Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:33 PM UTC

PDB ID	:	4V6G / pdb_00004v6g
Title	:	Initiation complex of 70S ribosome with two tRNAs and mRNA.
Authors	:	Jenner, L.B.; Yusupova, G.; Yusupov, M.
Deposited on	:	2009-07-10
Resolution	:	3.50 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
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

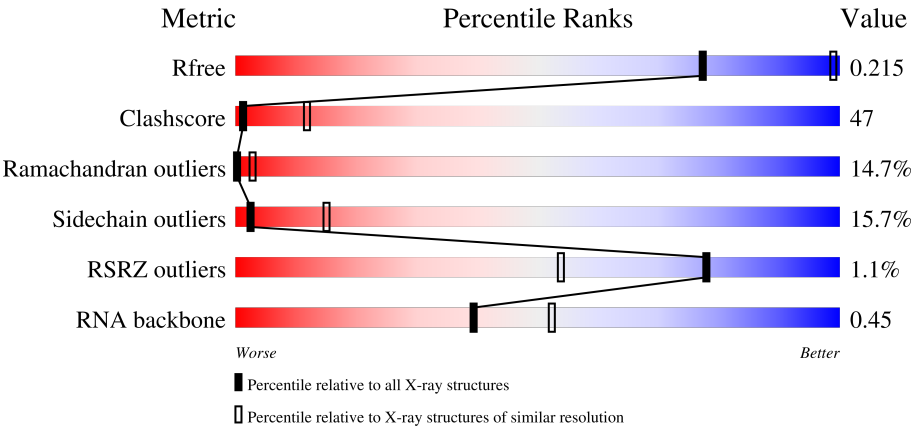
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 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}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)
RNA backbone	3983	1010 (3.98-3.02)

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	MG	AA	1661	-	-	-	X
54	MG	AA	1840	-	-	-	X
54	MG	AA	1909	-	-	-	X
54	MG	AA	1911	-	-	-	X
54	MG	DA	3091	-	-	-	X
54	MG	DA	3269	-	-	-	X
54	MG	DA	3326	-	-	-	X
54	MG	DA	3441	-	-	-	X
54	MG	DA	3512	-	-	-	X
54	MG	DA	3573	-	-	-	X
54	MG	DA	3668	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	MG	DA	3682	-	-	-	X

2 Entry composition (i)

There are 55 unique types of molecules in this entry. The entry contains 298428 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S RRNA (E.COLI NUMBERING).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1517	Total	C	N	O	P	0	0	0
			32600	14510	6032	10541	1517			
1	CA	1515	Total	C	N	O	P	0	0	0
			32554	14491	6025	10524	1514			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	1542	G	U	conflict	GB M26923.1
CA	1542	G	U	conflict	GB M26923.1

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AE	236	Total	C	N	O	S	0	0	0
			1915	1223	343	344	5			
2	CE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			
3	CF	205	Total	C	N	O	S	0	0	0
			1605	1011	313	280	1			

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

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

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

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AH	154	Total	C	N	O	S	0	0	0
			1178	743	221	210	4			
5	CH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AL	128	Total	C	N	O	S	0	0	0
			1018	644	198	175	1			
9	CL	127	Total	C	N	O		0	0	0
			1010	639	197	174				

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			
10	CM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AN	121	Total	C	N	O	S	0	0	0
			901	560	171	167	3			
11	CN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AO	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			
12	CO	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AP	118	Total	C	N	O	S	0	0	0
			937	579	193	163	2			
13	CP	121	Total	C	N	O	S	0	0	0
			964	597	199	166	2			

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	CR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			
16	CS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	CT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AU	71	Total	C	N	O	0	0	0
			585	373	116	96			
18	CU	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AV	82	Total	C	N	O	S	0	0	0
			656	419	121	114	2			
19	CV	84	Total	C	N	O	S	0	0	0
			674	430	126	116	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	CW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AX	25	Total	C	N	O	0	0	0
			217	134	52	31			
21	CX	25	Total	C	N	O	0	0	0
			217	134	52	31			

- Molecule 22 is a RNA chain called TRNA FMET (UNMODIFIED BASES).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AC	77	Total	C	N	O	P	0	0	0
			1640	732	298	534	76			
22	AD	77	Total	C	N	O	P	0	0	0
			1640	732	298	534	76			
22	CC	77	Total	C	N	O	P	0	0	0
			1640	732	298	534	76			
22	CD	77	Total	C	N	O	P	0	0	0
			1640	732	298	534	76			
22	CB	65	Total	C	N	O	P	0	0	0
			1385	618	250	453	64			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	A1	23	Total	C	N	O	P	0	0	0
			502	227	107	146	22			
23	C1	23	Total	C	N	O	P	0	0	0
			502	227	107	146	22			

- Molecule 24 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BA	2885	Total	C	N	O	P	0	0	0
			62134	27656	11622	19972	2884			
24	DA	2886	Total	C	N	O	P	0	0	0
			62151	27664	11620	19982	2885			

There are 29 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	?	-	U	deletion	GB AP008226.1
BA	?	-	U	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	G	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	?	-	C	deletion	GB AP008226.1
BA	654T	A	C	conflict	GB AP008226.1
BA	1058	U	G	conflict	GB AP008226.1
BA	1080	A	C	conflict	GB AP008226.1
DA	161	U	-	insertion	GB AP008226.1
DA	654A	A	G	conflict	GB AP008226.1
DA	?	-	G	deletion	GB AP008226.1
DA	?	-	G	deletion	GB AP008226.1
DA	?	-	C	deletion	GB AP008226.1
DA	?	-	A	deletion	GB AP008226.1
DA	654L	G	C	conflict	GB AP008226.1
DA	654T	A	C	conflict	GB AP008226.1
DA	1058	U	G	conflict	GB AP008226.1
DA	1080	A	C	conflict	GB AP008226.1

- Molecule 25 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BB	120	Total	C	N	O	P	0	0	0
			2572	1146	476	831	119			
25	DB	120	Total	C	N	O	P	0	0	0
			2573	1146	476	832	119			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	1M	A	-	insertion	GB X01554.1

- Molecule 26 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BD	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			
26	DD	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			

- Molecule 27 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
27	DE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			

- Molecule 28 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BF	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			
28	DF	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			

- Molecule 29 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
29	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 30 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			
30	DH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			

- Molecule 31 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
31	DK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

- Molecule 32 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
32	DM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 33 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
33	DN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 34 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			
34	DO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			

- Molecule 35 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
35	DP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 36 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	B0	117	Total	C	N	O	0	0	0
			960	599	202	159			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	D0	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 37 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BQ	111	Total	C	N	O	0	0	0
			882	556	176	150			
37	DQ	111	Total	C	N	O	0	0	0
			882	556	176	150			

- Molecule 38 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
38	DR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

- Molecule 39 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	B1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
39	D1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 40 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	B2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
40	D2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 41 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			
41	DS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			

- Molecule 42 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BT	92	Total	C	N	O	0	0	0
			725	471	131	123			
42	DT	92	Total	C	N	O	0	0	0
			725	471	131	123			

- Molecule 43 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			
43	DU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			

- Molecule 44 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BV	176	Total	C	N	O	S	0	0	0
			1404	897	252	252	3			
44	DV	172	Total	C	N	O	S	0	0	0
			1378	879	248	248	3			

- Molecule 45 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	B3	80	Total	C	N	O	S	0	0	0
			629	389	132	107	1			
45	D3	77	Total	C	N	O	S	0	0	0
			611	378	129	103	1			

- Molecule 46 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			
46	DZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			

- Molecule 47 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			
47	DW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			

- Molecule 48 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	BX	59	Total	C	N	O	0	0	0
			469	298	90	81			
48	DX	59	Total	C	N	O	0	0	0
			469	298	90	81			

- Molecule 49 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B4	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			
49	D4	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
50	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 51 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B6	48	Total	C	N	O	S	0	0	0
			417	259	86	68	4			
51	D6	49	Total	C	N	O	S	0	0	0
			424	264	87	69	4			

- Molecule 52 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	D7	49	Total 430	C 263	N 108	O 57	S 2	0	0	0

- Molecule 53 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B8	64	Total 517	C 331	N 102	O 82	S 2	0	0	0
53	D8	64	Total 517	C 331	N 102	O 82	S 2	0	0	0

- Molecule 54 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
54	AA	440	Total 440	Mg 440	0	0
54	AH	2	Total 2	Mg 2	0	0
54	AI	1	Total 1	Mg 1	0	0
54	AJ	1	Total 1	Mg 1	0	0
54	AK	1	Total 1	Mg 1	0	0
54	AL	2	Total 2	Mg 2	0	0
54	AO	1	Total 1	Mg 1	0	0
54	AP	1	Total 1	Mg 1	0	0
54	AQ	1	Total 1	Mg 1	0	0
54	AS	2	Total 2	Mg 2	0	0
54	AT	2	Total 2	Mg 2	0	0
54	AW	4	Total 4	Mg 4	0	0
54	AX	1	Total 1	Mg 1	0	0
54	AC	8	Total 8	Mg 8	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	AD	3	Total Mg 3 3	0	0
54	A1	1	Total Mg 1 1	0	0
54	BA	683	Total Mg 683 683	0	0
54	BB	26	Total Mg 26 26	0	0
54	BD	2	Total Mg 2 2	0	0
54	BE	7	Total Mg 7 7	0	0
54	BF	2	Total Mg 2 2	0	0
54	BG	1	Total Mg 1 1	0	0
54	BH	1	Total Mg 1 1	0	0
54	BK	1	Total Mg 1 1	0	0
54	BO	1	Total Mg 1 1	0	0
54	B0	2	Total Mg 2 2	0	0
54	BQ	1	Total Mg 1 1	0	0
54	BR	2	Total Mg 2 2	0	0
54	B1	1	Total Mg 1 1	0	0
54	BT	2	Total Mg 2 2	0	0
54	BU	5	Total Mg 5 5	0	0
54	B3	2	Total Mg 2 2	0	0
54	BZ	1	Total Mg 1 1	0	0
54	BW	1	Total Mg 1 1	0	0
54	B4	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	B5	1	Total Mg 1 1	0	0
54	B6	1	Total Mg 1 1	0	0
54	B8	1	Total Mg 1 1	0	0
54	CA	384	Total Mg 384 384	0	0
54	CG	1	Total Mg 1 1	0	0
54	CH	2	Total Mg 2 2	0	0
54	CK	2	Total Mg 2 2	0	0
54	CL	1	Total Mg 1 1	0	0
54	CM	1	Total Mg 1 1	0	0
54	CP	4	Total Mg 4 4	0	0
54	CQ	3	Total Mg 3 3	0	0
54	CR	1	Total Mg 1 1	0	0
54	CS	2	Total Mg 2 2	0	0
54	CT	1	Total Mg 1 1	0	0
54	CW	5	Total Mg 5 5	0	0
54	CX	2	Total Mg 2 2	0	0
54	CC	13	Total Mg 13 13	0	0
54	CD	26	Total Mg 26 26	0	0
54	C1	1	Total Mg 1 1	0	0
54	DA	905	Total Mg 905 905	0	0
54	DB	29	Total Mg 29 29	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	DD	3	Total Mg 3 3	0	0
54	DE	3	Total Mg 3 3	0	0
54	DF	1	Total Mg 1 1	0	0
54	DG	3	Total Mg 3 3	0	0
54	DH	4	Total Mg 4 4	0	0
54	DO	5	Total Mg 5 5	0	0
54	D0	5	Total Mg 5 5	0	0
54	DR	2	Total Mg 2 2	0	0
54	D1	6	Total Mg 6 6	0	0
54	D2	1	Total Mg 1 1	0	0
54	DS	1	Total Mg 1 1	0	0
54	DT	2	Total Mg 2 2	0	0
54	DU	6	Total Mg 6 6	0	0
54	D3	4	Total Mg 4 4	0	0
54	DZ	2	Total Mg 2 2	0	0
54	DW	2	Total Mg 2 2	0	0
54	D5	1	Total Mg 1 1	0	0
54	D6	2	Total Mg 2 2	0	0
54	D7	1	Total Mg 1 1	0	0

- Molecule 55 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	AA	2	Total Zn 2 2	0	0
55	AG	1	Total Zn 1 1	0	0
55	AQ	1	Total Zn 1 1	0	0
55	CG	1	Total Zn 1 1	0	0
55	CQ	1	Total Zn 1 1	0	0

SEQUENCE-PLOTS INFOmissingINFO

3 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.46Å 452.18Å 626.12Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 3.50 300.00 – 3.50	Depositor EDS
% Data completeness (in resolution range)	96.7 (300.00-3.50) 100.0 (300.00-3.50)	Depositor EDS
R_{merge}	0.28	Depositor
R_{sym}	0.18	Depositor
$< I/\sigma(I) >$ [1]	1.34 (at 3.01Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.213 , 0.252 0.212 , 0.215	Depositor DCC
R_{free} test set	22133 reflections (1.88%)	wwPDB-VP
Wilson B-factor (Å^2)	71.7	Xtriage
Anisotropy	0.113	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 61.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.40$, $< L^2 > = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	298428	wwPDB-VP
Average B, all atoms (Å^2)	106.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.33% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

4 Model quality (i)

4.1 Standard geometry (i)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	0.38	0/36490	0.80	103/56951 (0.2%)
1	CA	0.39	1/36439 (0.0%)	0.81	106/56872 (0.2%)
2	AE	0.41	0/1950	1.03	10/2630 (0.4%)
2	CE	0.41	0/1959	1.04	10/2642 (0.4%)
3	AF	0.45	0/1636	0.97	8/2205 (0.4%)
3	CF	0.43	0/1629	0.92	1/2195 (0.0%)
4	AG	0.52	0/1733	1.16	13/2318 (0.6%)
4	CG	0.50	0/1733	1.08	15/2318 (0.6%)
5	AH	0.47	0/1195	1.04	10/1609 (0.6%)
5	CH	0.45	0/1171	1.01	9/1576 (0.6%)
6	AI	0.48	0/856	0.99	2/1154 (0.2%)
6	CI	0.49	0/856	0.97	3/1154 (0.3%)
7	AJ	0.43	0/1276	1.06	10/1709 (0.6%)
7	CJ	0.42	0/1276	0.90	1/1709 (0.1%)
8	AK	0.43	0/1136	0.99	3/1527 (0.2%)
8	CK	0.49	0/1136	1.05	5/1527 (0.3%)
9	AL	0.41	0/1037	1.15	13/1389 (0.9%)
9	CL	0.39	0/1029	1.03	9/1379 (0.7%)
10	AM	0.43	0/814	1.04	6/1095 (0.5%)
10	CM	0.46	0/814	0.91	1/1095 (0.1%)
11	AN	0.47	0/916	1.12	6/1234 (0.5%)
11	CN	0.46	0/900	1.05	6/1213 (0.5%)
12	AO	0.50	0/991	1.05	5/1327 (0.4%)
12	CO	0.55	0/991	1.74	11/1327 (0.8%)
13	AP	0.64	2/947 (0.2%)	1.09	6/1270 (0.5%)
13	CP	0.42	0/974	1.04	9/1303 (0.7%)
14	AQ	0.43	0/501	1.04	4/664 (0.6%)
14	CQ	0.50	0/501	1.10	5/664 (0.8%)
15	AR	0.48	0/745	0.91	2/992 (0.2%)
15	CR	0.47	0/745	1.00	3/992 (0.3%)
16	AS	0.46	0/721	1.01	5/970 (0.5%)
16	CS	0.45	0/721	1.03	4/970 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AT	0.44	0/847	1.03	1/1131 (0.1%)
17	CT	0.42	0/847	1.06	6/1131 (0.5%)
18	AU	0.50	0/590	1.05	3/782 (0.4%)
18	CU	0.46	0/579	1.04	3/768 (0.4%)
19	AV	0.47	0/670	1.04	6/901 (0.7%)
19	CV	0.45	0/689	1.21	7/926 (0.8%)
20	AW	0.46	0/765	1.09	6/1007 (0.6%)
20	CW	0.41	0/765	1.09	5/1007 (0.5%)
21	AX	0.44	0/221	0.91	1/288 (0.3%)
21	CX	0.41	0/221	1.01	1/288 (0.3%)
22	AC	0.38	1/1832 (0.1%)	0.79	6/2855 (0.2%)
22	AD	0.36	1/1832 (0.1%)	0.72	3/2855 (0.1%)
22	CB	0.37	1/1547 (0.1%)	0.74	2/2411 (0.1%)
22	CC	0.41	1/1832 (0.1%)	0.80	2/2855 (0.1%)
22	CD	0.35	1/1832 (0.1%)	0.66	1/2855 (0.0%)
23	A1	0.40	0/567	0.89	1/884 (0.1%)
23	C1	0.36	0/567	0.85	2/884 (0.2%)
24	BA	0.45	8/69594 (0.0%)	0.89	251/108647 (0.2%)
24	DA	0.47	0/69611	0.93	293/108670 (0.3%)
25	BB	0.36	0/2877	0.74	4/4488 (0.1%)
25	DB	0.40	0/2878	0.82	6/4490 (0.1%)
26	BD	0.60	0/2165	1.17	21/2919 (0.7%)
26	DD	0.84	3/2165 (0.1%)	1.30	32/2919 (1.1%)
27	BE	0.54	0/1601	1.25	22/2160 (1.0%)
27	DE	0.62	0/1601	1.35	29/2160 (1.3%)
28	BF	0.53	0/1662	1.13	13/2249 (0.6%)
28	DF	0.62	0/1620	1.19	18/2194 (0.8%)
29	BG	0.42	0/1499	1.03	13/2016 (0.6%)
29	DG	0.47	0/1499	0.99	9/2016 (0.4%)
30	BH	0.48	0/1332	1.14	13/1802 (0.7%)
30	DH	0.57	0/1332	1.22	15/1802 (0.8%)
31	BK	0.47	0/1151	1.09	8/1558 (0.5%)
31	DK	0.54	0/1151	1.19	11/1558 (0.7%)
32	BM	0.48	0/1131	1.05	3/1525 (0.2%)
32	DM	0.54	0/1131	1.18	10/1525 (0.7%)
33	BN	0.59	0/943	1.07	3/1269 (0.2%)
33	DN	0.64	0/943	1.04	5/1269 (0.4%)
34	BO	0.54	0/1162	1.26	13/1544 (0.8%)
34	DO	0.63	1/1162 (0.1%)	1.37	17/1544 (1.1%)
35	BP	0.50	0/1143	1.11	12/1527 (0.8%)
35	DP	0.69	0/1143	1.34	19/1527 (1.2%)
36	B0	0.57	0/974	1.05	3/1302 (0.2%)
36	D0	0.55	0/982	1.17	10/1312 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
37	BQ	0.42	0/892	0.99	4/1187 (0.3%)
37	DQ	0.51	0/892	1.18	8/1187 (0.7%)
38	BR	0.51	0/1155	1.08	7/1542 (0.5%)
38	DR	0.56	0/1155	1.18	17/1542 (1.1%)
39	B1	0.48	0/982	1.11	8/1306 (0.6%)
39	D1	0.59	0/982	1.21	10/1306 (0.8%)
40	B2	0.56	0/790	1.21	7/1057 (0.7%)
40	D2	0.55	0/790	1.10	6/1057 (0.6%)
41	BS	0.58	0/911	1.07	3/1220 (0.2%)
41	DS	0.57	0/911	1.18	13/1220 (1.1%)
42	BT	0.53	0/739	1.09	4/993 (0.4%)
42	DT	0.62	0/739	1.14	5/993 (0.5%)
43	BU	0.65	0/798	1.28	11/1064 (1.0%)
43	DU	0.64	0/798	1.16	3/1064 (0.3%)
44	BV	0.49	0/1435	1.09	12/1947 (0.6%)
44	DV	0.60	1/1408 (0.1%)	1.07	10/1908 (0.5%)
45	B3	0.51	0/637	1.09	4/848 (0.5%)
45	D3	0.51	0/619	1.14	5/825 (0.6%)
46	BZ	0.53	0/770	1.13	6/1022 (0.6%)
46	DZ	0.58	0/770	1.20	9/1022 (0.9%)
47	BW	0.46	0/583	1.14	9/771 (1.2%)
47	DW	0.60	0/583	1.32	9/771 (1.2%)
48	BX	0.45	0/474	1.17	6/635 (0.9%)
48	DX	0.53	0/474	1.04	0/635
49	B4	0.57	0/594	1.23	12/795 (1.5%)
49	D4	0.46	0/594	1.24	10/795 (1.3%)
50	B5	0.52	0/473	1.13	5/639 (0.8%)
50	D5	0.64	0/473	1.22	6/639 (0.9%)
51	B6	0.49	0/424	1.07	3/565 (0.5%)
51	D6	0.53	0/431	1.06	3/575 (0.5%)
52	B7	0.61	0/438	1.05	0/575
52	D7	0.73	0/438	1.19	2/575 (0.3%)
53	B8	0.61	0/525	1.36	10/691 (1.4%)
53	D8	0.79	0/525	1.40	9/691 (1.3%)
All	All	0.46	21/321675 (0.0%)	0.94	1549/481462 (0.3%)

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	AA	0	54

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	CA	0	53
22	AC	0	2
22	AD	0	2
22	CD	0	1
23	A1	0	3
23	C1	0	3
24	BA	0	136
24	DA	0	153
25	BB	0	4
25	DB	0	5
All	All	0	416

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	654(R)	C	O5'-C5'	24.60	1.79	1.42
26	DD	236	GLY	C-N	14.32	1.53	1.33
24	BA	654(R)	C	N1-C2	14.23	1.68	1.40
26	DD	239	ARG	CA-C	-12.97	1.35	1.52
13	AP	117	VAL	CA-CB	11.38	1.70	1.54
24	BA	654(R)	C	P-O5'	7.41	1.70	1.59
44	DV	139	VAL	CA-C	6.82	1.60	1.52
24	BA	654(R)	C	C2-N3	6.63	1.49	1.35
24	BA	654(R)	C	C4-C5	6.22	1.55	1.43
24	BA	654(R)	C	N3-C4	5.88	1.45	1.33
24	BA	654(R)	C	C5'-C4'	5.87	1.60	1.51
24	BA	654(R)	C	C5-C6	5.82	1.46	1.34
1	CA	792	A	O5'-C5'	-5.67	1.34	1.42
13	AP	118	ALA	CA-CB	-5.50	1.44	1.53
26	DD	239	ARG	CA-CB	5.20	1.62	1.53
22	CD	17(A)	C	C4-N4	-5.20	1.23	1.33
22	CB	18	C	C4-N4	-5.17	1.23	1.33
22	CC	17(A)	C	C4-N4	-5.14	1.23	1.33
22	AD	17(A)	C	C4-N4	-5.12	1.23	1.33
22	AC	17(A)	C	C4-N4	-5.07	1.23	1.33
34	DO	19	VAL	CA-C	5.05	1.59	1.52

All (1549) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	CO	47	LYS	CA-C-N	31.27	158.93	119.84
12	CO	47	LYS	C-N-CA	31.27	158.93	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	945	A	C1'-O4'-C4'	-19.36	90.34	109.70
24	DA	1379	A	C1'-O4'-C4'	-19.32	90.58	109.90
24	DA	945	A	C1'-O4'-C4'	-18.84	91.06	109.90
24	DA	2286	A	C1'-O4'-C4'	-16.43	93.27	109.70
24	DA	2311	A	C1'-O4'-C4'	-16.01	93.69	109.70
24	BA	2286	A	C1'-O4'-C4'	-15.23	94.47	109.70
34	DO	59	LEU	N-CA-C	-14.64	91.36	111.56
49	D4	39	CYS	N-CA-C	-13.55	96.01	112.54
24	DA	2468	G	C1'-O4'-C4'	-13.04	96.66	109.70
24	DA	945	A	N9-C1'-C2'	12.85	131.28	112.00
24	BA	654(R)	C	O4'-C1'-C2'	-12.57	95.03	107.60
24	BA	945	A	N9-C1'-C2'	12.54	132.82	114.00
12	CO	47	LYS	C-N-CD	-12.07	75.50	125.00
39	B1	96	ALA	N-CA-C	-11.95	98.97	113.19
27	DE	58	ARG	N-CA-C	-11.80	95.24	113.89
24	DA	2426	A	C2'-C3'-O3'	11.62	126.93	109.50
47	DW	5	GLU	N-CA-C	-11.60	99.61	113.88
4	AG	12	CYS	N-CA-C	-11.57	97.30	112.34
24	BA	654(R)	C	P-O5'-C5'	11.50	138.16	120.90
39	D1	96	ALA	N-CA-C	-11.46	98.72	113.17
24	BA	1379	A	C1'-O4'-C4'	-11.42	98.28	109.70
4	AG	10	ARG	N-CA-C	-11.40	99.38	113.28
32	DM	114	ARG	N-CA-C	-11.38	96.08	110.19
24	DA	2286	A	N9-C1'-C2'	11.37	131.06	114.00
4	CG	12	CYS	N-CA-C	-11.32	97.62	112.34
24	DA	1992	G	C2'-C3'-O3'	11.09	126.14	109.50
24	BA	1992	G	C2'-C3'-O3'	10.99	125.98	109.50
30	BH	48	GLY	N-CA-C	-10.96	101.44	114.48
1	CA	792	A	C1'-O4'-C4'	-10.95	98.75	109.70
24	DA	2307	G	C1'-O4'-C4'	-10.93	98.77	109.70
53	B8	54	GLU	N-CA-C	-10.85	99.50	113.17
24	BA	782	A	C2'-C3'-O3'	-10.77	93.35	109.50
24	DA	1781	C	C2'-C3'-O3'	10.68	125.53	109.50
24	BA	654(R)	C	O4'-C1'-N1	-10.64	92.54	108.50
51	D6	29	ASN	N-CA-C	-10.57	99.13	113.30
24	DA	685	A	C2'-C3'-O3'	10.53	125.30	109.50
38	BR	108	ARG	N-CA-C	-10.38	100.62	113.28
35	DP	89	ASN	N-CA-C	-10.33	100.47	112.87
12	CO	119	LYS	N-CA-C	-10.30	95.28	110.52
9	AL	26	VAL	N-CA-C	10.20	121.26	108.82
26	BD	238	GLY	N-CA-C	-10.09	89.26	113.18
27	DE	21	VAL	C-N-CD	-10.09	98.41	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AQ	7	ILE	N-CA-C	-10.08	100.37	112.98
3	AF	125	GLU	N-CA-C	-10.06	101.01	113.28
24	BA	2286	A	N9-C1'-C2'	10.02	129.03	114.00
35	DP	81	VAL	N-CA-C	9.99	130.12	109.34
35	DP	81	VAL	CB-CA-C	-9.98	94.93	111.29
2	CE	25	ASN	CA-C-N	9.83	132.13	119.84
2	CE	25	ASN	C-N-CA	9.83	132.13	119.84
24	BA	2092	U	C1'-O4'-C4'	-9.80	99.90	109.70
24	BA	2490	G	N9-C1'-C2'	9.79	128.68	114.00
38	BR	13	ARG	N-CA-C	-9.77	98.46	113.89
35	BP	18	LYS	N-CA-C	9.72	121.57	110.97
24	DA	728	G	C2'-C3'-O3'	9.70	124.05	109.50
24	DA	2311	A	N9-C1'-C2'	9.67	128.51	114.00
47	BW	5	GLU	N-CA-C	-9.63	100.09	112.23
34	DO	13	ASN	N-CA-C	-9.60	101.58	113.20
39	B1	51	LYS	N-CA-C	-9.58	101.02	112.89
28	BF	80	ALA	N-CA-C	-9.56	98.07	109.93
2	AE	16	HIS	N-CA-C	9.54	122.64	110.33
18	AU	24	ALA	N-CA-C	-9.51	101.79	113.97
40	B2	81	TYR	N-CA-C	9.41	124.11	109.52
1	AA	266	G	C2'-C3'-O3'	9.38	123.57	109.50
11	AN	38	ASN	CA-C-N	9.33	131.51	119.84
11	AN	38	ASN	C-N-CA	9.33	131.51	119.84
24	BA	1929	G	N9-C1'-C2'	9.30	127.95	114.00
43	BU	23	ARG	N-CA-C	-9.28	91.03	110.80
24	BA	1653	G	C2'-C3'-O3'	9.27	123.40	109.50
28	DF	197	ASP	N-CA-C	-9.24	98.73	110.19
24	DA	1311	G	C2'-C3'-O3'	9.22	123.32	109.50
1	CA	792	A	O4'-C1'-N9	9.20	122.00	108.20
12	CO	26	ALA	N-CA-C	-9.18	102.65	113.21
49	D4	45	GLY	N-CA-C	-9.15	102.69	115.32
27	BE	125	GLY	CA-C-N	9.11	128.87	119.76
27	BE	125	GLY	C-N-CA	9.11	128.87	119.76
24	DA	1379	A	O4'-C1'-N9	9.08	122.12	108.50
46	BZ	11	ARG	N-CA-C	9.05	116.12	108.07
11	CN	40	ILE	N-CA-C	-9.02	103.81	111.56
37	DQ	110	LEU	CB-CA-C	-8.99	105.00	117.23
46	DZ	3	LYS	N-CA-C	-8.93	99.72	110.44
7	AJ	154	TYR	N-CA-C	-8.92	102.41	113.38
24	BA	2391	G	C2'-C3'-O3'	8.92	122.88	109.50
1	AA	1498	U	C2'-C3'-O3'	8.91	122.87	109.50
44	DV	115	GLY	N-CA-C	8.90	134.27	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	DA	1248	G	N9-C1'-C2'	8.89	127.33	114.00
2	AE	30	ARG	N-CA-C	-8.85	101.15	113.37
34	BO	13	ASN	N-CA-C	-8.85	102.39	113.01
39	D1	97	ASP	N-CA-C	-8.84	103.60	112.97
1	AA	266	G	N9-C1'-C2'	8.82	127.24	114.00
24	BA	2033	A	C2'-C3'-O3'	8.82	122.73	109.50
26	DD	91	ARG	N-CA-C	-8.79	98.68	110.55
52	D7	47	ARG	N-CA-C	8.79	119.53	108.19
1	AA	1528	U	C2'-C3'-O3'	8.76	122.65	109.50
35	DP	125	LEU	CA-C-N	8.72	130.74	119.84
35	DP	125	LEU	C-N-CA	8.72	130.74	119.84
39	D1	98	LEU	N-CA-C	-8.72	102.44	113.43
34	BO	62	LEU	CA-C-N	8.72	130.74	119.84
34	BO	62	LEU	C-N-CA	8.72	130.74	119.84
26	BD	13	ARG	N-CA-C	-8.70	103.51	114.56
24	BA	1342	A	C1'-O4'-C4'	-8.70	101.00	109.70
24	BA	1699	G	C2'-C3'-O3'	8.63	122.44	109.50
53	D8	36	LYS	N-CA-C	-8.63	96.77	110.14
24	DA	2439	A	C2'-C3'-O3'	8.61	122.41	109.50
8	CK	79	VAL	N-CA-C	-8.59	102.04	110.72
24	DA	2517	C	C2'-C3'-O3'	8.57	122.36	109.50
24	BA	2447	G	C2'-C3'-O3'	8.48	122.22	109.50
36	D0	9	LYS	N-CA-C	-8.48	94.70	108.52
27	DE	23	VAL	N-CA-C	8.45	120.96	108.96
24	BA	1925	C	N1-C1'-C2'	-8.43	99.35	112.00
24	BA	1966	A	N9-C1'-C2'	8.43	126.65	114.00
1	CA	1528	U	C2'-C3'-O3'	8.43	122.14	109.50
38	DR	59	THR	N-CA-C	-8.43	97.36	110.42
24	DA	1980	G	C2'-C3'-O3'	8.40	122.10	109.50
16	CS	3	LYS	N-CA-C	8.37	120.65	108.86
38	DR	7	ILE	N-CA-C	-8.35	101.55	110.23
19	AV	65	ASN	N-CA-C	-8.31	103.66	113.38
46	DZ	79	GLY	N-CA-C	-8.31	93.49	113.18
1	CA	792	A	C3'-C2'-O2'	-8.30	102.14	114.60
24	BA	1616	A	N9-C1'-C2'	8.27	126.41	114.00
28	DF	75	HIS	N-CA-C	8.26	122.33	109.52
38	DR	13	ARG	N-CA-C	-8.26	102.64	114.12
33	DN	107	ARG	N-CA-C	-8.23	102.26	111.07
20	AW	12	ALA	N-CA-C	-8.19	102.31	112.88
26	DD	193	VAL	N-CA-C	8.17	120.12	109.58
24	BA	1247	A	N9-C1'-C2'	8.15	126.23	114.00
24	DA	1653	G	C2'-C3'-O3'	8.10	121.65	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	B8	42	ARG	N-CA-C	-8.08	101.22	112.45
45	D3	38	VAL	N-CA-C	8.08	119.01	108.35
24	DA	793	A	C4'-C3'-O3'	-8.07	97.30	109.40
24	BA	2820	A	N9-C1'-C2'	8.06	126.09	114.00
28	DF	65	TRP	CA-C-N	8.06	129.91	119.84
28	DF	65	TRP	C-N-CA	8.06	129.91	119.84
24	DA	2791	C	N1-C1'-C2'	8.05	126.08	114.00
30	DH	19	VAL	N-CA-C	8.05	117.89	106.53
47	BW	6	VAL	N-CA-C	8.04	118.09	110.53
49	B4	63	TYR	N-CA-C	-8.04	102.74	112.54
40	B2	49	THR	CA-C-N	-8.03	109.80	119.84
40	B2	49	THR	C-N-CA	-8.03	109.80	119.84
34	BO	65	ARG	N-CA-C	-8.03	101.67	112.26
43	BU	12	THR	N-CA-C	-8.01	98.60	110.46
42	BT	38	GLU	N-CA-C	-8.01	103.62	113.15
24	DA	508	G	N9-C1'-C2'	8.01	124.01	112.00
43	DU	20	TYR	N-CA-C	-7.98	102.03	113.21
24	DA	72	U	N1-C1'-C2'	7.97	125.95	114.00
24	DA	1781	C	N1-C1'-C2'	7.96	125.95	114.00
24	BA	654(R)	C	C2'-C3'-O3'	7.95	125.63	113.70
53	D8	45	GLY	N-CA-C	-7.95	101.84	112.81
29	BG	20	ILE	N-CA-C	-7.94	101.12	111.05
1	CA	575	G	N9-C1'-C2'	7.91	125.86	114.00
44	DV	140	ASP	N-CA-C	7.91	122.12	109.79
1	AA	1124	G	N9-C1'-C2'	7.86	123.79	112.00
24	BA	974(A)	C	N1-C1'-C2'	7.85	125.77	114.00
24	BA	2702	U	N1-C1'-C2'	7.85	123.77	112.00
24	BA	2490	G	C1'-O4'-C4'	-7.83	101.87	109.70
4	AG	180	GLY	N-CA-C	-7.83	105.60	115.31
24	DA	775	G	C2'-C3'-O3'	-7.83	97.76	109.50
1	AA	281	G	C4'-C3'-O3'	-7.81	101.29	113.00
20	CW	9	ASN	N-CA-C	7.81	122.03	110.48
33	DN	112	MET	N-CA-C	7.81	119.48	110.97
24	DA	945	A	C3'-C2'-C1'	-7.81	93.49	101.30
50	D5	6	VAL	CA-C-N	7.80	129.03	119.98
50	D5	6	VAL	C-N-CA	7.80	129.03	119.98
31	DK	14	ASP	N-CA-C	7.80	118.91	108.38
35	DP	5	ARG	N-CA-C	-7.78	96.88	109.96
40	B2	14	VAL	N-CA-C	7.77	120.68	108.87
24	BA	686	G	C2'-C3'-O3'	7.76	121.14	109.50
24	BA	1652	A	C2'-C3'-O3'	7.75	125.32	113.70
49	D4	63	TYR	N-CA-C	-7.74	102.84	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	788	A	N9-C1'-C2'	7.74	125.60	114.00
1	CA	115	G	C2'-C3'-O3'	7.72	121.09	109.50
1	CA	1064	G	N9-C1'-C2'	7.72	123.59	112.00
36	D0	30	THR	N-CA-C	-7.72	105.82	114.62
30	DH	100	GLY	N-CA-C	-7.71	99.75	111.24
47	DW	14	ARG	N-CA-C	-7.71	99.87	110.35
24	DA	2609	U	N1-C1'-C2'	7.70	125.55	114.00
15	CR	78	TYR	N-CA-C	-7.69	101.32	111.24
24	BA	2791	C	N1-C1'-C2'	7.69	125.53	114.00
26	BD	107	ALA	N-CA-C	7.68	120.80	109.50
17	CT	57	VAL	N-CA-C	7.62	118.11	108.82
1	CA	1498	U	C2'-C3'-O3'	7.61	120.92	109.50
41	BS	85	VAL	N-CA-C	7.61	118.45	106.88
32	DM	116	LEU	N-CA-C	-7.60	102.65	112.23
4	CG	36	ARG	CA-C-N	7.60	128.56	120.12
4	CG	36	ARG	C-N-CA	7.60	128.56	120.12
24	BA	421	U	N1-C1'-C2'	7.60	125.40	114.00
24	DA	2848	G	C2'-C3'-O3'	7.60	120.90	109.50
51	D6	28	ARG	N-CA-C	7.60	120.42	108.79
11	CN	123	LYS	N-CA-C	-7.59	102.60	111.03
26	DD	251	GLY	N-CA-C	7.57	126.70	115.64
1	AA	717	C	C4'-C3'-O3'	-7.57	101.64	113.00
39	D1	70	ARG	N-CA-C	-7.57	103.77	113.16
27	DE	185	LYS	N-CA-C	7.55	119.89	109.54
30	DH	157	TYR	N-CA-C	-7.55	103.14	112.88
24	DA	531	C	C2'-C3'-O3'	-7.54	98.19	109.50
1	AA	575	G	C2'-C3'-O3'	7.53	120.80	109.50
1	AA	190	G	N9-C1'-C2'	7.53	123.30	112.00
47	DW	21	LEU	N-CA-C	-7.51	103.03	111.07
53	D8	38	GLY	N-CA-C	-7.51	103.31	113.37
53	B8	26	LYS	N-CA-C	-7.51	99.41	110.52
34	BO	90	ARG	N-CA-C	-7.50	106.06	114.62
28	BF	83	PHE	N-CA-C	7.50	122.03	111.30
12	CO	58	VAL	N-CA-C	7.50	118.87	107.77
24	DA	442	G	C2'-C3'-O3'	-7.50	98.26	109.50
24	DA	249	C	N1-C1'-C2'	7.49	125.23	114.00
31	DK	63	ALA	N-CA-C	-7.49	104.17	113.38
34	DO	26	GLY	N-CA-C	-7.49	98.59	111.47
9	AL	33	PHE	N-CA-C	-7.48	102.61	112.34
9	AL	20	ARG	CA-C-N	7.48	129.19	119.84
9	AL	20	ARG	C-N-CA	7.48	129.19	119.84
24	DA	1252	G	N9-C1'-C2'	7.45	123.18	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	DW	41	ILE	N-CA-C	-7.43	103.32	112.76
1	CA	792	A	P-O3'-C3'	7.43	131.35	120.20
24	DA	2866	U	C2'-C3'-O3'	7.43	120.64	109.50
1	AA	115	G	C2'-C3'-O3'	7.42	120.64	109.50
5	CH	11	ILE	N-CA-C	7.42	117.91	111.90
24	DA	739	G	N9-C1'-C2'	7.41	125.12	114.00
44	BV	94	GLU	C-N-CD	-7.41	94.62	125.00
45	D3	17	GLN	N-CA-C	7.40	121.40	108.75
24	DA	70	G	N9-C1'-C2'	7.39	125.09	114.00
24	BA	2275	C	C2'-C3'-O3'	7.38	120.56	109.50
24	BA	457	A	N9-C1'-C2'	7.37	125.06	114.00
24	DA	270(Z)	U	C4'-C3'-O3'	-7.37	101.94	113.00
30	DH	117	PRO	N-CA-C	7.37	119.69	110.70
24	DA	323	G	C2'-C3'-O3'	-7.36	98.45	109.50
24	DA	1252	G	C4'-C3'-O3'	-7.35	101.97	113.00
27	BE	87	GLU	N-CA-C	-7.34	103.21	113.20
27	BE	65	GLY	N-CA-C	-7.33	103.10	115.34
24	DA	1130	U	C2'-C3'-O3'	7.33	120.49	109.50
9	AL	52	ALA	N-CA-C	-7.31	103.83	112.89
40	D2	49	THR	CA-C-N	-7.30	110.71	119.84
40	D2	49	THR	C-N-CA	-7.30	110.71	119.84
10	AM	24	VAL	N-CA-C	-7.30	105.89	112.90
23	C1	11	U	C2'-C3'-O3'	7.30	120.44	109.50
43	BU	26	LYS	N-CA-C	-7.29	101.12	110.53
16	CS	68	ASP	N-CA-C	-7.29	102.35	112.12
24	DA	2681	C	N1-C1'-C2'	7.27	122.91	112.00
26	DD	43	ARG	N-CA-C	7.27	122.00	113.20
1	CA	511	C	N1-C1'-C2'	7.27	124.90	114.00
1	AA	315	A	C4'-C3'-O3'	-7.26	102.10	113.00
42	DT	81	VAL	N-CA-C	7.26	119.53	108.71
30	DH	139	GLN	N-CA-C	-7.26	103.37	111.28
17	CT	60	ILE	N-CA-C	7.25	118.57	108.12
1	AA	575	G	N9-C1'-C2'	7.25	124.88	114.00
24	BA	479	A	C4'-C3'-O3'	7.25	120.27	109.40
53	D8	54	GLU	N-CA-C	-7.25	102.56	111.33
29	BG	162	THR	N-CA-C	-7.23	105.30	112.97
39	D1	76	TYR	N-CA-C	-7.23	102.43	111.11
9	CL	63	ILE	N-CA-C	7.23	118.47	107.77
12	CO	44	THR	CA-C-N	7.22	128.87	119.84
12	CO	44	THR	C-N-CA	7.22	128.87	119.84
26	DD	53	PHE	N-CA-C	7.21	121.65	112.86
47	DW	16	LEU	N-CA-C	-7.21	95.45	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	DA	512	G	C4'-C3'-O3'	-7.19	102.21	113.00
47	BW	31	GLU	N-CA-C	-7.19	103.14	110.97
1	CA	372	C	N1-C1'-C2'	7.19	122.78	112.00
24	DA	532	A	C4'-C3'-O3'	-7.19	98.62	109.40
4	CG	112	VAL	N-CA-C	7.18	117.27	110.30
1	AA	1506	U	C2'-C3'-O3'	7.17	120.26	109.50
34	DO	112	LEU	N-CA-C	7.17	121.35	109.46
14	CQ	53	LEU	CA-C-N	7.15	127.56	119.83
14	CQ	53	LEU	C-N-CA	7.15	127.56	119.83
24	DA	788	A	N9-C1'-C2'	7.14	124.71	114.00
1	CA	484	G	C2'-C3'-O3'	7.14	120.21	109.50
24	BA	788	A	C2'-C3'-O3'	7.14	120.21	109.50
13	CP	11	ARG	N-CA-C	7.14	117.94	107.88
24	BA	654(R)	C	C1'-O4'-C4'	-7.13	102.77	109.90
34	BO	92	GLU	N-CA-C	7.13	120.28	109.23
24	DA	587	C	C2'-C3'-O3'	7.12	120.19	109.50
4	CG	13	ARG	N-CA-C	7.12	122.02	113.12
24	DA	271(B)	G	C2'-C3'-O3'	7.12	120.18	109.50
10	AM	79	ARG	N-CA-C	-7.12	104.48	113.02
19	CV	6	LYS	N-CA-C	-7.12	95.65	110.80
24	BA	2866	U	N1-C1'-C2'	7.11	122.67	112.00
1	AA	517	G	C4'-C3'-O3'	-7.11	102.34	113.00
43	BU	19	LYS	CB-CA-C	-7.11	108.39	116.63
26	BD	107	ALA	CA-C-N	7.10	127.27	120.31
26	BD	107	ALA	C-N-CA	7.10	127.27	120.31
27	DE	168	MET	N-CA-C	7.10	121.09	109.94
53	B8	23	VAL	N-CA-C	7.10	118.96	108.45
2	AE	120	ALA	N-CA-C	-7.10	104.98	112.93
52	D7	19	ARG	N-CA-C	-7.09	103.59	111.82
19	CV	36	ARG	N-CA-C	-7.09	104.60	113.18
24	DA	2820	A	N9-C1'-C2'	7.08	124.63	114.00
25	BB	34	U	C2'-C3'-O3'	-7.08	103.08	113.70
29	BG	53	LEU	N-CA-C	-7.08	104.45	113.23
38	BR	14	TYR	N-CA-C	-7.08	104.53	113.02
28	DF	203	GLN	N-CA-C	-7.08	103.26	110.97
1	AA	511	C	N1-C1'-C2'	7.07	124.60	114.00
44	BV	106	GLY	N-CA-C	-7.07	104.86	115.32
13	AP	104	ARG	N-CA-C	-7.06	103.51	111.07
24	BA	1311	G	C4'-C3'-O3'	-7.06	102.41	113.00
24	DA	1944	U	C2'-C3'-O3'	-7.04	98.93	109.50
24	DA	2031	A	N9-C1'-C2'	7.04	122.57	112.00
1	CA	305	G	C2'-C3'-O3'	-7.04	103.14	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	CL	86	VAL	N-CA-C	-7.04	102.42	112.35
24	DA	457	A	N9-C1'-C2'	7.00	124.50	114.00
24	DA	2490	G	N9-C1'-C2'	7.00	124.50	114.00
18	AU	47	THR	N-CA-C	-7.00	102.59	113.02
24	BA	1937	A	C2'-C3'-O3'	7.00	120.00	109.50
53	B8	28	GLY	N-CA-C	-7.00	105.55	114.37
43	BU	81	LYS	CA-C-N	7.00	128.59	119.84
43	BU	81	LYS	C-N-CA	7.00	128.59	119.84
24	DA	1667	G	N9-C1'-C2'	6.99	122.49	112.00
18	CU	50	ILE	N-CA-C	-6.99	100.56	109.58
35	BP	31	ASP	N-CA-C	6.99	118.59	110.97
24	DA	2266	A	N9-C1'-C2'	6.99	124.48	114.00
3	AF	154	SER	N-CA-C	6.98	122.30	107.70
24	DA	1265	A	C4'-C3'-O3'	-6.98	102.53	113.00
15	CR	9	GLN	N-CA-C	-6.98	103.60	111.07
24	DA	1397	U	C2'-C3'-O3'	6.98	119.97	109.50
24	DA	2426	A	N9-C1'-C2'	6.97	124.46	114.00
43	BU	79	CYS	N-CA-C	6.97	122.37	107.67
24	DA	434	U	N1-C1'-C2'	6.96	124.44	114.00
24	DA	529	A	C4'-C3'-O3'	-6.95	98.97	109.40
53	B8	39	LYS	N-CA-C	-6.95	99.74	110.10
1	CA	121	C	C2'-C3'-O3'	-6.95	99.07	109.50
27	DE	188	VAL	CA-C-N	6.95	128.52	119.84
27	DE	188	VAL	C-N-CA	6.95	128.52	119.84
24	DA	2345	G	N9-C1'-C2'	6.94	124.41	114.00
24	BA	1800	C	N1-C1'-C2'	6.93	124.39	114.00
1	AA	5	U	C2'-C3'-O3'	6.92	119.88	109.50
24	BA	2458	G	N9-C1'-C2'	6.92	124.38	114.00
33	DN	90	GLN	N-CA-C	-6.92	104.45	113.17
53	B8	6	THR	N-CA-C	6.92	121.81	113.23
24	BA	805	G	C2'-C3'-O3'	-6.91	99.13	109.50
31	DK	135	GLU	N-CA-C	6.91	125.53	110.80
24	BA	531	C	C2'-C3'-O3'	-6.90	99.15	109.50
7	AJ	78	ARG	N-CA-C	6.90	121.41	108.65
24	DA	199	A	N9-C1'-C2'	6.89	124.34	114.00
35	DP	10	ARG	N-CA-C	-6.89	99.08	110.17
24	DA	2468	G	O4'-C1'-N9	6.88	118.52	108.20
25	DB	24	G	C2'-C3'-O3'	-6.88	103.38	113.70
41	DS	9	TYR	N-CA-C	6.87	120.99	112.47
1	AA	717	C	N1-C1'-C2'	6.87	122.30	112.00
20	AW	70	SER	N-CA-C	-6.87	103.60	113.21
24	DA	2391	G	C2'-C3'-O3'	6.87	119.80	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	DV	47	VAL	N-CA-C	6.86	116.87	110.42
24	BA	1131	G	C2'-C3'-O3'	6.86	119.78	109.50
39	B1	81	HIS	N-CA-C	-6.86	102.92	112.45
37	DQ	110	LEU	N-CA-C	6.85	120.11	108.67
24	DA	776	G	C4'-C3'-O3'	6.85	119.67	109.40
24	DA	1567	A	C2'-C3'-O3'	6.85	119.77	109.50
24	DA	1131	G	N9-C1'-C2'	6.84	124.26	114.00
1	CA	119	A	C2'-C3'-O3'	6.84	119.76	109.50
24	DA	2286	A	C2'-C3'-O3'	6.84	119.76	109.50
24	BA	2835	A	N9-C1'-C2'	6.83	124.25	114.00
24	DA	1698	A	C2'-C3'-O3'	6.83	119.74	109.50
32	DM	71	ILE	N-CA-C	6.83	117.73	108.17
35	DP	116	GLU	N-CA-C	-6.83	103.29	111.69
24	BA	227	A	C2'-C3'-O3'	6.82	119.73	109.50
1	CA	129(A)	G	C2'-C3'-O3'	-6.82	103.47	113.70
1	AA	818	G	N9-C1'-C2'	6.82	122.23	112.00
1	AA	595	G	N9-C1'-C2'	6.81	122.22	112.00
12	CO	48	PRO	CA-N-CD	-6.81	102.47	112.00
24	BA	1819	A	C2'-C3'-O3'	6.80	119.70	109.50
6	CI	60	PHE	N-CA-C	6.80	120.59	110.52
14	CQ	42	ILE	N-CA-C	-6.80	105.21	111.67
24	DA	1253	A	N9-C1'-C2'	6.79	124.19	114.00
46	BZ	25	LYS	N-CA-C	-6.79	103.34	111.69
24	DA	1427	A	C2'-C3'-O3'	6.79	119.68	109.50
38	DR	80	SER	CA-C-N	6.79	126.47	119.82
38	DR	80	SER	C-N-CA	6.79	126.47	119.82
31	DK	27	ARG	N-CA-C	6.78	121.26	113.19
34	DO	25	SER	N-CA-C	-6.78	96.35	110.80
1	CA	993	G	N9-C1'-C2'	6.78	122.17	112.00
53	B8	41	ILE	N-CA-C	-6.77	95.25	109.34
34	BO	52	GLU	CA-C-O	6.77	121.86	117.94
28	DF	24	LEU	CA-C-N	6.76	128.30	119.84
28	DF	24	LEU	C-N-CA	6.76	128.30	119.84
43	BU	54	LYS	N-CA-C	-6.76	100.43	110.23
24	BA	2776	A	C2'-C3'-O3'	6.75	119.63	109.50
24	BA	1668	A	C2'-C3'-O3'	-6.75	99.38	109.50
26	DD	198	ASN	N-CA-C	-6.73	102.19	111.28
24	DA	503	A	C2'-C3'-O3'	6.73	119.59	109.50
24	BA	1694	C	C2'-C3'-O3'	6.72	119.58	109.50
35	DP	46	GLN	N-CA-C	-6.72	105.08	113.55
1	AA	595	G	C4'-C3'-O3'	-6.72	102.92	113.00
24	DA	2060	A	C2'-C3'-O3'	6.71	119.57	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	CU	87	ARG	N-CA-C	6.71	118.76	110.91
39	D1	81	HIS	N-CA-C	-6.71	103.89	111.07
24	BA	2439	A	C2'-C3'-O3'	6.71	119.56	109.50
1	AA	1345	U	C4'-C3'-O3'	-6.70	102.95	113.00
24	BA	945	A	C3'-C2'-C1'	-6.70	94.80	101.50
1	CA	64	G	C2'-C3'-O3'	-6.70	103.65	113.70
29	BG	46	ALA	N-CA-C	-6.69	105.19	113.15
24	DA	2797	U	N1-C1'-C2'	6.68	122.02	112.00
5	CH	99	GLY	N-CA-C	-6.68	102.21	111.76
24	BA	2517	C	N1-C1'-C2'	6.67	122.01	112.00
41	BS	101	SER	N-CA-C	6.67	119.56	109.41
38	DR	111	ARG	N-CA-C	-6.67	99.38	109.79
26	DD	223	GLY	N-CA-C	-6.67	104.42	112.49
24	DA	249	C	C2'-C3'-O3'	-6.66	99.51	109.50
24	BA	1311	G	N9-C1'-C2'	6.66	121.99	112.00
24	DA	1385	G	N9-C1'-C2'	6.66	123.99	114.00
35	BP	92	GLY	N-CA-C	6.66	118.90	110.38
7	AJ	143	ARG	N-CA-C	-6.65	103.72	110.97
36	D0	76	VAL	N-CA-C	-6.65	102.74	111.05
24	BA	1252	G	N9-C1'-C2'	6.64	123.97	114.00
47	BW	64	LEU	N-CA-C	-6.64	104.07	111.71
51	D6	11	LEU	N-CA-C	6.64	120.35	109.72
24	BA	72	U	N1-C1'-C2'	6.64	123.96	114.00
24	BA	386	G	N9-C1'-C2'	6.64	123.96	114.00
37	DQ	15	ARG	N-CA-C	-6.64	103.53	111.69
1	AA	992	U	C2'-C3'-O3'	6.63	119.45	109.50
17	CT	62	SER	N-CA-C	6.63	116.80	108.45
24	DA	627	A	C4'-C3'-O3'	6.62	119.33	109.40
1	AA	703	G	C4'-C3'-O3'	-6.61	103.08	113.00
24	BA	1585	C	C2'-C3'-O3'	6.61	119.41	109.50
1	CA	1502	A	N9-C1'-C2'	6.61	123.91	114.00
35	DP	65	PHE	N-CA-C	6.61	121.87	113.55
24	BA	1781	C	N1-C1'-C2'	6.61	123.91	114.00
49	B4	65	ASP	N-CA-C	-6.60	104.08	111.28
24	DA	2702	U	N1-C1'-C2'	6.59	121.89	112.00
15	AR	78	TYR	N-CA-C	-6.59	103.29	112.45
24	BA	2405	G	C4'-C3'-O3'	-6.59	103.11	113.00
30	BH	113	VAL	N-CA-C	6.59	118.52	108.71
24	BA	1980	G	C2'-C3'-O3'	-6.58	99.63	109.50
36	D0	74	LYS	N-CA-C	-6.58	101.84	110.33
1	CA	792	A	C1'-C2'-O2'	-6.58	101.93	111.80
27	DE	95	ILE	N-CA-C	-6.58	104.45	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	DA	782	A	C2'-C3'-O3'	-6.58	99.64	109.50
24	BA	249	C	C2'-C3'-O3'	-6.57	99.64	109.50
24	BA	2859	G	C2'-C3'-O3'	6.57	123.56	113.70
24	DA	2502	G	C4'-C3'-O3'	-6.57	103.14	113.00
27	BE	21	VAL	CA-C-N	6.56	126.48	119.85
27	BE	21	VAL	C-N-CA	6.56	126.48	119.85
24	DA	1567	A	N9-C1'-C2'	6.55	123.83	114.00
28	BF	168	ARG	N-CA-C	6.55	118.08	111.07
35	BP	72	LYS	CA-C-N	6.55	126.31	119.76
35	BP	72	LYS	C-N-CA	6.55	126.31	119.76
14	CQ	7	ILE	N-CA-C	-6.55	104.11	110.72
46	DZ	83	GLU	N-CA-C	6.54	120.49	110.36
24	DA	995	C	N1-C1'-C2'	6.53	123.80	114.00
27	DE	125	GLY	CA-C-N	6.53	128.00	119.84
27	DE	125	GLY	C-N-CA	6.53	128.00	119.84
24	DA	2585	U	N1-C1'-C2'	6.52	121.78	112.00
31	BK	124	GLY	N-CA-C	6.51	118.71	110.96
24	BA	70	G	N9-C1'-C2'	6.51	123.76	114.00
1	AA	345	C	N1-C1'-C2'	6.50	121.76	112.00
1	AA	566	G	C4'-C3'-O3'	6.50	119.16	109.40
27	BE	118	LYS	N-CA-C	-6.50	96.95	110.80
30	DH	164	TYR	N-CA-C	-6.50	100.65	110.28
24	BA	562	U	N1-C1'-C2'	6.50	121.75	112.00
24	DA	829	A	C4'-C3'-O3'	-6.50	99.65	109.40
1	AA	702	A	N9-C1'-C2'	6.50	123.75	114.00
31	BK	110	ASP	CA-C-N	-6.50	112.83	120.11
31	BK	110	ASP	C-N-CA	-6.50	112.83	120.11
1	CA	1124	G	N9-C1'-C2'	6.50	121.75	112.00
35	DP	82	ARG	N-CA-C	6.49	123.77	114.16
24	BA	1992	G	N9-C1'-C2'	6.49	123.74	114.00
26	DD	14	ARG	N-CA-C	-6.49	104.41	112.72
19	CV	79	THR	N-CA-C	-6.48	96.99	110.80
4	AG	193	ASP	N-CA-C	6.48	119.34	111.82
1	CA	794	A	O4'-C1'-C2'	-6.48	101.12	107.60
4	AG	11	LEU	N-CA-C	-6.47	105.92	113.88
25	DB	108	C	C2'-C3'-O3'	-6.46	104.01	113.70
1	CA	792	A	C4-N9-C1'	6.46	145.68	126.30
39	D1	89	GLU	N-CA-C	-6.46	103.92	113.61
24	DA	1668	A	C2'-C3'-O3'	-6.46	99.81	109.50
39	B1	76	TYR	N-CA-C	-6.46	103.52	111.40
28	BF	71	GLY	N-CA-C	-6.45	106.80	114.48
38	DR	113	LYS	N-CA-C	-6.45	102.92	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CA	575	G	C2'-C3'-O3'	6.45	119.17	109.50
41	DS	112	GLY	N-CA-C	-6.44	106.80	115.36
22	AC	7	G	N9-C1'-C2'	6.44	121.66	112.00
24	BA	1266	G	N9-C1'-C2'	6.43	123.65	114.00
24	DA	776	G	N9-C1'-C2'	6.43	123.65	114.00
24	DA	945	A	O4'-C1'-N9	6.42	118.14	108.50
24	DA	2689	U	C2'-C3'-O3'	6.42	119.14	109.50
33	BN	26	LYS	N-CA-C	-6.42	97.12	110.80
24	BA	2725	A	C4'-C3'-O3'	-6.41	103.38	113.00
45	B3	50	ASN	N-CA-C	-6.41	97.14	110.80
24	DA	196	A	C2'-C3'-O3'	-6.41	99.88	109.50
24	DA	856	C	C2'-C3'-O3'	6.41	123.32	113.70
24	DA	788	A	C2'-C3'-O3'	6.41	119.11	109.50
1	CA	1003	G	N9-C1'-C2'	-6.40	102.39	112.00
9	AL	76	ALA	N-CA-C	-6.40	104.17	112.68
29	DG	28	VAL	N-CA-C	6.40	117.91	110.62
34	BO	99	LEU	N-CA-C	-6.39	104.52	112.90
24	BA	241	A	C2'-C3'-O3'	6.39	119.09	109.50
24	DA	2468	G	N9-C1'-C2'	6.39	123.58	114.00
31	DK	41	GLU	N-CA-C	-6.39	105.62	113.41
24	DA	2311	A	O4'-C1'-N9	6.38	117.78	108.20
24	BA	856	C	C2'-C3'-O3'	6.38	123.27	113.70
1	CA	1065	U	C2'-C3'-O3'	6.38	119.07	109.50
29	DG	55	LYS	N-CA-C	-6.38	102.96	111.96
38	DR	130	ALA	N-CA-C	-6.38	106.08	114.31
38	DR	131	ALA	N-CA-C	-6.38	105.07	112.92
24	DA	2780	G	N9-C1'-C2'	6.37	123.56	114.00
8	AK	77	GLU	N-CA-C	-6.37	102.29	110.19
26	DD	83	GLU	N-CA-C	6.37	118.86	109.69
53	D8	48	PHE	N-CA-C	6.37	118.78	108.34
1	CA	412	A	C2'-C3'-O3'	6.36	119.05	109.50
26	BD	132	PRO	N-CA-C	-6.36	101.20	111.19
24	DA	1992	G	N9-C1'-C2'	6.36	123.54	114.00
38	DR	123	GLN	N-CA-C	-6.36	97.26	110.80
24	BA	2250	G	N9-C1'-C2'	6.36	123.54	114.00
27	BE	70	ALA	N-CA-C	-6.36	97.26	110.80
24	DA	529	A	N9-C1'-C2'	6.35	123.53	114.00
24	DA	974(A)	C	C2'-C3'-O3'	6.35	119.03	109.50
53	D8	50	LEU	N-CA-C	6.35	118.84	108.55
24	DA	421	U	N1-C1'-C2'	6.35	123.52	114.00
24	DA	1966	A	N9-C1'-C2'	6.34	123.52	114.00
5	CH	32	VAL	N-CA-C	6.34	117.60	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	BH	170	ARG	N-CA-C	6.33	116.36	108.19
24	DA	1329	U	N1-C1'-C2'	6.33	123.49	114.00
39	D1	65	ILE	CB-CA-C	-6.33	103.90	111.81
24	BA	2425	A	C2'-C3'-O3'	-6.32	100.02	109.50
35	DP	106	VAL	N-CA-C	6.32	116.24	108.53
12	AO	44	THR	CA-C-N	6.32	127.73	119.84
12	AO	44	THR	C-N-CA	6.32	127.73	119.84
53	D8	23	VAL	N-CA-C	6.31	117.11	107.77
24	BA	527	C	N1-C1'-C2'	6.31	123.46	114.00
34	BO	62	LEU	N-CA-C	6.31	123.75	109.81
24	DA	571	A	C4'-C3'-O3'	-6.30	99.95	109.40
27	BE	133	LYS	N-CA-C	6.30	120.31	112.24
24	DA	1762	A	C2'-C3'-O3'	-6.30	100.05	109.50
30	BH	75	ALA	N-CA-C	-6.30	105.08	112.89
13	AP	79	LYS	N-CA-C	-6.29	105.57	113.18
32	DM	113	GLY	N-CA-C	-6.29	105.18	112.73
1	CA	250	A	C2'-C3'-O3'	6.29	118.93	109.50
24	DA	70	G	C4'-C3'-O3'	-6.29	99.97	109.40
24	BA	1966	A	C4'-C3'-O3'	-6.29	99.97	109.40
16	CS	74	LEU	N-CA-C	-6.29	105.77	113.50
1	AA	208	U	C2'-C3'-O3'	-6.27	104.29	113.70
24	DA	2726	U	N1-C1'-C2'	6.27	121.41	112.00
24	BA	793	A	C4'-C3'-O3'	-6.27	103.60	113.00
4	CG	21	LEU	N-CA-C	-6.27	104.94	112.59
24	DA	1022	G	C2'-C3'-O3'	6.27	118.90	109.50
32	DM	107	LEU	N-CA-C	-6.26	101.89	109.72
24	DA	2712(A)	A	C2'-C3'-O3'	-6.26	104.31	113.70
13	CP	91	ARG	N-CA-C	-6.26	105.50	113.01
15	CR	54	ARG	N-CA-C	-6.25	104.15	110.97
1	AA	1285	A	N9-C1'-C2'	6.25	121.38	112.00
1	CA	1535	C	N1-C1'-C2'	6.25	121.38	112.00
26	BD	53	PHE	N-CA-C	6.25	120.04	111.54
1	AA	517	G	N9-C1'-C2'	6.24	121.36	112.00
26	DD	226	MET	N-CA-C	6.24	117.93	110.19
48	BX	15	TYR	CA-C-N	6.24	127.63	119.84
48	BX	15	TYR	C-N-CA	6.24	127.63	119.84
26	DD	272	ALA	N-CA-C	6.24	124.08	110.80
16	AS	71	ARG	N-CA-C	-6.23	104.41	111.14
19	AV	10	PHE	N-CA-C	6.23	118.66	109.69
31	BK	111	PRO	N-CA-C	-6.22	102.43	111.33
39	B1	89	GLU	N-CA-C	-6.22	103.80	111.33
24	DA	1340	U	N1-C1'-C2'	6.22	123.33	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	CO	89	ARG	N-CA-C	6.22	118.55	110.53
24	DA	222	A	C2'-C3'-O3'	6.22	118.83	109.50
34	BO	52	GLU	CB-CA-C	-6.22	108.12	117.07
1	AA	532	A	C2'-C3'-O3'	6.21	118.82	109.50
29	DG	44	GLY	N-CA-C	-6.21	105.05	113.37
22	AC	16	C	N1-C1'-C2'	6.21	123.31	114.00
24	BA	49	A	C2'-C3'-O3'	6.21	118.81	109.50
1	AA	1124	G	C4'-C3'-O3'	-6.21	103.69	113.00
24	BA	2610	C	C2'-C3'-O3'	6.21	118.81	109.50
36	D0	24	GLN	N-CA-C	-6.21	104.44	111.14
34	DO	63	PRO	N-CA-C	6.20	120.85	112.48
24	BA	1022	G	C2'-C3'-O3'	6.20	118.80	109.50
49	D4	68	ARG	N-CA-C	6.20	124.01	110.80
7	AJ	79	ARG	N-CA-C	6.20	124.00	110.80
24	BA	119	A	C2'-C3'-O3'	6.20	118.80	109.50
24	BA	1156	A	C2'-C3'-O3'	-6.20	100.20	109.50
24	DA	1379	A	N9-C1'-C2'	6.20	121.30	112.00
49	B4	68	ARG	N-CA-C	-6.20	105.58	113.01
24	DA	2296	U	C4'-C3'-O3'	6.20	118.69	109.40
1	AA	1064	G	N9-C1'-C2'	6.19	121.29	112.00
27	BE	62	PRO	N-CA-C	-6.18	99.73	112.47
1	CA	792	A	O4'-C4'-C3'	-6.18	99.92	106.10
22	AC	9	G	C2'-C3'-O3'	-6.18	104.43	113.70
9	CL	60	ASP	N-CA-C	-6.18	100.01	109.65
24	BA	421	U	C2'-C3'-O3'	6.17	118.76	109.50
24	BA	2092	U	O4'-C1'-N1	6.17	117.46	108.20
1	AA	889	A	N9-C1'-C2'	6.17	123.26	114.00
24	BA	2566	A	N9-C1'-C2'	6.17	123.26	114.00
26	DD	69	ARG	N-CA-C	6.17	120.80	113.28
1	AA	8	A	N9-C1'-C2'	6.16	123.23	114.00
1	CA	1504	G	C2'-C3'-O3'	6.15	118.73	109.50
7	AJ	49	ILE	N-CA-C	-6.15	105.00	113.00
24	BA	1385	G	N9-C1'-C2'	6.15	121.23	112.00
24	BA	2145	C	C2'-C3'-O3'	6.15	118.72	109.50
21	CX	8	THR	N-CA-C	6.15	116.68	108.38
49	B4	54	GLY	CA-C-O	-6.14	115.43	121.76
32	DM	57	ALA	N-CA-C	-6.14	100.56	109.59
24	DA	1359	A	O4'-C1'-C2'	-6.14	101.46	107.60
1	CA	518	C	N1-C1'-C2'	6.14	123.21	114.00
24	BA	603	A	N9-C1'-C2'	6.14	123.20	114.00
24	BA	1609	A	C4'-C3'-O3'	-6.14	103.79	113.00
4	CG	41	GLY	N-CA-C	6.13	120.41	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	CV	39	THR	N-CA-C	-6.13	102.86	108.75
26	BD	85	ASP	N-CA-C	-6.13	99.59	109.40
44	BV	133	ILE	CA-C-N	6.13	127.50	119.84
44	BV	133	ILE	C-N-CA	6.13	127.50	119.84
31	BK	94	ALA	N-CA-C	-6.13	103.76	111.11
24	DA	2497	A	C2'-C3'-O3'	-6.13	100.31	109.50
4	CG	10	ARG	N-CA-C	-6.12	105.86	113.15
1	AA	367	U	N1-C1'-C2'	6.12	123.18	114.00
24	DA	574	C	N1-C1'-C2'	6.12	123.18	114.00
32	DM	13	TRP	N-CA-C	6.12	118.59	109.59
5	AH	27	ARG	N-CA-C	-6.12	101.14	109.95
4	CG	31	CYS	N-CA-C	-6.12	97.77	110.80
40	B2	39	LEU	N-CA-C	-6.12	105.46	113.17
24	BA	614	U	C2'-C3'-O3'	-6.11	104.53	113.70
24	BA	2689	U	C2'-C3'-O3'	6.11	118.67	109.50
4	AG	171	GLY	CA-C-N	6.11	126.29	119.32
4	AG	171	GLY	C-N-CA	6.11	126.29	119.32
24	BA	1250	G	C2'-C3'-O3'	6.11	118.67	109.50
7	AJ	44	TYR	N-CA-C	-6.11	103.94	111.33
50	B5	41	PRO	CA-C-N	6.11	127.48	119.84
50	B5	41	PRO	C-N-CA	6.11	127.48	119.84
24	DA	215	G	N9-C1'-C2'	6.11	123.16	114.00
38	DR	76	PHE	CA-C-N	6.11	127.47	119.84
38	DR	76	PHE	C-N-CA	6.11	127.47	119.84
1	AA	189	U	C4'-C3'-O3'	-6.10	103.84	113.00
1	CA	702	A	N9-C1'-C2'	6.10	123.15	114.00
28	BF	163	VAL	N-CA-C	-6.10	104.35	111.00
1	CA	595	G	C2'-C3'-O3'	-6.10	104.55	113.70
41	DS	92	ARG	N-CA-C	6.10	117.80	111.03
26	DD	88	ARG	N-CA-C	6.09	117.50	108.60
24	BA	1954	G	N9-C1'-C2'	6.09	123.14	114.00
30	DH	127	GLU	N-CA-C	-6.09	96.35	109.81
7	AJ	20	ASP	N-CA-C	6.09	117.99	111.36
24	BA	1786	A	N9-C1'-C2'	6.08	123.13	114.00
41	DS	60	ASN	N-CA-C	6.08	123.76	110.80
46	BZ	67	ILE	CB-CA-C	-6.08	107.93	113.70
24	DA	1286	A	C2'-C3'-O3'	-6.08	100.39	109.50
28	BF	87	GLY	N-CA-C	-6.07	103.36	113.02
2	AE	110	GLN	N-CA-C	-6.07	105.13	112.54
24	BA	1962	C	N1-C1'-C2'	6.07	123.11	114.00
1	AA	1498	U	N1-C1'-C2'	6.07	123.11	114.00
24	BA	784	A	C4'-C3'-O3'	-6.07	103.89	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BS	57	ASN	N-CA-C	-6.07	103.81	112.13
1	AA	412	A	C2'-C3'-O3'	6.07	118.60	109.50
24	BA	1253	A	N9-C1'-C2'	6.07	123.10	114.00
24	DA	458	G	N9-C1'-C2'	6.07	123.10	114.00
3	AF	19	GLU	N-CA-C	-6.07	105.42	114.64
2	CE	37	ASN	N-CA-C	-6.07	105.83	113.23
26	DD	230	ASP	N-CA-C	6.07	119.93	111.56
26	DD	22	SER	N-CA-C	-6.06	104.00	111.40
24	BA	242	G	C5'-C4'-C3'	6.06	124.29	115.20
24	BA	1667	G	N9-C1'-C2'	6.06	121.09	112.00
16	AS	70	ALA	N-CA-C	-6.06	104.60	112.23
24	DA	215	G	C2'-C3'-O3'	-6.06	100.41	109.50
24	DA	138	G	N9-C1'-C2'	6.06	121.08	112.00
24	DA	2447	G	N9-C1'-C2'	6.06	123.08	114.00
42	DT	5	TYR	N-CA-C	-6.05	106.15	112.93
22	AC	7	G	C4'-C3'-O3'	-6.05	103.93	113.00
45	B3	82	ARG	CA-C-N	6.05	127.40	119.84
45	B3	82	ARG	C-N-CA	6.05	127.40	119.84
24	BA	2866	U	C4'-C3'-O3'	-6.05	103.93	113.00
45	D3	62	LEU	N-CA-C	-6.05	105.93	113.55
35	DP	96	VAL	N-CA-C	6.04	115.95	107.37
35	DP	97	VAL	N-CA-C	6.04	117.00	108.36
1	CA	1036	G	N9-C1'-C2'	6.04	121.06	112.00
1	CA	1503	A	C2'-C3'-O3'	6.04	118.56	109.50
8	CK	28	ALA	N-CA-C	6.04	118.34	110.43
46	DZ	51	VAL	N-CA-C	6.04	117.18	108.48
1	AA	792	A	C2'-C3'-O3'	6.04	118.55	109.50
36	D0	2	ARG	N-CA-C	-6.03	97.95	110.80
24	DA	1947	C	C5'-C4'-C3'	-6.03	106.96	116.00
1	AA	1049	U	C2'-C3'-O3'	6.03	118.54	109.50
27	BE	188	VAL	CA-C-N	6.03	127.38	119.84
27	BE	188	VAL	C-N-CA	6.03	127.38	119.84
1	AA	428	G	C2'-C3'-O3'	6.03	118.54	109.50
36	D0	111	LEU	N-CA-C	6.02	119.38	110.46
47	DW	45	SER	N-CA-C	6.02	118.22	109.07
4	CG	204	ILE	N-CA-C	-6.02	105.85	111.45
24	DA	1379	A	O5'-C5'-C4'	-6.02	102.47	111.50
27	DE	77	ILE	N-CA-C	-6.02	103.61	112.04
40	D2	14	VAL	N-CA-C	6.02	116.61	110.05
1	AA	484	G	C2'-C3'-O3'	6.01	118.52	109.50
1	AA	1225	A	C2'-C3'-O3'	-6.01	104.68	113.70
34	DO	58	THR	N-CA-C	-6.01	103.08	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	1142(A)	A	C4'-C3'-O3'	-6.01	103.99	113.00
24	DA	2278	A	C5'-C4'-C3'	6.01	125.01	116.00
4	AG	158	ILE	N-CA-C	-6.00	106.65	111.81
5	AH	92	LYS	CA-C-N	6.00	125.91	119.85
5	AH	92	LYS	C-N-CA	6.00	125.91	119.85
25	DB	34	U	C2'-C3'-O3'	-6.00	100.50	109.50
27	DE	18	ASP	N-CA-C	-6.00	98.94	109.02
35	BP	12	GLN	N-CA-C	6.00	118.52	109.23
1	CA	1053	G	C2'-C3'-O3'	-5.99	104.71	113.70
24	BA	50	U	N1-C1'-C2'	5.99	122.99	114.00
24	DA	2776	A	C2'-C3'-O3'	5.99	118.49	109.50
26	DD	107	ALA	N-CA-C	5.99	118.28	109.42
24	BA	448	U	N1-C1'-C2'	5.99	122.98	114.00
24	DA	2211	G	N9-C1'-C2'	5.98	120.97	112.00
24	DA	2572	A	C2'-C3'-O3'	5.98	118.47	109.50
1	AA	189	U	N1-C1'-C2'	5.98	120.97	112.00
24	BA	573	G	N9-C1'-C2'	5.98	122.97	114.00
24	DA	829	A	N9-C1'-C2'	5.98	122.97	114.00
53	D8	60	LEU	N-CA-C	-5.98	104.12	112.25
24	DA	1247	A	N9-C1'-C2'	5.98	122.97	114.00
28	DF	183	VAL	N-CA-C	5.97	117.43	110.62
15	AR	25	THR	N-CA-C	-5.97	102.43	111.56
37	BQ	43	GLU	N-CA-C	-5.97	104.65	113.72
39	B1	116	ALA	N-CA-C	-5.97	104.61	112.72
24	DA	1838	C	C4'-C3'-O3'	-5.97	100.45	109.40
24	DA	2391	G	N9-C1'-C2'	5.97	122.95	114.00
1	AA	84	U	N1-C1'-C2'	5.96	120.95	112.00
24	BA	790	C	C2'-C3'-O3'	5.96	118.44	109.50
24	DA	49	A	C2'-C3'-O3'	5.96	118.44	109.50
24	DA	1378	A	O3'-P-O5'	-5.96	95.06	104.00
7	AJ	80	VAL	N-CA-C	5.96	121.73	109.34
24	DA	2061	G	N9-C1'-C2'	5.96	122.93	114.00
40	B2	72	VAL	N-CA-C	5.96	121.73	109.34
24	DA	945	A	C4-N9-C1'	5.95	144.16	126.30
24	DA	1143	A	C2'-C3'-O3'	5.95	118.42	109.50
24	DA	728	G	N9-C1'-C2'	5.95	122.92	114.00
24	DA	2311	A	C3'-C2'-C1'	-5.95	95.55	101.50
11	CN	75	TYR	N-CA-C	-5.95	106.27	112.93
20	CW	42	GLN	N-CA-C	-5.95	105.99	113.18
24	DA	2249	U	N1-C1'-C2'	5.94	122.91	114.00
24	DA	2406	U	C2'-C3'-O3'	-5.94	104.79	113.70
24	BA	1900	A	C4'-C3'-O3'	-5.94	104.09	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	DD	106	ILE	N-CA-C	-5.94	101.88	109.30
1	CA	1364	U	N1-C1'-C2'	5.94	120.91	112.00
40	D2	69	LYS	N-CA-C	5.94	118.97	110.24
24	DA	2425	A	C4'-C3'-O3'	5.93	118.30	109.40
35	BP	10	ARG	N-CA-C	5.93	118.64	111.40
24	DA	1694	C	N1-C1'-C2'	5.93	120.90	112.00
32	DM	38	HIS	N-CA-C	-5.93	106.38	113.97
24	BA	1647	G	C2'-C3'-O3'	-5.93	104.80	113.70
24	BA	458	G	N9-C1'-C2'	5.93	122.89	114.00
49	B4	53	GLU	CA-C-N	-5.93	116.48	121.58
49	B4	53	GLU	C-N-CA	-5.93	116.48	121.58
24	BA	242	G	C1'-C2'-O2'	-5.92	102.92	111.80
24	DA	1265	A	N9-C1'-C2'	5.92	120.89	112.00
34	DO	62	LEU	N-CA-C	5.92	115.75	108.11
24	DA	2681	C	C4'-C3'-O3'	-5.92	104.12	113.00
24	DA	974(A)	C	N1-C1'-C2'	5.92	122.87	114.00
34	DO	19	VAL	N-CA-C	5.91	121.63	109.34
1	AA	109	A	N9-C1'-C2'	5.91	122.86	114.00
1	CA	190	G	N9-C1'-C2'	5.91	120.86	112.00
24	BA	571	A	N9-C1'-C2'	5.90	122.85	114.00
31	DK	15	VAL	N-CA-C	5.90	121.61	109.34
1	CA	753	A	C2'-C3'-O3'	5.90	118.35	109.50
24	BA	2681	C	N1-C1'-C2'	5.90	120.85	112.00
1	AA	1036	G	N9-C1'-C2'	5.89	120.84	112.00
1	AA	1299	A	N9-C1'-C2'	5.89	120.84	112.00
13	CP	24	GLY	N-CA-C	-5.89	107.55	115.21
46	DZ	56	GLN	N-CA-C	5.89	119.81	109.80
1	AA	251	G	N9-C1'-C2'	5.89	122.83	114.00
11	AN	11	LYS	N-CA-C	5.89	123.34	110.80
38	BR	110	ILE	N-CA-C	-5.89	104.62	110.62
1	CA	281	G	C4'-C3'-O3'	-5.89	104.17	113.00
24	DA	746	A	C4'-C3'-O3'	-5.88	104.17	113.00
24	DA	1602	U	C2'-C3'-O3'	-5.88	100.67	109.50
11	AN	84	VAL	N-CA-C	5.88	116.34	108.11
53	B8	5	LYS	N-CA-C	-5.88	102.61	110.55
5	CH	150	ARG	N-CA-C	-5.88	105.69	112.92
27	BE	23	VAL	N-CA-C	5.88	121.57	109.34
26	DD	196	VAL	N-CA-C	5.88	120.36	111.89
24	DA	616	A	C2'-C3'-O3'	5.88	118.31	109.50
35	DP	81	VAL	CA-C-N	-5.88	111.12	120.70
35	DP	81	VAL	C-N-CA	-5.88	111.12	120.70
20	CW	77	ALA	N-CA-C	-5.87	104.96	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	DD	200	ASP	N-CA-C	-5.87	105.61	112.89
24	BA	752	A	C2'-C3'-O3'	5.87	118.30	109.50
41	DS	101	SER	N-CA-C	5.87	119.24	110.14
24	BA	2311	A	N9-C1'-C2'	5.87	120.80	112.00
24	DA	827	U	C2'-C3'-O3'	-5.86	104.91	113.70
14	AQ	24	CYS	N-CA-C	-5.86	102.64	110.55
24	DA	474	G	C2'-C3'-O3'	5.86	118.28	109.50
49	D4	56	VAL	N-CA-C	-5.86	108.15	113.71
50	D5	4	HIS	CA-C-N	-5.86	113.90	119.76
50	D5	4	HIS	C-N-CA	-5.86	113.90	119.76
26	DD	99	ASP	N-CA-C	-5.85	105.40	112.54
30	DH	125	VAL	C-N-CD	-5.85	107.73	120.60
24	BA	508	G	C2'-C3'-O3'	5.85	118.27	109.50
24	DA	1312	U	C2'-C3'-O3'	5.85	118.27	109.50
1	AA	7	G	N9-C1'-C2'	5.85	122.77	114.00
1	CA	1224	G	C2'-C3'-O3'	5.84	118.26	109.50
24	BA	301	G	N9-C1'-C2'	5.84	122.76	114.00
37	BQ	91	PRO	N-CA-C	-5.84	106.85	114.03
24	DA	119	A	C4'-C3'-O3'	5.84	118.16	109.40
31	DK	89	TYR	N-CA-C	-5.84	105.00	111.36
24	DA	2610	C	C2'-C3'-O3'	5.84	118.26	109.50
24	BA	2517	C	C4'-C3'-O3'	-5.84	104.25	113.00
1	AA	1201	A	N9-C1'-C2'	5.83	122.75	114.00
10	AM	76	ASN	CA-C-N	5.83	127.13	119.84
10	AM	76	ASN	C-N-CA	5.83	127.13	119.84
11	CN	116	HIS	N-CA-C	-5.83	103.41	111.81
1	AA	960	U	N1-C1'-C2'	5.83	120.75	112.00
28	DF	151	SER	N-CA-C	-5.83	106.15	113.20
1	AA	748	C	C2'-C3'-O3'	5.83	118.24	109.50
24	BA	603	A	C2'-C3'-O3'	5.83	118.24	109.50
1	CA	327	A	C4'-C3'-O3'	-5.83	104.26	113.00
1	AA	481	G	C2'-C3'-O3'	-5.83	104.96	113.70
30	DH	4	ILE	N-CA-C	5.82	117.14	108.23
24	DA	1220	A	N9-C1'-C2'	5.82	120.73	112.00
1	AA	130	A	N9-C1'-C2'	5.82	120.73	112.00
1	CA	47	C	C2'-C3'-O3'	-5.82	100.77	109.50
1	CA	388	G	N9-C1'-C2'	5.82	120.73	112.00
24	DA	1025	G	C2'-C3'-O3'	5.82	118.23	109.50
28	DF	85	GLY	N-CA-C	-5.82	107.62	115.36
24	DA	1786	A	N9-C1'-C2'	5.81	122.72	114.00
2	AE	130	ARG	CA-C-N	5.81	127.10	119.84
2	AE	130	ARG	C-N-CA	5.81	127.10	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	2448	A	N9-C1'-C2'	5.81	122.71	114.00
24	BA	2529	G	N9-C1'-C2'	5.81	120.72	112.00
24	DA	1254	A	C4'-C3'-O3'	-5.81	104.29	113.00
24	DA	332	A	C2'-C3'-O3'	5.80	118.21	109.50
5	AH	118	ILE	N-CA-C	5.80	115.49	108.06
24	BA	474	G	C2'-C3'-O3'	5.80	118.20	109.50
1	AA	934	C	C2'-C3'-O3'	5.80	118.20	109.50
27	BE	167	VAL	N-CA-C	-5.80	102.09	109.80
27	DE	118	LYS	N-CA-C	-5.80	98.45	110.80
31	DK	61	ARG	N-CA-C	-5.80	105.70	112.89
20	CW	91	LEU	N-CA-C	-5.79	106.38	113.50
24	DA	301	G	N9-C1'-C2'	5.79	122.68	114.00
24	BA	120	U	N1-C1'-C2'	5.79	122.68	114.00
24	DA	2031	A	C4'-C3'-O3'	-5.79	104.32	113.00
1	CA	872	A	N9-C1'-C2'	5.79	122.68	114.00
5	CH	26	PHE	N-CA-C	5.79	119.02	109.94
1	CA	889	A	N9-C1'-C2'	5.78	122.67	114.00
24	DA	481	G	C2'-C3'-O3'	5.78	118.17	109.50
30	DH	161	GLY	N-CA-C	5.78	118.28	111.63
3	AF	143	GLU	N-CA-C	-5.78	106.20	113.72
25	BB	31	C	N1-C1'-C2'	5.78	120.67	112.00
1	AA	1137	C	C2'-C3'-O3'	5.78	122.37	113.70
24	DA	2725	A	O4'-C1'-C2'	5.78	111.58	105.80
9	AL	93	ARG	N-CA-C	-5.77	106.37	113.41
24	DA	405	U	C4'-C3'-O3'	5.77	118.06	109.40
8	CK	12	ARG	N-CA-C	-5.77	104.99	111.28
24	BA	204	A	C2'-C3'-O3'	5.77	118.15	109.50
43	BU	5	MET	N-CA-C	5.76	117.95	109.24
24	DA	387	U	C2'-C3'-O3'	5.76	118.15	109.50
24	DA	1312	U	N1-C1'-C2'	5.76	122.65	114.00
12	AO	11	VAL	N-CA-C	-5.76	103.85	111.05
24	BA	2732	G	N9-C1'-C2'	5.76	120.64	112.00
1	CA	1054	C	N1-C1'-C2'	5.76	120.64	112.00
44	BV	137	ILE	N-CA-C	5.76	116.15	107.80
49	D4	67	TYR	N-CA-C	5.76	118.60	109.50
24	DA	1301	A	C2'-C3'-O3'	5.75	118.13	109.50
2	AE	86	GLU	N-CA-C	-5.75	104.91	111.07
24	BA	242	G	N9-C1'-C2'	5.75	122.63	114.00
25	DB	81	G	N9-C1'-C2'	5.75	120.63	112.00
24	DA	562	U	N1-C1'-C2'	5.75	120.63	112.00
24	DA	1341	U	N1-C1'-C2'	5.75	122.63	114.00
29	DG	58	GLN	N-CA-C	-5.75	105.76	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	DQ	6	ALA	N-CA-C	-5.75	105.10	111.71
37	DQ	12	PHE	N-CA-C	-5.75	98.55	110.80
9	AL	25	LYS	N-CA-C	-5.75	101.40	109.96
10	AM	53	PRO	N-CA-C	-5.75	106.52	114.27
24	BA	775	G	C2'-C3'-O3'	-5.75	100.88	109.50
1	CA	1336	C	N1-C1'-C2'	5.74	120.61	112.00
24	DA	913	U	C2'-C3'-O3'	5.74	118.11	109.50
22	AD	48	C	N1-C1'-C2'	5.74	120.61	112.00
24	BA	1451	C	N1-C1'-C2'	5.74	120.61	112.00
31	BK	63	ALA	N-CA-C	-5.74	105.54	112.54
47	BW	48	HIS	N-CA-C	5.74	123.03	110.80
1	AA	793	U	N1-C1'-C2'	5.74	120.61	112.00
40	B2	34	GLU	N-CA-C	-5.74	101.25	110.14
1	AA	119	A	C2'-C3'-O3'	5.74	118.10	109.50
11	AN	10	VAL	N-CA-C	5.74	121.27	109.34
1	CA	496	A	C2'-C3'-O3'	-5.73	105.10	113.70
17	CT	46	ASP	CA-C-N	5.73	127.01	119.84
17	CT	46	ASP	C-N-CA	5.73	127.01	119.84
24	DA	1615	C	N1-C1'-C2'	5.73	122.60	114.00
9	CL	118	LYS	N-CA-C	5.73	118.72	109.83
29	BG	65	GLY	N-CA-C	-5.73	106.26	115.08
49	B4	57	GLU	N-CA-C	5.73	117.21	110.97
38	DR	70	VAL	N-CA-C	5.73	116.73	108.48
24	BA	1602	U	C2'-C3'-O3'	-5.72	100.92	109.50
24	BA	2249	U	N1-C1'-C2'	5.72	122.58	114.00
35	BP	45	GLN	N-CA-C	-5.72	106.22	113.43
1	CA	992	U	C2'-C3'-O3'	5.72	118.08	109.50
24	DA	2517	C	N1-C1'-C2'	5.72	122.58	114.00
1	CA	279	A	N9-C1'-C2'	5.72	122.57	114.00
1	CA	1400	C	C4'-C3'-O3'	5.71	117.97	109.40
24	DA	1210	A	C2'-C3'-O3'	5.71	118.07	109.50
4	AG	22	LYS	N-CA-C	5.71	117.51	111.28
24	BA	1128	A	C2'-C3'-O3'	5.71	118.06	109.50
9	CL	55	ALA	N-CA-C	-5.71	103.73	111.55
24	DA	221	A	C2'-C3'-O3'	5.70	118.06	109.50
9	CL	87	GLN	N-CA-C	-5.70	104.70	111.03
22	CC	48	C	C4'-C3'-O3'	-5.70	104.45	113.00
27	DE	159	HIS	N-CA-C	-5.70	101.97	110.23
27	DE	49	LEU	N-CA-C	5.70	119.75	112.12
2	AE	179	LYS	N-CA-C	-5.69	106.38	113.55
27	BE	95	ILE	N-CA-C	-5.69	104.59	112.50
38	DR	121	ILE	N-CA-C	-5.69	104.80	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	457	A	C4'-C3'-O3'	-5.68	100.87	109.40
41	DS	6	ILE	N-CA-C	5.68	116.93	108.23
24	BA	512	G	C4'-C3'-O3'	-5.68	104.47	113.00
1	CA	73	G	N9-C1'-C2'	5.68	120.53	112.00
6	CI	95	GLU	CA-C-N	5.68	126.94	119.84
6	CI	95	GLU	C-N-CA	5.68	126.94	119.84
26	BD	44	ASN	N-CA-C	5.68	116.87	107.73
37	DQ	72	ALA	N-CA-C	-5.68	105.00	111.14
1	CA	687	A	C2'-C3'-O3'	5.68	118.02	109.50
11	CN	120	ARG	N-CA-C	-5.67	102.46	110.29
4	AG	20	TYR	CA-C-N	5.67	132.38	121.54
4	AG	20	TYR	C-N-CA	5.67	132.38	121.54
1	AA	652	U	N1-C1'-C2'	5.67	120.51	112.00
1	AA	197	A	C2'-C3'-O3'	5.67	118.00	109.50
24	BA	1566	A	N9-C1'-C2'	5.67	122.50	114.00
49	B4	69	LYS	N-CA-C	-5.67	106.13	113.16
1	CA	367	U	N1-C1'-C2'	5.67	122.50	114.00
36	B0	57	ARG	N-CA-C	-5.67	106.53	113.50
24	DA	1008	C	C2'-C3'-O3'	-5.67	101.00	109.50
29	DG	20	ILE	N-CA-C	-5.67	104.84	110.62
24	BA	1220	A	C2'-C3'-O3'	-5.66	105.21	113.70
37	DQ	53	SER	N-CA-C	-5.66	106.53	113.50
24	BA	2405	G	N9-C1'-C2'	5.66	120.49	112.00
19	CV	45	VAL	N-CA-C	5.66	121.11	109.34
24	DA	801	G	N9-C1'-C2'	5.66	122.49	114.00
24	DA	1534	G	N9-C1'-C2'	-5.66	103.51	112.00
24	BA	995	C	C4'-C3'-O3'	-5.66	104.52	113.00
28	DF	97	TYR	N-CA-C	5.66	119.66	112.87
24	DA	1220	A	C2'-C3'-O3'	-5.65	105.22	113.70
38	DR	108	ARG	N-CA-C	-5.65	106.55	113.50
49	B4	62	ARG	N-CA-C	-5.65	103.99	111.96
24	DA	2779	U	C4'-C3'-O3'	-5.65	104.52	113.00
24	BA	249	C	N1-C1'-C2'	5.65	122.47	114.00
1	CA	388	G	C4'-C3'-O3'	-5.65	104.53	113.00
2	CE	108	ILE	N-CA-C	-5.64	104.43	110.36
24	DA	1800	C	N1-C1'-C2'	5.64	122.47	114.00
24	DA	1236	G	C2'-C3'-O3'	-5.64	101.04	109.50
43	DU	44	ILE	N-CA-C	5.64	116.30	108.23
24	BA	386	G	C2'-C3'-O3'	5.64	117.96	109.50
2	CE	56	ARG	N-CA-C	-5.64	104.51	111.33
1	CA	1064	G	C4'-C3'-O3'	-5.64	104.54	113.00
31	BK	142	VAL	N-CA-C	5.64	121.06	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	DS	13	SER	N-CA-C	5.64	119.64	109.44
2	CE	7	VAL	N-CA-C	5.63	118.25	108.90
24	DA	2307	G	N9-C1'-C2'	5.63	122.44	114.00
31	BK	103	ARG	N-CA-C	-5.63	105.24	111.71
38	BR	19	LEU	N-CA-C	5.63	116.79	109.64
24	BA	332	A	C2'-C3'-O3'	5.62	117.94	109.50
1	AA	1038	C	C2'-C3'-O3'	5.62	117.94	109.50
24	DA	1598	C	C5'-C4'-C3'	-5.62	107.56	116.00
27	DE	198	VAL	N-CA-C	5.62	116.22	107.28
24	BA	232	G	N9-C1'-C2'	5.62	120.43	112.00
42	BT	46	ALA	N-CA-C	-5.62	108.21	114.62
28	BF	199	TRP	N-CA-C	-5.62	106.27	113.01
24	DA	1618	A	C2'-C3'-O3'	-5.62	101.07	109.50
24	DA	2051	A	C4'-C3'-O3'	-5.62	100.97	109.40
1	AA	250	A	C2'-C3'-O3'	5.62	117.93	109.50
24	BA	2286	A	C2'-C3'-O3'	5.62	117.92	109.50
24	BA	2835	A	C4'-C3'-O3'	-5.62	100.98	109.40
51	B6	21	TYR	N-CA-C	5.62	122.76	110.80
34	DO	123	LEU	N-CA-C	5.62	117.51	109.14
1	AA	1159	U	N1-C1'-C2'	5.61	120.42	112.00
18	AU	74	ARG	N-CA-C	-5.61	105.25	111.71
24	DA	2638	G	N9-C1'-C2'	5.61	120.42	112.00
13	AP	45	VAL	N-CA-C	-5.61	97.67	109.34
24	DA	989	G	N9-C1'-C2'	5.61	122.41	114.00
24	BA	1698	A	N9-C1'-C2'	5.61	122.41	114.00
46	BZ	85	LEU	N-CA-C	5.61	118.47	110.68
1	CA	1322	C	N1-C1'-C2'	5.61	120.41	112.00
4	AG	8	VAL	N-CA-C	5.61	116.63	111.81
24	BA	527	C	C2'-C3'-O3'	-5.60	101.09	109.50
24	BA	2542	A	C2'-C3'-O3'	-5.60	105.29	113.70
24	BA	1609	A	N9-C1'-C2'	5.60	120.40	112.00
38	BR	117	ASP	N-CA-C	-5.60	102.02	110.70
13	CP	40	ASN	CA-C-N	5.60	124.96	118.85
13	CP	40	ASN	C-N-CA	5.60	124.96	118.85
24	DA	945	A	C8-N9-C1'	-5.60	110.89	127.70
27	DE	131	ALA	CB-CA-C	-5.60	110.13	116.63
8	AK	82	HIS	N-CA-C	5.60	117.17	107.93
46	BZ	6	GLU	N-CA-C	-5.60	106.50	113.55
24	DA	1128	A	O4'-C1'-C2'	5.60	111.40	105.80
26	DD	268	ARG	N-CA-C	5.60	119.62	112.34
26	BD	191	ALA	N-CA-C	-5.59	100.21	108.99
24	DA	788	A	C4'-C3'-O3'	-5.59	101.01	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	246	A	C2'-C3'-O3'	5.59	117.89	109.50
42	DT	12	VAL	N-CA-C	-5.59	101.61	109.21
1	CA	1300	G	C2'-C3'-O3'	5.59	117.88	109.50
28	BF	37	VAL	N-CA-C	-5.59	105.28	110.53
9	AL	57	GLY	N-CA-C	-5.58	107.61	115.32
24	DA	1966	A	C4'-C3'-O3'	-5.58	101.02	109.40
27	BE	63	LEU	N-CA-C	-5.58	105.67	113.37
36	B0	54	LEU	N-CA-C	-5.58	105.28	111.36
24	DA	1818	U	C4'-C3'-O3'	-5.58	101.03	109.40
26	DD	11	PRO	N-CA-C	-5.58	102.24	111.11
49	D4	15	ILE	N-CA-C	5.58	118.16	108.90
24	BA	666	G	C5'-C4'-C3'	-5.58	107.63	116.00
9	CL	93	ARG	N-CA-C	-5.58	106.64	113.50
5	AH	26	PHE	N-CA-C	5.58	119.33	109.96
24	DA	527	C	N1-C1'-C2'	5.58	122.36	114.00
27	DE	174	ASP	N-CA-C	5.58	115.60	108.24
24	DA	1781	C	O4'-C1'-C2'	5.57	111.37	105.80
22	CB	9	G	C2'-C3'-O3'	-5.57	105.34	113.70
1	CA	281	G	N9-C1'-C2'	5.57	120.36	112.00
1	AA	130	A	C4'-C3'-O3'	-5.57	104.64	113.00
24	BA	371	A	N9-C1'-C2'	5.57	122.35	114.00
1	CA	960	U	N1-C1'-C2'	5.57	120.35	112.00
26	DD	120	GLY	CA-C-N	5.57	125.41	119.28
26	DD	120	GLY	C-N-CA	5.57	125.41	119.28
24	BA	1025	G	N9-C1'-C2'	5.57	120.35	112.00
24	BA	1380	G	C4'-C3'-C2'	-5.57	97.03	102.60
1	CA	1305	G	C4'-C3'-O3'	-5.57	104.65	113.00
24	DA	2032	G	O4'-C1'-C2'	5.57	111.37	105.80
13	CP	88	ARG	N-CA-C	-5.57	106.19	112.87
27	DE	93	VAL	N-CA-C	-5.57	97.77	109.34
1	CA	244	U	C2'-C3'-O3'	5.56	117.85	109.50
29	BG	128	ARG	N-CA-C	-5.56	105.42	113.21
24	BA	811	U	N1-C1'-C2'	5.56	122.34	114.00
24	BA	2848	G	N9-C1'-C2'	5.56	120.34	112.00
35	BP	97	VAL	N-CA-C	5.56	114.61	106.55
24	DA	83	G	N9-C1'-C2'	5.55	120.33	112.00
24	BA	2712(A)	A	C2'-C3'-O3'	-5.55	105.37	113.70
1	CA	1027	C	C2'-C3'-O3'	5.55	117.82	109.50
35	DP	26	TYR	N-CA-C	5.54	119.14	111.71
24	BA	447	A	C4'-C3'-O3'	5.54	117.71	109.40
38	BR	7	ILE	N-CA-C	-5.54	104.12	111.05
41	DS	13	SER	CA-C-N	5.54	126.77	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	DS	13	SER	C-N-CA	5.54	126.77	119.84
1	AA	703	G	N9-C1'-C2'	5.54	120.31	112.00
26	BD	34	VAL	N-CA-C	-5.54	97.82	109.34
1	CA	1446	A	N9-C1'-C2'	5.54	120.31	112.00
24	BA	1634	A	C4'-C3'-O3'	5.54	117.71	109.40
5	CH	11	ILE	CB-CA-C	-5.54	105.98	111.30
24	DA	1454	U	C4'-C3'-O3'	5.54	117.70	109.40
24	DA	2344	U	C4'-C3'-O3'	5.54	117.70	109.40
26	DD	146	GLU	N-CA-C	-5.54	101.84	110.42
35	DP	21	THR	N-CA-C	5.54	122.59	110.80
28	BF	170	LEU	CA-C-N	5.53	124.88	118.85
28	BF	170	LEU	C-N-CA	5.53	124.88	118.85
47	BW	5	GLU	CA-C-N	5.53	127.64	120.56
47	BW	5	GLU	C-N-CA	5.53	127.64	120.56
26	DD	174	ILE	N-CA-C	5.53	116.84	109.37
1	AA	1338	G	N9-C1'-C2'	5.53	120.30	112.00
19	AV	63	THR	N-CA-C	-5.53	104.79	112.30
24	BA	222	A	N9-C1'-C2'	5.53	122.29	114.00
24	DA	2557	G	C5'-C4'-C3'	-5.52	107.71	116.00
24	DA	2307	G	O4'-C1'-N9	5.52	116.48	108.20
24	DA	995	C	C4'-C3'-O3'	-5.52	101.12	109.40
1	AA	466	C	C2'-C3'-O3'	-5.52	105.42	113.70
39	D1	50	ARG	N-CA-C	-5.51	105.17	111.07
24	DA	2873	A	C4'-C3'-O3'	5.51	117.67	109.40
24	BA	932	G	N9-C1'-C2'	5.51	122.27	114.00
24	BA	1801	G	C2'-C3'-O3'	-5.51	101.23	109.50
2	CE	86	GLU	N-CA-C	-5.51	104.91	111.69
24	DA	2447	G	C4'-C3'-O3'	-5.51	101.13	109.40
19	AV	44	MET	N-CA-C	-5.51	104.63	111.90
24	BA	945	A	O4'-C1'-N9	5.51	116.46	108.20
22	CD	7	G	C2'-C3'-O3'	-5.51	105.44	113.70
24	DA	1066	U	N1-C1'-C2'	5.51	120.26	112.00
24	BA	2406	U	C2'-C3'-O3'	-5.50	105.44	113.70
16	CS	20	VAL	N-CA-C	5.50	116.97	108.44
24	DA	241	A	C2'-C3'-O3'	5.50	117.75	109.50
24	BA	913	U	N1-C1'-C2'	5.50	122.25	114.00
1	CA	1049	U	C2'-C3'-O3'	5.50	117.75	109.50
13	AP	94	ARG	N-CA-C	-5.50	106.16	112.92
1	AA	451	A	N9-C1'-C2'	5.49	120.24	112.00
3	AF	153	VAL	N-CA-C	-5.49	102.50	109.80
37	BQ	21	THR	N-CA-C	-5.49	106.65	113.19
24	BA	793	A	N9-C1'-C2'	5.49	120.23	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	1681	G	N9-C1'-C2'	5.49	122.23	114.00
14	AQ	13	THR	N-CA-C	5.49	121.93	109.81
27	BE	120	TRP	N-CA-C	5.49	119.28	112.59
28	DF	46	ARG	N-CA-C	5.49	119.69	112.89
24	BA	1954	G	C4'-C3'-O3'	-5.48	101.17	109.40
12	CO	127	GLU	N-CA-C	-5.48	105.80	113.37
24	DA	448	U	N1-C1'-C2'	5.48	122.22	114.00
24	BA	2282	G	C2'-C3'-O3'	5.48	117.72	109.50
1	CA	327	A	N9-C1'-C2'	5.48	120.22	112.00
24	BA	51	G	C2'-C3'-O3'	-5.48	101.28	109.50
24	DA	2275	C	N1-C1'-C2'	5.47	122.21	114.00
1	AA	1157	A	N9-C1'-C2'	5.47	120.21	112.00
24	BA	2319	G	C4'-C3'-O3'	5.47	117.61	109.40
24	DA	2158	A	C2'-C3'-O3'	-5.47	105.49	113.70
40	D2	17	GLY	N-CA-C	-5.47	106.10	115.08
42	DT	38	GLU	N-CA-C	-5.47	106.77	113.50
44	DV	121	HIS	N-CA-C	5.47	118.18	109.81
24	BA	2879	C	C4'-C3'-O3'	5.47	117.61	109.40
24	DA	784	A	N9-C1'-C2'	5.47	120.20	112.00
24	BA	2211	G	C2'-C3'-O3'	5.46	117.70	109.50
34	DO	85	LEU	N-CA-C	-5.46	106.29	113.12
24	BA	859	G	N9-C1'-C2'	5.46	120.19	112.00
27	DE	87	GLU	N-CA-C	-5.46	103.95	111.81
45	D3	16	SER	N-CA-C	-5.46	101.50	109.63
16	AS	69	THR	N-CA-C	-5.46	106.46	113.23
12	AO	15	ARG	N-CA-C	5.46	117.01	109.15
24	BA	506	G	C2'-C3'-O3'	-5.46	101.31	109.50
29	BG	43	LEU	N-CA-C	5.46	117.80	109.62
44	DV	141	VAL	N-CA-C	5.45	120.68	109.34
1	CA	563	A	N9-C1'-C2'	5.45	120.18	112.00
24	BA	1300	U	C2'-C3'-O3'	5.45	117.67	109.50
32	BM	91	LEU	N-CA-C	-5.44	105.77	112.90
48	BX	53	LEU	N-CA-C	-5.44	107.18	113.88
24	BA	827	U	C2'-C3'-O3'	-5.44	105.53	113.70
34	BO	91	PHE	N-CA-C	-5.44	101.01	109.72
14	AQ	25	VAL	N-CA-C	-5.44	107.55	112.12
48	BX	11	SER	N-CA-C	5.44	116.26	109.57
24	DA	2286	A	O3'-P-O5'	5.44	112.16	104.00
26	BD	33	LEU	N-CA-C	-5.44	99.22	110.80
4	CG	28	SER	CA-C-N	-5.44	113.05	119.84
4	CG	28	SER	C-N-CA	-5.44	113.05	119.84
24	DA	204	A	C2'-C3'-O3'	5.44	117.65	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	DD	65	ILE	N-CA-C	5.43	115.97	110.05
24	DA	846	C	C2'-C3'-O3'	5.43	117.64	109.50
30	DH	38	SER	CA-C-N	5.43	125.09	119.56
30	DH	38	SER	C-N-CA	5.43	125.09	119.56
1	AA	60	A	C2'-C3'-O3'	5.42	117.64	109.50
24	BA	2447	G	N9-C1'-C2'	5.42	122.14	114.00
24	DA	2439	A	N9-C1'-C2'	5.42	122.13	114.00
24	BA	2169	A	N9-C1'-C2'	5.42	120.13	112.00
3	CF	88	ARG	N-CA-C	-5.42	106.37	112.87
35	BP	69	PHE	N-CA-C	5.42	119.01	107.91
46	DZ	85	LEU	N-CA-C	5.42	117.94	108.52
24	BA	801	G	N9-C1'-C2'	5.42	122.12	114.00
20	AW	32	ALA	N-CA-C	-5.41	105.54	111.82
24	BA	2406	U	N1-C1'-C2'	5.41	120.12	112.00
39	B1	19	LYS	N-CA-C	-5.41	105.28	111.07
24	DA	930	U	C2'-C3'-O3'	-5.41	101.39	109.50
24	BA	1011	G	N9-C1'-C2'	5.41	120.11	112.00
26	BD	58	HIS	N-CA-C	5.41	122.32	110.80
24	DA	670	A	O4'-C1'-C2'	5.41	111.21	105.80
44	BV	107	THR	CA-C-N	-5.41	113.08	119.84
44	BV	107	THR	C-N-CA	-5.41	113.08	119.84
30	BH	38	SER	CA-C-N	5.41	126.60	119.84
30	BH	38	SER	C-N-CA	5.41	126.60	119.84
24	DA	930	U	O4'-C1'-C2'	5.40	111.20	105.80
24	BA	2132	U	C4'-C3'-O3'	5.40	117.50	109.40
1	CA	1067	A	C2'-C3'-O3'	5.40	117.60	109.50
24	DA	2060	A	O4'-C1'-C2'	5.40	111.20	105.80
1	AA	913	A	C2'-C3'-O3'	5.40	117.60	109.50
24	BA	1940	U	C2'-C3'-O3'	-5.40	101.40	109.50
19	CV	80	TYR	N-CA-C	5.40	119.63	112.72
24	BA	2581	G	C2'-C3'-O3'	-5.39	101.41	109.50
50	B5	30	LEU	N-CA-C	5.39	117.58	109.23
24	DA	1698	A	N9-C1'-C2'	5.39	122.08	114.00
1	AA	243	A	C2'-C3'-O3'	5.38	117.58	109.50
7	AJ	96	GLN	N-CA-C	-5.38	104.86	111.75
24	BA	1585	C	N1-C1'-C2'	5.38	122.07	114.00
36	B0	4	LEU	N-CA-C	5.38	119.14	112.47
24	DA	930	U	N1-C1'-C2'	5.38	122.07	114.00
24	DA	1615	C	C4'-C3'-O3'	-5.38	101.33	109.40
3	AF	6	HIS	CA-C-N	5.38	126.56	119.84
3	AF	6	HIS	C-N-CA	5.38	126.56	119.84
26	BD	38	LYS	N-CA-C	-5.38	102.23	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	DA	2346	A	C2'-C3'-O3'	5.38	117.57	109.50
9	CL	61	ALA	N-CA-C	5.38	116.58	108.46
28	DF	78	ILE	CB-CA-C	-5.38	104.99	112.04
1	AA	64	G	C2'-C3'-O3'	-5.37	105.64	113.70
24	BA	352	G	N9-C1'-C2'	5.37	120.06	112.00
28	DF	169	ASN	N-CA-C	5.37	118.94	112.38
37	DQ	101	LEU	N-CA-C	-5.37	105.08	111.69
8	AK	125	ARG	N-CA-C	-5.37	106.23	112.89
2	AE	164	VAL	N-CA-C	5.36	117.80	108.90
24	DA	573	G	N9-C1'-C2'	5.36	122.05	114.00
24	DA	1899	G	C4'-C3'-O3'	-5.36	104.95	113.00
5	AH	99	GLY	N-CA-C	-5.36	105.84	112.33
33	DN	57	VAL	N-CA-C	-5.36	101.81	108.89
1	CA	533	A	C2'-C3'-O3'	5.36	117.54	109.50
26	BD	11	PRO	N-CA-C	-5.36	101.43	112.47
1	AA	47	C	C2'-C3'-O3'	-5.36	101.47	109.50
24	DA	2311	A	O3'-P-O5'	-5.36	95.97	104.00
1	AA	922	G	N9-C1'-C2'	5.35	120.03	112.00
27	DE	2	LYS	N-CA-C	5.35	118.56	110.64
24	DA	1405	U	C4'-C3'-O3'	-5.35	104.97	113.00
47	BW	30	ARG	N-CA-C	-5.35	104.33	112.04
24	DA	2458	G	C2'-C3'-O3'	-5.35	101.47	109.50
1	CA	243	A	C2'-C3'-O3'	5.35	117.52	109.50
41	DS	21	VAL	N-CA-C	-5.35	105.97	112.76
1	AA	31	G	C2'-C3'-O3'	5.34	117.51	109.50
24	BA	458	G	C5'-C4'-C3'	5.34	123.21	115.20
28	DF	10	PRO	N-CA-C	5.34	118.97	110.21
24	BA	1567	A	N9-C1'-C2'	5.34	120.00	112.00
24	DA	83	G	C4'-C3'-O3'	-5.34	105.00	113.00
39	D1	99	ALA	N-CA-C	-5.33	106.47	112.87
44	BV	147	GLY	N-CA-C	-5.33	107.19	115.67
1	AA	815	A	C2'-C3'-O3'	5.33	117.50	109.50
33	BN	71	ARG	N-CA-C	-5.33	101.89	109.62
25	DB	52	A	N9-C1'-C2'	5.33	120.00	112.00
32	DM	92	ALA	N-CA-C	5.33	117.09	111.28
30	BH	80	SER	N-CA-C	5.33	113.87	108.75
10	CM	66	ARG	N-CA-C	5.33	117.40	108.23
34	BO	26	GLY	N-CA-C	-5.33	102.23	111.50
24	DA	455	C	N1-C1'-C2'	5.33	121.99	114.00
43	DU	70	SER	N-CA-C	-5.33	106.94	113.50
13	CP	107	ALA	N-CA-C	-5.33	107.44	114.04
22	AD	60	U	C2'-C3'-O3'	5.33	117.49	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	BE	128	SER	N-CA-C	5.33	122.14	110.80
29	BG	31	VAL	CA-C-N	5.32	126.49	119.84
29	BG	31	VAL	C-N-CA	5.32	126.49	119.84
43	BU	60	PHE	N-CA-C	5.32	117.99	107.98
38	DR	28	VAL	N-CA-C	5.32	115.38	108.35
24	BA	1544	C	N1-C1'-C2'	5.32	119.98	112.00
42	BT	5	TYR	N-CA-C	-5.32	106.63	113.01
4	CG	174	LEU	N-CA-C	5.32	117.57	108.90
36	D0	94	TYR	N-CA-C	-5.32	106.82	113.15
1	AA	1504	G	N9-C1'-C2'	5.32	121.98	114.00
1	AA	1542	G	C2'-C3'-O3'	5.32	121.67	113.70
34	DO	132	LYS	N-CA-C	-5.32	104.73	111.11
24	BA	1567	A	C4'-C3'-O3'	-5.32	105.03	113.00
24	BA	1610	A	C2'-C3'-O3'	-5.32	101.53	109.50
24	DA	1155	A	C3'-C2'-O2'	5.32	118.67	110.70
24	DA	1799	G	C2'-C3'-O3'	5.32	117.47	109.50
24	DA	670	A	N9-C1'-C2'	5.31	121.97	114.00
51	B6	27	LYS	N-CA-C	5.31	122.12	110.80
1	CA	792	A	C8-N9-C1'	-5.31	111.76	127.70
5	CH	97	GLY	N-CA-C	-5.31	107.70	115.72
22	CC	48	C	N1-C1'-C2'	5.31	119.96	112.00
24	DA	1699	G	C4'-C3'-O3'	5.31	117.36	109.40
1	CA	1529	G	C2'-C3'-O3'	-5.31	101.54	109.50
24	DA	1022	G	O4'-C1'-C2'	5.31	111.11	105.80
29	DG	31	VAL	CA-C-N	5.31	126.47	119.84
29	DG	31	VAL	C-N-CA	5.31	126.47	119.84
1	AA	530	G	C4'-C3'-O3'	-5.31	105.04	113.00
24	BA	527	C	O4'-C1'-C2'	5.30	111.10	105.80
24	DA	403	U	N1-C1'-C2'	5.30	121.95	114.00
24	BA	1131	G	N9-C1'-C2'	5.30	121.95	114.00
28	DF	199	TRP	N-CA-C	-5.30	105.45	112.34
1	AA	1336	C	C4'-C3'-O3'	-5.30	105.06	113.00
24	DA	1205	U	C2'-C3'-O3'	-5.30	101.56	109.50
24	BA	1986	A	C5'-C4'-C3'	-5.29	108.06	116.00
1	AA	1532	U	C2'-C3'-O3'	5.29	117.44	109.50
31	DK	143	SER	N-CA-C	5.29	117.31	109.69
24	BA	830	G	O4'-C1'-C2'	5.29	111.09	105.80
30	BH	153	LYS	N-CA-C	5.29	121.50	109.81
31	DK	85	GLU	N-CA-C	5.29	117.70	108.76
13	CP	46	LYS	N-CA-C	-5.29	105.97	112.90
29	DG	99	MET	N-CA-C	-5.29	105.19	111.69
25	BB	81	G	N9-C1'-C2'	5.28	119.92	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CA	50	A	C2'-C3'-O3'	5.28	117.42	109.50
49	B4	14	ILE	N-CA-C	5.28	117.67	108.90
24	BA	1237	A	C4'-C3'-O3'	5.28	117.32	109.40
24	BA	2581	G	N9-C1'-C2'	5.28	121.92	114.00
30	DH	28	GLY	CA-C-N	5.28	126.44	119.84
30	DH	28	GLY	C-N-CA	5.28	126.44	119.84
24	DA	1800	C	C4'-C3'-O3'	-5.28	101.48	109.40
1	AA	1067	A	C2'-C3'-O3'	5.27	117.41	109.50
26	DD	98	VAL	N-CA-C	-5.27	105.84	113.07
24	BA	1397	U	N1-C1'-C2'	5.27	121.90	114.00
1	AA	576	G	C4'-C3'-O3'	-5.27	101.50	109.40
22	CB	16	C	N1-C1'-C2'	5.27	119.90	112.00
1	CA	246	A	N9-C1'-C2'	5.27	121.90	114.00
13	CP	75	ALA	N-CA-C	-5.27	105.62	111.36
24	BA	1286	A	N9-C1'-C2'	5.26	119.90	112.00
47	DW	39	ALA	N-CA-C	-5.26	106.81	113.18
24	BA	673	C	C5'-C4'-C3'	-5.26	108.11	116.00
24	DA	1211	U	C4'-C3'-O3'	5.26	117.29	109.40
24	BA	955	C	C5'-C4'-C3'	-5.26	108.11	116.00
24	DA	1205	U	C4'-C3'-O3'	5.26	117.29	109.40
24	DA	800	A	O4'-C1'-C2'	5.26	111.06	105.80
13	AP	66	LEU	N-CA-C	5.26	116.97	109.14
24	BA	322	A	C2'-C3'-O3'	-5.26	101.61	109.50
24	BA	531	C	C5'-C4'-C3'	5.26	123.09	115.20
24	DA	1686	C	C5'-C4'-C3'	-5.26	108.11	116.00
20	AW	27	LYS	N-CA-C	-5.25	105.63	111.36
24	DA	801	G	C2'-C3'-O3'	-5.25	101.62	109.50
1	CA	1533	C	N1-C1'-C2'	5.25	119.87	112.00
49	D4	18	CYS	CB-CA-C	-5.25	108.81	116.53
24	BA	2287	A	C4'-C3'-O3'	-5.25	105.13	113.00
53	B8	32	LEU	N-CA-C	5.25	121.97	110.80
24	BA	1706	U	N1-C1'-C2'	5.24	121.86	114.00
45	B3	36	ILE	N-CA-C	-5.24	102.31	109.55
1	CA	1067	A	N9-C1'-C2'	5.24	121.87	114.00
24	DA	1940	U	C2'-C3'-O3'	-5.24	101.63	109.50
7	CJ	45	ASP	N-CA-C	-5.24	105.04	111.75
8	CK	70	GLN	N-CA-C	5.24	117.99	109.24
1	AA	315	A	N9-C1'-C2'	5.24	119.86	112.00
30	BH	31	GLY	N-CA-C	5.24	125.60	113.18
24	BA	434	U	C4'-C3'-O3'	5.24	117.26	109.40
1	CA	1003	G	O4'-C1'-C2'	-5.24	102.36	107.60
41	DS	96	ILE	N-CA-C	-5.24	101.98	108.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	AH	51	VAL	CB-CA-C	-5.24	108.73	113.70
49	D4	12	ALA	N-CA-C	5.24	114.75	107.73
24	DA	676	A	N9-C1'-C2'	5.23	119.85	112.00
24	DA	2655	G	N9-C1'-C2'	5.23	119.85	112.00
24	BA	139	G	C4'-C3'-O3'	-5.23	105.15	113.00
1	AA	50	A	C1'-C2'-O2'	-5.23	103.95	111.80
3	AF	39	ILE	N-CA-C	-5.23	105.50	110.42
24	BA	2597	G	N9-C1'-C2'	5.23	119.85	112.00
44	BV	64	GLY	N-CA-C	-5.23	103.30	112.77
4	CG	176	LEU	N-CA-C	5.23	116.85	107.80
8	CK	137	VAL	N-CA-C	5.23	117.28	108.81
34	DO	133	SER	N-CA-C	5.23	116.79	111.14
50	B5	3	LYS	N-CA-C	5.23	116.23	108.86
44	DV	161	VAL	N-CA-C	5.23	115.25	108.35
1	AA	974	A	C4'-C3'-O3'	-5.23	105.16	113.00
24	BA	2497	A	C2'-C3'-O3'	-5.23	101.66	109.50
35	BP	125	LEU	CA-C-N	5.23	126.38	119.84
35	BP	125	LEU	C-N-CA	5.23	126.38	119.84
24	DA	1790	C	C4'-C3'-O3'	-5.23	105.16	113.00
11	AN	73	MET	N-CA-C	-5.23	105.48	111.07
1	AA	1285	A	C4'-C3'-O3'	-5.22	105.16	113.00
24	DA	1237	A	C4'-C3'-O3'	5.22	117.24	109.40
24	DA	1451	C	N1-C1'-C2'	5.22	121.84	114.00
5	AH	16	THR	N-CA-C	5.22	117.70	107.57
19	AV	74	PHE	N-CA-C	-5.22	106.75	113.02
11	CN	26	ASN	N-CA-C	5.22	119.80	113.38
1	CA	428	G	C2'-C3'-O3'	5.22	117.33	109.50
1	AA	49	U	N1-C1'-C2'	5.22	121.83	114.00
27	DE	80	GLU	N-CA-C	-5.22	100.93	109.80
34	DO	36	LYS	N-CA-C	5.22	121.92	110.80
19	AV	40	ILE	N-CA-C	5.22	115.43	110.42
14	CQ	39	LEU	N-CA-C	5.22	117.34	109.41
24	BA	2238	G	C2'-C3'-O3'	-5.21	101.68	109.50
1	AA	971	G	C2'-C3'-O3'	-5.21	105.88	113.70
5	AH	12	LEU	N-CA-C	5.21	116.44	108.52
24	BA	2022	U	N1-C1'-C2'	5.21	119.82	112.00
30	BH	115	VAL	N-CA-C	5.21	114.29	106.42
48	BX	37	LEU	N-CA-C	5.21	117.33	109.41
24	DA	1838	C	N1-C1'-C2'	5.21	121.82	114.00
27	DE	200	GLU	N-CA-C	-5.21	102.04	110.32
1	AA	1031	G	N9-C1'-C2'	5.21	119.81	112.00
24	BA	60	G	C2'-C3'-O3'	-5.21	101.69	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	2585	U	C4'-C3'-O3'	-5.21	105.19	113.00
24	DA	271(C)	U	N1-C1'-C2'	5.21	119.81	112.00
24	DA	776	G	O4'-C1'-C2'	5.21	111.01	105.80
24	BA	387	U	C2'-C3'-O3'	5.20	117.31	109.50
1	AA	30	U	C2'-C3'-O3'	5.20	117.30	109.50
10	AM	46	ARG	N-CA-C	5.20	118.42	110.36
24	DA	226	G	C4'-C3'-O3'	-5.20	105.20	113.00
24	DA	1634	A	N9-C1'-C2'	5.20	121.80	114.00
1	CA	652	U	N1-C1'-C2'	5.20	119.80	112.00
24	DA	995	C	C1'-C2'-O2'	-5.20	104.01	111.80
24	BA	974	G	N9-C1'-C2'	5.19	119.79	112.00
30	BH	138	LYS	N-CA-C	-5.19	107.49	113.88
1	CA	971	G	C2'-C3'-O3'	-5.19	105.91	113.70
1	CA	566	G	C4'-C3'-O3'	5.19	117.19	109.40
24	DA	1962	C	C4'-C3'-O3'	5.19	117.19	109.40
24	BA	232	G	C4'-C3'-O3'	-5.19	105.21	113.00
24	BA	728	G	N9-C1'-C2'	5.19	121.78	114.00
24	BA	1618	A	N9-C1'-C2'	5.19	121.79	114.00
50	B5	4	HIS	N-CA-C	5.19	121.28	109.81
34	DO	147	LEU	N-CA-C	5.19	118.09	109.94
2	AE	152	PHE	N-CA-C	-5.19	107.62	114.31
24	DA	2750	A	C2'-C3'-O3'	5.19	117.28	109.50
1	CA	315	A	N9-C1'-C2'	5.19	119.78	112.00
29	BG	171	ALA	N-CA-C	-5.18	105.03	112.13
27	DE	97	LYS	N-CA-C	-5.18	103.16	110.31
34	DO	149	GLU	N-CA-C	5.18	118.10	107.37
24	BA	1565	C	N1-C1'-C2'	5.18	121.77	114.00
32	BM	73	THR	N-CA-C	5.18	117.89	109.24
46	DZ	72	GLU	N-CA-C	-5.18	106.06	112.38
24	BA	1252	G	C1'-C2'-O2'	-5.18	104.04	111.80
33	BN	58	VAL	N-CA-C	5.17	117.49	108.90
1	CA	1452	C	N1-C1'-C2'	5.17	121.76	114.00
27	DE	194	GLY	N-CA-C	-5.17	105.92	112.54
40	D2	6	LYS	N-CA-C	5.17	118.51	107.70
24	BA	1272	A	C2'-C3'-O3'	-5.17	101.74	109.50
32	BM	71	ILE	N-CA-C	5.17	115.82	106.61
24	DA	669	G	N9-C1'-C2'	5.17	119.75	112.00
24	BA	1332	G	O4'-C1'-C2'	5.17	110.97	105.80
24	DA	637	A	C2'-C3'-O3'	5.17	117.25	109.50
24	DA	2319	G	C4'-C3'-O3'	5.17	117.15	109.40
24	DA	2320	A	C2'-C3'-O3'	5.17	117.25	109.50
24	DA	2287	A	N9-C1'-C2'	5.17	119.75	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	DA	2425	A	C2'-C3'-O3'	-5.17	101.75	109.50
4	AG	12	CYS	CA-CB-SG	5.17	126.28	114.40
9	AL	51	ARG	N-CA-C	-5.16	107.65	114.31
17	AT	57	VAL	N-CA-C	5.16	117.28	108.86
24	BA	1204	A	N9-C1'-C2'	5.16	119.74	112.00
24	DA	1407	C	C5'-C4'-C3'	-5.16	108.26	116.00
25	BB	52	A	N9-C1'-C2'	5.16	119.74	112.00
24	DA	1250	G	C2'-C3'-O3'	5.16	117.24	109.50
24	DA	1804	C	C3'-C2'-O2'	5.16	118.44	110.70
9	AL	117	HIS	N-CA-C	-5.16	107.66	114.31
24	BA	1264	G	C2'-C3'-O3'	5.16	121.44	113.70
49	D4	38	LYS	N-CA-C	-5.16	105.88	113.72
31	DK	82	ARG	N-CA-C	-5.16	100.38	108.63
42	DT	35	THR	N-CA-C	5.16	117.64	109.24
27	DE	80	GLU	CA-C-N	-5.15	117.70	123.16
27	DE	80	GLU	C-N-CA	-5.15	117.70	123.16
24	BA	1925	C	O4'-C4'-C3'	-5.15	98.85	104.00
1	CA	653	A	N9-C1'-C2'	5.15	121.73	114.00
33	DN	58	VAL	N-CA-C	5.15	117.45	108.90
30	BH	167	GLU	N-CA-C	5.15	121.19	109.81
24	DA	748	G	N9-C1'-C2'	5.15	119.72	112.00
44	BV	170	THR	N-CA-C	5.14	118.45	110.17
1	CA	1285	A	C2'-C3'-O3'	5.14	117.22	109.50
24	BA	973	A	C4'-C3'-O3'	5.14	117.11	109.40
27	DE	79	ARG	N-CA-C	5.14	121.76	110.80
24	BA	739	G	N9-C1'-C2'	5.14	121.71	114.00
24	DA	1474	C	C5'-C4'-C3'	-5.14	108.29	116.00
48	BX	38	GLU	N-CA-C	-5.14	103.75	110.53
1	CA	752	G	N9-C1'-C2'	5.14	119.71	112.00
44	DV	129	SER	CA-C-N	5.14	126.27	119.84
44	DV	129	SER	C-N-CA	5.14	126.27	119.84
1	AA	1503	A	C2'-C3'-O3'	5.14	117.21	109.50
24	BA	1554	A	N9-C1'-C2'	5.14	121.70	114.00
24	BA	2210	G	C2'-C3'-O3'	5.14	117.20	109.50
26	DD	133	LEU	N-CA-C	5.13	117.54	111.33
1	CA	13	U	N1-C1'-C2'	5.13	121.70	114.00
24	DA	2597	G	N9-C1'-C2'	5.13	119.70	112.00
23	A1	20	A	N9-C1'-C2'	5.13	119.70	112.00
35	DP	90	VAL	N-CA-C	5.13	120.01	109.34
1	AA	1157	A	C4'-C3'-O3'	-5.13	105.31	113.00
16	AS	60	LEU	N-CA-C	-5.13	106.11	112.93
24	BA	1800	C	C4'-C3'-O3'	-5.13	101.71	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	DF	80	ALA	CA-C-N	5.13	125.42	119.47
28	DF	80	ALA	C-N-CA	5.13	125.42	119.47
24	DA	913	U	N1-C1'-C2'	5.13	121.69	114.00
39	B1	26	GLY	N-CA-C	5.13	120.56	111.02
24	DA	126	A	N9-C1'-C2'	5.13	119.69	112.00
47	DW	56	GLN	N-CA-C	-5.13	105.69	111.28
24	DA	530	G	N9-C1'-C2'	5.12	119.69	112.00
24	DA	669	G	C2'-C3'-O3'	-5.12	106.01	113.70
27	DE	46	ALA	N-CA-C	5.12	114.60	107.73
4	CG	27	TYR	N-CA-C	-5.12	107.69	114.04
24	DA	2035	G	N9-C1'-C2'	5.12	121.69	114.00
21	AX	12	LYS	N-CA-C	-5.12	107.16	113.41
26	BD	272	ALA	N-CA-C	5.12	121.71	110.80
23	C1	13	A	C2'-C3'-O3'	5.12	117.18	109.50
24	DA	1819	A	C2'-C3'-O3'	5.12	117.18	109.50
24	DA	2503	A	C4'-C3'-O3'	5.12	117.08	109.40
44	BV	140	ASP	N-CA-C	5.12	121.70	110.80
24	DA	2609	U	C4'-C3'-O3'	-5.12	101.72	109.40
45	D3	22	GLY	N-CA-C	5.12	118.22	111.52
24	BA	1566	A	C4'-C3'-O3'	-5.12	101.73	109.40
49	B4	3	GLU	N-CA-C	-5.11	102.48	110.10
9	CL	124	GLN	N-CA-C	5.11	117.58	109.96
34	BO	135	LEU	N-CA-C	-5.11	106.30	112.54
44	DV	116	VAL	N-CA-C	5.11	119.97	109.34
18	CU	86	VAL	N-CA-C	5.11	116.89	108.97
24	DA	1266	G	C2'-C3'-O3'	5.11	117.17	109.50
51	B6	7	ILE	N-CA-C	5.11	119.96	109.34
1	CA	1297	C	N1-C1'-C2'	5.11	119.66	112.00
24	DA	752	A	C2'-C3'-O3'	5.11	117.16	109.50
24	DA	1178	C	C2'-C3'-O3'	5.11	121.36	113.70
36	D0	9	LYS	CA-C-N	-5.11	115.95	122.79
36	D0	9	LYS	C-N-CA	-5.11	115.95	122.79
53	D8	53	PRO	N-CA-C	-5.11	101.95	112.47
26	BD	145	VAL	N-CA-C	5.11	115.47	108.12
37	BQ	103	GLU	N-CA-C	-5.11	105.70	112.34
1	CA	913	A	C2'-C3'-O3'	5.11	117.16	109.50
17	CT	71	PHE	N-CA-C	5.11	117.48	108.75
46	DZ	18	ILE	N-CA-C	5.11	114.92	107.37
1	AA	1001	G	N9-C1'-C2'	5.10	119.66	112.00
24	BA	1828	G	N9-C1'-C2'	5.10	121.66	114.00
49	B4	20	ASN	N-CA-C	5.10	117.88	110.17
44	DV	62	PRO	N-CA-C	-5.10	101.96	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BA	1294	U	C5'-C4'-C3'	-5.10	108.35	116.00
24	BA	2426	A	N9-C1'-C2'	5.10	121.65	114.00
27	BE	29	GLY	CA-C-N	5.10	126.22	119.84
27	BE	29	GLY	C-N-CA	5.10	126.22	119.84
24	DA	1653	G	O4'-C1'-C2'	5.10	110.90	105.80
41	DS	30	GLU	N-CA-C	-5.10	105.41	111.69
27	BE	93	VAL	N-CA-C	-5.10	108.32	113.47
1	CA	1157	A	N9-C1'-C2'	5.10	119.64	112.00
30	BH	133	VAL	N-CA-C	5.10	113.92	107.70
26	BD	65	ILE	N-CA-C	5.09	117.17	109.12
22	AC	18	G	C4'-C3'-O3'	-5.09	105.36	113.00
47	BW	47	ASN	N-CA-C	5.09	121.64	110.80
2	CE	144	ARG	N-CA-C	-5.09	105.81	111.36
24	DA	60	G	N9-C1'-C2'	5.09	121.63	114.00
1	AA	563	A	N9-C1'-C2'	5.09	119.63	112.00
22	AC	60	U	C2'-C3'-O3'	-5.09	106.07	113.70
24	DA	788	A	O4'-C1'-C2'	5.09	110.89	105.80
24	BA	403	U	C2'-C3'-O3'	5.08	117.13	109.50
24	DA	1926	U	C5'-C4'-C3'	-5.08	108.38	116.00
46	BZ	17	SER	N-CA-C	-5.08	100.89	109.07
5	CH	67	VAL	N-CA-C	5.08	114.89	107.88
24	BA	746	A	N9-C1'-C2'	5.08	121.62	114.00
1	CA	1395	C	N1-C1'-C2'	5.08	119.62	112.00
24	DA	1706	U	C2'-C3'-O3'	-5.08	101.88	109.50
43	BU	95	LYS	N-CA-C	5.08	116.96	108.99
24	BA	411	G	N9-C1'-C2'	5.08	121.61	114.00
26	BD	172	TYR	N-CA-C	5.08	117.08	110.53
1	CA	818	G	N9-C1'-C2'	5.08	121.61	114.00
24	BA	2092	U	N1-C1'-C2'	5.07	121.61	114.00
1	CA	8	A	N9-C1'-C2'	5.07	121.61	114.00
1	CA	1225	A	C2'-C3'-O3'	-5.07	106.09	113.70
24	DA	2725	A	C2'-C3'-O3'	5.07	117.11	109.50
1	CA	717	C	N1-C1'-C2'	5.07	121.60	114.00
27	BE	148	GLY	N-CA-C	-5.06	108.29	115.43
7	AJ	30	ILE	N-CA-C	-5.06	105.21	112.35
26	BD	88	ARG	N-CA-C	5.06	116.28	107.93
5	CH	90	VAL	N-CA-C	5.06	115.26	108.17
41	DS	103	ILE	N-CA-C	5.06	115.63	107.73
1	CA	328	C	C2'-C3'-O3'	5.06	117.09	109.50
50	D5	41	PRO	CA-C-N	5.06	126.16	119.84
50	D5	41	PRO	C-N-CA	5.06	126.16	119.84
24	BA	128	C	C4'-C3'-O3'	-5.06	105.41	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CA	575	G	O4'-C1'-C2'	5.06	110.86	105.80
46	DZ	17	SER	N-CA-C	-5.06	100.28	108.52
24	BA	362	U	N1-C1'-C2'	5.06	119.58	112.00
6	AI	11	ASN	CA-C-N	5.05	124.23	118.97
6	AI	11	ASN	C-N-CA	5.05	124.23	118.97
1	AA	1053	G	N9-C1'-C2'	5.05	119.58	112.00
24	BA	60	G	N9-C1'-C2'	5.05	121.58	114.00
1	CA	496	A	N9-C1'-C2'	5.05	119.58	112.00
24	BA	2346	A	N9-C1'-C2'	5.05	119.58	112.00
26	BD	214	TRP	N-CA-C	-5.05	105.66	111.07
19	CV	23	ASN	N-CA-C	-5.05	104.72	111.24
24	DA	2406	U	C4'-C3'-O3'	-5.05	105.42	113.00
20	AW	52	ALA	N-CA-C	-5.05	103.21	111.04
1	AA	547	A	C2'-C3'-O3'	5.05	117.07	109.50
29	BG	125	PHE	N-CA-C	5.05	116.75	108.52
34	DO	45	LEU	N-CA-C	5.05	117.93	110.46
1	AA	423	G	N9-C1'-C2'	5.04	119.57	112.00
29	BG	123	ASN	N-CA-C	-5.04	107.25	113.41
1	CA	366	C	C2'-C3'-O3'	5.04	117.07	109.50
2	CE	90	MET	CA-C-N	5.04	125.20	119.90
2	CE	90	MET	C-N-CA	5.04	125.20	119.90
24	DA	1236	G	C4'-C3'-O3'	5.04	116.97	109.40
1	AA	870	U	C2'-C3'-O3'	-5.04	106.14	113.70
24	BA	1378	A	C2'-C3'-O3'	5.04	117.06	109.50
47	DW	52	ASP	N-CA-C	-5.04	105.68	111.07
24	DA	811	U	N1-C1'-C2'	5.04	121.56	114.00
24	DA	2061	G	C4'-C3'-O3'	-5.04	101.84	109.40
24	BA	930	U	O4'-C1'-C2'	5.04	110.84	105.80
24	DA	574	C	C4'-C3'-O3'	-5.04	101.84	109.40
24	DA	2346	A	N9-C1'-C2'	5.04	121.56	114.00
30	DH	92	ILE	N-CA-C	5.04	119.82	109.34
24	BA	530	G	C2'-C3'-O3'	-5.04	106.15	113.70
24	DA	562	U	C4'-C3'-O3'	-5.04	105.45	113.00
24	DA	2336	A	O4'-C1'-C2'	5.04	110.84	105.80
25	DB	44	G	N9-C1'-C2'	5.04	119.56	112.00
13	AP	84	ILE	N-CA-C	-5.03	98.87	109.34
22	AD	19	G	N9-C1'-C2'	5.03	119.55	112.00
24	BA	1758	G	N9-C1'-C2'	5.03	121.55	114.00
12	AO	28	LYS	N-CA-C	-5.03	104.49	111.28
16	AS	33	ILE	CB-CA-C	-5.03	105.28	112.22
28	BF	64	ILE	N-CA-C	5.03	117.38	111.09
1	CA	748	C	C2'-C3'-O3'	5.03	117.05	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	DG	43	LEU	N-CA-C	5.03	117.31	108.56
24	BA	1236	G	C2'-C3'-O3'	-5.03	101.96	109.50
1	CA	890	G	C5'-C4'-C3'	5.03	122.74	115.20
20	AW	93	GLU	N-CA-C	-5.02	107.10	113.18
24	BA	1247	A	C4'-C3'-O3'	-5.02	101.86	109.40
1	CA	1298	C	C4'-C3'-O3'	-5.02	105.46	113.00
24	BA	2425	A	N9-C1'-C2'	5.02	121.53	114.00
29	BG	28	VAL	N-CA-C	5.02	117.37	111.09
1	AA	8	A	C4'-C3'-O3'	-5.02	101.87	109.40
24	BA	1341	U	P-O3'-C3'	5.02	127.73	120.20
9	AL	89	ASN	CA-C-N	5.02	126.11	119.84
9	AL	89	ASN	C-N-CA	5.02	126.11	119.84
1	CA	1201	A	N9-C1'-C2'	5.02	119.53	112.00
5	AH	32	VAL	N-CA-C	5.02	115.60	108.42
26	DD	136	ILE	CA-C-N	5.02	125.80	119.98
26	DD	136	ILE	C-N-CA	5.02	125.80	119.98
24	DA	1835	G	C5'-C4'-C3'	-5.01	108.48	116.00
24	BA	2518	A	C2'-C3'-O3'	-5.01	106.18	113.70
24	DA	442	G	O4'-C1'-C2'	5.01	110.81	105.80
24	DA	1616	A	N9-C1'-C2'	5.01	121.52	114.00
26	DD	243	GLY	N-CA-C	-5.01	107.88	114.95
32	DM	59	LYS	N-CA-C	-5.01	104.09	111.81
24	BA	1781	C	O4'-C1'-C2'	5.01	110.81	105.80
24	BA	1937	A	O4'-C1'-C2'	5.01	110.81	105.80
24	BA	1944	U	N1-C1'-C2'	5.01	121.51	114.00
1	CA	466	C	C2'-C3'-O3'	-5.01	106.19	113.70
20	CW	14	LYS	N-CA-C	-5.01	105.10	111.11
24	DA	139	G	O4'-C1'-C2'	5.01	110.81	105.80
38	DR	63	VAL	N-CA-C	5.01	115.12	108.11
44	BV	153	SER	N-CA-C	-5.01	107.32	112.93
28	BF	29	ASN	CA-C-N	5.01	126.10	119.84
28	BF	29	ASN	C-N-CA	5.01	126.10	119.84
24	DA	74	A	O4'-C1'-C2'	5.01	110.81	105.80
42	BT	13	LEU	N-CA-C	5.00	117.30	108.24
24	BA	1559	G	N9-C1'-C2'	5.00	119.50	112.00

There are no chirality outliers.

All (416) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
23	A1	11	U	Sidechain
23	A1	4	A	Sidechain

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Mol	Chain	Res	Type	Group
23	A1	9	G	Sidechain
1	AA	1001	G	Sidechain
1	AA	1006	C	Sidechain
1	AA	1036	G	Sidechain
1	AA	1039	C	Sidechain
1	AA	1040	U	Sidechain
1	AA	1049	U	Sidechain
1	AA	1053	G	Sidechain
1	AA	1064	G	Sidechain
1	AA	1067	A	Sidechain
1	AA	1122	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1128	C	Sidechain
1	AA	1143	G	Sidechain
1	AA	1159	U	Sidechain
1	AA	1201	A	Sidechain
1	AA	1205	U	Sidechain
1	AA	1247	U	Sidechain
1	AA	1285	A	Sidechain
1	AA	1537	U	Sidechain
1	AA	1540	U	Sidechain
1	AA	1541	U	Sidechain
1	AA	189	U	Sidechain
1	AA	190	G	Sidechain
1	AA	197	A	Sidechain
1	AA	250	A	Sidechain
1	AA	251	G	Sidechain
1	AA	252	U	Sidechain
1	AA	266	G	Sidechain
1	AA	30	U	Sidechain
1	AA	326	G	Sidechain
1	AA	345	C	Sidechain
1	AA	367	U	Sidechain
1	AA	403	C	Sidechain
1	AA	47	C	Sidechain
1	AA	49	U	Sidechain
1	AA	501	C	Sidechain
1	AA	51	A	Sidechain
1	AA	517	G	Sidechain
1	AA	527	G	Sidechain
1	AA	528	C	Sidechain
1	AA	575	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	689	C	Sidechain
1	AA	703	G	Sidechain
1	AA	788	U	Sidechain
1	AA	818	G	Sidechain
1	AA	82	U	Sidechain
1	AA	87	A	Sidechain
1	AA	880	C	Sidechain
1	AA	883	C	Sidechain
1	AA	921	U	Sidechain
1	AA	922	G	Sidechain
1	AA	923	A	Sidechain
1	AA	974	A	Sidechain
1	AA	999	U	Sidechain
22	AC	16	C	Sidechain
22	AC	7	G	Sidechain
22	AD	19	G	Sidechain
22	AD	7	G	Sidechain
24	BA	1025	G	Sidechain
24	BA	1026	U	Sidechain
24	BA	1082	U	Sidechain
24	BA	1153	C	Sidechain
24	BA	1204	A	Sidechain
24	BA	1215	G	Sidechain
24	BA	1247	A	Sidechain
24	BA	1249	U	Sidechain
24	BA	125	G	Sidechain
24	BA	1252	G	Sidechain
24	BA	1266	G	Sidechain
24	BA	1294	U	Sidechain
24	BA	1300	U	Sidechain
24	BA	1311	G	Sidechain
24	BA	1312	U	Sidechain
24	BA	1330	C	Sidechain
24	BA	1359	A	Sidechain
24	BA	1372	U	Sidechain
24	BA	1397	U	Sidechain
24	BA	1415	U	Sidechain
24	BA	1462	C	Sidechain
24	BA	1607	C	Sidechain
24	BA	1618	A	Sidechain
24	BA	1663	C	Sidechain
24	BA	1667	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1681	G	Sidechain
24	BA	1693	U	Sidechain
24	BA	1694	C	Sidechain
24	BA	1763	G	Sidechain
24	BA	1772	G	Sidechain
24	BA	1774	C	Sidechain
24	BA	1775	U	Sidechain
24	BA	1779	U	Sidechain
24	BA	1802	A	Sidechain
24	BA	1807	G	Sidechain
24	BA	1808	U	Sidechain
24	BA	1818	U	Sidechain
24	BA	1828	G	Sidechain
24	BA	1900	A	Sidechain
24	BA	1925	C	Sidechain
24	BA	1929	G	Sidechain
24	BA	1930	G	Sidechain
24	BA	1962	C	Sidechain
24	BA	1966	A	Sidechain
24	BA	1971	A	Sidechain
24	BA	1992	G	Sidechain
24	BA	200	U	Sidechain
24	BA	2019	A	Sidechain
24	BA	2022	U	Sidechain
24	BA	2031	A	Sidechain
24	BA	2032	G	Sidechain
24	BA	2034	U	Sidechain
24	BA	205	G	Sidechain
24	BA	2050	C	Sidechain
24	BA	2059	A	Sidechain
24	BA	2078	C	Sidechain
24	BA	2110	G	Sidechain
24	BA	2229	C	Sidechain
24	BA	2250	G	Sidechain
24	BA	226	G	Sidechain
24	BA	2262	U	Sidechain
24	BA	2275	C	Sidechain
24	BA	2278	A	Sidechain
24	BA	2304	G	Sidechain
24	BA	2311	A	Sidechain
24	BA	2319	G	Sidechain
24	BA	232	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2345	G	Sidechain
24	BA	2346	A	Sidechain
24	BA	2401	U	Sidechain
24	BA	2406	U	Sidechain
24	BA	2447	G	Sidechain
24	BA	2458	G	Sidechain
24	BA	250	G	Sidechain
24	BA	2542	A	Sidechain
24	BA	2563	U	Sidechain
24	BA	2596	U	Sidechain
24	BA	2611	U	Sidechain
24	BA	2656	U	Sidechain
24	BA	2684	U	Sidechain
24	BA	2696	U	Sidechain
24	BA	2702	U	Sidechain
24	BA	2712	U	Sidechain
24	BA	2720	U	Sidechain
24	BA	2725	A	Sidechain
24	BA	2747	G	Sidechain
24	BA	2779	U	Sidechain
24	BA	2789	C	Sidechain
24	BA	2791	C	Sidechain
24	BA	2817	G	Sidechain
24	BA	2835	A	Sidechain
24	BA	2857	G	Sidechain
24	BA	305	U	Sidechain
24	BA	307	G	Sidechain
24	BA	33	U	Sidechain
24	BA	370	G	Sidechain
24	BA	384	U	Sidechain
24	BA	385	C	Sidechain
24	BA	387	U	Sidechain
24	BA	403	U	Sidechain
24	BA	411	G	Sidechain
24	BA	434	U	Sidechain
24	BA	448	U	Sidechain
24	BA	463	G	Sidechain
24	BA	475	U	Sidechain
24	BA	500	G	Sidechain
24	BA	509	C	Sidechain
24	BA	524	U	Sidechain
24	BA	529	A	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	562	U	Sidechain
24	BA	566	U	Sidechain
24	BA	607	U	Sidechain
24	BA	630	G	Sidechain
24	BA	654(R)	C	Sidechain
24	BA	666	G	Sidechain
24	BA	670	A	Sidechain
24	BA	683	C	Sidechain
24	BA	686	G	Sidechain
24	BA	70	G	Sidechain
24	BA	700	G	Sidechain
24	BA	72	U	Sidechain
24	BA	738	G	Sidechain
24	BA	757	U	Sidechain
24	BA	787	U	Sidechain
24	BA	788	A	Sidechain
24	BA	803	U	Sidechain
24	BA	811	U	Sidechain
24	BA	816	C	Sidechain
24	BA	826	U	Sidechain
24	BA	833	U	Sidechain
24	BA	84	A	Sidechain
24	BA	859	G	Sidechain
24	BA	913	U	Sidechain
24	BA	932	G	Sidechain
24	BA	956	G	Sidechain
24	BA	99	U	Sidechain
25	BB	12	C	Sidechain
25	BB	55	U	Sidechain
25	BB	81	G	Sidechain
25	BB	95	U	Sidechain
23	C1	11	U	Sidechain
23	C1	18	G	Sidechain
23	C1	9	G	Sidechain
1	CA	1003	G	Sidechain
1	CA	1020	U	Sidechain
1	CA	1036	G	Sidechain
1	CA	1040	U	Sidechain
1	CA	1064	G	Sidechain
1	CA	1067	A	Sidechain
1	CA	1077	G	Sidechain
1	CA	1129	C	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	114	U	Sidechain
1	CA	1150	U	Sidechain
1	CA	1240	U	Sidechain
1	CA	130	A	Sidechain
1	CA	1301	U	Sidechain
1	CA	1313	U	Sidechain
1	CA	1336	C	Sidechain
1	CA	1364	U	Sidechain
1	CA	1380	U	Sidechain
1	CA	1502	A	Sidechain
1	CA	1510	U	Sidechain
1	CA	1512	U	Sidechain
1	CA	1513	A	Sidechain
1	CA	1536	C	Sidechain
1	CA	189	U	Sidechain
1	CA	250	A	Sidechain
1	CA	251	G	Sidechain
1	CA	281	G	Sidechain
1	CA	290	C	Sidechain
1	CA	342	C	Sidechain
1	CA	367	U	Sidechain
1	CA	388	G	Sidechain
1	CA	403	C	Sidechain
1	CA	501	C	Sidechain
1	CA	518	C	Sidechain
1	CA	556	C	Sidechain
1	CA	574	A	Sidechain
1	CA	575	G	Sidechain
1	CA	586	C	Sidechain
1	CA	652	U	Sidechain
1	CA	657	G	Sidechain
1	CA	686	U	Sidechain
1	CA	689	C	Sidechain
1	CA	702	A	Sidechain
1	CA	727	G	Sidechain
1	CA	760	G	Sidechain
1	CA	794	A	Sidechain
1	CA	82	U	Sidechain
1	CA	870	U	Sidechain
1	CA	873	A	Sidechain
1	CA	898	G	Sidechain
1	CA	93	U	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	946	A	Sidechain
1	CA	97	U	Sidechain
1	CA	974	A	Sidechain
22	CD	24	U	Sidechain
24	DA	1012	U	Sidechain
24	DA	1025	G	Sidechain
24	DA	1058	U	Sidechain
24	DA	1076	C	Sidechain
24	DA	1082	U	Sidechain
24	DA	1086	A	Sidechain
24	DA	1128	A	Sidechain
24	DA	1131	G	Sidechain
24	DA	1156	A	Sidechain
24	DA	1204	A	Sidechain
24	DA	1220	A	Sidechain
24	DA	1240	U	Sidechain
24	DA	1247	A	Sidechain
24	DA	1249	U	Sidechain
24	DA	1294	U	Sidechain
24	DA	1300	U	Sidechain
24	DA	1312	U	Sidechain
24	DA	1323	U	Sidechain
24	DA	1330	C	Sidechain
24	DA	1340	U	Sidechain
24	DA	1349	A	Sidechain
24	DA	1352	U	Sidechain
24	DA	1360	A	Sidechain
24	DA	1363	C	Sidechain
24	DA	1372	U	Sidechain
24	DA	1397	U	Sidechain
24	DA	1450	C	Sidechain
24	DA	1451	C	Sidechain
24	DA	1534	G	Sidechain
24	DA	1537	C	Sidechain
24	DA	1543	A	Sidechain
24	DA	1558	A	Sidechain
24	DA	1564	C	Sidechain
24	DA	1566	A	Sidechain
24	DA	1567	A	Sidechain
24	DA	1619	G	Sidechain
24	DA	1623	G	Sidechain
24	DA	1647	G	Sidechain

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Mol	Chain	Res	Type	Group
24	DA	1654	A	Sidechain
24	DA	1664	A	Sidechain
24	DA	1667	G	Sidechain
24	DA	1693	U	Sidechain
24	DA	1694	C	Sidechain
24	DA	1699	G	Sidechain
24	DA	1773	A	Sidechain
24	DA	1774	C	Sidechain
24	DA	1775	U	Sidechain
24	DA	1779	U	Sidechain
24	DA	1781	C	Sidechain
24	DA	1788	C	Sidechain
24	DA	1802	A	Sidechain
24	DA	1807	G	Sidechain
24	DA	1808	U	Sidechain
24	DA	1834	U	Sidechain
24	DA	1898	U	Sidechain
24	DA	1902	C	Sidechain
24	DA	1925	C	Sidechain
24	DA	1929	G	Sidechain
24	DA	1934	C	Sidechain
24	DA	1936	A	Sidechain
24	DA	1964	G	Sidechain
24	DA	1968	G	Sidechain
24	DA	1992	G	Sidechain
24	DA	2009	G	Sidechain
24	DA	201	C	Sidechain
24	DA	2031	A	Sidechain
24	DA	2034	U	Sidechain
24	DA	2049	G	Sidechain
24	DA	2052	G	Sidechain
24	DA	2053	G	Sidechain
24	DA	2062	A	Sidechain
24	DA	2078	C	Sidechain
24	DA	2086	U	Sidechain
24	DA	222	A	Sidechain
24	DA	2266	A	Sidechain
24	DA	2283	C	Sidechain
24	DA	2336	A	Sidechain
24	DA	2345	G	Sidechain
24	DA	2390	U	Sidechain
24	DA	24	G	Sidechain

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Mol	Chain	Res	Type	Group
24	DA	2406	U	Sidechain
24	DA	2426	A	Sidechain
24	DA	2460	U	Sidechain
24	DA	2489	G	Sidechain
24	DA	249	C	Sidechain
24	DA	2511	U	Sidechain
24	DA	2521	C	Sidechain
24	DA	2542	A	Sidechain
24	DA	2545	G	Sidechain
24	DA	2555	U	Sidechain
24	DA	2563	U	Sidechain
24	DA	2564	A	Sidechain
24	DA	2582	G	Sidechain
24	DA	2587	A	Sidechain
24	DA	2597	G	Sidechain
24	DA	2605	U	Sidechain
24	DA	265	A	Sidechain
24	DA	2656	U	Sidechain
24	DA	2665	A	Sidechain
24	DA	2681	C	Sidechain
24	DA	2684	U	Sidechain
24	DA	2702	U	Sidechain
24	DA	2746	U	Sidechain
24	DA	2779	U	Sidechain
24	DA	2780	G	Sidechain
24	DA	2789	C	Sidechain
24	DA	2791	C	Sidechain
24	DA	28	A	Sidechain
24	DA	2873	A	Sidechain
24	DA	2878	U	Sidechain
24	DA	329	G	Sidechain
24	DA	362	U	Sidechain
24	DA	363(E)	U	Sidechain
24	DA	370	G	Sidechain
24	DA	385	C	Sidechain
24	DA	387	U	Sidechain
24	DA	427	U	Sidechain
24	DA	448	U	Sidechain
24	DA	463	G	Sidechain
24	DA	47	C	Sidechain
24	DA	473	G	Sidechain
24	DA	487	C	Sidechain

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Mol	Chain	Res	Type	Group
24	DA	497	A	Sidechain
24	DA	508	G	Sidechain
24	DA	511	U	Sidechain
24	DA	52	A	Sidechain
24	DA	566	U	Sidechain
24	DA	607	U	Sidechain
24	DA	616	A	Sidechain
24	DA	620	G	Sidechain
24	DA	621	A	Sidechain
24	DA	670	A	Sidechain
24	DA	675	A	Sidechain
24	DA	680	G	Sidechain
24	DA	683	C	Sidechain
24	DA	684	G	Sidechain
24	DA	70	G	Sidechain
24	DA	72	U	Sidechain
24	DA	733	G	Sidechain
24	DA	739	G	Sidechain
24	DA	74	A	Sidechain
24	DA	747	U	Sidechain
24	DA	778	G	Sidechain
24	DA	783	A	Sidechain
24	DA	788	A	Sidechain
24	DA	792	G	Sidechain
24	DA	83	G	Sidechain
24	DA	85	G	Sidechain
24	DA	859	G	Sidechain
24	DA	906	G	Sidechain
24	DA	913	U	Sidechain
24	DA	956	G	Sidechain
24	DA	995	C	Sidechain
25	DB	66	A	Sidechain
25	DB	72	G	Sidechain
25	DB	81	G	Sidechain
25	DB	90	C	Sidechain
25	DB	95	U	Sidechain

4.2 Too-close contacts (i)

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

the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32600	0	16446	1810	2
1	CA	32554	0	16428	1782	16
2	AE	1915	0	1969	392	0
2	CE	1924	0	1975	312	0
3	AF	1612	0	1677	318	0
3	CF	1605	0	1668	221	0
4	AG	1703	0	1764	272	0
4	CG	1703	0	1763	260	0
5	AH	1178	0	1233	157	0
5	CH	1155	0	1213	148	0
6	AI	843	0	857	112	0
6	CI	843	0	857	108	0
7	AJ	1257	0	1296	187	0
7	CJ	1257	0	1296	166	0
8	AK	1116	0	1177	157	0
8	CK	1116	0	1177	160	0
9	AL	1018	0	1049	223	0
9	CL	1010	0	1037	166	0
10	AM	801	0	849	158	0
10	CM	801	0	849	151	0
11	AN	901	0	926	126	0
11	CN	885	0	904	112	0
12	AO	975	0	1062	141	0
12	CO	975	0	1062	116	0
13	AP	937	0	995	211	0
13	CP	964	0	1034	164	0
14	AQ	492	0	529	71	0
14	CQ	492	0	529	100	0
15	AR	734	0	771	104	0
15	CR	734	0	771	88	0
16	AS	705	0	725	78	0
16	CS	705	0	725	134	0
17	AT	834	0	904	65	0
17	CT	834	0	904	87	0
18	AU	585	0	657	106	0
18	CU	574	0	644	82	0
19	AV	656	0	678	176	0
19	CV	674	0	699	143	0
20	AW	763	0	861	92	0
20	CW	763	0	861	128	0
21	AX	217	0	234	35	0
21	CX	217	0	234	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	AC	1640	0	836	71	0
22	AD	1640	0	836	119	0
22	CB	1385	0	704	65	0
22	CC	1640	0	836	41	0
22	CD	1640	0	834	97	0
23	A1	502	0	253	40	0
23	C1	502	0	253	38	0
24	BA	62134	0	31302	3013	2
24	DA	62151	0	31309	2783	0
25	BB	2572	0	1305	184	0
25	DB	2573	0	1305	139	0
26	BD	2115	0	2195	321	0
26	DD	2115	0	2195	351	0
27	BE	1568	0	1634	294	0
27	DE	1568	0	1634	301	0
28	BF	1627	0	1680	277	0
28	DF	1585	0	1632	204	0
29	BG	1474	0	1535	277	0
29	DG	1474	0	1535	222	0
30	BH	1307	0	1382	335	16
30	DH	1307	0	1382	239	0
31	BK	1136	0	1223	216	0
31	DK	1136	0	1223	218	0
32	BM	1104	0	1180	144	0
32	DM	1104	0	1180	208	0
33	BN	933	0	996	120	0
33	DN	933	0	996	133	0
34	BO	1145	0	1228	271	0
34	DO	1145	0	1228	272	0
35	BP	1122	0	1179	251	0
35	DP	1122	0	1179	163	0
36	B0	960	0	1021	129	0
36	D0	968	0	1033	120	0
37	BQ	882	0	943	172	0
37	DQ	882	0	943	172	0
38	BR	1141	0	1202	165	0
38	DR	1141	0	1202	165	0
39	B1	964	0	1022	167	0
39	D1	964	0	1022	141	0
40	B2	779	0	852	196	0
40	D2	779	0	851	140	0
41	BS	900	0	964	115	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	DS	900	0	964	109	0
42	BT	725	0	778	92	0
42	DT	725	0	778	76	0
43	BU	785	0	878	216	0
43	DU	785	0	878	170	0
44	BV	1404	0	1437	327	0
44	DV	1378	0	1407	245	0
45	B3	629	0	650	78	0
45	D3	611	0	631	63	0
46	BZ	763	0	848	111	0
46	DZ	763	0	848	147	0
47	BW	581	0	629	114	0
47	DW	581	0	629	89	0
48	BX	469	0	518	41	0
48	DX	469	0	518	45	0
49	B4	581	0	573	171	0
49	D4	581	0	574	168	0
50	B5	459	0	480	53	0
50	D5	459	0	480	80	0
51	B6	417	0	441	96	0
51	D6	424	0	450	100	0
52	B7	430	0	480	57	0
52	D7	430	0	480	50	0
53	B8	517	0	582	143	0
53	D8	517	0	582	115	0
54	A1	1	0	0	0	0
54	AA	440	0	0	0	0
54	AC	8	0	0	0	0
54	AD	3	0	0	0	0
54	AH	2	0	0	0	0
54	AI	1	0	0	0	0
54	AJ	1	0	0	0	0
54	AK	1	0	0	0	0
54	AL	2	0	0	0	0
54	AO	1	0	0	0	0
54	AP	1	0	0	0	0
54	AQ	1	0	0	0	0
54	AS	2	0	0	0	0
54	AT	2	0	0	0	0
54	AW	4	0	0	0	0
54	AX	1	0	0	0	0
54	B0	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	B1	1	0	0	0	0
54	B3	2	0	0	0	0
54	B4	1	0	0	0	0
54	B5	1	0	0	0	0
54	B6	1	0	0	0	0
54	B8	1	0	0	0	0
54	BA	683	0	0	0	0
54	BB	26	0	0	0	0
54	BD	2	0	0	0	0
54	BE	7	0	0	0	0
54	BF	2	0	0	0	0
54	BG	1	0	0	0	0
54	BH	1	0	0	0	0
54	BK	1	0	0	0	0
54	BO	1	0	0	0	0
54	BQ	1	0	0	0	0
54	BR	2	0	0	0	0
54	BT	2	0	0	0	0
54	BU	5	0	0	0	0
54	BW	1	0	0	0	0
54	BZ	1	0	0	0	0
54	C1	1	0	0	0	0
54	CA	384	0	0	0	0
54	CC	13	0	0	0	0
54	CD	26	0	0	0	0
54	CG	1	0	0	0	0
54	CH	2	0	0	0	0
54	CK	2	0	0	0	0
54	CL	1	0	0	0	0
54	CM	1	0	0	0	0
54	CP	4	0	0	0	0
54	CQ	3	0	0	0	0
54	CR	1	0	0	0	0
54	CS	2	0	0	0	0
54	CT	1	0	0	0	0
54	CW	5	0	0	0	0
54	CX	2	0	0	0	0
54	D0	5	0	0	0	0
54	D1	6	0	0	0	0
54	D2	1	0	0	0	0
54	D3	4	0	0	0	0
54	D5	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	D6	2	0	0	0	0
54	D7	1	0	0	0	0
54	DA	905	0	0	0	0
54	DB	29	0	0	0	0
54	DD	3	0	0	0	0
54	DE	3	0	0	0	0
54	DF	1	0	0	0	0
54	DG	3	0	0	0	0
54	DH	4	0	0	0	0
54	DO	5	0	0	0	0
54	DR	2	0	0	0	0
54	DS	1	0	0	0	0
54	DT	2	0	0	0	0
54	DU	6	0	0	0	0
54	DW	2	0	0	0	0
54	DZ	2	0	0	0	0
55	AA	2	0	0	0	0
55	AG	1	0	0	0	0
55	AQ	1	0	0	0	0
55	CG	1	0	0	0	0
55	CQ	1	0	0	0	0
All	All	298428	0	200046	23495	18

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 47.

All (23495) 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)
30:DH:127:GLU:CG	30:DH:128:PRO:HD3	1.36	1.52
24:BA:654(R):C:C2	24:BA:654(R):C:C5'	1.96	1.45
24:DA:1378:A:O2'	24:DA:1379:A:C5'	1.64	1.44
49:B4:12:ALA:CB	49:B4:23:GLU:O	1.68	1.41
24:BA:654(R):C:C5'	24:BA:654(R):C:C4	2.07	1.38
46:DZ:81:LYS:HA	46:DZ:81:LYS:NZ	1.43	1.34
24:BA:1899:G:N2	24:BA:1902:C:H41	1.27	1.31
24:BA:654(R):C:C5'	24:BA:654(R):C:C6	2.15	1.29
1:CA:73:G:N2	1:CA:74:C:H41	1.26	1.28
24:BA:654(R):C:C4	24:BA:654(R):C:P	2.25	1.27
24:BA:654(R):C:C5'	24:BA:654(R):C:O5'	1.79	1.27
1:CA:792:A:H2'	1:CA:794:A:N6	1.48	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:81:LYS:HE2	46:DZ:81:LYS:N	1.50	1.26
24:BA:654(R):C:C5'	24:BA:654(R):C:N3	1.99	1.26
1:CA:792:A:C2'	1:CA:794:A:H62	1.49	1.25
24:BA:1378:A:O2'	24:BA:1379:A:C5'	1.84	1.24
24:BA:654(R):C:C5'	24:BA:654(R):C:N1	1.88	1.24
24:BA:654(R):C:C5'	24:BA:654(R):C:C5	2.22	1.23
35:BP:77:LYS:NZ	35:BP:82:ARG:CB	2.02	1.22
35:BP:77:LYS:NZ	35:BP:82:ARG:HB2	1.52	1.22
30:DH:127:GLU:HG2	30:DH:128:PRO:CD	1.69	1.21
46:DZ:82:LEU:C	46:DZ:82:LEU:HD12	1.66	1.21
24:DA:1378:A:O2'	24:DA:1379:A:H5"	1.08	1.20
30:DH:127:GLU:CB	30:DH:128:PRO:HD3	1.69	1.20
11:AN:13:GLN:HB3	11:AN:75:TYR:O	1.37	1.20
24:BA:654(R):C:C5	24:BA:654(R):C:H5'	1.77	1.19
24:BA:1378:A:O2'	24:BA:1379:A:H5"	1.02	1.19
24:BA:2758:A:H2'	24:BA:2759:G:H5"	1.20	1.19
31:BK:79:ILE:N	31:BK:142:VAL:HG21	1.56	1.19
49:B4:10:VAL:CG1	49:B4:11:PRO:HD3	1.70	1.19
53:B8:23:VAL:HG13	53:B8:48:PHE:O	1.40	1.18
22:AD:70:G:H2'	22:AD:71:C:H5"	1.22	1.18
23:A1:8:A:H3'	23:A1:9:G:H5"	1.19	1.16
43:DU:76:CYS:HB3	43:DU:96:ILE:HD13	1.17	1.16
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.00	1.16
43:DU:95:LYS:HB3	43:DU:100:ALA:HA	1.20	1.16
1:CA:1007:C:H2'	1:CA:1008:C:H5"	1.20	1.16
1:AA:827:U:H3	1:AA:872:A:N6	1.43	1.15
1:AA:64:G:H4'	1:AA:65:U:H5"	1.28	1.15
12:AO:45:PRO:HG3	12:AO:50:SER:HA	1.29	1.15
24:BA:1887:C:H2'	24:BA:1888:G:H5"	1.22	1.14
49:B4:10:VAL:HG12	49:B4:11:PRO:CD	1.77	1.14
24:BA:1899:G:H22	24:BA:1902:C:N4	1.44	1.14
33:BN:88:ASN:HD21	33:BN:90:GLN:HB2	1.14	1.13
49:B4:12:ALA:HB2	49:B4:23:GLU:O	1.36	1.13
9:AL:16:ARG:HB2	9:AL:16:ARG:HH11	1.12	1.13
24:BA:2519:U:H4'	24:BA:2520:C:OP1	1.46	1.13
2:CE:101:MET:HA	2:CE:108:ILE:HG13	1.25	1.13
49:B4:12:ALA:HB1	49:B4:23:GLU:C	1.73	1.13
2:AE:133:LYS:HD2	2:AE:137:ARG:HH12	1.01	1.12
44:BV:95:PRO:O	44:BV:96:VAL:HG23	1.45	1.13
13:AP:9:ILE:HB	13:AP:10:PRO:CD	1.77	1.12
34:DO:50:ARG:HB3	34:DO:50:ARG:HH21	1.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1065:U:H3'	24:DA:1066:U:H5"	1.28	1.12
24:DA:1507:A:H3'	24:DA:1508:A:H5"	1.31	1.12
46:DZ:82:LEU:CD1	46:DZ:83:GLU:O	1.97	1.12
31:DK:92:VAL:HG13	31:DK:120:ILE:HG23	1.32	1.12
24:BA:2701:C:H3'	24:BA:2702:U:H5"	1.23	1.11
27:DE:179:GLU:HB3	27:DE:181:LEU:HD23	1.32	1.11
39:D1:8:VAL:HG23	39:D1:11:ARG:HH21	1.14	1.11
44:DV:152:ALA:HB2	44:DV:169:GLU:HB3	1.15	1.11
46:DZ:81:LYS:HZ3	46:DZ:81:LYS:CA	1.63	1.11
30:BH:12:PRO:HB3	30:BH:49:VAL:HB	1.30	1.11
24:DA:1077:A:H3'	24:DA:1078:U:H5"	1.32	1.11
24:DA:1081:U:H3'	24:DA:1082:U:H4'	1.21	1.11
46:DZ:82:LEU:HD12	46:DZ:83:GLU:N	1.66	1.11
24:BA:1359:A:N6	24:BA:1373:A:C4	2.19	1.11
30:BH:30:LYS:HD2	30:BH:79:VAL:HA	1.31	1.11
26:DD:44:ASN:HB2	26:DD:48:ARG:O	1.50	1.11
24:BA:1484:G:H2'	24:BA:1485:G:H5"	1.15	1.11
43:BU:15:VAL:HB	43:BU:22:GLY:HA2	1.26	1.11
24:DA:1318:C:H2'	24:DA:1319:G:H5"	1.31	1.11
28:DF:101:LEU:HD12	28:DF:102:PRO:HD2	1.21	1.11
30:BH:126:PRO:HB2	30:BH:127:GLU:CA	1.82	1.10
36:B0:37:THR:HG22	36:B0:39:PRO:HD2	1.11	1.10
7:AJ:113:GLU:HB2	7:AJ:119:ARG:HG2	1.31	1.10
30:DH:132:ARG:HB2	30:DH:132:ARG:HH11	1.10	1.10
34:BO:146:VAL:HG22	34:BO:147:LEU:HD13	1.33	1.10
24:DA:483:A:H4'	43:DU:49:VAL:HA	1.11	1.10
24:DA:2795:G:H3'	24:DA:2797:U:H5'	1.16	1.10
32:DM:1:MET:HE1	39:D1:95:LEU:HD21	1.27	1.10
24:BA:877:U:H2'	24:BA:878:A:H5"	1.32	1.10
24:BA:1826:G:H4'	26:BD:242:ARG:HH21	0.94	1.10
49:B4:12:ALA:HB1	49:B4:23:GLU:O	1.47	1.10
24:DA:1693:U:O2'	26:DD:14:ARG:NH2	1.82	1.10
31:BK:82:ARG:HH21	1:CA:56:U:H4'	1.15	1.10
40:B2:35:LEU:HD21	40:B2:57:VAL:HB	1.20	1.10
24:DA:277:C:H3'	24:DA:278:A:C5'	1.82	1.09
27:DE:50:GLY:HA2	27:DE:77:ILE:HA	1.31	1.09
49:B4:6:HIS:HB2	49:B4:7:PRO:HA	1.19	1.09
1:CA:1226:C:H4'	1:CA:1227:A:OP1	1.50	1.09
24:DA:1049:C:H2'	24:DA:1050:A:H5"	1.34	1.09
24:DA:2701:C:H3'	24:DA:2702:U:H5"	1.20	1.09
32:DM:134:ARG:H	32:DM:135:PRO:HD3	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:21:ARG:HH11	3:AF:21:ARG:HB3	1.09	1.09
24:BA:33:U:H4'	24:BA:34:C:OP1	1.52	1.09
50:B5:4:HIS:HB3	50:B5:5:PRO:HD3	1.19	1.09
29:BG:17:PRO:HA	29:BG:20:ILE:HG12	1.31	1.08
46:BZ:91:LYS:HE3	46:BZ:91:LYS:HA	1.19	1.08
15:CR:87:ILE:HG22	15:CR:88:ARG:H	1.18	1.08
24:DA:888:C:H3'	24:DA:889:C:H4'	1.35	1.08
24:DA:1484:G:H2'	24:DA:1485:G:H5"	1.33	1.08
9:AL:28:VAL:HG22	9:AL:29:ASN:H	1.09	1.08
2:CE:80:ILE:HD11	2:CE:208:ILE:HG23	1.34	1.08
3:CF:15:THR:HG23	3:CF:181:ASN:HA	1.35	1.08
30:DH:152:ARG:HG3	30:DH:153:LYS:HE2	1.33	1.08
30:DH:86:GLU:HG3	30:DH:165:ALA:H	1.06	1.08
24:BA:1342:A:O2'	24:BA:1344:G:OP2	1.68	1.08
31:BK:79:ILE:H	31:BK:142:VAL:CG2	1.65	1.08
10:CM:6:ILE:HG22	10:CM:98:ILE:HG13	1.30	1.08
19:CV:41:VAL:HB	19:CV:42:PRO:HA	1.26	1.08
24:DA:1043:C:H2'	24:DA:1044:G:H5"	1.30	1.08
26:DD:131:LEU:HB2	26:DD:136:ILE:HD11	1.35	1.08
34:DO:126:VAL:HG12	34:DO:147:LEU:HD21	1.30	1.08
1:AA:696:A:H2'	1:AA:697:U:H5"	1.31	1.08
28:BF:18:ARG:HG2	28:BF:19:GLU:H	1.16	1.08
1:CA:1443:G:H3'	1:CA:1446:A:H5"	1.34	1.08
26:BD:255:LYS:H	26:BD:255:LYS:HE3	1.19	1.07
35:BP:77:LYS:NZ	35:BP:82:ARG:CA	2.16	1.07
24:DA:1057:A:H62	24:DA:1086:A:H2'	1.09	1.07
3:AF:82:GLU:HG3	3:AF:83:ARG:H	1.15	1.07
1:CA:1101:A:H4'	1:CA:1102:A:O5'	1.49	1.07
24:DA:518:G:H4'	41:DS:18:ARG:HH12	1.16	1.07
1:CA:1129:C:H4'	1:CA:1130:A:H5'	1.32	1.07
2:AE:185:ILE:HG22	2:AE:199:TYR:HB2	1.15	1.07
44:BV:94:GLU:HB2	44:BV:95:PRO:HD3	1.24	1.07
1:CA:1124:G:H3'	1:CA:1145:C:N4	1.68	1.07
24:BA:1056:G:H4'	24:BA:1086:A:H1'	1.30	1.07
41:BS:29:LEU:HD21	41:BS:33:ARG:HH21	1.18	1.07
1:AA:792:A:H2'	1:AA:794:A:H62	1.17	1.06
13:AP:9:ILE:HB	13:AP:10:PRO:HD3	1.08	1.06
27:BE:60:ASN:C	27:BE:62:PRO:HD2	1.80	1.06
44:BV:94:GLU:CB	44:BV:95:PRO:HD3	1.85	1.06
1:AA:1363:A:H4'	1:AA:1364:U:H5"	1.32	1.06
28:BF:66:PRO:O	28:BF:67:GLN:HB3	1.54	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:97:ARG:HB2	30:BH:104:GLU:HB2	1.31	1.06
34:DO:59:LEU:HA	34:DO:61:ARG:NH2	1.69	1.06
46:DZ:82:LEU:CD1	46:DZ:83:GLU:N	2.18	1.06
24:BA:2790:A:H2'	24:BA:2791:C:H5"	1.37	1.06
42:BT:57:LEU:HD21	42:BT:78:LYS:HB2	1.32	1.06
49:B4:61:ARG:HB3	49:B4:62:ARG:HH21	1.21	1.06
24:DA:704:G:H2'	24:DA:726:G:H22	1.19	1.06
30:DH:153:LYS:HB3	30:DH:154:PRO:HD2	1.06	1.06
22:AC:75:C:H3'	22:AC:76:A:H5"	1.34	1.06
28:BF:132:VAL:HG22	28:BF:133:ASN:H	1.20	1.06
49:B4:10:VAL:CB	49:B4:11:PRO:CD	2.34	1.06
24:DA:608:A:C4	24:DA:621:A:N6	2.23	1.06
27:DE:63:LEU:HD12	27:DE:64:LYS:H	1.18	1.06
49:D4:71:ARG:HH11	49:D4:71:ARG:HG3	1.13	1.06
53:D8:52:LYS:H	53:D8:53:PRO:CD	1.69	1.06
1:AA:792:A:H2'	1:AA:794:A:N6	1.69	1.06
24:BA:1309:G:H3'	52:B7:9:ARG:NH1	1.71	1.06
35:BP:77:LYS:HZ3	35:BP:82:ARG:CB	1.63	1.06
50:B5:36:CYS:SG	50:B5:49:CYS:HB3	1.96	1.06
1:CA:1399:C:H4'	1:CA:1400:C:O5'	1.53	1.06
35:BP:77:LYS:NZ	35:BP:82:ARG:HA	1.71	1.05
24:DA:1179:C:H2'	24:DA:1180:C:H5"	1.31	1.05
24:DA:1728:G:H3'	24:DA:1729:A:H5"	1.33	1.05
27:BE:47:VAL:HG12	27:BE:48:GLN:H	1.14	1.05
49:B4:10:VAL:CG1	49:B4:11:PRO:CD	2.33	1.05
24:DA:277:C:H3'	24:DA:278:A:H5"	1.07	1.05
24:DA:603:A:H4'	24:DA:604:G:O5'	1.50	1.05
24:DA:2015:A:H1'	50:D5:2:ALA:HA	1.34	1.05
34:DO:19:VAL:HG22	34:DO:20:GLY:H	1.15	1.05
24:BA:654(R):C:N3	24:BA:654(R):C:H5"	1.66	1.05
24:BA:2753:A:H2'	24:BA:2754:U:H5"	1.36	1.05
26:BD:35:LYS:HG2	26:BD:64:ILE:N	1.72	1.05
13:CP:3:ARG:HA	13:CP:9:ILE:HG21	1.35	1.05
24:DA:1378:A:O2'	24:DA:1379:A:H5'	1.56	1.05
27:DE:21:VAL:HB	27:DE:22:PRO:HB3	1.37	1.05
15:AR:87:ILE:HG22	15:AR:88:ARG:H	1.21	1.05
22:AC:20:U:H3'	22:AC:21:A:H5'	1.39	1.05
28:BF:3:GLU:HA	28:BF:24:LEU:HG	1.36	1.05
13:CP:88:ARG:HB3	13:CP:88:ARG:HH11	1.19	1.05
24:BA:1784:A:H4'	24:BA:1785:A:O5'	1.49	1.05
31:BK:142:VAL:HG22	31:BK:143:SER:H	1.15	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1325:C:H4'	21:AX:17:THR:HG21	1.36	1.04
26:BD:27:THR:HG21	26:BD:83:GLU:HG2	1.38	1.04
31:BK:82:ARG:NH1	31:BK:146:ALA:HB2	1.71	1.04
35:BP:77:LYS:HZ3	35:BP:82:ARG:CA	1.67	1.04
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.58	1.04
24:BA:776:G:H4'	24:BA:777:A:O5'	1.52	1.04
24:BA:2348:U:H2'	24:BA:2349:G:H5"	1.39	1.04
40:B2:85:LYS:HG3	40:B2:87:HIS:N	1.71	1.04
1:CA:792:A:H2'	1:CA:794:A:H62	0.90	1.04
40:D2:49:THR:HB	40:D2:50:PRO:HD2	1.39	1.04
44:DV:138:GLU:O	44:DV:156:LYS:HD3	1.56	1.04
13:AP:40:ASN:HD22	13:AP:43:THR:HG23	1.16	1.04
1:CA:1286:A:H5"	21:CX:26:LYS:HD2	1.36	1.04
11:CN:51:LYS:HA	11:CN:55:LYS:HD3	1.36	1.04
1:AA:792:A:C2'	1:AA:794:A:H62	1.70	1.04
24:BA:2250:G:C6	35:BP:82:ARG:HD3	1.93	1.04
1:CA:96:G:H2'	1:CA:97:U:H5'	1.33	1.04
12:AO:47:LYS:HB3	12:AO:48:PRO:CD	1.87	1.04
24:BA:1879:C:H2'	24:BA:1880:C:H5"	1.34	1.04
44:BV:94:GLU:CB	44:BV:95:PRO:CD	2.36	1.04
51:B6:40:CYS:H	51:B6:41:PRO:HD2	1.20	1.04
1:CA:1002:G:H2'	1:CA:1003:G:H8	1.19	1.04
11:CN:17:GLY:HA3	11:CN:77:MET:HE1	1.33	1.04
11:CN:79:SER:HB2	11:CN:106:LYS:HD2	1.35	1.04
19:CV:68:GLY:HA3	49:D4:68:ARG:HB2	1.38	1.04
4:AG:12:CYS:HB3	4:AG:32:ALA:HB2	1.40	1.03
24:BA:1925:C:C6	24:BA:1925:C:H3'	1.93	1.03
50:B5:4:HIS:HB3	50:B5:5:PRO:CD	1.88	1.03
51:B6:12:GLU:HA	51:B6:24:GLU:HB3	1.39	1.03
8:CK:29:SER:HB3	8:CK:32:LYS:HG3	1.39	1.03
30:DH:127:GLU:CG	30:DH:128:PRO:CD	2.31	1.03
24:BA:1249:U:H2'	24:BA:1249:U:O2	1.57	1.03
24:BA:2068:U:N3	24:BA:2430:A:H2	1.55	1.03
30:DH:127:GLU:CB	30:DH:128:PRO:CD	2.35	1.03
37:DQ:106:ARG:HA	37:DQ:110:LEU:HD11	1.39	1.03
39:D1:90:VAL:HG12	39:D1:91:ASP:H	1.18	1.03
2:AE:178:ARG:HH12	8:AK:68:ARG:HH22	1.04	1.03
22:AD:56:C:H2'	22:AD:57:A:H5"	1.38	1.03
28:BF:89:VAL:HG12	28:BF:90:PHE:H	1.23	1.03
24:DA:2790:A:H2'	24:DA:2791:C:H5"	1.37	1.03
26:DD:35:LYS:HG2	26:DD:64:ILE:N	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:4:ILE:HG12	31:DK:18:VAL:HG22	1.38	1.03
31:DK:78:THR:HG22	31:DK:141:LYS:HD2	1.41	1.03
37:DQ:83:LYS:O	37:DQ:109:GLY:HA3	1.57	1.03
24:BA:1434:A:H61	24:BA:1558:A:N6	1.57	1.03
44:BV:103:ARG:HG3	44:BV:105:VAL:H	1.22	1.03
24:DA:2893:G:H5"	24:DA:2894:G:H5'	1.35	1.03
33:DN:53:LYS:H	33:DN:53:LYS:HD2	1.23	1.03
5:AH:76:ILE:HG22	5:AH:77:PRO:HD2	1.36	1.02
22:AD:70:G:C2'	22:AD:71:C:H5"	1.89	1.02
43:BU:75:ILE:HG12	43:BU:80:GLY:H	1.24	1.02
1:CA:1003:G:H2'	1:CA:1004:A:H5'	1.39	1.02
2:CE:18:GLY:H	2:CE:42:ILE:HG22	1.21	1.02
24:DA:2760:C:H2'	24:DA:2761:G:H5"	1.41	1.02
1:CA:65:U:H5'	1:CA:66:G:OP1	1.59	1.02
1:CA:1322:C:O2'	1:CA:1323:G:H5'	1.59	1.02
2:CE:4:GLU:HG2	2:CE:5:ILE:H	1.19	1.02
5:CH:11:ILE:HD11	5:CH:31:LEU:HD12	1.38	1.02
28:DF:67:GLN:O	28:DF:68:LYS:HB2	1.56	1.02
35:DP:81:VAL:O	35:DP:82:ARG:CD	2.06	1.02
24:BA:242:G:H5"	53:B8:62:LEU:HD13	1.40	1.02
43:BU:95:LYS:HZ3	43:BU:95:LYS:HB2	1.18	1.02
44:BV:10:ARG:HG2	44:BV:36:LYS:HB3	1.40	1.02
35:DP:65:PHE:O	35:DP:66:ILE:HG12	1.59	1.02
19:AV:40:ILE:O	19:AV:41:VAL:HG22	1.57	1.02
44:BV:94:GLU:HB2	44:BV:95:PRO:CD	1.90	1.02
24:DA:1077:A:H3'	24:DA:1078:U:C5'	1.89	1.02
35:DP:12:GLN:HG2	35:DP:73:PRO:HD2	1.42	1.02
24:BA:925:C:H2'	24:BA:926:A:H5"	1.39	1.02
33:BN:2:ILE:HD11	33:BN:82:ASN:HD22	1.24	1.02
1:CA:73:G:N2	1:CA:74:C:N4	2.08	1.02
24:DA:1899:G:N2	24:DA:1902:C:H41	1.58	1.02
28:DF:46:ARG:HH11	28:DF:46:ARG:HG2	1.20	1.02
43:DU:97:ARG:HH21	43:DU:98:VAL:HB	1.25	1.02
1:AA:696:A:C2'	1:AA:697:U:H5"	1.89	1.01
24:BA:84:A:H5"	43:BU:8:LYS:HD2	1.41	1.01
45:B3:49:LYS:HE2	45:B3:49:LYS:H	1.18	1.01
1:CA:91:C:H2'	1:CA:92:G:H5"	1.41	1.01
1:CA:1053:G:H5'	1:CA:1054:C:H5'	1.41	1.01
2:AE:32:ILE:HD11	2:AE:40:HIS:HB3	1.43	1.01
2:AE:162:ILE:HD11	2:AE:184:VAL:HG22	1.41	1.01
24:BA:2882:A:H5'	36:B0:96:ARG:HG3	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:B1:50:ARG:NH1	40:B2:72:VAL:HG11	1.75	1.01
40:B2:85:LYS:HG3	40:B2:87:HIS:H	1.21	1.01
13:CP:49:THR:HG22	13:CP:51:ALA:H	1.22	1.01
29:DG:13:GLU:O	29:DG:14:GLU:HB2	1.60	1.01
9:AL:28:VAL:HG21	9:AL:63:ILE:N	1.76	1.01
27:BE:95:ILE:HD12	27:BE:95:ILE:H	1.25	1.01
31:BK:79:ILE:HB	31:BK:142:VAL:HG11	1.37	1.01
34:BO:47:ASP:HB3	34:BO:48:PRO:HA	1.42	1.01
4:CG:30:LYS:C	4:CG:32:ALA:H	1.62	1.01
24:DA:483:A:H5'	43:DU:49:VAL:HG22	1.38	1.01
24:DA:1458:C:H5"	24:DA:1459:G:H5'	1.39	1.01
26:BD:242:ARG:HD2	26:BD:242:ARG:H	1.23	1.01
19:CV:41:VAL:HB	19:CV:42:PRO:CA	1.91	1.01
24:DA:1142(A):A:O2'	24:DA:1143:A:H3'	1.58	1.01
36:D0:67:LEU:HD13	36:D0:76:VAL:HG21	1.39	1.01
3:AF:21:ARG:HB3	3:AF:21:ARG:NH1	1.73	1.00
24:BA:2287:A:H62	24:BA:2344:U:H3	1.08	1.00
24:BA:330:A:H2	24:BA:1210:A:H2'	1.26	1.00
24:BA:479:A:O2'	24:BA:481:G:H5"	1.60	1.00
35:DP:79:LEU:HD13	35:DP:80:GLU:OE1	1.61	1.00
24:BA:1484:G:C2'	24:BA:1485:G:H5"	1.90	1.00
24:BA:1899:G:N2	24:BA:1902:C:N4	2.05	1.00
27:BE:60:ASN:HD22	27:BE:63:LEU:HB2	1.26	1.00
40:B2:2:PHE:HB3	40:B2:42:GLY:HA2	1.41	1.00
24:DA:776:G:H4'	24:DA:777:A:O5'	1.59	1.00
24:DA:1138:G:H21	32:DM:106:MET:HE3	1.22	1.00
24:DA:2760:C:C2'	24:DA:2761:G:H5"	1.91	1.00
28:DF:185:ASP:HA	28:DF:188:ARG:HD3	1.41	1.00
32:DM:96:GLU:HG2	32:DM:97:ARG:H	1.26	1.00
44:BV:103:ARG:HG3	44:BV:104:PHE:H	1.21	1.00
10:AM:48:THR:HA	10:AM:62:HIS:HB3	1.44	1.00
24:BA:2533:A:H2'	24:BA:2534:A:H5"	1.43	1.00
28:BF:125:LEU:H	28:BF:125:LEU:HD23	1.25	1.00
24:DA:1059:G:H3'	24:DA:1060:U:H5"	1.41	1.00
28:DF:67:GLN:O	28:DF:67:GLN:HG3	1.58	1.00
24:BA:265:A:O2'	24:BA:266:G:H4'	1.60	1.00
35:DP:80:GLU:O	35:DP:81:VAL:HG13	1.59	1.00
36:D0:54:LEU:HD23	36:D0:66:VAL:HG23	1.44	1.00
40:D2:1:MET:HE2	40:D2:43:GLU:HG2	1.42	1.00
51:D6:7:ILE:HG13	51:D6:8:LYS:H	1.25	1.00
24:BA:2893:G:H5'	24:BA:2894:G:H5'	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:153:LYS:HB3	30:DH:154:PRO:CD	1.92	1.00
37:DQ:26:LEU:HD12	37:DQ:39:ILE:HD11	1.40	1.00
24:DA:1403:C:H5"	24:DA:1471:A:H1'	1.41	0.99
27:DE:201:THR:HG22	27:DE:203:LYS:H	1.26	0.99
30:BH:52:VAL:HG11	30:BH:69:ARG:HB2	1.41	0.99
41:BS:59:VAL:HG23	41:BS:65:LEU:H	1.25	0.99
24:DA:1359:A:H3'	24:DA:1359:A:C8	1.97	0.99
44:DV:152:ALA:CB	44:DV:169:GLU:HB3	1.92	0.99
24:BA:1301:A:H2'	24:BA:1302:A:H3'	1.44	0.99
38:BR:74:ARG:HH11	38:BR:74:ARG:HB3	1.26	0.99
44:BV:118:GLN:HG3	44:BV:173:ALA:H	1.23	0.99
24:DA:1654:A:OP2	36:D0:2:ARG:HD2	1.62	0.99
2:AE:21:ARG:NH2	2:AE:38:GLY:HA3	1.77	0.99
34:DO:105:LEU:O	34:DO:106:LEU:HB2	1.60	0.99
24:BA:1826:G:H4'	26:BD:242:ARG:NH2	1.76	0.99
29:BG:67:LYS:HE2	49:B4:2:LYS:HG2	1.42	0.99
24:DA:1065:U:C3'	24:DA:1066:U:H5"	1.92	0.99
24:DA:1543:A:O2'	24:DA:1544:C:H3'	1.61	0.99
24:DA:2389:G:H5"	24:DA:2390:U:H5'	1.39	0.99
1:CA:1363:A:H1'	1:CA:1365:G:N7	1.76	0.99
47:DW:50:ILE:HD12	47:DW:51:ARG:N	1.76	0.99
24:DA:1169:G:H2'	24:DA:1170:G:H5"	1.45	0.99
4:AG:29:PRO:HG2	4:AG:30:LYS:H	1.25	0.99
24:BA:2503:A:H4'	24:BA:2504:U:OP1	1.56	0.99
24:DA:1535:U:H3'	24:DA:1536:A:H5"	1.42	0.99
34:DO:50:ARG:HH21	34:DO:50:ARG:CB	1.76	0.99
1:AA:168:G:H2'	1:AA:169:C:H5"	1.44	0.98
24:BA:2287:A:N6	24:BA:2344:U:H3	1.60	0.98
26:BD:255:LYS:H	26:BD:255:LYS:CE	1.75	0.98
42:BT:8:ILE:HD11	42:BT:42:ALA:HB1	1.43	0.98
49:B4:10:VAL:HB	49:B4:11:PRO:HD2	1.45	0.98
5:AH:88:LYS:HB3	5:AH:123:LEU:HB2	1.43	0.98
5:AH:101:ILE:HD13	5:AH:101:ILE:H	1.28	0.98
49:B4:11:PRO:O	49:B4:25:TYR:CD1	2.16	0.98
35:BP:81:VAL:HG12	35:BP:82:ARG:HH11	1.29	0.98
8:CK:84:ARG:HH12	8:CK:86:ILE:HD13	1.28	0.98
10:CM:6:ILE:HD11	10:CM:72:VAL:HB	1.44	0.98
35:DP:81:VAL:O	35:DP:82:ARG:NE	1.94	0.98
18:AU:62:GLU:HA	18:AU:65:ILE:HD11	1.42	0.98
44:BV:103:ARG:HB3	44:BV:139:VAL:N	1.79	0.98
24:DA:1065:U:H3'	24:DA:1066:U:C5'	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:20:ALA:HA	35:BP:99:PRO:HG2	1.46	0.98
24:DA:1175:U:H4'	24:DA:1176:G:OP1	1.61	0.98
24:DA:2068:U:H3	24:DA:2430:A:H2	1.03	0.98
38:DR:11:GLU:CD	38:DR:11:GLU:H	1.71	0.98
38:DR:62:THR:HG22	38:DR:75:ILE:HG12	1.46	0.98
22:AC:58:A:H4'	22:AC:59:A:OP1	1.59	0.98
23:C1:9:G:H4'	23:C1:10:G:OP1	1.64	0.98
10:AM:4:ILE:HB	10:AM:74:ILE:HD11	1.45	0.98
24:DA:674:G:H1'	28:DF:74:ARG:HD3	1.44	0.98
24:DA:1024:G:H3'	24:DA:1025:G:H5"	1.46	0.98
24:DA:2636:U:OP1	27:DE:79:ARG:HA	1.62	0.98
30:DH:86:GLU:HG3	30:DH:165:ALA:N	1.79	0.98
24:BA:2529:G:H5'	24:BA:2530:A:H5"	1.46	0.97
40:B2:71:LEU:N	40:B2:86:GLY:HA3	1.79	0.97
41:BS:54:ALA:HB1	41:BS:107:LEU:HD21	1.42	0.97
48:BX:59:VAL:HG12	48:BX:60:GLU:H	1.25	0.97
24:DA:1484:G:C2'	24:DA:1485:G:H5"	1.93	0.97
47:DW:50:ILE:HD12	47:DW:51:ARG:H	1.24	0.97
3:AF:44:GLU:HA	3:AF:52:LEU:HD11	1.41	0.97
6:AI:1:MET:HE2	6:AI:68:PRO:HD3	1.46	0.97
11:AN:13:GLN:CB	11:AN:75:TYR:O	2.12	0.97
35:DP:79:LEU:HD13	35:DP:79:LEU:O	1.63	0.97
1:AA:353:A:H5'	1:AA:353:A:H8	1.27	0.97
1:AA:1321:C:H41	1:AA:1322:C:H41	1.00	0.97
7:CJ:78:ARG:HG3	7:CJ:79:ARG:H	1.24	0.97
51:D6:41:PRO:HG2	51:D6:45:LYS:H	1.29	0.97
21:AX:15:ARG:HB2	21:AX:15:ARG:HH11	1.25	0.97
24:BA:2875:C:H4'	38:BR:5:ALA:HB2	1.46	0.97
38:BR:26:ASP:HB3	38:BR:91:ARG:HA	1.44	0.97
24:DA:27:G:H22	24:DA:512:G:H2'	1.27	0.97
1:CA:1126:U:H1'	1:CA:1280:A:N7	1.79	0.97
26:DD:44:ASN:HB3	26:DD:49:ILE:HA	1.45	0.97
41:BS:14:PRO:HG2	41:BS:78:GLU:HG3	1.45	0.97
24:DA:1178:C:H2'	24:DA:1179:C:C6	2.00	0.97
35:DP:79:LEU:O	35:DP:79:LEU:HD22	1.64	0.97
44:BV:157:LEU:HB3	44:BV:161:VAL:HG21	1.40	0.97
49:B4:10:VAL:HB	49:B4:11:PRO:CD	1.90	0.97
7:CJ:62:PHE:HA	7:CJ:124:LEU:HD21	1.47	0.97
24:DA:676:A:H8	24:DA:2069:G:H21	1.01	0.97
24:DA:1475:G:H8	24:DA:1475:G:H5'	1.26	0.97
24:BA:2791:C:H1'	24:BA:2792:G:N7	1.80	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1123:A:H4'	10:CM:36:GLY:HA3	1.45	0.97
24:DA:1179:C:C2'	24:DA:1180:C:H5"	1.94	0.97
24:BA:2285:C:H41	51:B6:25:LYS:HE2	1.29	0.97
24:DA:2729:G:H1'	27:DE:187:ALA:HB2	1.45	0.97
37:DQ:83:LYS:NZ	37:DQ:109:GLY:HA2	1.78	0.97
31:BK:78:THR:HB	31:BK:104:GLN:HE22	1.29	0.96
35:BP:77:LYS:HZ2	35:BP:82:ARG:CB	1.78	0.96
3:CF:16:ARG:HB2	3:CF:16:ARG:HH11	1.30	0.96
31:DK:38:LEU:HD12	31:DK:38:LEU:H	1.30	0.96
50:D5:58:LEU:HD13	50:D5:60:VAL:HG12	1.47	0.96
9:AL:82:ALA:HB1	9:AL:96:LEU:HD11	1.46	0.96
10:AM:51:ARG:H	10:AM:60:ARG:HB2	1.27	0.96
24:DA:1301:A:H2'	24:DA:1302:A:H3'	1.47	0.96
24:DA:2401:U:H2'	24:DA:2402:C:H5"	1.43	0.96
41:DS:86:LEU:HD12	41:DS:87:PRO:HD2	1.45	0.96
38:BR:8:LYS:HB2	38:BR:8:LYS:NZ	1.78	0.96
3:CF:19:GLU:HA	3:CF:54:ARG:HH12	1.29	0.96
3:CF:181:ASN:HD21	3:CF:204:LEU:HD12	1.27	0.96
31:DK:57:ARG:NH1	31:DK:57:ARG:HB2	1.80	0.96
24:BA:654(B):C:H2'	24:BA:654(C):G:H8	1.28	0.96
40:B2:80:GLN:N	40:B2:80:GLN:HE21	1.63	0.96
24:DA:1533:C:H2'	24:DA:1534:G:N7	1.80	0.96
4:AG:12:CYS:HB3	4:AG:32:ALA:CB	1.94	0.96
24:BA:1613:G:H1	24:BA:1617:C:H2'	1.29	0.96
24:BA:1925:C:N4	24:BA:1926:U:N1	2.13	0.96
2:CE:7:VAL:HG21	2:CE:217:ARG:HH11	1.31	0.96
24:DA:1076:C:H2'	24:DA:1077:A:H5"	1.47	0.96
10:CM:32:ALA:HB3	10:CM:76:ASN:HB2	1.47	0.96
22:CB:9:G:H5'	22:CB:10:G:OP2	1.66	0.96
12:AO:126:LYS:HD3	12:AO:126:LYS:H	1.29	0.96
8:CK:23:SER:HA	8:CK:63:LEU:HD22	1.45	0.96
24:DA:899:A:HO2'	24:DA:900:A:H8	0.98	0.96
24:DA:1046:A:H3'	24:DA:1046:A:N3	1.80	0.96
4:AG:26:CYS:HA	4:AG:31:CYS:HB2	1.47	0.96
49:D4:56:VAL:HA	49:D4:60:GLN:HB2	1.43	0.96
30:BH:126:PRO:HB2	30:BH:127:GLU:HA	1.44	0.96
52:B7:12:ARG:HD3	52:B7:46:VAL:HG21	1.43	0.96
44:DV:120:ILE:HB	44:DV:171:ILE:HA	1.45	0.96
24:BA:654(R):C:C2	24:BA:654(R):C:H5"	1.99	0.96
24:BA:2517:C:O2'	24:BA:2518:A:H3'	1.64	0.96
30:BH:123:PHE:HA	30:BH:133:VAL:HG22	1.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:63:LYS:HD2	44:BV:175:VAL:HG21	1.48	0.96
1:CA:547:A:H4'	1:CA:548:G:O5'	1.63	0.96
3:CF:95:THR:HG22	3:CF:96:GLY:H	1.27	0.96
28:DF:101:LEU:HD12	28:DF:102:PRO:CD	1.96	0.96
29:DG:112:PRO:HB3	49:D4:37:SER:HB2	1.47	0.96
50:D5:56:LYS:HD2	50:D5:56:LYS:H	1.30	0.96
13:AP:81:LEU:H	13:AP:81:LEU:HD12	1.31	0.95
1:CA:1007:C:C2'	1:CA:1008:C:H5"	1.96	0.95
24:DA:1899:G:H21	24:DA:1902:C:N4	1.64	0.95
30:BH:11:VAL:HG23	30:BH:13:LYS:HG2	1.46	0.95
32:BM:111:PRO:HA	32:BM:114:ARG:NH1	1.80	0.95
43:DU:84:ARG:HH12	43:DU:97:ARG:HB2	1.28	0.95
39:B1:90:VAL:HG22	40:B2:39:LEU:HB3	1.45	0.95
49:B4:16:CYS:HB3	49:B4:19:GLY:H	1.25	0.95
3:CF:16:ARG:HD2	3:CF:54:ARG:HH21	1.28	0.95
24:DA:784:A:N7	26:DD:229:VAL:HG21	1.81	0.95
24:DA:1301:A:C2'	24:DA:1302:A:H3'	1.95	0.95
27:DE:20:ALA:O	27:DE:21:VAL:HG22	1.64	0.95
1:CA:96:G:H2'	1:CA:97:U:C5'	1.96	0.95
24:DA:277:C:C3'	24:DA:278:A:H5"	1.96	0.95
24:DA:2507:C:H5'	24:DA:2507:C:H6	1.27	0.95
1:AA:1321:C:N4	1:AA:1322:C:H41	1.63	0.95
25:DB:20:C:H2'	25:DB:21:G:H5"	1.47	0.95
24:BA:2758:A:C2'	24:BA:2759:G:H5"	1.96	0.95
30:BH:52:VAL:HG21	30:BH:69:ARG:HD3	1.48	0.95
24:DA:2131:G:H4'	24:DA:2132:U:H4'	1.45	0.95
2:AE:91:PRO:HG3	2:AE:154:LEU:HD21	1.46	0.95
4:CG:94:LEU:H	4:CG:94:LEU:HD12	1.28	0.95
13:CP:57:ARG:HB2	13:CP:57:ARG:HH11	1.32	0.95
24:DA:2712:U:HO2'	24:DA:2712(A):A:H8	0.97	0.95
24:BA:1403:C:H5"	24:BA:1471:A:H1'	1.46	0.95
24:BA:2296:U:H4'	24:BA:2297:C:OP1	1.67	0.95
27:BE:36:ARG:NH2	27:BE:88:GLY:HA3	1.81	0.95
44:BV:91:LEU:H	44:BV:91:LEU:HD23	1.25	0.95
16:CS:4:ILE:HD11	16:CS:64:ALA:HB1	1.46	0.95
46:DZ:81:LYS:N	46:DZ:81:LYS:CE	2.30	0.95
40:B2:61:VAL:HG13	40:B2:62:LEU:H	1.26	0.95
53:B8:33:ASN:H	53:B8:36:LYS:HE3	1.30	0.95
25:DB:7:G:H3'	25:DB:8:U:H5"	1.49	0.95
26:DD:227:ASN:HB3	26:DD:228:PRO:HD2	1.44	0.95
28:DF:103:LYS:HA	28:DF:106:ARG:HG3	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:89:PHE:HD1	43:BU:90:LEU:HD23	1.31	0.95
27:DE:78:LEU:HG	27:DE:79:ARG:HE	1.31	0.95
30:DH:153:LYS:CB	30:DH:154:PRO:HD2	1.97	0.95
24:BA:27:G:H22	24:BA:512:G:H2'	1.31	0.94
49:B4:6:HIS:HB2	49:B4:7:PRO:CA	1.96	0.94
34:DO:62:LEU:N	34:DO:62:LEU:HD22	1.82	0.94
40:D2:99:ILE:HD13	40:D2:99:ILE:H	1.32	0.94
15:AR:39:LEU:HD12	15:AR:56:LEU:HD13	1.48	0.94
34:BO:59:LEU:HD22	34:BO:60:MET:N	1.81	0.94
49:B4:8:LYS:HE2	49:B4:8:LYS:HA	1.47	0.94
1:CA:77:C:H2'	1:CA:78:G:H5"	1.49	0.94
25:DB:81:G:C2	25:DB:82:G:N7	2.34	0.94
43:BU:28:LYS:HZ3	43:BU:29:GLU:H	1.07	0.94
47:BW:65:ASN:ND2	47:BW:69:ARG:HH21	1.64	0.94
49:B4:12:ALA:HA	49:B4:24:THR:HB	1.47	0.94
1:CA:579:G:H5'	1:CA:728:A:H1'	1.49	0.94
1:CA:939:G:H5"	7:CJ:102:ARG:HH22	1.28	0.94
6:CI:86:ARG:O	6:CI:87:ARG:HG2	1.66	0.94
24:DA:2469:A:H2	24:DA:2481:G:H21	1.13	0.94
46:DZ:81:LYS:CA	46:DZ:81:LYS:CE	2.45	0.94
47:DW:13:ALA:HA	47:DW:16:LEU:HD23	1.48	0.94
24:BA:1281:G:H8	24:BA:1281:G:H5'	1.32	0.94
24:BA:2392:A:H2	24:BA:2424:C:H42	1.11	0.94
40:B2:58:VAL:HB	40:B2:98:GLU:HB2	1.45	0.94
1:CA:820:U:H4'	1:CA:821:G:OP2	1.65	0.94
10:CM:75:ILE:HG13	10:CM:76:ASN:H	1.31	0.94
40:D2:35:LEU:HD21	40:D2:57:VAL:HG22	1.47	0.94
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.01	0.94
1:CA:1504:G:H3'	1:CA:1504:G:OP2	1.67	0.94
24:DA:2304:G:H21	29:DG:156:ASP:CG	1.75	0.94
1:AA:1363:A:H1'	1:AA:1365:G:N7	1.81	0.94
34:BO:115:LEU:HD22	34:BO:116:GLY:H	1.32	0.94
2:CE:196:LEU:HD12	2:CE:197:VAL:HG23	1.45	0.94
47:DW:65:ASN:HD22	47:DW:69:ARG:HH22	1.07	0.94
19:AV:67:VAL:HG13	19:AV:68:GLY:H	1.31	0.94
24:BA:270(B):A:H5'	24:BA:270(C):C:OP2	1.68	0.94
24:BA:1190:G:H5'	34:BO:32:THR:HA	1.49	0.94
24:BA:1826:G:C4'	26:BD:242:ARG:HH21	1.80	0.94
34:BO:31:ALA:O	34:BO:32:THR:HG22	1.67	0.94
49:B4:40:HIS:H	49:B4:41:PRO:CD	1.81	0.94
1:CA:523:A:H61	12:CO:92:ASP:HB2	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:593:G:O2'	53:D8:61:LEU:HD13	1.66	0.94
24:DA:1069:A:H4'	24:DA:1070:A:H5"	1.50	0.94
24:DA:1543:A:H1'	24:DA:1545:A:H5"	1.47	0.94
30:DH:77:LYS:NZ	30:DH:77:LYS:HB3	1.82	0.94
44:DV:120:ILE:CD1	44:DV:169:GLU:HG3	1.98	0.94
1:AA:827:U:H3	1:AA:872:A:H61	1.07	0.94
43:DU:51:VAL:HG13	43:DU:52:SER:H	1.31	0.94
3:AF:75:VAL:HB	3:AF:83:ARG:HD3	1.50	0.94
24:BA:1033:U:H4'	24:BA:1034:G:OP1	1.66	0.94
24:BA:1344:G:H4'	24:BA:1384:A:N7	1.81	0.94
37:BQ:19:LYS:O	37:BQ:20:ARG:HB3	1.68	0.94
3:CF:11:ARG:HB3	3:CF:15:THR:HB	1.48	0.94
26:DD:28:GLU:HB2	26:DD:29:PRO:CD	1.98	0.94
51:D6:47:THR:HG22	51:D6:48:VAL:HG12	1.45	0.94
24:BA:1359:A:N6	24:BA:1373:A:N3	2.16	0.93
43:BU:52:SER:HA	43:BU:57:GLN:H	1.30	0.93
24:DA:1379:A:O2'	24:DA:1380:G:OP1	1.86	0.93
30:DH:77:LYS:HB3	30:DH:77:LYS:HZ3	1.31	0.93
8:AK:12:ARG:HH12	8:AK:27:PRO:HD3	1.33	0.93
10:AM:40:LEU:HG	10:AM:41:PRO:HD2	1.50	0.93
36:B0:37:THR:CG2	36:B0:39:PRO:HD2	1.98	0.93
43:BU:43:ASN:HB3	43:BU:64:GLU:HA	1.49	0.93
2:CE:8:LYS:HD3	2:CE:8:LYS:H	1.30	0.93
3:CF:70:VAL:HG12	3:CF:72:LYS:H	1.34	0.93
32:DM:134:ARG:H	32:DM:135:PRO:CD	1.81	0.93
4:AG:12:CYS:HA	4:AG:21:LEU:CD2	1.97	0.93
27:BE:3:GLY:HA3	27:BE:81:ILE:HD12	1.51	0.93
1:CA:160:A:H1'	1:CA:344:A:N7	1.83	0.93
43:BU:27:VAL:HG12	43:BU:39:VAL:HG12	1.50	0.93
24:DA:1928:A:C2'	24:DA:1929:G:H5'	1.97	0.93
24:BA:654(R):C:C4	24:BA:654(R):C:H5'	1.91	0.93
26:BD:44:ASN:HB3	26:BD:49:ILE:HA	1.48	0.93
22:AD:72:A:H2'	22:AD:73:A:H5"	1.49	0.93
24:DA:1784:A:H4'	24:DA:1785:A:O5'	1.67	0.93
30:DH:127:GLU:HB3	30:DH:128:PRO:CD	1.99	0.93
42:DT:57:LEU:CD1	42:DT:78:LYS:HB2	1.98	0.93
1:AA:168:G:C2'	1:AA:169:C:H5"	1.97	0.93
22:AD:68:C:H2'	22:AD:69:C:H5"	1.51	0.93
24:BA:1846:G:H5'	24:BA:1847:A:OP2	1.68	0.93
13:CP:77:ASN:HA	49:D4:71:ARG:NH2	1.84	0.93
15:AR:54:ARG:HG2	15:AR:58:MET:HE2	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CM:8:LEU:HD11	10:CM:23:ILE:HD12	1.50	0.93
24:DA:1098:A:H2'	24:DA:1099:G:H5"	1.50	0.93
24:BA:1948:G:H8	24:BA:1948:G:H5'	1.33	0.93
49:B4:16:CYS:C	49:B4:18:CYS:H	1.69	0.93
24:DA:1359:A:C8	24:DA:1359:A:C3'	2.52	0.93
27:DE:14:ILE:HG12	27:DE:15:PHE:H	1.33	0.93
24:BA:1301:A:C2'	24:BA:1302:A:H3'	2.00	0.92
28:BF:124:LEU:HD23	28:BF:191:ARG:HH22	1.34	0.92
34:BO:62:LEU:HD11	53:B8:25:MET:HB2	1.51	0.92
53:B8:49:VAL:O	53:B8:50:LEU:HG	1.69	0.92
6:CI:24:GLU:HA	6:CI:27:GLN:HG3	1.49	0.92
34:DO:65:ARG:HH11	34:DO:65:ARG:HG3	1.35	0.92
36:D0:33:ARG:NH2	50:D5:55:ARG:HG2	1.84	0.92
2:AE:29:ALA:C	2:AE:31:TYR:H	1.69	0.92
7:AJ:97:GLN:HE21	7:AJ:101:LEU:HD11	1.34	0.92
13:AP:8:GLU:O	13:AP:10:PRO:HD2	1.69	0.92
50:B5:46:CYS:HB3	50:B5:49:CYS:SG	2.08	0.92
26:DD:108:PRO:HB3	26:DD:143:HIS:CE1	2.05	0.92
24:BA:2529:G:H5'	24:BA:2530:A:C5'	1.99	0.92
17:CT:4:LYS:HE3	17:CT:6:LEU:HD21	1.51	0.92
19:CV:40:ILE:HG12	19:CV:41:VAL:HG22	1.51	0.92
4:AG:26:CYS:SG	4:AG:32:ALA:HB2	2.09	0.92
26:BD:206:LEU:HD22	26:BD:211:ARG:HG2	1.50	0.92
49:B4:10:VAL:HG12	49:B4:11:PRO:HD3	0.94	0.92
1:CA:121:C:H41	1:CA:235:C:H3'	1.34	0.92
37:DQ:59:LYS:HG2	37:DQ:60:GLY:H	1.31	0.92
1:AA:160:A:H1'	1:AA:344:A:N7	1.83	0.92
1:AA:954:G:H21	1:AA:1227:A:N6	1.65	0.92
1:AA:1305:G:H22	1:AA:1331:G:C2'	1.82	0.92
1:AA:1321:C:H41	1:AA:1322:C:N4	1.68	0.92
24:BA:90:U:H2'	24:BA:90:U:O2	1.68	0.92
34:DO:1:MET:HE2	34:DO:5:ASP:HB3	1.50	0.92
44:DV:18:LEU:H	44:DV:18:LEU:HD12	1.33	0.92
7:AJ:20:ASP:O	7:AJ:21:VAL:HG22	1.69	0.92
37:BQ:66:ALA:O	37:BQ:69:VAL:HG12	1.69	0.92
4:AG:196:LEU:HD12	4:AG:196:LEU:H	1.33	0.92
24:BA:1879:C:C2'	24:BA:1880:C:H5"	1.98	0.92
36:B0:37:THR:HG22	36:B0:39:PRO:CD	1.99	0.92
24:DA:2133:G:H21	24:DA:2158:A:N6	1.67	0.92
26:DD:108:PRO:HB3	26:DD:143:HIS:HE1	1.32	0.92
3:CF:20:SER:HB2	3:CF:40:ARG:HH22	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:53:LEU:HD12	5:CH:53:LEU:H	1.34	0.92
24:DA:2701:C:H3'	24:DA:2702:U:C5'	2.00	0.92
31:DK:115:ALA:HB3	31:DK:128:LEU:HD11	1.50	0.92
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.85	0.92
1:AA:1505:G:H5'	1:AA:1506:U:OP1	1.68	0.92
4:AG:23:GLY:O	4:AG:24:GLU:HB2	1.67	0.92
49:B4:12:ALA:CA	49:B4:24:THR:HB	2.00	0.92
1:CA:792:A:O2'	1:CA:793:U:P	2.27	0.92
15:CR:82:ILE:HD11	15:CR:88:ARG:HG3	1.51	0.92
24:DA:2795:G:H3'	24:DA:2797:U:C5'	1.99	0.92
1:AA:872:A:H4'	1:AA:873:A:OP1	1.67	0.92
24:DA:232:G:H4'	24:DA:233:A:OP1	1.69	0.92
24:DA:1434:A:H61	24:DA:1558:A:H62	1.10	0.92
2:AE:133:LYS:HD2	2:AE:137:ARG:NH1	1.84	0.91
3:AF:113:ALA:HB3	3:AF:114:PRO:HD3	1.52	0.91
17:AT:74:LEU:HD12	17:AT:75:ARG:HG3	1.52	0.91
24:BA:1729:A:HO2'	24:BA:1730:U:H6	0.94	0.91
8:CK:6:ILE:HB	8:CK:85:ARG:NH1	1.85	0.91
25:DB:7:G:C3'	25:DB:8:U:H5"	1.99	0.91
1:AA:1342:C:H1'	9:AL:124:GLN:NE2	1.85	0.91
44:BV:156:LYS:O	44:BV:157:LEU:HB2	1.67	0.91
1:CA:1320:C:N4	19:CV:36:ARG:HG3	1.84	0.91
7:CJ:15:ASP:HB3	7:CJ:20:ASP:H	1.31	0.91
1:AA:954:G:H21	1:AA:1227:A:H62	0.97	0.91
1:AA:92:G:H2'	1:AA:93:U:H5'	1.52	0.91
24:DA:51:G:H22	24:DA:120:U:H6	1.18	0.91
26:DD:10:THR:HG23	26:DD:13:ARG:HB3	1.51	0.91
37:DQ:67:ARG:HB2	37:DQ:67:ARG:NH1	1.85	0.91
43:DU:30:VAL:HG22	43:DU:37:VAL:HG12	1.53	0.91
1:AA:842:C:H4'	1:AA:843:U:OP1	1.70	0.91
24:BA:2873:A:H8	36:B0:6:SER:H	0.96	0.91
29:BG:111:LEU:HB2	29:BG:112:PRO:HD3	1.49	0.91
30:BH:45:VAL:HG22	30:BH:46:GLU:H	1.36	0.91
2:CE:33:TYR:HB2	2:CE:43:ASP:HB2	1.53	0.91
11:CN:99:GLN:HG2	11:CN:105:VAL:HG21	1.53	0.91
24:DA:1928:A:H2'	24:DA:1929:G:H5'	1.51	0.91
29:DG:37:VAL:HG22	29:DG:159:VAL:HA	1.52	0.91
35:DP:34:LEU:HD11	35:DP:129:THR:HB	1.50	0.91
1:AA:1139:G:N2	1:AA:1143:G:H1	1.67	0.91
1:CA:1025:U:HO2'	1:CA:1026:G:H8	1.16	0.91
5:CH:101:ILE:HD11	5:CH:119:LEU:HD23	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:D1:92:ARG:HG2	39:D1:92:ARG:O	1.69	0.91
46:DZ:81:LYS:HA	46:DZ:81:LYS:CE	2.01	0.91
2:AE:82:ARG:HA	2:AE:92:TYR:CE1	2.06	0.91
4:AG:129:ASN:HD21	4:AG:145:GLU:H	1.15	0.91
42:BT:50:LYS:H	42:BT:87:GLN:HE22	1.02	0.91
4:CG:170:VAL:HG22	4:CG:171:GLY:H	1.34	0.91
24:DA:1899:G:H21	24:DA:1902:C:H41	0.94	0.91
24:DA:2287:A:H62	24:DA:2344:U:H3	1.01	0.91
46:DZ:82:LEU:C	46:DZ:82:LEU:CD1	2.41	0.91
1:AA:562:C:O2'	12:AO:15:ARG:HB3	1.70	0.91
24:BA:2701:C:H3'	24:BA:2702:U:C5'	2.01	0.91
30:BH:17:VAL:HG12	30:BH:18:GLU:H	1.34	0.91
34:BO:36:LYS:HB2	34:BO:36:LYS:NZ	1.86	0.91
20:CW:49:ALA:HB1	20:CW:99:LEU:HB2	1.51	0.91
22:CD:56:C:H2'	22:CD:57:A:H8	1.35	0.91
24:DA:1022:G:H22	24:DA:1142(A):A:H2	1.11	0.91
24:DA:1434:A:H61	24:DA:1558:A:N6	1.68	0.91
46:DZ:80:LEU:O	46:DZ:81:LYS:HB2	1.71	0.91
6:AI:77:ARG:NH1	6:AI:77:ARG:HB3	1.84	0.91
39:B1:34:LYS:HA	39:B1:34:LYS:HE2	1.53	0.91
43:BU:84:ARG:HH21	43:BU:97:ARG:HB2	1.33	0.91
27:BE:36:ARG:HH21	27:BE:88:GLY:HA3	1.34	0.90
30:BH:7:LEU:HD11	30:BH:66:GLY:HA2	1.52	0.90
24:DA:1509:C:H3'	24:DA:1510:A:H5"	1.52	0.90
33:DN:2:ILE:HD11	33:DN:82:ASN:HD22	1.33	0.90
3:AF:91:LEU:H	3:AF:91:LEU:HD12	1.37	0.90
11:AN:13:GLN:HG3	11:AN:76:GLY:CA	2.00	0.90
24:BA:1887:C:C2'	24:BA:1888:G:H5"	1.99	0.90
24:DA:1178:C:H2'	24:DA:1179:C:H6	1.33	0.90
24:DA:1211:U:H4'	24:DA:1212:G:OP2	1.71	0.90
13:AP:9:ILE:CB	13:AP:10:PRO:HD3	1.99	0.90
24:BA:242:G:O2'	24:BA:243:U:OP2	1.87	0.90
24:BA:1360:A:H5'	24:BA:1361:G:OP2	1.71	0.90
30:BH:9:ILE:HB	30:BH:10:PRO:HA	1.52	0.90
24:DA:1826:G:H4'	26:DD:242:ARG:HH21	1.36	0.90
43:DU:38:ILE:HG22	43:DU:66:PRO:HA	1.54	0.90
28:BF:102:PRO:HB2	28:BF:105:VAL:HG23	1.52	0.90
8:CK:6:ILE:H	8:CK:6:ILE:HD12	1.34	0.90
19:CV:63:THR:HG23	19:CV:66:MET:HE3	1.50	0.90
24:DA:910:A:H62	35:DP:12:GLN:HA	1.34	0.90
3:AF:27:LYS:HE2	3:AF:27:LYS:HA	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AX:9:ARG:HH11	21:AX:13:ILE:HD12	1.37	0.90
26:DD:147:LEU:HD13	26:DD:155:LEU:HD11	1.51	0.90
34:DO:106:LEU:O	34:DO:107:LYS:HB2	1.71	0.90
40:D2:44:LYS:O	40:D2:46:VAL:HG12	1.72	0.90
13:CP:90:LEU:HA	13:CP:93:ARG:HD2	1.50	0.90
26:DD:44:ASN:H	26:DD:44:ASN:HD22	1.19	0.90
40:D2:24:LYS:HA	40:D2:92:THR:HG23	1.52	0.90
1:AA:429:U:H4'	1:AA:430:A:O5'	1.69	0.90
4:AG:162:LEU:HD22	4:AG:178:VAL:HG13	1.52	0.90
5:AH:56:GLN:HE21	5:AH:56:GLN:HA	1.37	0.90
24:BA:2176:A:H2'	24:BA:2177:C:C6	2.06	0.90
1:CA:411:A:H62	1:CA:413:G:H21	1.14	0.90
19:CV:42:PRO:HD3	49:D4:63:TYR:HE2	1.37	0.90
50:D5:3:LYS:HA	50:D5:3:LYS:HE3	1.54	0.90
1:AA:697:U:H5'	1:AA:697:U:H6	1.36	0.90
4:AG:3:ARG:HB3	4:AG:3:ARG:HH21	1.36	0.90
12:AO:47:LYS:HB3	12:AO:48:PRO:HD2	1.54	0.90
24:BA:443:A:H1'	24:BA:1201:C:O4'	1.72	0.90
24:BA:2311:A:H3'	24:BA:2312:U:C5	2.06	0.90
24:BA:2720:U:H3	24:BA:2873:A:H2	1.15	0.90
26:BD:27:THR:HG22	26:BD:28:GLU:N	1.86	0.90
41:BS:36:LEU:HD13	41:BS:48:ALA:HA	1.51	0.90
26:DD:183:ARG:HH11	26:DD:183:ARG:HG2	1.34	0.90
2:AE:32:ILE:HG23	2:AE:33:TYR:H	1.36	0.90
10:AM:6:ILE:HG22	10:AM:98:ILE:HG23	1.53	0.90
24:BA:1378:A:HO2'	24:BA:1379:A:H5"	1.08	0.90
26:BD:10:THR:HG23	26:BD:13:ARG:HB2	1.52	0.90
24:DA:302:C:H2'	24:DA:303:U:H6	1.35	0.90
24:DA:1318:C:C2'	24:DA:1319:G:H5"	2.00	0.90
1:AA:1343:G:H4'	9:AL:122:ALA:HB3	1.53	0.90
22:AC:75:C:H3'	22:AC:76:A:C5'	2.01	0.90
37:BQ:106:ARG:HB2	37:BQ:106:ARG:HH11	1.35	0.90
39:B1:95:LEU:C	39:B1:97:ASP:H	1.79	0.90
51:B6:12:GLU:HB2	51:B6:22:ALA:HB3	1.54	0.90
30:DH:4:ILE:HG13	30:DH:6:ARG:CZ	2.01	0.90
1:AA:533:A:O2'	1:AA:534:U:H5'	1.71	0.89
19:AV:64:GLU:OE1	49:B4:56:VAL:HB	1.72	0.89
26:BD:196:VAL:HG12	26:BD:197:GLY:H	1.36	0.89
33:BN:61:VAL:HG12	33:BN:87:ILE:HD11	1.54	0.89
24:DA:1838:C:N4	24:DA:1898:U:H2'	1.88	0.89
41:DS:65:LEU:HD12	41:DS:68:ARG:HH11	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:44:ASN:CB	26:BD:49:ILE:HA	2.03	0.89
5:CH:100:VAL:HG22	5:CH:118:ILE:HG22	1.52	0.89
26:DD:69:ARG:HH21	26:DD:130:ALA:HB2	1.37	0.89
44:DV:107:THR:HB	44:DV:144:LEU:HB2	1.52	0.89
46:DZ:81:LYS:HA	46:DZ:81:LYS:HZ3	0.75	0.89
1:AA:1375:A:H4'	7:AJ:29:LYS:NZ	1.86	0.89
9:AL:27:THR:HB	9:AL:32:ASP:HA	1.53	0.89
24:BA:2458:G:H2'	24:BA:2490:G:O6	1.72	0.89
19:CV:64:GLU:O	19:CV:67:VAL:HG23	1.73	0.89
47:DW:65:ASN:HB3	47:DW:69:ARG:HH12	1.34	0.89
24:BA:608:A:C4	24:BA:621:A:N6	2.40	0.89
24:BA:2394:C:OP2	53:B8:30:ARG:HD3	1.70	0.89
25:DB:12:C:H2'	45:D3:74:ARG:HG3	1.54	0.89
47:DW:65:ASN:HD22	47:DW:69:ARG:NH2	1.70	0.89
22:CB:49:C:N3	22:CB:60:A:H1'	1.87	0.89
20:AW:26:ASN:HB2	20:AW:71:THR:HG23	1.55	0.89
24:BA:434:U:H4'	24:BA:435:C:OP1	1.70	0.89
24:BA:1225:C:O3'	40:B2:85:LYS:HB2	1.73	0.89
40:B2:35:LEU:HD23	40:B2:37:VAL:HG22	1.54	0.89
47:BW:33:MET:HG2	47:BW:37:PHE:HE1	1.37	0.89
2:CE:7:VAL:HG21	2:CE:217:ARG:NH1	1.87	0.89
29:DG:116:ASP:O	29:DG:117:PHE:HB3	1.72	0.89
30:DH:26:VAL:HG13	30:DH:27:LYS:H	1.36	0.89
34:DO:88:LEU:HD12	34:DO:95:VAL:HG11	1.52	0.89
53:D8:52:LYS:H	53:D8:53:PRO:HD3	1.35	0.89
1:AA:1055:A:O2'	3:AF:161:GLU:HG2	1.73	0.89
27:BE:60:ASN:ND2	27:BE:63:LEU:HB2	1.86	0.89
19:AV:36:ARG:NH1	19:AV:73:GLU:H	1.70	0.89
12:CO:6:THR:H	12:CO:9:GLN:HE21	1.14	0.89
23:C1:12:A:H3'	23:C1:13:A:H5"	1.52	0.89
1:AA:1379:G:H5"	7:AJ:3:ARG:HE	1.37	0.89
4:AG:129:ASN:ND2	4:AG:145:GLU:H	1.69	0.89
24:BA:2791:C:H5'	24:BA:2792:G:OP1	1.73	0.89
24:BA:2864:G:OP1	38:BR:119:LYS:HD2	1.73	0.89
28:BF:78:ILE:HA	28:BF:83:PHE:CD1	2.08	0.89
30:BH:45:VAL:O	30:BH:46:GLU:HB2	1.70	0.89
1:CA:452:A:H62	1:CA:480:U:H3	1.21	0.89
27:DE:63:LEU:HD12	27:DE:64:LYS:N	1.88	0.89
53:D8:59:LYS:HB2	53:D8:59:LYS:NZ	1.88	0.89
1:AA:188:U:O2'	1:AA:189:U:H5'	1.71	0.89
2:AE:166:ASP:HB3	2:AE:169:LYS:HB2	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2348:U:C2'	24:BA:2349:G:H5"	2.02	0.89
26:BD:35:LYS:NZ	26:BD:104:TYR:HB2	1.86	0.89
1:CA:1452:C:H4'	1:CA:1453:G:OP1	1.72	0.89
2:CE:126:GLU:HG3	2:CE:129:GLU:HG3	1.54	0.89
24:DA:265:A:O2'	24:DA:266:G:H4'	1.72	0.89
30:DH:10:PRO:HD2	30:DH:50:VAL:O	1.72	0.89
34:DO:58:THR:O	34:DO:61:ARG:NE	2.05	0.89
2:CE:18:GLY:N	2:CE:42:ILE:HG22	1.86	0.89
24:DA:1899:G:N2	24:DA:1902:C:N4	2.19	0.89
24:BA:1543:A:H1'	24:BA:1545:A:O4'	1.72	0.88
26:BD:155:LEU:HD23	26:BD:177:LEU:HD22	1.54	0.88
24:DA:2210:G:H3'	24:DA:2211:G:C8	2.08	0.88
1:AA:559:A:H4'	1:AA:560:U:H5"	1.55	0.88
24:BA:1925:C:N4	24:BA:1926:U:C6	2.41	0.88
31:BK:79:ILE:H	31:BK:142:VAL:HG21	0.76	0.88
34:BO:57:THR:CG2	34:BO:60:MET:HB2	2.03	0.88
5:CH:71:LEU:O	5:CH:72:GLN:HG3	1.74	0.88
29:DG:88:ILE:HD13	29:DG:88:ILE:O	1.72	0.88
31:DK:75:LEU:HB3	31:DK:105:HIS:CE1	2.08	0.88
1:AA:721:G:H4'	1:AA:722:A:O5'	1.73	0.88
4:AG:19:LEU:HD12	4:AG:21:LEU:HD23	1.55	0.88
31:BK:13:GLY:HA3	31:BK:17:GLN:NE2	1.88	0.88
24:DA:554:U:HO2'	24:DA:556:G:H8	1.20	0.88
24:DA:803:U:H5'	24:DA:803:U:H6	1.39	0.88
30:BH:9:ILE:HG12	30:BH:51:ARG:HA	1.53	0.88
40:B2:98:GLU:OE2	40:B2:100:ARG:HD3	1.73	0.88
1:CA:96:G:C2'	1:CA:97:U:H5'	2.03	0.88
2:CE:32:ILE:HD11	2:CE:40:HIS:HB3	1.52	0.88
43:DU:76:CYS:SG	43:DU:77:PRO:HD2	2.13	0.88
31:BK:47:LEU:HA	31:BK:50:ARG:NE	1.88	0.88
43:BU:91:GLU:HG3	43:BU:92:ASN:H	1.37	0.88
53:B8:8:LYS:HB3	53:B8:12:LYS:HE3	1.55	0.88
1:CA:243:A:H4'	1:CA:244:U:H5"	1.54	0.88
1:CA:954:G:H4'	13:CP:121:LYS:HG3	1.55	0.88
24:DA:1955:U:O2'	24:DA:1956:U:H5'	1.73	0.88
32:DM:22:THR:HG22	32:DM:23:LEU:N	1.88	0.88
34:DO:64:LYS:O	34:DO:66:GLY:N	2.07	0.88
37:DQ:106:ARG:NH1	37:DQ:106:ARG:HB2	1.88	0.88
9:AL:16:ARG:O	9:AL:63:ILE:HG23	1.74	0.88
24:BA:955:C:H5'	24:BA:956:G:OP2	1.73	0.88
35:BP:54:MET:HE1	35:BP:118:LEU:HD23	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CQ:12:ARG:C	14:CQ:14:PRO:HD2	1.98	0.88
19:CV:68:GLY:HA3	49:D4:68:ARG:CB	2.03	0.88
24:DA:1405:U:H2'	24:DA:1406:U:H6	1.39	0.88
1:AA:8:A:N6	4:AG:209:ARG:HB2	1.89	0.88
42:BT:50:LYS:N	42:BT:87:GLN:HE22	1.72	0.88
24:DA:2394:C:OP1	34:DO:63:PRO:HD2	1.72	0.88
31:DK:144:VAL:O	31:DK:145:VAL:HG22	1.74	0.88
1:AA:448:A:H62	1:AA:486:U:H3	1.21	0.88
2:AE:11:LEU:HD13	2:AE:11:LEU:H	1.39	0.88
9:AL:28:VAL:HG21	9:AL:63:ILE:H	1.35	0.88
23:A1:22:A:H3'	23:A1:23:A:H5"	1.54	0.88
24:BA:27:G:N2	24:BA:512:G:H2'	1.87	0.88
24:BA:2250:G:C5	35:BP:82:ARG:HD3	2.09	0.88
2:CE:77:ALA:HB2	2:CE:211:ILE:HD13	1.53	0.88
24:DA:780:G:H21	24:DA:783:A:H62	1.16	0.88
24:DA:879:G:H1	24:DA:898:C:H42	1.14	0.88
4:AG:120:LEU:HB3	4:AG:126:ILE:HD11	1.54	0.88
5:AH:51:VAL:HG23	5:AH:52:PRO:HD3	1.54	0.88
10:AM:8:LEU:HD22	10:AM:20:ALA:HB2	1.56	0.88
34:BO:55:ARG:HG2	34:BO:56:SER:H	1.38	0.88
39:B1:104:GLN:H	39:B1:104:GLN:NE2	1.72	0.88
1:CA:197:A:H4'	1:CA:198:G:O5'	1.73	0.88
24:DA:51:G:O2'	24:DA:119:A:N1	2.05	0.88
35:DP:64:ILE:HA	35:DP:106:VAL:HG12	1.54	0.88
7:AJ:76:ARG:HH11	7:AJ:78:ARG:HH12	1.21	0.88
24:BA:654(R):C:N3	24:BA:654(R):C:OP2	2.03	0.88
44:BV:111:VAL:O	44:BV:113:ALA:N	2.06	0.88
47:BW:46:GLN:H	47:BW:49:LYS:HZ1	1.21	0.88
53:B8:32:LEU:HD23	53:B8:34:TRP:H	1.38	0.88
21:CX:6:ARG:HE	21:CX:15:ARG:CZ	1.87	0.88
24:DA:1061:U:H3'	24:DA:1062:G:H5"	1.55	0.88
26:DD:27:THR:HG23	26:DD:28:GLU:H	1.38	0.88
27:DE:77:ILE:HD12	27:DE:78:LEU:N	1.89	0.88
45:D3:25:ARG:HD2	45:D3:29:GLN:NE2	1.90	0.88
1:AA:1347:G:C8	9:AL:107:ARG:HB3	2.08	0.87
24:BA:2805:G:H2'	24:BA:2807:G:C8	2.10	0.87
37:BQ:106:ARG:HA	37:BQ:110:LEU:HG	1.56	0.87
39:B1:100:VAL:O	39:B1:101:ARG:HG2	1.74	0.87
42:BT:8:ILE:H	42:BT:8:ILE:HD12	1.36	0.87
20:CW:23:ARG:HA	20:CW:26:ASN:HD21	1.37	0.87
24:DA:1929:G:O5'	24:DA:1929:G:C8	2.27	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:44:ASN:CB	26:DD:49:ILE:HA	2.04	0.87
1:AA:1182:G:H4'	1:AA:1183:A:OP2	1.72	0.87
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.72	0.87
7:AJ:113:GLU:HB3	7:AJ:118:VAL:HG23	1.56	0.87
27:BE:52:LEU:O	27:BE:74:PRO:HA	1.72	0.87
40:B2:49:THR:HB	40:B2:50:PRO:HD3	1.54	0.87
34:DO:49:ARG:HD2	53:D8:58:ILE:HG22	1.54	0.87
7:AJ:120:ILE:O	7:AJ:124:LEU:HB2	1.74	0.87
24:BA:943:U:OP2	34:BO:36:LYS:HG3	1.75	0.87
31:BK:3:VAL:HG12	31:BK:38:LEU:HA	1.53	0.87
4:CG:114:ARG:HH11	4:CG:114:ARG:HG3	1.39	0.87
5:AH:56:GLN:HA	5:AH:56:GLN:NE2	1.86	0.87
33:BN:2:ILE:CD1	33:BN:82:ASN:HD22	1.88	0.87
1:CA:558:G:H2'	1:CA:559:A:H2	1.38	0.87
5:CH:41:VAL:HG11	5:CH:113:ALA:HB2	1.54	0.87
19:CV:8:GLY:O	19:CV:9:VAL:HG22	1.75	0.87
24:DA:2189:U:H2'	24:DA:2190:G:H5"	1.56	0.87
31:DK:9:LEU:O	31:DK:10:GLU:HG3	1.74	0.87
46:DZ:82:LEU:HD11	46:DZ:83:GLU:O	1.75	0.87
1:AA:1008:C:H4'	1:AA:1008:C:OP1	1.73	0.87
24:BA:1180:C:H2'	24:BA:1181:C:C6	2.08	0.87
34:BO:146:VAL:HG22	34:BO:147:LEU:H	1.39	0.87
53:B8:62:LEU:HB2	53:B8:63:PRO:HD3	1.54	0.87
13:CP:97:PRO:HB2	13:CP:101:GLN:NE2	1.89	0.87
24:DA:2439:A:H5'	24:DA:2439:A:C8	2.10	0.87
46:DZ:82:LEU:HD13	46:DZ:83:GLU:O	1.74	0.87
25:BB:24:G:H2'	25:BB:56:G:O6	1.74	0.87
34:BO:62:LEU:HD13	34:BO:62:LEU:C	1.99	0.87
36:B0:87:TYR:HE1	36:B0:117:VAL:HG13	1.38	0.87
24:DA:2147:G:H2'	24:DA:2148:G:O4'	1.74	0.87
26:DD:181:GLU:HA	26:DD:272:ALA:HB3	1.57	0.87
4:AG:3:ARG:HB3	4:AG:3:ARG:NH2	1.89	0.87
24:BA:2444:G:OP2	28:BF:68:LYS:HE3	1.75	0.87
43:BU:83:THR:HG22	43:BU:85:VAL:HG23	1.56	0.87
44:DV:24:LEU:HD11	44:DV:86:VAL:HG23	1.57	0.87
44:BV:111:VAL:HG11	44:BV:145:GLU:OE1	1.74	0.87
48:BX:8:LEU:HD12	48:BX:31:LEU:HA	1.54	0.87
1:CA:1014:A:H4'	19:CV:14:HIS:NE2	1.90	0.87
10:CM:74:ILE:HD13	10:CM:74:ILE:H	1.38	0.87
11:CN:32:ILE:HD12	11:CN:72:ALA:HB2	1.56	0.87
24:DA:1880:C:H5'	24:DA:1880:C:H6	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AH:36:ASP:OD1	5:AH:38:GLN:HB3	1.75	0.87
12:AO:70:ILE:HG12	12:AO:100:ILE:HD12	1.57	0.87
24:BA:654(B):C:H2'	24:BA:654(C):G:C8	2.09	0.87
24:BA:2795:G:H3'	24:BA:2797:U:H5'	1.56	0.87
26:BD:27:THR:HG22	26:BD:28:GLU:H	1.40	0.87
35:BP:77:LYS:CE	35:BP:82:ARG:HA	2.04	0.87
1:CA:73:G:C2	1:CA:74:C:N4	2.42	0.87
8:CK:51:VAL:HG21	8:CK:60:ARG:HG2	1.55	0.87
24:DA:1021:A:H3'	24:DA:1021:A:C8	2.10	0.87
1:AA:690:G:H22	11:AN:55:LYS:NZ	1.72	0.86
9:AL:27:THR:CB	9:AL:32:ASP:HA	2.03	0.86
18:AU:19:LYS:HD3	18:AU:19:LYS:N	1.90	0.86
27:BE:60:ASN:O	27:BE:61:ARG:HB2	1.75	0.86
43:BU:62:GLU:CD	43:BU:63:LYS:H	1.83	0.86
45:B3:49:LYS:HE2	45:B3:49:LYS:N	1.88	0.86
51:B6:52:VAL:HG22	51:B6:53:LYS:H	1.37	0.86
19:CV:27:GLU:O	19:CV:28:LYS:HG2	1.74	0.86
1:AA:1443:G:H3'	1:AA:1446:A:H5"	1.56	0.86
41:BS:65:LEU:HD13	41:BS:68:ARG:HD2	1.57	0.86
13:CP:4:ILE:H	13:CP:9:ILE:CG2	1.88	0.86
24:DA:566:U:OP1	34:DO:29:LYS:HE2	1.75	0.86
24:DA:1359:A:H3'	24:DA:1359:A:H8	1.40	0.86
34:DO:18:ARG:O	34:DO:19:VAL:HB	1.75	0.86
6:AI:77:ARG:HB3	6:AI:77:ARG:HH11	1.37	0.86
13:AP:79:LYS:HE3	13:AP:82:MET:HE2	1.57	0.86
20:AW:58:LYS:O	20:AW:58:LYS:HD3	1.75	0.86
24:BA:1019:U:HO2'	24:BA:1021:A:H2	1.15	0.86
28:BF:127:GLU:HB2	28:BF:196:LEU:HD12	1.57	0.86
43:BU:17:SER:HB2	43:BU:71:LYS:HD2	1.58	0.86
47:BW:46:GLN:H	47:BW:49:LYS:NZ	1.72	0.86
1:CA:991:U:O2	1:CA:993:G:H8	1.59	0.86
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.11	0.86
2:CE:96:ARG:HD2	2:CE:96:ARG:H	1.38	0.86
24:DA:141:A:H8	24:DA:1595:G:H21	1.16	0.86
24:DA:1864:U:C3'	24:DA:1869:G:H5"	2.04	0.86
26:DD:35:LYS:HG2	26:DD:64:ILE:H	1.40	0.86
29:DG:101:ILE:HG13	29:DG:102:PHE:N	1.86	0.86
31:DK:109:ILE:HB	31:DK:130:TYR:OH	1.75	0.86
39:D1:92:ARG:HD2	40:D2:11:GLN:NE2	1.90	0.86
22:AC:18:G:H22	22:AC:57:A:H2'	1.39	0.86
30:BH:35:VAL:HG11	30:BH:72:ILE:HG12	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:45:ASN:HD22	32:BM:45:ASN:H	1.23	0.86
46:BZ:91:LYS:HE3	46:BZ:91:LYS:CA	2.05	0.86
10:CM:7:LYS:HB2	10:CM:97:GLU:HB2	1.57	0.86
29:DG:145:THR:HG23	49:D4:28:LYS:HZ1	1.38	0.86
40:D2:19:LYS:HD2	40:D2:95:LEU:HD23	1.55	0.86
1:AA:1129:C:H4'	1:AA:1130:A:H5'	1.57	0.86
1:AA:1229:A:OP2	13:AP:114:ARG:HD3	1.76	0.86
5:AH:60:TYR:HB3	5:AH:64:ARG:HH21	1.39	0.86
8:AK:12:ARG:NH1	8:AK:27:PRO:HD3	1.90	0.86
8:AK:83:ILE:HB	8:AK:137:VAL:HG13	1.56	0.86
25:BB:7:G:H3'	25:BB:8:U:H5"	1.57	0.86
1:CA:188:U:H2'	1:CA:189:U:H5"	1.57	0.86
24:DA:2393:A:H4'	34:DO:61:ARG:O	1.75	0.86
29:DG:161:THR:HG22	29:DG:163:ALA:H	1.39	0.86
1:AA:134:A:H61	16:AS:25:ARG:HH12	1.21	0.86
15:AR:55:GLY:HA2	15:AR:58:MET:HE3	1.56	0.86
24:BA:1454:U:H4'	24:BA:1455:G:OP1	1.74	0.86
46:BZ:91:LYS:HA	46:BZ:91:LYS:CE	2.01	0.86
24:DA:297:C:H5"	43:DU:85:VAL:HG21	1.56	0.86
28:DF:7:TYR:HB3	28:DF:21:ALA:HB1	1.53	0.86
44:DV:53:ILE:HG22	44:DV:71:VAL:O	1.76	0.86
1:AA:1022:G:H2'	1:AA:1023:G:H8	1.41	0.86
19:AV:39:THR:HG22	19:AV:40:ILE:H	1.39	0.86
19:AV:50:ALA:HB1	19:AV:57:HIS:HB3	1.55	0.86
24:BA:195:A:OP1	34:BO:46:LYS:HE2	1.76	0.86
1:CA:1285:A:H4'	1:CA:1286:A:O5'	1.74	0.86
30:DH:127:GLU:HG2	30:DH:128:PRO:HD3	0.86	0.86
1:AA:376:G:H5"	16:AS:5:ARG:HD3	1.57	0.86
1:AA:632:A:O2'	1:AA:633:G:OP2	1.94	0.86
1:AA:1036:G:H5'	1:AA:1037:C:H5	1.40	0.86
24:BA:2310:A:H62	29:BG:79:ASN:ND2	1.74	0.86
24:BA:2475:C:H5'	24:BA:2476:A:OP2	1.74	0.86
26:BD:35:LYS:HG2	26:BD:64:ILE:H	1.33	0.86
27:BE:154:LYS:HA	27:BE:154:LYS:HE3	1.57	0.86
29:BG:56:ALA:HB2	29:BG:153:ARG:NE	1.91	0.86
36:B0:87:TYR:CE1	36:B0:117:VAL:HG13	2.09	0.86
38:BR:3:ARG:HG2	38:BR:6:LEU:HB2	1.56	0.86
44:BV:111:VAL:O	44:BV:111:VAL:HG12	1.73	0.86
44:BV:120:ILE:HG23	44:BV:171:ILE:HG12	1.57	0.86
11:AN:11:LYS:HE3	24:BA:2144:U:O4	1.74	0.86
24:BA:800:A:H4'	24:BA:801:G:O5'	1.72	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:24:LEU:CD1	28:BF:25:PRO:HD2	2.05	0.86
38:BR:102:ILE:O	38:BR:106:SER:HB3	1.75	0.86
24:DA:2756:U:O2'	24:DA:2757:A:H5"	1.76	0.86
1:AA:872:A:O2'	1:AA:873:A:H3'	1.76	0.86
4:AG:86:LYS:HA	4:AG:86:LYS:NZ	1.91	0.86
24:BA:1464:C:O2'	24:BA:1528:A:H8	1.56	0.86
24:BA:1879:C:H2'	24:BA:1880:C:C5'	2.06	0.86
29:BG:75:LYS:HG3	29:BG:76:SER:H	1.41	0.86
30:BH:124:GLU:O	30:BH:125:VAL:HG23	1.75	0.86
1:CA:1347:G:N2	1:CA:1373:G:H2'	1.91	0.86
24:DA:1076:C:C2'	24:DA:1077:A:H5"	2.06	0.86
24:DA:1280:G:H2'	24:DA:1281:G:H5"	1.56	0.86
20:AW:100:ILE:H	20:AW:100:ILE:HD12	1.41	0.85
27:BE:7:VAL:HG21	38:BR:1:MET:HE1	1.57	0.85
27:BE:78:LEU:N	27:BE:78:LEU:HD23	1.91	0.85
34:BO:55:ARG:HG2	34:BO:56:SER:N	1.91	0.85
34:BO:75:ILE:H	34:BO:75:ILE:HD13	1.41	0.85
46:BZ:87:PRO:HA	46:BZ:90:ILE:CG2	2.06	0.85
24:DA:1884:A:H2'	24:DA:1885:A:H5"	1.56	0.85
1:AA:537:G:H5"	12:AO:113:ARG:HH12	1.41	0.85
15:AR:87:ILE:HG22	15:AR:88:ARG:N	1.90	0.85
24:BA:2746:U:H4'	30:BH:138:LYS:HG3	1.55	0.85
27:BE:151:TYR:HD2	27:BE:154:LYS:HZ2	1.21	0.85
38:BR:24:PRO:HA	38:BR:49:VAL:HG13	1.58	0.85
42:BT:63:LYS:HD2	42:BT:63:LYS:H	1.39	0.85
1:CA:1239:A:H62	1:CA:1299:A:N6	1.74	0.85
24:DA:1288:U:O2'	24:DA:1647:G:N2	2.08	0.85
35:DP:75:THR:HA	35:DP:88:GLY:O	1.76	0.85
44:DV:5:LEU:HD11	44:DV:39:VAL:HB	1.56	0.85
1:AA:327:A:H4'	1:AA:328:C:OP1	1.76	0.85
1:AA:827:U:N3	1:AA:872:A:N6	2.22	0.85
24:BA:1085:A:H2'	24:BA:1086:A:C8	2.11	0.85
24:BA:2562:U:H1'	33:BN:23:ARG:NH1	1.89	0.85
28:BF:4:VAL:HA	28:BF:19:GLU:HB3	1.58	0.85
31:BK:78:THR:HB	31:BK:104:GLN:NE2	1.91	0.85
24:DA:1102:C:H2'	24:DA:1103:A:H5"	1.59	0.85
31:DK:67:ARG:HE	31:DK:68:LEU:H	1.20	0.85
37:DQ:106:ARG:HB2	37:DQ:106:ARG:HH11	1.39	0.85
44:DV:72:ARG:HB2	44:DV:72:ARG:HH11	1.42	0.85
1:AA:920:U:H2'	1:AA:921:U:C6	2.10	0.85
4:AG:129:ASN:HD21	4:AG:145:GLU:N	1.73	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AD:15:G:N2	22:AD:48:C:H42	1.75	0.85
24:BA:1697:G:H3'	24:BA:1698:A:H5"	1.58	0.85
24:BA:2061:G:OP1	28:BF:68:LYS:NZ	2.10	0.85
24:BA:2562:U:H1'	33:BN:23:ARG:HH12	1.40	0.85
27:BE:199:ARG:HB2	27:BE:199:ARG:HH11	1.41	0.85
37:BQ:106:ARG:HB3	37:BQ:110:LEU:HD21	1.56	0.85
38:BR:26:ASP:CB	38:BR:91:ARG:HA	2.06	0.85
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.12	0.85
2:CE:67:THR:HG21	2:CE:155:LEU:HD21	1.57	0.85
20:CW:36:LEU:HD13	20:CW:39:LYS:HD3	1.57	0.85
24:DA:482:A:H4'	43:DU:47:LYS:HD2	1.58	0.85
24:DA:583:G:H5"	39:D1:10:ARG:HH12	1.42	0.85
24:DA:2503:A:H4'	24:DA:2504:U:OP1	1.73	0.85
34:DO:75:ILE:HD13	34:DO:75:ILE:H	1.39	0.85
43:DU:51:VAL:O	43:DU:56:PRO:HA	1.76	0.85
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.11	0.85
24:BA:394:A:H5'	24:BA:395:U:OP2	1.76	0.85
24:BA:925:C:C2'	24:BA:926:A:H5"	2.07	0.85
32:BM:39:ARG:HH21	32:BM:41:ASP:CB	1.88	0.85
24:DA:704:G:H2'	24:DA:726:G:N2	1.90	0.85
29:DG:67:LYS:HE2	49:D4:6:HIS:NE2	1.91	0.85
34:DO:101:VAL:HG23	34:DO:107:LYS:H	1.41	0.85
4:AG:108:LEU:HD21	4:AG:183:GLY:HA3	1.57	0.85
13:AP:54:VAL:HG22	13:AP:57:ARG:NH2	1.92	0.85
28:BF:89:VAL:HG12	28:BF:90:PHE:N	1.90	0.85
30:BH:89:ILE:HD11	30:BH:129:THR:HB	1.58	0.85
5:CH:51:VAL:HB	5:CH:52:PRO:HD3	1.59	0.85
24:DA:50:U:H4'	24:DA:51:G:OP2	1.77	0.85
38:DR:111:ARG:O	38:DR:112:ARG:HG3	1.76	0.85
24:BA:1929:G:H4'	24:BA:1930:G:OP1	1.76	0.85
29:BG:95:ARG:HG3	29:BG:96:ARG:HG3	1.57	0.85
15:CR:56:LEU:O	15:CR:60:VAL:HG23	1.75	0.85
19:CV:41:VAL:HG13	19:CV:44:MET:HB2	1.57	0.85
24:BA:2189:U:H2'	24:BA:2190:G:H5"	1.58	0.85
27:BE:116:VAL:O	27:BE:117:MET:HB3	1.74	0.85
31:BK:82:ARG:NH2	1:CA:56:U:H4'	1.92	0.85
22:CD:26:G:H1	22:CD:44:A:H61	1.21	0.85
24:DA:1049:C:H5'	24:DA:1049:C:H6	1.42	0.85
24:DA:1188:U:O2'	24:DA:1189:A:H5'	1.77	0.85
24:DA:1460:A:H4'	24:DA:1461:G:OP2	1.77	0.85
26:DD:28:GLU:HB2	26:DD:29:PRO:HD2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:89:ILE:HD11	30:DH:129:THR:HB	1.58	0.85
44:DV:59:LEU:O	44:DV:60:GLU:HG2	1.75	0.85
1:CA:1152:A:H5"	10:CM:13:HIS:CD2	2.11	0.85
24:DA:2404:C:H1'	34:DO:67:MET:HE1	1.58	0.85
24:DA:2519:U:H4'	24:DA:2520:C:OP1	1.74	0.85
28:DF:82:ILE:O	28:DF:82:ILE:HG13	1.73	0.85
30:DH:8:PRO:C	30:DH:9:ILE:HG12	2.00	0.85
1:AA:701:C:H4'	1:AA:702:A:H5"	1.57	0.85
31:BK:2:LYS:HA	31:BK:20:ASP:HA	1.56	0.85
40:B2:69:LYS:HD3	40:B2:85:LYS:HD2	1.58	0.85
7:CJ:44:TYR:HA	7:CJ:47:CYS:SG	2.17	0.85
27:DE:81:ILE:O	27:DE:82:ARG:HB2	1.75	0.85
31:DK:88:ILE:HG12	31:DK:122:GLU:H	1.39	0.85
1:AA:56:U:H2'	1:AA:57:G:H8	1.41	0.84
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.40	0.84
11:AN:13:GLN:HE21	11:AN:76:GLY:HA3	1.41	0.84
24:BA:329:G:N7	43:BU:19:LYS:HG2	1.92	0.84
24:BA:2753:A:C2'	24:BA:2754:U:H5"	2.06	0.84
44:BV:103:ARG:CG	44:BV:104:PHE:H	1.90	0.84
2:CE:212:GLN:CD	2:CE:235:SER:HB2	2.02	0.84
15:CR:3:ILE:HD13	15:CR:3:ILE:H	1.40	0.84
24:DA:1169:G:C2'	24:DA:1170:G:H5"	2.06	0.84
33:DN:26:LYS:HB2	33:DN:30:ALA:HB2	1.59	0.84
40:D2:49:THR:HB	40:D2:50:PRO:CD	2.07	0.84
9:AL:28:VAL:HG22	9:AL:29:ASN:N	1.91	0.84
19:AV:19:VAL:HG13	19:AV:44:MET:SD	2.16	0.84
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.12	0.84
24:DA:881:G:H3'	24:DA:882:G:H5"	1.57	0.84
24:DA:1301:A:O2'	24:DA:1302:A:H3'	1.78	0.84
24:DA:2044:C:H5'	24:DA:2044:C:H6	1.42	0.84
1:AA:1280:A:H5'	1:AA:1281:U:OP2	1.77	0.84
35:BP:141:GLN:HG2	44:BV:75:ASN:ND2	1.91	0.84
46:BZ:78:LYS:O	46:BZ:78:LYS:HD3	1.75	0.84
1:CA:792:A:O2'	1:CA:793:U:OP2	1.94	0.84
1:CA:1346:A:N1	1:CA:1374:A:H5"	1.91	0.84
22:CD:54:U:H3	22:CD:58:A:H62	1.21	0.84
24:DA:1507:A:C3'	24:DA:1508:A:H5"	2.06	0.84
24:DA:2051:A:H61	24:DA:2614:A:H2'	1.41	0.84
27:DE:95:ILE:H	27:DE:95:ILE:HD12	1.42	0.84
29:DG:98:ARG:HA	29:DG:101:ILE:HG12	1.59	0.84
7:AJ:115:ARG:O	7:AJ:118:VAL:HG22	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1033:U:H4'	24:DA:1034:G:OP1	1.75	0.84
30:DH:54:ARG:NH1	30:DH:62:LYS:HG2	1.92	0.84
50:D5:40:LYS:HZ1	50:D5:48:GLU:HB2	1.41	0.84
14:AQ:12:ARG:HG2	14:AQ:14:PRO:HD3	1.58	0.84
26:BD:27:THR:CG2	26:BD:83:GLU:HG2	2.08	0.84
28:BF:18:ARG:NH2	28:BF:20:LEU:HD12	1.92	0.84
13:CP:14:ARG:H	13:CP:44:ARG:HD3	1.41	0.84
26:DD:17:THR:HG22	26:DD:205:VAL:H	1.41	0.84
27:DE:61:ARG:O	27:DE:63:LEU:HG	1.77	0.84
28:DF:53:THR:HG23	28:DF:56:GLU:OE1	1.77	0.84
34:DO:62:LEU:CD2	53:D8:25:MET:HB2	2.08	0.84
37:DQ:106:ARG:HA	37:DQ:110:LEU:CD1	2.08	0.84
24:BA:388:G:H5'	46:BZ:25:LYS:HB2	1.59	0.84
24:BA:2314:C:O2'	24:BA:2315:G:H5'	1.78	0.84
28:BF:178:PRO:HG2	28:BF:179:GLU:OE2	1.77	0.84
30:BH:26:VAL:HG13	30:BH:31:GLY:HA2	1.59	0.84
1:CA:235:C:H5'	17:CT:70:ARG:HG2	1.60	0.84
13:CP:121:LYS:HZ3	22:CB:41:C:H4'	1.41	0.84
24:DA:518:G:H4'	41:DS:18:ARG:NH1	1.91	0.84
1:AA:503:C:OP2	12:AO:116:SER:HB3	1.78	0.84
1:AA:939:G:H5"	7:AJ:102:ARG:NH2	1.92	0.84
3:AF:75:VAL:C	3:AF:83:ARG:HG2	2.02	0.84
26:BD:25:THR:HG21	26:BD:81:ALA:HB1	1.58	0.84
28:BF:53:THR:HG22	28:BF:56:GLU:CD	2.02	0.84
39:B1:81:HIS:HD2	39:B1:117:GLN:HE21	1.24	0.84
45:B3:23:VAL:HA	45:B3:38:VAL:HG22	1.59	0.84
1:CA:872:A:O2'	1:CA:873:A:H3'	1.76	0.84
35:DP:30:GLY:HA2	35:DP:107:ALA:HB2	1.60	0.84
37:DQ:83:LYS:HG2	37:DQ:109:GLY:CA	2.07	0.84
50:D5:40:LYS:HD3	50:D5:46:CYS:HB3	1.60	0.84
1:AA:60:A:H4'	1:AA:61:G:O5'	1.76	0.84
4:AG:17:VAL:HG11	4:AG:197:PRO:HB2	1.59	0.84
27:BE:14:ILE:HD11	27:BE:173:VAL:HG11	1.60	0.84
39:B1:16:LYS:O	39:B1:20:LEU:HD23	1.78	0.84
1:CA:351:G:H4'	1:CA:352:C:OP1	1.76	0.84
13:CP:23:TYR:HB3	13:CP:67:GLU:HG2	1.59	0.84
13:CP:121:LYS:NZ	22:CB:41:C:H4'	1.92	0.84
24:DA:363(F):A:H4'	24:DA:364:C:O5'	1.78	0.84
24:DA:1165:U:H2'	24:DA:1166:C:C6	2.12	0.84
24:DA:1496:A:H8	24:DA:1577:C:HO2'	0.86	0.84
24:DA:2656:U:H5	24:DA:2664:G:N2	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DR:3:ARG:HG3	38:DR:7:ILE:HG12	1.60	0.84
44:DV:108:PRO:HB2	44:DV:112:ARG:HB2	1.60	0.84
10:AM:49:VAL:HG13	14:AQ:41:ARG:HB2	1.58	0.84
24:BA:362:U:H5'	24:BA:363:G:OP1	1.77	0.84
24:BA:2420:C:H41	53:B8:31:HIS:HB3	1.41	0.84
38:BR:96:ARG:HB2	38:BR:96:ARG:NH1	1.92	0.84
37:DQ:89:ARG:HD2	37:DQ:92:TYR:O	1.78	0.84
43:DU:57:GLN:NE2	43:DU:58:GLY:H	1.76	0.84
24:BA:1496:A:H8	24:BA:1577:C:HO2'	0.84	0.84
28:BF:165:ARG:HH11	28:BF:165:ARG:HB3	1.40	0.84
30:BH:40:GLU:HG2	30:BH:41:MET:HE2	1.57	0.84
38:BR:19:LEU:HD22	38:BR:86:ILE:HG22	1.60	0.84
38:BR:62:THR:HG22	38:BR:75:ILE:HG12	1.60	0.84
47:BW:65:ASN:HD22	47:BW:69:ARG:HH21	1.20	0.84
10:CM:4:ILE:HB	10:CM:74:ILE:HD11	1.60	0.84
24:DA:1180:C:H2'	24:DA:1181:C:H5'	1.60	0.84
28:DF:32:LEU:HD13	28:DF:105:VAL:HG13	1.59	0.84
50:D5:39:MET:O	50:D5:40:LYS:HG3	1.77	0.84
1:AA:713:G:H21	1:AA:777:A:C4'	1.91	0.83
5:AH:9:LYS:HB2	5:AH:112:LEU:HD11	1.60	0.83
24:BA:1484:G:H2'	24:BA:1485:G:C5'	2.05	0.83
33:BN:113:LYS:O	33:BN:117:LEU:HD23	1.78	0.83
41:BS:54:ALA:CB	41:BS:107:LEU:HD21	2.08	0.83
3:CF:15:THR:CG2	3:CF:181:ASN:HA	2.08	0.83
10:CM:37:PRO:HA	10:CM:72:VAL:HG22	1.59	0.83
46:DZ:92:LYS:HG3	46:DZ:96:LYS:HB2	1.57	0.83
51:D6:27:LYS:HB2	51:D6:27:LYS:NZ	1.93	0.83
2:AE:219:VAL:HA	2:AE:222:ILE:HD12	1.58	0.83
4:AG:30:LYS:HZ3	4:AG:35:ARG:CZ	1.90	0.83
19:AV:36:ARG:HH11	19:AV:73:GLU:H	1.24	0.83
26:BD:25:THR:HG23	26:BD:26:LYS:N	1.91	0.83
40:B2:35:LEU:HD21	40:B2:57:VAL:CB	2.07	0.83
24:DA:1050:A:C8	24:DA:2751:G:H2'	2.14	0.83
31:DK:57:ARG:HB2	31:DK:57:ARG:HH11	1.42	0.83
31:DK:74:ASN:HD22	31:DK:74:ASN:H	1.25	0.83
1:AA:973:G:H3'	1:AA:974:A:H5"	1.60	0.83
24:BA:2030:A:H4'	24:BA:2031:A:H8	1.43	0.83
26:BD:25:THR:HG22	26:BD:82:ILE:O	1.78	0.83
33:BN:88:ASN:ND2	33:BN:90:GLN:HB2	1.93	0.83
43:BU:28:LYS:HZ3	43:BU:29:GLU:N	1.76	0.83
2:CE:178:ARG:HH21	8:CK:74:PRO:HB3	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CR:82:ILE:HD11	15:CR:88:ARG:CG	2.07	0.83
24:DA:483:A:H4'	43:DU:49:VAL:CA	2.03	0.83
24:DA:1803:A:H4'	26:DD:259:THR:CG2	2.08	0.83
36:D0:117:VAL:HG22	36:D0:118:GLU:H	1.43	0.83
1:AA:187:C:H2'	1:AA:188:U:O4'	1.78	0.83
1:AA:1031:G:H21	1:AA:1032:A:H1'	1.42	0.83
11:AN:16:SER:HA	11:AN:79:SER:O	1.78	0.83
39:B1:50:ARG:HH11	40:B2:72:VAL:HG21	1.43	0.83
1:CA:1234:C:H4'	1:CA:1364:U:O2'	1.78	0.83
24:DA:479:A:H4'	24:DA:480:A:OP1	1.76	0.83
24:DA:1281:G:H8	24:DA:1281:G:H5'	1.43	0.83
30:DH:13:LYS:HE2	30:DH:13:LYS:HA	1.61	0.83
34:DO:126:VAL:HG22	34:DO:145:PRO:HG2	1.61	0.83
1:AA:1041:A:H2'	1:AA:1042:G:H5"	1.61	0.83
19:AV:62:ILE:HA	19:AV:66:MET:HE1	1.59	0.83
10:CM:47:PHE:HE1	10:CM:63:PHE:HB2	1.40	0.83
14:CQ:8:GLU:OE2	14:CQ:11:LYS:HD2	1.78	0.83
14:CQ:21:TYR:HE2	14:CQ:23:ARG:HH21	1.24	0.83
1:AA:736:C:H2'	1:AA:737:A:H8	1.43	0.83
3:AF:131:ARG:HH12	3:AF:135:LYS:HE2	1.43	0.83
31:BK:107:VAL:HG12	31:BK:108:THR:H	1.41	0.83
36:B0:24:GLN:NE2	36:B0:36:THR:HG21	1.93	0.83
38:BR:20:PRO:HD2	38:BR:86:ILE:HG23	1.60	0.83
39:B1:92:ARG:HH12	40:B2:11:GLN:N	1.75	0.83
38:DR:53:ARG:O	38:DR:59:THR:HG23	1.78	0.83
1:AA:753:A:H5"	1:AA:754:C:OP1	1.79	0.83
1:AA:1274:G:N2	1:AA:1275:A:H62	1.75	0.83
1:AA:1342:C:H1'	9:AL:124:GLN:HE22	1.43	0.83
9:AL:16:ARG:HH11	9:AL:16:ARG:CB	1.90	0.83
24:BA:93:C:H5'	24:BA:94:G:OP2	1.78	0.83
24:BA:2051:A:H61	24:BA:2614:A:H2'	1.42	0.83
24:BA:2356:C:H4'	45:B3:20:ARG:HG3	1.60	0.83
36:B0:51:LEU:HD21	36:B0:66:VAL:HG13	1.59	0.83
37:BQ:67:ARG:NH1	37:BQ:67:ARG:HB2	1.93	0.83
1:CA:1129:C:C4'	1:CA:1130:A:H5'	2.09	0.83
1:CA:1330:U:H3'	1:CA:1331:G:O4'	1.78	0.83
1:CA:1347:G:C8	9:CL:107:ARG:HB3	2.14	0.83
24:DA:592:G:H21	53:D8:4:MET:HE2	1.43	0.83
24:DA:1030:G:OP2	35:DP:128:LYS:HE2	1.78	0.83
34:DO:59:LEU:HA	34:DO:61:ARG:HH21	1.44	0.83
44:DV:108:PRO:CG	44:DV:112:ARG:H	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:819:A:H5”	1:AA:820:U:OP2	1.77	0.83
1:AA:1085:U:H4’	1:AA:1086:U:OP1	1.77	0.83
4:AG:31:CYS:SG	4:AG:32:ALA:N	2.50	0.83
11:AN:13:GLN:HG3	11:AN:76:GLY:HA3	1.60	0.83
24:BA:1899:G:H22	24:BA:1902:C:H41	0.83	0.83
28:BF:164:ARG:HG3	28:BF:175:THR:OG1	1.78	0.83
43:BU:38:ILE:HG22	43:BU:66:PRO:HA	1.60	0.83
45:B3:40:GLN:HE22	45:B3:45:PHE:HB2	1.44	0.83
46:BZ:87:PRO:HA	46:BZ:90:ILE:HG22	1.61	0.83
47:BW:50:ILE:HD13	47:BW:51:ARG:H	1.44	0.83
24:DA:1943:U:H4’	24:DA:1944:U:O5’	1.77	0.83
24:DA:2298:A:H62	24:DA:2318:G:H8	1.27	0.83
22:AD:72:A:C2’	22:AD:73:A:H5”	2.08	0.83
24:BA:273(F):C:H3’	24:BA:274:G:H5”	1.60	0.83
24:BA:1925:C:C6	24:BA:1925:C:C3’	2.58	0.83
24:BA:1948:G:H5’	24:BA:1948:G:C8	2.14	0.83
24:BA:2776:A:H4’	24:BA:2777:G:H5”	1.61	0.83
24:BA:2778:A:H5’	24:BA:2779:U:OP2	1.79	0.83
1:CA:939:G:H5”	7:CJ:102:ARG:NH2	1.94	0.83
24:DA:2133:G:H21	24:DA:2158:A:H62	1.25	0.83
27:DE:7:VAL:HG23	27:DE:8:LYS:H	1.44	0.83
32:DM:131:GLN:NE2	32:DM:132:ALA:H	1.75	0.83
1:AA:537:G:H5”	12:AO:113:ARG:NH1	1.93	0.83
3:AF:87:LEU:H	3:AF:87:LEU:HD22	1.42	0.83
22:AD:68:C:C2’	22:AD:69:C:H5”	2.08	0.83
33:BN:120:GLU:OE2	33:BN:122:LEU:HD21	1.78	0.83
2:CE:204:ASN:ND2	2:CE:206:ASP:H	1.77	0.83
7:CJ:78:ARG:HG3	7:CJ:79:ARG:N	1.93	0.83
12:CO:38:THR:HG23	12:CO:39:VAL:HG23	1.60	0.83
22:CD:63:G:H2’	22:CD:64:G:H8	1.43	0.83
24:DA:1236:G:H4’	24:DA:1237:A:OP1	1.77	0.83
24:DA:2311:A:H3’	24:DA:2312:U:H5	1.43	0.83
43:DU:81:LYS:HD3	43:DU:97:ARG:HE	1.43	0.83
45:D3:35:ASN:HD22	45:D3:35:ASN:N	1.77	0.83
3:AF:16:ARG:NH2	3:AF:181:ASN:HA	1.94	0.82
24:BA:1236:G:H4’	24:BA:1237:A:OP1	1.79	0.82
26:BD:10:THR:HG23	26:BD:13:ARG:CB	2.09	0.82
44:BV:125:LEU:HG	44:BV:164:ALA:HB3	1.59	0.82
53:B8:14:VAL:HG12	53:B8:15:LYS:H	1.44	0.82
1:CA:1363:A:H4’	1:CA:1364:U:H5”	1.58	0.82
22:CD:20:U:C3’	22:CD:21:A:H5”	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1026:U:H4'	24:DA:1027:A:OP1	1.77	0.82
1:AA:1000:A:H3'	1:AA:1001:G:H5"	1.59	0.82
1:AA:1025:U:H2'	1:AA:1026:G:O4'	1.79	0.82
11:AN:96:ARG:HA	11:AN:99:GLN:HG3	1.58	0.82
13:AP:31:LYS:HA	13:AP:34:LEU:HD21	1.61	0.82
24:BA:2732:G:H3'	24:BA:2733:A:H5'	1.59	0.82
24:BA:2746:U:H5"	30:BH:138:LYS:HE3	1.62	0.82
27:BE:35:GLN:H	27:BE:48:GLN:HE21	1.23	0.82
29:BG:104:GLU:HG2	49:B4:23:GLU:HG3	1.61	0.82
41:BS:59:VAL:HG23	41:BS:65:LEU:N	1.93	0.82
41:BS:86:LEU:HD12	41:BS:87:PRO:HD2	1.62	0.82
49:B4:14:ILE:HD11	49:B4:33:VAL:HG23	1.60	0.82
1:CA:968:A:H4'	1:CA:969:A:OP2	1.77	0.82
5:CH:81:GLU:HB3	5:CH:90:VAL:HG22	1.60	0.82
26:DD:25:THR:CG2	26:DD:82:ILE:H	1.93	0.82
32:DM:133:GLN:HB2	32:DM:135:PRO:HD3	1.59	0.82
38:DR:24:PRO:HA	38:DR:49:VAL:HG13	1.59	0.82
39:D1:88:ILE:HD13	39:D1:88:ILE:H	1.44	0.82
24:BA:205:G:O2'	24:BA:206:U:OP2	1.97	0.82
24:BA:528:A:C2	24:BA:2042:A:H2'	2.14	0.82
24:BA:1747:G:O2'	24:BA:1748:G:H5'	1.78	0.82
25:BB:66:A:H61	25:BB:107:U:H2'	1.43	0.82
27:BE:61:ARG:C	27:BE:63:LEU:H	1.86	0.82
1:CA:1152:A:H5"	10:CM:13:HIS:HD2	1.43	0.82
2:CE:193:ASP:OD2	2:CE:196:LEU:HG	1.78	0.82
19:CV:50:ALA:HB1	19:CV:57:HIS:HB3	1.60	0.82
39:D1:64:ARG:HG2	39:D1:64:ARG:HH21	1.42	0.82
2:AE:178:ARG:HH21	8:AK:70:GLN:HA	1.42	0.82
4:AG:12:CYS:HA	4:AG:21:LEU:HD22	1.61	0.82
4:AG:29:PRO:CG	4:AG:30:LYS:H	1.91	0.82
22:AD:54:U:H3	22:AD:58:A:N6	1.78	0.82
28:BF:161:GLU:HG2	28:BF:164:ARG:NH2	1.93	0.82
4:CG:96:LEU:H	4:CG:96:LEU:HD22	1.43	0.82
24:DA:1021:A:H3'	24:DA:1021:A:H8	1.43	0.82
24:DA:1558:A:H4'	24:DA:1559:G:O5'	1.80	0.82
30:DH:153:LYS:HG2	30:DH:162:ILE:HG13	1.61	0.82
1:AA:8:A:H62	4:AG:209:ARG:HB2	1.42	0.82
3:AF:172:ARG:HH21	3:AF:174:PRO:HG2	1.44	0.82
24:BA:976:C:H5'	24:BA:1156:A:N6	1.93	0.82
1:CA:411:A:H62	1:CA:413:G:N2	1.78	0.82
31:DK:79:ILE:HB	31:DK:142:VAL:HA	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.14	0.82
2:AE:104:ASN:HD21	2:AE:107:THR:HB	1.43	0.82
22:AC:56:C:O2	29:BG:78:SER:HB2	1.79	0.82
49:B4:40:HIS:H	49:B4:41:PRO:HD2	1.43	0.82
52:B7:47:ARG:HH11	52:B7:47:ARG:H	1.28	0.82
2:CE:185:ILE:HG22	2:CE:199:TYR:HB2	1.61	0.82
24:DA:1280:G:C2'	24:DA:1281:G:H5"	2.09	0.82
27:DE:15:PHE:CE1	27:DE:20:ALA:HB2	2.14	0.82
13:AP:15:VAL:HA	13:AP:45:VAL:HG22	1.61	0.82
27:BE:47:VAL:HG12	27:BE:48:GLN:N	1.94	0.82
42:BT:65:ARG:HB3	42:BT:70:LEU:HA	1.58	0.82
1:CA:91:C:C2'	1:CA:92:G:H5"	2.09	0.82
1:CA:486:U:H2'	1:CA:487:A:H8	1.43	0.82
1:CA:1224:G:O2'	1:CA:1225:A:OP1	1.97	0.82
1:CA:1443:G:H3'	1:CA:1446:A:C5'	2.09	0.82
24:DA:2389:G:H5"	24:DA:2390:U:C5'	2.09	0.82
26:DD:35:LYS:NZ	26:DD:104:TYR:HB2	1.93	0.82
28:DF:192:LEU:HD21	28:DF:194:MET:HE3	1.59	0.82
29:DG:127:GLY:HA2	29:DG:166:ASP:CG	2.05	0.82
30:DH:105:LEU:H	30:DH:105:LEU:HD13	1.42	0.82
32:DM:22:THR:HG22	32:DM:23:LEU:H	1.45	0.82
38:DR:102:ILE:HA	38:DR:105:LEU:HD21	1.62	0.82
52:D7:8:ASN:ND2	52:D7:11:LYS:H	1.78	0.82
1:AA:1036:G:H5'	1:AA:1037:C:C5	2.14	0.82
1:AA:1322:C:O2'	1:AA:1323:G:H5'	1.80	0.82
37:BQ:61:ASN:O	37:BQ:65:VAL:HG23	1.80	0.82
45:B3:18:ALA:O	45:B3:19:LYS:HG2	1.79	0.82
1:CA:690:G:N2	11:CN:55:LYS:HZ1	1.76	0.82
17:CT:59:ILE:HG22	17:CT:73:VAL:HA	1.60	0.82
24:DA:49:A:N7	24:DA:120:U:H5	1.76	0.82
24:DA:676:A:H2	24:DA:802:A:H61	1.25	0.82
24:DA:894:C:H2'	24:DA:895:U:H6	1.45	0.82
24:DA:1102:C:C2'	24:DA:1103:A:H5"	2.10	0.82
24:DA:2562:U:H1'	33:DN:23:ARG:NH1	1.94	0.82
29:DG:179:PRO:HG3	49:D4:38:LYS:NZ	1.95	0.82
34:DO:39:LYS:HA	34:DO:45:LEU:CD1	2.10	0.82
47:DW:65:ASN:ND2	47:DW:69:ARG:HH22	1.78	0.82
49:D4:36:CYS:O	49:D4:39:CYS:HB2	1.80	0.82
49:D4:71:ARG:HG3	49:D4:71:ARG:NH1	1.90	0.82
1:AA:56:U:H2'	1:AA:57:G:C8	2.15	0.82
1:AA:1316:G:H4'	14:AQ:18:VAL:HG11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:91:PRO:CG	2:AE:154:LEU:HD21	2.10	0.82
7:AJ:15:ASP:OD1	7:AJ:18:TYR:HB2	1.80	0.82
34:BO:98:GLU:HA	34:BO:101:VAL:HG12	1.60	0.82
1:CA:192:U:H4'	20:CW:102:GLY:O	1.79	0.82
2:CE:84:GLU:OE1	2:CE:216:SER:HA	1.80	0.82
16:CS:4:ILE:CD1	16:CS:64:ALA:HB1	2.08	0.82
24:DA:2311:A:H2'	24:DA:2312:U:C6	2.14	0.82
33:DN:14:THR:HG21	33:DN:86:ILE:HB	1.62	0.82
8:AK:5:PRO:O	8:AK:8:ASP:HB3	1.78	0.82
24:BA:1328:G:H2'	24:BA:1330:C:C5	2.15	0.82
24:BA:1428:C:N4	24:BA:1570:A:OP2	2.11	0.82
28:BF:192:LEU:HD23	28:BF:193:VAL:N	1.94	0.82
29:BG:53:LEU:O	29:BG:53:LEU:HD23	1.78	0.82
1:CA:963:G:H21	10:CM:55:LYS:HD3	1.44	0.82
11:CN:124:LYS:HD2	11:CN:125:PHE:HE1	1.45	0.82
37:DQ:88:ASP:O	37:DQ:89:ARG:HB3	1.78	0.82
40:D2:89:GLN:HA	40:D2:89:GLN:HE21	1.44	0.82
44:DV:94:GLU:HB2	44:DV:130:PRO:HD3	1.61	0.82
1:AA:1301:U:O2	1:AA:1301:U:H2'	1.80	0.81
18:AU:53:ARG:HH21	18:AU:59:SER:HA	1.44	0.81
24:BA:265:A:O2'	24:BA:266:G:C4'	2.27	0.81
30:BH:132:ARG:O	30:BH:133:VAL:HG23	1.78	0.81
40:B2:5:VAL:HG23	40:B2:37:VAL:HG11	1.62	0.81
24:DA:1022:G:O2'	24:DA:1023:U:OP2	1.97	0.81
24:DA:2468:G:H2'	24:DA:2476:A:C2	2.15	0.81
27:DE:24:THR:HG21	27:DE:188:VAL:HG11	1.59	0.81
29:DG:67:LYS:HE2	49:D4:6:HIS:CE1	2.14	0.81
37:DQ:19:LYS:O	37:DQ:20:ARG:HB3	1.80	0.81
24:BA:969:U:H2'	24:BA:970:C:C6	2.14	0.81
25:BB:81:G:O6	25:BB:96:G:C6	2.33	0.81
31:BK:47:LEU:HD12	31:BK:50:ARG:HE	1.44	0.81
49:B4:71:ARG:HH11	49:B4:71:ARG:HB3	1.44	0.81
1:CA:1205:U:H1'	3:CF:195:VAL:CG2	2.10	0.81
4:CG:108:LEU:HD11	4:CG:174:LEU:HD22	1.60	0.81
24:DA:1138:G:H21	32:DM:106:MET:CE	1.93	0.81
24:DA:2419:U:H5'	51:D6:23:THR:HG22	1.62	0.81
47:DW:16:LEU:O	47:DW:16:LEU:HG	1.78	0.81
22:CB:23:G:O2'	22:CB:24:C:H5"	1.79	0.81
9:AL:1:MET:HB3	9:AL:20:ARG:HD3	1.61	0.81
10:AM:54:PHE:C	10:AM:55:LYS:HG3	2.06	0.81
13:AP:40:ASN:ND2	13:AP:43:THR:HG23	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:73:GLU:HG3	49:B4:52:THR:HG21	1.62	0.81
19:AV:6:LYS:HZ2	19:AV:6:LYS:H	1.28	0.81
24:BA:2392:A:H2	24:BA:2424:C:N4	1.77	0.81
24:BA:2485:G:H5"	35:BP:46:GLN:HE21	1.45	0.81
25:BB:7:G:C3'	25:BB:8:U:H5"	2.10	0.81
31:BK:142:VAL:HG22	31:BK:143:SER:N	1.91	0.81
2:CE:122:PHE:HD1	2:CE:139:LYS:HZ1	1.29	0.81
10:CM:63:PHE:HD1	14:CQ:58:LYS:HA	1.43	0.81
24:DA:1454:U:O2'	24:DA:1455:G:N7	2.14	0.81
24:DA:1568:G:OP1	26:DD:63:ARG:NH1	2.12	0.81
30:DH:10:PRO:O	30:DH:11:VAL:HG13	1.80	0.81
40:D2:66:ARG:NH1	40:D2:88:ARG:HD3	1.94	0.81
51:D6:15:GLU:CD	51:D6:41:PRO:HB3	2.04	0.81
1:AA:1206:G:H1'	3:AF:193:TYR:O	1.80	0.81
20:AW:10:LEU:HD22	20:AW:11:SER:H	1.46	0.81
24:BA:27:G:H1'	24:BA:513:A:H62	1.45	0.81
32:BM:133:GLN:HG2	32:BM:135:PRO:HD3	1.59	0.81
35:BP:12:GLN:HG2	35:BP:73:PRO:HD2	1.63	0.81
44:BV:28:MET:O	44:BV:34:ASN:HA	1.80	0.81
1:CA:957:U:H2'	1:CA:959:A:OP2	1.80	0.81
1:CA:1176:A:H2'	1:CA:1177:G:H5'	1.63	0.81
1:CA:1319:A:H5'	1:CA:1320:C:OP1	1.80	0.81
10:CM:6:ILE:O	10:CM:6:ILE:HD12	1.81	0.81
24:DA:83:G:N2	24:DA:102:G:O2'	2.13	0.81
24:DA:1405:U:H2'	24:DA:1406:U:C6	2.14	0.81
35:DP:90:VAL:HG13	35:DP:91:GLU:N	1.95	0.81
21:AX:15:ARG:HB2	21:AX:15:ARG:NH1	1.94	0.81
22:AD:56:C:C2'	22:AD:57:A:H5"	2.10	0.81
24:BA:2394:C:OP1	34:BO:63:PRO:HD2	1.81	0.81
27:BE:58:ARG:NE	27:BE:58:ARG:HA	1.92	0.81
40:B2:22:VAL:HG22	40:B2:23:GLU:H	1.46	0.81
44:BV:103:ARG:H	44:BV:139:VAL:HG23	1.45	0.81
1:CA:812:C:O2'	1:CA:813:U:C6	2.32	0.81
22:CD:20:U:H3'	22:CD:21:A:H5"	1.62	0.81
29:DG:47:LYS:HD3	29:DG:81:LYS:HB2	1.63	0.81
3:AF:11:ARG:HH21	3:AF:180:ALA:CB	1.93	0.81
3:AF:21:ARG:HH11	3:AF:21:ARG:CB	1.92	0.81
24:BA:1925:C:N4	24:BA:1926:U:C2	2.49	0.81
40:B2:80:GLN:HE21	40:B2:80:GLN:CA	1.93	0.81
4:CG:30:LYS:C	4:CG:32:ALA:N	2.36	0.81
24:DA:871:U:H2'	24:DA:871:U:O2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2723:C:O3'	36:D0:1:MET:HE3	1.81	0.81
27:DE:116:VAL:HG21	27:DE:122:PHE:CD2	2.16	0.81
52:D7:48:LYS:HG2	52:D7:49:ARG:H	1.46	0.81
6:AI:69:GLU:O	6:AI:72:VAL:HG12	1.80	0.81
24:BA:1280:G:H2'	24:BA:1281:G:H5"	1.61	0.81
28:BF:28:ILE:HA	28:BF:112:MET:HE3	1.60	0.81
35:BP:77:LYS:HZ3	35:BP:82:ARG:HB2	1.18	0.81
36:B0:51:LEU:CD2	36:B0:66:VAL:HG13	2.10	0.81
24:DA:2810:A:O3'	27:DE:61:ARG:HG3	1.80	0.81
28:DF:155:LEU:HD13	28:DF:174:VAL:HG13	1.62	0.81
1:AA:728:A:H2'	1:AA:729:A:C8	2.15	0.81
1:AA:1374:A:O2'	7:AJ:28:ASN:HB3	1.79	0.81
2:AE:124:SER:OG	2:AE:125:PRO:HD2	1.81	0.81
13:AP:99:ARG:O	13:AP:101:GLN:HG3	1.80	0.81
24:BA:2795:G:H3'	24:BA:2797:U:C5'	2.11	0.81
25:BB:48:A:H4'	37:BQ:95:HIS:HD2	1.46	0.81
27:BE:201:THR:HG22	27:BE:202:LYS:H	1.45	0.81
24:DA:784:A:H5"	26:DD:227:ASN:HD21	1.45	0.81
27:DE:50:GLY:CA	27:DE:77:ILE:HA	2.10	0.81
32:DM:35:ARG:HG3	32:DM:37:LYS:HG3	1.63	0.81
32:DM:43:THR:HB	32:DM:46:VAL:HG12	1.63	0.81
1:AA:1372:U:OP1	9:AL:71:SER:HB3	1.81	0.81
9:AL:28:VAL:HG23	9:AL:62:TYR:CD1	2.15	0.81
12:AO:55:VAL:HG13	12:AO:68:ALA:O	1.80	0.81
21:AX:25:LYS:HG2	21:AX:26:LYS:HG2	1.62	0.81
24:BA:1405:U:H2'	24:BA:1406:U:C6	2.16	0.81
33:BN:35:VAL:HG11	33:BN:103:ALA:HB3	1.62	0.81
34:BO:112:LEU:H	34:BO:128:HIS:CD2	1.99	0.81
34:DO:138:LEU:C	34:DO:140:ALA:H	1.85	0.81
47:DW:43:GLN:O	47:DW:44:LEU:HG	1.81	0.81
1:AA:696:A:H2'	1:AA:697:U:C5'	2.09	0.81
24:BA:270(A):A:H5"	46:BZ:97:LEU:HD22	1.63	0.81
25:BB:2:C:H2'	25:BB:3:C:C6	2.15	0.81
26:BD:242:ARG:HD2	26:BD:242:ARG:N	1.94	0.81
40:B2:71:LEU:H	40:B2:86:GLY:HA3	1.45	0.81
3:CF:113:ALA:HB3	3:CF:114:PRO:HD3	1.62	0.81
24:DA:1043:C:C2'	24:DA:1044:G:H5"	2.09	0.81
24:DA:1057:A:N6	24:DA:1086:A:H2'	1.93	0.81
24:DA:2638:G:HO2'	24:DA:2639:A:H8	1.29	0.81
44:DV:137:ILE:HB	44:DV:156:LYS:HD2	1.62	0.81
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:454:A:H4'	24:BA:455:C:OP2	1.81	0.80
24:BA:2523:G:H8	24:BA:2523:G:H5'	1.45	0.80
24:BA:2805:G:H2'	24:BA:2807:G:H8	1.44	0.80
26:BD:263:ARG:HH11	26:BD:263:ARG:CB	1.94	0.80
32:BM:39:ARG:HH21	32:BM:41:ASP:HB2	1.45	0.80
1:CA:336:C:O2'	1:CA:337:C:H5'	1.81	0.80
1:CA:797:C:OP1	11:CN:124:LYS:HE2	1.82	0.80
1:CA:1124:G:H3'	1:CA:1145:C:H42	1.46	0.80
24:DA:532:A:N7	24:DA:2021:C:H2'	1.95	0.80
53:D8:59:LYS:NZ	53:D8:59:LYS:CB	2.39	0.80
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.16	0.80
1:AA:1152:A:H5"	10:AM:13:HIS:HD2	1.44	0.80
19:AV:42:PRO:O	19:AV:43:GLU:HB2	1.78	0.80
24:BA:2580:U:H4'	27:BE:130:GLY:HA3	1.63	0.80
30:BH:30:LYS:HB3	30:BH:136:ILE:HG21	1.63	0.80
43:BU:28:LYS:NZ	43:BU:29:GLU:H	1.79	0.80
22:CC:9:G:H5'	22:CC:10:G:OP2	1.80	0.80
24:DA:1496:A:H8	24:DA:1577:C:O2'	1.63	0.80
25:DB:8:U:H5'	25:DB:8:U:H6	1.46	0.80
38:DR:39:ARG:HG2	38:DR:40:THR:H	1.46	0.80
43:DU:6:HIS:O	43:DU:7:VAL:HG13	1.81	0.80
2:AE:8:LYS:HG3	2:AE:11:LEU:HD21	1.63	0.80
43:BU:43:ASN:CB	43:BU:64:GLU:HA	2.11	0.80
48:BX:6:VAL:HG13	48:BX:54:VAL:HG11	1.62	0.80
1:CA:690:G:N2	11:CN:55:LYS:NZ	2.30	0.80
1:CA:737:A:H2'	1:CA:738:C:H6	1.46	0.80
3:CF:52:LEU:HD23	3:CF:52:LEU:H	1.46	0.80
24:DA:242:G:H5"	53:D8:62:LEU:HD22	1.61	0.80
24:DA:531:C:H5"	24:DA:532:A:O4'	1.81	0.80
24:DA:2311:A:H3'	24:DA:2312:U:C5	2.16	0.80
2:AE:132:LYS:HD3	2:AE:135:GLN:NE2	1.96	0.80
9:AL:77:ILE:O	9:AL:81:ILE:HG12	1.81	0.80
24:BA:85:G:OP1	43:BU:30:VAL:HG21	1.81	0.80
24:BA:1209:G:H21	24:BA:1210:A:H62	1.28	0.80
24:BA:1614:A:H62	41:BS:93:ALA:HB2	1.47	0.80
29:BG:51:ARG:O	29:BG:54:GLU:HB3	1.81	0.80
30:BH:9:ILE:CB	30:BH:10:PRO:HA	2.10	0.80
31:BK:143:SER:O	31:BK:144:VAL:HG23	1.82	0.80
36:B0:24:GLN:HE22	36:B0:36:THR:HG21	1.45	0.80
37:BQ:30:ARG:HH11	37:BQ:30:ARG:HG2	1.46	0.80
42:BT:50:LYS:H	42:BT:87:GLN:NE2	1.78	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:47:LEU:HD11	3:CF:76:VAL:HG12	1.62	0.80
24:DA:1165:U:H2'	24:DA:1166:C:H6	1.46	0.80
24:DA:2439:A:H5'	24:DA:2439:A:H8	1.45	0.80
26:DD:186:HIS:HD2	26:DD:188:GLU:H	1.29	0.80
37:DQ:36:TYR:HD2	37:DQ:52:SER:HB3	1.46	0.80
43:DU:76:CYS:HB3	43:DU:96:ILE:CD1	2.07	0.80
1:AA:1182:G:C5'	1:AA:1183:A:H5'	2.11	0.80
2:AE:29:ALA:C	2:AE:31:TYR:N	2.38	0.80
15:AR:82:ILE:HD13	15:AR:82:ILE:O	1.82	0.80
18:AU:19:LYS:HD3	18:AU:19:LYS:H	1.46	0.80
19:AV:7:LYS:HE3	19:AV:8:GLY:H	1.45	0.80
24:BA:171:G:H2'	24:BA:172:C:C6	2.17	0.80
24:BA:322:A:H5"	28:BF:169:ASN:ND2	1.95	0.80
24:BA:2245:U:H5'	24:BA:2246:G:H5'	1.63	0.80
24:BA:2681:C:O2	24:BA:2681:C:H2'	1.82	0.80
26:BD:31:LYS:HG2	26:BD:34:VAL:HG12	1.63	0.80
29:BG:64:THR:HG23	29:BG:66:GLN:H	1.47	0.80
30:BH:44:VAL:HG22	30:BH:51:ARG:HH11	1.47	0.80
2:CE:21:ARG:HG3	2:CE:38:GLY:C	2.05	0.80
3:CF:20:SER:HB2	3:CF:40:ARG:NH2	1.95	0.80
26:DD:27:THR:HG23	26:DD:28:GLU:N	1.96	0.80
2:AE:129:GLU:HB3	2:AE:130:ARG:NH1	1.97	0.80
23:A1:8:A:H3'	23:A1:9:G:C5'	2.08	0.80
24:BA:330:A:C2	24:BA:1210:A:H2'	2.15	0.80
25:BB:38:C:O2	25:BB:48:A:H1'	1.81	0.80
32:BM:42:TRP:HA	32:BM:48:MET:HE1	1.63	0.80
34:BO:101:VAL:HG21	34:BO:108:LYS:H	1.47	0.80
46:BZ:75:GLU:O	46:BZ:76:ARG:HD3	1.80	0.80
53:B8:32:LEU:HB2	53:B8:36:LYS:NZ	1.96	0.80
1:CA:1318:A:H4'	19:CV:11:VAL:HG11	1.61	0.80
2:CE:196:LEU:CD1	2:CE:197:VAL:HG23	2.10	0.80
5:CH:50:GLU:HB3	5:CH:53:LEU:HD13	1.61	0.80
24:DA:1454:U:H4'	24:DA:1455:G:OP1	1.81	0.80
24:DA:1475:G:H5'	24:DA:1475:G:C8	2.15	0.80
27:DE:35:GLN:HG2	27:DE:37:ARG:HE	1.44	0.80
49:D4:33:VAL:HG12	49:D4:34:GLU:H	1.44	0.80
1:AA:351:G:H4'	1:AA:352:C:OP1	1.81	0.80
2:AE:17:PHE:HB3	2:AE:42:ILE:HG23	1.62	0.80
24:BA:1188:U:C2'	24:BA:1189:A:H5'	2.11	0.80
27:BE:95:ILE:HD12	27:BE:95:ILE:N	1.97	0.80
29:BG:43:LEU:HD22	29:BG:90:LEU:HD23	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:34:LEU:HD11	35:BP:129:THR:HB	1.63	0.80
1:CA:659:U:H2'	1:CA:660:G:H8	1.46	0.80
8:CK:84:ARG:HG3	8:CK:84:ARG:HH11	1.45	0.80
22:CD:50:U:H2'	22:CD:51:C:C6	2.17	0.80
24:DA:1354:A:OP1	26:DD:38:LYS:HE2	1.82	0.80
33:DN:31:LYS:HG3	33:DN:32:TYR:CE2	2.17	0.80
35:DP:80:GLU:O	35:DP:81:VAL:CG1	2.30	0.80
53:D8:52:LYS:N	53:D8:53:PRO:CD	2.43	0.80
6:AI:23:LYS:O	6:AI:27:GLN:HG3	1.81	0.80
22:AD:58:A:O2'	22:AD:59:A:H3'	1.81	0.80
24:BA:1464:C:HO2'	24:BA:1528:A:H8	0.81	0.80
25:BB:113:C:H4'	37:BQ:46:VAL:HG13	1.61	0.80
31:BK:88:ILE:HG22	31:BK:90:GLY:H	1.45	0.80
5:CH:126:ARG:HG3	5:CH:126:ARG:HH11	1.47	0.80
24:DA:1093:G:H4'	30:DH:170:ARG:NH2	1.96	0.80
24:DA:2712:U:OP1	24:DA:2714:G:H4'	1.81	0.80
26:DD:121:PRO:HB3	26:DD:135:PHE:HE1	1.46	0.80
28:DF:198:ALA:HA	28:DF:201:VAL:HG12	1.62	0.80
29:DG:61:ALA:HB2	29:DG:68:PRO:CD	2.12	0.80
50:D5:4:HIS:HB3	50:D5:5:PRO:CD	2.11	0.80
10:AM:27:ALA:HB2	10:AM:85:LEU:HD11	1.62	0.80
24:BA:890:A:H3'	24:BA:892:G:C8	2.16	0.80
24:BA:2378:A:H4'	37:BQ:23:ARG:NH1	1.96	0.80
30:BH:126:PRO:HB2	30:BH:127:GLU:C	2.07	0.80
31:BK:47:LEU:HA	31:BK:50:ARG:HE	1.46	0.80
33:BN:10:VAL:HG21	33:BN:16:ALA:O	1.82	0.80
35:BP:134:ARG:HH21	44:BV:122:ARG:HH12	1.28	0.80
43:BU:95:LYS:HB2	43:BU:95:LYS:NZ	1.97	0.80
1:CA:1003:G:C2'	1:CA:1004:A:H5'	2.12	0.80
1:CA:1542:G:O5'	18:CU:19:LYS:HD3	1.82	0.80
4:CG:28:SER:HB3	4:CG:29:PRO:CD	2.12	0.80
24:DA:2290:G:H5'	24:DA:2290:G:H8	1.47	0.80
24:DA:2296:U:H4'	24:DA:2297:C:OP1	1.80	0.80
24:DA:2656:U:O4	24:DA:2657:A:N7	2.14	0.80
27:DE:3:GLY:O	27:DE:4:ILE:HB	1.81	0.80
2:AE:29:ALA:O	2:AE:32:ILE:HG22	1.82	0.80
9:AL:20:ARG:HH11	9:AL:20:ARG:HG2	1.47	0.80
22:AD:22:G:H2'	22:AD:23:C:C6	2.16	0.80
24:BA:518:G:H4'	41:BS:18:ARG:HH11	1.46	0.80
7:CJ:111:ARG:HH11	7:CJ:111:ARG:HB3	1.46	0.80
16:CS:4:ILE:HG13	16:CS:21:VAL:HG12	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CS:51:VAL:HG12	16:CS:52:ASP:H	1.46	0.80
24:DA:1084:A:H5'	24:DA:1085:A:OP2	1.80	0.80
24:DA:1378:A:H4'	24:DA:1379:A:OP1	1.82	0.80
26:DD:34:VAL:O	26:DD:34:VAL:HG13	1.81	0.80
26:DD:68:LYS:HB2	26:DD:70:TRP:CH2	2.17	0.80
27:DE:201:THR:CG2	27:DE:203:LYS:HB3	2.12	0.80
31:DK:40:THR:O	31:DK:44:LEU:HB2	1.81	0.80
37:DQ:106:ARG:CA	37:DQ:110:LEU:HD21	2.10	0.80
3:AF:62:ASP:HA	3:AF:97:LYS:HD2	1.64	0.79
4:AG:26:CYS:HA	4:AG:31:CYS:CB	2.12	0.79
25:BB:8:U:H5'	25:BB:8:U:H6	1.47	0.79
43:BU:61:ILE:HG22	43:BU:62:GLU:N	1.97	0.79
1:CA:243:A:H4'	1:CA:244:U:C5'	2.11	0.79
1:CA:251:G:H4'	1:CA:252:U:O5'	1.81	0.79
8:CK:100:ILE:HB	8:CK:125:ARG:HH12	1.47	0.79
9:CL:19:LEU:HD23	9:CL:61:ALA:HB2	1.63	0.79
13:CP:4:ILE:H	13:CP:9:ILE:HG21	1.47	0.79
24:DA:84:A:N6	24:DA:102:G:H1'	1.97	0.79
24:DA:1045:A:H4'	24:DA:1046:A:H5'	1.63	0.79
44:DV:158:PRO:HB3	44:DV:159:PRO:HD2	1.63	0.79
18:AU:22:VAL:C	18:AU:24:ALA:H	1.87	0.79
18:AU:85:LEU:HD12	18:AU:85:LEU:O	1.82	0.79
27:BE:199:ARG:HB2	27:BE:199:ARG:NH1	1.96	0.79
28:BF:18:ARG:HG2	28:BF:19:GLU:N	1.92	0.79
47:BW:17:SER:HA	47:BW:20:GLU:HG3	1.64	0.79
51:B6:40:CYS:N	51:B6:41:PRO:HD2	1.96	0.79
2:CE:187:LEU:HA	2:CE:201:ILE:HB	1.65	0.79
20:CW:50:GLU:HG3	20:CW:51:GLU:N	1.97	0.79
24:DA:484:C:H2'	24:DA:485:C:C6	2.17	0.79
24:DA:1181:C:H5'	24:DA:1181:C:H6	1.45	0.79
24:DA:1962:C:H4'	24:DA:1963:U:OP1	1.82	0.79
24:DA:2287:A:N6	24:DA:2344:U:H3	1.79	0.79
27:DE:52:LEU:HB2	27:DE:75:VAL:HG23	1.62	0.79
1:AA:689:C:H2'	1:AA:690:G:H5'	1.62	0.79
1:AA:993:G:H5'	1:AA:994:A:OP2	1.83	0.79
6:AI:98:LEU:HA	18:AU:30:ASP:HA	1.65	0.79
24:BA:141:A:C8	24:BA:1408:C:H1'	2.16	0.79
24:BA:1212:G:H1'	24:BA:1237:A:N6	1.98	0.79
26:BD:35:LYS:HZ1	26:BD:65:ILE:HA	1.47	0.79
28:BF:154:VAL:HB	28:BF:173:VAL:HG22	1.64	0.79
32:BM:131:GLN:HE21	32:BM:132:ALA:H	1.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:12:ILE:HG13	41:BS:42:ARG:HH12	1.48	0.79
1:CA:795:C:H1'	1:CA:1506:U:C6	2.17	0.79
12:CO:48:PRO:HD2	12:CO:49:ASN:N	1.97	0.79
24:DA:270(P):C:H2'	24:DA:270(Q):C:C6	2.17	0.79
24:DA:1359:A:C8	24:DA:1359:A:H5'	2.17	0.79
29:DG:77:ILE:HD13	29:DG:82:LEU:HD12	1.64	0.79
30:DH:152:ARG:O	30:DH:153:LYS:HB2	1.80	0.79
40:D2:99:ILE:HD13	40:D2:99:ILE:N	1.95	0.79
1:AA:329:A:H4'	1:AA:330:C:OP1	1.81	0.79
1:AA:1363:A:C4'	1:AA:1364:U:H5"	2.13	0.79
2:AE:178:ARG:HH12	8:AK:68:ARG:NH2	1.81	0.79
7:AJ:148:ASN:C	7:AJ:150:ALA:H	1.89	0.79
24:BA:2134:A:H62	24:BA:2157:G:H1'	1.45	0.79
30:BH:44:VAL:HG22	30:BH:51:ARG:NH1	1.97	0.79
1:CA:890:G:O2'	1:CA:891:U:OP2	1.99	0.79
1:CA:890:G:HO2'	1:CA:906:G:H1	1.30	0.79
2:CE:18:GLY:H	2:CE:42:ILE:CG2	1.95	0.79
5:CH:10:MET:HB3	5:CH:32:VAL:HG22	1.63	0.79
11:CN:32:ILE:CD1	11:CN:72:ALA:HB2	2.12	0.79
24:DA:64:A:C4	42:DT:66:LEU:HD13	2.18	0.79
30:DH:169:VAL:HG22	30:DH:170:ARG:H	1.48	0.79
38:DR:62:THR:CG2	38:DR:75:ILE:HG12	2.11	0.79
44:DV:154:ASP:CG	44:DV:155:LEU:H	1.91	0.79
2:AE:98:LEU:HB2	2:AE:101:MET:HE3	1.61	0.79
11:AN:33:THR:HG22	11:AN:39:PRO:HA	1.63	0.79
24:BA:443:A:H5"	24:BA:444:C:OP1	1.83	0.79
24:BA:796:C:H2'	24:BA:797:C:C6	2.18	0.79
24:BA:1485:G:O2'	24:BA:1486:A:H5'	1.82	0.79
34:BO:97:PRO:O	34:BO:98:GLU:HG3	1.83	0.79
38:BR:3:ARG:O	38:BR:7:ILE:HG12	1.81	0.79
1:CA:250:A:H4'	1:CA:251:G:O5'	1.82	0.79
12:CO:6:THR:N	12:CO:9:GLN:HE21	1.80	0.79
19:CV:5:LEU:HD11	49:D4:66:SER:HB2	1.62	0.79
24:DA:483:A:H5"	43:DU:49:VAL:HG13	1.64	0.79
24:DA:627:A:O2'	24:DA:628:G:C8	2.35	0.79
30:DH:150:ALA:C	30:DH:152:ARG:H	1.88	0.79
34:DO:14:LYS:O	34:DO:16:ARG:HG2	1.83	0.79
35:DP:81:VAL:O	35:DP:82:ARG:CG	2.31	0.79
1:AA:251:G:H4'	1:AA:252:U:O5'	1.82	0.79
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.17	0.79
3:AF:66:VAL:HG13	3:AF:101:LEU:HA	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AU:22:VAL:HG22	18:AU:23:LYS:H	1.47	0.79
24:BA:71:A:H4'	24:BA:72:U:O5'	1.82	0.79
24:BA:99:U:O2	24:BA:99:U:H2'	1.81	0.79
24:BA:671:C:O2'	24:BA:672:C:H5'	1.82	0.79
29:BG:17:PRO:HA	29:BG:20:ILE:CG1	2.12	0.79
1:CA:827:U:H5'	1:CA:828:A:OP2	1.83	0.79
2:CE:35:GLU:O	2:CE:36:ARG:HD3	1.82	0.79
4:CG:165:MET:HA	4:CG:165:MET:HE3	1.65	0.79
20:CW:100:ILE:HG13	20:CW:102:GLY:H	1.48	0.79
24:DA:1341:U:H2'	24:DA:1397:U:O2'	1.82	0.79
24:DA:1729:A:H2'	24:DA:1730:U:H5"	1.64	0.79
30:DH:126:PRO:CG	30:DH:127:GLU:H	1.95	0.79
39:D1:105:VAL:HG22	40:D2:44:LYS:HD2	1.65	0.79
2:AE:69:LEU:HD23	2:AE:91:PRO:HB2	1.64	0.79
31:BK:131:LYS:HB3	31:BK:132:PRO:HA	1.65	0.79
35:BP:134:ARG:HH21	44:BV:122:ARG:NH1	1.81	0.79
39:B1:50:ARG:HH12	40:B2:72:VAL:HG11	1.42	0.79
53:B8:32:LEU:HD23	53:B8:34:TRP:N	1.97	0.79
1:CA:134:A:H61	16:CS:25:ARG:NH1	1.79	0.79
1:CA:677:U:H2'	1:CA:678:U:C6	2.17	0.79
1:CA:1316:G:N2	1:CA:1318:A:H3'	1.97	0.79
7:CJ:89:MET:HE1	7:CJ:156:TRP:H	1.47	0.79
8:CK:20:TYR:HA	8:CK:65:TYR:CE2	2.18	0.79
9:CL:15:ALA:HB2	9:CL:65:VAL:HG23	1.65	0.79
24:DA:302:C:H2'	24:DA:303:U:C6	2.18	0.79
24:DA:2790:A:H2'	24:DA:2791:C:C5'	2.11	0.79
38:DR:102:ILE:HA	38:DR:105:LEU:CD2	2.13	0.79
48:DX:56:VAL:HG12	48:DX:57:GLU:H	1.48	0.79
1:AA:980:C:H5'	1:AA:981:U:OP2	1.83	0.79
4:AG:22:LYS:HG3	4:AG:26:CYS:HB2	1.65	0.79
7:AJ:3:ARG:C	7:AJ:5:ARG:H	1.89	0.79
9:AL:53:VAL:HG11	9:AL:85:LEU:HD22	1.64	0.79
11:AN:13:GLN:HG3	11:AN:76:GLY:C	2.08	0.79
22:AD:7:G:H4'	22:AD:8:U:OP1	1.81	0.79
24:BA:2287:A:N6	24:BA:2344:U:N3	2.30	0.79
34:BO:65:ARG:HG3	34:BO:65:ARG:HH11	1.46	0.79
43:BU:13:VAL:HG23	43:BU:73:ARG:O	1.83	0.79
43:BU:75:ILE:CG1	43:BU:80:GLY:H	1.96	0.79
1:CA:1205:U:H1'	3:CF:195:VAL:HG23	1.63	0.79
24:DA:860:U:H5	24:DA:917:A:C2	2.01	0.79
24:DA:1111:A:O2'	24:DA:1112:G:H4'	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:153:LYS:CG	30:DH:162:ILE:H	1.96	0.79
31:DK:93:THR:HG22	31:DK:119:PRO:HB3	1.65	0.79
34:DO:65:ARG:HG3	34:DO:65:ARG:NH1	1.90	0.79
44:DV:30:ASN:O	44:DV:32:HIS:N	2.16	0.79
46:DZ:11:ARG:HB3	46:DZ:11:ARG:NH1	1.98	0.79
2:AE:178:ARG:NH1	8:AK:68:ARG:HH22	1.81	0.79
3:AF:84:ILE:O	3:AF:88:ARG:HG2	1.82	0.79
12:AO:55:VAL:HG12	12:AO:56:ALA:N	1.98	0.79
19:AV:36:ARG:NH1	19:AV:73:GLU:HB2	1.98	0.79
19:AV:48:THR:C	19:AV:49:ILE:HD12	2.08	0.79
24:BA:1111:A:O2'	24:BA:1112:G:H4'	1.83	0.79
24:BA:1534:G:N2	24:BA:1538:G:C6	2.51	0.79
24:BA:2061:G:H5"	24:BA:2503:A:C2	2.18	0.79
26:BD:255:LYS:HE3	26:BD:255:LYS:N	1.97	0.79
33:BN:68:GLU:HB3	33:BN:78:ARG:HB2	1.62	0.79
49:B4:16:CYS:HB3	49:B4:19:GLY:N	1.98	0.79
14:CQ:39:LEU:HB3	14:CQ:43:CYS:HB2	1.63	0.79
18:CU:43:PHE:HE2	18:CU:58:LEU:HD11	1.47	0.79
19:CV:41:VAL:HG12	19:CV:44:MET:N	1.98	0.79
24:DA:503:A:O2'	24:DA:504:U:OP2	2.01	0.79
26:DD:17:THR:CG2	26:DD:205:VAL:H	1.96	0.79
30:DH:26:VAL:HG13	30:DH:27:LYS:N	1.96	0.79
31:DK:11:ASN:O	31:DK:12:LEU:HB2	1.83	0.79
33:DN:53:LYS:HD2	33:DN:53:LYS:N	1.96	0.79
1:AA:134:A:H61	16:AS:25:ARG:NH1	1.81	0.79
8:AK:6:ILE:HD12	8:AK:6:ILE:H	1.48	0.79
24:BA:1799:G:H4'	24:BA:1800:C:O5'	1.81	0.79
24:BA:2126:A:H4'	24:BA:2127:G:O5'	1.83	0.79
44:BV:27:VAL:HG23	44:BV:36:LYS:HA	1.64	0.79
4:CG:28:SER:HB3	4:CG:29:PRO:HD2	1.65	0.79
1:AA:64:G:H4'	1:AA:65:U:C5'	2.11	0.78
1:AA:267:C:OP1	17:AT:67:LYS:HB2	1.83	0.78
1:AA:1234:C:H4'	1:AA:1364:U:O2'	1.83	0.78
2:AE:55:PHE:HD1	2:AE:221:LEU:HD21	1.47	0.78
4:AG:21:LEU:CD1	4:AG:22:LYS:H	1.97	0.78
19:AV:16:LEU:HA	19:AV:19:VAL:HB	1.64	0.78
24:BA:586:A:H5'	28:BF:89:VAL:HG21	1.64	0.78
24:BA:1069:A:H4'	24:BA:1070:A:H5"	1.65	0.78
25:BB:81:G:N7	25:BB:96:G:C2	2.50	0.78
26:BD:43:ARG:O	26:BD:43:ARG:HD3	1.82	0.78
27:BE:70:ALA:O	27:BE:72:VAL:N	2.15	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:38:LEU:H	31:BK:38:LEU:HD12	1.47	0.78
36:B0:2:ARG:HH11	36:B0:2:ARG:HG2	1.47	0.78
40:B2:35:LEU:O	40:B2:37:VAL:HG22	1.82	0.78
52:B7:8:ASN:C	52:B7:8:ASN:HD22	1.89	0.78
1:CA:1538:C:H3'	1:CA:1539:C:H5"	1.64	0.78
3:CF:138:VAL:HG13	3:CF:149:ALA:HB1	1.64	0.78
12:CO:86:ARG:HB2	12:CO:101:VAL:HG22	1.62	0.78
24:DA:389:G:H22	34:DO:72:PRO:CG	1.97	0.78
24:DA:1279:G:H4'	36:D0:31:HIS:HD2	1.46	0.78
24:DA:2392:A:H2	24:DA:2424:C:H42	1.28	0.78
30:DH:150:ALA:O	30:DH:152:ARG:N	2.14	0.78
33:DN:97:ARG:H	33:DN:117:LEU:HD22	1.48	0.78
39:D1:90:VAL:HG12	39:D1:91:ASP:N	1.98	0.78
1:AA:134:A:N6	16:AS:25:ARG:HH12	1.80	0.78
1:AA:406:G:H5"	4:AG:5:ILE:HG23	1.63	0.78
1:AA:1364:U:H2'	1:AA:1364:U:O2	1.83	0.78
3:AF:71:ALA:HB1	3:AF:109:PRO:HG3	1.64	0.78
12:AO:44:THR:HB	12:AO:45:PRO:HD2	1.65	0.78
21:AX:9:ARG:HH21	21:AX:10:ARG:HH21	1.28	0.78
24:BA:1251:C:H4'	24:BA:1252:G:OP1	1.83	0.78
24:BA:1885:A:H3'	24:BA:1886:C:H6	1.49	0.78
41:BS:66:GLU:HA	41:BS:69:LEU:HG	1.65	0.78
44:BV:155:LEU:O	44:BV:156:LYS:HG2	1.83	0.78
49:B4:20:ASN:O	49:B4:21:VAL:HG13	1.82	0.78
1:CA:1037:C:H2'	1:CA:1038:C:H6	1.47	0.78
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.19	0.78
9:CL:83:ARG:O	9:CL:86:VAL:HG12	1.84	0.78
18:CU:56:THR:HB	18:CU:58:LEU:CD1	2.13	0.78
24:DA:643:A:O2'	24:DA:644:A:H5'	1.83	0.78
24:DA:774:A:H2	24:DA:787:U:HO2'	1.27	0.78
24:DA:2790:A:C2'	24:DA:2791:C:H5"	2.13	0.78
25:DB:20:C:C2'	25:DB:21:G:H5"	2.11	0.78
31:DK:2:LYS:CA	31:DK:20:ASP:HB3	2.13	0.78
43:DU:86:ARG:HB2	43:DU:95:LYS:HD2	1.64	0.78
1:AA:201:C:H3'	1:AA:209:U:C5	2.19	0.78
1:AA:411:A:N7	1:AA:413:G:N3	2.31	0.78
1:AA:792:A:C1'	1:AA:794:A:H62	1.95	0.78
1:AA:1399:C:H4'	1:AA:1400:C:O5'	1.82	0.78
2:AE:156:LYS:HE3	2:AE:156:LYS:HA	1.65	0.78
13:AP:96:LEU:HB3	13:AP:97:PRO:HD2	1.65	0.78
20:AW:74:LYS:C	20:AW:76:ALA:H	1.89	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:34:LEU:HD11	32:BM:120:LEU:HB2	1.64	0.78
34:BO:107:LYS:O	34:BO:109:GLY:N	2.16	0.78
40:B2:49:THR:HB	40:B2:50:PRO:CD	2.12	0.78
24:DA:702:G:H8	24:DA:702:G:H5'	1.49	0.78
25:DB:15:A:H5'	25:DB:16:G:C8	2.18	0.78
26:DD:27:THR:HG21	26:DD:83:GLU:HB3	1.63	0.78
40:D2:47:VAL:HG13	40:D2:48:GLY:H	1.49	0.78
49:D4:58:ARG:O	49:D4:63:TYR:HB2	1.84	0.78
1:AA:250:A:H1'	1:AA:252:U:C5	2.19	0.78
1:AA:531:U:H5'	1:AA:532:A:OP1	1.84	0.78
12:AO:22:SER:C	12:AO:24:VAL:H	1.91	0.78
35:BP:81:VAL:HG12	35:BP:82:ARG:NH1	1.97	0.78
24:DA:2189:U:C2'	24:DA:2190:G:H5"	2.13	0.78
37:BQ:15:ARG:NH1	37:BQ:25:ARG:HE	1.81	0.78
37:BQ:26:LEU:HB3	37:BQ:87:PHE:HA	1.64	0.78
40:B2:28:GLU:O	40:B2:61:VAL:HG21	1.84	0.78
46:BZ:4:VAL:HG11	46:BZ:11:ARG:NH1	1.99	0.78
1:CA:812:C:O2'	1:CA:813:U:H6	1.66	0.78
1:CA:1314:C:OP1	19:CV:6:LYS:HE3	1.84	0.78
10:CM:16:LEU:HD23	10:CM:94:VAL:HG13	1.66	0.78
13:CP:3:ARG:CA	13:CP:9:ILE:HG21	2.13	0.78
24:DA:270(P):C:H2'	24:DA:270(Q):C:H6	1.48	0.78
24:DA:1781:C:O2'	24:DA:1782:C:OP2	1.99	0.78
26:DD:54:ARG:NH1	26:DD:54:ARG:HG3	1.98	0.78
34:DO:47:ASP:OD2	34:DO:49:ARG:HG2	1.82	0.78
42:DT:70:LEU:HD23	42:DT:70:LEU:N	1.99	0.78
1:AA:50:A:O2'	1:AA:52:G:C8	2.36	0.78
1:AA:1022:G:H2'	1:AA:1023:G:C8	2.19	0.78
24:BA:360:G:H2'	24:BA:361:G:C8	2.19	0.78
24:BA:620:G:H4'	24:BA:621:A:H5"	1.64	0.78
24:BA:958:U:O2	25:BB:89(A):A:H4'	1.84	0.78
30:BH:126:PRO:CB	30:BH:127:GLU:C	2.57	0.78
33:BN:23:ARG:HH11	33:BN:23:ARG:HG2	1.49	0.78
51:B6:33:LYS:HD2	51:B6:34:LEU:HD23	1.64	0.78
1:CA:1190:G:OP1	3:CF:5:ILE:HD12	1.83	0.78
24:DA:803:U:H5'	24:DA:803:U:C6	2.19	0.78
24:DA:1138:G:N2	32:DM:106:MET:HE3	1.96	0.78
29:DG:128:ARG:HH21	29:DG:128:ARG:HG3	1.49	0.78
44:DV:28:MET:O	44:DV:34:ASN:HA	1.84	0.78
1:AA:794:A:H2'	1:AA:795:C:C6	2.19	0.78
1:AA:1031:G:H21	1:AA:1032:A:C1'	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AI:98:LEU:HD12	6:AI:101:ALA:HB2	1.64	0.78
10:AM:99:LYS:HD3	10:AM:100:THR:H	1.47	0.78
24:BA:389:G:H22	34:BO:72:PRO:HD3	1.48	0.78
24:BA:1757:U:H3	24:BA:1762:A:H2	1.31	0.78
24:BA:2467:C:H2'	24:BA:2468:G:O4'	1.83	0.78
34:BO:50:ARG:HH11	34:BO:50:ARG:HG2	1.49	0.78
44:BV:74:VAL:HG13	44:BV:86:VAL:HG22	1.63	0.78
44:BV:155:LEU:O	44:BV:157:LEU:HD13	1.83	0.78
1:CA:17:U:H2'	1:CA:18:C:C6	2.18	0.78
1:CA:452:A:H4'	16:CS:72:ARG:NH2	1.98	0.78
13:CP:88:ARG:HH11	13:CP:88:ARG:CB	1.96	0.78
24:DA:2208:U:O2'	26:DD:151:LYS:HG2	1.83	0.78
28:DF:145:GLU:O	28:DF:145:GLU:HG3	1.81	0.78
44:DV:130:PRO:HA	44:DV:133:ILE:HD11	1.65	0.78
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.18	0.78
1:AA:1442:G:O6	1:AA:1446:A:N6	2.15	0.78
41:BS:54:ALA:HB1	41:BS:107:LEU:CD2	2.14	0.78
45:B3:51:VAL:HG21	45:B3:79:VAL:O	1.84	0.78
50:B5:3:LYS:HG3	50:B5:4:HIS:H	1.48	0.78
51:B6:40:CYS:H	51:B6:41:PRO:CD	1.96	0.78
1:CA:73:G:H21	1:CA:74:C:H41	1.30	0.78
24:DA:674:G:C1'	28:DF:74:ARG:HD3	2.13	0.78
24:DA:1099:G:H5'	24:DA:1099:G:H8	1.46	0.78
26:DD:94:LEU:HD22	26:DD:95:LEU:N	1.98	0.78
24:BA:1171:G:O2'	24:BA:1173:G:O5'	2.01	0.78
24:BA:1332:G:N2	24:BA:1610:A:H8	1.81	0.78
24:BA:2315:G:H2'	24:BA:2316:C:C6	2.18	0.78
1:CA:523:A:N6	12:CO:92:ASP:HB2	1.99	0.78
22:CD:34:C:N4	23:C1:14:A:H61	1.81	0.78
24:DA:2835:A:H4'	24:DA:2836:U:OP1	1.82	0.78
27:DE:4:ILE:HD12	27:DE:28:ALA:HB1	1.66	0.78
27:DE:137:HIS:HB3	27:DE:138:PRO:HD2	1.65	0.78
29:DG:97:ASP:H	29:DG:100:TRP:HD1	1.31	0.78
1:AA:95:G:C2'	1:AA:96:G:H5'	2.14	0.78
3:AF:76:VAL:HG13	3:AF:84:ILE:HD11	1.66	0.78
24:BA:607:U:O4	24:BA:608:A:N7	2.17	0.78
24:BA:999:U:C2'	24:BA:1000:A:H5"	2.14	0.78
34:BO:47:ASP:HB3	34:BO:48:PRO:CA	2.14	0.78
43:BU:96:ILE:HG22	43:BU:97:ARG:H	1.49	0.78
1:CA:1053:G:C5'	1:CA:1054:C:H5'	2.14	0.78
24:DA:1359:A:C3'	24:DA:1359:A:H8	1.94	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DB:42:C:H4'	29:DG:67:LYS:HD3	1.65	0.78
26:DD:34:VAL:HG21	26:DD:103:ARG:HA	1.66	0.78
33:DN:47:ILE:HD12	33:DN:48:PRO:HD2	1.66	0.78
36:D0:74:LYS:O	36:D0:75:LEU:HB3	1.84	0.78
1:AA:792:A:O2'	1:AA:794:A:N7	2.18	0.77
1:AA:1007:C:H3'	1:AA:1008:C:H5"	1.67	0.77
2:AE:135:GLN:O	2:AE:139:LYS:HB2	1.84	0.77
12:AO:87:GLY:HA2	12:AO:98:TYR:HA	1.66	0.77
24:BA:592:G:N3	53:B8:4:MET:HE2	1.98	0.77
34:BO:64:LYS:HE3	53:B8:30:ARG:HH21	1.50	0.77
37:BQ:100:ALA:HA	37:BQ:103:GLU:HG2	1.64	0.77
46:BZ:81:LYS:HG2	46:BZ:81:LYS:O	1.84	0.77
6:CI:24:GLU:HA	6:CI:27:GLN:CG	2.14	0.77
27:DE:55:ASN:C	27:DE:57:LYS:H	1.91	0.77
39:D1:66:ASN:O	39:D1:70:ARG:HB2	1.84	0.77
1:AA:95:G:H2'	1:AA:96:G:H5'	1.64	0.77
1:AA:539:A:H2'	1:AA:540:G:C8	2.19	0.77
44:BV:103:ARG:HB3	44:BV:139:VAL:H	1.46	0.77
1:CA:328:C:HO2'	1:CA:329:A:P	2.07	0.77
13:CP:15:VAL:HG23	13:CP:43:THR:O	1.84	0.77
22:CD:56:C:H2'	22:CD:57:A:C8	2.19	0.77
24:DA:2159:G:H2'	24:DA:2160:G:H8	1.49	0.77
27:DE:24:THR:HG21	27:DE:188:VAL:CG1	2.13	0.77
9:AL:19:LEU:HB3	9:AL:59:PHE:HB3	1.65	0.77
22:AC:9:G:H5'	22:AC:10:G:OP2	1.84	0.77
24:BA:2327:A:H2'	24:BA:2328:A:C8	2.18	0.77
29:BG:55:LYS:HE3	29:BG:148:MET:HE2	1.66	0.77
29:BG:127:GLY:HA2	29:BG:166:ASP:HB3	1.66	0.77
30:BH:127:GLU:HG3	30:BH:128:PRO:HD2	1.67	0.77
1:CA:329:A:H4'	1:CA:330:C:OP1	1.82	0.77
1:CA:517:G:O2'	1:CA:530:G:H4'	1.85	0.77
2:CE:239:VAL:HG12	2:CE:240:GLN:NE2	1.99	0.77
24:DA:1847:A:H5'	24:DA:1848:A:OP2	1.84	0.77
24:DA:2308:G:H1	24:DA:2311:A:H2	1.28	0.77
30:DH:132:ARG:HB2	30:DH:132:ARG:NH1	1.95	0.77
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.18	0.77
9:AL:2:GLU:HG3	9:AL:3:GLN:H	1.48	0.77
11:AN:85:ARG:HG2	11:AN:111:ASP:O	1.84	0.77
19:AV:41:VAL:HG23	19:AV:41:VAL:O	1.85	0.77
24:BA:654(S):G:H2'	24:BA:654(T):A:C8	2.19	0.77
44:BV:95:PRO:O	44:BV:96:VAL:CG2	2.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1178:G:H5'	9:CL:93:ARG:HH21	1.50	0.77
24:DA:784:A:H5"	26:DD:227:ASN:ND2	1.98	0.77
32:DM:71:ILE:HG21	32:DM:84:LYS:HB3	1.65	0.77
2:AE:15:VAL:HG22	2:AE:210:SER:HB2	1.65	0.77
2:AE:55:PHE:HA	2:AE:58:ILE:HG12	1.65	0.77
9:AL:17:VAL:HG22	9:AL:63:ILE:HG12	1.67	0.77
13:AP:83:ASP:CG	13:AP:84:ILE:H	1.93	0.77
24:BA:2127:G:H3'	24:BA:2128:C:H5"	1.65	0.77
28:BF:34:TRP:HB2	34:BO:6:LEU:HD12	1.66	0.77
29:BG:56:ALA:HB2	29:BG:153:ARG:HE	1.49	0.77
35:BP:24:GLY:O	35:BP:102:VAL:HG22	1.85	0.77
46:BZ:90:ILE:O	46:BZ:90:ILE:HG23	1.85	0.77
47:BW:48:HIS:O	47:BW:52:ASP:HB2	1.84	0.77
47:BW:49:LYS:HD2	47:BW:49:LYS:H	1.46	0.77
1:CA:1199:U:H4'	10:CM:54:PHE:CZ	2.19	0.77
20:CW:89:ARG:HH21	20:CW:104:LEU:HD21	1.47	0.77
24:DA:1020:A:N1	24:DA:1141:U:H2'	2.00	0.77
24:DA:2134:A:H62	24:DA:2157:G:H1'	1.48	0.77
26:DD:25:THR:HG22	26:DD:82:ILE:H	1.46	0.77
28:DF:11:VAL:HB	28:DF:18:ARG:HG3	1.64	0.77
30:DH:152:ARG:HG3	30:DH:153:LYS:CE	2.14	0.77
34:DO:84:ASN:ND2	34:DO:116:GLY:HA3	1.99	0.77
34:DO:88:LEU:C	34:DO:90:ARG:H	1.92	0.77
1:AA:923:A:OP1	5:AH:21:ALA:HB2	1.83	0.77
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.20	0.77
9:AL:19:LEU:HD22	9:AL:59:PHE:HB2	1.66	0.77
24:BA:910:A:C5	35:BP:13:GLN:HG3	2.19	0.77
24:BA:2328:A:H2'	24:BA:2329:G:C8	2.19	0.77
31:BK:5:LEU:HD13	31:BK:17:GLN:O	1.84	0.77
34:BO:62:LEU:CD1	53:B8:25:MET:HB2	2.14	0.77
34:BO:63:PRO:HB3	53:B8:13:ARG:HG2	1.65	0.77
35:BP:38:GLU:HB2	35:BP:127:ILE:HG23	1.65	0.77
39:B1:92:ARG:HD2	39:B1:94:ASN:HB3	1.66	0.77
43:BU:13:VAL:HG21	43:BU:72:VAL:HB	1.66	0.77
1:CA:942:G:H21	9:CL:124:GLN:NE2	1.83	0.77
1:CA:1178:G:C5'	9:CL:93:ARG:HH21	1.97	0.77
7:CJ:113:GLU:HB2	7:CJ:119:ARG:HG2	1.65	0.77
43:DU:79:CYS:SG	43:DU:80:GLY:N	2.57	0.77
46:DZ:13:ILE:HD11	46:DZ:42:GLN:OE1	1.84	0.77
49:D4:22:ILE:O	49:D4:24:THR:HG23	1.84	0.77
2:AE:92:TYR:CE2	2:AE:151:GLY:HA3	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:71:ALA:CB	3:AF:109:PRO:HG3	2.15	0.77
7:AJ:79:ARG:CG	7:AJ:80:VAL:H	1.98	0.77
24:BA:779:U:OP1	26:BD:49:ILE:HG23	1.85	0.77
24:BA:887:A:H3'	24:BA:888:C:H5'	1.65	0.77
24:BA:1209:G:O3'	24:BA:1212:G:H5'	1.85	0.77
24:BA:1309:G:H3'	52:B7:9:ARG:HH12	1.47	0.77
24:BA:2283:C:H5'	51:B6:8:LYS:HE3	1.65	0.77
24:BA:2583:G:C6	24:BA:2584:U:C5	2.73	0.77
51:B6:47:THR:HG22	51:B6:48:VAL:H	1.48	0.77
1:CA:411:A:C5	1:CA:413:G:H1'	2.18	0.77
4:CG:76:ARG:HD2	4:CG:207:TYR:CE2	2.20	0.77
9:CL:53:VAL:HB	9:CL:95:LYS:HE3	1.67	0.77
16:CS:72:ARG:HD3	16:CS:72:ARG:C	2.10	0.77
24:DA:1280:G:H2'	24:DA:1281:G:C5'	2.13	0.77
28:DF:20:LEU:HD12	28:DF:21:ALA:H	1.49	0.77
53:D8:59:LYS:CB	53:D8:59:LYS:HZ3	1.96	0.77
1:AA:17:U:H2'	1:AA:18:C:C6	2.20	0.77
1:AA:328:C:O2	1:AA:328:C:H2'	1.83	0.77
1:AA:1351:U:H4'	7:AJ:33:ASP:OD2	1.85	0.77
9:AL:15:ALA:HB2	9:AL:65:VAL:HG23	1.65	0.77
22:AD:70:G:H2'	22:AD:71:C:C5'	2.11	0.77
24:BA:946:G:O2'	24:BA:947:G:H5'	1.85	0.77
24:BA:1084:A:H2'	24:BA:1085:A:C8	2.20	0.77
24:BA:1673:U:H2'	24:BA:1674:G:H5'	1.66	0.77
24:BA:1796:U:H2'	24:BA:1797:C:C6	2.20	0.77
30:BH:30:LYS:HB3	30:BH:136:ILE:CG2	2.14	0.77
11:CN:77:MET:HE3	11:CN:80:VAL:HG12	1.67	0.77
20:CW:13:LEU:HD12	20:CW:14:LYS:N	2.00	0.77
24:DA:27:G:N2	24:DA:512:G:H2'	2.00	0.77
26:DD:25:THR:O	26:DD:27:THR:N	2.17	0.77
31:DK:130:TYR:C	31:DK:131:LYS:HD2	2.10	0.77
34:DO:114:ILE:HD11	34:DO:130:PHE:CE1	2.19	0.77
41:DS:18:ARG:HG3	41:DS:76:VAL:CG1	2.15	0.77
41:DS:65:LEU:CD1	41:DS:68:ARG:HH11	1.97	0.77
44:DV:108:PRO:HG2	44:DV:112:ARG:H	1.49	0.77
48:DX:35:ARG:HB3	48:DX:37:LEU:HD21	1.66	0.77
22:AD:68:C:C3'	22:AD:69:C:H5"	2.15	0.77
25:BB:6:C:HO2'	37:BQ:29:PHE:HE1	1.30	0.77
27:BE:48:GLN:HG2	27:BE:78:LEU:HD12	1.66	0.77
28:BF:22:ALA:C	28:BF:24:LEU:H	1.93	0.77
32:BM:30:ILE:O	32:BM:34:LEU:HD23	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1014:A:H4'	19:CV:14:HIS:CD2	2.19	0.77
2:CE:4:GLU:HG2	2:CE:5:ILE:N	1.95	0.77
2:CE:84:GLU:HB3	2:CE:219:VAL:HG21	1.65	0.77
5:CH:11:ILE:CD1	5:CH:31:LEU:HD12	2.13	0.77
19:CV:39:THR:HG22	19:CV:40:ILE:H	1.50	0.77
24:DA:1162:G:H21	40:D2:89:GLN:HE22	1.32	0.77
26:DD:44:ASN:HD22	26:DD:44:ASN:N	1.79	0.77
26:DD:153:ALA:O	26:DD:154:LYS:HG3	1.85	0.77
28:DF:183:VAL:O	28:DF:187:VAL:HG23	1.85	0.77
35:DP:20:ALA:CB	35:DP:99:PRO:HD2	2.14	0.77
35:DP:79:LEU:HD22	35:DP:79:LEU:C	2.07	0.77
35:DP:119:ARG:HG2	35:DP:119:ARG:HH11	1.48	0.77
37:DQ:83:LYS:C	37:DQ:109:GLY:HA3	2.10	0.77
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.84	0.77
1:AA:1381:U:H1'	7:AJ:79:ARG:HH22	1.50	0.77
4:AG:112:VAL:HG12	4:AG:116:GLN:OE1	1.85	0.77
9:AL:16:ARG:C	9:AL:63:ILE:HG23	2.09	0.77
24:BA:2776:A:H4'	24:BA:2777:G:C5'	2.15	0.77
30:BH:9:ILE:HG23	30:BH:50:VAL:O	1.85	0.77
1:CA:328:C:H2'	1:CA:328:C:O2	1.84	0.77
24:DA:608:A:C2	24:DA:621:A:N7	2.53	0.77
24:DA:1992:G:O2'	24:DA:1993:U:OP2	2.02	0.77
34:DO:127:ALA:C	34:DO:147:LEU:HD23	2.10	0.77
37:DQ:60:GLY:O	37:DQ:61:ASN:HB3	1.84	0.77
47:DW:47:ASN:HD22	47:DW:47:ASN:H	1.33	0.77
49:D4:1:MET:HB2	49:D4:6:HIS:NE2	2.00	0.77
1:AA:723:U:H2'	1:AA:723:U:O2	1.85	0.76
1:AA:1017:G:H2'	1:AA:1018:C:H6	1.50	0.76
8:AK:84:ARG:HH11	8:AK:84:ARG:HG2	1.51	0.76
12:AO:82:VAL:HG12	12:AO:83:VAL:H	1.50	0.76
22:AD:5:G:H2'	22:AD:6:G:H5'	1.65	0.76
24:BA:1496:A:H2'	24:BA:1498:C:C5	2.19	0.76
43:BU:87:LYS:HB3	43:BU:92:ASN:HB3	1.65	0.76
44:BV:150:LEU:HG	44:BV:171:ILE:HG22	1.65	0.76
49:B4:10:VAL:CB	49:B4:11:PRO:HD2	2.09	0.76
7:CJ:79:ARG:HH22	7:CJ:82:GLY:HA2	1.51	0.76
24:DA:758:C:O2	24:DA:1981:A:H2	1.68	0.76
28:DF:32:LEU:C	28:DF:32:LEU:HD12	2.10	0.76
35:DP:20:ALA:HB1	35:DP:99:PRO:HB2	1.65	0.76
50:D5:40:LYS:CD	50:D5:46:CYS:HB3	2.15	0.76
53:D8:60:LEU:C	53:D8:63:PRO:HD2	2.10	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AI:82:ARG:HB2	6:AI:85:VAL:HG22	1.66	0.76
7:AJ:69:VAL:HG22	7:AJ:135:VAL:HG22	1.67	0.76
7:AJ:113:GLU:HB3	7:AJ:118:VAL:CG2	2.15	0.76
19:AV:61:TYR:C	19:AV:62:ILE:HD12	2.10	0.76
23:A1:8:A:C3'	23:A1:9:G:H5"	2.08	0.76
24:BA:1024:G:H3'	24:BA:1025:G:H5"	1.66	0.76
29:BG:76:SER:OG	29:BG:83:ARG:HA	1.85	0.76
29:BG:132:ASN:OD1	29:BG:158:ALA:HA	1.83	0.76
4:CG:11:LEU:C	4:CG:13:ARG:N	2.36	0.76
24:DA:1142(A):A:H4'	24:DA:1143:A:OP1	1.82	0.76
24:DA:1888:G:H5'	24:DA:1889:A:OP1	1.84	0.76
24:DA:2633:G:H1'	27:DE:62:PRO:HG2	1.67	0.76
31:DK:40:THR:HG22	31:DK:41:GLU:H	1.49	0.76
46:DZ:80:LEU:C	46:DZ:81:LYS:HE2	2.10	0.76
1:AA:92:G:C2'	1:AA:93:U:H5'	2.13	0.76
3:AF:16:ARG:N	3:AF:16:ARG:HH11	1.84	0.76
5:AH:100:VAL:HG13	5:AH:118:ILE:HG22	1.66	0.76
26:BD:35:LYS:HD3	26:BD:63:ARG:HG3	1.65	0.76
1:CA:923:A:H2'	1:CA:924:C:C6	2.20	0.76
6:CI:23:LYS:O	6:CI:27:GLN:HG2	1.84	0.76
27:DE:111:ARG:HE	27:DE:160:TYR:HE1	1.31	0.76
29:DG:127:GLY:O	29:DG:128:ARG:HG2	1.85	0.76
29:DG:142:PRO:HB2	49:D4:31:ILE:HD13	1.68	0.76
30:DH:153:LYS:HA	30:DH:153:LYS:NZ	1.99	0.76
43:DU:94:LYS:O	43:DU:101:LYS:HB3	1.85	0.76
2:AE:132:LYS:HD3	2:AE:135:GLN:HE21	1.51	0.76
2:AE:135:GLN:HG3	2:AE:136:VAL:HG23	1.67	0.76
24:BA:1339:G:H21	24:BA:1603:A:H1'	1.49	0.76
24:BA:2166:G:O2'	24:BA:2167:U:H5"	1.84	0.76
28:BF:24:LEU:HD13	28:BF:25:PRO:HD2	1.65	0.76
30:BH:30:LYS:HB2	30:BH:79:VAL:HG12	1.67	0.76
37:BQ:60:GLY:O	37:BQ:61:ASN:HB2	1.86	0.76
43:BU:15:VAL:CB	43:BU:22:GLY:HA2	2.13	0.76
46:BZ:86:SER:N	46:BZ:87:PRO:CD	2.48	0.76
5:CH:42:GLY:HA3	5:CH:66:MET:HG2	1.68	0.76
9:CL:113:LYS:HD2	9:CL:113:LYS:H	1.50	0.76
24:DA:49:A:N7	24:DA:120:U:C5	2.53	0.76
24:DA:1006:C:H1'	32:DM:106:MET:HE2	1.66	0.76
37:DQ:106:ARG:HA	37:DQ:110:LEU:HD21	1.64	0.76
47:DW:41:ILE:C	47:DW:41:ILE:HD12	2.10	0.76
24:BA:1613:G:N1	24:BA:1617:C:H2'	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:92:ILE:HG22	30:BH:93:GLY:N	2.00	0.76
30:BH:104:GLU:OE2	30:BH:114:VAL:HA	1.85	0.76
38:BR:96:ARG:HB2	38:BR:96:ARG:HH11	1.48	0.76
40:B2:58:VAL:HB	40:B2:98:GLU:CB	2.16	0.76
41:BS:1:MET:HE3	41:BS:1:MET:HA	1.66	0.76
43:BU:6:HIS:O	43:BU:7:VAL:HG13	1.86	0.76
3:CF:59:ARG:HH22	3:CF:97:LYS:HE3	1.50	0.76
5:CH:12:LEU:HD23	5:CH:13:ILE:N	2.00	0.76
16:CS:51:VAL:HG12	16:CS:52:ASP:N	1.97	0.76
24:DA:443:A:N7	28:DF:45:ARG:HD2	2.01	0.76
28:DF:29:ASN:H	28:DF:112:MET:CE	1.97	0.76
29:DG:61:ALA:HB2	29:DG:68:PRO:HD3	1.65	0.76
29:DG:76:SER:OG	29:DG:83:ARG:HA	1.85	0.76
33:DN:104:ARG:HH11	33:DN:104:ARG:HG2	1.50	0.76
35:DP:66:ILE:HG13	35:DP:67:ARG:N	2.00	0.76
35:DP:90:VAL:HG13	35:DP:91:GLU:H	1.49	0.76
1:AA:13:U:H5'	1:AA:14:U:OP2	1.85	0.76
4:AG:3:ARG:NH1	4:AG:5:ILE:HD13	2.00	0.76
9:AL:17:VAL:HA	9:AL:63:ILE:HG13	1.68	0.76
2:CE:44:LEU:H	2:CE:44:LEU:HD12	1.49	0.76
4:CG:9:CYS:SG	4:CG:22:LYS:HD2	2.25	0.76
5:CH:53:LEU:H	5:CH:53:LEU:CD1	1.99	0.76
24:DA:752:A:O2'	24:DA:753:C:OP2	2.02	0.76
24:DA:905:U:H2'	24:DA:906:G:H5"	1.67	0.76
24:DA:2733:A:H2'	24:DA:2734:A:O4'	1.86	0.76
31:DK:40:THR:HG22	31:DK:41:GLU:OE1	1.84	0.76
32:DM:62:VAL:HG12	32:DM:66:LYS:HD2	1.65	0.76
38:DR:111:ARG:O	38:DR:113:LYS:N	2.17	0.76
44:DV:138:GLU:C	44:DV:156:LYS:HD3	2.11	0.76
1:AA:920:U:H2'	1:AA:921:U:H6	1.47	0.76
1:AA:1128:C:H3'	1:AA:1139:G:O6	1.86	0.76
4:AG:12:CYS:CB	4:AG:32:ALA:HB2	2.15	0.76
24:BA:535:C:O2'	24:BA:536:A:H5'	1.86	0.76
30:BH:9:ILE:HB	30:BH:10:PRO:CA	2.15	0.76
47:BW:22:GLU:O	47:BW:26:ARG:HG3	1.85	0.76
51:B6:10:LEU:HA	51:B6:24:GLU:OE1	1.85	0.76
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.16	0.76
24:DA:2067:G:O3'	24:DA:2068:U:H4'	1.85	0.76
34:DO:97:PRO:O	34:DO:98:GLU:HB3	1.83	0.76
41:DS:73:ALA:HB3	41:DS:106:ILE:HG12	1.68	0.76
43:DU:95:LYS:HB3	43:DU:100:ALA:CA	2.10	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:820:U:H4'	1:AA:821:G:OP2	1.86	0.76
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.20	0.76
10:AM:10:GLY:HA3	10:AM:16:LEU:HD21	1.67	0.76
16:AS:49:LEU:HD12	16:AS:50:LYS:H	1.50	0.76
16:AS:54:GLU:CD	16:AS:54:GLU:H	1.94	0.76
24:BA:13:A:O2'	24:BA:15:G:N7	2.18	0.76
24:BA:360:G:H2'	24:BA:361:G:H8	1.49	0.76
25:BB:81:G:N2	25:BB:82:G:N7	2.33	0.76
33:BN:3:GLN:HB2	33:BN:4:PRO:HD2	1.68	0.76
37:BQ:100:ALA:HA	37:BQ:103:GLU:CG	2.15	0.76
38:BR:90:GLN:HE21	38:BR:90:GLN:HA	1.50	0.76
39:B1:95:LEU:C	39:B1:97:ASP:N	2.41	0.76
44:BV:120:ILE:HG12	44:BV:121:HIS:N	2.01	0.76
47:BW:50:ILE:CD1	47:BW:51:ARG:H	1.99	0.76
16:CS:22:THR:HA	16:CS:33:ILE:HG12	1.66	0.76
24:DA:175:G:O2'	24:DA:176:G:H5'	1.86	0.76
30:DH:125:VAL:HA	30:DH:126:PRO:HB3	1.68	0.76
34:DO:62:LEU:N	34:DO:62:LEU:CD2	2.46	0.76
51:D6:34:LEU:HD13	51:D6:34:LEU:H	1.50	0.76
18:AU:84:LYS:HE2	18:AU:84:LYS:HA	1.66	0.76
24:BA:877:U:H2'	24:BA:878:A:C5'	2.13	0.76
24:BA:1210:A:H4'	24:BA:1211:U:O5'	1.84	0.76
24:BA:2109:U:H2'	24:BA:2110:G:C8	2.20	0.76
26:BD:35:LYS:HB3	26:BD:36:PRO:HA	1.68	0.76
31:BK:92:VAL:HG12	31:BK:97:ILE:CD1	2.16	0.76
49:B4:14:ILE:HD11	49:B4:33:VAL:CG2	2.15	0.76
1:CA:164:U:H2'	1:CA:165:C:C6	2.20	0.76
1:CA:404:U:H2'	1:CA:405:U:H6	1.51	0.76
1:CA:1055:A:N6	1:CA:1200:C:N3	2.34	0.76
10:CM:38:ILE:HG12	10:CM:71:LEU:O	1.86	0.76
33:DN:107:ARG:HA	33:DN:112:MET:HE1	1.67	0.76
43:DU:81:LYS:HD3	43:DU:97:ARG:NE	2.00	0.76
46:DZ:86:SER:N	46:DZ:87:PRO:CD	2.48	0.76
1:AA:434:U:H2'	1:AA:435:C:C6	2.19	0.76
1:AA:457:C:H2'	1:AA:458:C:H6	1.50	0.76
1:AA:1541:U:C6	1:AA:1541:U:H3'	2.21	0.76
24:BA:752:A:O2'	24:BA:753:C:OP2	2.03	0.76
24:BA:1396:U:H2'	24:BA:1396:U:O2	1.83	0.76
27:BE:197:ILE:HD11	27:BE:199:ARG:CZ	2.15	0.76
30:BH:88:LEU:HD13	30:BH:164:TYR:O	1.85	0.76
31:BK:142:VAL:CG2	31:BK:143:SER:H	1.96	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:B1:113:ALA:O	39:B1:117:GLN:HB2	1.86	0.76
49:B4:24:THR:HG22	49:B4:25:TYR:N	1.99	0.76
5:CH:36:ASP:OD2	5:CH:38:GLN:HB2	1.86	0.76
7:CJ:37:ASN:ND2	9:CL:40:LEU:HD23	2.00	0.76
24:DA:2698:U:H2'	24:DA:2699:C:C6	2.21	0.76
26:DD:142:VAL:HG23	26:DD:193:VAL:HA	1.66	0.76
28:DF:101:LEU:CD1	28:DF:102:PRO:HD2	2.11	0.76
38:DR:50:ILE:HD12	38:DR:102:ILE:HD11	1.68	0.76
49:D4:34:GLU:HG3	49:D4:35:VAL:H	1.51	0.76
1:AA:1004:A:O2'	1:AA:1005:A:OP2	2.03	0.75
2:AE:67:THR:HG23	2:AE:160:ASP:H	1.52	0.75
24:BA:1056:G:H4'	24:BA:1086:A:C1'	2.14	0.75
24:BA:2173:A:C5	24:BA:2174:C:H1'	2.21	0.75
24:BA:2189:U:C2'	24:BA:2190:G:H5"	2.16	0.75
28:BF:66:PRO:O	28:BF:67:GLN:CB	2.34	0.75
30:BH:87:LEU:O	30:BH:131:VAL:HG13	1.86	0.75
1:CA:109:A:H4'	1:CA:110:C:OP2	1.85	0.75
1:CA:376:G:H5"	16:CS:5:ARG:HD2	1.67	0.75
4:CG:153:ARG:NH1	4:CG:181:MET:HG3	2.00	0.75
9:CL:62:TYR:C	9:CL:63:ILE:HD12	2.12	0.75
16:CS:6:LEU:HB3	16:CS:17:TYR:HD2	1.50	0.75
24:DA:1026:U:O2'	24:DA:1027:A:H5"	1.86	0.75
24:DA:1076:C:C3'	24:DA:1077:A:H5"	2.16	0.75
24:DA:1300:U:H4'	24:DA:1301:A:O5'	1.86	0.75
24:DA:1879:C:H2'	24:DA:1880:C:H5"	1.68	0.75
24:DA:2021:C:H5"	24:DA:2022:U:OP2	1.85	0.75
25:DB:8:U:H6	25:DB:8:U:C5'	1.98	0.75
27:DE:36:ARG:HH21	27:DE:88:GLY:HA2	1.51	0.75
27:DE:63:LEU:CD1	27:DE:65:GLY:H	1.99	0.75
1:AA:129(A):G:O2'	1:AA:189:U:H5"	1.85	0.75
1:AA:376:G:C5'	16:AS:5:ARG:HD3	2.16	0.75
24:BA:654(R):C:C4	24:BA:654(R):C:OP2	2.38	0.75
24:BA:1280:G:C2'	24:BA:1281:G:H5"	2.15	0.75
24:BA:1341:U:H3'	24:BA:1397:U:O2	1.86	0.75
31:BK:110:ASP:OD2	31:BK:113:ARG:HB2	1.86	0.75
34:BO:104:GLY:C	34:BO:105:LEU:HD12	2.11	0.75
35:BP:141:GLN:HB3	44:BV:75:ASN:N	2.00	0.75
36:B0:21:TYR:OH	36:B0:43:GLU:HG2	1.86	0.75
40:B2:70:ILE:HG22	40:B2:72:VAL:HG23	1.66	0.75
43:BU:20:TYR:O	43:BU:22:GLY:N	2.19	0.75
45:B3:53:MET:HB3	45:B3:59:LEU:HD23	1.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:117:GLU:O	2:CE:121:LEU:HB2	1.86	0.75
8:CK:5:PRO:O	8:CK:8:ASP:HB3	1.85	0.75
17:CT:41:LYS:NZ	17:CT:92:ARG:HH22	1.82	0.75
24:DA:1846:G:H5'	24:DA:1847:A:OP2	1.86	0.75
26:DD:69:ARG:HH21	26:DD:130:ALA:CB	1.99	0.75
27:DE:23:VAL:HG21	27:DE:183:LEU:HD23	1.68	0.75
29:DG:101:ILE:HG13	29:DG:102:PHE:H	1.49	0.75
33:DN:47:ILE:CD1	33:DN:48:PRO:HD2	2.16	0.75
44:DV:76:LEU:H	44:DV:76:LEU:HD23	1.51	0.75
1:AA:579:G:H5'	1:AA:728:A:H1'	1.67	0.75
5:AH:91:LEU:HG	5:AH:120:THR:HG22	1.68	0.75
15:AR:56:LEU:HA	15:AR:59:MET:HE3	1.66	0.75
24:BA:704:G:H2'	24:BA:726:G:H22	1.51	0.75
24:BA:1225:C:O2'	40:B2:85:LYS:N	2.19	0.75
24:BA:1880:C:H5'	24:BA:1880:C:H6	1.51	0.75
25:BB:42:C:H4'	29:BG:67:LYS:HG3	1.68	0.75
1:CA:88:C:H3'	1:CA:89:U:C6	2.21	0.75
1:CA:951:G:OP2	13:CP:102:ARG:NH2	2.20	0.75
1:CA:1036:G:H3'	1:CA:1037:C:C6	2.20	0.75
5:CH:11:ILE:HD11	5:CH:31:LEU:CD1	2.17	0.75
13:CP:49:THR:HG22	13:CP:51:ALA:N	2.01	0.75
24:DA:686:G:O6	52:D7:12:ARG:HG3	1.87	0.75
24:DA:1057:A:O2'	24:DA:1058:U:H5'	1.85	0.75
24:DA:1173:G:N3	24:DA:1175:U:H5	1.84	0.75
24:DA:1187:G:H5"	40:D2:81:TYR:CE2	2.22	0.75
39:D1:88:ILE:HG22	39:D1:90:VAL:HG23	1.67	0.75
39:D1:92:ARG:HH11	39:D1:95:LEU:CD1	2.00	0.75
40:D2:52:VAL:HG21	40:D2:55:ALA:HB3	1.68	0.75
43:DU:44:ILE:HG13	43:DU:45:VAL:N	2.00	0.75
53:D8:59:LYS:HB2	53:D8:59:LYS:HZ2	1.49	0.75
1:AA:1032(B):G:H2'	1:AA:1033:G:O4'	1.86	0.75
2:AE:238:LEU:HD12	2:AE:239:VAL:N	2.02	0.75
3:AF:59:ARG:CZ	3:AF:97:LYS:HZ1	1.99	0.75
9:AL:95:LYS:HD3	9:AL:96:LEU:N	2.02	0.75
13:AP:34:LEU:HA	13:AP:39:ILE:HG13	1.67	0.75
24:BA:270(L):U:H3	31:BK:50:ARG:NH1	1.84	0.75
24:BA:900:A:H3'	24:BA:901:A:H8	1.51	0.75
25:BB:116:G:H4'	37:BQ:54:LEU:HD12	1.68	0.75
31:BK:48:GLU:HA	31:BK:51:ILE:HD12	1.66	0.75
32:BM:9:VAL:HG21	32:BM:39:ARG:HH12	1.50	0.75
32:BM:104:LYS:HD2	32:BM:117:PHE:CD1	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:125:GLY:HA3	32:BM:126:PRO:O	1.86	0.75
39:B1:66:ASN:ND2	39:B1:70:ARG:HE	1.84	0.75
39:B1:98:LEU:C	39:B1:100:VAL:H	1.91	0.75
41:BS:96:ILE:HD13	41:BS:97:LYS:N	2.01	0.75
44:BV:118:GLN:HG3	44:BV:173:ALA:N	1.98	0.75
14:CQ:22:THR:O	14:CQ:23:ARG:HB2	1.85	0.75
24:DA:205:G:O2'	24:DA:206:U:OP2	2.03	0.75
24:DA:608:A:C5	24:DA:621:A:N6	2.54	0.75
29:DG:3:LEU:HD12	29:DG:4:ASP:H	1.52	0.75
34:DO:62:LEU:HD21	53:D8:25:MET:HB2	1.69	0.75
2:AE:91:PRO:HA	2:AE:154:LEU:HD11	1.69	0.75
4:AG:24:GLU:H	4:AG:27:TYR:HB2	1.49	0.75
24:BA:171:G:H2'	24:BA:172:C:H6	1.51	0.75
24:BA:1086:A:H4'	24:BA:1103:A:H61	1.51	0.75
24:BA:1534:G:N2	24:BA:1538:G:O6	2.19	0.75
24:BA:2285:C:H41	51:B6:25:LYS:CE	2.00	0.75
25:BB:109:G:H2'	25:BB:110:G:H8	1.50	0.75
27:BE:66:HIS:C	27:BE:68:ALA:H	1.94	0.75
28:BF:40:GLN:HE22	28:BF:182:ASN:HB2	1.49	0.75
39:B1:92:ARG:O	39:B1:92:ARG:HG3	1.85	0.75
41:BS:96:ILE:HD13	41:BS:96:ILE:C	2.12	0.75
51:B6:47:THR:HG22	51:B6:48:VAL:N	2.00	0.75
1:CA:382:A:H2'	1:CA:383:A:H8	1.51	0.75
1:CA:794:A:C2	1:CA:795:C:C4	2.74	0.75
10:CM:40:LEU:HB2	10:CM:69:ASN:HB3	1.65	0.75
16:CS:43:LYS:HG2	16:CS:48:TRP:CE3	2.22	0.75
24:DA:2537:U:H2'	24:DA:2538:C:C6	2.22	0.75
43:DU:97:ARG:HH21	43:DU:98:VAL:CB	1.98	0.75
45:D3:35:ASN:HD22	45:D3:35:ASN:H	1.32	0.75
46:DZ:56:GLN:NE2	46:DZ:56:GLN:N	2.34	0.75
46:DZ:80:LEU:C	46:DZ:81:LYS:HD2	2.12	0.75
2:AE:187:LEU:HD11	2:AE:204:ASN:O	1.85	0.75
11:AN:10:VAL:HG12	11:AN:11:LYS:HG2	1.67	0.75
22:AC:18:G:N2	22:AC:57:A:H2'	2.02	0.75
24:BA:860:U:O2'	24:BA:861:A:H5'	1.87	0.75
24:BA:2348:U:H2'	24:BA:2349:G:C5'	2.15	0.75
30:BH:33:LEU:HD21	30:BH:140:LYS:HE2	1.67	0.75
35:BP:12:GLN:HE21	35:BP:73:PRO:HD3	1.52	0.75
39:B1:8:VAL:HG23	39:B1:9:VAL:H	1.51	0.75
51:B6:44:ARG:O	51:B6:45:LYS:HG2	1.87	0.75
1:CA:537:G:H5"	12:CO:113:ARG:NH1	2.00	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1064:G:H1'	1:CA:1066:C:C6	2.22	0.75
1:CA:1222:G:OP1	19:CV:77:THR:HG21	1.86	0.75
7:CJ:23:VAL:HG12	7:CJ:27:ILE:HD11	1.69	0.75
18:CU:53:ARG:HH21	18:CU:60:ALA:N	1.84	0.75
24:DA:2401:U:C2'	24:DA:2402:C:H5"	2.17	0.75
36:D0:33:ARG:HH22	50:D5:55:ARG:HG2	1.50	0.75
42:DT:57:LEU:HD11	42:DT:78:LYS:HB2	1.68	0.75
50:D5:47:PRO:O	50:D5:48:GLU:HG3	1.86	0.75
4:AG:75:PHE:CE1	4:AG:93:PHE:HZ	2.05	0.75
24:BA:654(C):G:N2	24:BA:654(R):C:N3	2.35	0.75
24:BA:999:U:H2'	24:BA:1000:A:C5'	2.17	0.75
30:BH:108:GLY:HA3	30:BH:152:ARG:HH22	1.52	0.75
40:B2:61:VAL:HG13	40:B2:62:LEU:N	2.01	0.75
11:CN:48:ILE:HD11	11:CN:64:ALA:HA	1.67	0.75
19:CV:41:VAL:HG12	19:CV:44:MET:H	1.50	0.75
20:CW:58:LYS:HE3	20:CW:62:LEU:HD11	1.69	0.75
32:DM:42:TRP:HA	32:DM:48:MET:HE1	1.69	0.75
38:DR:57:PHE:C	38:DR:58:ASN:HD22	1.93	0.75
40:D2:35:LEU:H	40:D2:35:LEU:HD22	1.51	0.75
44:DV:5:LEU:HD23	44:DV:47:VAL:HG21	1.68	0.75
46:DZ:81:LYS:NZ	46:DZ:81:LYS:CA	2.31	0.75
1:AA:704:A:H5'	1:AA:705:U:OP2	1.87	0.75
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.51	0.75
9:AL:18:PHE:HB2	9:AL:62:TYR:HB3	1.66	0.75
24:BA:529:A:H2'	24:BA:529:A:N3	2.02	0.75
24:BA:1036:G:OP1	30:BH:59:ARG:HB2	1.86	0.75
24:BA:1286:A:H2'	24:BA:1288:U:OP2	1.87	0.75
24:BA:2420:C:OP1	53:B8:33:ASN:O	2.05	0.75
25:BB:50:G:OP1	37:BQ:63:THR:HG23	1.86	0.75
26:BD:221:VAL:HG12	26:BD:226:MET:HE2	1.69	0.75
28:BF:178:PRO:HB2	28:BF:201:VAL:HG11	1.69	0.75
36:B0:106:GLY:O	36:B0:107:ASP:HB3	1.86	0.75
51:B6:30:THR:HA	51:B6:31:PRO:O	1.86	0.75
51:B6:30:THR:HA	51:B6:31:PRO:C	2.11	0.75
21:CX:10:ARG:HG2	21:CX:13:ILE:HD12	1.68	0.75
24:DA:265:A:N6	24:DA:427:U:O2'	2.19	0.75
24:DA:559:G:H22	39:D1:49:HIS:CD2	2.03	0.75
26:DD:146:GLU:HB2	26:DD:189:CYS:HB3	1.67	0.75
36:D0:73:VAL:O	36:D0:76:VAL:HG12	1.87	0.75
40:D2:51:VAL:HG12	40:D2:52:VAL:H	1.52	0.75
43:DU:90:LEU:N	43:DU:90:LEU:HD22	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:80:LEU:O	46:DZ:81:LYS:CB	2.35	0.75
2:AE:15:VAL:HG11	2:AE:213:LEU:HD13	1.68	0.75
24:BA:2389:G:H5"	24:BA:2390:U:H5'	1.69	0.75
30:BH:7:LEU:HD13	30:BH:69:ARG:HB2	1.69	0.75
30:BH:18:GLU:HB2	30:BH:25:LYS:HB2	1.69	0.75
34:BO:19:VAL:HG22	34:BO:20:GLY:H	1.50	0.75
39:B1:92:ARG:O	39:B1:94:ASN:N	2.20	0.75
40:B2:24:LYS:HA	40:B2:92:THR:OG1	1.87	0.75
1:CA:659:U:H2'	1:CA:660:G:C8	2.22	0.75
1:CA:1004:A:P	1:CA:1025:U:O4	2.45	0.75
1:CA:1234:C:O2'	1:CA:1235:U:H5'	1.86	0.75
15:CR:74:ASP:CG	15:CR:77:ARG:HG2	2.12	0.75
20:CW:26:ASN:O	20:CW:30:LYS:HB2	1.85	0.75
28:DF:7:TYR:HB3	28:DF:21:ALA:CB	2.16	0.75
34:DO:75:ILE:HD13	34:DO:75:ILE:N	2.00	0.75
43:DU:97:ARG:NH2	43:DU:98:VAL:HB	2.00	0.75
4:AG:30:LYS:HB3	4:AG:35:ARG:NH1	2.02	0.74
15:AR:3:ILE:HG22	15:AR:38:ARG:HE	1.49	0.74
24:BA:999:U:O2'	24:BA:1000:A:H5"	1.87	0.74
30:BH:9:ILE:HG21	30:BH:48:GLY:O	1.86	0.74
41:BS:75:TYR:CE2	41:BS:104:THR:HB	2.22	0.74
47:BW:17:SER:HA	47:BW:20:GLU:CG	2.17	0.74
1:CA:382:A:H2'	1:CA:383:A:C8	2.21	0.74
1:CA:486:U:H2'	1:CA:487:A:C8	2.21	0.74
1:CA:1182:G:H4'	1:CA:1183:A:H5"	1.68	0.74
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.21	0.74
1:CA:1362(A):C:H5'	1:CA:1363:A:O5'	1.86	0.74
6:CI:60:PHE:C	6:CI:61:LEU:HD12	2.12	0.74
7:CJ:9:VAL:HG13	7:CJ:94:ARG:HE	1.52	0.74
7:CJ:148:ASN:N	7:CJ:148:ASN:HD22	1.82	0.74
17:CT:59:ILE:H	17:CT:59:ILE:HD13	1.50	0.74
23:C1:11:U:O2'	23:C1:12:A:OP1	2.05	0.74
24:DA:894:C:H2'	24:DA:895:U:C6	2.22	0.74
27:DE:61:ARG:HB2	27:DE:62:PRO:HD3	1.69	0.74
34:DO:64:LYS:C	34:DO:66:GLY:H	1.94	0.74
38:DR:43:GLN:HG2	38:DR:44:ASP:N	1.99	0.74
1:AA:989:C:H1'	1:AA:1016:A:H2	1.52	0.74
1:AA:1068:G:OP2	1:AA:1094:G:H5"	1.87	0.74
9:AL:19:LEU:HA	9:AL:60:ASP:O	1.85	0.74
10:AM:79:ARG:HD3	10:AM:79:ARG:H	1.52	0.74
24:BA:1257:C:H4'	28:BF:83:PHE:CE2	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:75:ILE:HD13	43:BU:76:CYS:N	2.02	0.74
44:BV:80:ARG:HB2	44:BV:82:ARG:HG2	1.67	0.74
49:B4:12:ALA:CB	49:B4:24:THR:HB	2.18	0.74
51:B6:47:THR:HB	51:B6:49:HIS:CE1	2.23	0.74
1:CA:1028:C:C3'	1:CA:1028(A):C:H5"	2.17	0.74
23:C1:9:G:O2'	23:C1:10:G:H5"	1.87	0.74
24:DA:1266:G:O2'	24:DA:1267:U:OP2	2.02	0.74
38:DR:78:LEU:HD13	38:DR:78:LEU:O	1.87	0.74
44:DV:103:ARG:HB2	44:DV:138:GLU:HA	1.69	0.74
1:AA:407:G:O2'	4:AG:116:GLN:HG3	1.86	0.74
1:AA:1296:C:H4'	1:AA:1302:U:O4	1.87	0.74
3:AF:157:ILE:C	3:AF:159:GLY:H	1.95	0.74
7:AJ:94:ARG:O	7:AJ:97:GLN:HB3	1.87	0.74
13:AP:66:LEU:HA	13:AP:70:LEU:HD12	1.69	0.74
22:AD:6:G:O2'	22:AD:7:G:O5'	2.05	0.74
24:BA:1047:G:H2'	24:BA:1110:G:N2	2.02	0.74
24:BA:2050:C:H2'	24:BA:2051:A:O4'	1.87	0.74
24:BA:2478:A:C2	24:BA:2529:G:H2'	2.21	0.74
29:BG:37:VAL:HG13	29:BG:158:ALA:O	1.87	0.74
1:CA:15:G:H4'	5:CH:24:ARG:NH1	2.01	0.74
1:CA:267:C:OP2	17:CT:67:LYS:HD2	1.87	0.74
1:CA:1151:A:H1'	10:CM:39:PRO:HB2	1.67	0.74
1:CA:1321:C:H5"	1:CA:1322:C:H5"	1.69	0.74
6:CI:32:ASN:HD22	6:CI:32:ASN:N	1.85	0.74
24:DA:1359:A:H8	24:DA:1359:A:C5'	2.00	0.74
24:DA:2503:A:O2'	24:DA:2505:G:OP2	2.05	0.74
31:DK:67:ARG:CZ	31:DK:68:LEU:HB2	2.17	0.74
41:DS:40:ASN:O	41:DS:41:LYS:HG2	1.86	0.74
1:AA:1238:A:H62	1:AA:1301:U:H3	1.32	0.74
4:AG:178:VAL:HG12	4:AG:179:GLU:H	1.52	0.74
15:AR:33:THR:HG23	15:AR:63:ARG:NH1	2.01	0.74
18:AU:18:ARG:CZ	18:AU:18:ARG:HB2	2.16	0.74
20:AW:10:LEU:HD22	20:AW:11:SER:N	2.02	0.74
24:BA:288:C:H2'	24:BA:289:A:C8	2.21	0.74
24:BA:1963:U:H2'	24:BA:1963:U:O2	1.85	0.74
28:BF:7:TYR:HE1	28:BF:10:PRO:HG3	1.50	0.74
31:BK:82:ARG:HH11	31:BK:146:ALA:HB2	1.52	0.74
35:BP:56:ARG:HB2	35:BP:56:ARG:HH11	1.50	0.74
5:CH:10:MET:CB	5:CH:32:VAL:HG22	2.18	0.74
5:CH:72:GLN:NE2	5:CH:144:THR:HG22	2.01	0.74
8:CK:91:ARG:HH11	8:CK:91:ARG:HG2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CV:3:ARG:HG3	19:CV:4:SER:H	1.52	0.74
24:DA:1170:G:H8	24:DA:1170:G:H5'	1.52	0.74
24:DA:1586:A:H3'	24:DA:1587:A:H8	1.51	0.74
24:DA:2065:C:H2'	24:DA:2066:C:H6	1.51	0.74
24:DA:2458:G:H2'	24:DA:2490:G:O6	1.87	0.74
24:DA:2760:C:H2'	24:DA:2761:G:C5'	2.18	0.74
26:DD:54:ARG:HG3	26:DD:54:ARG:HH11	1.49	0.74
32:DM:96:GLU:HG2	32:DM:97:ARG:N	2.01	0.74
43:DU:51:VAL:HG13	43:DU:52:SER:N	2.03	0.74
12:AO:127:GLU:CD	12:AO:127:GLU:H	1.96	0.74
14:AQ:23:ARG:HD2	14:AQ:28:GLY:O	1.87	0.74
19:AV:40:ILE:HB	19:AV:67:VAL:O	1.87	0.74
24:BA:622:G:O2'	24:BA:623:G:H5'	1.88	0.74
32:BM:95:PRO:O	32:BM:98:VAL:HG22	1.87	0.74
44:BV:107:THR:CB	44:BV:108:PRO:HD3	2.18	0.74
47:BW:47:ASN:O	47:BW:49:LYS:N	2.20	0.74
1:CA:1023:G:H3'	1:CA:1024:G:H5"	1.69	0.74
1:CA:1124:G:H5"	1:CA:1145:C:H41	1.52	0.74
3:CF:181:ASN:ND2	3:CF:204:LEU:HD12	1.99	0.74
24:DA:2176:A:H2'	24:DA:2177:C:C6	2.21	0.74
24:DA:2543:G:H21	24:DA:2646:C:H5"	1.52	0.74
26:DD:30:GLU:HG3	26:DD:63:ARG:CZ	2.17	0.74
28:DF:129:PHE:HA	28:DF:142:TRP:NE1	2.01	0.74
31:DK:2:LYS:HA	31:DK:20:ASP:HB3	1.68	0.74
35:DP:79:LEU:O	35:DP:79:LEU:CD2	2.36	0.74
44:DV:60:GLU:HA	44:DV:66:SER:HA	1.69	0.74
46:DZ:26:ARG:O	46:DZ:26:ARG:HD2	1.86	0.74
48:DX:7:LYS:HB2	48:DX:34:GLU:HG2	1.69	0.74
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.22	0.74
7:AJ:10:ARG:HH11	7:AJ:10:ARG:HG2	1.50	0.74
24:BA:8:A:H2'	24:BA:9:U:C6	2.22	0.74
24:BA:51:G:O2'	24:BA:119:A:N1	2.19	0.74
37:BQ:26:LEU:HD22	37:BQ:87:PHE:HD1	1.53	0.74
38:BR:127:ALA:O	38:BR:131:ALA:HB2	1.88	0.74
10:CM:27:ALA:HB1	10:CM:34:VAL:HG21	1.69	0.74
19:CV:42:PRO:HD3	49:D4:63:TYR:CE2	2.23	0.74
20:CW:35:THR:O	20:CW:39:LYS:HG3	1.87	0.74
24:DA:323:G:H2'	28:DF:169:ASN:ND2	2.03	0.74
24:DA:1062:G:H2'	24:DA:1063:G:H8	1.52	0.74
24:DA:2507:C:H5'	24:DA:2507:C:C6	2.18	0.74
39:D1:52:ARG:HH11	39:D1:52:ARG:HG2	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:7:ALA:HB2	44:DV:59:LEU:HD22	1.67	0.74
11:AN:13:GLN:HG3	11:AN:75:TYR:O	1.87	0.74
13:AP:24:GLY:C	13:AP:25:ILE:HD12	2.13	0.74
24:BA:1578:U:H2'	24:BA:1579:A:H5"	1.69	0.74
24:BA:2645:G:H4'	24:BA:2732:G:O2'	1.87	0.74
29:BG:5:VAL:HG12	29:BG:6:ALA:H	1.53	0.74
31:BK:125:GLU:HA	31:BK:141:LYS:HB3	1.69	0.74
37:BQ:17:ARG:HG3	37:BQ:18:ILE:N	2.02	0.74
37:BQ:67:ARG:O	37:BQ:71:ARG:HG3	1.86	0.74
51:B6:42:TRP:CD1	51:B6:44:ARG:HH11	2.05	0.74
1:CA:429:U:H4'	1:CA:430:A:O5'	1.85	0.74
1:CA:1028:C:H2'	1:CA:1028(A):C:H5"	1.69	0.74
7:CJ:78:ARG:HH12	7:CJ:80:VAL:HG23	1.52	0.74
16:CS:43:LYS:O	16:CS:45:THR:N	2.21	0.74
30:DH:150:ALA:C	30:DH:152:ARG:N	2.44	0.74
37:DQ:36:TYR:CD2	37:DQ:52:SER:HB3	2.23	0.74
39:D1:64:ARG:HH21	39:D1:64:ARG:CG	2.00	0.74
1:AA:1001:G:H4'	1:AA:1001:G:OP1	1.86	0.74
1:AA:1007:C:H2'	1:AA:1008:C:O4'	1.87	0.74
1:AA:1256:A:H5'	1:AA:1257:U:OP1	1.88	0.74
2:AE:185:ILE:HG22	2:AE:199:TYR:CB	2.08	0.74
2:AE:194:PRO:HG2	2:AE:195:ASP:OD1	1.87	0.74
24:BA:481:G:OP2	43:BU:47:LYS:HB2	1.87	0.74
24:BA:2712:U:O2'	24:BA:2712(A):A:O5'	2.04	0.74
30:BH:22:GLY:C	30:BH:37:VAL:HB	2.12	0.74
40:B2:35:LEU:HD23	40:B2:37:VAL:CG2	2.16	0.74
49:B4:16:CYS:C	49:B4:18:CYS:N	2.40	0.74
1:CA:191:G:C4	20:CW:105:SER:HB3	2.23	0.74
1:CA:1262:C:H2'	1:CA:1263:C:H6	1.51	0.74
1:CA:1318:A:H4'	19:CV:11:VAL:CG1	2.18	0.74
1:CA:1537:U:H2'	1:CA:1538:C:C5	2.23	0.74
2:CE:47:THR:O	2:CE:51:LEU:HG	1.87	0.74
5:CH:45:PHE:CE2	5:CH:47:LYS:HD2	2.22	0.74
24:DA:38:A:H2'	24:DA:39:C:C6	2.23	0.74
28:DF:29:ASN:HB3	28:DF:112:MET:HE1	1.70	0.74
28:DF:136:THR:HG22	28:DF:166:ALA:O	1.87	0.74
31:DK:3:VAL:HG12	31:DK:38:LEU:HA	1.69	0.74
31:DK:5:LEU:H	31:DK:5:LEU:HD12	1.51	0.74
38:DR:26:ASP:HB3	38:DR:91:ARG:HA	1.69	0.74
48:DX:29:ARG:HB2	48:DX:29:ARG:HH11	1.52	0.74
49:D4:41:PRO:O	49:D4:42:PHE:HB3	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AV:20:LEU:HA	19:AV:44:MET:HE1	1.69	0.74
25:BB:75:G:N2	35:BP:141:GLN:OE1	2.21	0.74
31:BK:56:LYS:HD2	31:BK:60:GLU:HB2	1.69	0.74
32:BM:120:LEU:HD21	32:BM:122:VAL:HG23	1.69	0.74
35:BP:141:GLN:HG2	44:BV:75:ASN:CG	2.12	0.74
48:BX:8:LEU:CD1	48:BX:31:LEU:HA	2.18	0.74
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.23	0.74
4:CG:25:ARG:HH12	4:CG:30:LYS:HG3	1.52	0.74
6:CI:19:LEU:O	6:CI:19:LEU:HD23	1.88	0.74
6:CI:91:VAL:HG13	18:CU:72:ARG:HH12	1.51	0.74
10:CM:33:GLN:O	10:CM:75:ILE:HG12	1.87	0.74
24:DA:205:G:O2'	24:DA:206:U:P	2.46	0.74
24:DA:631:A:OP2	53:D8:46:ARG:NH2	2.20	0.74
40:D2:1:MET:HE2	40:D2:43:GLU:CG	2.17	0.74
40:D2:15:GLU:O	40:D2:18:LEU:HB2	1.87	0.74
1:AA:818:G:H3'	1:AA:819:A:H5'	1.70	0.74
24:BA:1328:G:H2'	24:BA:1330:C:C4	2.22	0.74
24:BA:1784:A:H4'	24:BA:1785:A:C5'	2.17	0.74
24:BA:1869:G:H5'	24:BA:1870:C:OP2	1.88	0.74
27:BE:35:GLN:HB2	27:BE:48:GLN:NE2	2.03	0.74
27:BE:37:ARG:HD3	27:BE:44:TYR:OH	1.87	0.74
27:BE:131:ALA:HB1	27:BE:135:HIS:HE1	1.52	0.74
27:BE:203:LYS:HD3	27:BE:204:ALA:N	2.03	0.74
42:BT:80:ILE:O	42:BT:80:ILE:HG13	1.88	0.74
49:B4:10:VAL:CG1	49:B4:11:PRO:HD2	2.18	0.74
53:B8:34:TRP:CD1	53:B8:35:GLN:H	2.06	0.74
1:CA:737:A:H2'	1:CA:738:C:C6	2.22	0.74
1:CA:794:A:H5'	1:CA:794:A:H8	1.51	0.74
1:CA:1178:G:H5'	9:CL:93:ARG:NH2	2.02	0.74
2:CE:101:MET:CA	2:CE:108:ILE:HG13	2.11	0.74
5:CH:72:GLN:HE21	5:CH:144:THR:HG22	1.53	0.74
24:DA:2064:C:H2'	24:DA:2065:C:C6	2.23	0.74
24:DA:2273:A:O2'	24:DA:2274:A:H5'	1.87	0.74
9:AL:65:VAL:HG21	9:AL:73:GLN:HB3	1.68	0.73
12:AO:79:GLU:HG3	12:AO:80:HIS:ND1	2.03	0.73
18:AU:22:VAL:HG11	18:AU:56:THR:HA	1.68	0.73
24:BA:13:A:H61	24:BA:525:U:H3'	1.53	0.73
24:BA:1278:A:OP1	36:B0:36:THR:HG22	1.88	0.73
24:BA:2250:G:N1	35:BP:82:ARG:HD3	2.01	0.73
28:BF:63:LYS:HE2	28:BF:67:GLN:HB3	1.70	0.73
30:BH:124:GLU:O	30:BH:125:VAL:CG2	2.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:90:GLY:O	31:BK:121:LYS:HD2	1.87	0.73
34:BO:85:LEU:HA	34:BO:88:LEU:HB3	1.70	0.73
40:B2:5:VAL:HG23	40:B2:37:VAL:HG21	1.69	0.73
44:BV:53:ILE:HG22	44:BV:71:VAL:O	1.86	0.73
1:CA:466:C:H5"	1:CA:467:G:OP2	1.87	0.73
13:CP:37:THR:HG21	13:CP:39:ILE:HD11	1.68	0.73
22:CD:17:C:N4	22:CD:18:G:H5'	2.02	0.73
24:DA:345:A:H4'	24:DA:346:A:OP1	1.86	0.73
31:DK:67:ARG:NE	31:DK:68:LEU:H	1.86	0.73
32:DM:56:ASN:HD22	32:DM:125:GLY:C	1.96	0.73
38:DR:54:ARG:HH11	38:DR:54:ARG:HG2	1.52	0.73
44:DV:63:ASP:O	44:DV:65:GLN:HG2	1.88	0.73
7:AJ:13:GLN:O	7:AJ:24:THR:HG21	1.88	0.73
9:AL:73:GLN:O	9:AL:77:ILE:HG13	1.87	0.73
11:AN:13:GLN:CG	11:AN:75:TYR:O	2.36	0.73
22:AD:70:G:C3'	22:AD:71:C:H5"	2.17	0.73
24:BA:288:C:H2'	24:BA:289:A:H8	1.53	0.73
24:BA:1054:A:H2'	24:BA:1055:G:C8	2.23	0.73
24:BA:2522:U:H2'	24:BA:2523:G:H5"	1.70	0.73
25:BB:83:G:H5"	48:BX:52:HIS:CE1	2.24	0.73
26:BD:131:LEU:HB2	26:BD:136:ILE:HD11	1.70	0.73
28:BF:21:ALA:C	28:BF:23:ASP:H	1.95	0.73
1:CA:1451:A:H5"	1:CA:1452:C:O2	1.88	0.73
15:CR:70:LEU:O	15:CR:70:LEU:HD12	1.88	0.73
24:DA:70:G:H2'	24:DA:113:G:O2'	1.88	0.73
24:DA:1964:G:H4'	24:DA:1965:C:OP2	1.88	0.73
27:DE:78:LEU:HG	27:DE:79:ARG:NE	2.03	0.73
30:DH:153:LYS:HG3	30:DH:161:GLY:CA	2.18	0.73
33:DN:26:LYS:HB2	33:DN:30:ALA:CB	2.18	0.73
8:AK:40:ALA:HB2	8:AK:45:ILE:HG13	1.70	0.73
8:AK:88:LYS:HB3	8:AK:89:PRO:HD2	1.70	0.73
18:AU:70:ILE:O	18:AU:74:ARG:HG3	1.88	0.73
24:BA:1301:A:O2'	24:BA:1302:A:H3'	1.88	0.73
24:BA:1926:U:H2'	24:BA:1928:A:OP2	1.88	0.73
24:BA:2015:A:H1'	50:B5:2:ALA:HA	1.67	0.73
24:BA:2046:G:H2'	24:BA:2047:U:C6	2.22	0.73
24:BA:2875:C:O2'	38:BR:5:ALA:HB3	1.89	0.73
25:BB:75:G:H8	25:BB:75:G:H5'	1.53	0.73
29:BG:41:GLN:HB3	29:BG:43:LEU:HD13	1.71	0.73
49:B4:11:PRO:O	49:B4:25:TYR:HD1	1.68	0.73
1:CA:563:A:H1'	1:CA:566:G:O2'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:134:ILE:HD11	3:CF:153:VAL:HG21	1.70	0.73
22:CD:63:G:H2'	22:CD:64:G:C8	2.23	0.73
24:DA:229:A:H4'	24:DA:229:A:OP1	1.87	0.73
24:DA:1348:G:H2'	24:DA:1349:A:H5"	1.70	0.73
24:DA:1378:A:C2'	24:DA:1379:A:H5"	2.17	0.73
24:DA:2542:A:H5'	24:DA:2543:G:OP1	1.88	0.73
26:DD:131:LEU:HB2	26:DD:136:ILE:CD1	2.17	0.73
1:AA:250:A:H4'	1:AA:251:G:O5'	1.88	0.73
1:AA:1178:G:H5'	9:AL:93:ARG:HH21	1.52	0.73
22:AD:17:C:H3'	22:AD:17(A):C:H5"	1.70	0.73
24:BA:654(R):C:C5	24:BA:654(R):C:OP1	2.40	0.73
24:BA:1324:G:O2'	24:BA:1616:A:C6	2.41	0.73
24:BA:1505:C:H5'	24:BA:1505:C:H6	1.54	0.73
24:BA:1639:U:C2'	24:BA:1640:C:H5"	2.18	0.73
24:BA:1822:G:H8	24:BA:1822:G:H5'	1.52	0.73
26:BD:201:HIS:O	26:BD:204:ILE:HG12	1.89	0.73
30:BH:7:LEU:HD13	30:BH:69:ARG:CB	2.18	0.73
33:BN:1:MET:HE3	33:BN:67:LYS:HG2	1.70	0.73
38:BR:8:LYS:HB2	38:BR:8:LYS:HZ2	1.48	0.73
24:DA:322:A:H4'	24:DA:323:G:OP2	1.87	0.73
24:DA:2469:A:O2'	35:DP:56:ARG:HG2	1.88	0.73
38:DR:102:ILE:HB	38:DR:110:ILE:CD1	2.19	0.73
1:AA:1239:A:H62	1:AA:1299:A:N6	1.85	0.73
1:AA:1281:U:O2'	1:AA:1282:C:OP1	2.06	0.73
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.23	0.73
7:AJ:41:ARG:O	7:AJ:45:ASP:HB2	1.88	0.73
13:AP:4:ILE:HG23	13:AP:5:ALA:H	1.53	0.73
24:BA:2310:A:N6	29:BG:79:ASN:ND2	2.36	0.73
24:BA:2533:A:C2'	24:BA:2534:A:H5"	2.18	0.73
51:B6:10:LEU:O	51:B6:11:LEU:HB2	1.86	0.73
2:CE:8:LYS:HD3	2:CE:8:LYS:N	2.03	0.73
24:DA:1024:G:C3'	24:DA:1025:G:H5"	2.18	0.73
24:DA:1728:G:H3'	24:DA:1729:A:C5'	2.15	0.73
24:DA:1864:U:C2'	24:DA:1869:G:H5"	2.18	0.73
24:DA:2712:U:H1'	24:DA:2712(A):A:N7	2.03	0.73
53:D8:61:LEU:O	53:D8:62:LEU:HB2	1.88	0.73
1:AA:736:C:H2'	1:AA:737:A:C8	2.22	0.73
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.24	0.73
1:AA:1375:A:H4'	7:AJ:29:LYS:HZ3	1.49	0.73
2:AE:104:ASN:ND2	2:AE:107:THR:HB	2.03	0.73
20:AW:23:ARG:O	20:AW:27:LYS:HB2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:242:G:HO2'	24:BA:243:U:P	2.12	0.73
24:BA:530:G:C6	24:BA:2022:U:H5"	2.24	0.73
24:BA:2614:A:H4'	24:BA:2615:U:OP1	1.87	0.73
34:BO:101:VAL:HA	34:BO:105:LEU:O	1.88	0.73
47:BW:17:SER:OG	47:BW:18:PRO:HA	1.88	0.73
53:B8:32:LEU:HB2	53:B8:36:LYS:CE	2.17	0.73
1:CA:135:C:H2'	1:CA:136:C:H5'	1.69	0.73
1:CA:411:A:N7	1:CA:413:G:N3	2.36	0.73
1:CA:437:U:H2'	1:CA:438:G:O4'	1.87	0.73
1:CA:689:C:C2'	1:CA:690:G:H5'	2.19	0.73
1:CA:792:A:C1'	1:CA:794:A:H62	2.00	0.73
4:CG:146:ILE:HD12	4:CG:146:ILE:N	2.04	0.73
7:CJ:8:GLU:CD	7:CJ:8:GLU:H	1.96	0.73
24:DA:637:A:H4'	24:DA:638:G:O5'	1.88	0.73
24:DA:1056:G:N2	24:DA:1103:A:N7	2.37	0.73
24:DA:2159:G:H2'	24:DA:2160:G:C8	2.24	0.73
27:DE:77:ILE:HD12	27:DE:78:LEU:H	1.52	0.73
35:DP:79:LEU:O	35:DP:79:LEU:CD1	2.35	0.73
1:AA:547:A:H4'	1:AA:548:G:O5'	1.86	0.73
1:AA:1139:G:H21	1:AA:1143:G:H1	1.37	0.73
1:AA:1279:A:H2	10:AM:43:ARG:HH22	1.34	0.73
3:AF:108:ASN:HD21	3:AF:144:SER:HB2	1.53	0.73
24:BA:914:C:H2'	24:BA:915:C:H5'	1.71	0.73
24:BA:2315:G:H2'	24:BA:2316:C:H6	1.52	0.73
24:BA:2893:G:C5'	24:BA:2894:G:H5'	2.18	0.73
26:BD:35:LYS:HZ1	26:BD:104:TYR:HB2	1.53	0.73
30:BH:20:ALA:HB2	30:BH:25:LYS:HE3	1.69	0.73
37:BQ:10:ARG:C	37:BQ:12:PHE:H	1.97	0.73
44:BV:165:VAL:HG13	44:BV:166:SER:H	1.54	0.73
50:B5:46:CYS:SG	50:B5:48:GLU:HG2	2.29	0.73
1:CA:1054:C:C4	22:CB:35:C:H1'	2.24	0.73
3:CF:107:GLN:CD	3:CF:107:GLN:H	1.97	0.73
8:CK:20:TYR:HD1	8:CK:65:TYR:CD2	2.07	0.73
16:CS:60:LEU:HA	16:CS:64:ALA:HB3	1.71	0.73
24:DA:1266:G:HO2'	24:DA:1267:U:P	2.12	0.73
26:DD:77:ALA:CB	26:DD:97:TYR:HA	2.18	0.73
37:DQ:62:LYS:HB3	37:DQ:97:ARG:HD3	1.69	0.73
5:AH:72:GLN:O	5:AH:75:THR:HG22	1.89	0.73
7:AJ:50:ILE:HG13	7:AJ:58:PRO:HB3	1.70	0.73
24:BA:654(R):C:C4	24:BA:654(R):C:H5"	2.11	0.73
27:BE:3:GLY:HA3	27:BE:81:ILE:CD1	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:50:VAL:HG23	30:BH:51:ARG:HH22	1.54	0.73
40:B2:44:LYS:O	40:B2:46:VAL:N	2.22	0.73
45:B3:36:ILE:HD13	45:B3:36:ILE:O	1.88	0.73
1:CA:1277:C:HO2'	1:CA:1279:A:H8	1.35	0.73
2:CE:115:LEU:HD13	2:CE:145:LEU:HB3	1.69	0.73
18:CU:56:THR:HB	18:CU:58:LEU:HD12	1.71	0.73
23:C1:23:A:H5'	23:C1:23:A:N3	2.04	0.73
24:DA:2319:G:N7	37:DQ:3:ARG:HB3	2.03	0.73
28:DF:29:ASN:H	28:DF:112:MET:HE1	1.54	0.73
50:D5:40:LYS:CE	50:D5:46:CYS:HB3	2.19	0.73
24:BA:807:U:H2'	24:BA:808:G:H8	1.53	0.73
24:BA:1022:G:O6	32:BM:66:LYS:HE2	1.89	0.73
24:BA:2449:U:HO2'	24:BA:2450:A:H8	1.36	0.73
40:B2:80:GLN:N	40:B2:80:GLN:NE2	2.36	0.73
1:CA:690:G:H22	11:CN:55:LYS:NZ	1.83	0.73
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.24	0.73
2:CE:75:LYS:O	2:CE:75:LYS:HD3	1.89	0.73
22:CD:15:G:N2	22:CD:59:A:H1'	2.03	0.73
24:DA:196:A:H2'	24:DA:805:G:O6	1.89	0.73
24:DA:993:G:OP1	39:D1:50:ARG:NH2	2.22	0.73
24:DA:1694:C:H1'	24:DA:1695:G:C2	2.24	0.73
29:DG:7:LEU:HD21	29:DG:176:LEU:HD22	1.70	0.73
31:DK:131:LYS:HB3	31:DK:132:PRO:HA	1.70	0.73
47:DW:29:LYS:HD3	47:DW:57:ILE:HD13	1.71	0.73
49:D4:29:PRO:O	49:D4:30:GLU:HB2	1.89	0.73
1:AA:792:A:N9	1:AA:794:A:N6	2.36	0.73
1:AA:1322:C:H2'	1:AA:1322:C:O2	1.89	0.73
2:AE:97:TRP:NE1	2:AE:101:MET:HG3	2.03	0.73
2:AE:215:LEU:O	2:AE:219:VAL:HG12	1.89	0.73
4:AG:139:ARG:HG3	4:AG:139:ARG:HH11	1.54	0.73
5:AH:101:ILE:HD11	5:AH:119:LEU:HD23	1.70	0.73
19:AV:67:VAL:HG11	49:B4:59:PHE:CD1	2.23	0.73
24:BA:33:U:C4'	24:BA:34:C:OP1	2.36	0.73
24:BA:1165:U:H2'	24:BA:1166:C:C6	2.24	0.73
24:BA:2046:G:H2'	24:BA:2047:U:H6	1.54	0.73
44:BV:157:LEU:HB3	44:BV:161:VAL:CG2	2.17	0.73
1:CA:1410:G:H2'	1:CA:1411:C:C6	2.24	0.73
24:DA:270(T):G:H5"	46:DZ:97:LEU:HD22	1.68	0.73
24:DA:1043:C:N3	24:DA:1112:G:N2	2.35	0.73
25:DB:48:A:H2'	25:DB:49:C:C6	2.24	0.73
43:DU:48:ALA:O	43:DU:49:VAL:C	2.30	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D6:13:CYS:HA	51:D6:50:ARG:O	1.89	0.73
53:D8:16:ILE:HD11	53:D8:57:ARG:HG2	1.69	0.73
1:AA:191(C):G:H3'	1:AA:191(D):U:H5"	1.71	0.72
1:AA:634:C:O2'	1:AA:635:G:H5'	1.89	0.72
2:AE:12:GLU:HB2	2:AE:213:LEU:HD11	1.69	0.72
2:AE:228:GLY:O	2:AE:230:VAL:HG23	1.89	0.72
9:AL:38:GLN:C	9:AL:40:LEU:H	1.96	0.72
10:AM:6:ILE:O	10:AM:6:ILE:HG13	1.86	0.72
24:BA:858:U:O2'	24:BA:2268:A:C2'	2.37	0.72
24:BA:1151:G:H5"	39:B1:81:HIS:CE1	2.24	0.72
24:BA:2534:A:H5'	24:BA:2534:A:H8	1.53	0.72
24:BA:2665:A:O2'	24:BA:2666:C:H5'	1.89	0.72
29:BG:20:ILE:O	29:BG:24:GLY:HA2	1.89	0.72
30:BH:124:GLU:O	30:BH:125:VAL:CB	2.37	0.72
33:BN:104:ARG:HH11	33:BN:104:ARG:HB3	1.54	0.72
34:BO:146:VAL:CG2	34:BO:147:LEU:HD13	2.17	0.72
37:BQ:62:LYS:O	37:BQ:65:VAL:HB	1.89	0.72
40:B2:79:VAL:C	40:B2:80:GLN:NE2	2.47	0.72
43:BU:89:PHE:O	43:BU:90:LEU:HD22	1.89	0.72
52:B7:12:ARG:CD	52:B7:46:VAL:HG21	2.18	0.72
1:CA:73:G:H2'	1:CA:74:C:C5	2.24	0.72
3:CF:13:GLY:HA3	14:CQ:57:ARG:NH2	2.04	0.72
3:CF:86:VAL:O	3:CF:89:GLU:HB3	1.88	0.72
24:DA:1484:G:H2'	24:DA:1485:G:C5'	2.15	0.72
27:DE:203:LYS:O	27:DE:203:LYS:HD2	1.88	0.72
29:DG:146:TYR:O	29:DG:149:VAL:HG22	1.89	0.72
30:DH:153:LYS:HA	30:DH:153:LYS:HZ3	1.52	0.72
35:DP:20:ALA:HB3	44:DV:79:ARG:NH1	2.03	0.72
36:D0:3:HIS:O	36:D0:5:LYS:N	2.22	0.72
22:CB:29:C:H5'	22:CB:29:C:H6	1.54	0.72
1:AA:1054:C:N4	23:A1:22:A:H61	1.86	0.72
1:AA:1502:A:H2	1:AA:1505:G:H1	1.35	0.72
13:AP:94:ARG:HG3	13:AP:96:LEU:HG	1.70	0.72
18:AU:43:PHE:C	18:AU:51:LEU:HD12	2.14	0.72
24:BA:511:U:H5"	24:BA:512:G:OP2	1.88	0.72
28:BF:5:ALA:HB1	28:BF:125:LEU:HD21	1.71	0.72
28:BF:20:LEU:HD23	28:BF:21:ALA:N	2.04	0.72
28:BF:61:GLY:HA2	28:BF:77:ASP:HB3	1.71	0.72
29:BG:64:THR:OG1	29:BG:94:LEU:HD13	1.89	0.72
35:BP:108:GLY:HA3	44:BV:116:VAL:CG2	2.19	0.72
38:BR:102:ILE:HD13	38:BR:110:ILE:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:4:LYS:HA	43:BU:4:LYS:HE2	1.69	0.72
44:BV:28:MET:HG3	44:BV:37:VAL:HG11	1.70	0.72
44:BV:128:VAL:HG22	44:BV:129:SER:H	1.54	0.72
48:BX:24:LYS:HA	48:BX:24:LYS:HE3	1.71	0.72
53:B8:40:GLU:H	53:B8:43:GLN:HG3	1.54	0.72
1:CA:1346:A:C2	1:CA:1374:A:H5"	2.24	0.72
20:CW:47:GLY:O	20:CW:49:ALA:N	2.19	0.72
24:DA:1082:U:O4	24:DA:1083:U:H1'	1.90	0.72
24:DA:2011:U:H2'	24:DA:2012:G:H5'	1.69	0.72
30:DH:125:VAL:HG12	30:DH:126:PRO:HG3	1.71	0.72
30:DH:153:LYS:HG2	30:DH:162:ILE:H	1.52	0.72
32:DM:58:ASP:H	32:DM:60:ILE:HD11	1.53	0.72
37:DQ:83:LYS:HG2	37:DQ:109:GLY:N	2.04	0.72
37:DQ:83:LYS:HZ2	37:DQ:109:GLY:HA2	1.53	0.72
43:DU:52:SER:OG	43:DU:53:PRO:HD3	1.88	0.72
44:DV:9:TYR:HE2	44:DV:61:LEU:HD13	1.53	0.72
22:CB:18:C:H4'	22:CB:19:G:OP1	1.87	0.72
1:AA:8:A:N7	4:AG:209:ARG:HA	2.04	0.72
1:AA:81:G:N2	1:AA:89:U:H1'	2.04	0.72
1:AA:452:A:H62	1:AA:480:U:H3	1.35	0.72
3:AF:59:ARG:HG2	3:AF:64:VAL:HG12	1.71	0.72
24:BA:328:U:H4'	43:BU:68:HIS:CD2	2.24	0.72
24:BA:566:U:OP1	34:BO:29:LYS:HE2	1.89	0.72
24:BA:1019:U:N3	24:BA:1142(A):A:N6	2.38	0.72
24:BA:1249:U:O2	24:BA:1249:U:C2'	2.27	0.72
24:BA:2537:U:H2'	24:BA:2538:C:C6	2.24	0.72
26:BD:25:THR:HG21	26:BD:82:ILE:H	1.54	0.72
28:BF:132:VAL:HG22	28:BF:133:ASN:N	2.02	0.72
30:BH:152:ARG:HG3	30:BH:153:LYS:HG2	1.71	0.72
1:CA:321:A:H2	1:CA:332:G:H22	1.36	0.72
1:CA:503:C:OP2	12:CO:116:SER:HB3	1.87	0.72
1:CA:1037:C:H2'	1:CA:1038:C:C6	2.24	0.72
16:CS:3:LYS:C	16:CS:4:ILE:HD12	2.14	0.72
16:CS:20:VAL:HG21	16:CS:32:TYR:CG	2.24	0.72
24:DA:658:C:H2'	24:DA:659:C:C6	2.24	0.72
24:DA:1228:G:OP2	39:D1:16:LYS:NZ	2.19	0.72
24:DA:2656:U:C5	24:DA:2664:G:N2	2.56	0.72
24:DA:2791:C:H1'	24:DA:2792:G:N7	2.04	0.72
26:DD:35:LYS:HZ1	26:DD:65:ILE:HA	1.52	0.72
35:DP:90:VAL:CG1	35:DP:91:GLU:H	2.02	0.72
39:D1:98:LEU:HD23	39:D1:99:ALA:N	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:58:LEU:CD1	50:D5:60:VAL:HG12	2.19	0.72
53:D8:29:LYS:HD3	53:D8:44:LYS:HB2	1.71	0.72
1:AA:560:U:O2'	1:AA:561:U:OP2	2.04	0.72
1:AA:968:A:H5"	1:AA:969:A:OP2	1.90	0.72
1:AA:1004:A:H2'	1:AA:1025:U:O4	1.89	0.72
1:AA:1004:A:H8	1:AA:1004:A:O5'	1.73	0.72
5:AH:41:VAL:HG22	5:AH:113:ALA:HB2	1.70	0.72
6:AI:82:ARG:HB2	6:AI:85:VAL:CG2	2.19	0.72
7:AJ:97:GLN:NE2	7:AJ:101:LEU:HD11	2.04	0.72
9:AL:43:ALA:HA	9:AL:74:ILE:HD13	1.71	0.72
24:BA:2176:A:H2'	24:BA:2177:C:H6	1.54	0.72
26:BD:106:ILE:HD13	26:BD:106:ILE:C	2.15	0.72
38:BR:36:GLU:OE1	38:BR:41:ARG:HD2	1.89	0.72
40:B2:79:VAL:O	40:B2:80:GLN:HB2	1.89	0.72
10:CM:3:LYS:HD2	10:CM:77:PRO:HD3	1.70	0.72
14:CQ:24:CYS:HB2	14:CQ:40:CYS:N	2.03	0.72
24:DA:612:G:N3	24:DA:613:U:O2	2.22	0.72
24:DA:654(V):A:O2'	24:DA:655:A:H5'	1.89	0.72
24:DA:702:G:H5'	24:DA:702:G:C8	2.24	0.72
24:DA:1221:C:OP1	40:D2:68:LYS:HE2	1.89	0.72
24:DA:1884:A:H2'	24:DA:1885:A:C5'	2.18	0.72
24:DA:2667:C:H1'	30:DH:109:PHE:HD2	1.55	0.72
24:DA:2712:U:C2'	24:DA:2712(A):A:O5'	2.38	0.72
30:DH:152:ARG:O	30:DH:153:LYS:HD2	1.90	0.72
31:DK:74:ASN:CG	31:DK:75:LEU:H	1.97	0.72
32:DM:89:LYS:O	32:DM:93:THR:HG22	1.90	0.72
34:DO:15:ARG:O	34:DO:16:ARG:C	2.32	0.72
34:DO:126:VAL:CG1	34:DO:147:LEU:HD21	2.17	0.72
36:D0:117:VAL:HG22	36:D0:118:GLU:N	2.05	0.72
37:DQ:26:LEU:O	37:DQ:26:LEU:HD23	1.90	0.72
42:DT:41:ASN:N	42:DT:41:ASN:HD22	1.85	0.72
52:D7:8:ASN:HD22	52:D7:8:ASN:C	1.98	0.72
1:AA:353:A:H5'	1:AA:353:A:C8	2.17	0.72
1:AA:949:A:H1'	1:AA:1364:U:H3	1.55	0.72
5:AH:71:LEU:HD11	5:AH:114:GLY:HA3	1.71	0.72
24:BA:1332:G:N2	24:BA:1609:A:H2'	2.05	0.72
26:BD:172:TYR:HD1	26:BD:186:HIS:HA	1.54	0.72
31:BK:120:ILE:O	31:BK:121:LYS:HB2	1.88	0.72
33:BN:60:ALA:HA	33:BN:87:ILE:HG12	1.70	0.72
36:B0:33:ARG:HG2	36:B0:115:GLU:HG3	1.71	0.72
53:B8:50:LEU:O	53:B8:51:ALA:HB2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1324:A:H4'	1:CA:1362:C:H4'	1.71	0.72
8:CK:41:ARG:HH11	8:CK:41:ARG:CB	2.03	0.72
12:CO:126:LYS:HB2	12:CO:126:LYS:NZ	2.04	0.72
24:DA:2506:U:O2'	24:DA:2507:C:C5'	2.36	0.72
28:DF:124:LEU:HD12	28:DF:125:LEU:N	2.04	0.72
30:DH:54:ARG:HH12	30:DH:62:LYS:HG2	1.54	0.72
40:D2:39:LEU:O	40:D2:40:LEU:HD23	1.90	0.72
47:DW:27:GLU:OE1	47:DW:27:GLU:N	2.19	0.72
48:DX:56:VAL:HG12	48:DX:57:GLU:N	2.04	0.72
1:AA:673:G:H2'	1:AA:674:G:C8	2.24	0.72
7:AJ:5:ARG:HH21	7:AJ:7:ALA:HA	1.53	0.72
10:AM:30:SER:OG	10:AM:81:THR:HG22	1.89	0.72
10:AM:53:PRO:HA	14:AQ:42:ILE:CD1	2.20	0.72
24:BA:270(F):U:H2'	24:BA:270(G):C:C6	2.25	0.72
24:BA:654(R):C:C2	24:BA:654(R):C:C3'	2.72	0.72
24:BA:1098:A:H2'	24:BA:1099:G:H5"	1.72	0.72
29:BG:103:LEU:O	29:BG:107:LEU:HG	1.89	0.72
48:BX:44:ARG:O	48:BX:48:GLU:HG3	1.89	0.72
1:CA:1533:C:H2'	1:CA:1533:C:O2	1.88	0.72
2:CE:21:ARG:O	2:CE:23:ARG:HD3	1.90	0.72
4:CG:91:SER:HA	4:CG:94:LEU:HD13	1.70	0.72
6:CI:77:ARG:HB2	6:CI:77:ARG:HH11	1.53	0.72
24:DA:593:G:O3'	53:D8:61:LEU:HD22	1.89	0.72
24:DA:796:C:H2'	24:DA:797:C:C6	2.25	0.72
24:DA:1885:A:H2'	24:DA:1886:C:O4'	1.89	0.72
27:DE:14:ILE:HD11	38:DR:14:TYR:OH	1.90	0.72
1:AA:1036:G:H3'	1:AA:1037:C:C6	2.23	0.72
2:AE:48:MET:HA	2:AE:51:LEU:HD12	1.71	0.72
2:AE:97:TRP:CE2	2:AE:101:MET:HG3	2.25	0.72
13:AP:15:VAL:O	13:AP:19:LEU:HD23	1.89	0.72
24:BA:614:U:H5"	24:BA:615:G:OP1	1.90	0.72
24:BA:1947:C:C3'	24:BA:1948:G:H5"	2.20	0.72
30:BH:30:LYS:CD	30:BH:79:VAL:HA	2.15	0.72
31:BK:47:LEU:O	31:BK:50:ARG:HG2	1.90	0.72
31:BK:109:ILE:N	31:BK:109:ILE:HD13	2.04	0.72
34:BO:83:VAL:H	34:BO:115:LEU:HD12	1.54	0.72
1:CA:433:C:O2'	1:CA:434:U:H5'	1.90	0.72
3:CF:16:ARG:HB2	3:CF:16:ARG:NH1	2.04	0.72
12:CO:48:PRO:HD2	12:CO:49:ASN:H	1.52	0.72
20:CW:97:ALA:O	20:CW:99:LEU:HD13	1.89	0.72
24:DA:747:U:N3	50:D5:2:ALA:N	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1673:U:C2'	24:DA:1674:G:H5'	2.20	0.72
24:DA:1884:A:C2'	24:DA:1885:A:H5"	2.18	0.72
28:DF:32:LEU:HD12	28:DF:32:LEU:O	1.90	0.72
28:DF:157:VAL:HB	28:DF:194:MET:HB3	1.70	0.72
38:DR:117:ASP:O	38:DR:121:ILE:HG13	1.89	0.72
1:AA:1502:A:O2'	1:AA:1503:A:OP1	2.08	0.72
9:AL:24:GLY:O	9:AL:26:VAL:HG13	1.90	0.72
19:AV:11:VAL:HB	19:AV:16:LEU:HD11	1.72	0.72
24:BA:620:G:H4'	24:BA:621:A:C5'	2.19	0.72
24:BA:674:G:O2'	28:BF:74:ARG:HG3	1.88	0.72
24:BA:1273:U:H5'	24:BA:1274:A:OP1	1.89	0.72
24:BA:2094:G:OP1	31:BK:22:LYS:HD2	1.90	0.72
29:BG:129:GLY:O	29:BG:161:THR:HB	1.89	0.72
35:BP:54:MET:CE	35:BP:118:LEU:HD23	2.20	0.72
35:BP:127:ILE:HG22	35:BP:128:LYS:H	1.54	0.72
38:BR:55:ASN:H	38:BR:59:THR:CG2	2.03	0.72
43:BU:13:VAL:HG23	43:BU:73:ARG:C	2.13	0.72
5:CH:76:ILE:HB	5:CH:77:PRO:HD2	1.72	0.72
15:CR:79:ARG:O	15:CR:82:ILE:HG22	1.89	0.72
24:DA:273(F):C:H2'	24:DA:274:G:H5"	1.70	0.72
24:DA:1164:G:H2'	24:DA:1165:U:C6	2.24	0.72
27:DE:13:ARG:HA	27:DE:22:PRO:HA	1.71	0.72
27:DE:21:VAL:HB	27:DE:22:PRO:CB	2.18	0.72
27:DE:201:THR:HG22	27:DE:203:LYS:HB3	1.70	0.72
30:DH:30:LYS:HD2	30:DH:81:GLU:H	1.54	0.72
30:DH:128:PRO:HD2	30:DH:129:THR:H	1.55	0.72
31:DK:27:ARG:HD3	46:DZ:71:TYR:HE1	1.55	0.72
31:DK:133:HIS:CD2	31:DK:134:PRO:HD2	2.25	0.72
36:D0:85:PRO:O	36:D0:87:TYR:N	2.22	0.72
41:DS:70:TYR:HD2	41:DS:70:TYR:H	1.37	0.72
45:D3:43:THR:HG23	45:D3:43:THR:O	1.90	0.72
2:AE:208:ILE:HA	2:AE:211:ILE:HD12	1.72	0.72
14:AQ:44:LEU:O	14:AQ:44:LEU:HD12	1.90	0.72
22:AD:17(A):C:H2'	22:AD:17(A):C:O2	1.89	0.72
22:AD:46:G:H1'	22:AD:47:U:C5	2.25	0.72
24:BA:2311:A:H3'	24:BA:2312:U:H5	1.52	0.72
24:BA:2553:G:H3'	24:BA:2554:U:H5"	1.71	0.72
26:BD:144:ALA:HB3	26:BD:192:THR:HG23	1.71	0.72
26:BD:159:ALA:H	26:BD:196:VAL:HG11	1.55	0.72
29:BG:112:PRO:HG2	49:B4:37:SER:OG	1.89	0.72
30:BH:18:GLU:CB	30:BH:25:LYS:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:26:ASP:O	38:BR:49:VAL:HG12	1.90	0.72
42:BT:57:LEU:CD2	42:BT:78:LYS:HB2	2.17	0.72
52:B7:47:ARG:HD3	52:B7:47:ARG:N	2.04	0.72
1:CA:673:G:H2'	1:CA:674:G:C8	2.25	0.72
4:CG:156:GLU:HG2	4:CG:160:GLN:HE21	1.53	0.72
24:DA:1359:A:C8	24:DA:1359:A:C4'	2.72	0.72
24:DA:1668:A:N6	24:DA:1676:A:H61	1.87	0.72
27:DE:56:PRO:O	27:DE:57:LYS:HB2	1.89	0.72
39:D1:34:LYS:HE2	39:D1:34:LYS:HA	1.70	0.72
46:DZ:3:LYS:HD3	46:DZ:43:TYR:HD2	1.52	0.72
46:DZ:80:LEU:HB2	46:DZ:81:LYS:HE2	1.71	0.72
1:AA:563:A:H1'	1:AA:566:G:O2'	1.89	0.72
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.25	0.72
9:AL:25:LYS:HD3	9:AL:25:LYS:H	1.55	0.72
27:BE:58:ARG:O	27:BE:60:ASN:N	2.22	0.72
29:BG:67:LYS:HE2	49:B4:2:LYS:CG	2.17	0.72
30:BH:126:PRO:CB	30:BH:127:GLU:CA	2.67	0.72
32:BM:55:VAL:HB	32:BM:126:PRO:HA	1.71	0.72
34:BO:56:SER:O	34:BO:57:THR:HG22	1.89	0.72
42:BT:18:TYR:HA	42:BT:21:PHE:CD2	2.25	0.72
44:BV:10:ARG:CG	44:BV:36:LYS:HB3	2.20	0.72
1:CA:652:U:O4	1:CA:752:G:H2'	1.90	0.72
8:CK:10:LEU:HD23	8:CK:10:LEU:N	2.04	0.72
16:CS:45:THR:HG23	16:CS:46:PRO:HD2	1.70	0.72
24:DA:76:C:O2'	47:DW:62:THR:HG21	1.90	0.72
24:DA:371:A:H1'	24:DA:373:U:C6	2.25	0.72
24:DA:1728:G:H5'	24:DA:1729:A:OP2	1.90	0.72
27:DE:197:ILE:HD11	27:DE:199:ARG:HH12	1.55	0.72
28:DF:9:ILE:HD11	28:DF:125:LEU:HG	1.70	0.72
30:DH:26:VAL:CG1	30:DH:27:LYS:H	2.02	0.72
30:DH:132:ARG:HH11	30:DH:132:ARG:CB	1.97	0.72
46:DZ:76:ARG:HH11	46:DZ:76:ARG:HG2	1.53	0.72
52:D7:5:TRP:NE1	52:D7:7:PRO:HG3	2.04	0.72
52:D7:10:ARG:O	52:D7:14:LYS:HB2	1.89	0.72
1:AA:566:G:H4'	1:AA:567:G:OP1	1.89	0.71
1:AA:689:C:C2'	1:AA:690:G:H5'	2.20	0.71
19:AV:17:GLU:O	19:AV:21:GLU:HG2	1.90	0.71
24:BA:593:G:H1'	53:B8:4:MET:HE1	1.70	0.71
24:BA:848:G:H2'	24:BA:849:A:C8	2.24	0.71
24:BA:1681:G:HO2'	24:BA:1762:A:HO2'	1.38	0.71
24:BA:2392:A:H8	34:BO:61:ARG:HD2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2646:C:H2'	24:BA:2647:U:O4'	1.89	0.71
27:BE:151:TYR:HD2	27:BE:154:LYS:NZ	1.87	0.71
29:BG:81:LYS:HD3	29:BG:81:LYS:N	2.05	0.71
41:BS:12:ILE:HD13	41:BS:17:VAL:CG2	2.20	0.71
43:BU:91:GLU:HG3	43:BU:92:ASN:N	2.05	0.71
44:BV:26:GLY:HA2	44:BV:85:HIS:NE2	2.05	0.71
50:B5:55:ARG:O	50:B5:56:LYS:HB2	1.90	0.71
51:B6:42:TRP:CG	51:B6:43:CYS:H	2.08	0.71
20:CW:83:ARG:HA	20:CW:86:ARG:HB3	1.71	0.71
24:DA:879:G:H1	24:DA:898:C:N4	1.87	0.71
24:DA:2506:U:H2'	24:DA:2506:U:O2	1.88	0.71
25:DB:40:U:H3	25:DB:43:C:H5"	1.55	0.71
43:DU:57:GLN:HE21	43:DU:58:GLY:H	1.37	0.71
1:AA:20:U:H2'	1:AA:21:G:O4'	1.89	0.71
5:AH:11:ILE:HG22	5:AH:12:LEU:N	2.04	0.71
24:BA:1817:G:OP1	26:BD:88:ARG:NH2	2.23	0.71
24:BA:2657:A:O2'	30:BH:160:LYS:HE3	1.90	0.71
25:BB:74:U:H2'	25:BB:75:G:C5'	2.21	0.71
43:BU:75:ILE:HG12	43:BU:80:GLY:N	2.03	0.71
44:BV:103:ARG:HG3	44:BV:104:PHE:N	2.01	0.71
10:CM:98:ILE:HD12	10:CM:98:ILE:H	1.55	0.71
19:CV:40:ILE:HG13	19:CV:44:MET:SD	2.30	0.71
24:DA:270(J):G:H2'	24:DA:270(K):C:O4'	1.89	0.71
30:DH:84:SER:O	30:DH:85:LYS:HB2	1.89	0.71
33:DN:3:GLN:HB2	33:DN:4:PRO:HD2	1.72	0.71
35:DP:81:VAL:C	35:DP:82:ARG:HG2	2.15	0.71
50:D5:2:ALA:O	50:D5:3:LYS:HB2	1.88	0.71
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.25	0.71
4:AG:24:GLU:HA	4:AG:24:GLU:OE1	1.90	0.71
9:AL:48:GLU:HB3	9:AL:101:PHE:HE2	1.55	0.71
16:AS:22:THR:HA	16:AS:33:ILE:HG12	1.72	0.71
18:AU:84:LYS:HE2	18:AU:84:LYS:CA	2.19	0.71
24:BA:877:U:C2'	24:BA:878:A:H5"	2.15	0.71
24:BA:1061:U:H4'	24:BA:1070:A:O2'	1.90	0.71
24:BA:2518:A:H5"	24:BA:2519:U:OP2	1.89	0.71
25:BB:29:A:OP2	37:BQ:32:LEU:HG	1.89	0.71
29:BG:41:GLN:HE21	29:BG:60:LEU:HD12	1.53	0.71
34:BO:114:ILE:HD12	34:BO:125:VAL:HG21	1.71	0.71
34:BO:147:LEU:C	34:BO:148:LEU:HD23	2.16	0.71
38:BR:54:ARG:HA	38:BR:59:THR:HB	1.72	0.71
49:B4:2:LYS:HD3	49:B4:5:ILE:HG22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:498:A:O2'	1:CA:500:G:C8	2.43	0.71
1:CA:558:G:H2'	1:CA:559:A:C2	2.23	0.71
1:CA:595:G:C6	1:CA:641:U:H2'	2.25	0.71
10:CM:5:ARG:HG3	10:CM:71:LEU:HD11	1.72	0.71
20:CW:27:LYS:O	20:CW:30:LYS:HB3	1.89	0.71
20:CW:63:ILE:HG22	20:CW:77:ALA:HB1	1.73	0.71
24:DA:484:C:H2'	24:DA:485:C:H6	1.56	0.71
24:DA:2119:A:N6	24:DA:2170:A:H62	1.88	0.71
24:DA:2761:G:H5'	24:DA:2761:G:H8	1.53	0.71
31:DK:73:GLU:HG3	31:DK:136:VAL:HG23	1.72	0.71
37:DQ:67:ARG:O	37:DQ:71:ARG:HG3	1.90	0.71
39:D1:69:CYS:HB3	39:D1:106:PHE:HZ	1.55	0.71
53:D8:58:ILE:HD13	53:D8:61:LEU:HD11	1.72	0.71
53:D8:60:LEU:O	53:D8:63:PRO:HD2	1.90	0.71
2:AE:32:ILE:HG23	2:AE:33:TYR:N	2.05	0.71
5:AH:48:ALA:HB1	5:AH:49:PRO:HD2	1.73	0.71
9:AL:28:VAL:CG2	9:AL:63:ILE:H	2.03	0.71
16:AS:15:PRO:HB3	16:AS:17:TYR:HE1	1.55	0.71
24:BA:999:U:H2'	24:BA:1000:A:H5"	1.69	0.71
29:BG:122:PRO:HA	29:BG:125:PHE:HE1	1.56	0.71
30:BH:4:ILE:C	30:BH:6:ARG:H	1.97	0.71
34:BO:79:ARG:O	34:BO:111:ARG:HB2	1.89	0.71
37:BQ:10:ARG:NH2	37:BQ:91:PRO:HB2	2.04	0.71
40:B2:41:GLY:HA3	40:B2:46:VAL:HG21	1.72	0.71
44:BV:111:VAL:O	44:BV:111:VAL:CG1	2.38	0.71
1:CA:328:C:O2'	1:CA:329:A:OP2	2.06	0.71
1:CA:689:C:H2'	1:CA:690:G:H5'	1.72	0.71
2:CE:168:THR:HB	2:CE:192:SER:HB2	1.70	0.71
24:DA:1093:G:H5'	30:DH:170:ARG:CZ	2.20	0.71
24:DA:2032:G:O2'	27:DE:145:LYS:HD3	1.90	0.71
24:DA:2795:G:C3'	24:DA:2797:U:H5'	2.08	0.71
34:DO:85:LEU:HA	34:DO:88:LEU:HD22	1.71	0.71
51:D6:28:ARG:HB3	51:D6:30:THR:H	1.55	0.71
1:AA:191(F):U:H5'	1:AA:191(F):U:H6	1.56	0.71
2:AE:102:LEU:N	2:AE:102:LEU:HD12	2.04	0.71
4:AG:36:ARG:HD2	4:AG:38:TYR:HE2	1.54	0.71
7:AJ:113:GLU:HB2	7:AJ:119:ARG:CG	2.16	0.71
18:AU:73:ALA:HB3	18:AU:79:LEU:HD12	1.72	0.71
24:BA:644:A:H4'	24:BA:645:C:H5	1.55	0.71
24:BA:662:G:H5'	34:BO:15:ARG:HA	1.72	0.71
24:BA:1541:U:H2'	24:BA:1542:G:O4'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1729:A:O2'	24:BA:1730:U:H6	1.71	0.71
24:BA:1790:C:O2'	26:BD:209:ALA:HB2	1.90	0.71
24:BA:2341:G:H2'	24:BA:2342:C:H6	1.55	0.71
25:BB:43:C:H5'	49:B4:1:MET:N	2.05	0.71
29:BG:151:ALA:HB3	29:BG:153:ARG:NH1	2.06	0.71
30:BH:17:VAL:HG12	30:BH:18:GLU:N	2.03	0.71
34:BO:57:THR:HG23	34:BO:60:MET:HB2	1.72	0.71
34:BO:115:LEU:HB2	34:BO:131:SER:HB2	1.72	0.71
1:CA:853:G:O2'	1:CA:854:G:H5'	1.91	0.71
7:CJ:78:ARG:HH12	7:CJ:80:VAL:CG2	2.04	0.71
24:DA:230:U:OP2	24:DA:230:U:H6	1.73	0.71
24:DA:2356:C:O3'	45:D3:20:ARG:HD3	1.91	0.71
26:DD:263:ARG:NH1	26:DD:263:ARG:HB2	2.05	0.71
28:DF:185:ASP:OD1	28:DF:188:ARG:NH1	2.23	0.71
31:DK:99:GLU:HG2	31:DK:103:ARG:HH21	1.54	0.71
34:DO:58:THR:O	34:DO:61:ARG:CZ	2.38	0.71
37:DQ:103:GLU:O	37:DQ:106:ARG:HG3	1.90	0.71
38:DR:23:ARG:HB2	38:DR:24:PRO:HD2	1.71	0.71
41:DS:1:MET:HA	41:DS:1:MET:HE3	1.71	0.71
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.25	0.71
5:AH:152:ARG:HH11	5:AH:152:ARG:HG2	1.55	0.71
24:BA:1681:G:O2'	24:BA:1762:A:O2'	2.08	0.71
24:BA:1750:G:O2'	24:BA:1751:C:H5'	1.90	0.71
24:BA:2485:G:H5"	35:BP:46:GLN:NE2	2.06	0.71
25:BB:116:G:H4'	37:BQ:54:LEU:CD1	2.20	0.71
27:BE:16:ARG:HG3	27:BE:16:ARG:HH11	1.55	0.71
29:BG:44:GLY:O	29:BG:47:LYS:HB2	1.90	0.71
30:BH:89:ILE:HD13	30:BH:90:LYS:H	1.55	0.71
48:BX:52:HIS:CD2	48:BX:52:HIS:H	2.08	0.71
49:B4:22:ILE:HG12	49:B4:23:GLU:H	1.54	0.71
1:CA:376:G:OP1	16:CS:5:ARG:HB2	1.90	0.71
1:CA:568:G:O6	12:CO:5:PRO:HD3	1.91	0.71
2:CE:59:GLU:O	2:CE:62:ALA:HB3	1.90	0.71
24:DA:593:G:O2'	53:D8:61:LEU:CD1	2.38	0.71
24:DA:805:G:H5'	24:DA:806:C:OP2	1.90	0.71
24:DA:2015:A:C1'	50:D5:2:ALA:HA	2.18	0.71
24:DA:2657:A:C4	24:DA:2665:A:N6	2.58	0.71
27:DE:93:VAL:H	27:DE:95:ILE:HD12	1.54	0.71
37:DQ:83:LYS:HZ1	37:DQ:109:GLY:HA2	1.52	0.71
42:DT:12:VAL:HG12	42:DT:27:THR:O	1.90	0.71
44:DV:140:ASP:OD2	44:DV:156:LYS:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:35:ARG:O	4:AG:37:PRO:HD3	1.90	0.71
12:AO:126:LYS:HD3	12:AO:126:LYS:N	2.05	0.71
24:BA:871:U:O2	24:BA:871:U:H2'	1.91	0.71
24:BA:1943:U:H4'	24:BA:1944:U:O5'	1.89	0.71
24:BA:2127:G:H2'	24:BA:2128:C:H4'	1.71	0.71
24:BA:2657:A:C2	24:BA:2665:A:N7	2.58	0.71
28:BF:3:GLU:O	28:BF:19:GLU:HB2	1.91	0.71
31:BK:80:PRO:HA	31:BK:143:SER:HA	1.72	0.71
1:CA:84:U:HO2'	1:CA:85:U:H5	1.37	0.71
1:CA:788:U:H2'	1:CA:789:U:H5'	1.72	0.71
2:CE:126:GLU:CG	2:CE:129:GLU:HG3	2.20	0.71
11:CN:124:LYS:HD2	11:CN:125:PHE:CE1	2.25	0.71
24:DA:780:G:H21	24:DA:783:A:N6	1.88	0.71
24:DA:994:C:O2	40:D2:10:LYS:HE2	1.91	0.71
24:DA:2392:A:H8	34:DO:60:MET:HG3	1.56	0.71
1:AA:134:A:N6	16:AS:25:ARG:NH1	2.38	0.71
1:AA:678:U:H2'	1:AA:679:C:C6	2.26	0.71
1:AA:1160:G:H1	1:AA:1177:G:H21	1.39	0.71
2:AE:228:GLY:O	2:AE:230:VAL:N	2.24	0.71
3:AF:4:LYS:HZ2	3:AF:4:LYS:N	1.88	0.71
3:AF:4:LYS:O	3:AF:4:LYS:HD2	1.91	0.71
13:AP:117:VAL:O	13:AP:118:ALA:HB3	1.89	0.71
22:AD:72:A:C3'	22:AD:73:A:H5"	2.20	0.71
24:BA:89:G:H3'	24:BA:90:U:H5"	1.71	0.71
27:BE:7:VAL:HG21	38:BR:1:MET:CE	2.19	0.71
47:BW:46:GLN:C	47:BW:49:LYS:HZ2	1.98	0.71
53:B8:49:VAL:O	53:B8:50:LEU:CG	2.39	0.71
1:CA:686:U:H1'	11:CN:42:TRP:HE1	1.54	0.71
1:CA:1313:U:OP1	19:CV:5:LEU:HB2	1.91	0.71
24:DA:1050:A:H8	24:DA:2751:G:H2'	1.53	0.71
24:DA:1204:A:H2	24:DA:1241:A:N1	1.89	0.71
24:DA:2208:U:H1'	26:DD:151:LYS:HE2	1.72	0.71
24:DA:2309:A:N7	24:DA:2310:A:C2	2.59	0.71
34:DO:49:ARG:HD2	53:D8:58:ILE:CG2	2.20	0.71
41:DS:6:ILE:HG12	41:DS:104:THR:HG23	1.73	0.71
43:DU:89:PHE:C	43:DU:90:LEU:HD13	2.15	0.71
50:D5:40:LYS:HE2	50:D5:47:PRO:HD2	1.73	0.71
51:D6:36:LEU:HD13	51:D6:50:ARG:NH1	2.05	0.71
1:AA:731:G:OP1	1:AA:766:A:H1'	1.91	0.71
1:AA:1320:C:C2	19:AV:36:ARG:HD3	2.26	0.71
1:AA:1541:U:H3'	1:AA:1541:U:H6	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:91:PRO:CB	2:AE:154:LEU:HD21	2.21	0.71
2:AE:238:LEU:HD12	2:AE:239:VAL:H	1.55	0.71
5:AH:80:ILE:HG22	8:AK:104:ARG:CZ	2.21	0.71
24:BA:529:A:H5"	24:BA:530:G:OP1	1.91	0.71
24:BA:590:A:H2'	24:BA:591:C:C6	2.25	0.71
24:BA:621:A:H2'	24:BA:622:G:H5'	1.73	0.71
24:BA:2887:U:O2'	24:BA:2888:C:H5'	1.91	0.71
26:BD:85:ASP:HB2	26:BD:92:ILE:HD13	1.73	0.71
27:BE:200:GLU:HG2	27:BE:201:THR:N	2.05	0.71
30:BH:32:GLU:HG2	30:BH:34:GLU:H	1.56	0.71
30:BH:41:MET:HE3	30:BH:64:LEU:HD12	1.73	0.71
30:BH:153:LYS:HB3	30:BH:161:GLY:HA2	1.73	0.71
1:CA:991:U:O2	1:CA:993:G:C8	2.44	0.71
1:CA:1224:G:C6	1:CA:1322:C:H1'	2.26	0.71
2:CE:132:LYS:HA	2:CE:135:GLN:HB2	1.71	0.71
2:CE:214:ILE:HA	2:CE:217:ARG:HH21	1.55	0.71
3:CF:123:GLN:O	3:CF:128:PHE:HB2	1.91	0.71
6:CI:25:ILE:HD13	6:CI:28:ARG:NH1	2.05	0.71
15:CR:71:GLN:HB2	15:CR:78:TYR:CD1	2.25	0.71
20:CW:57:ARG:HD3	20:CW:102:GLY:O	1.90	0.71
24:DA:2585:U:H2'	24:DA:2585:U:O2	1.90	0.71
27:DE:174:ASP:CG	27:DE:175:VAL:H	1.98	0.71
47:DW:7:ARG:HH11	47:DW:7:ARG:HG3	1.55	0.71
51:D6:29:ASN:OD1	51:D6:30:THR:HG22	1.91	0.71
1:AA:1205:U:H1'	3:AF:195:VAL:CG2	2.20	0.71
7:AJ:78:ARG:HH21	7:AJ:156:TRP:HZ2	1.38	0.71
24:BA:458:G:H3'	52:B7:38:GLY:O	1.91	0.71
24:BA:1149:G:H2'	24:BA:1150:C:C6	2.26	0.71
24:BA:2360:A:OP1	53:B8:50:LEU:HD23	1.90	0.71
24:BA:2759:G:H5'	24:BA:2759:G:H8	1.56	0.71
26:BD:28:GLU:HB2	26:BD:29:PRO:HD3	1.71	0.71
27:BE:201:THR:C	27:BE:202:LYS:HD3	2.16	0.71
29:BG:36:LYS:HE2	29:BG:95:ARG:NH2	2.06	0.71
43:BU:63:LYS:HA	43:BU:63:LYS:NZ	2.06	0.71
1:CA:1504:G:O2'	1:CA:1505:G:OP2	2.09	0.71
2:CE:172:ILE:H	2:CE:172:ILE:HD12	1.56	0.71
10:CM:81:THR:C	10:CM:83:GLU:H	1.99	0.71
11:CN:48:ILE:HD12	11:CN:63:LEU:HB3	1.71	0.71
15:CR:87:ILE:HG22	15:CR:88:ARG:N	2.00	0.71
24:DA:592:G:H21	53:D8:4:MET:CE	2.04	0.71
24:DA:811:U:O2	24:DA:1250:G:H3'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2015:A:N3	50:D5:2:ALA:N	2.39	0.71
24:DA:2395:C:O2'	46:DZ:30:VAL:HG12	1.91	0.71
22:CB:49:C:O2'	22:CB:50:G:OP2	2.08	0.71
1:AA:173:U:O2'	1:AA:174:C:OP1	2.08	0.70
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.26	0.70
7:AJ:113:GLU:CB	7:AJ:119:ARG:HG2	2.15	0.70
9:AL:103:THR:HG22	9:AL:105:ASP:H	1.55	0.70
13:AP:35:GLU:HG3	13:AP:36:LYS:N	2.04	0.70
16:AS:49:LEU:HD12	16:AS:50:LYS:N	2.05	0.70
24:BA:1796:U:H2'	24:BA:1797:C:H6	1.54	0.70
32:BM:62:VAL:HG22	32:BM:66:LYS:HG3	1.73	0.70
1:CA:404:U:H2'	1:CA:405:U:C6	2.25	0.70
1:CA:1278:U:H5"	1:CA:1279:A:C8	2.26	0.70
24:DA:518:G:C4'	41:DS:18:ARG:HH12	2.01	0.70
24:DA:2210:G:H3'	24:DA:2211:G:H8	1.55	0.70
26:DD:244:ARG:HB2	26:DD:245:PRO:HD2	1.71	0.70
30:DH:59:ARG:HG3	30:DH:59:ARG:HH11	1.56	0.70
30:DH:80:SER:O	30:DH:81:GLU:HB2	1.89	0.70
31:DK:13:GLY:HA3	31:DK:17:GLN:CD	2.15	0.70
33:DN:113:LYS:HG2	33:DN:117:LEU:HD11	1.71	0.70
1:AA:752:G:H1'	1:AA:754:C:H41	1.56	0.70
3:AF:84:ILE:H	3:AF:87:LEU:HD23	1.55	0.70
24:BA:386:G:O2'	24:BA:387:U:OP1	2.08	0.70
24:BA:639:U:H2'	24:BA:640:C:C6	2.26	0.70
24:BA:660:G:H21	34:BO:12:ALA:HB2	1.55	0.70
27:BE:32:PRO:HD2	27:BE:51:PHE:H	1.55	0.70
34:BO:36:LYS:HB2	34:BO:36:LYS:HZ3	1.52	0.70
44:BV:145:GLU:OE2	44:BV:146:ILE:HG12	1.91	0.70
45:B3:49:LYS:O	45:B3:50:ASN:HB2	1.91	0.70
49:B4:37:SER:C	49:B4:39:CYS:H	1.99	0.70
1:CA:1019:C:C2'	1:CA:1020:U:H5'	2.21	0.70
3:CF:152:ILE:HB	3:CF:199:LYS:HB2	1.73	0.70
20:CW:23:ARG:CA	20:CW:26:ASN:HD21	2.04	0.70
24:DA:881:G:C3'	24:DA:882:G:H5"	2.20	0.70
24:DA:1060:U:O2	24:DA:1088:A:H1'	1.90	0.70
34:DO:20:GLY:HA2	34:DO:27:HIS:O	1.91	0.70
35:DP:134:ARG:CZ	44:DV:122:ARG:NH2	2.55	0.70
45:D3:25:ARG:HD2	45:D3:29:GLN:HE22	1.55	0.70
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.54	0.70
1:AA:1363:A:H4'	1:AA:1364:U:C5'	2.18	0.70
4:AG:33:MET:HE3	4:AG:37:PRO:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1678:G:N2	24:BA:1989:G:H22	1.89	0.70
24:BA:1906:G:C5	24:BA:1929:G:N2	2.59	0.70
24:BA:2146:C:H5"	24:BA:2147:G:OP1	1.91	0.70
25:BB:40:U:H3	25:BB:43:C:H5"	1.56	0.70
30:BH:70:THR:HA	30:BH:73:ALA:HB3	1.72	0.70
30:BH:108:GLY:HA3	30:BH:152:ARG:NH2	2.05	0.70
34:BO:62:LEU:HD22	34:BO:63:PRO:N	2.05	0.70
41:BS:40:ASN:O	41:BS:41:LYS:HG2	1.91	0.70
43:BU:35:TYR:CD1	43:BU:69:ALA:HB3	2.27	0.70
44:BV:118:GLN:CD	44:BV:174:VAL:H	1.98	0.70
44:BV:165:VAL:HG22	44:BV:166:SER:N	2.05	0.70
51:B6:28:ARG:CZ	51:B6:30:THR:HG23	2.21	0.70
52:B7:45:ALA:O	52:B7:46:VAL:HG23	1.92	0.70
15:CR:65:ARG:HB2	15:CR:65:ARG:HH11	1.56	0.70
24:DA:229:A:O2'	24:DA:230:U:P	2.48	0.70
24:DA:372:G:O2'	24:DA:373:U:P	2.48	0.70
24:DA:1503:U:H2'	24:DA:1504:C:C6	2.25	0.70
24:DA:2635:C:OP1	27:DE:78:LEU:HD12	1.91	0.70
27:DE:14:ILE:HG12	27:DE:15:PHE:N	2.06	0.70
28:DF:66:PRO:O	28:DF:67:GLN:HB3	1.89	0.70
30:DH:86:GLU:CG	30:DH:165:ALA:H	1.94	0.70
37:DQ:42:ASP:O	37:DQ:43:GLU:HB2	1.90	0.70
1:AA:1075:C:OP1	2:AE:179:LYS:HE2	1.91	0.70
2:AE:24:TRP:H	2:AE:24:TRP:CD1	2.08	0.70
4:AG:119:GLN:HG2	4:AG:123:HIS:CD2	2.27	0.70
24:BA:1188:U:O2'	24:BA:1189:A:H5'	1.91	0.70
24:BA:1255:U:H5"	24:BA:1256:G:H5"	1.71	0.70
24:BA:1384:A:N3	24:BA:1405:U:H1'	2.06	0.70
27:BE:131:ALA:HB1	27:BE:135:HIS:CE1	2.27	0.70
29:BG:173:LEU:HA	29:BG:176:LEU:HD12	1.74	0.70
32:BM:133:GLN:O	32:BM:134:ARG:HB3	1.89	0.70
34:BO:64:LYS:HG3	53:B8:30:ARG:HH22	1.56	0.70
1:CA:41:G:H2'	1:CA:42:G:H8	1.56	0.70
1:CA:65:U:C5'	1:CA:66:G:OP1	2.39	0.70
1:CA:236:G:H5"	17:CT:42:TYR:OH	1.91	0.70
2:CE:187:LEU:HD11	2:CE:204:ASN:O	1.91	0.70
5:CH:82:VAL:HG12	5:CH:83:GLU:N	2.06	0.70
6:CI:72:VAL:CG2	6:CI:90:VAL:HG11	2.20	0.70
9:CL:15:ALA:HA	9:CL:64:THR:O	1.91	0.70
12:CO:24:VAL:O	12:CO:24:VAL:HG12	1.91	0.70
13:CP:4:ILE:N	13:CP:9:ILE:HG21	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CV:64:GLU:CD	49:D4:55:ARG:HH22	2.00	0.70
24:DA:1359:A:C8	24:DA:1359:A:C5'	2.74	0.70
26:DD:43:ARG:HB3	26:DD:54:ARG:HB2	1.73	0.70
28:DF:178:PRO:HG2	28:DF:179:GLU:OE2	1.90	0.70
30:DH:103:LEU:HD12	30:DH:131:VAL:HG21	1.73	0.70
31:DK:92:VAL:HG13	31:DK:120:ILE:CG2	2.16	0.70
38:DR:41:ARG:NH2	38:DR:43:GLN:HB2	2.06	0.70
39:D1:65:ILE:HG12	39:D1:96:ALA:HB1	1.73	0.70
1:AA:3:G:H5"	1:AA:4:U:OP1	1.91	0.70
2:AE:24:TRP:CZ3	2:AE:26:PRO:HA	2.26	0.70
5:AH:50:GLU:HG3	5:AH:52:PRO:HD2	1.72	0.70
26:BD:27:THR:C	26:BD:29:PRO:HD2	2.16	0.70
26:BD:43:ARG:NH1	26:BD:49:ILE:HG22	2.07	0.70
26:BD:134:ARG:HG3	26:BD:135:PHE:CE2	2.26	0.70
30:BH:27:LYS:C	30:BH:27:LYS:HE3	2.16	0.70
31:BK:144:VAL:HG12	31:BK:145:VAL:HG22	1.73	0.70
38:BR:19:LEU:HD13	38:BR:86:ILE:HG21	1.71	0.70
43:BU:11:ASP:O	43:BU:27:VAL:HG22	1.92	0.70
51:B6:13:CYS:H	51:B6:22:ALA:CB	2.05	0.70
1:CA:1007:C:H2'	1:CA:1008:C:C5'	2.11	0.70
1:CA:1314:C:H2'	1:CA:1315:U:H6	1.53	0.70
13:CP:121:LYS:HE2	13:CP:121:LYS:HA	1.71	0.70
24:DA:27:G:H22	24:DA:512:G:C2'	2.04	0.70
24:DA:95:G:H5'	47:DW:46:GLN:OE1	1.89	0.70
27:DE:28:ALA:HB3	27:DE:93:VAL:HG22	1.72	0.70
28:DF:101:LEU:O	28:DF:106:ARG:NH1	2.23	0.70
28:DF:178:PRO:HB2	28:DF:201:VAL:HG11	1.73	0.70
30:DH:89:ILE:CD1	30:DH:129:THR:HB	2.20	0.70
39:D1:66:ASN:HB2	39:D1:76:TYR:HB2	1.72	0.70
40:D2:22:VAL:HG12	40:D2:23:GLU:N	2.06	0.70
46:DZ:7:ILE:CD1	46:DZ:70:VAL:HG22	2.22	0.70
1:AA:818:G:H3'	1:AA:819:A:C5'	2.21	0.70
1:AA:998(A):C:H2'	1:AA:999:U:H5"	1.73	0.70
1:AA:1116:C:H2'	1:AA:1117:G:H5"	1.74	0.70
1:AA:1267:C:O2	1:AA:1267:C:H2'	1.91	0.70
24:BA:84:A:C5'	43:BU:8:LYS:HD2	2.19	0.70
24:BA:104:U:H3'	24:BA:105:C:H6	1.57	0.70
24:BA:1309:G:H4'	52:B7:7:PRO:HB2	1.72	0.70
24:BA:2020:A:P	39:B1:27:LEU:HD23	2.32	0.70
24:BA:2211:G:O2'	24:BA:2212:A:OP2	2.06	0.70
31:BK:92:VAL:HG12	31:BK:97:ILE:HD12	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:91:LEU:H	33:BN:91:LEU:HD22	1.57	0.70
38:BR:8:LYS:C	38:BR:10:VAL:H	1.99	0.70
7:CJ:97:GLN:HE21	7:CJ:101:LEU:HD11	1.55	0.70
8:CK:49:GLU:HG3	8:CK:51:VAL:HG13	1.74	0.70
24:DA:1657:C:H2'	24:DA:1658:C:C6	2.27	0.70
24:DA:2638:G:O2'	24:DA:2639:A:H8	1.74	0.70
24:DA:2680:C:H5'	27:DE:189:PRO:HA	1.72	0.70
28:DF:164:ARG:HG3	28:DF:175:THR:OG1	1.92	0.70
30:DH:152:ARG:O	30:DH:153:LYS:CB	2.39	0.70
35:DP:32:TYR:CD1	35:DP:133:ARG:HA	2.27	0.70
1:AA:946:A:H2'	1:AA:947:G:C8	2.26	0.70
2:AE:164:VAL:HG12	2:AE:165:VAL:N	2.06	0.70
7:AJ:140:ASP:HA	7:AJ:143:ARG:HH11	1.57	0.70
8:AK:25:ASP:HA	8:AK:59:LEU:O	1.91	0.70
13:AP:76:ALA:HA	13:AP:79:LYS:HB2	1.72	0.70
15:AR:53:HIS:O	15:AR:56:LEU:HB3	1.91	0.70
23:A1:8:A:H5'	23:A1:9:G:OP2	1.90	0.70
24:BA:226:G:H1'	24:BA:228:A:H61	1.56	0.70
24:BA:987:G:O2'	24:BA:1000:A:N3	2.25	0.70
24:BA:1179:C:C3'	24:BA:1180:C:H5"	2.22	0.70
24:BA:2467:C:H4'	35:BP:123:HIS:CD2	2.27	0.70
24:BA:2876:G:H1'	38:BR:3:ARG:NH1	2.07	0.70
25:BB:57:A:H4'	29:BG:30:GLU:HG3	1.72	0.70
25:BB:81:G:C2	25:BB:82:G:N7	2.60	0.70
27:BE:95:ILE:H	27:BE:95:ILE:CD1	2.03	0.70
28:BF:83:PHE:O	28:BF:85:GLY:N	2.25	0.70
31:BK:75:LEU:HD22	31:BK:77:LEU:HD21	1.74	0.70
35:BP:51:ARG:HG3	35:BP:52:VAL:N	2.06	0.70
51:B6:15:GLU:CD	51:B6:44:ARG:HH12	2.00	0.70
51:B6:39:TYR:HB3	51:B6:41:PRO:HD2	1.72	0.70
1:CA:406:G:H5"	4:CG:5:ILE:HD13	1.71	0.70
1:CA:411:A:C4	1:CA:413:G:H1'	2.27	0.70
1:CA:439:A:OP2	1:CA:493:G:N1	2.23	0.70
1:CA:1363:A:H4'	1:CA:1364:U:OP1	1.91	0.70
4:CG:190:ASP:HB3	4:CG:193:ASP:OD1	1.91	0.70
10:CM:6:ILE:HG13	10:CM:72:VAL:O	1.91	0.70
10:CM:49:VAL:O	10:CM:60:ARG:HB3	1.90	0.70
24:DA:1061:U:H4'	24:DA:1070:A:C1'	2.21	0.70
24:DA:2319:G:H4'	24:DA:2320:A:OP1	1.91	0.70
24:DA:2791:C:O2	24:DA:2792:G:N7	2.24	0.70
30:DH:154:PRO:HG2	30:DH:162:ILE:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DS:29:LEU:HD21	41:DS:33:ARG:CZ	2.22	0.70
50:D5:40:LYS:HE2	50:D5:47:PRO:CD	2.21	0.70
51:D6:25:LYS:HD2	53:D8:34:TRP:HZ2	1.56	0.70
1:AA:4:U:O2	1:AA:4:U:H2'	1.90	0.70
1:AA:675:A:H1'	11:AN:116:HIS:CD2	2.27	0.70
2:AE:62:ALA:C	2:AE:64:ARG:H	1.99	0.70
2:AE:171:ALA:HA	2:AE:174:VAL:CG2	2.22	0.70
6:AI:37:VAL:HA	6:AI:65:VAL:HG12	1.72	0.70
11:AN:29:ILE:HG22	11:AN:44:SER:HB2	1.72	0.70
15:AR:87:ILE:CG2	15:AR:88:ARG:H	1.97	0.70
24:BA:389:G:H22	34:BO:72:PRO:CD	2.05	0.70
24:BA:1180:C:H2'	24:BA:1181:C:H6	1.55	0.70
24:BA:1266:G:O2'	24:BA:1267:U:OP2	2.09	0.70
42:BT:43:VAL:HG23	42:BT:51:VAL:HG21	1.73	0.70
47:BW:26:ARG:HH11	47:BW:26:ARG:HB3	1.57	0.70
53:B8:16:ILE:HB	53:B8:65:GLU:OXT	1.92	0.70
1:CA:1048:G:OP1	14:CQ:3:ARG:HB3	1.91	0.70
2:CE:162:ILE:HD11	2:CE:184:VAL:HG13	1.74	0.70
8:CK:87:SER:HB2	8:CK:93:VAL:HB	1.73	0.70
17:CT:4:LYS:CE	17:CT:6:LEU:HD21	2.21	0.70
22:CC:61:C:O2'	22:CC:62:C:H5'	1.92	0.70
24:DA:415:A:H2'	24:DA:416:C:C6	2.26	0.70
24:DA:888:C:C3'	24:DA:889:C:H4'	2.19	0.70
24:DA:1021:A:C8	24:DA:1021:A:C3'	2.73	0.70
24:DA:1699:G:O3'	24:DA:1700:A:H4'	1.91	0.70
1:AA:152:A:N6	1:AA:170:U:C2	2.60	0.70
7:AJ:18:TYR:HD2	7:AJ:59:LEU:HD13	1.57	0.70
7:AJ:47:CYS:O	7:AJ:50:ILE:HB	1.92	0.70
12:AO:111:LYS:O	12:AO:112:ASP:HB2	1.91	0.70
23:A1:24:A:H2'	23:A1:25:A:C8	2.27	0.70
24:BA:626:U:H3	34:BO:105:LEU:HG	1.57	0.70
24:BA:1928:A:C2'	24:BA:1929:G:H5'	2.22	0.70
32:BM:112:LEU:HD23	32:BM:113:GLY:H	1.56	0.70
39:B1:24:TYR:O	39:B1:29:SER:HB3	1.91	0.70
40:B2:1:MET:N	40:B2:16:PRO:HD3	2.07	0.70
40:B2:44:LYS:C	40:B2:46:VAL:H	1.99	0.70
43:BU:17:SER:CB	43:BU:71:LYS:HD2	2.21	0.70
51:B6:15:GLU:HG2	51:B6:47:THR:HG21	1.74	0.70
1:CA:375:U:H4'	16:CS:17:TYR:HE2	1.56	0.70
1:CA:1023:G:C3'	1:CA:1024:G:H5"	2.22	0.70
1:CA:1502:A:H2	1:CA:1505:G:H1	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:95:GLN:HE21	2:CE:147:LYS:HE2	1.56	0.70
10:CM:49:VAL:CG2	14:CQ:41:ARG:HB2	2.21	0.70
13:CP:121:LYS:HE2	13:CP:121:LYS:CA	2.21	0.70
24:DA:860:U:C5	24:DA:917:A:C2	2.79	0.70
24:DA:2065:C:H2'	24:DA:2066:C:C6	2.26	0.70
24:DA:2127:G:N2	24:DA:2173:A:H1'	2.07	0.70
25:DB:15:A:H5'	25:DB:16:G:H8	1.57	0.70
27:DE:103:ASP:OD1	27:DE:201:THR:HA	1.92	0.70
28:DF:185:ASP:HA	28:DF:188:ARG:CD	2.20	0.70
29:DG:41:GLN:HE21	29:DG:60:LEU:HD12	1.56	0.70
31:DK:92:VAL:CG1	31:DK:120:ILE:HG23	2.18	0.70
40:D2:51:VAL:HG12	40:D2:52:VAL:N	2.06	0.70
42:DT:57:LEU:HD11	42:DT:78:LYS:HD2	1.73	0.70
1:AA:742:G:OP2	15:AR:35:ARG:NH2	2.25	0.70
2:AE:177:ALA:C	2:AE:179:LYS:H	2.00	0.70
4:AG:68:TYR:CE2	4:AG:97:LEU:HD22	2.27	0.70
4:AG:175:SER:HB3	4:AG:186:LEU:HD21	1.72	0.70
24:BA:654:A:H2'	24:BA:654:A:N3	2.07	0.70
24:BA:1639:U:O2'	24:BA:1640:C:H5"	1.92	0.70
25:BB:90:C:OP1	35:BP:16:ARG:HG3	1.92	0.70
31:BK:76:THR:H	31:BK:77:LEU:HD23	1.57	0.70
1:CA:1291:G:H4'	9:CL:39:GLY:HA3	1.74	0.70
10:CM:38:ILE:O	10:CM:38:ILE:HG13	1.92	0.70
20:CW:50:GLU:HG3	20:CW:51:GLU:H	1.54	0.70
24:DA:1026:U:O2'	24:DA:1027:A:C5'	2.40	0.70
46:DZ:82:LEU:HD12	46:DZ:83:GLU:CA	2.21	0.70
51:D6:7:ILE:C	51:D6:9:LEU:H	1.98	0.70
1:AA:629:G:H2'	1:AA:630:G:C8	2.27	0.69
3:AF:71:ALA:O	3:AF:72:LYS:HD2	1.92	0.69
4:AG:12:CYS:SG	4:AG:21:LEU:HD22	2.31	0.69
10:AM:33:GLN:H	10:AM:75:ILE:HG12	1.56	0.69
20:AW:72:LEU:HD11	20:AW:80:ARG:HD3	1.72	0.69
26:BD:263:ARG:HB2	26:BD:263:ARG:NH1	2.06	0.69
34:BO:59:LEU:HD22	34:BO:60:MET:H	1.57	0.69
35:BP:2:LEU:HD12	35:BP:2:LEU:N	2.07	0.69
44:BV:157:LEU:HB3	44:BV:161:VAL:HG11	1.72	0.69
1:CA:93:U:H2'	1:CA:95:G:O4'	1.92	0.69
1:CA:980:C:H5"	1:CA:981:U:C5	2.26	0.69
1:CA:1006:C:H2'	1:CA:1007:C:H6	1.57	0.69
1:CA:1116:C:H2'	1:CA:1117:G:H5'	1.73	0.69
5:CH:78:HIS:CD2	8:CK:104:ARG:HG2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:483:A:C5'	43:DU:49:VAL:HG22	2.20	0.69
24:DA:1083:U:O2'	24:DA:1085:A:H5'	1.93	0.69
24:DA:2127:G:H21	24:DA:2173:A:H1'	1.56	0.69
24:DA:2131:G:C4'	24:DA:2132:U:H4'	2.19	0.69
24:DA:2199:A:H5"	24:DA:2205:C:H5	1.57	0.69
33:DN:63:VAL:HG13	33:DN:84:ALA:HA	1.73	0.69
34:DO:83:VAL:CG1	34:DO:112:LEU:HD21	2.21	0.69
34:DO:114:ILE:HD13	34:DO:125:VAL:HG21	1.72	0.69
35:DP:43:THR:OG1	35:DP:46:GLN:HB2	1.91	0.69
1:AA:932:C:H4'	7:AJ:4:ARG:NH2	2.06	0.69
2:AE:186:ALA:O	2:AE:201:ILE:HB	1.91	0.69
2:AE:194:PRO:O	2:AE:196:LEU:N	2.25	0.69
3:AF:138:VAL:HG22	3:AF:151:VAL:HG23	1.75	0.69
5:AH:57:LYS:HE2	5:AH:61:TYR:HE2	1.57	0.69
15:AR:64:ARG:HH11	15:AR:64:ARG:HG2	1.55	0.69
19:AV:36:ARG:HH11	19:AV:71:LEU:C	2.00	0.69
24:BA:9:U:H5'	32:BM:115:ARG:HH22	1.55	0.69
24:BA:49:A:H4'	24:BA:50:U:O5'	1.92	0.69
24:BA:500:G:N2	24:BA:502:A:H3'	2.07	0.69
24:BA:1853:A:H2'	24:BA:1854:A:C8	2.27	0.69
24:BA:2425:A:H4'	24:BA:2426:A:O5'	1.91	0.69
27:BE:48:GLN:CG	27:BE:78:LEU:HD12	2.22	0.69
28:BF:116:ASP:O	28:BF:120:GLU:HG3	1.92	0.69
32:BM:134:ARG:HG2	32:BM:134:ARG:O	1.90	0.69
36:B0:73:VAL:O	36:B0:76:VAL:HG12	1.91	0.69
43:BU:95:LYS:HB2	43:BU:100:ALA:HA	1.72	0.69
1:CA:377:G:O2'	1:CA:378:G:H5'	1.91	0.69
1:CA:684:A:H2'	1:CA:685:G:H8	1.58	0.69
1:CA:1450:U:O2'	1:CA:1451:A:OP2	2.10	0.69
19:CV:51:VAL:O	19:CV:57:HIS:HA	1.92	0.69
24:DA:897:C:H6	24:DA:897:C:O5'	1.74	0.69
24:DA:2277:G:H2'	24:DA:2278:A:H5'	1.73	0.69
26:DD:65:ILE:HD13	26:DD:65:ILE:O	1.91	0.69
29:DG:131:TYR:O	29:DG:159:VAL:HG13	1.92	0.69
34:DO:64:LYS:HB2	53:D8:25:MET:CG	2.22	0.69
37:DQ:54:LEU:HD13	37:DQ:54:LEU:O	1.91	0.69
40:D2:41:GLY:HA3	40:D2:46:VAL:HG11	1.74	0.69
44:DV:121:HIS:O	44:DV:122:ARG:HB2	1.92	0.69
45:D3:27:GLU:HG3	45:D3:68:GLU:HA	1.72	0.69
46:DZ:82:LEU:CD1	46:DZ:83:GLU:C	2.64	0.69
1:AA:752:G:H1'	1:AA:754:C:N4	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:965:A:O2'	1:AA:966:G:H5'	1.92	0.69
1:AA:1059:C:O2	10:AM:53:PRO:HG3	1.92	0.69
1:AA:1152:A:H5"	10:AM:13:HIS:CD2	2.27	0.69
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.58	0.69
2:AE:87:ARG:O	2:AE:87:ARG:HD2	1.92	0.69
20:AW:100:ILE:H	20:AW:100:ILE:CD1	2.05	0.69
24:BA:2426:A:H4'	24:BA:2427:C:OP2	1.92	0.69
24:BA:2720:U:N3	24:BA:2873:A:H2	1.90	0.69
28:BF:114:VAL:HG21	28:BF:202:PHE:CE1	2.27	0.69
30:BH:7:LEU:HD22	30:BH:69:ARG:HG2	1.74	0.69
33:BN:7:TYR:HE1	33:BN:20:MET:HE3	1.57	0.69
35:BP:12:GLN:HE21	35:BP:73:PRO:CD	2.06	0.69
41:BS:6:ILE:HG12	41:BS:104:THR:HG23	1.72	0.69
47:BW:15:LYS:HA	47:BW:67:LYS:HZ1	1.57	0.69
53:B8:49:VAL:HG12	53:B8:50:LEU:N	2.07	0.69
1:CA:1321:C:C5'	1:CA:1322:C:H5"	2.22	0.69
2:CE:101:MET:HA	2:CE:108:ILE:CG1	2.15	0.69
3:CF:16:ARG:HD2	3:CF:54:ARG:NH2	2.03	0.69
24:DA:1045:A:H4'	24:DA:1046:A:C5'	2.22	0.69
25:DB:3:C:H2'	25:DB:4:C:H6	1.56	0.69
26:DD:65:ILE:HD11	26:DD:67:PHE:CD1	2.27	0.69
28:DF:65:TRP:HZ3	28:DF:73:ALA:O	1.74	0.69
31:DK:6:LEU:HD13	31:DK:36:ALA:HA	1.74	0.69
33:DN:8:LEU:N	33:DN:8:LEU:HD22	2.07	0.69
46:DZ:53:VAL:HG22	46:DZ:74:VAL:HG13	1.74	0.69
1:AA:109:A:H2'	1:AA:326:G:H21	1.57	0.69
1:AA:350:G:H5'	1:AA:351:G:OP2	1.93	0.69
1:AA:1171:G:H2'	1:AA:1172:C:H6	1.57	0.69
4:AG:12:CYS:CB	4:AG:21:LEU:HD22	2.22	0.69
6:AI:14:LEU:HD22	6:AI:18:GLN:HB2	1.74	0.69
7:AJ:78:ARG:NH2	7:AJ:156:TRP:HZ2	1.91	0.69
10:AM:48:THR:HA	10:AM:62:HIS:CB	2.20	0.69
16:AS:8:ARG:NH2	16:AS:15:PRO:HG3	2.07	0.69
22:AC:17(A):C:H4'	22:AC:18:G:OP1	1.91	0.69
24:BA:95:G:H4'	47:BW:46:GLN:HB3	1.75	0.69
24:BA:644:A:H4'	24:BA:645:C:C5	2.27	0.69
24:BA:818:G:H5'	24:BA:819:A:OP1	1.92	0.69
24:BA:1430:C:H2'	24:BA:1431:U:C6	2.27	0.69
24:BA:1885:A:H5"	24:BA:1886:C:H5	1.58	0.69
24:BA:2285:C:N4	51:B6:25:LYS:HE2	2.06	0.69
28:BF:150:GLY:HA2	28:BF:172:TRP:CE3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:109:ILE:HD13	31:BK:109:ILE:H	1.57	0.69
31:BK:141:LYS:O	31:BK:142:VAL:HB	1.91	0.69
38:BR:89:VAL:HG23	38:BR:90:GLN:N	2.07	0.69
40:B2:22:VAL:HG22	40:B2:23:GLU:N	2.07	0.69
46:BZ:91:LYS:C	46:BZ:93:GLU:H	1.99	0.69
53:B8:38:GLY:O	53:B8:41:ILE:HG22	1.93	0.69
2:CE:37:ASN:N	2:CE:37:ASN:HD22	1.88	0.69
2:CE:162:ILE:O	2:CE:162:ILE:HG13	1.92	0.69
8:CK:84:ARG:HH12	8:CK:86:ILE:CD1	2.02	0.69
10:CM:48:THR:HA	10:CM:62:HIS:HB3	1.75	0.69
17:CT:52:LYS:HD2	17:CT:55:ASP:OD1	1.91	0.69
23:C1:9:G:O2'	23:C1:10:G:O4'	2.10	0.69
24:DA:270(K):C:C2'	24:DA:270(L):U:H5"	2.22	0.69
24:DA:2791:C:H4'	24:DA:2792:G:O5'	1.92	0.69
26:DD:89:SER:HB2	26:DD:159:ALA:HB2	1.75	0.69
34:DO:19:VAL:HG22	34:DO:20:GLY:N	1.97	0.69
34:DO:29:LYS:HD2	34:DO:30:THR:HG22	1.72	0.69
34:DO:50:ARG:HB3	34:DO:50:ARG:NH2	1.98	0.69
45:D3:11:ARG:HG2	45:D3:11:ARG:NH1	2.06	0.69
46:DZ:7:ILE:HD12	46:DZ:70:VAL:HG22	1.74	0.69
46:DZ:64:ALA:HA	46:DZ:67:ILE:HG13	1.75	0.69
1:AA:632:A:H3'	1:AA:632:A:OP2	1.92	0.69
1:AA:750:G:N3	15:AR:23:GLY:HA3	2.06	0.69
8:AK:51:VAL:HG11	8:AK:60:ARG:HH11	1.56	0.69
11:AN:15:ALA:HB2	11:AN:76:GLY:O	1.92	0.69
24:BA:532:A:O2'	24:BA:533:G:P	2.49	0.69
24:BA:881:G:H2'	24:BA:881:G:N3	2.05	0.69
24:BA:2074:U:H2'	24:BA:2075:U:C6	2.26	0.69
40:B2:35:LEU:HD22	40:B2:35:LEU:H	1.57	0.69
44:BV:104:PHE:CE2	44:BV:107:THR:HG22	2.27	0.69
49:B4:6:HIS:CB	49:B4:7:PRO:HA	2.12	0.69
1:CA:430:A:OP1	4:CG:9:CYS:HB2	1.92	0.69
6:CI:100:ASN:ND2	18:CU:23:LYS:HE3	2.08	0.69
14:CQ:6:LEU:O	14:CQ:6:LEU:HD23	1.92	0.69
24:DA:1429:G:H2'	24:DA:1430:C:C6	2.27	0.69
24:DA:1742:C:H5'	24:DA:1743:G:OP2	1.93	0.69
24:DA:2566:A:O2'	24:DA:2567:G:OP2	2.09	0.69
29:DG:16:ARG:HH21	29:DG:31:VAL:CG1	2.05	0.69
30:DH:154:PRO:O	30:DH:155:SER:HB2	1.91	0.69
34:DO:61:ARG:HD2	34:DO:61:ARG:H	1.58	0.69
40:D2:66:ARG:HH12	40:D2:88:ARG:NH1	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DU:45:VAL:HG12	43:DU:60:PHE:CD1	2.27	0.69
46:DZ:82:LEU:HD13	46:DZ:83:GLU:N	2.05	0.69
47:DW:47:ASN:O	47:DW:49:LYS:N	2.25	0.69
1:AA:498:A:O2'	1:AA:500:G:C8	2.46	0.69
2:AE:144:ARG:HG2	2:AE:148:TYR:HE2	1.57	0.69
3:AF:131:ARG:NH1	3:AF:135:LYS:HE2	2.07	0.69
5:AH:74:GLY:O	5:AH:115:VAL:HA	1.93	0.69
18:AU:62:GLU:HA	18:AU:65:ILE:CD1	2.20	0.69
19:AV:36:ARG:O	19:AV:38:SER:N	2.26	0.69
22:AD:11:A:H2'	22:AD:12:G:O4'	1.93	0.69
24:BA:75:G:H4'	47:BW:55:ARG:NH2	2.07	0.69
24:BA:96:G:H4'	47:BW:48:HIS:CD2	2.27	0.69
24:BA:1084:A:H2'	24:BA:1085:A:H8	1.57	0.69
24:BA:1339:G:N2	24:BA:1603:A:H1'	2.06	0.69
24:BA:1697:G:H3'	24:BA:1698:A:C5'	2.21	0.69
29:BG:160:VAL:HG12	29:BG:161:THR:N	2.08	0.69
30:BH:102:ALA:HB1	30:BH:115:VAL:O	1.92	0.69
31:BK:7:GLU:HB3	31:BK:9:LEU:HD22	1.75	0.69
43:BU:50:ARG:CG	43:BU:53:PRO:HG3	2.23	0.69
47:BW:64:LEU:O	47:BW:64:LEU:HD23	1.92	0.69
53:B8:25:MET:HA	53:B8:25:MET:HE3	1.73	0.69
3:CF:105:GLU:HG2	3:CF:106:VAL:H	1.58	0.69
6:CI:67:MET:HB2	6:CI:68:PRO:HD2	1.75	0.69
16:CS:14:ASN:N	16:CS:15:PRO:HD3	2.07	0.69
22:CD:17:C:H41	22:CD:18:G:H5'	1.58	0.69
24:DA:1180:C:H2'	24:DA:1181:C:C5'	2.23	0.69
24:DA:2131:G:H4'	24:DA:2132:U:C4'	2.22	0.69
24:DA:2311:A:C2'	24:DA:2312:U:C6	2.76	0.69
30:DH:89:ILE:O	30:DH:89:ILE:HG12	1.92	0.69
32:DM:120:LEU:HD11	32:DM:122:VAL:HG23	1.74	0.69
2:AE:68:ILE:O	2:AE:91:PRO:HD2	1.91	0.69
4:AG:126:ILE:HG22	4:AG:127:THR:H	1.58	0.69
6:AI:7:ASN:C	6:AI:8:ILE:HD12	2.17	0.69
9:AL:7:THR:O	9:AL:79:LEU:HD12	1.91	0.69
10:AM:4:ILE:HA	10:AM:100:THR:HG22	1.72	0.69
24:BA:89:G:H3'	24:BA:90:U:C5'	2.21	0.69
26:BD:44:ASN:HB2	26:BD:48:ARG:O	1.92	0.69
30:BH:110:SER:O	30:BH:111:HIS:HB2	1.93	0.69
31:BK:112:LYS:O	31:BK:113:ARG:HG2	1.92	0.69
43:BU:61:ILE:HG22	43:BU:62:GLU:H	1.56	0.69
48:BX:6:VAL:HG13	48:BX:54:VAL:CG1	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BX:59:VAL:HG12	48:BX:60:GLU:N	2.04	0.69
49:B4:9:LEU:HG	49:B4:25:TYR:HB3	1.75	0.69
49:B4:61:ARG:CB	49:B4:62:ARG:HH21	2.03	0.69
1:CA:1028:C:C2'	1:CA:1028(A):C:H5"	2.23	0.69
1:CA:1336:C:H2'	1:CA:1336:C:O2	1.90	0.69
8:CK:31:PHE:CE2	8:CK:35:ILE:HD11	2.27	0.69
22:CD:68:C:H2'	22:CD:69:C:H6	1.57	0.69
24:DA:800:A:H4'	24:DA:801:G:O5'	1.93	0.69
29:DG:28:VAL:HG23	29:DG:29:TRP:CD1	2.28	0.69
50:D5:40:LYS:HG2	50:D5:47:PRO:HD2	1.75	0.69
1:AA:189:U:N3	17:AT:72:ARG:NH1	2.40	0.69
1:AA:797:C:OP1	11:AN:124:LYS:HE2	1.93	0.69
1:AA:1032(B):G:H3'	1:AA:1033:G:H5"	1.73	0.69
2:AE:15:VAL:HG21	2:AE:209:ARG:C	2.18	0.69
2:AE:44:LEU:O	2:AE:47:THR:HB	1.92	0.69
3:AF:126:ARG:C	3:AF:127:ARG:HD2	2.18	0.69
4:AG:121:VAL:O	4:AG:134:ASP:HA	1.92	0.69
24:BA:387:U:H4'	24:BA:388:G:O5'	1.93	0.69
24:BA:448:U:O4	24:BA:583:G:H1'	1.92	0.69
24:BA:1675:C:O2	27:BE:129:HIS:HA	1.93	0.69
24:BA:2882:A:C5'	36:B0:96:ARG:HG3	2.22	0.69
27:BE:57:LYS:N	27:BE:57:LYS:HE2	2.08	0.69
28:BF:20:LEU:HB3	28:BF:199:TRP:HH2	1.58	0.69
28:BF:51:THR:HB	28:BF:88:VAL:HG11	1.73	0.69
28:BF:63:LYS:HE2	28:BF:66:PRO:O	1.92	0.69
28:BF:160:ASN:OD1	28:BF:163:VAL:HG23	1.92	0.69
30:BH:9:ILE:CG2	30:BH:10:PRO:HA	2.23	0.69
30:BH:117:PRO:HB3	30:BH:123:PHE:CZ	2.28	0.69
31:BK:77:LEU:HA	31:BK:140:LEU:HD12	1.75	0.69
34:BO:14:LYS:O	34:BO:15:ARG:C	2.35	0.69
34:BO:138:LEU:C	34:BO:140:ALA:H	2.01	0.69
38:BR:29:ARG:HG2	38:BR:46:GLU:HB2	1.75	0.69
43:BU:52:SER:H	43:BU:53:PRO:HD3	1.57	0.69
43:BU:86:ARG:HG3	43:BU:88:LYS:HZ1	1.58	0.69
1:CA:1139:G:H22	1:CA:1144:G:H1	1.38	0.69
1:CA:1305:G:O2'	1:CA:1306:A:H8	1.76	0.69
1:CA:1443:G:C3'	1:CA:1446:A:H5"	2.19	0.69
10:CM:54:PHE:C	10:CM:55:LYS:HG3	2.18	0.69
16:CS:1:MET:O	16:CS:24:ALA:HB2	1.92	0.69
24:DA:241:A:H4'	24:DA:242:G:O5'	1.93	0.69
24:DA:270(T):G:OP1	46:DZ:97:LEU:HD13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:284:U:H2'	24:DA:285:C:C6	2.28	0.69
24:DA:365:C:O2'	24:DA:366:C:H5'	1.92	0.69
24:DA:547:A:H2'	24:DA:548:A:C8	2.28	0.69
24:DA:928:G:O2'	48:DX:43:ILE:HD11	1.92	0.69
24:DA:1049:C:C2'	24:DA:1050:A:H5"	2.19	0.69
24:DA:1084:A:N1	24:DA:1085:A:N6	2.40	0.69
24:DA:1431:U:H2'	24:DA:1432:C:C6	2.28	0.69
24:DA:1570:A:H2'	24:DA:1571:A:C8	2.27	0.69
24:DA:2734:A:H5'	24:DA:2735:G:OP2	1.93	0.69
25:DB:31:C:H41	37:DQ:32:LEU:HD13	1.58	0.69
26:DD:76:PRO:O	26:DD:98:VAL:HG23	1.91	0.69
26:DD:122:ASP:CG	26:DD:123:ALA:H	2.00	0.69
27:DE:7:VAL:HG23	27:DE:8:LYS:N	2.07	0.69
29:DG:121:ASN:ND2	29:DG:123:ASN:H	1.89	0.69
32:DM:7:LYS:HD3	32:DM:9:VAL:HA	1.75	0.69
34:DO:62:LEU:HD23	53:D8:25:MET:HB2	1.74	0.69
36:D0:29:LEU:HD23	36:D0:79:LEU:HD12	1.75	0.69
37:DQ:106:ARG:N	37:DQ:110:LEU:HD21	2.07	0.69
47:DW:40:SER:C	47:DW:42:GLY:H	2.01	0.69
1:AA:428:G:H4'	1:AA:429:U:O5'	1.92	0.69
1:AA:664:G:H22	1:AA:741:G:H1	1.39	0.69
1:AA:823:G:H2'	1:AA:824:C:C6	2.28	0.69
4:AG:150:GLU:HG2	4:AG:151:LYS:H	1.58	0.69
13:AP:44:ARG:HG3	13:AP:48:LEU:HD23	1.74	0.69
19:AV:44:MET:O	19:AV:47:HIS:HB2	1.93	0.69
24:BA:548:A:H2'	24:BA:549:G:H5'	1.75	0.69
30:BH:76:VAL:O	30:BH:79:VAL:HG22	1.93	0.69
31:BK:131:LYS:HB3	31:BK:132:PRO:CA	2.21	0.69
35:BP:134:ARG:O	35:BP:135:ASP:O	2.11	0.69
43:BU:33:LYS:HE2	43:BU:34:LYS:HG2	1.75	0.69
1:CA:193:C:OP1	20:CW:57:ARG:HD2	1.93	0.69
1:CA:644:G:H2'	1:CA:645:C:H5'	1.73	0.69
7:CJ:155:ARG:HD3	7:CJ:155:ARG:N	2.07	0.69
9:CL:113:LYS:HD2	9:CL:113:LYS:N	2.07	0.69
10:CM:75:ILE:HG13	10:CM:76:ASN:N	2.05	0.69
24:DA:1558:A:O2'	24:DA:1559:G:OP2	2.11	0.69
24:DA:2687:U:C4	24:DA:2688:U:C5	2.80	0.69
26:DD:17:THR:HG22	26:DD:205:VAL:N	2.08	0.69
26:DD:17:THR:CG2	26:DD:204:ILE:HA	2.23	0.69
27:DE:65:GLY:HA2	27:DE:70:ALA:CB	2.23	0.69
32:DM:68:GLU:HG2	32:DM:88:GLU:OE1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:D1:8:VAL:HG23	39:D1:11:ARG:NH2	1.99	0.69
51:D6:14:THR:HG21	51:D6:19:ARG:HH21	1.58	0.69
1:AA:75:C:H2'	1:AA:76:G:O4'	1.93	0.69
1:AA:169:C:H5'	1:AA:169:C:H6	1.58	0.69
1:AA:517:G:O2'	1:AA:530:G:H4'	1.93	0.69
1:AA:1176:A:H2'	1:AA:1177:G:H5'	1.74	0.69
1:AA:1200:C:H1'	1:AA:1204:A:N6	2.07	0.69
1:AA:1227:A:O3'	13:AP:115:LYS:HD2	1.93	0.69
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.27	0.69
1:AA:1528:U:O2'	1:AA:1529:G:O5'	2.11	0.69
9:AL:74:ILE:HA	9:AL:77:ILE:HD12	1.75	0.69
19:AV:36:ARG:NH1	19:AV:71:LEU:N	2.41	0.69
24:BA:587:C:O2'	24:BA:588:U:OP2	2.11	0.69
24:BA:1217:C:OP2	39:B1:15:LYS:HE3	1.92	0.69
24:BA:1225:C:H4'	40:B2:85:LYS:HB2	1.75	0.69
24:BA:1454:U:O2'	24:BA:1455:G:C8	2.46	0.69
24:BA:2183:C:H2'	24:BA:2184:G:H8	1.58	0.69
33:BN:65:THR:O	33:BN:79:PHE:HB2	1.93	0.69
34:BO:85:LEU:HD23	34:BO:85:LEU:H	1.56	0.69
36:B0:33:ARG:HD2	50:B5:55:ARG:HD2	1.75	0.69
46:BZ:56:GLN:NE2	46:BZ:56:GLN:N	2.40	0.69
1:CA:795:C:O2'	1:CA:1506:U:H1'	1.93	0.69
2:CE:212:GLN:NE2	2:CE:216:SER:HB2	2.08	0.69
5:CH:78:HIS:HE1	5:CH:143:ARG:H	1.38	0.69
24:DA:2127:G:H3'	24:DA:2128:C:H5"	1.73	0.69
24:DA:2346:A:O2'	24:DA:2347:C:OP2	2.10	0.69
34:DO:62:LEU:HD22	34:DO:62:LEU:H	1.53	0.69
42:DT:12:VAL:HG11	42:DT:27:THR:OG1	1.93	0.69
1:AA:1314:C:OP2	19:AV:6:LYS:HD2	1.93	0.68
1:AA:1397:C:H41	23:A1:22:A:H8	1.40	0.68
4:AG:11:LEU:C	4:AG:13:ARG:N	2.44	0.68
10:AM:31:GLY:O	10:AM:32:ALA:HB2	1.92	0.68
11:AN:9:LYS:N	11:AN:9:LYS:HD3	2.08	0.68
15:AR:48:LYS:HE2	15:AR:48:LYS:HA	1.75	0.68
19:AV:42:PRO:HG2	49:B4:63:TYR:HE2	1.57	0.68
20:AW:88:VAL:O	20:AW:92:LEU:HD23	1.93	0.68
24:BA:74:A:H4'	24:BA:75:G:O5'	1.92	0.68
24:BA:1212:G:H2'	24:BA:1236:G:H22	1.58	0.68
24:BA:1918:A:O2'	24:BA:1919:A:N7	2.26	0.68
26:BD:93:ALA:HB3	26:BD:105:ILE:HG22	1.74	0.68
45:B3:25:ARG:HG3	45:B3:25:ARG:HH11	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:792:A:C4	1:CA:794:A:N6	2.61	0.68
1:CA:1135:U:H4'	1:CA:1136:U:H5	1.58	0.68
1:CA:1262:C:H2'	1:CA:1263:C:C6	2.28	0.68
1:CA:1297:C:O2'	7:CJ:114:ARG:NH2	2.26	0.68
1:CA:1346:A:N6	7:CJ:10:ARG:HD2	2.07	0.68
12:CO:25:PRO:C	12:CO:27:LEU:H	1.98	0.68
19:CV:31:ILE:HG23	19:CV:49:ILE:HA	1.75	0.68
20:CW:64:ASP:HA	20:CW:67:ALA:HB3	1.74	0.68
24:DA:2392:A:C8	34:DO:60:MET:HG3	2.29	0.68
24:DA:2614:A:H4'	24:DA:2615:U:OP1	1.93	0.68
25:DB:28:C:OP2	37:DQ:33:LYS:HE3	1.92	0.68
26:DD:35:LYS:HB3	26:DD:63:ARG:HA	1.75	0.68
29:DG:56:ALA:HB2	29:DG:153:ARG:HE	1.57	0.68
44:DV:53:ILE:HG22	44:DV:71:VAL:HG13	1.75	0.68
51:D6:41:PRO:CG	51:D6:45:LYS:H	2.05	0.68
8:AK:37:ARG:HG3	8:AK:38:ILE:N	2.07	0.68
10:AM:7:LYS:HE3	10:AM:71:LEU:HD13	1.75	0.68
24:BA:1819:A:OP1	26:BD:161:THR:HG21	1.92	0.68
24:BA:2844:G:H3'	24:BA:2845:G:H8	1.58	0.68
24:BA:2861:G:O2'	24:BA:2862:G:H5'	1.94	0.68
29:BG:5:VAL:HG12	29:BG:6:ALA:N	2.07	0.68
29:BG:91:ARG:HD2	29:BG:92:VAL:N	2.08	0.68
35:BP:108:GLY:HA3	44:BV:116:VAL:HG22	1.75	0.68
38:BR:30:VAL:HG12	38:BR:86:ILE:HG13	1.75	0.68
1:CA:74:C:O5'	1:CA:74:C:H6	1.76	0.68
1:CA:1205:U:H5'	3:CF:190:ARG:NH2	2.09	0.68
4:CG:188:LEU:HD23	4:CG:189:PRO:HD2	1.74	0.68
24:DA:943:U:OP2	34:DO:36:LYS:CD	2.41	0.68
24:DA:1449:A:H5'	24:DA:1449(A):G:OP2	1.93	0.68
24:DA:2355:C:H4'	45:D3:36:ILE:HD11	1.75	0.68
31:DK:5:LEU:HD12	31:DK:5:LEU:N	2.08	0.68
37:DQ:106:ARG:CA	37:DQ:110:LEU:HD11	2.19	0.68
39:D1:65:ILE:HD11	39:D1:93:LYS:HA	1.74	0.68
49:D4:37:SER:C	49:D4:39:CYS:H	1.98	0.68
1:AA:1032(B):G:C3'	1:AA:1033:G:H5"	2.23	0.68
4:AG:117:ALA:O	4:AG:121:VAL:HG23	1.93	0.68
7:AJ:20:ASP:OD1	7:AJ:23:VAL:HB	1.93	0.68
7:AJ:25:ALA:HA	7:AJ:28:ASN:ND2	2.08	0.68
14:AQ:26:ARG:HD3	14:AQ:43:CYS:HB3	1.75	0.68
17:AT:19:VAL:CG2	17:AT:44:ALA:HB3	2.23	0.68
24:BA:90:U:C2'	24:BA:91:A:H5"	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1314:C:OP1	24:BA:1332:G:H5'	1.93	0.68
29:BG:173:LEU:HD23	29:BG:176:LEU:HD12	1.73	0.68
30:BH:153:LYS:CB	30:BH:161:GLY:HA2	2.23	0.68
39:B1:66:ASN:HD21	39:B1:70:ARG:HE	1.42	0.68
40:B2:41:GLY:H	40:B2:46:VAL:HG13	1.58	0.68
43:BU:76:CYS:SG	43:BU:77:PRO:HD2	2.34	0.68
44:BV:127:LYS:HB3	44:BV:162:GLU:HG3	1.74	0.68
53:B8:14:VAL:HG11	53:B8:22:VAL:CG1	2.23	0.68
53:B8:34:TRP:C	53:B8:36:LYS:H	1.98	0.68
1:CA:75:C:H2'	1:CA:76:G:O4'	1.92	0.68
1:CA:262:A:H2'	1:CA:263:A:C8	2.27	0.68
4:CG:11:LEU:C	4:CG:13:ARG:H	2.00	0.68
4:CG:30:LYS:HA	4:CG:34:GLU:HB2	1.75	0.68
4:CG:96:LEU:HD22	4:CG:96:LEU:N	2.08	0.68
13:CP:117:VAL:HG22	13:CP:118:ALA:H	1.59	0.68
32:DM:46:VAL:O	32:DM:47:ALA:HB3	1.92	0.68
43:DU:2:ARG:HG2	43:DU:2:ARG:HH11	1.57	0.68
1:AA:457:C:H2'	1:AA:458:C:C6	2.29	0.68
1:AA:652:U:O4	1:AA:752:G:H2'	1.93	0.68
1:AA:1024:G:O2'	1:AA:1025:U:H5'	1.92	0.68
2:AE:144:ARG:HG2	2:AE:148:TYR:CE2	2.29	0.68
3:AF:4:LYS:HZ2	3:AF:4:LYS:H	1.40	0.68
3:AF:87:LEU:HD22	3:AF:87:LEU:N	2.07	0.68
15:AR:21:ASP:OD1	15:AR:24:SER:HB2	1.94	0.68
24:BA:588:U:H2'	24:BA:589:C:C6	2.28	0.68
26:BD:34:VAL:O	26:BD:34:VAL:HG13	1.92	0.68
27:BE:182:LEU:O	27:BE:183:LEU:HD12	1.92	0.68
30:BH:54:ARG:HD3	30:BH:54:ARG:H	1.58	0.68
37:BQ:49:VAL:HG22	37:BQ:80:LEU:HD12	1.74	0.68
37:BQ:52:SER:H	37:BQ:55:ALA:HB3	1.59	0.68
44:BV:80:ARG:O	44:BV:81:ARG:HG3	1.92	0.68
51:B6:23:THR:HG23	51:B6:24:GLU:H	1.58	0.68
1:CA:1129:C:H5'	1:CA:1130:A:OP1	1.92	0.68
1:CA:1256:A:H2	1:CA:1277:C:C6	2.12	0.68
2:CE:126:GLU:HG2	2:CE:126:GLU:O	1.92	0.68
4:CG:79:PHE:HD2	4:CG:79:PHE:C	1.99	0.68
8:CK:6:ILE:H	8:CK:6:ILE:CD1	2.06	0.68
24:DA:666:G:H4'	34:DO:49:ARG:NH1	2.08	0.68
24:DA:905:U:C2'	24:DA:906:G:H5"	2.23	0.68
24:DA:1845:G:OP1	26:DD:258:LYS:NZ	2.25	0.68
43:DU:61:ILE:CG2	43:DU:62:GLU:N	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:47:C:H4'	1:AA:48:C:O5'	1.93	0.68
1:AA:523:A:N1	12:AO:92:ASP:HB2	2.09	0.68
1:AA:653:A:H1'	8:AK:56:LYS:HE2	1.75	0.68
1:AA:1214:C:H5"	1:AA:1215:G:OP2	1.94	0.68
1:AA:1380:U:H5"	1:AA:1381:U:OP1	1.93	0.68
24:BA:6:A:H4'	32:BM:129:PRO:HB3	1.74	0.68
24:BA:315:G:H2'	24:BA:316:C:C6	2.29	0.68
24:BA:1281:G:H5'	24:BA:1281:G:C8	2.21	0.68
30:BH:49:VAL:HG22	30:BH:50:VAL:H	1.59	0.68
31:BK:125:GLU:HA	31:BK:141:LYS:CB	2.23	0.68
34:BO:35:HIS:O	34:BO:36:LYS:O	2.12	0.68
34:BO:36:LYS:HB2	34:BO:36:LYS:HZ2	1.59	0.68
39:B1:92:ARG:O	39:B1:92:ARG:CG	2.42	0.68
44:BV:146:ILE:HD11	44:BV:174:VAL:O	1.93	0.68
46:BZ:93:GLU:O	46:BZ:98:LEU:HD21	1.93	0.68
47:BW:4:SER:HB2	47:BW:5:GLU:OE2	1.93	0.68
53:B8:46:ARG:NH1	53:B8:46:ARG:HB2	2.09	0.68
53:B8:60:LEU:O	53:B8:61:LEU:HD12	1.93	0.68
1:CA:84:U:O2'	1:CA:85:U:H5	1.75	0.68
1:CA:321:A:H2'	1:CA:322:C:C6	2.29	0.68
1:CA:1060:C:C5	3:CF:2:GLY:HA2	2.29	0.68
1:CA:1158:C:N3	1:CA:1160:G:N7	2.41	0.68
10:CM:96:ILE:N	10:CM:96:ILE:HD13	2.09	0.68
24:DA:1543:A:H1'	24:DA:1545:A:C5'	2.21	0.68
24:DA:1799:G:H4'	24:DA:1800:C:O5'	1.93	0.68
30:DH:126:PRO:HB2	30:DH:130:ARG:O	1.93	0.68
38:DR:109:GLU:O	38:DR:113:LYS:HB2	1.94	0.68
40:D2:18:LEU:O	40:D2:95:LEU:HA	1.94	0.68
41:DS:29:LEU:HD21	41:DS:33:ARG:NE	2.09	0.68
1:AA:38:G:H4'	1:AA:547:A:N6	2.07	0.68
1:AA:936:C:H2'	1:AA:937:A:C8	2.29	0.68
1:AA:1061:G:OP2	3:AF:3:ASN:ND2	2.27	0.68
1:AA:1067:A:O2'	1:AA:1068:G:P	2.51	0.68
1:AA:1198:G:H2'	1:AA:1199:U:C6	2.29	0.68
8:AK:51:VAL:HG11	8:AK:60:ARG:NH1	2.07	0.68
24:BA:835:A:OP1	53:B8:52:LYS:HG2	1.94	0.68
24:BA:1047:G:H2'	24:BA:1110:G:C2	2.28	0.68
24:BA:1246:A:H5'	34:BO:15:ARG:HH22	1.58	0.68
24:BA:1929:G:C4'	24:BA:1930:G:OP1	2.42	0.68
26:BD:92:ILE:HD12	26:BD:104:TYR:HD2	1.57	0.68
27:BE:26:ILE:O	27:BE:27:LEU:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:117:MET:O	27:BE:118:LYS:HB2	1.94	0.68
29:BG:83:ARG:HB2	29:BG:86:MET:HE3	1.74	0.68
31:BK:120:ILE:HG22	31:BK:122:GLU:H	1.59	0.68
33:BN:35:VAL:HG23	33:BN:65:THR:HG23	1.76	0.68
40:B2:84:LYS:O	40:B2:85:LYS:O	2.11	0.68
43:BU:32:PRO:HG2	43:BU:33:LYS:H	1.59	0.68
49:B4:61:ARG:HB3	49:B4:62:ARG:NH2	2.03	0.68
3:CF:147:LYS:O	3:CF:203:PHE:HB3	1.92	0.68
8:CK:112:LEU:HA	8:CK:134:ILE:HG12	1.75	0.68
22:CD:9:G:H4'	22:CD:10:G:OP1	1.91	0.68
24:DA:774:A:H2	24:DA:787:U:O2'	1.76	0.68
24:DA:1011:G:OP1	39:D1:75:ASN:HB3	1.93	0.68
24:DA:2415:G:H2'	24:DA:2416:C:H6	1.59	0.68
27:DE:9:VAL:HB	27:DE:25:VAL:HG23	1.75	0.68
29:DG:112:PRO:CB	49:D4:37:SER:HB2	2.22	0.68
35:DP:79:LEU:CD1	35:DP:80:GLU:OE1	2.38	0.68
37:DQ:57:LYS:HD3	37:DQ:57:LYS:H	1.59	0.68
43:DU:29:GLU:HB3	43:DU:38:ILE:HG12	1.74	0.68
46:DZ:74:VAL:HG12	46:DZ:74:VAL:O	1.93	0.68
1:AA:1060:C:H4'	10:AM:52:GLY:HA2	1.74	0.68
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.08	0.68
19:AV:12:ASP:O	19:AV:16:LEU:HD13	1.94	0.68
24:BA:508:G:O2'	24:BA:509:C:OP1	2.10	0.68
24:BA:2716:U:O2'	24:BA:2717:G:H5'	1.94	0.68
31:BK:10:GLU:CD	31:BK:11:ASN:H	2.01	0.68
43:BU:23:ARG:HH11	43:BU:23:ARG:HG2	1.57	0.68
44:BV:159:PRO:HG2	44:BV:160:GLY:H	1.59	0.68
1:CA:143:A:H2	1:CA:220:G:H1	1.42	0.68
1:CA:464:G:O6	1:CA:466:C:H5'	1.94	0.68
1:CA:1363:A:H1'	1:CA:1365:G:C8	2.28	0.68
2:CE:24:TRP:CD1	2:CE:24:TRP:H	2.11	0.68
4:CG:198:VAL:HG12	4:CG:199:ASN:N	2.09	0.68
8:CK:6:ILE:HD12	8:CK:6:ILE:N	2.08	0.68
11:CN:124:LYS:HB3	11:CN:125:PHE:HD1	1.58	0.68
13:CP:78:ILE:HG23	13:CP:92:HIS:ND1	2.09	0.68
17:CT:59:ILE:HD13	17:CT:59:ILE:N	2.08	0.68
24:DA:865:C:H4'	24:DA:866:A:OP1	1.93	0.68
24:DA:1101:U:H2'	24:DA:1102:C:H6	1.57	0.68
24:DA:1762:A:H5"	24:DA:1763:G:OP2	1.94	0.68
24:DA:1786:A:O2'	24:DA:1938:A:N6	2.26	0.68
24:DA:2355:C:C4'	45:D3:36:ILE:HD11	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2712:U:H1'	24:DA:2712(A):A:C8	2.27	0.68
27:DE:16:ARG:O	27:DE:16:ARG:HG3	1.93	0.68
30:DH:4:ILE:HG13	30:DH:6:ARG:NE	2.08	0.68
30:DH:126:PRO:CD	30:DH:127:GLU:H	2.07	0.68
37:DQ:100:ALA:HA	37:DQ:103:GLU:HG2	1.75	0.68
38:DR:111:ARG:C	38:DR:113:LYS:H	2.01	0.68
43:DU:40:GLU:HA	43:DU:64:GLU:OE1	1.94	0.68
44:DV:129:SER:HB3	44:DV:132:ASN:OD1	1.92	0.68
1:AA:355:C:O4'	1:AA:388:G:O2'	2.08	0.68
1:AA:403:C:O2'	1:AA:404:U:H5'	1.94	0.68
1:AA:532:A:H61	3:AF:193:TYR:HB3	1.58	0.68
1:AA:562:C:H4'	1:AA:563:A:O5'	1.94	0.68
1:AA:909:A:H2'	1:AA:910:C:O4'	1.94	0.68
1:AA:1005:A:H5"	1:AA:1006:C:C5	2.29	0.68
10:AM:42:THR:HG23	10:AM:68:HIS:HA	1.76	0.68
10:AM:47:PHE:HE1	10:AM:63:PHE:HB2	1.58	0.68
12:AO:124:LYS:HB2	12:AO:124:LYS:HZ2	1.59	0.68
12:AO:124:LYS:HG3	12:AO:125:PRO:CD	2.24	0.68
20:AW:100:ILE:HD12	20:AW:100:ILE:N	2.08	0.68
24:BA:68:G:H3'	24:BA:69:C:H6	1.58	0.68
24:BA:892:G:H2'	24:BA:893:C:O4'	1.94	0.68
24:BA:1344:G:H4'	24:BA:1384:A:C5	2.27	0.68
24:BA:2068:U:N3	24:BA:2430:A:C2	2.42	0.68
24:BA:2444:G:OP2	28:BF:68:LYS:CE	2.41	0.68
24:BA:2815:C:O2'	50:B5:43:HIS:HD2	1.77	0.68
1:CA:179:A:H2'	1:CA:180:U:H6	1.57	0.68
1:CA:630:G:H2'	1:CA:631:G:H4'	1.76	0.68
1:CA:794:A:H8	1:CA:794:A:C5'	2.06	0.68
1:CA:848:C:O5'	1:CA:848:C:H6	1.76	0.68
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.28	0.68
10:CM:6:ILE:HG22	10:CM:98:ILE:CG1	2.16	0.68
21:CX:6:ARG:HE	21:CX:15:ARG:NE	1.90	0.68
24:DA:265:A:O2'	24:DA:266:G:C4'	2.42	0.68
24:DA:2336:A:H61	45:D3:43:THR:HG21	1.58	0.68
24:DA:2665:A:O2'	24:DA:2666:C:H5'	1.92	0.68
25:DB:25:A:C2	25:DB:26:A:H1'	2.29	0.68
29:DG:171:ALA:O	29:DG:175:LEU:HG	1.93	0.68
35:DP:66:ILE:HG13	35:DP:67:ARG:H	1.58	0.68
38:DR:50:ILE:HG22	38:DR:62:THR:OG1	1.94	0.68
47:DW:23:LYS:O	47:DW:27:GLU:OE1	2.11	0.68
2:AE:76:GLN:HE21	2:AE:76:GLN:HA	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AJ:20:ASP:CG	7:AJ:23:VAL:HB	2.19	0.68
12:AO:20:LYS:HD3	12:AO:20:LYS:N	2.09	0.68
13:AP:9:ILE:CB	13:AP:10:PRO:CD	2.56	0.68
16:AS:21:VAL:HG21	16:AS:59:TRP:CD2	2.29	0.68
24:BA:2267:A:H5"	24:BA:2268:A:H5'	1.76	0.68
28:BF:29:ASN:HD21	28:BF:32:LEU:HB2	1.57	0.68
42:BT:35:THR:H	42:BT:38:GLU:HG2	1.59	0.68
43:BU:94:LYS:NZ	43:BU:101:LYS:NZ	2.42	0.68
1:CA:1055:A:H4'	3:CF:161:GLU:OE2	1.94	0.68
1:CA:1330:U:H5'	1:CA:1331:G:OP2	1.94	0.68
4:CG:120:LEU:HD22	4:CG:125:HIS:HB2	1.74	0.68
7:CJ:138:LYS:HE2	7:CJ:142:GLU:OE2	1.94	0.68
8:CK:20:TYR:HE2	8:CK:75:ARG:HD2	1.59	0.68
24:DA:1359:A:H8	24:DA:1359:A:C4'	2.06	0.68
24:DA:1639:U:O2'	24:DA:1640:C:H5"	1.94	0.68
24:DA:2657:A:C2	24:DA:2665:A:N7	2.61	0.68
30:DH:4:ILE:HG13	30:DH:6:ARG:NH1	2.09	0.68
31:DK:8:PRO:HG3	31:DK:14:ASP:HB2	1.76	0.68
31:DK:21:VAL:HG22	31:DK:22:LYS:H	1.57	0.68
32:DM:131:GLN:CD	32:DM:132:ALA:H	2.01	0.68
35:DP:88:GLY:C	35:DP:90:VAL:N	2.47	0.68
42:DT:18:TYR:C	42:DT:20:GLY:H	2.02	0.68
44:DV:125:LEU:O	44:DV:164:ALA:HB3	1.94	0.68
46:DZ:4:VAL:HG23	46:DZ:10:LYS:O	1.93	0.68
50:D5:20:ARG:HA	50:D5:23:HIS:ND1	2.09	0.68
1:AA:794:A:C2	1:AA:795:C:C4	2.81	0.68
1:AA:1129:C:C4'	1:AA:1130:A:H5'	2.23	0.68
1:AA:1160:G:N1	1:AA:1177:G:N2	2.41	0.68
1:AA:1182:G:H4'	1:AA:1183:A:H5'	1.76	0.68
1:AA:1239:A:H62	1:AA:1299:A:H62	1.41	0.68
2:AE:162:ILE:HD11	2:AE:184:VAL:CG2	2.22	0.68
4:AG:21:LEU:HD12	4:AG:22:LYS:H	1.59	0.68
4:AG:86:LYS:HA	4:AG:86:LYS:HZ1	1.58	0.68
24:BA:270(L):U:H3	31:BK:50:ARG:HH11	1.40	0.68
24:BA:372:G:O2'	24:BA:373:U:OP2	2.11	0.68
24:BA:997:G:C2'	24:BA:998:C:H5'	2.24	0.68
24:BA:1340:U:O2'	24:BA:1341:U:OP1	2.08	0.68
24:BA:1348:G:H2'	24:BA:1349:A:C5'	2.24	0.68
24:BA:1906:G:C6	24:BA:1929:G:N2	2.61	0.68
24:BA:2114:A:N1	24:BA:2170:A:N6	2.42	0.68
25:BB:15:A:H5'	25:BB:16:G:H8	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:31:C:H41	37:BQ:32:LEU:HD13	1.57	0.68
25:BB:34:U:O4	25:BB:44:G:H2'	1.93	0.68
26:BD:27:THR:CG2	26:BD:28:GLU:H	2.00	0.68
27:BE:89:ASP:O	27:BE:90:THR:HB	1.94	0.68
31:BK:68:LEU:HA	31:BK:71:ILE:HG22	1.76	0.68
40:B2:49:THR:CB	40:B2:50:PRO:HD3	2.23	0.68
1:CA:753:A:O2'	1:CA:754:C:OP2	2.12	0.68
1:CA:1239:A:H62	1:CA:1299:A:H62	1.41	0.68
4:CG:29:PRO:O	4:CG:30:LYS:HD3	1.94	0.68
7:CJ:79:ARG:NH2	7:CJ:82:GLY:HA2	2.09	0.68
9:CL:48:GLU:N	9:CL:49:PRO:HD2	2.10	0.68
24:DA:1019:U:HO2'	24:DA:1021:A:H2	1.42	0.68
24:DA:1068:G:O2'	24:DA:1096:A:N3	2.27	0.68
24:DA:2580:U:H4'	27:DE:130:GLY:HA3	1.74	0.68
24:DA:2746:U:N3	24:DA:2756:U:O4	2.27	0.68
30:DH:77:LYS:HG2	30:DH:77:LYS:O	1.94	0.68
34:DO:39:LYS:CA	34:DO:45:LEU:HD11	2.23	0.68
44:DV:18:LEU:H	44:DV:18:LEU:CD1	2.06	0.68
47:DW:64:LEU:HD22	47:DW:68:ARG:HD2	1.76	0.68
49:D4:15:ILE:HD13	49:D4:15:ILE:N	2.09	0.68
1:AA:1182:G:H5"	1:AA:1183:A:H5'	1.76	0.67
2:AE:154:LEU:HD22	2:AE:154:LEU:C	2.19	0.67
3:AF:75:VAL:CB	3:AF:83:ARG:HD3	2.24	0.67
8:AK:35:ILE:O	8:AK:39:LEU:HB2	1.94	0.67
13:AP:28:ALA:C	13:AP:30:ALA:H	2.02	0.67
18:AU:79:LEU:HB3	18:AU:80:PRO:HD2	1.76	0.67
24:BA:483:A:H5"	43:BU:49:VAL:HG13	1.75	0.67
24:BA:1113:U:OP1	30:BH:3:ARG:HG2	1.93	0.67
24:BA:1254:A:H5'	24:BA:1255:U:H5'	1.74	0.67
28:BF:125:LEU:HB2	28:BF:196:LEU:HD23	1.76	0.67
34:BO:39:LYS:HG3	34:BO:45:LEU:HD23	1.75	0.67
35:BP:127:ILE:HG22	35:BP:128:LYS:N	2.07	0.67
37:BQ:48:LEU:HD12	37:BQ:48:LEU:N	2.10	0.67
39:B1:50:ARG:HG2	39:B1:53:ARG:NH2	2.09	0.67
44:BV:93:ASP:O	44:BV:95:PRO:HD2	1.94	0.67
53:B8:25:MET:O	53:B8:48:PHE:HE1	1.77	0.67
1:CA:69:G:C2	1:CA:73:G:N7	2.62	0.67
1:CA:954:G:H21	1:CA:1227:A:H62	1.42	0.67
3:CF:195:VAL:HG12	3:CF:196:LEU:N	2.07	0.67
7:CJ:50:ILE:HB	7:CJ:58:PRO:HB3	1.75	0.67
13:CP:36:LYS:HD3	13:CP:36:LYS:C	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CP:90:LEU:CA	13:CP:93:ARG:HD2	2.23	0.67
20:CW:83:ARG:HA	20:CW:86:ARG:HD3	1.76	0.67
24:DA:1458:C:H5"	24:DA:1459:G:C5'	2.19	0.67
24:DA:1963:U:O2	24:DA:1963:U:H2'	1.94	0.67
25:DB:29:A:H2'	25:DB:30:C:C6	2.29	0.67
26:DD:35:LYS:HZ1	26:DD:104:TYR:HB2	1.56	0.67
30:DH:126:PRO:HG2	30:DH:127:GLU:H	1.59	0.67
31:DK:13:GLY:HA3	31:DK:17:GLN:OE1	1.93	0.67
35:DP:90:VAL:CG1	35:DP:91:GLU:N	2.57	0.67
35:DP:133:ARG:O	35:DP:134:ARG:HB2	1.94	0.67
37:DQ:35:ILE:HD13	37:DQ:101:LEU:HD23	1.76	0.67
38:DR:11:GLU:CD	38:DR:11:GLU:N	2.47	0.67
43:DU:21:LYS:HG3	43:DU:22:GLY:N	2.09	0.67
1:AA:627:G:O2'	1:AA:628:G:H5'	1.94	0.67
3:AF:92:ALA:HA	3:AF:95:THR:HB	1.76	0.67
3:AF:152:ILE:HB	3:AF:199:LYS:HB2	1.76	0.67
24:BA:2118:U:O4	24:BA:2148:G:H4'	1.94	0.67
38:BR:82:LEU:H	38:BR:82:LEU:HD12	1.59	0.67
44:BV:59:LEU:HD12	44:BV:60:GLU:N	2.09	0.67
1:CA:565:U:H5"	1:CA:566:G:H3'	1.74	0.67
1:CA:1064:G:H1'	1:CA:1066:C:C5	2.29	0.67
24:DA:1142(A):A:C2'	24:DA:1143:A:H3'	2.24	0.67
24:DA:1507:A:H3'	24:DA:1508:A:C5'	2.19	0.67
24:DA:2250:G:C5	35:DP:82:ARG:HD2	2.29	0.67
24:DA:2636:U:OP2	27:DE:79:ARG:NH1	2.28	0.67
32:DM:96:GLU:CG	32:DM:97:ARG:H	2.00	0.67
33:DN:14:THR:O	33:DN:51:ALA:HB3	1.94	0.67
34:DO:65:ARG:HH11	34:DO:65:ARG:CG	2.06	0.67
35:DP:33:GLY:HA2	35:DP:105:GLU:HA	1.76	0.67
35:DP:90:VAL:O	35:DP:92:GLY:N	2.25	0.67
38:DR:50:ILE:CD1	38:DR:102:ILE:HD11	2.25	0.67
1:AA:1041:A:C2'	1:AA:1042:G:H5"	2.24	0.67
1:AA:1060:C:H5"	10:AM:51:ARG:HG2	1.75	0.67
1:AA:1540:U:H2'	1:AA:1541:U:OP1	1.94	0.67
2:AE:163:PHE:HA	2:AE:185:ILE:HG13	1.75	0.67
3:AF:180:ALA:O	3:AF:181:ASN:HB3	1.94	0.67
8:AK:37:ARG:HG3	8:AK:38:ILE:HG13	1.76	0.67
9:AL:127:LYS:HG3	9:AL:128:ARG:NH1	2.08	0.67
24:BA:27:G:H1'	24:BA:513:A:N6	2.10	0.67
24:BA:1116:C:H2'	24:BA:1117:G:H8	1.60	0.67
24:BA:1731:G:H3'	24:BA:1731:G:N3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2638:G:HO2'	24:BA:2639:A:H8	1.40	0.67
34:BO:85:LEU:HA	34:BO:88:LEU:CB	2.25	0.67
44:BV:149:SER:HA	44:BV:170:THR:HG23	1.76	0.67
1:CA:112:G:H5'	1:CA:389:A:H4'	1.75	0.67
1:CA:644:G:C2'	1:CA:645:C:H5'	2.24	0.67
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.29	0.67
5:CH:63:ARG:O	5:CH:66:MET:HE2	1.94	0.67
6:CI:3:ARG:HB3	6:CI:93:SER:HB2	1.75	0.67
7:CJ:120:ILE:O	7:CJ:124:LEU:HB2	1.95	0.67
24:DA:1264:G:H5'	50:D5:11:THR:HG21	1.76	0.67
24:DA:1332:G:N2	24:DA:1609:A:H2'	2.08	0.67
24:DA:1493:C:H4'	24:DA:1494:A:OP1	1.93	0.67
25:DB:38:C:O2	25:DB:48:A:H1'	1.94	0.67
25:DB:82:G:O2'	25:DB:83:G:H5'	1.94	0.67
26:DD:44:ASN:N	26:DD:44:ASN:ND2	2.42	0.67
31:DK:99:GLU:CG	31:DK:103:ARG:HH21	2.07	0.67
35:DP:104:PHE:CE1	35:DP:125:LEU:HD11	2.29	0.67
43:DU:14:LEU:HD23	43:DU:15:VAL:N	2.10	0.67
46:DZ:20:ARG:HH11	46:DZ:20:ARG:HG2	1.58	0.67
1:AA:376:G:H4'	16:AS:5:ARG:HD3	1.76	0.67
2:AE:75:LYS:O	2:AE:75:LYS:HD3	1.94	0.67
3:AF:47:LEU:HD23	3:AF:52:LEU:HD13	1.76	0.67
4:AG:22:LYS:CG	4:AG:26:CYS:HB2	2.25	0.67
5:AH:152:ARG:HG2	5:AH:152:ARG:NH1	2.07	0.67
22:AC:20:U:C3'	22:AC:21:A:H5'	2.21	0.67
24:BA:1639:U:H2'	24:BA:1640:C:H5"	1.76	0.67
24:BA:2166:G:O2'	24:BA:2167:U:H6	1.78	0.67
29:BG:32:PRO:CB	29:BG:172:LEU:HD22	2.25	0.67
44:BV:50:GLN:C	44:BV:50:GLN:HE21	2.03	0.67
51:B6:25:LYS:HE3	51:B6:27:LYS:HD3	1.74	0.67
53:B8:34:TRP:CD1	53:B8:35:GLN:N	2.62	0.67
1:CA:713:G:N2	1:CA:777:A:H1'	2.08	0.67
1:CA:1534:A:HO2'	1:CA:1535:C:H5	1.42	0.67
24:DA:564:C:O2'	24:DA:565:C:H5'	1.93	0.67
24:DA:898:C:H3'	24:DA:899:A:H5'	1.76	0.67
24:DA:1869:G:H8	24:DA:1869:G:H5'	1.58	0.67
24:DA:2111:C:H5	24:DA:2147:G:N2	1.91	0.67
24:DA:2637:U:H2'	24:DA:2638:G:O4'	1.95	0.67
27:DE:13:ARG:HH11	27:DE:13:ARG:CB	2.07	0.67
27:DE:116:VAL:O	27:DE:117:MET:HB3	1.94	0.67
28:DF:184:TYR:O	28:DF:188:ARG:HG3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:51:VAL:HG11	46:DZ:74:VAL:HG21	1.76	0.67
1:AA:878:G:H5'	8:AK:89:PRO:HG2	1.75	0.67
1:AA:977:A:O2'	1:AA:978:A:H5'	1.95	0.67
1:AA:1066:C:H3'	1:AA:1067:A:H8	1.57	0.67
3:AF:36:ASP:HA	3:AF:39:ILE:HD12	1.76	0.67
12:AO:55:VAL:CG1	12:AO:56:ALA:N	2.58	0.67
22:AC:42:G:O2'	22:AC:43:A:H5'	1.94	0.67
22:AD:5:G:H2'	22:AD:6:G:C5'	2.24	0.67
24:BA:922:U:H2'	24:BA:923:C:C6	2.29	0.67
24:BA:1140:C:H1'	24:BA:1143:A:C8	2.30	0.67
24:BA:1681:G:H8	24:BA:1681:G:OP2	1.76	0.67
24:BA:2657:A:H2'	24:BA:2658:C:H5'	1.76	0.67
26:BD:23:GLU:C	26:BD:25:THR:H	2.02	0.67
27:BE:107:THR:HA	27:BE:163:GLU:O	1.94	0.67
33:BN:4:PRO:O	33:BN:5:GLN:HB2	1.93	0.67
43:BU:89:PHE:C	43:BU:90:LEU:HD22	2.19	0.67
46:BZ:75:GLU:C	46:BZ:76:ARG:HD3	2.18	0.67
53:B8:14:VAL:HG12	53:B8:15:LYS:N	2.08	0.67
1:CA:291:C:O2'	1:CA:292:G:H5'	1.94	0.67
2:CE:178:ARG:NH2	8:CK:68:ARG:HH22	1.90	0.67
4:CG:173:TRP:CD2	4:CG:189:PRO:HB3	2.30	0.67
8:CK:14:ARG:O	8:CK:18:ARG:HD3	1.94	0.67
11:CN:95:ILE:HD12	11:CN:108:ILE:HD13	1.77	0.67
16:CS:66:PRO:HG2	16:CS:71:ARG:NH1	2.09	0.67
24:DA:141:A:H8	24:DA:1595:G:N2	1.91	0.67
24:DA:2150:U:H2'	24:DA:2151:G:C8	2.30	0.67
24:DA:2805:G:H2'	24:DA:2807:G:C8	2.29	0.67
31:DK:115:ALA:HB3	31:DK:128:LEU:CD1	2.22	0.67
34:DO:26:GLY:O	34:DO:28:GLY:N	2.26	0.67
37:DQ:52:SER:O	37:DQ:56:LEU:HD22	1.93	0.67
37:DQ:67:ARG:HB2	37:DQ:67:ARG:CZ	2.24	0.67
40:D2:25:LEU:H	40:D2:92:THR:HG21	1.60	0.67
43:DU:49:VAL:O	43:DU:51:VAL:N	2.27	0.67
44:DV:27:VAL:HG22	44:DV:28:MET:N	2.10	0.67
49:D4:33:VAL:HG12	49:D4:34:GLU:N	2.10	0.67
2:AE:12:GLU:C	2:AE:14:GLY:H	2.02	0.67
2:AE:212:GLN:O	2:AE:216:SER:HB2	1.95	0.67
4:AG:33:MET:O	4:AG:34:GLU:O	2.13	0.67
13:AP:22:ILE:HG23	13:AP:67:GLU:OE1	1.93	0.67
19:AV:29:ARG:HB2	19:AV:48:THR:OG1	1.94	0.67
24:BA:813:U:H2'	24:BA:814:C:C6	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1019:U:O2'	24:BA:1021:A:H2	1.75	0.67
24:BA:1179:C:C2'	24:BA:1180:C:H5"	2.25	0.67
24:BA:2691:C:H5'	24:BA:2691:C:H6	1.58	0.67
25:BB:1:U:O2'	25:BB:2:C:H5'	1.95	0.67
25:BB:65:C:H41	25:BB:108:C:H2'	1.58	0.67
28:BF:34:TRP:CE3	34:BO:8:PRO:HB3	2.29	0.67
38:BR:26:ASP:HB3	38:BR:91:ARG:CA	2.23	0.67
46:BZ:95:LEU:O	46:BZ:96:LYS:HB2	1.95	0.67
1:CA:121:C:N4	1:CA:235:C:H3'	2.06	0.67
1:CA:1372:U:OP1	9:CL:71:SER:HB3	1.94	0.67
2:CE:71:VAL:CG2	2:CE:164:VAL:HG22	2.25	0.67
2:CE:165:VAL:HG23	2:CE:166:ASP:H	1.57	0.67
10:CM:54:PHE:CZ	10:CM:55:LYS:NZ	2.61	0.67
24:DA:1007:C:O3'	32:DM:108:PRO:HB3	1.94	0.67
24:DA:1262:A:N3	50:D5:10:LYS:HE3	2.09	0.67
24:DA:1528:A:O2'	24:DA:1529:A:H5'	1.95	0.67
24:DA:2654:A:H4'	24:DA:2655:G:OP1	1.93	0.67
27:DE:26:ILE:HD13	27:DE:27:LEU:N	2.10	0.67
30:DH:88:LEU:HD22	30:DH:88:LEU:H	1.58	0.67
35:DP:104:PHE:HE1	35:DP:125:LEU:HD11	1.58	0.67
49:D4:16:CYS:SG	49:D4:33:VAL:HB	2.35	0.67
51:D6:48:VAL:HG13	51:D6:49:HIS:H	1.60	0.67
1:AA:598:U:H2'	1:AA:599:C:C6	2.30	0.67
1:AA:754:C:H3'	1:AA:754:C:O2	1.94	0.67
1:AA:1418:A:H2	24:BA:1948:G:N3	1.93	0.67
2:AE:22:LYS:HA	2:AE:40:HIS:CE1	2.29	0.67
2:AE:102:LEU:HD12	2:AE:102:LEU:H	1.59	0.67
6:AI:28:ARG:NH1	6:AI:28:ARG:HA	2.08	0.67
9:AL:17:VAL:HG11	9:AL:81:ILE:HD13	1.75	0.67
13:AP:19:LEU:HD11	13:AP:56:LEU:HD11	1.77	0.67
18:AU:50:ILE:HD12	18:AU:70:ILE:HD13	1.75	0.67
24:BA:67:U:H2'	24:BA:68:G:C8	2.30	0.67
24:BA:83:G:O2'	24:BA:84:A:C8	2.48	0.67
24:BA:2756:U:O2'	24:BA:2757:A:H5"	1.94	0.67
27:BE:48:GLN:CD	27:BE:78:LEU:HD12	2.19	0.67
30:BH:124:GLU:CD	30:BH:124:GLU:N	2.53	0.67
31:BK:3:VAL:HA	31:BK:39:ALA:HB2	1.77	0.67
34:BO:64:LYS:HG3	53:B8:30:ARG:NH2	2.09	0.67
40:B2:1:MET:H2	40:B2:16:PRO:HD3	1.60	0.67
42:BT:88:LYS:HE2	42:BT:90:GLU:OE2	1.95	0.67
43:BU:97:ARG:H	43:BU:97:ARG:HD3	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:85:LEU:HA	46:BZ:87:PRO:HD2	1.77	0.67
1:CA:405:U:H3'	1:CA:406:G:H5'	1.76	0.67
1:CA:606:G:H1	1:CA:631:G:H5'	1.60	0.67
1:CA:1139:G:H4'	1:CA:1140:C:O5'	1.94	0.67
3:CF:150:LYS:HB3	3:CF:201:TYR:HB2	1.75	0.67
4:CG:29:PRO:C	4:CG:30:LYS:HD3	2.19	0.67
7:CJ:28:ASN:O	7:CJ:31:MET:HB3	1.95	0.67
9:CL:46:ALA:HA	9:CL:78:LYS:HB2	1.75	0.67
24:DA:270(P):C:O2'	24:DA:270(Q):C:H5'	1.95	0.67
24:DA:2474:C:H3'	24:DA:2475:C:H6	1.60	0.67
28:DF:107:LYS:O	28:DF:108:LYS:C	2.37	0.67
33:DN:25:LEU:HB2	33:DN:38:VAL:HG13	1.74	0.67
38:DR:108:ARG:HA	38:DR:111:ARG:CZ	2.24	0.67
39:D1:90:VAL:O	39:D1:92:ARG:N	2.26	0.67
40:D2:44:LYS:O	40:D2:46:VAL:N	2.28	0.67
1:AA:179:A:H2'	1:AA:180:U:C6	2.30	0.67
2:AE:7:VAL:HG13	2:AE:8:LYS:H	1.58	0.67
2:AE:24:TRP:H	2:AE:24:TRP:HD1	1.41	0.67
3:AF:29:TYR:OH	14:AQ:54:PRO:HD2	1.93	0.67
6:AI:45:LEU:HD11	6:AI:57:GLN:NE2	2.10	0.67
22:AC:75:C:OP2	22:AC:76:A:H5'	1.94	0.67
24:BA:2020:A:OP1	39:B1:27:LEU:HD23	1.95	0.67
25:BB:45:A:H2'	25:BB:45:A:N3	2.10	0.67
29:BG:111:LEU:HD22	29:BG:120:LEU:HD21	1.75	0.67
31:BK:6:LEU:HA	31:BK:15:VAL:HG13	1.76	0.67
1:CA:187:C:H2'	1:CA:188:U:O4'	1.95	0.67
1:CA:690:G:H2'	1:CA:691:G:O4'	1.94	0.67
9:CL:33:PHE:CZ	9:CL:47:LEU:HD21	2.30	0.67
15:CR:61:GLY:C	15:CR:65:ARG:HH12	2.02	0.67
16:CS:21:VAL:HG11	16:CS:59:TRP:CD1	2.30	0.67
24:DA:649:G:H2'	24:DA:650:C:C6	2.30	0.67
24:DA:1673:U:H2'	24:DA:1674:G:H5'	1.77	0.67
27:DE:62:PRO:O	27:DE:64:LYS:N	2.28	0.67
28:DF:46:ARG:HH11	28:DF:46:ARG:CG	2.04	0.67
35:DP:12:GLN:CG	35:DP:73:PRO:HD2	2.21	0.67
50:D5:4:HIS:HB3	50:D5:5:PRO:HD3	1.75	0.67
1:AA:328:C:O2'	1:AA:329:A:OP2	2.13	0.67
4:AG:29:PRO:HG2	4:AG:30:LYS:N	2.03	0.67
4:AG:101:LEU:HB2	4:AG:138:TYR:HB3	1.75	0.67
5:AH:145:LYS:HE2	5:AH:149:GLU:OE1	1.94	0.67
13:AP:46:LYS:O	13:AP:46:LYS:HG3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AT:52:LYS:HD2	17:AT:52:LYS:H	1.59	0.67
24:BA:492:A:H2'	24:BA:493:G:O4'	1.95	0.67
24:BA:1142:U:H2'	24:BA:1142:U:O2	1.93	0.67
24:BA:2439:A:C8	24:BA:2439:A:H5'	2.29	0.67
24:BA:2780:G:OP2	32:BM:118:LYS:HE2	1.95	0.67
30:BH:38:SER:O	30:BH:40:GLU:N	2.28	0.67
30:BH:48:GLY:O	30:BH:49:VAL:HG12	1.94	0.67
38:BR:19:LEU:HD22	38:BR:86:ILE:CG2	2.24	0.67
42:BT:55:ASN:HB2	42:BT:80:ILE:CG1	2.25	0.67
48:BX:47:VAL:HG11	48:BX:56:VAL:HG21	1.76	0.67
1:CA:254:G:H21	17:CT:16:GLN:NE2	1.92	0.67
1:CA:923:A:H2'	1:CA:924:C:H6	1.58	0.67
1:CA:1229:A:OP1	13:CP:116:THR:HG23	1.95	0.67
1:CA:1274:G:N2	1:CA:1275:A:N7	2.43	0.67
2:CE:164:VAL:HB	2:CE:186:ALA:CB	2.25	0.67
9:CL:28:VAL:HG13	9:CL:63:ILE:CG2	2.24	0.67
10:CM:6:ILE:HD11	10:CM:72:VAL:CB	2.24	0.67
17:CT:56:VAL:HB	17:CT:78:GLU:HB3	1.76	0.67
22:CD:28:C:H2'	22:CD:29:G:H8	1.60	0.67
24:DA:1929:G:H5"	24:DA:1930:G:OP1	1.94	0.67
25:DB:31:C:N4	37:DQ:32:LEU:HD13	2.09	0.67
28:DF:34:TRP:HA	34:DO:6:LEU:HD12	1.77	0.67
33:DN:13:ASN:ND2	33:DN:96:THR:O	2.27	0.67
35:DP:80:GLU:HA	35:DP:80:GLU:OE2	1.94	0.67
1:AA:815:A:H5"	1:AA:817:C:N4	2.09	0.67
1:AA:1381:U:H1'	7:AJ:79:ARG:HH12	1.59	0.67
7:AJ:38:LEU:H	7:AJ:38:LEU:HD12	1.59	0.67
11:AN:13:GLN:H	11:AN:13:GLN:CD	2.03	0.67
24:BA:654(R):C:C2	24:BA:654(R):C:H3'	2.29	0.67
24:BA:1665:A:H4'	33:BN:67:LYS:HB2	1.76	0.67
27:BE:103:ASP:OD1	27:BE:201:THR:HG23	1.94	0.67
29:BG:43:LEU:O	29:BG:88:ILE:HG12	1.95	0.67
29:BG:118:ARG:HH11	29:BG:118:ARG:HG2	1.59	0.67
30:BH:58:GLU:O	30:BH:62:LYS:HG3	1.95	0.67
32:BM:112:LEU:HD23	32:BM:113:GLY:N	2.10	0.67
37:BQ:15:ARG:HH12	37:BQ:25:ARG:HE	1.42	0.67
37:BQ:108:GLY:C	37:BQ:110:LEU:H	2.03	0.67
43:BU:46:LYS:HD3	43:BU:63:LYS:HB3	1.77	0.67
1:CA:77:C:H2'	1:CA:78:G:C5'	2.25	0.67
1:CA:440:A:H3'	1:CA:442:C:H6	1.58	0.67
1:CA:794:A:H5'	1:CA:794:A:C8	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1241:G:H2'	1:CA:1242:C:H6	1.60	0.67
10:CM:34:VAL:HG22	10:CM:74:ILE:HG22	1.77	0.67
11:CN:91:ARG:HH22	18:CU:88:LYS:HZ3	1.41	0.67
22:CD:37:A:O2'	22:CD:38:A:H5'	1.95	0.67
24:DA:2250:G:C6	35:DP:82:ARG:HD2	2.29	0.67
24:DA:2341:G:H2'	24:DA:2342:C:C6	2.30	0.67
24:DA:2567:G:H2'	24:DA:2568:C:C6	2.30	0.67
40:D2:53:GLU:HG2	40:D2:53:GLU:O	1.94	0.67
41:DS:8:ARG:HD3	41:DS:102:HIS:CD2	2.30	0.67
43:DU:60:PHE:O	43:DU:61:ILE:HD12	1.95	0.67
46:DZ:86:SER:N	46:DZ:87:PRO:HD2	2.10	0.67
48:DX:29:ARG:HB2	48:DX:29:ARG:NH1	2.10	0.67
51:D6:43:CYS:SG	51:D6:44:ARG:HD3	2.35	0.67
1:AA:890:G:O2'	1:AA:891:U:OP2	2.13	0.66
1:AA:954:G:H2'	1:AA:955:U:C6	2.30	0.66
9:AL:26:VAL:O	9:AL:61:ALA:HB3	1.95	0.66
18:AU:18:ARG:HB2	18:AU:18:ARG:NH1	2.10	0.66
18:AU:53:ARG:NH2	18:AU:59:SER:HA	2.10	0.66
24:BA:273(E):U:O2'	24:BA:273(F):C:H5'	1.94	0.66
24:BA:1280:G:C3'	24:BA:1281:G:H5"	2.24	0.66
24:BA:2584:U:C6	24:BA:2585:U:C5	2.83	0.66
28:BF:125:LEU:H	28:BF:125:LEU:CD2	2.04	0.66
30:BH:125:VAL:CG1	30:BH:126:PRO:HG3	2.25	0.66
39:B1:65:ILE:HD11	39:B1:96:ALA:HB3	1.76	0.66
39:B1:85:LYS:C	39:B1:87:GLY:H	2.03	0.66
40:B2:12:TYR:OH	40:B2:22:VAL:HG23	1.94	0.66
47:BW:17:SER:HB2	47:BW:18:PRO:C	2.19	0.66
50:B5:40:LYS:HE3	50:B5:46:CYS:N	2.09	0.66
1:CA:788:U:C2'	1:CA:789:U:H5'	2.25	0.66
2:CE:215:LEU:O	2:CE:219:VAL:HG23	1.94	0.66
24:DA:586:A:H5'	28:DF:89:VAL:HG21	1.76	0.66
24:DA:1023:U:H2'	24:DA:1024:G:H5'	1.76	0.66
26:DD:35:LYS:CA	26:DD:64:ILE:HG22	2.25	0.66
26:DD:241:PRO:O	26:DD:243:GLY:N	2.29	0.66
34:DO:61:ARG:H	34:DO:61:ARG:CD	2.09	0.66
46:DZ:56:GLN:N	46:DZ:56:GLN:HE21	1.93	0.66
46:DZ:83:GLU:HG2	46:DZ:84:GLY:N	2.09	0.66
1:AA:129(A):G:O2'	1:AA:189:U:H3'	1.96	0.66
1:AA:973:G:C1'	10:AM:55:LYS:HG2	2.26	0.66
7:AJ:38:LEU:O	7:AJ:42:ILE:HG13	1.96	0.66
7:AJ:78:ARG:NH2	7:AJ:156:TRP:CZ2	2.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:20:ARG:O	9:AL:22:GLY:N	2.27	0.66
24:BA:458:G:H5"	52:B7:38:GLY:O	1.94	0.66
24:BA:1312:U:H4'	24:BA:1313:U:O5'	1.96	0.66
24:BA:1344:G:H5'	24:BA:1384:A:N6	2.09	0.66
24:BA:2777:G:H5"	24:BA:2778:A:OP1	1.95	0.66
34:BO:62:LEU:HD13	34:BO:62:LEU:O	1.95	0.66
35:BP:43:THR:C	35:BP:45:GLN:H	2.03	0.66
48:BX:23:LEU:HA	48:BX:26:LEU:HD12	1.77	0.66
51:B6:34:LEU:O	51:B6:36:LEU:HG	1.95	0.66
51:B6:42:TRP:HD1	51:B6:44:ARG:HH11	1.43	0.66
1:CA:562:C:O2'	12:CO:15:ARG:HD2	1.94	0.66
1:CA:1222:G:P	19:CV:77:THR:HG21	2.35	0.66
1:CA:1327:C:OP1	21:CX:21:TYR:HD1	1.78	0.66
3:CF:73:PRO:O	3:CF:76:VAL:HG22	1.95	0.66
20:CW:97:ALA:O	20:CW:99:LEU:N	2.27	0.66
24:DA:664:C:H4'	24:DA:941:A:OP1	1.96	0.66
24:DA:784:A:C5	26:DD:229:VAL:HG21	2.31	0.66
24:DA:1062:G:H2'	24:DA:1063:G:C8	2.30	0.66
24:DA:1577:C:H2'	24:DA:1578:U:O4'	1.95	0.66
27:DE:51:PHE:O	27:DE:52:LEU:C	2.38	0.66
29:DG:179:PRO:HG3	49:D4:38:LYS:HZ2	1.59	0.66
31:DK:79:ILE:HG21	31:DK:142:VAL:HG12	1.77	0.66
41:DS:18:ARG:HG3	41:DS:76:VAL:HG13	1.77	0.66
1:AA:173:U:H1'	1:AA:197:A:C2	2.30	0.66
1:AA:325:A:OP2	20:AW:70:SER:HB2	1.95	0.66
1:AA:760:G:H2'	1:AA:761:G:H5'	1.77	0.66
1:AA:1129:C:C5'	1:AA:1130:A:H5'	2.25	0.66
1:AA:1145:C:H2'	1:AA:1145:C:O2	1.95	0.66
1:AA:1443:G:N7	38:BR:118:ARG:HB3	2.10	0.66
6:AI:30:LEU:HD23	6:AI:75:LEU:HD11	1.77	0.66
10:AM:53:PRO:HA	14:AQ:42:ILE:HD11	1.77	0.66
24:BA:277:C:H3'	24:BA:278:A:H8	1.60	0.66
24:BA:1043:C:H3'	24:BA:1044:G:H5"	1.76	0.66
24:BA:1088:A:H4'	24:BA:1089:G:C8	2.30	0.66
27:BE:34:VAL:HG21	27:BE:78:LEU:HD13	1.75	0.66
29:BG:60:LEU:HD21	29:BG:92:VAL:HG11	1.76	0.66
29:BG:68:PRO:HA	29:BG:92:VAL:HB	1.77	0.66
51:B6:15:GLU:CG	51:B6:47:THR:HG21	2.25	0.66
52:B7:19:ARG:HH11	52:B7:19:ARG:HG2	1.61	0.66
1:CA:373:A:O2'	1:CA:374:A:H5'	1.94	0.66
1:CA:1490:C:O2'	1:CA:1491:G:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:140:ARG:CZ	3:CF:140:ARG:HB2	2.25	0.66
8:CK:100:ILE:HB	8:CK:125:ARG:NH1	2.09	0.66
13:CP:3:ARG:HD2	13:CP:9:ILE:HG12	1.77	0.66
24:DA:690:G:H2'	24:DA:691:C:C6	2.30	0.66
24:DA:1098:A:C2'	24:DA:1099:G:H5"	2.25	0.66
24:DA:1341:U:OP1	24:DA:1602:U:H2'	1.95	0.66
27:DE:28:ALA:O	27:DE:93:VAL:HG23	1.96	0.66
32:DM:57:ALA:HA	32:DM:60:ILE:HD11	1.78	0.66
35:DP:32:TYR:HD1	35:DP:133:ARG:HA	1.60	0.66
39:D1:88:ILE:HD13	39:D1:88:ILE:N	2.10	0.66
46:DZ:73:LEU:C	46:DZ:75:GLU:H	2.03	0.66
46:DZ:87:PRO:O	46:DZ:88:LYS:C	2.37	0.66
50:D5:56:LYS:H	50:D5:56:LYS:CD	2.07	0.66
1:AA:1205:U:H1'	3:AF:195:VAL:HG21	1.78	0.66
1:AA:1532:U:O2'	1:AA:1533:C:OP2	2.10	0.66
2:AE:171:ALA:HA	2:AE:174:VAL:HG23	1.77	0.66
2:AE:187:LEU:O	2:AE:187:LEU:HD13	1.96	0.66
3:AF:87:LEU:H	3:AF:87:LEU:CD2	2.08	0.66
4:AG:145:GLU:HG3	4:AG:184:LYS:HZ2	1.58	0.66
6:AI:1:MET:CE	6:AI:68:PRO:HD3	2.23	0.66
10:AM:89:ASP:C	10:AM:90:LEU:HD12	2.19	0.66
24:BA:796:C:H2'	24:BA:797:C:H6	1.61	0.66
24:BA:858:U:O2'	24:BA:2268:A:H2'	1.95	0.66
24:BA:988:A:H3'	48:BX:11:SER:OG	1.95	0.66
24:BA:1053:C:H2'	24:BA:1054:A:H5"	1.75	0.66
24:BA:1151:G:H2'	24:BA:1152:C:H6	1.60	0.66
26:BD:196:VAL:HG12	26:BD:197:GLY:N	2.10	0.66
29:BG:181:ARG:HG2	29:BG:181:ARG:O	1.95	0.66
37:BQ:26:LEU:HD22	37:BQ:87:PHE:CD1	2.31	0.66
40:B2:45:THR:C	40:B2:47:VAL:H	2.03	0.66
44:BV:91:LEU:H	44:BV:91:LEU:CD2	2.03	0.66
49:B4:2:LYS:HD2	49:B4:2:LYS:H	1.60	0.66
1:CA:992:U:O2'	1:CA:993:G:OP2	2.14	0.66
4:CG:79:PHE:C	4:CG:79:PHE:CD2	2.71	0.66
8:CK:84:ARG:HG3	8:CK:84:ARG:NH1	2.10	0.66
23:C1:24:A:H8	23:C1:24:A:O5'	1.77	0.66
24:DA:481:G:H1'	24:DA:506:G:H21	1.58	0.66
24:DA:1918:A:O2'	24:DA:1919:A:N7	2.29	0.66
24:DA:2474:C:H5"	24:DA:2475:C:C5	2.30	0.66
26:DD:68:LYS:HB2	26:DD:70:TRP:CZ3	2.31	0.66
32:DM:134:ARG:N	32:DM:135:PRO:HD3	1.97	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DO:122:PRO:HA	34:DO:141:ALA:O	1.95	0.66
41:DS:60:ASN:C	41:DS:61:ASN:HD22	2.03	0.66
43:DU:75:ILE:HG12	43:DU:76:CYS:N	2.10	0.66
45:D3:11:ARG:HG2	45:D3:11:ARG:HH11	1.59	0.66
47:DW:47:ASN:H	47:DW:47:ASN:ND2	1.92	0.66
47:DW:65:ASN:HB3	47:DW:69:ARG:NH1	2.10	0.66
49:D4:71:ARG:HH11	49:D4:71:ARG:CG	1.98	0.66
1:AA:421:U:O2	1:AA:421:U:H2'	1.95	0.66
1:AA:821:G:H2'	1:AA:822:C:C6	2.31	0.66
11:AN:10:VAL:O	11:AN:11:LYS:HB3	1.96	0.66
18:AU:31:LEU:CD1	18:AU:65:ILE:HD13	2.24	0.66
22:AD:18:G:H1'	22:AD:58:A:C2	2.31	0.66
24:BA:669:G:H2'	24:BA:669:G:N3	2.10	0.66
24:BA:1789:A:H2'	24:BA:1790:C:O4'	1.96	0.66
24:BA:2168:G:N1	24:BA:2170:A:OP2	2.28	0.66
24:BA:2747:G:H21	24:BA:2757:A:H62	1.44	0.66
24:BA:2867:G:O2'	24:BA:2868:A:C8	2.48	0.66
28:BF:101:LEU:HD12	28:BF:102:PRO:HD2	1.77	0.66
35:BP:59:ARG:O	35:BP:60:ARG:HB2	1.95	0.66
39:B1:49:HIS:HA	39:B1:52:ARG:HB2	1.77	0.66
39:B1:81:HIS:O	39:B1:84:LYS:HB3	1.95	0.66
42:BT:67:GLY:O	42:BT:69:TYR:N	2.27	0.66
43:BU:69:ALA:O	43:BU:72:VAL:HG22	1.96	0.66
45:B3:43:THR:O	45:B3:43:THR:HG23	1.96	0.66
52:B7:5:TRP:NE1	52:B7:7:PRO:HG3	2.09	0.66
1:CA:160:A:H61	1:CA:347:G:H1'	1.61	0.66
1:CA:838:G:H2'	1:CA:841:U:H5"	1.78	0.66
1:CA:873:A:H8	1:CA:873:A:O5'	1.78	0.66
4:CG:52:SER:O	4:CG:56:VAL:HG23	1.96	0.66
18:CU:70:ILE:O	18:CU:74:ARG:HG3	1.95	0.66
20:CW:89:ARG:NH2	20:CW:104:LEU:HD21	2.09	0.66
24:DA:1812:A:O2'	26:DD:45:ASN:HB2	1.94	0.66
24:DA:2011:U:C2'	24:DA:2012:G:H5'	2.24	0.66
24:DA:2552:U:O2	24:DA:2554:U:H5'	1.96	0.66
26:DD:135:PHE:N	26:DD:135:PHE:CD2	2.62	0.66
26:DD:172:TYR:HB3	26:DD:184:LYS:HG2	1.77	0.66
28:DF:103:LYS:HA	28:DF:106:ARG:CG	2.21	0.66
32:DM:58:ASP:H	32:DM:60:ILE:CD1	2.09	0.66
34:DO:66:GLY:O	34:DO:67:MET:HB3	1.94	0.66
42:DT:11:PRO:HB3	42:DT:92:LEU:HD21	1.78	0.66
22:CB:9:G:O2'	22:CB:46:G:H2'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:689:C:H2'	1:AA:690:G:C5'	2.26	0.66
1:AA:878:G:C5'	8:AK:89:PRO:HG2	2.25	0.66
1:AA:1096:C:O2'	1:AA:1097:C:H5'	1.96	0.66
3:AF:204:LEU:O	3:AF:205:GLY:O	2.13	0.66
9:AL:96:LEU:HD23	9:AL:102:LEU:HD12	1.77	0.66
24:BA:141:A:H8	24:BA:1408:C:H1'	1.60	0.66
25:BB:2:C:H2'	25:BB:3:C:H6	1.60	0.66
26:BD:260:ARG:NH1	26:BD:264:LYS:HD3	2.09	0.66
30:BH:37:VAL:HG13	30:BH:39:PRO:HD3	1.78	0.66
30:BH:59:ARG:C	30:BH:61:HIS:H	2.04	0.66
31:BK:6:LEU:HD13	31:BK:36:ALA:HA	1.76	0.66
37:BQ:10:ARG:O	37:BQ:14:VAL:HG12	1.96	0.66
43:BU:12:THR:HG22	43:BU:13:VAL:N	2.10	0.66
44:BV:157:LEU:CB	44:BV:161:VAL:HG11	2.24	0.66
46:BZ:52:ARG:HD2	46:BZ:56:GLN:C	2.21	0.66
46:BZ:94:LEU:HD23	46:BZ:94:LEU:H	1.61	0.66
1:CA:95:G:H2'	1:CA:96:G:H5'	1.77	0.66
1:CA:1158:C:H4'	2:CE:133:LYS:NZ	2.10	0.66
4:CG:52:SER:HB3	4:CG:55:ALA:HB2	1.77	0.66
5:CH:75:THR:HG23	5:CH:76:ILE:N	2.11	0.66
7:CJ:69:VAL:HG12	7:CJ:69:VAL:O	1.95	0.66
13:CP:74:VAL:O	13:CP:78:ILE:HG13	1.96	0.66
13:CP:81:LEU:O	13:CP:84:ILE:HG22	1.95	0.66
22:CD:72:A:O2'	22:CD:73:A:H5'	1.96	0.66
24:DA:905:U:C3'	24:DA:906:G:H5"	2.24	0.66
24:DA:1478:G:O2'	24:DA:1479:G:H5'	1.94	0.66
24:DA:1668:A:H61	24:DA:1676:A:H61	1.42	0.66
24:DA:2061:G:OP2	24:DA:2502:G:H5'	1.95	0.66
24:DA:2312:U:H6	24:DA:2312:U:O5'	1.79	0.66
25:DB:103:U:O3'	44:DV:72:ARG:HD3	1.96	0.66
29:DG:136:ARG:O	29:DG:154:GLY:HA3	1.95	0.66
31:DK:127:VAL:HA	31:DK:139:GLN:HA	1.76	0.66
34:DO:61:ARG:NH2	53:D8:13:ARG:HD2	2.10	0.66
34:DO:81:GLN:NE2	34:DO:106:LEU:O	2.29	0.66
44:DV:112:ARG:NH2	44:DV:145:GLU:HA	2.10	0.66
50:D5:40:LYS:NZ	50:D5:48:GLU:HB2	2.10	0.66
53:D8:30:ARG:O	53:D8:31:HIS:HB2	1.96	0.66
1:AA:690:G:H22	11:AN:55:LYS:HZ3	1.41	0.66
1:AA:945:G:C2	1:AA:946:A:C8	2.84	0.66
1:AA:1037:C:H2'	1:AA:1038:C:O4'	1.96	0.66
2:AE:166:ASP:HB3	2:AE:169:LYS:CB	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:17:VAL:HG11	4:AG:197:PRO:CB	2.25	0.66
8:AK:40:ALA:HB2	8:AK:45:ILE:CG1	2.25	0.66
24:BA:270(N):G:H1'	24:BA:270(P):C:O4'	1.96	0.66
24:BA:270(P):C:H2'	24:BA:270(Q):C:C6	2.30	0.66
24:BA:506:G:H4'	24:BA:507:A:O5'	1.96	0.66
24:BA:807:U:H2'	24:BA:808:G:C8	2.30	0.66
24:BA:1171:G:O2'	24:BA:1173:G:O4'	2.14	0.66
24:BA:1434:A:H61	24:BA:1558:A:H62	1.38	0.66
24:BA:1504:C:C2'	24:BA:1505:C:H5"	2.24	0.66
24:BA:2820:A:O4'	36:B0:4:LEU:HD23	1.96	0.66
26:BD:24:ILE:O	26:BD:24:ILE:HG23	1.95	0.66
28:BF:126:VAL:O	28:BF:196:LEU:HG	1.95	0.66
42:BT:35:THR:HG22	42:BT:37:THR:H	1.60	0.66
44:BV:5:LEU:HD11	44:BV:39:VAL:CG1	2.25	0.66
44:BV:137:ILE:CG2	44:BV:157:LEU:HD11	2.25	0.66
52:B7:8:ASN:C	52:B7:8:ASN:ND2	2.53	0.66
1:CA:16:A:O2'	1:CA:17:U:H5'	1.96	0.66
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.30	0.66
1:CA:1374:A:H2'	1:CA:1375:A:H5'	1.76	0.66
1:CA:1533:C:C2'	1:CA:1534:A:H5"	2.26	0.66
24:DA:1689:A:H62	24:DA:1698:A:H2	1.42	0.66
24:DA:2656:U:H5	24:DA:2664:G:H21	1.43	0.66
24:DA:2701:C:C3'	24:DA:2702:U:H5"	2.12	0.66
31:DK:77:LEU:C	31:DK:77:LEU:HD12	2.21	0.66
35:DP:20:ALA:HB1	35:DP:99:PRO:HD2	1.77	0.66
35:DP:88:GLY:C	35:DP:90:VAL:H	2.02	0.66
37:DQ:107:GLU:H	37:DQ:110:LEU:HD11	1.60	0.66
46:DZ:11:ARG:HB3	46:DZ:11:ARG:HH11	1.61	0.66
1:AA:168:G:H2'	1:AA:169:C:C5'	2.24	0.66
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.78	0.66
1:AA:1532:U:O4	23:A1:9:G:H5'	1.96	0.66
4:AG:38:TYR:CD1	4:AG:45:GLN:HB3	2.30	0.66
7:AJ:155:ARG:HH11	7:AJ:155:ARG:HG2	1.59	0.66
12:AO:126:LYS:H	12:AO:126:LYS:CD	2.07	0.66
19:AV:40:ILE:HG12	19:AV:69:HIS:O	1.96	0.66
24:BA:1104:C:H2'	24:BA:1105:U:C6	2.31	0.66
24:BA:2165:G:H2'	24:BA:2166:G:C2	2.31	0.66
28:BF:195:ASP:OD1	28:BF:197:ASP:HB3	1.96	0.66
30:BH:50:VAL:HG23	30:BH:51:ARG:NH2	2.11	0.66
31:BK:3:VAL:HB	31:BK:37:VAL:O	1.96	0.66
32:BM:68:GLU:HG2	32:BM:88:GLU:OE1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:99:CYS:SG	43:BU:100:ALA:N	2.69	0.66
46:BZ:87:PRO:O	46:BZ:90:ILE:HG22	1.95	0.66
47:BW:24:LEU:HD23	47:BW:24:LEU:O	1.96	0.66
1:CA:688:G:H2'	1:CA:689:C:H6	1.59	0.66
10:CM:39:PRO:HB3	10:CM:70:ARG:HH12	1.61	0.66
19:CV:35:SER:O	19:CV:71:LEU:HD12	1.96	0.66
24:DA:83:G:H1	24:DA:102:G:H2'	1.60	0.66
24:DA:153:C:P	46:DZ:88:LYS:HE2	2.36	0.66
24:DA:270(Q):C:H2'	24:DA:270(R):G:O4'	1.95	0.66
24:DA:1332:G:H5"	24:DA:1333:C:OP2	1.95	0.66
27:DE:37:ARG:HA	27:DE:37:ARG:NE	2.11	0.66
39:D1:65:ILE:HG12	39:D1:96:ALA:CB	2.26	0.66
43:DU:94:LYS:HE3	43:DU:101:LYS:NZ	2.11	0.66
46:DZ:80:LEU:HD23	46:DZ:80:LEU:N	2.10	0.66
1:AA:280:C:O2'	1:AA:281:G:OP1	2.13	0.66
1:AA:1227:A:C4	13:AP:117:VAL:HG21	2.31	0.66
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.31	0.66
2:AE:88:ALA:HB2	2:AE:219:VAL:CG2	2.24	0.66
2:AE:115:LEU:HD13	2:AE:145:LEU:HD12	1.77	0.66
8:AK:63:LEU:HD22	8:AK:63:LEU:H	1.61	0.66
12:AO:47:LYS:HB3	12:AO:48:PRO:HD3	1.76	0.66
22:AD:21:A:H4'	22:AD:21:A:OP1	1.95	0.66
24:BA:283:A:O2'	24:BA:284:U:OP1	2.14	0.66
24:BA:583:G:H5"	39:B1:10:ARG:NH1	2.11	0.66
24:BA:2051:A:H2'	24:BA:2614:A:H61	1.59	0.66
24:BA:2173:A:C6	24:BA:2174:C:H1'	2.31	0.66
24:BA:2283:C:H5'	51:B6:8:LYS:CE	2.25	0.66
26:BD:72:LYS:HB3	26:BD:72:LYS:NZ	2.10	0.66
28:BF:160:ASN:CG	28:BF:163:VAL:HG23	2.21	0.66
31:BK:13:GLY:HA3	31:BK:17:GLN:HE22	1.60	0.66
34:BO:66:GLY:O	34:BO:67:MET:CB	2.44	0.66
35:BP:64:ILE:N	35:BP:64:ILE:HD13	2.11	0.66
38:BR:106:SER:HB2	38:BR:110:ILE:HD12	1.77	0.66
43:BU:47:LYS:HG3	43:BU:60:PHE:HB3	1.78	0.66
47:BW:33:MET:HE3	47:BW:37:PHE:CZ	2.31	0.66
1:CA:96:G:H5'	1:CA:96:G:H8	1.60	0.66
1:CA:982:U:H4'	1:CA:983:A:O5'	1.94	0.66
1:CA:1538:C:C3'	1:CA:1539:C:H5"	2.26	0.66
8:CK:20:TYR:HA	8:CK:65:TYR:HE2	1.60	0.66
19:CV:15:LEU:O	19:CV:19:VAL:N	2.26	0.66
22:CC:20:U:O2	22:CC:20:U:H2'	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:99:U:H4'	24:DA:101:G:H5"	1.76	0.66
26:DD:183:ARG:HH11	26:DD:183:ARG:CG	2.07	0.66
30:DH:125:VAL:CG1	30:DH:126:PRO:HG3	2.25	0.66
32:DM:45:ASN:N	32:DM:45:ASN:HD22	1.93	0.66
33:DN:110:GLY:HA2	33:DN:112:MET:HE3	1.77	0.66
43:DU:42:VAL:CG1	43:DU:65:ALA:HB3	2.25	0.66
44:DV:102:LEU:HD22	44:DV:156:LYS:NZ	2.11	0.66
1:AA:625:G:H2'	1:AA:626:U:C6	2.31	0.66
1:AA:939:G:H5"	7:AJ:102:ARG:HH22	1.58	0.66
1:AA:1127:G:N2	1:AA:1145:C:C2	2.64	0.66
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.96	0.66
3:AF:84:ILE:N	3:AF:87:LEU:HD23	2.11	0.66
4:AG:7:PRO:HB2	4:AG:10:ARG:HD2	1.77	0.66
4:AG:38:TYR:CE1	4:AG:45:GLN:HB3	2.31	0.66
7:AJ:140:ASP:HA	7:AJ:143:ARG:NH1	2.11	0.66
13:AP:4:ILE:HG12	13:AP:5:ALA:N	2.10	0.66
13:AP:118:ALA:CB	22:AC:29:G:H5'	2.25	0.66
15:AR:17:ARG:HG3	15:AR:17:ARG:HH11	1.61	0.66
22:AC:1:C:O2	22:AC:1:C:H2'	1.95	0.66
24:BA:30:G:H2'	24:BA:31:C:C6	2.31	0.66
24:BA:277:C:H3'	24:BA:278:A:C8	2.31	0.66
30:BH:124:GLU:O	30:BH:125:VAL:HB	1.95	0.66
30:BH:136:ILE:O	30:BH:137:ASP:HB2	1.95	0.66
30:BH:137:ASP:HB2	30:BH:140:LYS:HE2	1.77	0.66
34:BO:101:VAL:HG23	34:BO:107:LYS:N	2.11	0.66
35:BP:2:LEU:HD12	35:BP:2:LEU:H	1.59	0.66
44:BV:118:GLN:CG	44:BV:173:ALA:H	2.04	0.66
47:BW:13:ALA:HA	47:BW:16:LEU:HD11	1.77	0.66
51:B6:45:LYS:HG3	51:B6:46:HIS:O	1.96	0.66
1:CA:960:U:O2'	1:CA:961:U:OP2	2.12	0.66
1:CA:973:G:OP1	10:CM:57:LYS:NZ	2.28	0.66
1:CA:1453:G:H8	20:CW:39:LYS:HZ1	1.40	0.66
2:CE:14:GLY:O	2:CE:15:VAL:HG13	1.96	0.66
2:CE:24:TRP:H	2:CE:24:TRP:HD1	1.43	0.66
4:CG:11:LEU:HD22	4:CG:66:ARG:HD3	1.78	0.66
24:DA:1431:U:H2'	24:DA:1432:C:H6	1.60	0.66
24:DA:1819:A:H4'	24:DA:1820:U:O5'	1.96	0.66
24:DA:1917:U:H2'	24:DA:1918:A:O4'	1.96	0.66
24:DA:2691:C:H5'	24:DA:2691:C:H6	1.61	0.66
25:DB:81:G:O6	25:DB:96:G:C6	2.50	0.66
26:DD:35:LYS:HE3	26:DD:64:ILE:C	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:145:THR:HG23	49:D4:28:LYS:NZ	2.11	0.66
37:DQ:88:ASP:OD2	37:DQ:90:GLY:N	2.28	0.66
37:DQ:106:ARG:HA	37:DQ:110:LEU:CD2	2.26	0.66
41:DS:65:LEU:HD12	41:DS:68:ARG:NH1	2.10	0.66
43:DU:35:TYR:CE1	43:DU:69:ALA:HB3	2.31	0.66
43:DU:47:LYS:HG2	43:DU:60:PHE:CE1	2.31	0.66
1:AA:495:A:H4'	1:AA:496:A:O5'	1.95	0.65
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.32	0.65
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.11	0.65
1:AA:1347:G:HO2'	1:AA:1373:G:H1	1.43	0.65
2:AE:236:TYR:C	2:AE:238:LEU:H	2.05	0.65
4:AG:12:CYS:CB	4:AG:32:ALA:CB	2.70	0.65
4:AG:15:GLU:O	4:AG:16:GLY:C	2.37	0.65
7:AJ:79:ARG:HH11	7:AJ:79:ARG:HG3	1.61	0.65
9:AL:17:VAL:CG1	9:AL:81:ILE:HD13	2.27	0.65
15:AR:67:LEU:HD22	15:AR:78:TYR:HE1	1.60	0.65
22:AC:20:U:H3'	22:AC:21:A:C5'	2.21	0.65
24:BA:1416:G:H2'	24:BA:1417:C:C6	2.31	0.65
24:BA:2341:G:H2'	24:BA:2342:C:C6	2.31	0.65
24:BA:2791:C:O2	24:BA:2792:G:N7	2.29	0.65
26:BD:263:ARG:HH11	26:BD:263:ARG:HB3	1.60	0.65
27:BE:31:CYS:SG	27:BE:51:PHE:HB2	2.35	0.65
33:BN:2:ILE:CD1	33:BN:82:ASN:ND2	2.59	0.65
34:BO:15:ARG:O	34:BO:16:ARG:C	2.39	0.65
39:B1:104:GLN:HG2	39:B1:105:VAL:H	1.60	0.65
46:BZ:91:LYS:O	46:BZ:93:GLU:N	2.29	0.65
1:CA:173:U:H5"	1:CA:197:A:O4'	1.96	0.65
1:CA:1124:G:C3'	1:CA:1145:C:N4	2.55	0.65
4:CG:196:LEU:C	4:CG:198:VAL:H	2.02	0.65
6:CI:1:MET:HE1	6:CI:68:PRO:HB3	1.78	0.65
6:CI:41:GLU:O	6:CI:43:LEU:HD12	1.96	0.65
7:CJ:78:ARG:NH1	7:CJ:80:VAL:HG23	2.11	0.65
7:CJ:140:ASP:C	7:CJ:142:GLU:H	2.03	0.65
8:CK:29:SER:HB3	8:CK:32:LYS:CG	2.22	0.65
12:CO:26:ALA:O	12:CO:27:LEU:O	2.14	0.65
12:CO:48:PRO:CD	12:CO:49:ASN:N	2.57	0.65
16:CS:45:THR:HG22	16:CS:47:ASP:H	1.60	0.65
24:DA:275:G:N2	24:DA:276:A:H62	1.93	0.65
24:DA:1061:U:H4'	24:DA:1070:A:O4'	1.95	0.65
24:DA:1329:U:H5"	24:DA:1330:C:H5	1.60	0.65
24:DA:2700:C:O2'	24:DA:2701:C:H5'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DB:8:U:H5'	25:DB:8:U:C6	2.29	0.65
30:DH:124:GLU:HB3	30:DH:132:ARG:HD2	1.77	0.65
33:DN:86:ILE:HD12	33:DN:86:ILE:H	1.60	0.65
1:AA:1284:C:C2	1:AA:1285:A:N7	2.64	0.65
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.15	0.65
1:AA:1363:A:N3	1:AA:1363:A:H2'	2.11	0.65
2:AE:69:LEU:O	2:AE:162:ILE:HA	1.95	0.65
8:AK:29:SER:HB3	8:AK:32:LYS:HD2	1.77	0.65
13:AP:81:LEU:HD23	13:AP:86:CYS:SG	2.35	0.65
19:AV:36:ARG:HG3	19:AV:71:LEU:H	1.60	0.65
24:BA:769:G:O2'	24:BA:770:G:H5'	1.96	0.65
24:BA:991:C:O2'	24:BA:992:C:H5'	1.96	0.65
24:BA:2103:C:H2'	24:BA:2104:G:C8	2.30	0.65
24:BA:2206:C:O2'	24:BA:2207:C:H5'	1.96	0.65
24:BA:2688:U:H1'	24:BA:2721:A:H61	1.60	0.65
30:BH:26:VAL:O	30:BH:31:GLY:HA2	1.95	0.65
33:BN:9:GLU:H	33:BN:83:ALA:HA	1.60	0.65
39:B1:104:GLN:HG2	39:B1:105:VAL:N	2.12	0.65
40:B2:30:GLY:N	40:B2:61:VAL:HG11	2.11	0.65
40:B2:69:LYS:HD3	40:B2:85:LYS:CD	2.25	0.65
40:B2:69:LYS:HZ2	40:B2:85:LYS:HZ3	1.44	0.65
41:BS:12:ILE:HD13	41:BS:17:VAL:HG22	1.77	0.65
41:BS:88:ARG:HH11	41:BS:88:ARG:HG2	1.61	0.65
42:BT:43:VAL:CG2	42:BT:51:VAL:HG21	2.25	0.65
43:BU:40:GLU:N	43:BU:40:GLU:OE2	2.29	0.65
43:BU:80:GLY:O	43:BU:81:LYS:HG3	1.94	0.65
46:BZ:40:ARG:NH2	46:BZ:42:GLN:HG2	2.10	0.65
1:CA:1054:C:H2'	1:CA:1054:C:O2	1.96	0.65
1:CA:1225:A:H5"	1:CA:1226:C:OP2	1.96	0.65
8:CK:10:LEU:HD23	8:CK:10:LEU:H	1.60	0.65
8:CK:118:VAL:C	8:CK:119:LEU:HD23	2.21	0.65
17:CT:27:PHE:CZ	17:CT:36:ILE:HD11	2.31	0.65
20:CW:36:LEU:HD12	20:CW:55:ILE:HG23	1.76	0.65
24:DA:1190:G:OP1	34:DO:30:THR:OG1	2.14	0.65
24:DA:1364:G:OP2	46:DZ:2:SER:O	2.14	0.65
24:DA:1930:G:O2'	24:DA:1931:U:P	2.54	0.65
24:DA:2189:U:C3'	24:DA:2190:G:H5"	2.25	0.65
24:DA:2864:G:OP1	38:DR:119:LYS:HD2	1.95	0.65
26:DD:121:PRO:HB3	26:DD:135:PHE:CE1	2.30	0.65
26:DD:145:VAL:HG12	26:DD:146:GLU:O	1.95	0.65
27:DE:13:ARG:NH1	27:DE:21:VAL:HG12	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DN:113:LYS:O	33:DN:117:LEU:HD12	1.96	0.65
34:DO:90:ARG:NE	34:DO:91:PHE:HD1	1.93	0.65
1:AA:690:G:N2	11:AN:55:LYS:NZ	2.44	0.65
4:AG:128:VAL:O	4:AG:130:GLY:N	2.29	0.65
8:AK:10:LEU:HB3	8:AK:83:ILE:HD11	1.79	0.65
9:AL:19:LEU:HD23	9:AL:61:ALA:HA	1.77	0.65
24:BA:1179:C:H2'	24:BA:1180:C:H5"	1.78	0.65
24:BA:1332:G:N2	24:BA:1610:A:C8	2.64	0.65
28:BF:29:ASN:ND2	28:BF:32:LEU:HB2	2.11	0.65
28:BF:118:ALA:HB2	28:BF:123:LEU:HD22	1.77	0.65
29:BG:38:VAL:HG12	29:BG:158:ALA:HB3	1.78	0.65
32:BM:74:ARG:HH12	32:BM:85:ILE:HD12	1.61	0.65
35:BP:19:GLY:O	35:BP:98:LYS:HD3	1.96	0.65
40:B2:41:GLY:CA	40:B2:46:VAL:HG11	2.26	0.65
40:B2:69:LYS:CD	40:B2:85:LYS:HD2	2.26	0.65
41:BS:59:VAL:HA	41:BS:64:MET:H	1.61	0.65
43:BU:15:VAL:O	43:BU:22:GLY:HA3	1.95	0.65
1:CA:498:A:H4'	1:CA:500:G:OP1	1.96	0.65
1:CA:1322:C:H2'	1:CA:1322:C:O2	1.96	0.65
4:CG:52:SER:HB3	4:CG:55:ALA:CB	2.27	0.65
7:CJ:21:VAL:HG23	7:CJ:22:LEU:H	1.61	0.65
9:CL:53:VAL:HG21	9:CL:92:TYR:CE1	2.32	0.65
10:CM:38:ILE:HD11	10:CM:71:LEU:HB3	1.78	0.65
13:CP:65:LYS:HE2	49:D4:50:VAL:HG11	1.78	0.65
15:CR:26:GLU:CD	15:CR:77:ARG:HH12	2.03	0.65
24:DA:445:C:O2'	24:DA:446:G:H5'	1.97	0.65
24:DA:1092:C:H5'	24:DA:1092:C:H6	1.59	0.65
24:DA:2127:G:H2'	24:DA:2128:C:O4'	1.97	0.65
24:DA:2313:C:H5"	29:DG:91:ARG:HD3	1.79	0.65
24:DA:2875:C:H4'	38:DR:5:ALA:HB2	1.78	0.65
27:DE:36:ARG:HH11	27:DE:36:ARG:HB3	1.60	0.65
31:DK:125:GLU:HA	31:DK:125:GLU:OE1	1.96	0.65
33:DN:71:ARG:NH1	38:DR:74:ARG:HH21	1.94	0.65
44:DV:33:LEU:HD21	44:DV:35:ARG:HD2	1.77	0.65
1:AA:191(F):U:H2'	1:AA:191:G:H5'	1.79	0.65
1:AA:542:G:OP1	4:AG:10:ARG:NH2	2.30	0.65
1:AA:1000:A:OP1	1:AA:1000:A:O4'	2.14	0.65
1:AA:1182:G:C4'	1:AA:1183:A:H5'	2.26	0.65
4:AG:49:ARG:HA	4:AG:49:ARG:NE	2.12	0.65
24:BA:67:U:H2'	24:BA:68:G:H8	1.60	0.65
24:BA:90:U:O2'	24:BA:91:A:H8	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:654(S):G:H2'	24:BA:654(T):A:H8	1.60	0.65
24:BA:1252:G:N3	39:B1:33:ARG:HD2	2.11	0.65
24:BA:1820:U:H4'	24:BA:1821:A:OP2	1.95	0.65
24:BA:1997:G:O2'	24:BA:1998:G:H5'	1.97	0.65
24:BA:2129:C:H3'	24:BA:2130:U:C5'	2.26	0.65
24:BA:2211:G:N3	24:BA:2211:G:H2'	2.12	0.65
24:BA:2519:U:C4'	24:BA:2520:C:OP1	2.36	0.65
24:BA:2758:A:H2'	24:BA:2759:G:C5'	2.14	0.65
25:BB:15:A:H5'	25:BB:16:G:C8	2.31	0.65
26:BD:267:SER:C	26:BD:269:PHE:H	2.05	0.65
27:BE:64:LYS:HB2	27:BE:66:HIS:CD2	2.30	0.65
30:BH:51:ARG:HH11	30:BH:51:ARG:HG3	1.61	0.65
44:BV:9:TYR:O	44:BV:10:ARG:HB2	1.96	0.65
1:CA:1158:C:H2'	1:CA:1158:C:O2	1.95	0.65
1:CA:1267:C:O2	21:CX:20:LYS:HD2	1.96	0.65
2:CE:132:LYS:HA	2:CE:135:GLN:CD	2.22	0.65
10:CM:99:LYS:O	10:CM:100:THR:HG23	1.96	0.65
17:CT:74:LEU:HD12	17:CT:75:ARG:HG2	1.76	0.65
19:CV:10:PHE:CG	19:CV:11:VAL:N	2.65	0.65
24:DA:1709:U:H2'	24:DA:1710:C:C6	2.32	0.65
24:DA:2779:U:H1'	24:DA:2781:A:C5	2.30	0.65
26:DD:236:GLY:C	26:DD:237:GLU:OE1	2.40	0.65
27:DE:101:ARG:CZ	27:DE:171:GLU:HB2	2.26	0.65
30:DH:168:PRO:O	30:DH:169:VAL:HG12	1.96	0.65
31:DK:68:LEU:HA	31:DK:71:ILE:CG2	2.26	0.65
31:DK:75:LEU:HB3	31:DK:105:HIS:HE1	1.60	0.65
42:DT:65:ARG:HD3	42:DT:65:ARG:N	2.12	0.65
1:AA:335:C:H2'	1:AA:336:C:H6	1.61	0.65
1:AA:518:C:H5'	1:AA:519:C:C6	2.32	0.65
1:AA:975:A:H2	14:AQ:34:TYR:HH	1.44	0.65
1:AA:1158:C:O2	1:AA:1158:C:H2'	1.95	0.65
4:AG:146:ILE:HD12	4:AG:146:ILE:N	2.11	0.65
9:AL:79:LEU:HD11	9:AL:83:ARG:CZ	2.26	0.65
15:AR:89:GLY:HA3	24:BA:716:A:OP1	1.97	0.65
18:AU:85:LEU:HD12	18:AU:85:LEU:C	2.22	0.65
19:AV:49:ILE:H	19:AV:60:VAL:HG22	1.61	0.65
24:BA:907:U:OP1	35:BP:24:GLY:HA2	1.95	0.65
24:BA:2665:A:C2	24:BA:2666:C:H5	2.14	0.65
24:BA:2712(A):A:H5"	24:BA:2713:A:OP2	1.95	0.65
26:BD:139:GLY:H	26:BD:165:ILE:HB	1.62	0.65
27:BE:23:VAL:HA	27:BE:184:VAL:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:91:ARG:HD2	29:BG:91:ARG:C	2.21	0.65
32:BM:111:PRO:HA	32:BM:114:ARG:HH12	1.57	0.65
1:CA:1305:G:N2	1:CA:1331:G:H2'	2.11	0.65
1:CA:1493:A:H2'	24:DA:1913:A:N1	2.09	0.65
2:CE:7:VAL:HG22	2:CE:8:LYS:HD3	1.76	0.65
6:CI:96:PRO:HB3	18:CU:30:ASP:OD2	1.95	0.65
9:CL:112:LYS:HA	9:CL:119:ALA:HB2	1.77	0.65
11:CN:103:LEU:HD22	11:CN:103:LEU:H	1.62	0.65
14:CQ:42:ILE:O	14:CQ:43:CYS:C	2.39	0.65
20:CW:83:ARG:CA	20:CW:86:ARG:HB3	2.27	0.65
24:DA:405:U:H2'	24:DA:405:U:O2	1.96	0.65
24:DA:1188:U:C2'	24:DA:1189:A:H5'	2.27	0.65
24:DA:1372:U:H2'	24:DA:1373:A:H5'	1.78	0.65
24:DA:1404:C:O2'	24:DA:1405:U:H5'	1.96	0.65
24:DA:1639:U:C2'	24:DA:1640:C:H5"	2.25	0.65
24:DA:1929:G:H3'	24:DA:1929:G:H8	1.62	0.65
24:DA:1946:U:H2'	24:DA:1947:C:H6	1.59	0.65
24:DA:2061:G:H5"	24:DA:2503:A:C2	2.32	0.65
24:DA:2133:G:N2	24:DA:2158:A:N6	2.42	0.65
26:DD:80:ALA:HB3	26:DD:94:LEU:CD1	2.25	0.65
34:DO:39:LYS:HA	34:DO:45:LEU:HD13	1.79	0.65
36:D0:26:LYS:HE2	36:D0:70:LEU:O	1.95	0.65
47:DW:42:GLY:O	47:DW:44:LEU:N	2.30	0.65
1:AA:928:G:HO2'	1:AA:1533:C:HO2'	1.40	0.65
1:AA:1187:G:H21	14:AQ:60:SER:HB3	1.61	0.65
3:AF:34:LEU:HD13	14:AQ:25:VAL:HG11	1.77	0.65
3:AF:82:GLU:CD	3:AF:87:LEU:HD21	2.21	0.65
4:AG:165:MET:CE	4:AG:168:ARG:HB2	2.27	0.65
11:AN:110:ASP:HB3	18:AU:85:LEU:HD11	1.76	0.65
17:AT:81:ARG:CZ	17:AT:84:LEU:HD11	2.26	0.65
22:AD:66:C:H5'	22:AD:66:C:H6	1.60	0.65
24:BA:199:A:H4'	24:BA:200:U:OP1	1.95	0.65
24:BA:1074:G:H2'	24:BA:1075:C:C6	2.31	0.65
24:BA:1372:U:C5	24:BA:1373:A:N7	2.65	0.65
24:BA:1667:G:N2	24:BA:1993:U:O4	2.29	0.65
26:BD:235:GLY:C	26:BD:237:GLU:H	2.05	0.65
29:BG:146:TYR:O	29:BG:149:VAL:HG22	1.97	0.65
34:BO:57:THR:HG21	34:BO:60:MET:HB2	1.76	0.65
1:CA:192:U:C4'	20:CW:103:GLY:HA2	2.27	0.65
1:CA:625:G:H2'	1:CA:626:U:C6	2.30	0.65
1:CA:1228:C:OP1	13:CP:115:LYS:HE3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1385:G:O2'	1:CA:1386:G:H5'	1.97	0.65
3:CF:70:VAL:HG12	3:CF:71:ALA:N	2.10	0.65
3:CF:101:LEU:HD23	3:CF:102:ASN:N	2.11	0.65
7:CJ:11:GLN:O	7:CJ:12:LEU:HD13	1.97	0.65
15:CR:8:LYS:O	15:CR:12:ILE:HG13	1.96	0.65
24:DA:860:U:C5	24:DA:917:A:H2	2.14	0.65
24:DA:2751:G:H8	24:DA:2751:G:O5'	1.80	0.65
26:DD:27:THR:CG2	26:DD:28:GLU:H	2.08	0.65
34:DO:6:LEU:O	34:DO:7:ARG:HG2	1.96	0.65
34:DO:113:LYS:HG2	34:DO:115:LEU:HD23	1.79	0.65
38:DR:11:GLU:N	38:DR:11:GLU:OE1	2.27	0.65
44:DV:72:ARG:HH11	44:DV:72:ARG:CB	2.09	0.65
46:DZ:80:LEU:C	46:DZ:81:LYS:CD	2.69	0.65
47:DW:69:ARG:NH1	47:DW:69:ARG:HB2	2.11	0.65
1:AA:115:G:O2'	1:AA:116:A:OP2	2.13	0.65
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.31	0.65
3:AF:91:LEU:H	3:AF:91:LEU:CD1	2.07	0.65
7:AJ:32:ARG:O	7:AJ:33:ASP:HB2	1.95	0.65
11:AN:13:GLN:N	11:AN:13:GLN:OE1	2.30	0.65
11:AN:86:GLY:H	11:AN:112:THR:HG23	1.62	0.65
24:BA:242:G:H5"	53:B8:62:LEU:CD1	2.22	0.65
24:BA:388:G:OP1	46:BZ:31:GLY:HA2	1.96	0.65
24:BA:1062:G:H2'	24:BA:1063:G:H8	1.62	0.65
24:BA:1778:U:H2'	24:BA:1784:A:N6	2.12	0.65
25:BB:44:G:N7	49:B4:1:MET:SD	2.70	0.65
29:BG:72:ARG:HG3	29:BG:72:ARG:HH11	1.59	0.65
30:BH:152:ARG:HE	30:BH:153:LYS:HD3	1.60	0.65
32:BM:71:ILE:H	32:BM:71:ILE:HD12	1.62	0.65
34:BO:80:TYR:CD1	34:BO:111:ARG:HB3	2.31	0.65
35:BP:26:TYR:C	35:BP:28:ALA:H	2.02	0.65
44:BV:39:VAL:HG23	44:BV:40:ASP:N	2.11	0.65
44:BV:165:VAL:HG13	44:BV:166:SER:N	2.12	0.65
49:B4:22:ILE:O	49:B4:23:GLU:HB2	1.96	0.65
1:CA:321:A:N6	1:CA:328:C:O2'	2.30	0.65
1:CA:923:A:OP1	5:CH:21:ALA:HB2	1.97	0.65
2:CE:17:PHE:HD2	2:CE:44:LEU:HD21	1.61	0.65
2:CE:67:THR:HG21	2:CE:155:LEU:CD2	2.27	0.65
2:CE:75:LYS:HA	2:CE:78:GLN:HE21	1.60	0.65
2:CE:87:ARG:O	2:CE:87:ARG:HD2	1.95	0.65
2:CE:87:ARG:HH11	2:CE:223:ILE:CD1	2.09	0.65
24:DA:34:C:H5	24:DA:447:A:H61	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1396:U:H5”	24:DA:1397:U:OP2	1.97	0.65
24:DA:2340:G:O2’	24:DA:2341:G:H5’	1.95	0.65
24:DA:2723:C:H5”	36:D0:1:MET:HG2	1.78	0.65
25:DB:12:C:H4’	25:DB:13:A:H5”	1.79	0.65
27:DE:10:GLY:H	27:DE:25:VAL:HG23	1.59	0.65
27:DE:201:THR:HG22	27:DE:203:LYS:N	2.07	0.65
34:DO:97:PRO:HD3	34:DO:126:VAL:O	1.97	0.65
43:DU:99:CYS:SG	43:DU:100:ALA:N	2.69	0.65
44:DV:113:ALA:O	44:DV:114:GLY:C	2.40	0.65
1:AA:1131:G:O2’	1:AA:1132:C:H5’	1.97	0.65
2:AE:22:LYS:HA	2:AE:40:HIS:HE1	1.62	0.65
4:AG:49:ARG:HA	4:AG:49:ARG:HE	1.60	0.65
6:AI:72:VAL:HG13	6:AI:73:ASN:N	2.10	0.65
8:AK:103:VAL:CG2	8:AK:110:ALA:HB2	2.27	0.65
10:AM:9:ARG:HG2	10:AM:69:ASN:OD1	1.96	0.65
13:AP:56:LEU:HD13	13:AP:56:LEU:O	1.97	0.65
19:AV:45:VAL:O	19:AV:62:ILE:HB	1.96	0.65
20:AW:74:LYS:C	20:AW:76:ALA:N	2.54	0.65
24:BA:17:G:H4’	39:B1:25:TRP:CH2	2.32	0.65
24:BA:2391:G:O2’	24:BA:2392:A:OP2	2.11	0.65
30:BH:86:GLU:O	30:BH:132:ARG:HA	1.96	0.65
32:BM:46:VAL:O	32:BM:47:ALA:HB3	1.97	0.65
44:BV:165:VAL:HG22	44:BV:166:SER:H	1.62	0.65
46:BZ:3:LYS:H	46:BZ:61:ARG:HH22	1.44	0.65
46:BZ:53:VAL:HB	46:BZ:58:ILE:HD12	1.79	0.65
47:BW:33:MET:HG2	47:BW:37:PHE:CE1	2.28	0.65
1:CA:973:G:O4’	10:CM:55:LYS:HG2	1.96	0.65
1:CA:1223:C:P	19:CV:78:ARG:HH12	2.20	0.65
18:CU:73:ALA:HB3	18:CU:79:LEU:HD12	1.78	0.65
20:CW:44:ALA:HB2	20:CW:88:VAL:HG13	1.78	0.65
24:DA:13:A:O2’	24:DA:15:G:N7	2.30	0.65
24:DA:74:A:H5’	24:DA:75:G:O4’	1.96	0.65
24:DA:213:A:H2’	24:DA:214:G:O4’	1.95	0.65
24:DA:270(K):C:O2’	24:DA:270(L):U:H5”	1.97	0.65
24:DA:389:G:H22	34:DO:72:PRO:HG2	1.61	0.65
24:DA:1053:C:H2’	24:DA:1054:A:H5”	1.79	0.65
24:DA:1485:G:H5’	24:DA:1485:G:H8	1.61	0.65
31:DK:67:ARG:HE	31:DK:68:LEU:N	1.93	0.65
38:DR:22:PHE:CD2	38:DR:22:PHE:N	2.63	0.65
53:D8:52:LYS:O	53:D8:52:LYS:HG3	1.97	0.65
1:AA:481:G:H4’	1:AA:482:A:OP1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1250:A:H4'	9:AL:67:GLY:HA2	1.78	0.65
1:AA:1305:G:OP2	21:AX:2:GLY:HA2	1.96	0.65
1:AA:1346:A:C6	7:AJ:10:ARG:NH1	2.64	0.65
2:AE:172:ILE:H	2:AE:172:ILE:HD12	1.62	0.65
4:AG:129:ASN:HD22	4:AG:129:ASN:H	1.45	0.65
23:A1:13:A:H3'	23:A1:13:A:N3	2.11	0.65
24:BA:791:C:H4'	24:BA:792:G:OP1	1.96	0.65
24:BA:1496:A:H8	24:BA:1577:C:O2'	1.68	0.65
24:BA:1496:A:C8	24:BA:1577:C:O2'	2.44	0.65
24:BA:2328:A:H2'	24:BA:2329:G:H8	1.61	0.65
25:BB:12:C:H4'	25:BB:13:A:OP1	1.97	0.65
28:BF:84:VAL:HG12	28:BF:85:GLY:N	2.11	0.65
30:BH:136:ILE:HD12	30:BH:136:ILE:N	2.11	0.65
33:BN:86:ILE:C	33:BN:87:ILE:HD13	2.21	0.65
35:BP:141:GLN:HB2	44:BV:73:GLN:HG2	1.77	0.65
37:BQ:59:LYS:HG2	37:BQ:60:GLY:H	1.59	0.65
37:BQ:99:LYS:O	37:BQ:103:GLU:HG2	1.97	0.65
38:BR:8:LYS:O	38:BR:10:VAL:N	2.30	0.65
47:BW:38:GLN:HB3	47:BW:44:LEU:O	1.96	0.65
1:CA:243:A:O2'	1:CA:244:U:OP2	2.15	0.65
1:CA:1003:G:H21	1:CA:1005:A:P	2.20	0.65
2:CE:164:VAL:HB	2:CE:186:ALA:HB2	1.78	0.65
12:CO:48:PRO:CD	12:CO:49:ASN:H	2.10	0.65
13:CP:51:ALA:O	13:CP:55:ARG:HG3	1.97	0.65
19:CV:3:ARG:CZ	19:CV:8:GLY:HA2	2.26	0.65
22:CD:7:G:H5"	22:CD:8:U:OP2	1.97	0.65
22:CD:67:C:O2'	22:CD:68:C:H5'	1.97	0.65
24:DA:2068:U:N3	24:DA:2430:A:H2	1.85	0.65
24:DA:2126:A:O2'	24:DA:2127:G:H8	1.80	0.65
26:DD:44:ASN:HB3	26:DD:49:ILE:HG22	1.78	0.65
30:DH:128:PRO:CD	30:DH:129:THR:H	2.09	0.65
44:DV:45:ASP:O	44:DV:49:ARG:HG2	1.97	0.65
53:D8:56:GLU:N	53:D8:56:GLU:OE1	2.30	0.65
1:AA:598:U:H2'	1:AA:599:C:H6	1.60	0.65
1:AA:1346:A:N6	7:AJ:10:ARG:HH12	1.95	0.65
10:AM:40:LEU:CG	10:AM:41:PRO:HD2	2.25	0.65
15:AR:17:ARG:NH1	15:AR:77:ARG:NH1	2.45	0.65
18:AU:31:LEU:HD13	18:AU:65:ILE:HD13	1.79	0.65
19:AV:83:HIS:O	19:AV:85:LYS:N	2.29	0.65
24:BA:67:U:C2	24:BA:68:G:C8	2.84	0.65
24:BA:329:G:C5	43:BU:19:LYS:HG2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1151:G:H2'	24:BA:1152:C:C6	2.32	0.65
24:BA:1275:A:H4'	24:BA:1276:A:O5'	1.94	0.65
24:BA:1827:C:O2'	24:BA:1828:G:H5'	1.97	0.65
24:BA:2879:C:H4'	24:BA:2880:C:OP1	1.97	0.65
26:BD:35:LYS:HE3	26:BD:63:ARG:C	2.22	0.65
27:BE:57:LYS:HE2	27:BE:57:LYS:H	1.62	0.65
27:BE:68:ALA:C	27:BE:70:ALA:H	2.04	0.65
27:BE:176:ILE:HB	27:BE:181:LEU:HB2	1.77	0.65
40:B2:29:PRO:C	40:B2:61:VAL:HG11	2.22	0.65
40:B2:59:ALA:HB2	40:B2:96:ILE:HD13	1.78	0.65
1:CA:179:A:O2'	1:CA:180:U:H5'	1.96	0.65
4:CG:13:ARG:HH22	4:CG:36:ARG:NH2	1.94	0.65
5:CH:41:VAL:HG12	5:CH:112:LEU:O	1.97	0.65
6:CI:97:PHE:HD2	6:CI:97:PHE:C	2.05	0.65
6:CI:98:LEU:HB3	18:CU:30:ASP:HA	1.79	0.65
7:CJ:141:VAL:HG12	7:CJ:141:VAL:O	1.95	0.65
12:CO:115:LYS:O	12:CO:117:ARG:HG3	1.96	0.65
13:CP:13:LYS:HA	13:CP:44:ARG:HD2	1.77	0.65
16:CS:6:LEU:HD23	16:CS:17:TYR:CD2	2.32	0.65
16:CS:21:VAL:HG23	16:CS:33:ILE:HB	1.78	0.65
19:CV:21:GLU:O	19:CV:25:LYS:HB3	1.97	0.65
24:DA:775:G:H4'	24:DA:776:G:O5'	1.97	0.65
24:DA:1006:C:H1'	32:DM:106:MET:CE	2.26	0.65
24:DA:2277:G:OP1	35:DP:85:LYS:HB2	1.97	0.65
24:DA:2372:G:H4'	51:D6:46:HIS:NE2	2.12	0.65
26:DD:176:ARG:HH11	26:DD:176:ARG:HG2	1.60	0.65
26:DD:237:GLU:OE1	26:DD:237:GLU:N	2.29	0.65
32:DM:43:THR:HB	32:DM:46:VAL:CG1	2.27	0.65
34:DO:138:LEU:HD11	34:DO:144:GLU:HG3	1.79	0.65
39:D1:74:LEU:HD23	39:D1:114:LYS:HD3	1.78	0.65
1:AA:10:A:H2'	1:AA:11:G:H8	1.61	0.64
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.32	0.64
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.45	0.64
2:AE:17:PHE:CG	2:AE:42:ILE:HG12	2.31	0.64
24:BA:357:A:H2'	24:BA:358:U:C6	2.31	0.64
24:BA:1729:A:N6	24:BA:1731:G:O6	2.31	0.64
25:BB:15:A:H3'	25:BB:16:G:H5'	1.80	0.64
27:BE:4:ILE:HD11	27:BE:96:PHE:HE2	1.61	0.64
34:BO:71:VAL:HG13	34:BO:72:PRO:HD3	1.80	0.64
39:B1:59:ARG:O	39:B1:63:VAL:HG23	1.96	0.64
53:B8:33:ASN:O	53:B8:34:TRP:HB3	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:498:A:O2'	1:CA:500:G:O5'	2.14	0.64
1:CA:1004:A:O5'	1:CA:1025:U:O4	2.16	0.64
1:CA:1200:C:H4'	1:CA:1201:A:H5"	1.79	0.64
1:CA:1348:U:N3	1:CA:1374:A:H2	1.94	0.64
4:CG:122:ARG:O	4:CG:122:ARG:HD3	1.97	0.64
12:CO:126:LYS:C	12:CO:128:ALA:H	2.04	0.64
15:CR:74:ASP:OD1	15:CR:77:ARG:N	2.30	0.64
17:CT:11:VAL:HG23	17:CT:20:THR:HB	1.79	0.64
19:CV:21:GLU:HG3	19:CV:22:LEU:N	2.11	0.64
19:CV:65:ASN:N	19:CV:65:ASN:HD22	1.94	0.64
24:DA:1364:G:N7	46:DZ:2:SER:N	2.45	0.64
24:DA:1879:C:C2'	24:DA:1880:C:H5"	2.27	0.64
24:DA:1913:A:N1	22:CB:38:A:O2'	2.30	0.64
25:DB:45:A:OP1	29:DG:96:ARG:HD2	1.98	0.64
25:DB:55:U:H2'	25:DB:56:G:O4'	1.97	0.64
26:DD:77:ALA:HB2	26:DD:97:TYR:HA	1.77	0.64
35:DP:23:GLY:HA3	35:DP:101:ARG:NH1	2.12	0.64
35:DP:86:GLY:C	35:DP:88:GLY:H	2.03	0.64
36:D0:28:LEU:HD21	36:D0:114:VAL:HG12	1.79	0.64
1:AA:321:A:O2'	1:AA:322:C:H5'	1.98	0.64
1:AA:1129:C:C4	1:AA:1139:G:C2	2.85	0.64
1:AA:1160:G:C6	1:AA:1177:G:N2	2.65	0.64
2:AE:47:THR:O	2:AE:51:LEU:HG	1.97	0.64
4:AG:196:LEU:H	4:AG:196:LEU:CD1	2.09	0.64
11:AN:95:ILE:HG23	11:AN:108:ILE:HD11	1.79	0.64
22:AD:19:G:C6	24:BA:2112:G:H1'	2.32	0.64
24:BA:565:C:H4'	24:BA:1253:A:N6	2.12	0.64
24:BA:863:A:O2'	24:BA:864:G:H5'	1.97	0.64
24:BA:1033:U:O2'	24:BA:1034:G:H5"	1.96	0.64
24:BA:1177:A:H5'	24:BA:1178:C:OP1	1.97	0.64
24:BA:2870:C:H2'	24:BA:2871:C:H5'	1.79	0.64
25:BB:75:G:H1	25:BB:102:G:N2	1.95	0.64
34:BO:65:ARG:HG3	34:BO:65:ARG:NH1	2.11	0.64
40:B2:35:LEU:N	40:B2:35:LEU:HD13	2.12	0.64
47:BW:46:GLN:N	47:BW:49:LYS:HZ1	1.93	0.64
1:CA:335:C:H2'	1:CA:336:C:C6	2.31	0.64
1:CA:451:A:N7	1:CA:481:G:C2	2.65	0.64
1:CA:859:A:H2'	1:CA:860:A:O4'	1.96	0.64
1:CA:1104:G:H4'	2:CE:111:ARG:NH1	2.12	0.64
3:CF:34:LEU:HD21	3:CF:38:ARG:HD2	1.79	0.64
4:CG:61:LYS:HD2	4:CG:206:PHE:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CO:39:VAL:HB	12:CO:57:LYS:HB2	1.79	0.64
14:CQ:7:ILE:HG13	14:CQ:8:GLU:N	2.12	0.64
24:DA:470:A:H8	24:DA:470:A:H5'	1.62	0.64
24:DA:704:G:H1'	24:DA:727:A:N6	2.12	0.64
24:DA:2119:A:N6	24:DA:2170:A:N6	2.45	0.64
24:DA:2336:A:H61	45:D3:43:THR:CG2	2.10	0.64
35:DP:81:VAL:O	35:DP:82:ARG:HG2	1.97	0.64
40:D2:76:LYS:HB2	40:D2:81:TYR:HB3	1.79	0.64
1:AA:67:C:H2'	1:AA:68:G:H8	1.61	0.64
1:AA:797:C:O2'	1:AA:798:G:H5'	1.95	0.64
1:AA:973:G:H1'	10:AM:55:LYS:CD	2.27	0.64
7:AJ:73:MET:HG2	7:AJ:90:GLU:HA	1.79	0.64
10:AM:6:ILE:CG2	10:AM:98:ILE:HG23	2.27	0.64
12:AO:117:ARG:NH2	12:AO:124:LYS:HA	2.12	0.64
13:AP:81:LEU:HD12	13:AP:81:LEU:N	2.09	0.64
17:AT:78:GLU:O	17:AT:78:GLU:HG3	1.95	0.64
24:BA:997:G:OP1	39:B1:93:LYS:HD3	1.97	0.64
24:BA:1116:C:H2'	24:BA:1117:G:C8	2.32	0.64
24:BA:1912:A:N6	24:BA:1918:A:H1'	2.13	0.64
24:BA:1999:C:H4'	24:BA:2723:C:O2	1.98	0.64
25:BB:6:C:O2'	37:BQ:29:PHE:HE1	1.81	0.64
27:BE:78:LEU:N	27:BE:78:LEU:CD2	2.61	0.64
29:BG:112:PRO:C	29:BG:114:ILE:H	2.03	0.64
34:BO:96:THR:O	34:BO:100:LEU:HD23	1.98	0.64
40:B2:78:LYS:O	40:B2:79:VAL:HG13	1.97	0.64
47:BW:42:GLY:O	47:BW:44:LEU:N	2.30	0.64
1:CA:713:G:H21	1:CA:777:A:C1'	2.09	0.64
5:CH:41:VAL:CG1	5:CH:113:ALA:HB2	2.25	0.64
5:CH:50:GLU:HG3	5:CH:52:PRO:HD2	1.79	0.64
12:CO:21:LYS:N	12:CO:21:LYS:HD2	2.11	0.64
14:CQ:26:ARG:NE	14:CQ:47:LEU:HD21	2.13	0.64
15:CR:25:THR:HG21	15:CR:70:LEU:HB2	1.77	0.64
22:CD:28:C:H2'	22:CD:29:G:C8	2.32	0.64
24:DA:74:A:H4'	24:DA:75:G:O5'	1.98	0.64
24:DA:1053:C:C3'	24:DA:1054:A:H5"	2.28	0.64
24:DA:1126:A:H4'	24:DA:1127:A:O5'	1.97	0.64
24:DA:1791:A:N6	24:DA:1828:G:O2'	2.30	0.64
24:DA:1879:C:H2'	24:DA:1880:C:C5'	2.27	0.64
24:DA:2327:A:H2'	24:DA:2328:A:C8	2.32	0.64
24:DA:2517:C:C2	24:DA:2542:A:N6	2.64	0.64
24:DA:2584:U:C6	24:DA:2585:U:N3	2.64	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:81:LYS:O	29:DG:82:LEU:HB2	1.96	0.64
29:DG:114:ILE:CG2	29:DG:117:PHE:HB2	2.27	0.64
30:DH:105:LEU:H	30:DH:105:LEU:CD1	2.09	0.64
31:DK:99:GLU:CD	31:DK:103:ARG:HH21	2.05	0.64
37:DQ:78:LEU:HD11	37:DQ:107:GLU:O	1.98	0.64
41:DS:25:ARG:NH1	41:DS:25:ARG:HB2	2.11	0.64
41:DS:59:VAL:HG12	41:DS:60:ASN:N	2.11	0.64
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.30	0.64
1:AA:1033:G:H2'	1:AA:1034:G:C8	2.32	0.64
1:AA:1294:G:O2'	1:AA:1295:G:H5'	1.98	0.64
1:AA:1320:C:H2'	1:AA:1321:C:H6	1.63	0.64
1:AA:1541:U:C6	1:AA:1541:U:C3'	2.80	0.64
2:AE:33:TYR:HB3	2:AE:41:ILE:O	1.97	0.64
7:AJ:121:ALA:O	7:AJ:125:MET:HG3	1.97	0.64
19:AV:53:ASN:HB2	19:AV:77:THR:HG22	1.79	0.64
19:AV:67:VAL:HG21	49:B4:59:PHE:HB3	1.79	0.64
22:AC:71:C:O2'	22:AC:72:A:H5'	1.97	0.64
22:AD:50:U:H2'	22:AD:51:C:C6	2.33	0.64
24:BA:963:U:O2'	24:BA:964:C:H5'	1.97	0.64
24:BA:1359:A:O2'	24:BA:1360:A:O5'	2.16	0.64
26:BD:117:VAL:HG22	26:BD:118:VAL:N	2.10	0.64
26:BD:146:GLU:HG2	26:BD:152:GLY:O	1.97	0.64
27:BE:108:SER:HB3	27:BE:165:VAL:HG21	1.77	0.64
30:BH:103:LEU:HD22	30:BH:123:PHE:CZ	2.32	0.64
32:BM:13:TRP:O	32:BM:14:VAL:HG23	1.97	0.64
35:BP:43:THR:OG1	35:BP:46:GLN:HG3	1.96	0.64
35:BP:63:LYS:C	35:BP:64:ILE:HD13	2.22	0.64
38:BR:55:ASN:H	38:BR:59:THR:HG22	1.60	0.64
39:B1:25:TRP:O	39:B1:28:ARG:HB2	1.98	0.64
43:BU:63:LYS:HA	43:BU:63:LYS:HZ2	1.61	0.64
48:BX:8:LEU:HD11	48:BX:31:LEU:HD12	1.80	0.64
51:B6:9:LEU:HD13	51:B6:10:LEU:N	2.13	0.64
1:CA:1112:C:H1'	3:CF:179:ARG:HH11	1.62	0.64
1:CA:1403:C:O2	1:CA:1499:A:N6	2.30	0.64
8:CK:20:TYR:CE2	8:CK:75:ARG:HD2	2.32	0.64
8:CK:42:GLU:HG3	8:CK:109:ILE:HD12	1.80	0.64
11:CN:19:ALA:HA	11:CN:32:ILE:HG22	1.80	0.64
13:CP:23:TYR:CB	13:CP:67:GLU:HG2	2.25	0.64
14:CQ:19:ARG:O	14:CQ:20:ALA:C	2.40	0.64
21:CX:25:LYS:HE2	21:CX:26:LYS:O	1.96	0.64
24:DA:649:G:H2'	24:DA:650:C:H6	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1173:G:H1'	24:DA:1175:U:C5	2.33	0.64
24:DA:1826:G:H4'	26:DD:242:ARG:NH2	2.10	0.64
24:DA:2161:C:H2'	24:DA:2162:G:H5'	1.79	0.64
30:DH:117:PRO:HB3	30:DH:123:PHE:CE1	2.33	0.64
31:DK:77:LEU:HD11	31:DK:140:LEU:HD12	1.79	0.64
31:DK:120:ILE:HD11	31:DK:126:TYR:CZ	2.32	0.64
34:DO:98:GLU:O	34:DO:101:VAL:HG12	1.98	0.64
39:D1:102:GLU:HG3	40:D2:2:PHE:HE2	1.62	0.64
49:D4:36:CYS:O	49:D4:37:SER:O	2.14	0.64
1:AA:5:U:O2'	1:AA:6:G:OP2	2.13	0.64
1:AA:482:A:H2'	1:AA:482:A:N3	2.11	0.64
1:AA:843:U:H5'	1:AA:848:C:C6	2.32	0.64
10:AM:6:ILE:HA	10:AM:97:GLU:O	1.97	0.64
12:AO:124:LYS:HB2	12:AO:124:LYS:NZ	2.12	0.64
22:AC:66:C:H2'	22:AC:67:C:C6	2.31	0.64
24:BA:273(F):C:H3'	24:BA:274:G:C5'	2.25	0.64
24:BA:805:G:H4'	24:BA:806:C:OP2	1.96	0.64
24:BA:1885:A:H5"	24:BA:1886:C:C5	2.32	0.64
24:BA:2443:C:H2'	24:BA:2444:G:H8	1.61	0.64
29:BG:55:LYS:O	29:BG:59:GLU:HB2	1.98	0.64
30:BH:7:LEU:HD13	30:BH:52:VAL:HG11	1.79	0.64
40:B2:60:GLU:OE2	40:B2:97:LYS:HD2	1.97	0.64
53:B8:48:PHE:N	53:B8:48:PHE:CD1	2.65	0.64
1:CA:684:A:H2'	1:CA:685:G:C8	2.31	0.64
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.97	0.64
5:CH:83:GLU:HG2	5:CH:88:LYS:HG3	1.78	0.64
24:DA:1784:A:H4'	24:DA:1785:A:C5'	2.26	0.64
24:DA:2158:A:H5"	24:DA:2159:G:OP1	1.97	0.64
24:DA:2347:C:OP1	51:D6:39:TYR:CE2	2.50	0.64
28:DF:175:THR:O	28:DF:176:LEU:HB2	1.95	0.64
29:DG:82:LEU:HA	29:DG:86:MET:SD	2.38	0.64
30:DH:51:ARG:HH11	30:DH:51:ARG:HG3	1.61	0.64
31:DK:116:LEU:O	31:DK:118:LYS:N	2.29	0.64
36:D0:75:LEU:HD13	36:D0:75:LEU:C	2.22	0.64
42:DT:57:LEU:HD12	42:DT:78:LYS:HB2	1.77	0.64
43:DU:56:PRO:HG2	43:DU:57:GLN:OE1	1.98	0.64
50:D5:40:LYS:HD3	50:D5:46:CYS:CB	2.26	0.64
1:AA:57:G:H2'	1:AA:58:C:C6	2.33	0.64
1:AA:737:A:H2'	1:AA:738:C:C6	2.32	0.64
1:AA:1005:A:O2'	1:AA:1037:C:H1'	1.98	0.64
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:24:GLU:H	4:AG:27:TYR:CB	2.11	0.64
4:AG:90:GLY:O	4:AG:93:PHE:HB3	1.97	0.64
9:AL:27:THR:OG1	9:AL:28:VAL:N	2.30	0.64
13:AP:88:ARG:HG3	13:AP:98:VAL:CG1	2.28	0.64
13:AP:102:ARG:NH1	13:AP:105:THR:HG23	2.12	0.64
24:BA:194:G:C2'	24:BA:195:A:H5'	2.28	0.64
24:BA:864:G:H21	24:BA:866:A:H61	1.43	0.64
24:BA:1201:C:O2'	24:BA:1202:C:H5'	1.98	0.64
24:BA:1504:C:H2'	24:BA:1505:C:H5"	1.78	0.64
24:BA:1542:G:H3'	24:BA:1543:A:H5"	1.79	0.64
24:BA:2584:U:C5	24:BA:2585:U:C5	2.86	0.64
25:BB:12:C:H4'	25:BB:13:A:H5"	1.80	0.64
25:BB:55:U:H2'	25:BB:56:G:O4'	1.98	0.64
28:BF:46:ARG:HH11	28:BF:46:ARG:HG2	1.63	0.64
29:BG:67:LYS:HD3	49:B4:5:ILE:CG2	2.27	0.64
31:BK:76:THR:OG1	31:BK:140:LEU:HD13	1.97	0.64
37:BQ:28:VAL:HG11	37:BQ:98:VAL:HG12	1.78	0.64
44:BV:10:ARG:HD3	44:BV:37:VAL:O	1.97	0.64
44:BV:59:LEU:HG	44:BV:60:GLU:H	1.61	0.64
53:B8:23:VAL:CG1	53:B8:47:LYS:HB3	2.28	0.64
1:CA:328:C:H4'	1:CA:329:A:H5'	1.80	0.64
1:CA:715:A:H2'	1:CA:716:A:C8	2.33	0.64
1:CA:940:C:O2'	1:CA:941:G:H5'	1.97	0.64
16:CS:51:VAL:HG21	16:CS:77:ALA:HB2	1.78	0.64
24:DA:871:U:O2	24:DA:871:U:C2'	2.45	0.64
24:DA:1864:U:H2'	24:DA:1869:G:H5"	1.79	0.64
24:DA:1871:A:H2'	24:DA:1872:A:C8	2.32	0.64
24:DA:1965:C:H2'	24:DA:1966:A:H8	1.63	0.64
30:DH:3:ARG:NE	30:DH:3:ARG:HA	2.12	0.64
30:DH:92:ILE:H	30:DH:92:ILE:HD12	1.63	0.64
31:DK:99:GLU:HG2	31:DK:103:ARG:NH2	2.11	0.64
32:DM:1:MET:HE2	40:D2:12:TYR:HA	1.80	0.64
33:DN:12:ASP:OD1	33:DN:14:THR:HG23	1.97	0.64
35:DP:80:GLU:C	35:DP:81:VAL:HG13	2.22	0.64
49:D4:49:PHE:O	49:D4:50:VAL:HG23	1.97	0.64
5:AH:90:VAL:O	5:AH:120:THR:HA	1.98	0.64
13:AP:3:ARG:O	49:B4:34:GLU:HG3	1.97	0.64
13:AP:34:LEU:CD1	13:AP:41:PRO:HB3	2.27	0.64
19:AV:6:LYS:HG2	19:AV:7:LYS:H	1.63	0.64
20:AW:89:ARG:HB2	20:AW:104:LEU:HD21	1.80	0.64
24:BA:301:G:HO2'	24:BA:302:C:H6	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:668:G:H2'	24:BA:670:A:H62	1.61	0.64
24:BA:2759:G:H5'	24:BA:2759:G:C8	2.33	0.64
26:BD:95:LEU:HD12	26:BD:103:ARG:O	1.97	0.64
26:BD:176:ARG:HH11	26:BD:176:ARG:HG2	1.62	0.64
30:BH:59:ARG:HH11	30:BH:59:ARG:HG3	1.62	0.64
30:BH:89:ILE:CD1	30:BH:90:LYS:H	2.10	0.64
40:B2:86:GLY:O	40:B2:87:HIS:O	2.16	0.64
44:BV:94:GLU:HG3	44:BV:129:SER:HB3	1.80	0.64
44:BV:100:VAL:O	44:BV:124:ILE:HG22	1.97	0.64
46:BZ:97:LEU:HD12	46:BZ:98:LEU:H	1.62	0.64
1:CA:99:C:H2'	1:CA:101:A:C8	2.33	0.64
1:CA:1023:G:H2'	1:CA:1024:G:H5"	1.79	0.64
1:CA:1106:G:H5"	3:CF:172:ARG:HG2	1.79	0.64
8:CK:97:VAL:HG13	8:CK:98:LYS:N	2.13	0.64
24:DA:2199:A:H3'	24:DA:2205:C:H6	1.63	0.64
24:DA:2791:C:H5'	24:DA:2792:G:OP1	1.98	0.64
27:DE:69:LYS:O	27:DE:71:GLY:N	2.27	0.64
28:DF:11:VAL:HG12	28:DF:12:LEU:N	2.13	0.64
28:DF:155:LEU:HD13	28:DF:174:VAL:CG1	2.27	0.64
32:DM:15:LEU:HD12	32:DM:136:GLU:HB2	1.79	0.64
33:DN:7:TYR:CE1	33:DN:20:MET:HB2	2.32	0.64
40:D2:43:GLU:HA	40:D2:43:GLU:OE2	1.95	0.64
43:DU:86:ARG:O	43:DU:92:ASN:HB2	1.97	0.64
45:D3:68:GLU:HG2	45:D3:80:HIS:HB2	1.79	0.64
46:DZ:29:GLY:O	46:DZ:30:VAL:HG23	1.97	0.64
1:AA:335:C:H2'	1:AA:336:C:C6	2.32	0.64
3:AF:23:TYR:N	3:AF:23:TYR:CD1	2.65	0.64
4:AG:12:CYS:CA	4:AG:21:LEU:HD22	2.28	0.64
6:AI:35:ALA:HA	6:AI:67:MET:HB3	1.79	0.64
9:AL:9:ARG:O	9:AL:104:ARG:HG3	1.97	0.64
19:AV:11:VAL:HB	19:AV:16:LEU:HD21	1.80	0.64
24:BA:723:G:H2'	24:BA:724:U:C6	2.32	0.64
24:BA:813:U:H2'	24:BA:814:C:H6	1.62	0.64
24:BA:1948:G:H2'	24:BA:1949:G:H5'	1.79	0.64
24:BA:2065:C:H2'	24:BA:2066:C:O4'	1.97	0.64
24:BA:2329:G:H2'	24:BA:2330:G:C8	2.33	0.64
24:BA:2537:U:H2'	24:BA:2538:C:H6	1.60	0.64
24:BA:2867:G:O2'	24:BA:2868:A:H8	1.80	0.64
28:BF:178:PRO:HG2	28:BF:179:GLU:CD	2.23	0.64
31:BK:130:TYR:O	31:BK:136:VAL:HG12	1.98	0.64
39:B1:110:VAL:HG12	39:B1:114:LYS:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BX:9:VAL:HG12	48:BX:32:GLN:OE1	1.97	0.64
51:B6:42:TRP:CG	51:B6:43:CYS:N	2.65	0.64
2:CE:25:ASN:O	2:CE:27:LYS:N	2.28	0.64
2:CE:134:GLU:HA	2:CE:137:ARG:HB3	1.80	0.64
2:CE:187:LEU:HD12	2:CE:205:ASP:HA	1.79	0.64
10:CM:27:ALA:CB	10:CM:34:VAL:HG21	2.26	0.64
16:CS:58:TYR:O	16:CS:62:VAL:HG22	1.96	0.64
18:CU:43:PHE:CE2	18:CU:58:LEU:HD11	2.31	0.64
24:DA:404:C:H4'	24:DA:405:U:O5'	1.98	0.64
24:DA:790:C:O2'	24:DA:791:C:OP1	2.15	0.64
24:DA:889:C:H2'	24:DA:890:A:C4	2.33	0.64
24:DA:2309:A:H2'	24:DA:2310:A:O4'	1.98	0.64
27:DE:104:VAL:HG11	27:DE:188:VAL:CG2	2.27	0.64
28:DF:46:ARG:HG2	28:DF:46:ARG:NH1	2.00	0.64
36:D0:2:ARG:HG2	36:D0:5:LYS:NZ	2.13	0.64
39:D1:92:ARG:O	39:D1:94:ASN:N	2.25	0.64
39:D1:92:ARG:C	39:D1:94:ASN:H	2.06	0.64
49:D4:35:VAL:O	49:D4:37:SER:N	2.26	0.64
1:AA:646:U:H2'	1:AA:647:C:C6	2.32	0.64
7:AJ:76:ARG:NH1	7:AJ:78:ARG:HH12	1.93	0.64
24:BA:68:G:H3'	24:BA:69:C:C6	2.33	0.64
24:BA:372:G:O2'	24:BA:373:U:P	2.56	0.64
24:BA:390:A:H4'	24:BA:391:G:O5'	1.96	0.64
24:BA:1225:C:C3'	40:B2:85:LYS:HB2	2.28	0.64
24:BA:1338:G:N3	24:BA:1393:A:H2	1.96	0.64
24:BA:1528:A:N1	24:BA:1543:A:H2	1.96	0.64
24:BA:1847:A:H5'	24:BA:1848:A:OP2	1.98	0.64
24:BA:2745:C:H4'	30:BH:142:GLY:C	2.23	0.64
26:BD:168:ARG:HA	26:BD:173:VAL:HA	1.80	0.64
27:BE:11:MET:HE3	27:BE:186:GLY:HA2	1.80	0.64
34:BO:47:ASP:OD2	34:BO:49:ARG:N	2.31	0.64
34:BO:135:LEU:HD13	34:BO:135:LEU:O	1.97	0.64
40:B2:82:ARG:HG3	40:B2:82:ARG:HH11	1.61	0.64
44:BV:5:LEU:HD13	44:BV:5:LEU:O	1.97	0.64
44:BV:35:ARG:HH12	44:BV:61:LEU:HD21	1.61	0.64
46:BZ:78:LYS:HD3	46:BZ:78:LYS:C	2.22	0.64
1:CA:164:U:H2'	1:CA:165:C:C5	2.32	0.64
1:CA:579:G:C5'	1:CA:728:A:H1'	2.27	0.64
1:CA:1019:C:H2'	1:CA:1020:U:H5'	1.79	0.64
1:CA:1054:C:N4	22:CB:35:C:H1'	2.13	0.64
1:CA:1116:C:C2'	1:CA:1117:G:H5"	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1305:G:O2'	1:CA:1306:A:C8	2.51	0.64
2:CE:21:ARG:HB2	2:CE:39:ILE:HA	1.80	0.64
2:CE:158:LEU:HD12	2:CE:158:LEU:O	1.97	0.64
3:CF:138:VAL:HG13	3:CF:149:ALA:CB	2.28	0.64
3:CF:181:ASN:ND2	3:CF:204:LEU:HB2	2.13	0.64
12:CO:18:VAL:HG23	12:CO:19:ARG:H	1.63	0.64
14:CQ:18:VAL:HG23	14:CQ:19:ARG:H	1.63	0.64
24:DA:264:C:C2'	24:DA:265:A:H5"	2.28	0.64
24:DA:1173:G:N3	24:DA:1175:U:C5	2.65	0.64
24:DA:2014:A:O2'	50:D5:2:ALA:HB2	1.98	0.64
24:DA:2135:A:O2'	24:DA:2160:G:H4'	1.97	0.64
27:DE:4:ILE:C	27:DE:5:LEU:HD23	2.23	0.64
30:DH:148:ILE:O	30:DH:151:ILE:HG12	1.98	0.64
35:DP:81:VAL:O	35:DP:82:ARG:HD3	1.98	0.64
35:DP:86:GLY:C	35:DP:88:GLY:N	2.52	0.64
35:DP:134:ARG:NE	44:DV:122:ARG:HH22	1.94	0.64
37:DQ:26:LEU:HD22	37:DQ:87:PHE:HD1	1.63	0.64
1:AA:274:A:O2'	1:AA:275:G:O4'	2.16	0.64
1:AA:815:A:N6	1:AA:1509:C:H1'	2.12	0.64
2:AE:119:GLU:OE1	2:AE:122:PHE:HB3	1.96	0.64
4:AG:12:CYS:HB3	4:AG:32:ALA:HB1	1.80	0.64
19:AV:28:LYS:O	19:AV:30:LEU:N	2.31	0.64
19:AV:38:SER:O	19:AV:70:LYS:HB3	1.98	0.64
20:AW:9:ASN:O	20:AW:10:LEU:HB3	1.97	0.64
24:BA:1062:G:H2'	24:BA:1063:G:C8	2.33	0.64
37:BQ:40:ILE:HG22	37:BQ:41:ASP:H	1.61	0.64
53:B8:46:ARG:HB2	53:B8:46:ARG:HH11	1.62	0.64
1:CA:64:G:H4'	1:CA:65:U:C5'	2.28	0.64
1:CA:102:G:H2'	1:CA:103:C:H6	1.62	0.64
1:CA:166:G:O2'	1:CA:167:G:H5'	1.98	0.64
1:CA:339:C:OP2	33:DN:97:ARG:NH1	2.31	0.64
2:CE:8:LYS:H	2:CE:8:LYS:CD	2.09	0.64
3:CF:58:GLU:O	3:CF:64:VAL:HA	1.98	0.64
7:CJ:113:GLU:CG	7:CJ:119:ARG:HG2	2.28	0.64
9:CL:5:TYR:O	9:CL:84:ALA:HA	1.98	0.64
9:CL:28:VAL:HA	9:CL:63:ILE:HB	1.79	0.64
14:CQ:24:CYS:SG	14:CQ:27:CYS:N	2.69	0.64
24:DA:1803:A:O2'	26:DD:259:THR:HG21	1.97	0.64
24:DA:2292:C:O2'	24:DA:2293:C:H5'	1.97	0.64
24:DA:2317:C:H3'	24:DA:2318:G:H21	1.63	0.64
26:DD:12:SER:C	26:DD:14:ARG:H	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:135:PHE:N	26:DD:135:PHE:HD2	1.96	0.64
26:DD:239:ARG:O	26:DD:240:ALA:HB2	1.97	0.64
34:DO:1:MET:CE	34:DO:5:ASP:HB3	2.25	0.64
37:DQ:42:ASP:C	37:DQ:44:LYS:H	2.06	0.64
40:D2:36:PRO:HA	40:D2:56:SER:OG	1.98	0.64
46:DZ:80:LEU:HD12	46:DZ:81:LYS:HE3	1.78	0.64
1:AA:922:G:N3	1:AA:1398:A:H2	1.95	0.63
1:AA:1274:G:H22	1:AA:1275:A:H62	1.43	0.63
12:AO:46:LYS:HG2	12:AO:47:LYS:H	1.62	0.63
13:AP:15:VAL:HA	13:AP:45:VAL:CG2	2.28	0.63
18:AU:62:GLU:O	18:AU:65:ILE:HD12	1.97	0.63
19:AV:36:ARG:HD2	19:AV:72:GLY:CA	2.29	0.63
24:BA:1220:A:H5'	24:BA:1221:C:OP2	1.98	0.63
24:BA:1252:G:C1'	39:B1:33:ARG:HD3	2.28	0.63
24:BA:2579:C:H4'	27:BE:134:ILE:HD12	1.80	0.63
25:BB:15:A:H3'	25:BB:16:G:C5'	2.27	0.63
25:BB:44:G:H1'	25:BB:47:C:H41	1.63	0.63
27:BE:11:MET:SD	27:BE:24:THR:HG22	2.38	0.63
28:BF:110:LEU:HD23	28:BF:110:LEU:O	1.99	0.63
30:BH:152:ARG:O	30:BH:154:PRO:HD3	1.98	0.63
39:B1:98:LEU:C	39:B1:100:VAL:N	2.52	0.63
44:BV:15:PRO:HG2	44:BV:16:SER:H	1.63	0.63
52:B7:47:ARG:HH11	52:B7:47:ARG:N	1.93	0.63
1:CA:748:C:O2'	1:CA:749:C:P	2.55	0.63
1:CA:880:C:OP1	12:CO:8:ASN:ND2	2.30	0.63
1:CA:1319:A:H2'	1:CA:1323:G:N7	2.13	0.63
5:CH:53:LEU:HD12	5:CH:53:LEU:N	2.09	0.63
6:CI:97:PHE:C	6:CI:97:PHE:CD2	2.76	0.63
11:CN:48:ILE:HD11	11:CN:64:ALA:CA	2.28	0.63
15:CR:8:LYS:HB2	15:CR:8:LYS:NZ	2.13	0.63
22:CC:58:A:O2'	22:CC:60:U:C6	2.50	0.63
24:DA:2182:G:O2'	24:DA:2183:C:H5'	1.98	0.63
24:DA:2311:A:O2'	24:DA:2312:U:H5'	1.97	0.63
24:DA:2506:U:O2'	24:DA:2507:C:H5"	1.98	0.63
24:DA:2879:C:H4'	24:DA:2880:C:OP1	1.98	0.63
27:DE:11:MET:HE3	27:DE:186:GLY:HA2	1.79	0.63
28:DF:45:ARG:HH11	28:DF:45:ARG:CG	2.10	0.63
32:DM:41:ASP:O	32:DM:48:MET:HE3	1.98	0.63
33:DN:104:ARG:HG2	33:DN:104:ARG:NH1	2.14	0.63
46:DZ:82:LEU:CD1	46:DZ:83:GLU:CA	2.76	0.63
53:D8:48:PHE:N	53:D8:48:PHE:CD1	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:458:C:H2'	1:AA:464:G:H8	1.63	0.63
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.62	0.63
2:AE:83:MET:HE1	2:AE:233:SER:OG	1.99	0.63
4:AG:18:LYS:CG	4:AG:21:LEU:HD21	2.29	0.63
12:AO:47:LYS:CB	12:AO:48:PRO:CD	2.72	0.63
24:BA:642:G:H21	24:BA:646:A:H2	1.41	0.63
24:BA:1164:G:H2'	24:BA:1165:U:C6	2.33	0.63
24:BA:1416:G:H2'	24:BA:1417:C:C5	2.33	0.63
24:BA:1996:C:H4'	24:BA:1997:G:O5'	1.98	0.63
24:BA:2638:G:O2'	24:BA:2639:A:H8	1.80	0.63
25:BB:103:U:O2'	44:BV:72:ARG:HD3	1.98	0.63
27:BE:38:THR:HG22	27:BE:40:GLU:H	1.62	0.63
29:BG:55:LYS:CE	29:BG:148:MET:HE2	2.26	0.63
29:BG:133:LEU:CD2	29:BG:157:ILE:HB	2.28	0.63
30:BH:45:VAL:HG22	30:BH:46:GLU:N	2.11	0.63
34:BO:50:ARG:HG2	34:BO:50:ARG:NH1	2.11	0.63
35:BP:16:ARG:HH11	35:BP:16:ARG:CB	2.10	0.63
40:B2:37:VAL:HG23	40:B2:38:LEU:N	2.12	0.63
43:BU:87:LYS:HA	43:BU:92:ASN:HA	1.80	0.63
49:B4:61:ARG:O	49:B4:65:ASP:HB2	1.97	0.63
53:B8:32:LEU:HB2	53:B8:36:LYS:HE3	1.80	0.63
1:CA:276:G:OP1	17:CT:15:MET:HE2	1.98	0.63
1:CA:298:A:H2'	1:CA:299:G:C8	2.33	0.63
1:CA:1116:C:H2'	1:CA:1117:G:H5"	1.79	0.63
1:CA:1189:C:OP1	10:CM:51:ARG:NH2	2.30	0.63
1:CA:1320:C:H42	19:CV:36:ARG:HG3	1.62	0.63
6:CI:50:TYR:CE1	18:CU:77:GLY:HA2	2.32	0.63
8:CK:28:ALA:HB3	8:CK:57:PRO:HB2	1.79	0.63
11:CN:12:ARG:HG2	11:CN:13:GLN:H	1.63	0.63
12:CO:62:SER:O	12:CO:64:TYR:HD1	1.82	0.63
15:CR:87:ILE:CG2	15:CR:88:ARG:H	2.00	0.63
23:C1:5:A:H2'	23:C1:6:G:H8	1.63	0.63
24:DA:2126:A:HO2'	24:DA:2127:G:H8	1.43	0.63
24:DA:2797:U:H5"	24:DA:2798:C:OP2	1.97	0.63
32:DM:39:ARG:HB3	32:DM:41:ASP:OD1	1.98	0.63
46:DZ:91:LYS:HG3	46:DZ:92:LYS:H	1.63	0.63
1:AA:4:U:H3	8:AK:105:ARG:CZ	2.10	0.63
1:AA:854:G:H3'	1:AA:871:U:O4	1.99	0.63
1:AA:1007:C:H2'	1:AA:1008:C:C4'	2.27	0.63
1:AA:1318:A:H4'	19:AV:10:PHE:CE2	2.33	0.63
3:AF:120:VAL:C	3:AF:122:GLU:H	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AI:17:SER:O	6:AI:20:ALA:HB3	1.98	0.63
9:AL:34:ASN:O	9:AL:36:TYR:N	2.32	0.63
23:A1:7:G:C2'	23:A1:8:A:O5'	2.46	0.63
24:BA:21:A:O2'	24:BA:22:C:H5'	1.99	0.63
24:BA:329:G:N7	43:BU:19:LYS:HE2	2.13	0.63
24:BA:414:C:O2'	24:BA:415:A:H5'	1.98	0.63
24:BA:981:A:C8	24:BA:982:C:H5	2.16	0.63
24:BA:1209:G:N2	24:BA:1210:A:H62	1.97	0.63
24:BA:2115:G:H1'	24:BA:2171:A:N1	2.12	0.63
24:BA:2183:C:H2'	24:BA:2184:G:C8	2.32	0.63
24:BA:2485:G:C5'	35:BP:46:GLN:HE21	2.11	0.63
25:BB:81:G:C2	25:BB:82:G:C5	2.86	0.63
27:BE:28:ALA:O	27:BE:93:VAL:HG22	1.98	0.63
30:BH:159:GLU:HG3	30:BH:170:ARG:HH12	1.63	0.63
31:BK:1:MET:C	31:BK:20:ASP:HB2	2.24	0.63
35:BP:41:TRP:C	35:BP:42:ILE:HD12	2.24	0.63
35:BP:82:ARG:HB3	35:BP:82:ARG:CZ	2.25	0.63
37:BQ:46:VAL:HG12	37:BQ:47:THR:N	2.13	0.63
46:BZ:7:ILE:HG21	46:BZ:69:LYS:HG2	1.80	0.63
52:B7:8:ASN:HD22	52:B7:9:ARG:N	1.95	0.63
1:CA:566:G:H4'	1:CA:567:G:OP1	1.97	0.63
1:CA:819:A:H4'	1:CA:820:U:OP2	1.97	0.63
4:CG:22:LYS:HG3	4:CG:26:CYS:SG	2.38	0.63
6:CI:12:PRO:HG2	6:CI:13:ASN:H	1.62	0.63
9:CL:97:LYS:HB3	9:CL:98:PRO:HD3	1.79	0.63
12:CO:86:ARG:HB2	12:CO:101:VAL:CG2	2.28	0.63
24:DA:192:C:H2'	24:DA:193:U:H5'	1.80	0.63
24:DA:498:G:N3	43:DU:47:LYS:NZ	2.44	0.63
24:DA:524:U:H2'	24:DA:525:U:C6	2.34	0.63
24:DA:1009:A:OP2	32:DM:37:LYS:NZ	2.32	0.63
24:DA:1177:A:H4'	24:DA:1178:C:H5"	1.80	0.63
24:DA:1331:A:H2'	24:DA:1333:C:H5	1.62	0.63
26:DD:18:VAL:HG12	26:DD:19:ALA:O	1.99	0.63
27:DE:201:THR:HG21	27:DE:203:LYS:HB3	1.80	0.63
31:DK:58:LEU:C	31:DK:60:GLU:H	2.04	0.63
35:DP:104:PHE:O	35:DP:105:GLU:HB3	1.98	0.63
39:D1:96:ALA:C	39:D1:98:LEU:H	2.04	0.63
1:AA:1128:C:C4	1:AA:1139:G:C2	2.86	0.63
1:AA:1285:A:O2'	1:AA:1286:A:H5"	1.98	0.63
1:AA:1397:C:N4	23:A1:22:A:C8	2.67	0.63
2:AE:238:LEU:CD1	2:AE:239:VAL:H	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:28:VAL:CG2	9:AL:29:ASN:H	1.92	0.63
13:AP:31:LYS:HA	13:AP:34:LEU:CD2	2.27	0.63
22:AD:3:C:H2'	22:AD:4:G:H8	1.62	0.63
22:AD:69:C:H2'	22:AD:70:G:O4'	1.99	0.63
24:BA:331:A:O2'	24:BA:332:A:OP1	2.15	0.63
24:BA:458:G:O2'	24:BA:459:U:OP2	2.16	0.63
24:BA:713:G:H2'	24:BA:714:U:H6	1.62	0.63
24:BA:1924:C:H2'	24:BA:1925:C:O4'	1.98	0.63
24:BA:2130:U:O4'	24:BA:2134:A:H5'	1.98	0.63
24:BA:2683:C:H2'	24:BA:2684:U:H6	1.63	0.63
25:BB:16:G:O2'	25:BB:17:C:H5'	1.98	0.63
26:BD:27:THR:O	26:BD:29:PRO:HD2	1.98	0.63
26:BD:43:ARG:HG2	26:BD:54:ARG:O	1.98	0.63
26:BD:101:GLU:OE1	26:BD:103:ARG:HD3	1.98	0.63
34:BO:101:VAL:HG23	34:BO:107:LYS:H	1.64	0.63
38:BR:96:ARG:HG3	38:BR:97:ALA:H	1.63	0.63
46:BZ:80:LEU:HD13	46:BZ:80:LEU:H	1.64	0.63
46:BZ:81:LYS:O	46:BZ:81:LYS:CG	2.46	0.63
1:CA:112:G:H4'	1:CA:389:A:H5"	1.79	0.63
1:CA:468:A:H4'	16:CS:80:PHE:O	1.99	0.63
1:CA:652:U:H1'	1:CA:653:A:H2	1.64	0.63
1:CA:1342:C:H4'	9:CL:125:TYR:HB3	1.80	0.63
4:CG:73:ARG:O	4:CG:77:ASN:ND2	2.32	0.63
20:CW:26:ASN:HB2	20:CW:71:THR:HG23	1.79	0.63
24:DA:1520:U:H2'	24:DA:1521:G:O4'	1.99	0.63
24:DA:2439:A:H8	24:DA:2439:A:C5'	2.12	0.63
24:DA:2747:G:O6	24:DA:2755:C:H5"	1.97	0.63
33:DN:86:ILE:HD12	33:DN:86:ILE:N	2.13	0.63
34:DO:106:LEU:O	34:DO:107:LYS:CB	2.46	0.63
41:DS:110:LYS:HG3	41:DS:111:HIS:ND1	2.13	0.63
44:DV:120:ILE:HD13	44:DV:169:GLU:HG3	1.79	0.63
49:D4:63:TYR:C	49:D4:65:ASP:H	2.05	0.63
1:AA:495:A:H5'	1:AA:496:A:OP1	1.98	0.63
1:AA:687:A:O2'	1:AA:688:G:OP2	2.15	0.63
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.16	0.63
1:AA:1256:A:N6	1:AA:1278:U:OP2	2.28	0.63
1:AA:1375:A:H4'	7:AJ:29:LYS:HZ2	1.61	0.63
5:AH:106:PRO:HA	5:AH:109:ILE:HD12	1.81	0.63
8:AK:86:ILE:HD11	8:AK:136:GLU:HG2	1.80	0.63
9:AL:16:ARG:HB2	9:AL:16:ARG:NH1	1.98	0.63
10:AM:4:ILE:HG12	10:AM:100:THR:CG2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AX:2:GLY:C	21:AX:4:GLY:H	2.07	0.63
24:BA:312:G:H5'	24:BA:331:A:H2'	1.79	0.63
24:BA:562:U:O2'	24:BA:572:A:O4'	2.16	0.63
24:BA:782:A:N7	26:BD:221:VAL:HG21	2.14	0.63
24:BA:954:G:H4'	35:BP:13:GLN:HE21	1.63	0.63
24:BA:1341:U:OP1	24:BA:1602:U:H2'	1.98	0.63
24:BA:1833:U:O2'	24:BA:1969:A:N1	2.31	0.63
24:BA:1964:G:H4'	24:BA:1965:C:OP2	1.98	0.63
26:BD:118:VAL:HG22	26:BD:119:ALA:H	1.63	0.63
33:BN:43:VAL:HG21	33:BN:56:ASP:HB2	1.79	0.63
39:B1:50:ARG:HH11	40:B2:72:VAL:HG11	1.61	0.63
42:BT:50:LYS:HB2	42:BT:84:ALA:HB2	1.79	0.63
43:BU:19:LYS:HE3	43:BU:71:LYS:HZ1	1.63	0.63
53:B8:49:VAL:HG12	53:B8:50:LEU:H	1.62	0.63
1:CA:539:A:H2'	1:CA:540:G:C8	2.33	0.63
1:CA:913:A:O2'	1:CA:914:A:OP2	2.13	0.63
1:CA:953:G:C5'	1:CA:965:A:H61	2.10	0.63
1:CA:1279:A:H5"	1:CA:1280:A:OP1	1.99	0.63
1:CA:1363:A:C4'	1:CA:1364:U:H5"	2.28	0.63
5:CH:91:LEU:HA	5:CH:120:THR:HG22	1.81	0.63
24:DA:648:G:O2'	24:DA:649:G:H5'	1.98	0.63
24:DA:733:G:C8	24:DA:761:A:N6	2.67	0.63
24:DA:1429:G:H2'	24:DA:1430:C:H6	1.62	0.63
24:DA:2287:A:N1	24:DA:2346:A:H2	1.96	0.63
27:DE:14:ILE:CG1	27:DE:15:PHE:H	2.08	0.63
27:DE:50:GLY:HA3	27:DE:74:PRO:HG3	1.80	0.63
31:DK:74:ASN:OD1	31:DK:75:LEU:HD13	1.97	0.63
44:DV:4:ARG:HH11	44:DV:4:ARG:HG2	1.64	0.63
1:AA:410:G:H4'	1:AA:411:A:OP1	1.98	0.63
1:AA:559:A:H4'	1:AA:560:U:C5'	2.27	0.63
3:AF:23:TYR:HD2	10:AM:10:GLY:HA2	1.64	0.63
13:AP:81:LEU:HB3	13:AP:89:GLY:HA3	1.79	0.63
16:AS:40:ASP:HB3	16:AS:48:TRP:HB2	1.79	0.63
24:BA:1265:A:H1'	24:BA:1267:U:C5	2.33	0.63
24:BA:1882:C:H5'	24:BA:1883:G:OP2	1.98	0.63
24:BA:2086:U:H2'	24:BA:2087:G:C8	2.33	0.63
25:BB:111:U:H2'	25:BB:112:G:C8	2.33	0.63
27:BE:24:THR:O	27:BE:25:VAL:HB	1.98	0.63
30:BH:86:GLU:HG3	30:BH:164:TYR:C	2.23	0.63
31:BK:82:ARG:HH11	31:BK:82:ARG:CG	2.11	0.63
34:BO:66:GLY:O	34:BO:67:MET:HB2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:21:THR:HG21	35:BP:101:ARG:N	2.13	0.63
38:BR:90:GLN:HA	38:BR:90:GLN:NE2	2.14	0.63
43:BU:5:MET:HE1	43:BU:32:PRO:HA	1.79	0.63
46:BZ:53:VAL:O	46:BZ:54:ALA:C	2.42	0.63
49:B4:24:THR:HG22	49:B4:25:TYR:H	1.63	0.63
1:CA:523:A:H61	12:CO:92:ASP:CB	2.08	0.63
1:CA:640:A:O2'	8:CK:115:SER:HB3	1.99	0.63
2:CE:155:LEU:HD12	2:CE:157:ARG:O	1.97	0.63
4:CG:165:MET:HE1	4:CG:168:ARG:HD2	1.81	0.63
5:CH:51:VAL:O	5:CH:55:VAL:HG23	1.99	0.63
10:CM:42:THR:HG23	10:CM:68:HIS:HA	1.80	0.63
24:DA:283:A:H5"	24:DA:284:U:OP2	1.98	0.63
24:DA:469:G:O6	52:D7:37:LYS:HE2	1.97	0.63
24:DA:1141:U:OP2	32:DM:63:THR:CG2	2.47	0.63
24:DA:1728:G:N1	24:DA:1730:U:OP2	2.32	0.63
24:DA:2415:G:H2'	24:DA:2416:C:C6	2.33	0.63
25:DB:81:G:O6	25:DB:96:G:C5	2.52	0.63
26:DD:230:ASP:O	26:DD:231:HIS:HB2	1.98	0.63
30:DH:86:GLU:O	30:DH:87:LEU:HB2	1.99	0.63
38:DR:60:THR:HG22	38:DR:77:PRO:HA	1.80	0.63
53:D8:59:LYS:HZ3	53:D8:59:LYS:HB3	1.62	0.63
1:AA:498:A:H4'	1:AA:500:G:OP1	1.99	0.63
3:AF:63:ASN:O	3:AF:64:VAL:HG22	1.99	0.63
4:AG:129:ASN:HD22	4:AG:129:ASN:N	1.94	0.63
6:AI:76:ALA:O	6:AI:80:ARG:HG3	1.98	0.63
7:AJ:148:ASN:C	7:AJ:150:ALA:N	2.49	0.63
9:AL:127:LYS:HG3	9:AL:128:ARG:HH12	1.63	0.63
13:AP:19:LEU:H	13:AP:19:LEU:CD2	2.12	0.63
24:BA:196:A:H2'	24:BA:805:G:O6	1.97	0.63
24:BA:623:G:H2'	24:BA:624:C:H6	1.64	0.63
24:BA:676:A:H8	24:BA:2069:G:H21	1.46	0.63
24:BA:705:A:H62	24:BA:726:G:H1'	1.64	0.63
24:BA:1095:A:H2'	24:BA:1095:A:N3	2.12	0.63
24:BA:2168:G:H2'	24:BA:2168:G:N3	2.13	0.63
24:BA:2267:A:H5"	24:BA:2268:A:C5'	2.28	0.63
26:BD:10:THR:C	26:BD:11:PRO:O	2.39	0.63
29:BG:139:LEU:HD12	29:BG:140:ILE:N	2.14	0.63
31:BK:1:MET:HE3	31:BK:23:PRO:HA	1.80	0.63
35:BP:110:THR:O	35:BP:112:GLU:N	2.31	0.63
48:BX:3:ARG:HB3	48:BX:60:GLU:C	2.24	0.63
1:CA:1226:C:C4'	1:CA:1227:A:OP1	2.40	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.62	0.63
2:CE:236:TYR:CD2	2:CE:239:VAL:HG21	2.34	0.63
3:CF:34:LEU:CD2	3:CF:38:ARG:HD2	2.29	0.63
4:CG:153:ARG:HD3	4:CG:181:MET:SD	2.39	0.63
16:CS:66:PRO:HG2	16:CS:71:ARG:HH12	1.64	0.63
19:CV:15:LEU:O	19:CV:19:VAL:HG23	1.98	0.63
22:CD:21:A:O2'	22:CD:22:G:C8	2.51	0.63
24:DA:836:G:H2'	24:DA:837:C:C6	2.33	0.63
24:DA:1059:G:H3'	24:DA:1060:U:C5'	2.24	0.63
24:DA:1465:G:H5'	24:DA:1528:A:H1'	1.79	0.63
24:DA:2638:G:P	27:DE:82:ARG:HH22	2.21	0.63
26:DD:72:LYS:HG2	26:DD:103:ARG:NH2	2.13	0.63
28:DF:132:VAL:HG23	28:DF:133:ASN:N	2.14	0.63
31:DK:86:THR:HG22	31:DK:86:THR:O	1.99	0.63
32:DM:87:LEU:O	32:DM:87:LEU:HD23	1.99	0.63
34:DO:64:LYS:HB2	53:D8:25:MET:HG3	1.80	0.63
34:DO:83:VAL:HG12	34:DO:112:LEU:HD21	1.81	0.63
34:DO:138:LEU:C	34:DO:140:ALA:N	2.55	0.63
35:DP:90:VAL:C	35:DP:92:GLY:H	2.07	0.63
37:DQ:22:GLY:O	37:DQ:23:ARG:O	2.17	0.63
42:DT:49:VAL:HG13	42:DT:83:VAL:HG13	1.80	0.63
44:DV:5:LEU:O	44:DV:6:LYS:HB2	1.97	0.63
47:DW:46:GLN:OE1	47:DW:46:GLN:HA	1.98	0.63
1:AA:67:C:H2'	1:AA:68:G:C8	2.34	0.63
1:AA:191(F):U:C2'	1:AA:191:G:H5'	2.29	0.63
1:AA:1503:A:H61	23:A1:12:A:H61	1.47	0.63
2:AE:41:ILE:HD12	2:AE:41:ILE:N	2.12	0.63
4:AG:25:ARG:HH11	4:AG:25:ARG:HG2	1.63	0.63
6:AI:61:LEU:O	6:AI:62:TRP:HB2	1.97	0.63
6:AI:69:GLU:CD	6:AI:69:GLU:H	2.07	0.63
7:AJ:155:ARG:O	7:AJ:156:TRP:HB3	1.99	0.63
14:AQ:12:ARG:O	14:AQ:14:PRO:HD3	1.98	0.63
15:AR:62:GLN:HA	15:AR:65:ARG:NH1	2.14	0.63
18:AU:22:VAL:HG12	18:AU:55:ARG:O	1.98	0.63
24:BA:391:G:H2'	24:BA:392:C:H6	1.64	0.63
24:BA:633:A:H2'	24:BA:634:C:H5'	1.81	0.63
24:BA:1716:U:O2'	24:BA:1717:G:H5'	1.99	0.63
24:BA:1729:A:C6	24:BA:1731:G:N7	2.67	0.63
24:BA:2015:A:C1'	50:B5:2:ALA:HA	2.29	0.63
24:BA:2520:C:C6	24:BA:2567:G:H1'	2.34	0.63
28:BF:94:PRO:O	28:BF:95:ARG:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:67:LYS:HD3	49:B4:5:ILE:HG21	1.81	0.63
38:BR:117:ASP:C	38:BR:119:LYS:H	2.06	0.63
52:B7:28:ARG:HH11	52:B7:28:ARG:HG3	1.63	0.63
1:CA:946:A:H2'	1:CA:947:G:C8	2.34	0.63
1:CA:1145:C:H5'	1:CA:1146:A:OP1	1.98	0.63
1:CA:1348:U:H5	1:CA:1373:G:N2	1.96	0.63
2:CE:37:ASN:C	2:CE:39:ILE:H	2.07	0.63
2:CE:60:ASP:HB3	2:CE:64:ARG:NH1	2.13	0.63
2:CE:214:ILE:HD13	2:CE:217:ARG:NH2	2.14	0.63
14:CQ:18:VAL:HG23	14:CQ:19:ARG:N	2.14	0.63
24:DA:482:A:H4'	43:DU:47:LYS:CD	2.27	0.63
24:DA:608:A:N9	24:DA:621:A:N6	2.47	0.63
24:DA:1372:U:C2'	24:DA:1373:A:H5'	2.29	0.63
24:DA:1870:C:H2'	24:DA:1871:A:O4'	1.99	0.63
24:DA:2734:A:N6	24:DA:2770:G:O2'	2.32	0.63
24:DA:2866:U:O2'	24:DA:2867:G:OP2	2.17	0.63
25:DB:45:A:H1'	29:DG:95:ARG:HH12	1.64	0.63
27:DE:35:GLN:CG	27:DE:37:ARG:NE	2.62	0.63
29:DG:68:PRO:HB2	29:DG:90:LEU:HD12	1.80	0.63
32:DM:61:ARG:HE	32:DM:61:ARG:HA	1.63	0.63
34:DO:114:ILE:HD11	34:DO:130:PHE:CD1	2.34	0.63
38:DR:16:ARG:HE	38:DR:19:LEU:HD21	1.62	0.63
41:DS:74:ALA:O	41:DS:75:TYR:HB3	1.98	0.63
46:DZ:18:ILE:HG12	46:DZ:37:ILE:HG12	1.81	0.63
1:AA:328:C:H4'	1:AA:329:A:H5'	1.81	0.63
1:AA:827:U:H3	1:AA:872:A:H62	1.43	0.63
2:AE:145:LEU:HD13	2:AE:149:LEU:HD12	1.79	0.63
13:AP:81:LEU:H	13:AP:81:LEU:CD1	2.09	0.63
18:AU:36:ASN:ND2	18:AU:39:VAL:HG21	2.13	0.63
19:AV:27:GLU:HG2	19:AV:47:HIS:NE2	2.13	0.63
24:BA:17:G:H4'	39:B1:25:TRP:CZ2	2.34	0.63
24:BA:608:A:C5	24:BA:621:A:N6	2.66	0.63
24:BA:669:G:H4'	24:BA:670:A:OP1	1.99	0.63
24:BA:670:A:H4'	24:BA:671:C:OP1	1.98	0.63
24:BA:705:A:N6	24:BA:726:G:H1'	2.14	0.63
24:BA:1673:U:C2'	24:BA:1674:G:H5'	2.29	0.63
27:BE:65:GLY:O	27:BE:66:HIS:C	2.42	0.63
32:BM:16:ILE:CD1	32:BM:137:LYS:HB2	2.29	0.63
43:BU:14:LEU:HG	43:BU:15:VAL:N	2.10	0.63
47:BW:64:LEU:HD21	47:BW:68:ARG:CZ	2.29	0.63
1:CA:1004:A:OP1	1:CA:1025:U:O4	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:20:GLU:HB2	2:CE:190:THR:OG1	1.98	0.63
4:CG:163:GLU:C	4:CG:165:MET:H	2.03	0.63
11:CN:58:PRO:HD3	11:CN:89:ALA:HB1	1.81	0.63
16:CS:8:ARG:HG2	16:CS:8:ARG:HH11	1.64	0.63
24:DA:60:G:N2	24:DA:88:G:N7	2.46	0.63
24:DA:813:U:H2'	24:DA:814:C:C6	2.34	0.63
24:DA:1061:U:H3'	24:DA:1062:G:C5'	2.26	0.63
24:DA:2377:A:H2'	24:DA:2378:A:C8	2.34	0.63
24:DA:2846:G:OP2	38:DR:54:ARG:HB2	1.98	0.63
29:DG:61:ALA:HB2	29:DG:68:PRO:HD2	1.81	0.63
30:DH:153:LYS:HG3	30:DH:161:GLY:HA3	1.80	0.63
32:DM:7:LYS:HD2	32:DM:7:LYS:H	1.64	0.63
34:DO:13:ASN:C	34:DO:15:ARG:N	2.54	0.63
35:DP:10:ARG:O	35:DP:11:LYS:HB2	1.98	0.63
35:DP:20:ALA:HB1	35:DP:99:PRO:CB	2.29	0.63
35:DP:30:GLY:HA3	35:DP:106:VAL:O	1.98	0.63
38:DR:49:VAL:HG13	38:DR:49:VAL:O	1.99	0.63
44:DV:103:ARG:CB	44:DV:138:GLU:HA	2.27	0.63
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.34	0.62
2:AE:80:ILE:HG21	2:AE:208:ILE:HD12	1.81	0.62
3:AF:11:ARG:HH11	3:AF:11:ARG:HG2	1.64	0.62
7:AJ:18:TYR:CD2	7:AJ:59:LEU:HD13	2.34	0.62
7:AJ:65:ALA:HB2	7:AJ:128:ALA:HB2	1.81	0.62
13:AP:34:LEU:HD13	13:AP:41:PRO:HB3	1.81	0.62
20:AW:40:ALA:HB2	20:AW:55:ILE:HG22	1.79	0.62
24:BA:2144:U:H4'	24:BA:2145:C:OP1	1.98	0.62
24:BA:2429:G:O6	34:BO:61:ARG:NH2	2.32	0.62
27:BE:36:ARG:NH2	27:BE:88:GLY:CA	2.60	0.62
28:BF:170:LEU:HD23	28:BF:172:TRP:HE1	1.64	0.62
29:BG:116:ASP:O	29:BG:117:PHE:HB3	1.99	0.62
29:BG:151:ALA:HB3	29:BG:153:ARG:HH11	1.61	0.62
30:BH:102:ALA:HB2	30:BH:116:GLU:HA	1.81	0.62
32:BM:95:PRO:C	32:BM:97:ARG:H	2.07	0.62
35:BP:38:GLU:O	35:BP:127:ILE:HD13	1.99	0.62
43:BU:43:ASN:N	43:BU:43:ASN:HD22	1.96	0.62
44:BV:93:ASP:O	44:BV:94:GLU:C	2.40	0.62
1:CA:453:A:N6	1:CA:479:C:N3	2.46	0.62
1:CA:973:G:H3'	1:CA:974:A:H5"	1.81	0.62
1:CA:983:A:H2	1:CA:984:C:C6	2.17	0.62
1:CA:1348:U:C4	1:CA:1374:A:H2	2.16	0.62
2:CE:66:GLY:O	2:CE:67:THR:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:9:VAL:CG1	7:CJ:94:ARG:HE	2.12	0.62
9:CL:47:LEU:N	9:CL:47:LEU:HD22	2.14	0.62
9:CL:118:LYS:O	9:CL:119:ALA:HB3	1.99	0.62
24:DA:898:C:C3'	24:DA:899:A:H5'	2.29	0.62
24:DA:1281:G:H5'	24:DA:1281:G:C8	2.32	0.62
24:DA:2378:A:H8	24:DA:2378:A:O5'	1.82	0.62
25:DB:40:U:N3	25:DB:43:C:H5"	2.14	0.62
27:DE:4:ILE:CD1	27:DE:28:ALA:HB1	2.29	0.62
27:DE:13:ARG:HH12	27:DE:21:VAL:HG12	1.64	0.62
31:DK:11:ASN:ND2	31:DK:12:LEU:HD13	2.14	0.62
34:DO:105:LEU:O	34:DO:106:LEU:CB	2.42	0.62
36:D0:117:VAL:O	36:D0:118:GLU:HB3	1.99	0.62
43:DU:87:LYS:O	43:DU:88:LYS:NZ	2.32	0.62
45:D3:35:ASN:H	45:D3:35:ASN:ND2	1.96	0.62
1:AA:246:A:O2'	1:AA:247:G:O5'	2.16	0.62
1:AA:913:A:H4'	1:AA:914:A:O5'	1.99	0.62
1:AA:1058:G:H2'	1:AA:1059:C:O4'	1.98	0.62
3:AF:91:LEU:HD12	3:AF:91:LEU:N	2.11	0.62
5:AH:41:VAL:CG2	5:AH:113:ALA:HB2	2.28	0.62
13:AP:39:ILE:CD1	13:AP:56:LEU:HD23	2.29	0.62
24:BA:654(R):C:C2	24:BA:654(R):C:C4'	2.78	0.62
44:BV:107:THR:HB	44:BV:108:PRO:HD3	1.79	0.62
51:B6:14:THR:HG23	51:B6:15:GLU:N	2.14	0.62
1:CA:115:G:O2'	1:CA:116:A:OP2	2.18	0.62
1:CA:384:G:H2'	1:CA:385:C:C6	2.34	0.62
1:CA:1216:G:H5"	14:CQ:5:ALA:CB	2.29	0.62
1:CA:1256:A:H4'	1:CA:1258:G:C4	2.35	0.62
1:CA:1301:U:H2'	1:CA:1301:U:O2	1.98	0.62
1:CA:1443:G:N2	24:DA:2864:G:OP1	2.29	0.62
9:CL:17:VAL:HG21	9:CL:81:ILE:N	2.14	0.62
11:CN:57:THR:HG22	11:CN:59:TYR:H	1.64	0.62
24:DA:458:G:O2'	24:DA:459:U:OP2	2.17	0.62
24:DA:594:U:H5'	53:D8:61:LEU:HD21	1.81	0.62
24:DA:1331:A:H2'	24:DA:1333:C:C5	2.33	0.62
24:DA:1796:U:H2'	24:DA:1797:C:C6	2.34	0.62
24:DA:2893:G:H5"	24:DA:2894:G:C5'	2.21	0.62
37:DQ:88:ASP:CG	37:DQ:90:GLY:H	2.06	0.62
38:DR:96:ARG:NH1	38:DR:96:ARG:HB2	2.14	0.62
39:D1:34:LYS:HA	39:D1:34:LYS:CE	2.29	0.62
42:DT:63:LYS:O	42:DT:64:LYS:HD2	1.98	0.62
44:DV:9:TYR:CE2	44:DV:61:LEU:HD13	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:132:ASN:O	44:DV:134:PRO:HD3	1.99	0.62
51:D6:13:CYS:HB2	51:D6:22:ALA:HB3	1.81	0.62
1:AA:3:G:H4'	1:AA:4:U:C5'	2.29	0.62
1:AA:328:C:O2'	1:AA:329:A:P	2.56	0.62
1:AA:1320:C:H2'	1:AA:1321:C:C6	2.34	0.62
2:AE:17:PHE:CB	2:AE:42:ILE:HG23	2.28	0.62
4:AG:112:VAL:HG12	4:AG:116:GLN:CD	2.24	0.62
4:AG:129:ASN:ND2	4:AG:145:GLU:N	2.38	0.62
5:AH:101:ILE:H	5:AH:101:ILE:CD1	2.08	0.62
6:AI:16:GLN:HE21	4:CG:20:TYR:HE1	1.47	0.62
7:AJ:155:ARG:CZ	7:AJ:155:ARG:HB2	2.28	0.62
8:AK:6:ILE:CG2	8:AK:85:ARG:HH12	2.13	0.62
13:AP:27:LYS:O	13:AP:30:ALA:HB3	1.99	0.62
16:AS:20:VAL:HG21	16:AS:32:TYR:HB3	1.81	0.62
24:BA:88:G:H5'	24:BA:90:U:C5	2.34	0.62
24:BA:1309:G:H3'	52:B7:9:ARG:HH11	1.60	0.62
24:BA:1728:G:N1	24:BA:1730:U:OP2	2.32	0.62
24:BA:1902:C:H2'	24:BA:1903:G:O5'	1.99	0.62
24:BA:1950:G:O6	24:BA:1954:G:H2'	1.98	0.62
24:BA:2037:G:H2'	24:BA:2038:G:C8	2.33	0.62
24:BA:2526:G:H2'	24:BA:2527:C:O4'	1.99	0.62
24:BA:2656:U:C6	24:BA:2656:U:H3'	2.33	0.62
24:BA:2687:U:C4	24:BA:2688:U:C5	2.87	0.62
24:BA:2748:A:C2	24:BA:2749:A:N7	2.66	0.62
25:BB:15:A:C3'	25:BB:16:G:H5'	2.29	0.62
25:BB:74:U:H2'	25:BB:75:G:H5"	1.81	0.62
26:BD:12:SER:HB2	26:BD:208:LYS:HB3	1.81	0.62
27:BE:200:GLU:HG2	27:BE:201:THR:H	1.64	0.62
28:BF:52:LYS:O	28:BF:88:VAL:HG12	1.99	0.62
29:BG:15:VAL:HG13	29:BG:175:LEU:HD12	1.81	0.62
32:BM:34:LEU:O	32:BM:49:GLY:HA3	1.98	0.62
32:BM:128:HIS:HB2	32:BM:129:PRO:CD	2.29	0.62
34:BO:60:MET:O	34:BO:61:ARG:HG2	1.99	0.62
35:BP:77:LYS:HD3	35:BP:81:VAL:O	1.99	0.62
35:BP:82:ARG:NH1	35:BP:82:ARG:N	2.47	0.62
38:BR:89:VAL:CG2	38:BR:90:GLN:N	2.62	0.62
39:B1:92:ARG:HH12	40:B2:11:GLN:H	1.46	0.62
40:B2:41:GLY:H	40:B2:46:VAL:CG1	2.12	0.62
1:CA:253:U:H2'	1:CA:254:G:H8	1.64	0.62
1:CA:430:A:O2'	1:CA:431:A:H5'	2.00	0.62
1:CA:971:G:C5	1:CA:1365:G:H5'	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1164:G:O2'	1:CA:1165:C:H5'	1.99	0.62
1:CA:1502:A:H5"	1:CA:1503:A:OP2	1.99	0.62
11:CN:99:GLN:HG2	11:CN:105:VAL:CG2	2.28	0.62
24:DA:917:A:H2'	24:DA:918:A:H5'	1.80	0.62
24:DA:2498:C:O2'	24:DA:2499:C:H5'	1.99	0.62
24:DA:2882:A:OP1	36:D0:96:ARG:NH1	2.31	0.62
28:DF:28:ILE:HD13	28:DF:30:PRO:HD3	1.80	0.62
28:DF:129:PHE:O	28:DF:130:ALA:HB3	1.99	0.62
31:DK:65:ALA:HA	31:DK:67:ARG:HH21	1.62	0.62
36:D0:63:ARG:NH1	36:D0:80:PHE:CD1	2.67	0.62
38:DR:22:PHE:N	38:DR:22:PHE:HD2	1.97	0.62
47:DW:41:ILE:HG12	47:DW:44:LEU:HD12	1.81	0.62
1:AA:1365:G:O2'	1:AA:1366:C:H5'	1.99	0.62
2:AE:21:ARG:CZ	2:AE:38:GLY:HA3	2.29	0.62
2:AE:135:GLN:HG3	2:AE:136:VAL:N	2.14	0.62
7:AJ:111:ARG:HD2	7:AJ:123:GLU:OE1	2.00	0.62
8:AK:20:TYR:CE2	8:AK:75:ARG:HB3	2.34	0.62
13:AP:53:VAL:HG12	13:AP:57:ARG:HD3	1.79	0.62
19:AV:11:VAL:HG13	19:AV:39:THR:H	1.64	0.62
22:AD:37:A:O2'	22:AD:38:A:H5'	1.99	0.62
24:BA:1819:A:O2'	24:BA:1820:U:OP2	2.18	0.62
24:BA:2113:U:H5"	24:BA:2114:A:O4'	1.99	0.62
24:BA:2413:G:H21	34:BO:70:GLN:HE22	1.45	0.62
24:BA:2584:U:C5	24:BA:2585:U:H5	2.17	0.62
29:BG:3:LEU:HD12	29:BG:97:ASP:OD2	1.98	0.62
29:BG:88:ILE:O	29:BG:88:ILE:HG23	1.99	0.62
31:BK:120:ILE:HG22	31:BK:121:LYS:N	2.15	0.62
32:BM:120:LEU:CD2	32:BM:122:VAL:HG23	2.30	0.62
35:BP:40:ALA:HB3	35:BP:127:ILE:HD11	1.81	0.62
35:BP:141:GLN:NE2	44:BV:75:ASN:H	1.97	0.62
42:BT:65:ARG:CB	42:BT:70:LEU:HA	2.27	0.62
43:BU:40:GLU:N	43:BU:40:GLU:CD	2.57	0.62
53:B8:29:LYS:O	53:B8:31:HIS:N	2.32	0.62
1:CA:1260:C:OP1	1:CA:1284:C:H4'	1.98	0.62
1:CA:1287:A:H2	1:CA:1353:G:N3	1.97	0.62
7:CJ:140:ASP:HA	7:CJ:143:ARG:NH1	2.14	0.62
9:CL:62:TYR:O	9:CL:63:ILE:HD12	1.99	0.62
11:CN:12:ARG:HG2	11:CN:13:GLN:N	2.14	0.62
22:CD:16:C:H4'	22:CD:60:U:H4'	1.80	0.62
24:DA:897:C:H5'	22:CB:56:U:O2'	2.00	0.62
24:DA:1929:G:C8	24:DA:1929:G:C3'	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:67:GLN:O	28:DF:67:GLN:CG	2.32	0.62
29:DG:94:LEU:HD23	29:DG:94:LEU:H	1.64	0.62
30:DH:136:ILE:H	30:DH:136:ILE:HD12	1.64	0.62
32:DM:26:LEU:O	32:DM:30:ILE:HG13	1.99	0.62
41:DS:1:MET:HB3	41:DS:64:MET:HE3	1.81	0.62
44:DV:94:GLU:HB2	44:DV:95:PRO:HA	1.80	0.62
1:AA:89:U:H2'	1:AA:90:C:C6	2.35	0.62
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.15	0.62
2:AE:36:ARG:HH11	2:AE:36:ARG:HG3	1.64	0.62
2:AE:121:LEU:O	2:AE:127:ILE:HG13	1.99	0.62
6:AI:6:VAL:HG13	6:AI:90:VAL:HG22	1.80	0.62
7:AJ:10:ARG:HG2	7:AJ:10:ARG:NH1	2.14	0.62
7:AJ:65:ALA:HA	7:AJ:128:ALA:HA	1.80	0.62
10:AM:86:MET:HG2	10:AM:87:THR:HG23	1.80	0.62
24:BA:412:A:N7	24:BA:2411:A:H2	1.98	0.62
24:BA:829:A:H5'	24:BA:831:G:N7	2.15	0.62
24:BA:2250:G:H2'	24:BA:2496:C:OP1	1.99	0.62
25:BB:74:U:H2'	25:BB:75:G:H5'	1.80	0.62
30:BH:103:LEU:HD23	30:BH:115:VAL:HB	1.81	0.62
34:BO:31:ALA:O	34:BO:32:THR:CG2	2.45	0.62
34:BO:59:LEU:O	34:BO:61:ARG:HG3	1.98	0.62
37:BQ:100:ALA:CA	37:BQ:103:GLU:HG2	2.29	0.62
44:BV:137:ILE:HD13	44:BV:157:LEU:HD21	1.80	0.62
1:CA:272:C:H2'	1:CA:273:A:H8	1.63	0.62
1:CA:746:A:O2'	1:CA:747:C:H5'	1.99	0.62
2:CE:115:LEU:CD2	2:CE:153:ARG:HD3	2.30	0.62
4:CG:96:LEU:H	4:CG:96:LEU:CD2	2.11	0.62
10:CM:29:ARG:HG2	10:CM:29:ARG:O	2.00	0.62
14:CQ:44:LEU:C	14:CQ:44:LEU:HD12	2.24	0.62
18:CU:82:THR:HG22	18:CU:83:GLU:N	2.15	0.62
22:CD:34:C:H41	23:C1:14:A:H61	1.47	0.62
24:DA:468:G:N7	52:D7:39:ARG:NH2	2.46	0.62
24:DA:527:C:N3	24:DA:2779:U:H5'	2.13	0.62
24:DA:1111:A:O2'	24:DA:1112:G:C4'	2.48	0.62
24:DA:1459:G:H2'	24:DA:1460:A:H5"	1.81	0.62
24:DA:1799:G:O2'	24:DA:1800:C:OP2	2.17	0.62
29:DG:41:GLN:NE2	29:DG:60:LEU:HD12	2.14	0.62
29:DG:94:LEU:HD23	29:DG:94:LEU:N	2.14	0.62
38:DR:108:ARG:O	38:DR:111:ARG:HG3	2.00	0.62
40:D2:52:VAL:CG2	40:D2:55:ALA:HB3	2.28	0.62
41:DS:86:LEU:HD12	41:DS:87:PRO:CD	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:97:GLU:HB3	44:DV:125:LEU:HD11	1.81	0.62
46:DZ:91:LYS:HA	46:DZ:91:LYS:HE3	1.81	0.62
1:AA:250:A:O2'	1:AA:251:G:OP2	2.15	0.62
1:AA:287:U:O2'	1:AA:288:A:H5'	2.00	0.62
1:AA:508:C:H5"	1:AA:509:A:OP1	2.00	0.62
1:AA:719:C:O2'	18:AU:49:LYS:HB3	1.99	0.62
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.34	0.62
2:AE:83:MET:HE1	2:AE:234:PRO:HD2	1.81	0.62
2:AE:91:PRO:HB3	2:AE:154:LEU:HD21	1.81	0.62
5:AH:78:HIS:HA	8:AK:105:ARG:HG3	1.80	0.62
7:AJ:25:ALA:HA	7:AJ:28:ASN:HD22	1.64	0.62
8:AK:26:VAL:HG13	8:AK:59:LEU:HB2	1.81	0.62
9:AL:105:ASP:OD2	9:AL:107:ARG:HD3	2.00	0.62
12:AO:32:PHE:HE1	12:AO:86:ARG:HG3	1.64	0.62
16:AS:58:TYR:C	16:AS:60:LEU:H	2.07	0.62
18:AU:19:LYS:H	18:AU:19:LYS:CD	2.13	0.62
19:AV:11:VAL:CG1	19:AV:39:THR:H	2.11	0.62
24:BA:85:G:P	43:BU:30:VAL:HG21	2.39	0.62
24:BA:242:G:O2'	24:BA:243:U:P	2.57	0.62
24:BA:607:U:OP1	28:BF:102:PRO:HA	2.00	0.62
24:BA:627:A:O2'	24:BA:628:G:C8	2.52	0.62
24:BA:654(R):C:O2'	24:BA:654(S):G:OP1	2.06	0.62
24:BA:884:C:OP1	24:BA:884:C:O4'	2.18	0.62
24:BA:1212:G:H1'	24:BA:1237:A:H61	1.62	0.62
24:BA:2851:A:H8	24:BA:2851:A:O5'	1.81	0.62
27:BE:9:VAL:HG21	27:BE:25:VAL:HG12	1.80	0.62
27:BE:197:ILE:C	27:BE:197:ILE:HD12	2.25	0.62
29:BG:16:ARG:HH21	29:BG:31:VAL:HG11	1.63	0.62
31:BK:8:PRO:HA	31:BK:14:ASP:HA	1.81	0.62
1:CA:668:G:O2'	15:CR:46:HIS:HB3	2.00	0.62
4:CG:170:VAL:HG22	4:CG:171:GLY:N	2.12	0.62
8:CK:58:TYR:O	8:CK:59:LEU:HD23	2.00	0.62
14:CQ:23:ARG:NH1	14:CQ:30:ALA:HB2	2.14	0.62
20:CW:14:LYS:HA	20:CW:17:ARG:NH1	2.14	0.62
24:DA:55:G:N3	24:DA:127:A:H2	1.96	0.62
24:DA:282:A:N3	24:DA:282:A:H2'	2.14	0.62
24:DA:557:U:H2'	24:DA:558:G:H8	1.65	0.62
24:DA:1173:G:H4'	24:DA:1174:A:N7	2.15	0.62
24:DA:1926:U:C4	24:DA:1929:G:O6	2.53	0.62
29:DG:112:PRO:HB3	49:D4:37:SER:CB	2.25	0.62
33:DN:104:ARG:CZ	38:DR:34:VAL:HG11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DO:65:ARG:HE	53:D8:15:LYS:HB2	1.65	0.62
37:DQ:100:ALA:HA	37:DQ:103:GLU:CG	2.30	0.62
43:DU:48:ALA:HB2	43:DU:61:ILE:HD13	1.82	0.62
46:DZ:76:ARG:H	46:DZ:76:ARG:HD2	1.64	0.62
1:AA:1091:U:H2'	1:AA:1093:A:OP2	1.99	0.62
1:AA:1123:A:H4'	10:AM:36:GLY:HA3	1.81	0.62
2:AE:91:PRO:HG3	2:AE:154:LEU:CD2	2.25	0.62
4:AG:96:LEU:HD12	4:AG:139:ARG:CZ	2.29	0.62
6:AI:47:ARG:HB3	6:AI:47:ARG:NH1	2.13	0.62
20:AW:51:GLU:HA	20:AW:54:LYS:HE3	1.81	0.62
22:AD:42:G:H2'	22:AD:43:A:H8	1.65	0.62
24:BA:372:G:C2'	24:BA:373:U:OP2	2.48	0.62
24:BA:637:A:H4'	24:BA:638:G:O5'	1.99	0.62
24:BA:2165:G:H2'	24:BA:2166:G:N2	2.13	0.62
24:BA:2277:G:OP1	35:BP:85:LYS:HB3	1.99	0.62
24:BA:2449:U:O2'	24:BA:2450:A:H8	1.82	0.62
25:BB:39:A:N1	49:B4:1:MET:HB2	2.14	0.62
25:BB:109:G:H2'	25:BB:110:G:C8	2.34	0.62
26:BD:175:LEU:HD12	26:BD:185:VAL:HG21	1.82	0.62
30:BH:11:VAL:HG23	30:BH:13:LYS:CG	2.25	0.62
34:BO:59:LEU:CD2	34:BO:60:MET:N	2.60	0.62
37:BQ:106:ARG:HA	37:BQ:110:LEU:CG	2.29	0.62
44:BV:35:ARG:HH12	44:BV:61:LEU:CD2	2.12	0.62
44:BV:153:SER:C	44:BV:155:LEU:H	2.07	0.62
1:CA:450:G:N7	1:CA:481:G:C6	2.68	0.62
6:CI:62:TRP:C	6:CI:63:TYR:HD2	2.06	0.62
8:CK:112:LEU:O	8:CK:112:LEU:HD12	1.98	0.62
9:CL:116:LYS:O	9:CL:118:LYS:N	2.33	0.62
13:CP:69:GLU:O	13:CP:72:ALA:N	2.32	0.62
24:DA:163:U:H4'	24:DA:164:U:C5	2.34	0.62
24:DA:969:U:H2'	24:DA:970:C:C6	2.34	0.62
24:DA:1026:U:O2'	24:DA:1027:A:O5'	2.17	0.62
24:DA:1406:U:H2'	24:DA:1407:C:C6	2.35	0.62
24:DA:2092:U:H4'	24:DA:2093:G:O5'	1.98	0.62
26:DD:35:LYS:HA	26:DD:64:ILE:HG22	1.81	0.62
29:DG:170:ARG:O	29:DG:174:GLU:HB2	1.99	0.62
33:DN:1:MET:HE3	33:DN:67:LYS:HE2	1.82	0.62
34:DO:50:ARG:CB	34:DO:50:ARG:NH2	2.57	0.62
1:AA:619:U:N3	4:AG:135:LEU:HD11	2.14	0.62
1:AA:1282:C:H2'	1:AA:1283:G:O4'	2.00	0.62
2:AE:135:GLN:HG3	2:AE:136:VAL:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:180:LEU:O	2:AE:181:PHE:HB2	2.00	0.62
12:AO:23:LYS:HD3	12:AO:23:LYS:N	2.15	0.62
19:AV:40:ILE:O	19:AV:41:VAL:CG2	2.42	0.62
19:AV:62:ILE:HG23	19:AV:66:MET:CE	2.29	0.62
25:BB:44:G:H5"	25:BB:45:A:OP1	1.99	0.62
26:BD:142:VAL:HG23	26:BD:192:THR:C	2.25	0.62
27:BE:80:GLU:O	27:BE:81:ILE:HB	2.00	0.62
32:BM:137:LYS:HZ3	32:BM:137:LYS:HA	1.65	0.62
35:BP:89:ASN:C	35:BP:91:GLU:H	2.07	0.62
43:BU:98:VAL:O	43:BU:99:CYS:HB3	2.00	0.62
49:B4:13:ARG:H	49:B4:24:THR:CB	2.12	0.62
53:B8:32:LEU:HG	53:B8:36:LYS:HG3	1.82	0.62
1:CA:9:G:H2'	1:CA:10:A:H8	1.65	0.62
1:CA:1318:A:C4'	19:CV:11:VAL:HG11	2.30	0.62
5:CH:111:GLU:C	5:CH:113:ALA:H	2.07	0.62
9:CL:23:ASN:ND2	9:CL:23:ASN:H	1.98	0.62
19:CV:5:LEU:HD11	49:D4:66:SER:CB	2.30	0.62
19:CV:12:ASP:OD1	19:CV:37:ARG:HD2	2.00	0.62
19:CV:39:THR:HG22	19:CV:40:ILE:N	2.14	0.62
24:DA:654(A):A:N1	24:DA:654(T):A:N1	2.48	0.62
24:DA:882:G:H2'	24:DA:883:G:C8	2.35	0.62
24:DA:1535:U:H2'	24:DA:1536:A:H8	1.65	0.62
24:DA:2199:A:H3'	24:DA:2205:C:C6	2.35	0.62
26:DD:133:LEU:HD21	26:DD:191:ALA:CB	2.29	0.62
26:DD:134:ARG:HD3	26:DD:135:PHE:CE2	2.35	0.62
36:D0:79:LEU:HD23	36:D0:79:LEU:C	2.23	0.62
37:DQ:48:LEU:HD12	37:DQ:48:LEU:N	2.14	0.62
44:DV:94:GLU:HB2	44:DV:130:PRO:CD	2.30	0.62
47:DW:69:ARG:HB2	47:DW:69:ARG:CZ	2.30	0.62
47:DW:70:GLN:O	47:DW:71:ASN:HB2	2.00	0.62
2:AE:97:TRP:HH2	2:AE:176:GLU:HG3	1.64	0.62
7:AJ:148:ASN:O	7:AJ:150:ALA:N	2.32	0.62
8:AK:40:ALA:CB	8:AK:45:ILE:HG13	2.30	0.62
9:AL:48:GLU:N	9:AL:49:PRO:HD2	2.15	0.62
10:AM:78:ASN:HD22	10:AM:81:THR:HG23	1.65	0.62
13:AP:99:ARG:O	13:AP:100:GLY:C	2.43	0.62
24:BA:90:U:O2'	24:BA:91:A:C8	2.53	0.62
24:BA:270(R):G:H2'	24:BA:270(S):G:H8	1.63	0.62
24:BA:621:A:H2'	24:BA:622:G:C5'	2.29	0.62
24:BA:648:G:H1'	24:BA:2351:G:OP1	1.99	0.62
24:BA:830:G:H4'	24:BA:831:G:OP2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1312:U:H3'	42:BT:63:LYS:NZ	2.15	0.62
24:BA:1348:G:H2'	24:BA:1349:A:H5"	1.80	0.62
24:BA:1930:G:C2'	24:BA:1931:U:OP2	2.48	0.62
24:BA:2030:A:H4'	24:BA:2031:A:C8	2.31	0.62
24:BA:2171:A:H2'	24:BA:2172:U:H6	1.63	0.62
26:BD:70:TRP:C	26:BD:70:TRP:CD1	2.78	0.62
27:BE:197:ILE:HD11	27:BE:199:ARG:NH2	2.14	0.62
28:BF:89:VAL:CG1	28:BF:90:PHE:H	2.03	0.62
28:BF:170:LEU:HD23	28:BF:172:TRP:NE1	2.15	0.62
29:BG:98:ARG:O	29:BG:101:ILE:HG13	2.00	0.62
30:BH:3:ARG:HD3	30:BH:6:ARG:HE	1.64	0.62
36:B0:28:LEU:HD13	36:B0:28:LEU:O	2.00	0.62
40:B2:35:LEU:O	40:B2:37:VAL:N	2.33	0.62
40:B2:46:VAL:HG22	40:B2:46:VAL:O	1.99	0.62
42:BT:18:TYR:HA	42:BT:21:PHE:CE2	2.35	0.62
43:BU:54:LYS:HB3	43:BU:55:TYR:CE2	2.35	0.62
43:BU:89:PHE:CD1	43:BU:90:LEU:HD23	2.22	0.62
47:BW:17:SER:CB	47:BW:18:PRO:CA	2.77	0.62
1:CA:1028:C:H3'	1:CA:1028(A):C:H5"	1.81	0.62
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.00	0.62
2:CE:23:ARG:HD3	2:CE:23:ARG:H	1.64	0.62
5:CH:51:VAL:HB	5:CH:52:PRO:CD	2.30	0.62
8:CK:16:ALA:HB2	8:CK:24:THR:HG21	1.82	0.62
11:CN:17:GLY:HA3	11:CN:77:MET:CE	2.21	0.62
14:CQ:53:LEU:HB3	14:CQ:56:VAL:HG21	1.80	0.62
16:CS:4:ILE:HG13	16:CS:21:VAL:CG1	2.29	0.62
24:DA:242:G:H5"	53:D8:62:LEU:CD2	2.30	0.62
24:DA:275:G:O2'	24:DA:276:A:O5'	2.14	0.62
24:DA:839:U:H1'	24:DA:1191:G:H1'	1.81	0.62
28:DF:28:ILE:HG22	28:DF:112:MET:HB3	1.80	0.62
29:DG:53:LEU:HD23	29:DG:53:LEU:C	2.25	0.62
29:DG:142:PRO:HB2	49:D4:31:ILE:CD1	2.30	0.62
33:DN:7:TYR:HE1	33:DN:20:MET:HE3	1.65	0.62
34:DO:108:LYS:H	34:DO:108:LYS:HD2	1.64	0.62
49:D4:61:ARG:O	49:D4:63:TYR:N	2.33	0.62
1:AA:544:G:H2'	1:AA:545:C:C6	2.35	0.62
1:AA:748:C:H1'	1:AA:749:C:H5	1.63	0.62
3:AF:123:GLN:O	3:AF:128:PHE:HB2	2.00	0.62
4:AG:21:LEU:HD12	4:AG:22:LYS:N	2.14	0.62
8:AK:20:TYR:HE2	8:AK:75:ARG:HD2	1.65	0.62
9:AL:22:GLY:O	9:AL:24:GLY:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:28:VAL:HB	9:AL:62:TYR:HA	1.82	0.62
9:AL:29:ASN:ND2	9:AL:30:GLY:H	1.97	0.62
9:AL:32:ASP:C	9:AL:34:ASN:N	2.53	0.62
12:AO:6:THR:HG23	12:AO:9:GLN:HE21	1.65	0.62
24:BA:274:G:OP1	24:BA:274:G:O4'	2.17	0.62
24:BA:943:U:OP2	34:BO:36:LYS:HE3	2.00	0.62
24:BA:1918:A:O2'	24:BA:1919:A:C8	2.53	0.62
24:BA:2199:A:N7	24:BA:2224:G:N2	2.42	0.62
28:BF:179:GLU:CD	28:BF:179:GLU:H	2.07	0.62
32:BM:126:PRO:O	32:BM:127:ASP:HB2	1.99	0.62
32:BM:133:GLN:CG	32:BM:135:PRO:HD3	2.29	0.62
33:BN:63:VAL:HG23	33:BN:64:ARG:HG3	1.82	0.62
34:BO:101:VAL:HG13	34:BO:102:ARG:N	2.14	0.62
38:BR:62:THR:CG2	38:BR:75:ILE:HG12	2.30	0.62
38:BR:88:ILE:C	38:BR:88:ILE:HD12	2.25	0.62
38:BR:122:ASP:O	38:BR:126:ALA:HB2	1.99	0.62
42:BT:26:TYR:OH	42:BT:88:LYS:HB2	1.99	0.62
1:CA:537:G:H5"	12:CO:113:ARG:HH12	1.64	0.62
1:CA:963:G:N3	10:CM:55:LYS:NZ	2.42	0.62
1:CA:1363:A:H2'	1:CA:1363:A:N3	2.14	0.62
2:CE:194:PRO:HG2	2:CE:195:ASP:H	1.64	0.62
3:CF:111:LEU:HD21	3:CF:144:SER:O	2.00	0.62
11:CN:54:ARG:NH2	22:CD:39:C:O3'	2.28	0.62
13:CP:66:LEU:HA	13:CP:70:LEU:HD23	1.81	0.62
15:CR:26:GLU:CD	15:CR:77:ARG:NH1	2.58	0.62
24:DA:51:G:N2	24:DA:120:U:H6	1.95	0.62
24:DA:1056:G:H4'	24:DA:1057:A:C8	2.35	0.62
24:DA:1061:U:H4'	24:DA:1070:A:H1'	1.81	0.62
24:DA:1204:A:O2'	24:DA:1205:U:C5'	2.48	0.62
24:DA:1403:C:H5"	24:DA:1471:A:C1'	2.24	0.62
24:DA:2892:A:H2'	24:DA:2893:G:O4'	1.99	0.62
27:DE:131:ALA:HB1	27:DE:135:HIS:CE1	2.34	0.62
28:DF:32:LEU:CD1	28:DF:105:VAL:HG13	2.29	0.62
34:DO:112:LEU:HD11	34:DO:114:ILE:HG23	1.80	0.62
38:DR:105:LEU:C	38:DR:107:ASP:H	2.07	0.62
47:DW:17:SER:HB2	47:DW:18:PRO:CA	2.30	0.62
47:DW:40:SER:C	47:DW:42:GLY:N	2.51	0.62
1:AA:90:C:O2	1:AA:90:C:H2'	1.98	0.61
1:AA:321:A:N6	1:AA:328:C:O2'	2.33	0.61
1:AA:690:G:H2'	1:AA:691:G:O4'	2.00	0.61
1:AA:1018:C:H2'	1:AA:1019:C:O4'	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:188:ALA:HB1	2:AE:192:SER:HB2	1.82	0.61
4:AG:18:LYS:HG3	4:AG:21:LEU:HD21	1.81	0.61
6:AI:45:LEU:HD23	6:AI:46:ARG:N	2.15	0.61
11:AN:13:GLN:OE1	11:AN:13:GLN:CA	2.47	0.61
13:AP:118:ALA:HA	22:AC:29:G:H5'	1.82	0.61
15:AR:74:ASP:OD2	15:AR:77:ARG:HG2	1.99	0.61
24:BA:1059:G:H2'	24:BA:1060:U:C6	2.34	0.61
24:BA:2046:G:H5'	50:B5:19:ARG:HG3	1.81	0.61
24:BA:2420:C:OP1	53:B8:34:TRP:HB3	1.99	0.61
24:BA:2599:G:OP2	26:BD:236:GLY:N	2.28	0.61
26:BD:28:GLU:HB2	26:BD:29:PRO:CD	2.30	0.61
26:BD:134:ARG:HG3	26:BD:135:PHE:CD2	2.34	0.61
27:BE:62:PRO:C	27:BE:64:LYS:H	2.07	0.61
27:BE:81:ILE:HG21	27:BE:84:PHE:CD1	2.35	0.61
27:BE:92:THR:O	27:BE:95:ILE:HD11	1.99	0.61
30:BH:125:VAL:HG13	30:BH:126:PRO:CB	2.30	0.61
31:BK:77:LEU:CA	31:BK:140:LEU:HD12	2.30	0.61
32:BM:91:LEU:HA	32:BM:95:PRO:HB3	1.81	0.61
42:BT:36:LYS:HG3	42:BT:56:THR:HG23	1.82	0.61
43:BU:95:LYS:HZ2	43:BU:96:ILE:C	2.08	0.61
48:BX:8:LEU:HB2	48:BX:28:LEU:HD13	1.81	0.61
1:CA:983:A:O2'	1:CA:1049:U:O2'	2.18	0.61
1:CA:1027:C:H2'	1:CA:1028:C:C5	2.35	0.61
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.35	0.61
3:CF:127:ARG:HH11	3:CF:127:ARG:HG2	1.64	0.61
6:CI:8:ILE:HD11	6:CI:79:LEU:HD13	1.81	0.61
16:CS:20:VAL:HG21	16:CS:32:TYR:CD2	2.35	0.61
16:CS:51:VAL:CG1	16:CS:52:ASP:H	2.11	0.61
17:CT:65:ILE:HD12	17:CT:65:ILE:N	2.15	0.61
24:DA:8:A:H5"	32:DM:51:PHE:CZ	2.34	0.61
24:DA:696:G:O2'	24:DA:697:C:H5'	1.99	0.61
26:DD:70:TRP:CH2	26:DD:150:LYS:HA	2.35	0.61
27:DE:104:VAL:HG11	27:DE:188:VAL:HG23	1.82	0.61
31:DK:124:GLY:H	31:DK:142:VAL:HG23	1.65	0.61
38:DR:31:SER:HA	38:DR:44:ASP:OD2	2.00	0.61
39:D1:102:GLU:HG3	40:D2:2:PHE:CE2	2.34	0.61
45:D3:74:ARG:C	45:D3:76:GLY:H	2.08	0.61
52:D7:8:ASN:ND2	52:D7:8:ASN:C	2.56	0.61
1:AA:519:C:H2'	1:AA:520:A:H5'	1.81	0.61
1:AA:804:U:H5"	1:AA:805:C:OP2	2.00	0.61
2:AE:172:ILE:HD12	2:AE:172:ILE:N	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AH:20:GLN:NE2	5:AH:21:ALA:N	2.48	0.61
9:AL:20:ARG:HG2	9:AL:20:ARG:NH1	2.14	0.61
11:AN:87:THR:HG22	11:AN:87:THR:O	1.99	0.61
24:BA:347:A:O2'	24:BA:348:G:H5'	2.00	0.61
24:BA:894:C:H5'	24:BA:895:U:OP2	2.00	0.61
24:BA:1045:A:O2'	24:BA:1046:A:H5'	2.00	0.61
24:BA:2485:G:O2'	24:BA:2486:G:H5'	2.00	0.61
24:BA:2732:G:H3'	24:BA:2733:A:C5'	2.28	0.61
24:BA:2808:U:H2'	24:BA:2809:A:H5'	1.82	0.61
34:BO:115:LEU:HD13	34:BO:116:GLY:N	2.14	0.61
42:BT:63:LYS:H	42:BT:63:LYS:CD	2.09	0.61
44:BV:27:VAL:HA	44:BV:37:VAL:HG22	1.82	0.61
1:CA:280:C:C2	17:CT:38:ARG:HG3	2.35	0.61
1:CA:624:C:O3'	16:CS:10:GLY:HA2	1.99	0.61
9:CL:59:PHE:HZ	9:CL:88:TYR:CE1	2.17	0.61
9:CL:65:VAL:HG21	9:CL:73:GLN:HB3	1.81	0.61
13:CP:80:ARG:NH2	49:D4:70:GLY:HA3	2.15	0.61
24:DA:51:G:N2	24:DA:120:U:C6	2.65	0.61
24:DA:1791:A:H8	24:DA:1791:A:OP2	1.82	0.61
24:DA:1972:A:H2'	24:DA:1973:G:H8	1.66	0.61
24:DA:2319:G:H2'	24:DA:2319:G:N3	2.15	0.61
24:DA:2672:G:H3'	24:DA:2673:G:H5"	1.82	0.61
25:DB:90:C:OP1	35:DP:16:ARG:HG2	1.99	0.61
26:DD:182:LEU:H	26:DD:272:ALA:HB3	1.63	0.61
31:DK:33:ARG:HH11	31:DK:33:ARG:HG3	1.64	0.61
31:DK:88:ILE:HG12	31:DK:122:GLU:N	2.13	0.61
32:DM:62:VAL:CG1	32:DM:66:LYS:HD2	2.29	0.61
38:DR:24:PRO:O	38:DR:94:ALA:HB2	2.00	0.61
39:D1:79:PHE:CD2	39:D1:79:PHE:C	2.78	0.61
44:DV:132:ASN:HB2	44:DV:160:GLY:HA3	1.82	0.61
1:AA:451:A:H1'	1:AA:452:A:N7	2.15	0.61
1:AA:545:C:H5"	4:AG:72:GLU:HG2	1.81	0.61
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.35	0.61
2:AE:78:GLN:HG2	2:AE:94:ASN:HD21	1.65	0.61
3:AF:82:GLU:HG3	3:AF:83:ARG:N	2.00	0.61
5:AH:107:ARG:HG2	5:AH:108:ALA:N	2.14	0.61
5:AH:139:LEU:HD23	5:AH:142:LEU:HD11	1.82	0.61
7:AJ:77:SER:O	7:AJ:78:ARG:HD2	2.00	0.61
12:AO:46:LYS:HG2	12:AO:47:LYS:N	2.14	0.61
24:BA:90:U:O2	24:BA:90:U:C2'	2.41	0.61
24:BA:208:C:H2'	24:BA:209:C:H6	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:887:A:H2'	24:BA:887:A:N3	2.14	0.61
24:BA:953:A:OP2	35:BP:16:ARG:NH1	2.33	0.61
24:BA:1465:G:N2	24:BA:1466:G:H1'	2.15	0.61
24:BA:1620:G:O4'	52:B7:1:MET:N	2.32	0.61
26:BD:35:LYS:HZ3	26:BD:104:TYR:HB2	1.64	0.61
30:BH:159:GLU:HG3	30:BH:170:ARG:NH1	2.16	0.61
35:BP:38:GLU:OE2	35:BP:128:LYS:HD3	2.00	0.61
35:BP:141:GLN:C	44:BV:75:ASN:HA	2.25	0.61
36:B0:18:LEU:HD11	36:B0:22:ARG:HE	1.66	0.61
39:B1:66:ASN:O	39:B1:70:ARG:HG2	1.99	0.61
49:B4:63:TYR:CZ	49:B4:69:LYS:HE3	2.34	0.61
49:B4:66:SER:C	49:B4:68:ARG:H	2.09	0.61
1:CA:1039:C:H3'	1:CA:1040:U:H5"	1.82	0.61
1:CA:1067:A:HO2'	1:CA:1068:G:H8	1.48	0.61
1:CA:1177:G:H2'	1:CA:1178:G:C2	2.35	0.61
2:CE:17:PHE:CD2	2:CE:44:LEU:HD11	2.36	0.61
3:CF:189:ALA:O	3:CF:191:THR:HG23	1.99	0.61
11:CN:51:LYS:CA	11:CN:55:LYS:HD3	2.21	0.61
15:CR:74:ASP:OD1	15:CR:77:ARG:HG2	2.00	0.61
20:CW:34:LYS:O	20:CW:38:LYS:HB2	2.01	0.61
24:DA:26:G:C6	24:DA:27:G:N1	2.67	0.61
24:DA:372:G:C2'	24:DA:373:U:OP2	2.47	0.61
24:DA:747:U:C2	50:D5:2:ALA:HB3	2.35	0.61
24:DA:2419:U:OP1	51:D6:23:THR:HG21	1.99	0.61
26:DD:227:ASN:CB	26:DD:228:PRO:HD2	2.24	0.61
30:DH:6:ARG:HG3	30:DH:7:LEU:N	2.15	0.61
32:DM:133:GLN:O	32:DM:134:ARG:HB3	2.00	0.61
35:DP:2:LEU:HD23	35:DP:2:LEU:H	1.65	0.61
35:DP:54:MET:O	35:DP:57:HIS:HB3	2.00	0.61
42:DT:15:GLU:N	42:DT:15:GLU:OE1	2.34	0.61
1:AA:163:C:H2'	1:AA:164:U:O4'	2.00	0.61
1:AA:625:G:H2'	1:AA:626:U:H6	1.64	0.61
1:AA:991:U:O2'	1:AA:992:U:H4'	2.01	0.61
1:AA:1053:G:N7	1:AA:1200:C:H5"	2.14	0.61
1:AA:1176:A:N6	1:AA:1177:G:C6	2.68	0.61
3:AF:161:GLU:CD	3:AF:162:GLN:N	2.59	0.61
9:AL:25:LYS:HB3	9:AL:57:GLY:HA3	1.83	0.61
10:AM:79:ARG:O	10:AM:83:GLU:HB2	2.01	0.61
22:AD:65:C:H2'	22:AD:66:C:H5'	1.82	0.61
24:BA:1022:G:O2'	24:BA:1023:U:OP2	2.17	0.61
24:BA:1033:U:O2'	24:BA:1034:G:C5'	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1772:G:N2	24:BA:1774:C:H5”	2.15	0.61
24:BA:1946:U:H2’	24:BA:1947:C:H6	1.64	0.61
24:BA:2159:G:H2’	24:BA:2160:G:C8	2.35	0.61
24:BA:2287:A:O2’	24:BA:2288:A:H3’	2.00	0.61
24:BA:2497:A:H1’	24:BA:2498:C:H5	1.65	0.61
25:BB:29:A:H2’	25:BB:30:C:O4’	1.99	0.61
30:BH:8:PRO:C	30:BH:9:ILE:HG13	2.24	0.61
32:BM:70:LYS:HE2	32:BM:72:TYR:CE1	2.34	0.61
34:BO:115:LEU:HD22	34:BO:116:GLY:N	2.10	0.61
36:B0:38:VAL:HB	36:B0:39:PRO:HD3	1.83	0.61
37:BQ:23:ARG:HB3	37:BQ:86:ALA:HB2	1.82	0.61
40:B2:79:VAL:O	40:B2:80:GLN:CB	2.49	0.61
44:BV:10:ARG:HG2	44:BV:10:ARG:HH11	1.63	0.61
53:B8:25:MET:O	53:B8:48:PHE:CE1	2.53	0.61
1:CA:1160:G:H1	1:CA:1177:G:N2	1.98	0.61
1:CA:1378:C:O2	7:CJ:76:ARG:NH1	2.34	0.61
7:CJ:15:ASP:O	7:CJ:19:GLY:HA2	2.00	0.61
24:DA:622:G:O2’	24:DA:623:G:H5’	2.00	0.61
24:DA:774:A:C2	24:DA:787:U:O2’	2.52	0.61
24:DA:791:C:H4’	24:DA:792:G:OP1	1.99	0.61
25:DB:12:C:H4’	25:DB:13:A:C5’	2.30	0.61
27:DE:35:GLN:HG2	27:DE:37:ARG:NE	2.14	0.61
27:DE:174:ASP:CG	27:DE:175:VAL:N	2.58	0.61
30:DH:137:ASP:HB3	30:DH:140:LYS:HB2	1.81	0.61
37:DQ:17:ARG:HG3	37:DQ:18:ILE:N	2.14	0.61
37:DQ:49:VAL:HG22	37:DQ:80:LEU:HD12	1.82	0.61
40:D2:46:VAL:O	40:D2:46:VAL:HG13	2.01	0.61
41:DS:5:ALA:O	41:DS:50:VAL:HG13	2.00	0.61
49:D4:23:GLU:O	49:D4:25:TYR:N	2.33	0.61
51:D6:7:ILE:HG13	51:D6:8:LYS:N	2.06	0.61
53:D8:22:VAL:HG21	53:D8:53:PRO:HB2	1.82	0.61
53:D8:33:ASN:O	53:D8:34:TRP:C	2.42	0.61
1:AA:518:C:C5	1:AA:530:G:H5’	2.35	0.61
1:AA:539:A:H2’	1:AA:540:G:H8	1.63	0.61
1:AA:808:C:OP1	15:AR:48:LYS:HD2	2.00	0.61
1:AA:1158:C:O2	1:AA:1158:C:C2’	2.48	0.61
3:AF:150:LYS:HB2	3:AF:169:ALA:CB	2.29	0.61
3:AF:152:ILE:HG22	3:AF:152:ILE:O	1.99	0.61
6:AI:49:ALA:HB3	18:AU:79:LEU:O	1.99	0.61
9:AL:28:VAL:HG11	9:AL:63:ILE:H	1.66	0.61
20:AW:82:SER:HB2	20:AW:86:ARG:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AD:22:G:H2'	22:AD:23:C:H6	1.62	0.61
22:AD:54:U:N3	22:AD:58:A:N6	2.48	0.61
24:BA:464:U:H4'	52:B7:5:TRP:CZ3	2.35	0.61
24:BA:709:U:H2'	24:BA:710:G:C8	2.35	0.61
24:BA:2162:G:H4'	24:BA:2173:A:OP2	2.00	0.61
24:BA:2395:C:H2'	24:BA:2396:G:O4'	2.00	0.61
26:BD:2:ALA:O	26:BD:3:VAL:HB	2.00	0.61
27:BE:107:THR:O	27:BE:190:GLY:HA2	2.00	0.61
29:BG:122:PRO:HA	29:BG:125:PHE:CE1	2.35	0.61
30:BH:49:VAL:HG22	30:BH:50:VAL:N	2.16	0.61
44:BV:19:ARG:NH1	44:BV:84:GLU:O	2.32	0.61
52:B7:47:ARG:HB2	52:B7:47:ARG:NH1	2.15	0.61
1:CA:562:C:O2'	12:CO:15:ARG:HB3	2.01	0.61
1:CA:838:G:C2'	1:CA:841:U:H5"	2.30	0.61
1:CA:1188:A:H5"	14:CQ:58:LYS:HZ1	1.66	0.61
1:CA:1534:A:O2'	1:CA:1535:C:H5	1.83	0.61
2:CE:108:ILE:O	2:CE:111:ARG:HB2	2.01	0.61
4:CG:12:CYS:HB2	4:CG:31:CYS:O	2.00	0.61
5:CH:42:GLY:HA2	5:CH:136:MET:HE1	1.82	0.61
5:CH:131:ILE:O	5:CH:134:ALA:HB3	2.01	0.61
6:CI:89:MET:HE1	18:CU:76:LEU:HD22	1.82	0.61
10:CM:34:VAL:CG2	10:CM:74:ILE:HG22	2.30	0.61
24:DA:222:A:H3'	24:DA:421:U:H5'	1.82	0.61
24:DA:924:C:H2'	24:DA:925:C:C6	2.35	0.61
24:DA:1251:C:H4'	24:DA:1252:G:OP1	1.98	0.61
24:DA:1535:U:C3'	24:DA:1536:A:H5"	2.24	0.61
26:DD:27:THR:O	26:DD:29:PRO:HD2	1.99	0.61
26:DD:69:ARG:C	26:DD:71:ASP:H	2.08	0.61
35:DP:66:ILE:CG1	35:DP:67:ARG:H	2.12	0.61
43:DU:44:ILE:HG13	43:DU:45:VAL:H	1.64	0.61
1:AA:677:U:H2'	1:AA:678:U:C6	2.35	0.61
1:AA:690:G:N2	11:AN:55:LYS:HZ1	1.99	0.61
21:AX:9:ARG:C	21:AX:9:ARG:HD2	2.25	0.61
22:AD:3:C:H2'	22:AD:4:G:C8	2.35	0.61
24:BA:84:A:H4'	24:BA:85:G:O5'	2.00	0.61
24:BA:265:A:N7	24:BA:428:A:C6	2.69	0.61
24:BA:687:C:H2'	24:BA:687:C:O2	2.00	0.61
24:BA:1396:U:H5"	24:BA:1397:U:OP2	2.00	0.61
24:BA:1497:U:H5"	24:BA:1498:C:OP2	2.01	0.61
24:BA:2340:G:O2'	24:BA:2341:G:H5'	1.99	0.61
26:BD:142:VAL:HG21	26:BD:191:ALA:HB1	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:49:VAL:HG22	30:BH:50:VAL:HG12	1.81	0.61
31:BK:100:ALA:O	31:BK:102:SER:N	2.34	0.61
35:BP:81:VAL:HA	35:BP:82:ARG:HH12	1.64	0.61
35:BP:141:GLN:O	44:BV:75:ASN:HA	2.00	0.61
36:B0:2:ARG:HG2	36:B0:2:ARG:NH1	2.12	0.61
36:B0:44:LEU:HD13	36:B0:44:LEU:C	2.25	0.61
43:BU:21:LYS:O	43:BU:21:LYS:HG3	1.99	0.61
44:BV:94:GLU:O	44:BV:95:PRO:C	2.43	0.61
1:CA:104:G:O2'	1:CA:105:G:H5'	2.01	0.61
1:CA:630:G:H2'	1:CA:631:G:C4'	2.29	0.61
1:CA:818:G:H3'	1:CA:819:A:C5'	2.30	0.61
6:CI:69:GLU:O	6:CI:72:VAL:HG12	2.01	0.61
7:CJ:148:ASN:C	7:CJ:150:ALA:H	2.08	0.61
9:CL:28:VAL:HG13	9:CL:63:ILE:HG22	1.83	0.61
11:CN:121:PRO:HD2	11:CN:126:ARG:HD3	1.82	0.61
21:CX:15:ARG:HH11	21:CX:15:ARG:HG2	1.63	0.61
24:DA:688:U:H5'	24:DA:1780:A:C2	2.36	0.61
24:DA:1454:U:O2'	24:DA:1455:G:C8	2.51	0.61
24:DA:1820:U:H4'	24:DA:1821:A:OP2	1.98	0.61
24:DA:1833:U:O2	24:DA:1969:A:H2	1.84	0.61
26:DD:2:ALA:HB3	26:DD:20:ASP:HB3	1.83	0.61
26:DD:25:THR:HG21	26:DD:81:ALA:CA	2.31	0.61
27:DE:95:ILE:HD12	27:DE:95:ILE:N	2.15	0.61
29:DG:6:ALA:HB2	49:D4:23:GLU:OE2	1.99	0.61
29:DG:77:ILE:HD13	29:DG:82:LEU:CD1	2.29	0.61
30:DH:152:ARG:O	30:DH:153:LYS:CD	2.48	0.61
31:DK:63:ALA:HA	31:DK:66:GLU:CD	2.25	0.61
32:DM:7:LYS:CD	32:DM:9:VAL:H	2.13	0.61
36:D0:44:LEU:HD22	36:D0:48:VAL:HG23	1.82	0.61
44:DV:73:GLN:HB3	44:DV:87:ASP:OD1	2.01	0.61
1:AA:971:G:H2'	1:AA:1365:G:H4'	1.81	0.61
1:AA:990:C:H2'	1:AA:991:U:C6	2.35	0.61
1:AA:1126:U:H5"	1:AA:1280:A:N7	2.16	0.61
2:AE:127:ILE:HA	2:AE:130:ARG:HG2	1.81	0.61
7:AJ:79:ARG:CG	7:AJ:80:VAL:N	2.63	0.61
10:AM:96:ILE:HD13	10:AM:96:ILE:N	2.16	0.61
19:AV:15:LEU:O	19:AV:19:VAL:HG23	2.01	0.61
19:AV:36:ARG:NH1	19:AV:71:LEU:H	1.98	0.61
19:AV:36:ARG:HB2	19:AV:72:GLY:H	1.66	0.61
24:BA:428:A:N6	24:BA:429:A:C2	2.69	0.61
24:BA:434:U:C4'	24:BA:435:C:OP1	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:996:A:H4'	39:B1:92:ARG:NE	2.14	0.61
24:BA:1537:C:O2'	24:BA:1538:G:O4'	2.19	0.61
24:BA:1570:A:H2'	24:BA:1571:A:C8	2.36	0.61
24:BA:2159:G:H2'	24:BA:2160:G:H8	1.65	0.61
24:BA:2355:C:H5'	45:B3:36:ILE:HD11	1.81	0.61
24:BA:2602:A:O2'	24:BA:2603:G:OP2	2.17	0.61
24:BA:2751:G:OP1	30:BH:3:ARG:HA	1.99	0.61
24:BA:2875:C:C4'	38:BR:5:ALA:HB2	2.25	0.61
28:BF:61:GLY:HA2	28:BF:77:ASP:CB	2.31	0.61
29:BG:133:LEU:HD21	29:BG:157:ILE:HB	1.83	0.61
31:BK:107:VAL:HG12	31:BK:108:THR:N	2.13	0.61
32:BM:89:LYS:O	32:BM:92:ALA:HB3	2.01	0.61
42:BT:60:ARG:O	42:BT:61:GLY:O	2.19	0.61
43:BU:75:ILE:CG1	43:BU:80:GLY:N	2.61	0.61
1:CA:692:U:H5	11:CN:26:ASN:HD21	1.47	0.61
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.35	0.61
1:CA:1221:G:O3'	19:CV:77:THR:HG21	2.01	0.61
4:CG:149:ALA:HB3	4:CG:152:SER:HB2	1.82	0.61
6:CI:10:LEU:HD13	6:CI:61:LEU:CD1	2.30	0.61
6:CI:77:ARG:HB2	6:CI:77:ARG:NH1	2.15	0.61
12:CO:85:ILE:HD11	12:CO:98:TYR:HB2	1.81	0.61
15:CR:68:ARG:O	15:CR:72:ARG:HB2	2.00	0.61
24:DA:102:G:O2'	24:DA:103:A:OP2	2.18	0.61
24:DA:161:U:H3'	24:DA:162:U:C5'	2.29	0.61
24:DA:1021:A:N6	24:DA:1141:U:O2	2.33	0.61
24:DA:1372:U:H5'	24:DA:1372:U:C6	2.35	0.61
24:DA:1803:A:H4'	26:DD:259:THR:HG21	1.81	0.61
24:DA:1952:A:C5	33:DN:22:ILE:HD12	2.35	0.61
24:DA:2404:C:H1'	34:DO:67:MET:CE	2.30	0.61
27:DE:69:LYS:C	27:DE:71:GLY:H	2.09	0.61
28:DF:119:ARG:HH11	28:DF:119:ARG:HG2	1.64	0.61
31:DK:8:PRO:O	31:DK:9:LEU:HB3	1.99	0.61
32:DM:96:GLU:O	32:DM:98:VAL:N	2.33	0.61
33:DN:8:LEU:HB2	33:DN:19:ILE:HD11	1.81	0.61
43:DU:19:LYS:O	43:DU:19:LYS:HG3	2.01	0.61
47:DW:41:ILE:HD11	47:DW:44:LEU:HG	1.82	0.61
48:DX:5:LYS:HB2	48:DX:36:VAL:HG12	1.82	0.61
51:D6:18:ARG:O	51:D6:18:ARG:HD2	2.00	0.61
53:D8:29:LYS:HD3	53:D8:44:LYS:CB	2.30	0.61
1:AA:426:G:H2'	1:AA:427:U:C6	2.36	0.61
1:AA:1028:C:O5'	1:AA:1028:C:H6	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:11:LEU:C	4:AG:13:ARG:H	2.09	0.61
8:AK:29:SER:HB3	8:AK:32:LYS:HB2	1.81	0.61
12:AO:19:ARG:HG2	12:AO:20:LYS:N	2.16	0.61
14:AQ:3:ARG:O	14:AQ:7:ILE:HG23	2.01	0.61
19:AV:36:ARG:CZ	19:AV:73:GLU:HB2	2.31	0.61
24:BA:277:C:H5"	24:BA:278:A:N7	2.16	0.61
24:BA:458:G:O2'	24:BA:459:U:P	2.58	0.61
24:BA:1937:A:O2'	24:BA:1938:A:P	2.59	0.61
24:BA:1948:G:C2'	24:BA:1949:G:H5'	2.29	0.61
24:BA:2150:U:H2'	24:BA:2151:G:H8	1.65	0.61
27:BE:63:LEU:O	27:BE:63:LEU:HD23	2.01	0.61
33:BN:98:VAL:HG12	33:BN:117:LEU:HB3	1.82	0.61
34:BO:19:VAL:HG13	34:BO:21:ARG:H	1.66	0.61
34:BO:71:VAL:CG1	34:BO:72:PRO:HD3	2.30	0.61
36:B0:44:LEU:HD13	36:B0:44:LEU:O	2.01	0.61
41:BS:106:ILE:O	41:BS:106:ILE:HG13	2.00	0.61
43:BU:36:ALA:HA	43:BU:69:ALA:H	1.65	0.61
43:BU:95:LYS:HZ2	43:BU:96:ILE:N	1.98	0.61
44:BV:34:ASN:N	44:BV:34:ASN:HD22	1.99	0.61
44:BV:87:ASP:N	44:BV:87:ASP:OD2	2.34	0.61
44:BV:107:THR:OG1	44:BV:108:PRO:HD3	2.00	0.61
52:B7:28:ARG:HG3	52:B7:28:ARG:NH1	2.15	0.61
2:CE:21:ARG:HG3	2:CE:38:GLY:O	2.01	0.61
3:CF:13:GLY:HA3	14:CQ:57:ARG:CZ	2.31	0.61
4:CG:106:TYR:HE1	4:CG:112:VAL:O	1.82	0.61
13:CP:96:LEU:HB3	13:CP:97:PRO:HD2	1.83	0.61
13:CP:117:VAL:HG22	13:CP:118:ALA:N	2.15	0.61
15:CR:76:GLU:C	15:CR:78:TYR:H	2.08	0.61
19:CV:41:VAL:CB	19:CV:42:PRO:CA	2.76	0.61
22:CC:17:C:H2'	22:CC:17(A):C:C5	2.36	0.61
24:DA:387:U:H4'	24:DA:388:G:O5'	2.00	0.61
24:DA:1045:A:H5"	24:DA:1047:G:H1'	1.83	0.61
24:DA:1187:G:H8	24:DA:1187:G:O5'	1.83	0.61
24:DA:1799:G:N2	24:DA:1818:U:O2'	2.34	0.61
25:DB:95:U:C6	25:DB:95:U:H3'	2.35	0.61
26:DD:137:PRO:HB2	26:DD:140:THR:HG23	1.81	0.61
26:DD:147:LEU:CD1	26:DD:155:LEU:HD11	2.26	0.61
27:DE:52:LEU:HB3	27:DE:54:GLN:OE1	2.00	0.61
28:DF:164:ARG:HH11	28:DF:164:ARG:HG2	1.66	0.61
31:DK:21:VAL:HG22	31:DK:22:LYS:N	2.16	0.61
33:DN:78:ARG:HH21	38:DR:103:ARG:NH2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:D0:38:VAL:HB	36:D0:39:PRO:HD3	1.81	0.61
41:DS:28:SER:O	41:DS:31:GLU:N	2.34	0.61
49:D4:64:GLY:C	49:D4:66:SER:H	2.07	0.61
51:D6:27:LYS:HB2	51:D6:27:LYS:HZ3	1.66	0.61
1:AA:4:U:O4	8:AK:105:ARG:HD3	2.00	0.61
1:AA:96:G:H2'	1:AA:97:U:O4'	2.00	0.61
1:AA:713:G:N2	1:AA:777:A:C1'	2.64	0.61
4:AG:127:THR:HG23	4:AG:147:ALA:HB3	1.82	0.61
4:AG:178:VAL:HG12	4:AG:179:GLU:N	2.14	0.61
8:AK:103:VAL:HG21	8:AK:110:ALA:HB2	1.83	0.61
10:AM:34:VAL:HG22	10:AM:74:ILE:HG22	1.81	0.61
13:AP:97:PRO:HA	13:AP:110:ARG:HD3	1.81	0.61
20:AW:36:LEU:HD12	20:AW:59:ALA:HB2	1.81	0.61
24:BA:1469:A:H2'	24:BA:1470:G:H8	1.64	0.61
24:BA:1688:U:H1'	24:BA:1701:A:C6	2.36	0.61
24:BA:2776:A:O2'	24:BA:2777:G:OP2	2.17	0.61
28:BF:4:VAL:HG22	28:BF:19:GLU:OE1	2.01	0.61
28:BF:143:ALA:HB1	28:BF:148:LEU:HB2	1.82	0.61
30:BH:126:PRO:CB	30:BH:128:PRO:N	2.63	0.61
35:BP:26:TYR:C	35:BP:28:ALA:N	2.59	0.61
36:B0:107:ASP:OD2	36:B0:107:ASP:C	2.44	0.61
38:BR:117:ASP:O	38:BR:119:LYS:N	2.33	0.61
38:BR:129:ARG:C	38:BR:131:ALA:H	2.09	0.61
40:B2:1:MET:HG2	40:B2:2:PHE:N	2.16	0.61
44:BV:103:ARG:N	44:BV:139:VAL:HG23	2.14	0.61
44:BV:171:ILE:O	44:BV:172:ALA:CB	2.47	0.61
1:CA:510:A:OP2	4:CG:49:ARG:NH2	2.33	0.61
1:CA:564:C:H5'	17:CT:32:TYR:CD2	2.36	0.61
1:CA:963:G:N2	10:CM:55:LYS:HD3	2.15	0.61
1:CA:1004:A:C2'	1:CA:1005:A:O5'	2.48	0.61
4:CG:162:LEU:CD1	4:CG:181:MET:HB3	2.31	0.61
4:CG:196:LEU:HD12	4:CG:196:LEU:N	2.15	0.61
6:CI:98:LEU:O	6:CI:98:LEU:HD12	2.01	0.61
8:CK:23:SER:HA	8:CK:63:LEU:CD2	2.24	0.61
9:CL:13:ALA:HB2	9:CL:67:GLY:O	2.00	0.61
24:DA:451:C:H4'	28:DF:52:LYS:NZ	2.16	0.61
24:DA:1359:A:H2'	24:DA:1360:A:H5'	1.82	0.61
24:DA:2473:U:H2'	24:DA:2473:U:O2	1.99	0.61
27:DE:35:GLN:CG	27:DE:37:ARG:HE	2.10	0.61
29:DG:44:GLY:HA2	29:DG:88:ILE:CG1	2.30	0.61
33:DN:91:LEU:N	33:DN:91:LEU:HD22	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DO:96:THR:HG22	34:DO:126:VAL:HB	1.82	0.61
35:DP:20:ALA:HB1	35:DP:99:PRO:CD	2.30	0.61
40:D2:41:GLY:H	40:D2:46:VAL:HG13	1.66	0.61
42:DT:14:SER:O	42:DT:17:ALA:N	2.34	0.61
42:DT:66:LEU:O	42:DT:66:LEU:HD23	2.01	0.61
48:DX:59:VAL:HG12	48:DX:60:GLU:N	2.16	0.61
49:D4:71:ARG:NH1	49:D4:71:ARG:CG	2.61	0.61
51:D6:41:PRO:HD2	51:D6:46:HIS:N	2.16	0.61
22:CB:23:G:C2'	22:CB:24:C:H5"	2.30	0.61
1:AA:1003:G:H2'	1:AA:1004:A:H5'	1.83	0.61
1:AA:1106:G:H5"	3:AF:172:ARG:HG2	1.83	0.61
2:AE:32:ILE:HG12	2:AE:33:TYR:N	2.16	0.61
4:AG:196:LEU:HD12	4:AG:196:LEU:N	2.12	0.61
13:AP:34:LEU:CA	13:AP:39:ILE:HG13	2.31	0.61
18:AU:28:GLU:O	18:AU:28:GLU:HG3	2.01	0.61
24:BA:274:G:H2'	24:BA:275:G:O4'	2.00	0.61
24:BA:310:A:OP1	43:BU:18:GLY:HA2	2.00	0.61
24:BA:1188:U:H2'	24:BA:1189:A:H5'	1.82	0.61
24:BA:2031:A:C6	24:BA:2498:C:H1'	2.35	0.61
24:BA:2305:A:C3'	24:BA:2306:C:H5"	2.30	0.61
24:BA:2378:A:H4'	37:BQ:23:ARG:HH12	1.62	0.61
24:BA:2472:G:N2	24:BA:2529:G:O6	2.34	0.61
28:BF:121:GLY:C	28:BF:122:LYS:HD3	2.26	0.61
33:BN:91:LEU:HD22	33:BN:91:LEU:N	2.15	0.61
34:BO:128:HIS:O	34:BO:147:LEU:HB3	2.00	0.61
35:BP:63:LYS:O	35:BP:64:ILE:C	2.44	0.61
35:BP:141:GLN:CG	44:BV:73:GLN:HG2	2.31	0.61
38:BR:8:LYS:HB2	38:BR:8:LYS:HZ3	1.63	0.61
1:CA:401:C:H2'	1:CA:402:G:C8	2.35	0.61
1:CA:667:G:H4'	15:CR:51:HIS:CE1	2.36	0.61
1:CA:1182:G:H4'	1:CA:1183:A:C5'	2.30	0.61
3:CF:141:VAL:O	3:CF:146:ALA:HB3	2.01	0.61
6:CI:45:LEU:HD12	6:CI:59:TYR:HD1	1.66	0.61
7:CJ:79:ARG:HG2	7:CJ:79:ARG:HH11	1.66	0.61
8:CK:102:ARG:HH11	8:CK:105:ARG:NH2	1.99	0.61
10:CM:22:LYS:HD2	10:CM:22:LYS:C	2.25	0.61
11:CN:78:GLN:O	11:CN:103:LEU:HA	2.01	0.61
13:CP:4:ILE:H	13:CP:9:ILE:HG22	1.62	0.61
18:CU:25:THR:HG22	18:CU:25:THR:O	2.00	0.61
19:CV:16:LEU:O	19:CV:20:LEU:HG	2.01	0.61
22:CD:71:C:H2'	22:CD:72:A:C8	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:84:A:H62	24:DA:102:G:H1'	1.65	0.61
24:DA:370:G:H4'	24:DA:371:A:OP2	2.01	0.61
24:DA:483:A:H3'	24:DA:484:C:H6	1.66	0.61
24:DA:1022:G:HO2'	24:DA:1023:U:P	2.24	0.61
24:DA:2168:G:C2	24:DA:2170:A:OP2	2.54	0.61
24:DA:2208:U:C1'	26:DD:151:LYS:HE2	2.31	0.61
26:DD:54:ARG:HH11	26:DD:54:ARG:CG	2.14	0.61
26:DD:133:LEU:HD21	26:DD:191:ALA:HB2	1.82	0.61
26:DD:263:ARG:HH11	26:DD:263:ARG:CB	2.14	0.61
27:DE:131:ALA:HB1	27:DE:135:HIS:HE1	1.65	0.61
35:DP:66:ILE:CG1	35:DP:67:ARG:N	2.64	0.61
37:DQ:89:ARG:O	37:DQ:90:GLY:O	2.19	0.61
41:DS:82:LEU:HB2	41:DS:98:LYS:HB2	1.82	0.61
22:CB:16:C:O2'	22:CB:61:U:O3'	2.19	0.61
1:AA:16:A:O2'	1:AA:17:U:H5'	2.01	0.60
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.66	0.60
8:AK:20:TYR:HD1	8:AK:65:TYR:CE2	2.19	0.60
9:AL:18:PHE:O	9:AL:19:LEU:CB	2.49	0.60
10:AM:45:ARG:HB3	10:AM:65:LEU:HB3	1.83	0.60
12:AO:82:VAL:HG12	12:AO:83:VAL:N	2.14	0.60
22:AD:6:G:HO2'	22:AD:7:G:H8	1.49	0.60
24:BA:1453:A:H5"	24:BA:1454:U:OP2	2.01	0.60
24:BA:1498:C:O4'	24:BA:1577:C:H4'	2.01	0.60
26:BD:115:GLN:HG2	26:BD:116:GLN:N	2.14	0.60
26:BD:263:ARG:CB	26:BD:263:ARG:NH1	2.61	0.60
28:BF:27:GLU:O	28:BF:28:ILE:HG13	2.00	0.60
35:BP:66:ILE:HG12	35:BP:67:ARG:N	2.16	0.60
38:BR:88:ILE:HD12	38:BR:89:VAL:N	2.16	0.60
40:B2:41:GLY:C	40:B2:46:VAL:HG11	2.26	0.60
43:BU:45:VAL:HA	43:BU:62:GLU:HA	1.83	0.60
43:BU:62:GLU:CD	43:BU:63:LYS:N	2.58	0.60
44:BV:72:ARG:O	44:BV:73:GLN:HB2	1.99	0.60
47:BW:17:SER:HB2	47:BW:18:PRO:CA	2.31	0.60
47:BW:17:SER:CB	47:BW:21:LEU:H	2.14	0.60
53:B8:61:LEU:CD1	53:B8:62:LEU:H	2.14	0.60
1:CA:953:G:H5'	1:CA:965:A:H61	1.66	0.60
1:CA:1004:A:H2'	1:CA:1005:A:O5'	2.01	0.60
1:CA:1128:C:H5'	9:CL:16:ARG:NH2	2.16	0.60
3:CF:88:ARG:NH1	3:CF:101:LEU:H	1.99	0.60
4:CG:12:CYS:HA	4:CG:19:LEU:CD2	2.31	0.60
5:CH:43:LEU:HD21	5:CH:132:ALA:HB1	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:79:GLU:HB3	5:CH:92:LYS:HA	1.83	0.60
22:CD:60:U:H5"	22:CD:61:C:OP2	2.01	0.60
24:DA:1503:U:H2'	24:DA:1504:C:H6	1.65	0.60
24:DA:2275:C:O2'	35:DP:83:MET:HA	2.00	0.60
24:DA:2563:U:H4'	33:DN:28:SER:HA	1.82	0.60
26:DD:35:LYS:NZ	26:DD:65:ILE:HA	2.15	0.60
34:DO:27:HIS:N	34:DO:27:HIS:ND1	2.49	0.60
38:DR:34:VAL:HG12	38:DR:36:GLU:HG2	1.83	0.60
1:AA:191(C):G:C3'	1:AA:191(D):U:H5"	2.31	0.60
1:AA:382:A:H2'	1:AA:383:A:C8	2.35	0.60
1:AA:501:C:OP1	12:AO:124:LYS:NZ	2.32	0.60
1:AA:674:G:H2'	1:AA:675:A:H8	1.66	0.60
1:AA:1363:A:H4'	1:AA:1364:U:OP1	2.00	0.60
1:AA:1529:G:H5"	1:AA:1530:G:OP2	2.01	0.60
4:AG:19:LEU:HD12	4:AG:19:LEU:H	1.66	0.60
4:AG:98:GLU:HG3	4:AG:103:ASN:ND2	2.16	0.60
15:AR:17:ARG:NH1	15:AR:77:ARG:HH12	1.99	0.60
16:AS:63:GLY:O	16:AS:64:ALA:HB2	1.99	0.60
24:BA:1434:A:N6	24:BA:1558:A:N6	2.40	0.60
24:BA:2261:C:O2'	24:BA:2262:U:H5'	2.01	0.60
26:BD:35:LYS:HD3	26:BD:63:ARG:CG	2.31	0.60
26:BD:75:ILE:HG21	26:BD:99:ASP:HB2	1.82	0.60
29:BG:43:LEU:CD2	29:BG:90:LEU:HD23	2.31	0.60
29:BG:60:LEU:O	29:BG:60:LEU:HD23	2.01	0.60
29:BG:120:LEU:O	29:BG:180:PHE:HA	2.01	0.60
43:BU:63:LYS:HZ1	43:BU:64:GLU:H	1.46	0.60
1:CA:105:G:H2'	1:CA:106:C:C6	2.35	0.60
1:CA:464:G:N2	1:CA:468:A:N7	2.50	0.60
1:CA:1380:U:H5"	1:CA:1381:U:OP1	2.01	0.60
2:CE:90:MET:HE2	2:CE:90:MET:HA	1.83	0.60
3:CF:77:ILE:C	3:CF:83:ARG:HB3	2.26	0.60
8:CK:49:GLU:O	8:CK:51:VAL:HG13	2.01	0.60
10:CM:5:ARG:O	10:CM:98:ILE:HA	2.01	0.60
13:CP:97:PRO:HB2	13:CP:101:GLN:HE22	1.65	0.60
17:CT:67:LYS:HA	17:CT:70:ARG:NH1	2.15	0.60
22:CD:67:C:H2'	22:CD:68:C:H6	1.66	0.60
24:DA:33:U:O4	24:DA:446:G:O2'	2.17	0.60
24:DA:389:G:O6	34:DO:70:GLN:HB3	2.00	0.60
24:DA:481:G:O2'	24:DA:482:A:OP2	2.15	0.60
24:DA:1301:A:H2'	24:DA:1302:A:C3'	2.25	0.60
24:DA:1930:G:O2'	24:DA:1931:U:OP2	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2533:A:H2'	24:DA:2534:A:O4'	2.00	0.60
25:DB:3:C:H2'	25:DB:4:C:C6	2.35	0.60
26:DD:35:LYS:NZ	26:DD:64:ILE:O	2.32	0.60
26:DD:237:GLU:OE1	26:DD:237:GLU:CA	2.48	0.60
27:DE:53:PRO:HG2	27:DE:54:GLN:NE2	2.16	0.60
30:DH:44:VAL:HG22	30:DH:44:VAL:O	2.01	0.60
32:DM:99:LEU:O	32:DM:103:VAL:HG23	2.02	0.60
44:DV:93:ASP:O	44:DV:94:GLU:CD	2.44	0.60
44:DV:124:ILE:HD11	44:DV:165:VAL:HG21	1.82	0.60
22:CB:54:G:O2'	22:CB:55:U:H5'	2.00	0.60
1:AA:1129:C:H5'	1:AA:1130:A:OP1	2.01	0.60
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.36	0.60
2:AE:140:HIS:O	2:AE:143:GLU:HB3	2.01	0.60
6:AI:22:GLU:HA	6:AI:22:GLU:OE2	2.01	0.60
11:AN:103:LEU:N	11:AN:103:LEU:HD22	2.16	0.60
12:AO:55:VAL:CG1	12:AO:56:ALA:H	2.14	0.60
19:AV:7:LYS:HE3	19:AV:8:GLY:N	2.15	0.60
19:AV:61:TYR:HE2	19:AV:63:THR:OG1	1.83	0.60
19:AV:64:GLU:O	19:AV:66:MET:HG3	2.01	0.60
20:AW:72:LEU:HD23	20:AW:73:HIS:O	2.01	0.60
24:BA:10:G:H2'	24:BA:11:G:H8	1.66	0.60
24:BA:897:C:O2'	24:BA:898:C:H5'	2.01	0.60
24:BA:943:U:OP2	34:BO:36:LYS:CE	2.49	0.60
24:BA:1171:G:H4'	24:BA:1173:G:OP1	2.00	0.60
24:BA:1485:G:H8	24:BA:1485:G:H5'	1.67	0.60
24:BA:1578:U:H2'	24:BA:1579:A:C5'	2.31	0.60
28:BF:67:GLN:O	28:BF:67:GLN:HG3	1.99	0.60
30:BH:22:GLY:O	30:BH:37:VAL:HB	2.01	0.60
1:CA:968:A:C4'	1:CA:969:A:OP2	2.49	0.60
2:CE:221:LEU:HD13	2:CE:221:LEU:O	2.02	0.60
3:CF:47:LEU:O	3:CF:52:LEU:HD22	2.01	0.60
3:CF:130:VAL:O	3:CF:134:ILE:HG12	2.01	0.60
4:CG:90:GLY:CA	4:CG:204:ILE:HD11	2.31	0.60
4:CG:129:ASN:HA	4:CG:145:GLU:HB2	1.82	0.60
8:CK:6:ILE:HB	8:CK:85:ARG:HH12	1.62	0.60
12:CO:5:PRO:HA	12:CO:9:GLN:NE2	2.16	0.60
16:CS:47:ASP:C	16:CS:49:LEU:H	2.09	0.60
24:DA:2285:C:H5	51:D6:27:LYS:HE2	1.66	0.60
26:DD:147:LEU:HD13	26:DD:155:LEU:CD1	2.29	0.60
27:DE:63:LEU:CD1	27:DE:64:LYS:H	2.04	0.60
28:DF:108:LYS:HZ3	28:DF:108:LYS:HA	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:133:HIS:HD2	31:DK:134:PRO:HD2	1.63	0.60
39:D1:69:CYS:HB3	39:D1:106:PHE:CZ	2.36	0.60
44:DV:5:LEU:C	44:DV:5:LEU:HD13	2.26	0.60
44:DV:158:PRO:CB	44:DV:159:PRO:HD2	2.29	0.60
1:AA:598:U:H4'	8:AK:94:TYR:CD2	2.35	0.60
2:AE:102:LEU:O	2:AE:103:THR:C	2.42	0.60
2:AE:121:LEU:HB3	2:AE:127:ILE:CG1	2.31	0.60
3:AF:119:ARG:HH22	3:AF:140:ARG:HD2	1.66	0.60
3:AF:141:VAL:O	3:AF:146:ALA:HB3	2.01	0.60
4:AG:79:PHE:O	4:AG:82:ALA:HB3	2.01	0.60
5:AH:51:VAL:O	5:AH:55:VAL:HG23	2.01	0.60
24:BA:574:C:H1'	24:BA:2055:C:C6	2.36	0.60
24:BA:1005:C:H1'	24:BA:1143:A:C2	2.35	0.60
24:BA:1033:U:O2'	24:BA:1034:G:O5'	2.19	0.60
24:BA:1047:G:C2'	24:BA:1110:G:N2	2.63	0.60
24:BA:1252:G:O4'	39:B1:33:ARG:HD3	2.01	0.60
24:BA:1405:U:H2'	24:BA:1406:U:H6	1.66	0.60
24:BA:2303:G:C2'	24:BA:2304:G:H5'	2.31	0.60
26:BD:72:LYS:HB3	26:BD:72:LYS:HZ3	1.66	0.60
32:BM:16:ILE:HD13	32:BM:137:LYS:HB2	1.82	0.60
32:BM:17:ASP:O	32:BM:18:ALA:HB2	2.00	0.60
33:BN:22:ILE:HB	33:BN:40:VAL:O	2.01	0.60
34:BO:52:GLU:HB2	34:BO:55:ARG:HB3	1.84	0.60
46:BZ:91:LYS:C	46:BZ:93:GLU:N	2.59	0.60
1:CA:38:G:C2	1:CA:397:A:C2	2.90	0.60
1:CA:376:G:C5'	16:CS:5:ARG:HD2	2.32	0.60
1:CA:863:U:H2'	1:CA:865:A:OP2	2.02	0.60
1:CA:1003:G:N2	1:CA:1004:A:O3'	2.35	0.60
3:CF:70:VAL:O	3:CF:106:VAL:HG23	2.01	0.60
4:CG:146:ILE:HD12	4:CG:146:ILE:H	1.66	0.60
6:CI:61:LEU:HB3	6:CI:63:TYR:HE2	1.67	0.60
16:CS:40:ASP:OD2	16:CS:42:ARG:HB2	2.02	0.60
24:DA:943:U:OP2	34:DO:36:LYS:CG	2.49	0.60
24:DA:1112:G:H2'	24:DA:1113:U:C6	2.35	0.60
24:DA:1419:A:N6	24:DA:1578:U:O2	2.33	0.60
24:DA:2415:G:H4'	34:DO:67:MET:N	2.16	0.60
24:DA:2784:C:H5"	27:DE:41:LYS:NZ	2.16	0.60
27:DE:37:ARG:NE	27:DE:37:ARG:CA	2.64	0.60
31:DK:65:ALA:O	31:DK:67:ARG:N	2.34	0.60
34:DO:13:ASN:O	34:DO:15:ARG:N	2.34	0.60
37:DQ:99:LYS:O	37:DQ:102:ALA:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:D1:88:ILE:H	39:D1:88:ILE:CD1	2.05	0.60
43:DU:101:LYS:HE3	43:DU:102:CYS:SG	2.40	0.60
1:AA:376:G:C4'	16:AS:5:ARG:HD3	2.31	0.60
1:AA:451:A:N6	1:AA:481:G:C8	2.69	0.60
1:AA:595:G:O2'	1:AA:596:C:OP2	2.17	0.60
1:AA:633:G:H2'	1:AA:634:C:C6	2.37	0.60
1:AA:1502:A:H2	1:AA:1505:G:N1	1.99	0.60
3:AF:120:VAL:C	3:AF:122:GLU:N	2.59	0.60
8:AK:23:SER:HA	8:AK:63:LEU:CD2	2.31	0.60
24:BA:185:U:H4'	24:BA:218:A:H4'	1.82	0.60
24:BA:239:U:H2'	24:BA:240:G:O4'	2.01	0.60
24:BA:639:U:H2'	24:BA:640:C:H6	1.66	0.60
27:BE:86:PRO:C	27:BE:88:GLY:H	2.09	0.60
28:BF:25:PRO:O	28:BF:26:ALA:HB3	2.02	0.60
29:BG:101:ILE:O	29:BG:105:LYS:HG3	2.01	0.60
30:BH:3:ARG:O	30:BH:3:ARG:HD2	2.00	0.60
30:BH:126:PRO:HB3	30:BH:128:PRO:N	2.16	0.60
35:BP:141:GLN:HG3	44:BV:73:GLN:HG2	1.84	0.60
40:B2:69:LYS:NZ	40:B2:85:LYS:NZ	2.50	0.60
1:CA:192:U:H4'	20:CW:103:GLY:HA2	1.82	0.60
1:CA:1101:A:C4'	1:CA:1102:A:O5'	2.36	0.60
7:CJ:113:GLU:CB	7:CJ:119:ARG:HG2	2.29	0.60
9:CL:85:LEU:HD12	9:CL:85:LEU:O	2.02	0.60
9:CL:111:ARG:HG2	9:CL:112:LYS:N	2.16	0.60
13:CP:9:ILE:HD12	13:CP:9:ILE:O	2.01	0.60
13:CP:37:THR:CG2	13:CP:39:ILE:HD11	2.32	0.60
19:CV:11:VAL:O	19:CV:12:ASP:HB2	2.00	0.60
19:CV:64:GLU:OE2	49:D4:55:ARG:NH2	2.31	0.60
24:DA:173:G:H2'	24:DA:174:C:C6	2.37	0.60
24:DA:397:G:OP2	46:DZ:10:LYS:NZ	2.29	0.60
24:DA:443:A:C5	28:DF:45:ARG:HD2	2.36	0.60
24:DA:470:A:H8	24:DA:470:A:C5'	2.13	0.60
24:DA:1864:U:H3'	24:DA:1869:G:H5"	1.83	0.60
24:DA:2051:A:N6	24:DA:2614:A:H2'	2.14	0.60
26:DD:35:LYS:HG2	26:DD:64:ILE:CG2	2.31	0.60
28:DF:34:TRP:CZ3	34:DO:8:PRO:HB3	2.36	0.60
29:DG:28:VAL:O	29:DG:31:VAL:HG12	2.01	0.60
32:DM:23:LEU:HD12	32:DM:99:LEU:HD23	1.82	0.60
35:DP:79:LEU:O	35:DP:80:GLU:CD	2.44	0.60
41:DS:36:LEU:HD11	41:DS:47:VAL:HG12	1.83	0.60
41:DS:65:LEU:O	41:DS:66:GLU:C	2.43	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:113:ALA:O	44:DV:115:GLY:N	2.34	0.60
46:DZ:80:LEU:O	46:DZ:81:LYS:HD2	2.01	0.60
49:D4:38:LYS:C	49:D4:40:HIS:N	2.52	0.60
51:D6:13:CYS:O	51:D6:21:TYR:HA	2.02	0.60
22:CB:49:C:C4	22:CB:60:A:H1'	2.35	0.60
1:AA:518:C:O2'	12:AO:50:SER:HB3	2.02	0.60
1:AA:971:G:H5"	1:AA:972:C:H5"	1.83	0.60
1:AA:1024:G:H4'	1:AA:1025:U:OP1	2.00	0.60
1:AA:1374:A:HO2'	7:AJ:28:ASN:HB3	1.67	0.60
2:AE:70:PHE:HE1	2:AE:90:MET:HB2	1.66	0.60
5:AH:19:MET:HE1	5:AH:24:ARG:HH21	1.66	0.60
5:AH:144:THR:C	5:AH:146:ALA:N	2.57	0.60
10:AM:4:ILE:HB	10:AM:74:ILE:CD1	2.27	0.60
24:BA:671:C:H5'	24:BA:671:C:H6	1.66	0.60
24:BA:704:G:H1'	24:BA:727:A:N6	2.16	0.60
25:BB:33:G:H2'	25:BB:34:U:O4'	2.02	0.60
26:BD:117:VAL:CG2	26:BD:118:VAL:N	2.63	0.60
29:BG:135:LEU:HD12	29:BG:135:LEU:N	2.17	0.60
36:B0:104:ARG:HB3	36:B0:107:ASP:OD2	2.02	0.60
43:BU:72:VAL:HG23	43:BU:73:ARG:H	1.66	0.60
49:B4:56:VAL:HG13	49:B4:57:GLU:HG3	1.84	0.60
1:CA:8:A:H1'	5:CH:102:ALA:C	2.26	0.60
1:CA:49:U:O2	1:CA:362:G:H1'	2.00	0.60
1:CA:110:C:H2'	1:CA:111:G:O4'	2.01	0.60
1:CA:412:A:O2'	1:CA:413:G:OP2	2.20	0.60
1:CA:1535:C:H2'	1:CA:1536:C:H5	1.67	0.60
2:CE:69:LEU:O	2:CE:162:ILE:HA	2.02	0.60
2:CE:141:GLU:O	2:CE:145:LEU:HD23	2.01	0.60
20:CW:74:LYS:C	20:CW:76:ALA:H	2.10	0.60
24:DA:592:G:N2	53:D8:4:MET:HE2	2.14	0.60
24:DA:719:C:O2'	24:DA:720:C:H5'	2.02	0.60
24:DA:1011:G:H4'	24:DA:1012:U:OP1	2.02	0.60
24:DA:1204:A:H1'	24:DA:1206:G:C8	2.37	0.60
24:DA:1497:U:H5'	24:DA:1498:C:OP2	2.02	0.60
24:DA:1588:C:H2'	24:DA:1589:C:H6	1.67	0.60
24:DA:2111:C:C5	24:DA:2147:G:N2	2.70	0.60
24:DA:2148:G:O2'	24:DA:2149:G:H5'	2.01	0.60
24:DA:2469:A:H2	24:DA:2481:G:N2	1.93	0.60
24:DA:2656:U:O4	24:DA:2657:A:C5	2.54	0.60
24:DA:2728:U:O2'	24:DA:2729:G:H5'	2.01	0.60
26:DD:72:LYS:HE3	26:DD:75:ILE:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:110:ASP:HB3	31:DK:112:LYS:N	2.16	0.60
31:DK:114:LEU:O	31:DK:115:ALA:CB	2.49	0.60
31:DK:116:LEU:O	31:DK:116:LEU:HG	2.00	0.60
32:DM:16:ILE:O	32:DM:55:VAL:HG22	2.01	0.60
32:DM:17:ASP:O	32:DM:18:ALA:HB3	2.01	0.60
32:DM:101:HIS:C	32:DM:101:HIS:CD2	2.79	0.60
35:DP:63:LYS:HE2	35:DP:65:PHE:CE1	2.37	0.60
42:DT:43:VAL:CG1	42:DT:51:VAL:HG21	2.31	0.60
46:DZ:3:LYS:HD3	46:DZ:43:TYR:CD2	2.35	0.60
1:AA:371:G:O2'	1:AA:372:C:H5'	2.02	0.60
1:AA:532:A:O2'	1:AA:533:A:OP1	2.19	0.60
1:AA:1379:G:H5'	7:AJ:3:ARG:HH21	1.66	0.60
2:AE:187:LEU:HA	2:AE:201:ILE:O	2.01	0.60
3:AF:129:ALA:HB3	3:AF:132:ARG:NE	2.16	0.60
8:AK:17:THR:HB	8:AK:78:GLN:OE1	2.02	0.60
15:AR:23:GLY:O	15:AR:24:SER:O	2.19	0.60
18:AU:82:THR:O	18:AU:84:LYS:HE3	2.01	0.60
24:BA:892:G:H2'	24:BA:893:C:C1'	2.31	0.60
24:BA:1278:A:H2'	24:BA:1279:G:C8	2.36	0.60
24:BA:2015:A:H5'	41:BS:92:ARG:HH21	1.66	0.60
24:BA:2126:A:H5'	24:BA:2127:G:OP1	2.01	0.60
25:BB:48:A:H2'	25:BB:49:C:C6	2.36	0.60
26:BD:200:ASP:O	26:BD:203:ASN:N	2.25	0.60
27:BE:12:THR:O	27:BE:23:VAL:HG22	2.00	0.60
32:BM:120:LEU:HD23	32:BM:120:LEU:C	2.26	0.60
32:BM:129:PRO:O	32:BM:131:GLN:N	2.34	0.60
34:BO:92:GLU:OE1	34:BO:121:LYS:HB3	2.00	0.60
35:BP:77:LYS:HZ2	35:BP:82:ARG:HA	1.62	0.60
37:BQ:23:ARG:HH11	37:BQ:23:ARG:HG2	1.66	0.60
1:CA:191:G:H1'	20:CW:105:SER:HB3	1.82	0.60
2:CE:60:ASP:O	2:CE:64:ARG:HG2	2.01	0.60
4:CG:90:GLY:HA2	4:CG:204:ILE:HD11	1.83	0.60
5:CH:74:GLY:O	5:CH:115:VAL:HA	2.02	0.60
8:CK:39:LEU:O	8:CK:45:ILE:HG12	2.01	0.60
9:CL:96:LEU:HD23	9:CL:102:LEU:HD12	1.84	0.60
17:CT:84:LEU:C	17:CT:86:GLU:H	2.08	0.60
20:CW:104:LEU:HD12	20:CW:105:SER:H	1.66	0.60
24:DA:232:G:H8	24:DA:232:G:OP2	1.84	0.60
24:DA:1038:C:H2'	24:DA:1039:G:O4'	2.01	0.60
24:DA:2761:G:H5'	24:DA:2761:G:C8	2.36	0.60
26:DD:25:THR:HG21	26:DD:81:ALA:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:93:VAL:N	27:DE:95:ILE:HD12	2.17	0.60
28:DF:175:THR:O	28:DF:176:LEU:CB	2.49	0.60
29:DG:180:PHE:C	29:DG:182:LYS:H	2.09	0.60
33:DN:97:ARG:N	33:DN:117:LEU:HD22	2.15	0.60
37:DQ:11:LYS:HB2	37:DQ:91:PRO:HD3	1.84	0.60
39:D1:92:ARG:NH1	39:D1:95:LEU:CD1	2.65	0.60
40:D2:35:LEU:HD23	40:D2:35:LEU:O	2.01	0.60
40:D2:99:ILE:N	40:D2:99:ILE:CD1	2.65	0.60
45:D3:7:LEU:HD22	45:D3:11:ARG:NH1	2.16	0.60
1:AA:191(A):G:O2'	1:AA:191(B):G:H5'	2.02	0.60
1:AA:243:A:H4'	1:AA:244:U:H5"	1.84	0.60
1:AA:1137:C:O2'	1:AA:1138:G:OP2	2.12	0.60
1:AA:1145:C:O2'	1:AA:1146:A:N7	2.33	0.60
2:AE:12:GLU:O	2:AE:15:VAL:HG12	2.02	0.60
2:AE:200:ILE:H	2:AE:200:ILE:HD12	1.66	0.60
3:AF:182:ILE:HG23	3:AF:202:ILE:C	2.26	0.60
3:AF:182:ILE:HA	3:AF:202:ILE:O	2.01	0.60
4:AG:22:LYS:HB2	4:AG:26:CYS:HB2	1.83	0.60
4:AG:75:PHE:CE1	4:AG:93:PHE:CZ	2.87	0.60
5:AH:45:PHE:CE2	5:AH:47:LYS:HD2	2.36	0.60
5:AH:107:ARG:O	5:AH:108:ALA:C	2.44	0.60
6:AI:21:LEU:O	6:AI:25:ILE:HG12	2.02	0.60
9:AL:53:VAL:HG23	9:AL:55:ALA:H	1.66	0.60
9:AL:99:LEU:HB3	9:AL:101:PHE:CE1	2.37	0.60
20:AW:82:SER:O	20:AW:83:ARG:C	2.44	0.60
24:BA:954:G:H4'	35:BP:13:GLN:NE2	2.17	0.60
24:BA:2021:C:OP2	50:B5:15:ARG:NH2	2.35	0.60
26:BD:27:THR:HG21	26:BD:83:GLU:CG	2.23	0.60
40:B2:39:LEU:HD12	40:B2:39:LEU:N	2.17	0.60
44:BV:94:GLU:HA	44:BV:130:PRO:HD3	1.83	0.60
44:BV:121:HIS:HD2	44:BV:170:THR:O	1.85	0.60
46:BZ:41:ARG:HH11	46:BZ:41:ARG:HG3	1.67	0.60
48:BX:23:LEU:H	48:BX:23:LEU:HD12	1.65	0.60
49:B4:12:ALA:HB1	49:B4:24:THR:HB	1.83	0.60
51:B6:41:PRO:O	51:B6:42:TRP:HB3	2.01	0.60
1:CA:383:A:H2'	1:CA:384:G:H5'	1.84	0.60
1:CA:587:G:C2	1:CA:755:G:C6	2.89	0.60
1:CA:825:G:H2'	1:CA:826:C:H6	1.66	0.60
1:CA:978:A:O2'	1:CA:1322:C:N3	2.34	0.60
1:CA:1250:A:H5'	9:CL:67:GLY:HA2	1.83	0.60
6:CI:1:MET:HA	6:CI:67:MET:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:3:GLN:HB3	9:CL:20:ARG:HG2	1.82	0.60
10:CM:89:ASP:C	10:CM:90:LEU:HD12	2.25	0.60
13:CP:40:ASN:HD21	13:CP:42:ALA:HB3	1.64	0.60
16:CS:20:VAL:HG22	16:CS:21:VAL:N	2.16	0.60
18:CU:57:GLY:O	18:CU:58:LEU:C	2.44	0.60
20:CW:47:GLY:C	20:CW:49:ALA:H	2.08	0.60
24:DA:242:G:O2'	24:DA:243:U:OP2	2.18	0.60
24:DA:363(C):G:O2'	24:DA:363(D):G:H5'	2.01	0.60
24:DA:1266:G:O2'	24:DA:1267:U:P	2.59	0.60
24:DA:1286:A:O2'	24:DA:1288:U:OP2	2.15	0.60
24:DA:1332:G:H21	24:DA:1610:A:H8	1.50	0.60
25:DB:29:A:H2'	25:DB:30:C:H6	1.66	0.60
26:DD:166:GLN:CA	26:DD:166:GLN:HE21	2.14	0.60
27:DE:93:VAL:N	27:DE:95:ILE:CD1	2.65	0.60
29:DG:50:ALA:O	29:DG:53:LEU:HB3	2.01	0.60
31:DK:2:LYS:HB3	31:DK:20:ASP:HB3	1.82	0.60
31:DK:67:ARG:NE	31:DK:68:LEU:N	2.50	0.60
36:D0:52:ILE:O	36:D0:55:ALA:HB3	2.01	0.60
39:D1:90:VAL:CG1	39:D1:91:ASP:H	2.00	0.60
1:AA:411:A:C5	1:AA:413:G:H1'	2.37	0.60
1:AA:653:A:C1'	8:AK:56:LYS:HE2	2.31	0.60
1:AA:974:A:OP2	14:AQ:41:ARG:NH1	2.31	0.60
1:AA:1179:A:H5'	9:AL:102:LEU:HD22	1.84	0.60
1:AA:1236:A:O2'	1:AA:1304:G:H4'	2.01	0.60
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.37	0.60
20:AW:100:ILE:C	20:AW:102:GLY:H	2.09	0.60
24:BA:627:A:H4'	24:BA:628:G:OP1	2.00	0.60
24:BA:2014:A:HO2'	50:B5:2:ALA:N	2.00	0.60
24:BA:2752:C:H5'	24:BA:2753:A:OP2	2.02	0.60
27:BE:11:MET:HA	27:BE:24:THR:HA	1.84	0.60
30:BH:19:VAL:HG12	30:BH:19:VAL:O	2.00	0.60
36:B0:33:ARG:HG2	36:B0:115:GLU:OE2	2.01	0.60
39:B1:81:HIS:HD2	39:B1:117:GLN:NE2	1.98	0.60
41:BS:36:LEU:HD13	41:BS:48:ALA:CA	2.29	0.60
43:BU:28:LYS:O	43:BU:38:ILE:HG12	2.01	0.60
44:BV:54:HIS:NE2	44:BV:101:PRO:HB3	2.17	0.60
1:CA:376:G:O2'	1:CA:377:G:H5'	2.01	0.60
1:CA:792:A:C2'	1:CA:794:A:N6	2.29	0.60
1:CA:1152:A:O2'	1:CA:1153:C:H5'	2.02	0.60
1:CA:1301:U:H3'	1:CA:1302:U:H5'	1.83	0.60
2:CE:114:ARG:O	2:CE:117:GLU:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CI:44:GLY:HA2	6:CI:59:TYR:CZ	2.37	0.60
14:CQ:44:LEU:HD12	14:CQ:48:ALA:HB2	1.84	0.60
22:CD:14:A:OP1	22:CD:14:A:O4'	2.20	0.60
24:DA:1358:G:N2	24:DA:1373:A:N7	2.49	0.60
24:DA:1517:G:H2'	24:DA:1518:C:C6	2.36	0.60
24:DA:1535:U:H3'	24:DA:1536:A:C5'	2.24	0.60
24:DA:1657:C:H2'	24:DA:1658:C:H6	1.65	0.60
24:DA:1678:G:N2	24:DA:1989:G:H22	2.00	0.60
24:DA:2035:G:H4'	24:DA:2036:C:OP2	2.01	0.60
24:DA:2267:A:H5"	24:DA:2268:A:H5'	1.82	0.60
24:DA:2415:G:O3'	34:DO:66:GLY:HA3	2.02	0.60
24:DA:2740:A:C6	24:DA:2764:A:C8	2.89	0.60
26:DD:35:LYS:HD3	26:DD:63:ARG:CB	2.32	0.60
29:DG:9:ARG:HG2	29:DG:13:GLU:OE1	2.00	0.60
34:DO:79:ARG:HD3	34:DO:110:TYR:HE1	1.67	0.60
34:DO:121:LYS:HG3	34:DO:122:PRO:HD2	1.84	0.60
45:D3:7:LEU:HD23	45:D3:11:ARG:HG2	1.84	0.60
51:D6:27:LYS:HB2	51:D6:27:LYS:HZ2	1.65	0.60
51:D6:41:PRO:HG2	51:D6:45:LYS:N	2.10	0.60
1:AA:582:U:OP1	15:AR:68:ARG:NH2	2.28	0.60
1:AA:936:C:H2'	1:AA:937:A:H8	1.65	0.60
1:AA:1329:A:P	13:AP:28:ALA:HB3	2.41	0.60
4:AG:19:LEU:O	4:AG:21:LEU:N	2.35	0.60
8:AK:77:GLU:HG2	8:AK:78:GLN:N	2.16	0.60
24:BA:99:U:O2	24:BA:99:U:C2'	2.50	0.60
24:BA:648:G:O2'	24:BA:649:G:H5'	2.01	0.60
24:BA:711:G:O2'	24:BA:712:G:H5'	2.02	0.60
24:BA:788:A:O2'	24:BA:789:A:OP2	2.19	0.60
24:BA:819:A:OP2	24:BA:1187:G:N2	2.35	0.60
24:BA:1359:A:O2'	24:BA:1360:A:P	2.59	0.60
24:BA:2282:G:O2'	24:BA:2283:C:OP2	2.19	0.60
24:BA:2331:G:O3'	45:B3:43:THR:HG22	2.02	0.60
24:BA:2492:U:O2'	24:BA:2493:U:H5'	2.01	0.60
27:BE:179:GLU:HB3	27:BE:181:LEU:CD2	2.32	0.60
30:BH:97:ARG:CB	30:BH:104:GLU:HB2	2.21	0.60
30:BH:109:PHE:O	30:BH:110:SER:HB3	2.01	0.60
34:BO:144:GLU:O	34:BO:144:GLU:CD	2.45	0.60
35:BP:77:LYS:HZ1	35:BP:82:ARG:HB2	1.64	0.60
36:B0:49:ASP:OD1	36:B0:95:THR:HG22	2.02	0.60
40:B2:87:HIS:O	40:B2:87:HIS:ND1	2.35	0.60
43:BU:94:LYS:HZ2	43:BU:101:LYS:HZ3	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:118:GLN:NE2	44:BV:174:VAL:HA	2.16	0.60
1:CA:838:G:C6	1:CA:842:C:H1'	2.37	0.60
1:CA:1067:A:H1'	1:CA:1068:G:O4'	2.02	0.60
3:CF:88:ARG:O	3:CF:99:VAL:HG21	2.01	0.60
3:CF:127:ARG:HH11	3:CF:127:ARG:CG	2.15	0.60
5:CH:33:VAL:HG11	5:CH:109:ILE:HA	1.83	0.60
9:CL:9:ARG:CB	9:CL:14:VAL:HG22	2.32	0.60
24:DA:1085:A:H3'	24:DA:1086:A:N7	2.16	0.60
24:DA:1371:G:O2'	24:DA:1372:U:H5	1.83	0.60
24:DA:2392:A:H2	24:DA:2424:C:N4	1.99	0.60
24:DA:2779:U:O2'	24:DA:2781:A:N7	2.33	0.60
26:DD:21:PHE:HB3	26:DD:24:ILE:HG13	1.83	0.60
34:DO:88:LEU:C	34:DO:90:ARG:N	2.60	0.60
38:DR:107:ASP:O	38:DR:110:ILE:HG22	2.02	0.60
44:DV:48:PHE:HA	44:DV:51:ALA:HB3	1.84	0.60
53:D8:22:VAL:CG2	53:D8:53:PRO:HB2	2.32	0.60
53:D8:53:PRO:CD	53:D8:54:GLU:H	2.15	0.60
53:D8:56:GLU:O	53:D8:59:LYS:N	2.35	0.60
1:AA:197:A:N6	1:AA:221:C:H5'	2.17	0.59
1:AA:278:G:O4'	1:AA:282:A:H1'	2.02	0.59
1:AA:429:U:H1'	1:AA:430:A:H5"	1.84	0.59
1:AA:792:A:C2'	1:AA:794:A:N7	2.65	0.59
1:AA:1033:G:H2'	1:AA:1034:G:H8	1.66	0.59
1:AA:1275:A:H2'	1:AA:1276:G:O4'	2.02	0.59
2:AE:5:ILE:HG13	2:AE:6:THR:H	1.67	0.59
2:AE:21:ARG:HG2	2:AE:39:ILE:HG13	1.84	0.59
6:AI:44:GLY:HA2	6:AI:59:TYR:CE1	2.36	0.59
8:AK:89:PRO:HA	8:AK:92:ARG:NH1	2.16	0.59
9:AL:6:GLY:HA3	9:AL:17:VAL:H	1.66	0.59
11:AN:59:TYR:O	11:AN:62:GLN:HB3	2.01	0.59
13:AP:98:VAL:O	13:AP:100:GLY:N	2.35	0.59
16:AS:63:GLY:O	16:AS:64:ALA:CB	2.50	0.59
22:AC:19:G:N3	22:AC:57:A:C2	2.70	0.59
24:BA:345:A:O2'	24:BA:346:A:C8	2.55	0.59
24:BA:686:G:O6	52:B7:12:ARG:HG3	2.02	0.59
24:BA:922:U:H2'	24:BA:923:C:H6	1.67	0.59
24:BA:1578:U:C2'	24:BA:1579:A:H5"	2.31	0.59
24:BA:1668:A:H2'	24:BA:1674:G:N7	2.17	0.59
24:BA:2078:C:H1'	24:BA:2434:A:N3	2.17	0.59
24:BA:2298:A:C2	24:BA:2299:G:H1'	2.37	0.59
24:BA:2688:U:H1'	24:BA:2721:A:N6	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:30:C:H4'	25:BB:58:A:C2	2.36	0.59
28:BF:27:GLU:C	28:BF:28:ILE:HG13	2.27	0.59
30:BH:150:ALA:O	30:BH:152:ARG:N	2.35	0.59
39:B1:108:GLU:C	39:B1:110:VAL:N	2.59	0.59
44:BV:137:ILE:HG21	44:BV:157:LEU:HD11	1.84	0.59
46:BZ:88:LYS:O	46:BZ:91:LYS:HB2	2.02	0.59
49:B4:37:SER:C	49:B4:39:CYS:N	2.59	0.59
50:B5:40:LYS:HE3	50:B5:46:CYS:H	1.64	0.59
1:CA:644:G:H4'	8:CK:92:ARG:HH21	1.66	0.59
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.82	0.59
1:CA:1357:A:H8	1:CA:1357:A:O5'	1.85	0.59
2:CE:142:LEU:HD23	2:CE:142:LEU:C	2.27	0.59
5:CH:72:GLN:O	5:CH:73:ASN:HB3	2.02	0.59
11:CN:41:THR:HG21	11:CN:71:LYS:HB2	1.83	0.59
13:CP:3:ARG:HA	13:CP:9:ILE:CG2	2.21	0.59
17:CT:76:LEU:HD12	17:CT:77:VAL:H	1.66	0.59
24:DA:390:A:H4'	24:DA:391:G:O5'	2.02	0.59
24:DA:481:G:H1'	24:DA:506:G:N2	2.16	0.59
24:DA:1474:C:C2'	24:DA:1475:G:H5"	2.31	0.59
24:DA:1815:A:H4'	24:DA:1816:G:O5'	2.01	0.59
24:DA:2163:C:H2'	24:DA:2164:C:H6	1.66	0.59
24:DA:2771:C:H2'	24:DA:2772:C:C6	2.37	0.59
26:DD:35:LYS:CG	26:DD:64:ILE:N	2.56	0.59
27:DE:68:ALA:O	27:DE:69:LYS:HG3	2.02	0.59
28:DF:63:LYS:HE2	28:DF:67:GLN:HB3	1.83	0.59
28:DF:123:LEU:HD12	28:DF:124:LEU:N	2.17	0.59
29:DG:111:LEU:HB2	29:DG:112:PRO:HD3	1.82	0.59
31:DK:29:TYR:O	31:DK:33:ARG:HB2	2.02	0.59
31:DK:71:ILE:HG12	31:DK:71:ILE:O	2.00	0.59
39:D1:76:TYR:CZ	39:D1:80:ILE:HG13	2.37	0.59
43:DU:4:LYS:O	43:DU:5:MET:HB2	2.01	0.59
44:DV:154:ASP:O	44:DV:155:LEU:HD22	2.00	0.59
1:AA:310:G:H4'	16:AS:31:LYS:HD2	1.84	0.59
1:AA:828:A:H2'	1:AA:829:G:O4'	2.02	0.59
1:AA:972:C:H4'	10:AM:57:LYS:HG3	1.84	0.59
1:AA:973:G:H1'	10:AM:55:LYS:HG2	1.82	0.59
3:AF:76:VAL:N	3:AF:83:ARG:HG2	2.16	0.59
4:AG:165:MET:HE1	4:AG:168:ARG:HB2	1.84	0.59
9:AL:4:TYR:HB2	9:AL:18:PHE:O	2.02	0.59
9:AL:56:LEU:HD23	9:AL:56:LEU:H	1.66	0.59
12:AO:22:SER:C	12:AO:24:VAL:N	2.58	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:118:ALA:CA	22:AC:29:G:H5'	2.32	0.59
19:AV:25:LYS:HD2	19:AV:25:LYS:C	2.27	0.59
24:BA:33:U:O4	24:BA:446:G:O2'	2.16	0.59
24:BA:623:G:H2'	24:BA:624:C:C6	2.37	0.59
24:BA:651:G:H5"	53:B8:18:ALA:HB3	1.84	0.59
24:BA:863:A:H2'	24:BA:864:G:C8	2.37	0.59
24:BA:1027:A:H8	24:BA:1027:A:OP2	1.85	0.59
24:BA:1378:A:H4'	24:BA:1379:A:OP1	2.01	0.59
24:BA:1784:A:C4'	24:BA:1785:A:O5'	2.39	0.59
24:BA:2542:A:H5'	24:BA:2543:G:OP1	2.01	0.59
24:BA:2748:A:H3'	24:BA:2748:A:N3	2.17	0.59
24:BA:2790:A:H2'	24:BA:2791:C:C5'	2.24	0.59
24:BA:2839:G:H2'	24:BA:2840:C:H6	1.67	0.59
24:BA:2873:A:H8	36:B0:6:SER:N	1.81	0.59
27:BE:27:LEU:HA	27:BE:180:ASN:O	2.01	0.59
29:BG:142:PRO:C	49:B4:31:ILE:HD13	2.27	0.59
30:BH:26:VAL:C	30:BH:31:GLY:HA2	2.27	0.59
34:BO:95:VAL:HB	34:BO:100:LEU:HD21	1.83	0.59
42:BT:18:TYR:HD1	42:BT:21:PHE:HE2	1.48	0.59
44:BV:103:ARG:CG	44:BV:104:PHE:N	2.54	0.59
44:BV:120:ILE:HG23	44:BV:171:ILE:CG1	2.32	0.59
44:BV:124:ILE:HG13	44:BV:126:VAL:HG13	1.85	0.59
51:B6:47:THR:CG2	51:B6:48:VAL:H	2.16	0.59
1:CA:742:G:H5"	15:CR:58:MET:HE1	1.84	0.59
1:CA:1177:G:H2'	1:CA:1178:G:N3	2.17	0.59
7:CJ:23:VAL:HG12	7:CJ:27:ILE:CD1	2.32	0.59
10:CM:32:ALA:H	10:CM:78:ASN:HD21	1.49	0.59
12:CO:54:LYS:CD	12:CO:54:LYS:N	2.64	0.59
16:CS:51:VAL:CG1	16:CS:52:ASP:N	2.65	0.59
18:CU:31:LEU:HD23	18:CU:31:LEU:H	1.67	0.59
19:CV:25:LYS:O	19:CV:26:GLY:O	2.20	0.59
24:DA:1019:U:H3	24:DA:1142(A):A:N6	2.00	0.59
24:DA:1175:U:C4'	24:DA:1176:G:OP1	2.43	0.59
24:DA:1372:U:H2'	24:DA:1373:A:C5'	2.32	0.59
24:DA:2684:U:O2'	33:DN:68:GLU:HG3	2.02	0.59
25:DB:12:C:H4'	25:DB:13:A:OP1	2.01	0.59
30:DH:30:LYS:CD	30:DH:81:GLU:H	2.15	0.59
31:DK:38:LEU:HD12	31:DK:38:LEU:N	2.11	0.59
31:DK:41:GLU:CD	31:DK:42:SER:N	2.59	0.59
32:DM:1:MET:HE1	39:D1:95:LEU:CD2	2.18	0.59
39:D1:58:ARG:HA	39:D1:61:TRP:CE3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:D1:92:ARG:HD3	39:D1:94:ASN:HB3	1.82	0.59
40:D2:35:LEU:HB2	40:D2:37:VAL:HG23	1.85	0.59
44:DV:22:GLY:C	44:DV:23:LYS:HD3	2.27	0.59
48:DX:29:ARG:HH11	48:DX:29:ARG:CB	2.13	0.59
1:AA:697:U:H2'	1:AA:698:G:H5'	1.84	0.59
1:AA:818:G:C3'	1:AA:819:A:C5'	2.80	0.59
1:AA:1155:G:C2'	1:AA:1156:G:H5'	2.32	0.59
1:AA:1235:U:O2'	1:AA:1305:G:O5'	2.20	0.59
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.68	0.59
6:AI:33:TYR:OH	6:AI:78:GLU:HG3	2.02	0.59
9:AL:66:ARG:NH1	9:AL:66:ARG:HB3	2.16	0.59
12:AO:19:ARG:HG2	12:AO:20:LYS:H	1.66	0.59
14:AQ:23:ARG:NH1	14:AQ:30:ALA:HB2	2.16	0.59
22:AD:58:A:H1'	22:AD:60:U:C5	2.38	0.59
24:BA:755:C:H2'	24:BA:756:C:C6	2.37	0.59
24:BA:864:G:H1'	24:BA:914:C:N4	2.18	0.59
24:BA:2287:A:N6	24:BA:2344:U:C2	2.69	0.59
27:BE:8:LYS:HG2	27:BE:192:ASN:HD22	1.67	0.59
27:BE:61:ARG:N	27:BE:62:PRO:HD2	2.15	0.59
34:BO:147:LEU:HD13	34:BO:147:LEU:H	1.67	0.59
35:BP:28:ALA:HB2	35:BP:67:ARG:NH1	2.17	0.59
43:BU:19:LYS:HE3	43:BU:71:LYS:NZ	2.17	0.59
51:B6:23:THR:HG23	51:B6:24:GLU:N	2.16	0.59
1:CA:815:A:H4'	1:CA:816:A:OP2	2.03	0.59
1:CA:1024:G:H2'	1:CA:1025:U:H5"	1.84	0.59
2:CE:124:SER:HB2	2:CE:125:PRO:HD2	1.85	0.59
6:CI:26:ILE:O	6:CI:30:LEU:HG	2.02	0.59
17:CT:92:ARG:HH11	17:CT:92:ARG:HG3	1.68	0.59
20:CW:58:LYS:O	20:CW:62:LEU:HD12	2.02	0.59
20:CW:96:GLY:O	20:CW:97:ALA:HB3	2.02	0.59
24:DA:74:A:O2'	24:DA:75:G:OP2	2.19	0.59
24:DA:1021:A:H8	24:DA:1022:G:H5"	1.66	0.59
24:DA:1079:C:H5'	24:DA:1079:C:H6	1.66	0.59
26:DD:172:TYR:CD1	26:DD:186:HIS:HA	2.37	0.59
27:DE:51:PHE:HD1	27:DE:52:LEU:HG	1.68	0.59
30:DH:4:ILE:HD13	30:DH:4:ILE:N	2.18	0.59
31:DK:115:ALA:CB	31:DK:128:LEU:HD11	2.29	0.59
32:DM:18:ALA:HB3	32:DM:55:VAL:O	2.03	0.59
32:DM:42:TRP:O	39:D1:64:ARG:NH2	2.35	0.59
44:DV:20:ARG:O	44:DV:20:ARG:HD3	2.02	0.59
51:D6:44:ARG:O	51:D6:45:LYS:HB2	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:476:G:O2'	1:AA:477:G:H5'	2.01	0.59
1:AA:1321:C:N4	1:AA:1322:C:N4	2.37	0.59
1:AA:1364:U:H6	21:AX:14:TRP:HH2	1.51	0.59
17:AT:75:ARG:NH1	17:AT:77:VAL:HA	2.18	0.59
18:AU:22:VAL:O	18:AU:24:ALA:N	2.35	0.59
24:BA:601:C:H4'	28:BF:104:LYS:NZ	2.17	0.59
24:BA:1469:A:H2'	24:BA:1470:G:C8	2.37	0.59
24:BA:1970:A:H5'	24:BA:1971:A:OP1	2.01	0.59
24:BA:2240:C:O2'	24:BA:2241:A:H5'	2.02	0.59
24:BA:2402:C:H6	24:BA:2402:C:H5"	1.68	0.59
24:BA:2590:A:O2'	24:BA:2591:C:H5'	2.03	0.59
24:BA:2628:C:H1'	24:BA:2781:A:H2'	1.83	0.59
26:BD:134:ARG:HE	26:BD:135:PHE:HE2	1.50	0.59
28:BF:68:LYS:O	28:BF:69:HIS:HB2	2.03	0.59
30:BH:117:PRO:HB3	30:BH:123:PHE:CE1	2.38	0.59
31:BK:79:ILE:CA	31:BK:142:VAL:HG21	2.30	0.59
37:BQ:60:GLY:O	37:BQ:61:ASN:CB	2.50	0.59
43:BU:50:ARG:HB3	43:BU:53:PRO:HG3	1.82	0.59
44:BV:74:VAL:HG13	44:BV:86:VAL:CG2	2.30	0.59
1:CA:128:G:O2'	17:CT:3:LYS:NZ	2.36	0.59
1:CA:132:C:O2'	1:CA:133:U:H5'	2.02	0.59
1:CA:980:C:H5'	1:CA:981:U:OP2	2.02	0.59
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.01	0.59
2:CE:188:ALA:HB3	2:CE:200:ILE:HG23	1.84	0.59
4:CG:76:ARG:HD2	4:CG:207:TYR:HE2	1.66	0.59
7:CJ:85:TYR:HE1	7:CJ:154:TYR:CE1	2.21	0.59
8:CK:12:ARG:HH12	8:CK:27:PRO:HD2	1.67	0.59
17:CT:84:LEU:C	17:CT:86:GLU:N	2.60	0.59
22:CD:18:G:H4'	22:CD:60:U:O2	2.01	0.59
24:DA:275:G:H4'	24:DA:276:A:OP1	2.02	0.59
24:DA:1142(A):A:C5	24:DA:1144:G:N7	2.71	0.59
24:DA:1181:C:O2'	24:DA:1182:A:H5'	2.01	0.59
26:DD:174:ILE:HD12	26:DD:174:ILE:N	2.16	0.59
30:DH:55:PRO:HG2	30:DH:61:HIS:CE1	2.37	0.59
34:DO:55:ARG:HD2	34:DO:56:SER:O	2.01	0.59
34:DO:95:VAL:HG13	34:DO:100:LEU:HD21	1.83	0.59
36:D0:92:GLY:H	36:D0:94:TYR:HE2	1.49	0.59
38:DR:57:PHE:CD2	38:DR:58:ASN:N	2.66	0.59
38:DR:102:ILE:HB	38:DR:110:ILE:HD13	1.84	0.59
39:D1:92:ARG:HH11	39:D1:95:LEU:HD12	1.67	0.59
45:D3:51:VAL:HG23	45:D3:81:VAL:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:D7:31:LEU:O	52:D7:32:LYS:C	2.43	0.59
1:AA:388:G:O2'	1:AA:389:A:P	2.60	0.59
1:AA:1194:U:H2'	1:AA:1195:C:H6	1.62	0.59
1:AA:1330:U:H3'	1:AA:1331:G:O4'	2.02	0.59
1:AA:1541:U:H4'	18:AU:18:ARG:CZ	2.32	0.59
2:AE:126:GLU:O	2:AE:128:GLU:N	2.36	0.59
13:AP:44:ARG:HG3	13:AP:48:LEU:CD2	2.33	0.59
20:AW:37:SER:O	20:AW:41:ILE:HG12	2.03	0.59
22:AD:35:A:H2'	22:AD:36:U:C6	2.38	0.59
24:BA:38:A:H2'	24:BA:39:C:C6	2.38	0.59
24:BA:52:A:O2'	24:BA:53:A:H5'	2.02	0.59
24:BA:323:G:O2'	24:BA:1205:U:C2	2.56	0.59
24:BA:2322:A:H3'	24:BA:2323:G:H8	1.67	0.59
26:BD:130:ALA:C	26:BD:131:LEU:HD12	2.27	0.59
27:BE:128:SER:OG	27:BE:129:HIS:N	2.36	0.59
30:BH:123:PHE:HA	30:BH:133:VAL:CG2	2.26	0.59
31:BK:75:LEU:HD22	31:BK:77:LEU:CD2	2.33	0.59
49:B4:46:GLN:CG	49:B4:47:GLN:N	2.64	0.59
1:CA:1139:G:N2	1:CA:1143:G:O6	2.36	0.59
1:CA:1151:A:H2'	1:CA:1152:A:H8	1.65	0.59
1:CA:1365:G:H2'	1:CA:1366:C:C6	2.37	0.59
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.37	0.59
3:CF:60:ALA:O	3:CF:61:ALA:CB	2.50	0.59
3:CF:107:GLN:CD	3:CF:107:GLN:N	2.61	0.59
8:CK:41:ARG:HH11	8:CK:41:ARG:HB3	1.66	0.59
9:CL:66:ARG:HH11	9:CL:66:ARG:HG2	1.68	0.59
10:CM:98:ILE:HD12	10:CM:98:ILE:N	2.15	0.59
20:CW:84:LEU:O	20:CW:88:VAL:HG23	2.01	0.59
24:DA:229:A:HO2'	24:DA:230:U:P	2.25	0.59
24:DA:571:A:H2'	40:D2:78:LYS:NZ	2.17	0.59
24:DA:975:G:H1'	24:DA:990:A:C2	2.38	0.59
24:DA:1019:U:O2'	24:DA:1021:A:H2	1.86	0.59
24:DA:1021:A:H2'	24:DA:1023:U:H5'	1.84	0.59
24:DA:1021:A:OP2	32:DM:65:LYS:NZ	2.34	0.59
24:DA:1057:A:N6	24:DA:1086:A:N3	2.51	0.59
24:DA:1483:G:H2'	24:DA:1484:G:C8	2.37	0.59
24:DA:2250:G:C2	35:DP:82:ARG:HB3	2.37	0.59
24:DA:2832:U:H4'	24:DA:2833:G:H5"	1.84	0.59
24:DA:2839:G:H2'	24:DA:2840:C:C6	2.37	0.59
24:DA:2847:U:OP1	38:DR:98:LYS:NZ	2.34	0.59
26:DD:177:LEU:HD11	26:DD:183:ARG:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:11:VAL:HG11	28:DF:18:ARG:HE	1.67	0.59
30:DH:159:GLU:O	30:DH:160:LYS:HG2	2.03	0.59
32:DM:58:ASP:N	32:DM:60:ILE:HD11	2.16	0.59
32:DM:78:TYR:N	32:DM:78:TYR:CD1	2.70	0.59
36:D0:72:ASP:O	36:D0:76:VAL:HB	2.03	0.59
37:DQ:88:ASP:O	37:DQ:89:ARG:CB	2.49	0.59
43:DU:95:LYS:HD3	43:DU:95:LYS:H	1.67	0.59
43:DU:96:ILE:CD1	43:DU:98:VAL:HG12	2.32	0.59
45:D3:55:ARG:HG3	45:D3:55:ARG:HH11	1.67	0.59
51:D6:20:ASN:CG	51:D6:21:TYR:H	2.09	0.59
51:D6:25:LYS:HD2	53:D8:34:TRP:CZ2	2.36	0.59
1:AA:115:G:H1’	1:AA:116:A:N7	2.18	0.59
1:AA:199:G:O2’	1:AA:200:G:H5’	2.02	0.59
1:AA:366:C:O2’	1:AA:394:G:N2	2.35	0.59
1:AA:713:G:H21	1:AA:777:A:H4’	1.67	0.59
1:AA:792:A:O2’	1:AA:793:U:P	2.60	0.59
1:AA:1041:A:C3’	1:AA:1042:G:H5”	2.32	0.59
1:AA:1347:G:N2	1:AA:1374:A:OP2	2.35	0.59
8:AK:33:GLU:O	8:AK:36:LEU:HB2	2.03	0.59
9:AL:112:LYS:HG2	9:AL:118:LYS:HA	1.85	0.59
15:AR:3:ILE:H	15:AR:3:ILE:HD13	1.67	0.59
20:AW:67:ALA:HA	20:AW:73:HIS:HA	1.84	0.59
24:BA:13:A:H4’	24:BA:14:A:OP1	2.01	0.59
24:BA:99:U:H1’	24:BA:102:G:C2	2.37	0.59
24:BA:532:A:O2’	24:BA:533:G:OP2	2.21	0.59
24:BA:782:A:H4’	24:BA:783:A:O5’	2.00	0.59
24:BA:1027:A:N6	24:BA:1126:A:H1’	2.18	0.59
24:BA:1101:U:H2’	24:BA:1102:C:H6	1.68	0.59
24:BA:1352:U:O2’	24:BA:1353:A:H5’	2.02	0.59
24:BA:2394:C:OP1	34:BO:63:PRO:CD	2.50	0.59
24:BA:2469:A:H5’	24:BA:2470:G:C8	2.37	0.59
24:BA:2818:G:O2’	24:BA:2819:G:H5’	2.02	0.59
29:BG:32:PRO:HB3	29:BG:172:LEU:HD22	1.84	0.59
29:BG:53:LEU:HG	29:BG:90:LEU:HD21	1.84	0.59
34:BO:90:ARG:CG	34:BO:91:PHE:HD1	2.16	0.59
39:B1:108:GLU:O	39:B1:110:VAL:N	2.36	0.59
45:B3:72:ARG:NH2	45:B3:75:LEU:HD12	2.18	0.59
49:B4:46:GLN:HG2	49:B4:47:GLN:N	2.17	0.59
53:B8:56:GLU:HA	53:B8:59:LYS:HE3	1.85	0.59
1:CA:1027:C:H2’	1:CA:1028:C:C6	2.37	0.59
1:CA:1158:C:O2	1:CA:1158:C:C2’	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:66:VAL:O	7:CJ:70:LYS:HG3	2.02	0.59
8:CK:86:ILE:HG22	8:CK:93:VAL:HG21	1.84	0.59
9:CL:9:ARG:HB3	9:CL:14:VAL:HG13	1.84	0.59
14:CQ:15:LYS:HD2	14:CQ:16:PHE:CZ	2.37	0.59
16:CS:43:LYS:HA	16:CS:48:TRP:HB2	1.84	0.59
20:CW:101:GLY:O	20:CW:103:GLY:N	2.34	0.59
24:DA:951:C:O2'	24:DA:952:G:H5'	2.03	0.59
24:DA:1141:U:OP2	32:DM:63:THR:HG21	2.03	0.59
24:DA:1142(A):A:O2'	24:DA:1143:A:O5'	2.21	0.59
24:DA:1385:G:H5'	24:DA:1386:C:OP1	2.02	0.59
24:DA:2713:A:OP1	36:D0:14:SER:OG	2.20	0.59
27:DE:26:ILE:HD13	27:DE:26:ILE:C	2.26	0.59
27:DE:116:VAL:O	27:DE:117:MET:CB	2.49	0.59
29:DG:16:ARG:NH2	29:DG:31:VAL:HG11	2.17	0.59
30:DH:82:GLY:O	30:DH:135:GLY:O	2.20	0.59
31:DK:110:ASP:CB	31:DK:111:PRO:C	2.76	0.59
32:DM:6:PRO:HG3	32:DM:41:ASP:HB2	1.83	0.59
40:D2:18:LEU:HB3	40:D2:96:ILE:HG12	1.84	0.59
40:D2:66:ARG:HH12	40:D2:88:ARG:HH11	1.49	0.59
46:DZ:53:VAL:O	46:DZ:54:ALA:C	2.45	0.59
49:D4:22:ILE:HG22	49:D4:23:GLU:N	2.18	0.59
49:D4:48:ARG:NH1	49:D4:52:THR:H	2.01	0.59
50:D5:52:TYR:O	50:D5:53:ALA:HB3	2.01	0.59
1:AA:197:A:O2'	1:AA:198:G:P	2.60	0.59
1:AA:368:U:H5'	1:AA:369:C:H5'	1.84	0.59
1:AA:513:C:H2'	1:AA:514:C:H6	1.67	0.59
1:AA:1240:U:H5"	1:AA:1241:G:C8	2.37	0.59
2:AE:10:LEU:HD13	2:AE:10:LEU:O	2.02	0.59
8:AK:26:VAL:CG1	8:AK:59:LEU:HB2	2.33	0.59
8:AK:28:ALA:HB2	8:AK:57:PRO:HB2	1.85	0.59
8:AK:110:ALA:HB3	8:AK:121:ASP:HB3	1.85	0.59
21:AX:9:ARG:O	21:AX:13:ILE:HG13	2.01	0.59
24:BA:260:G:H1'	24:BA:621:A:C8	2.38	0.59
24:BA:448:U:O2'	28:BF:84:VAL:HG13	2.02	0.59
24:BA:846:C:C4	24:BA:930:U:C5	2.90	0.59
24:BA:1085:A:H2'	24:BA:1086:A:H8	1.63	0.59
24:BA:2305:A:H3'	24:BA:2306:C:H5"	1.84	0.59
27:BE:108:SER:O	27:BE:162:ALA:HA	2.01	0.59
30:BH:19:VAL:O	30:BH:21:PRO:HD3	2.02	0.59
33:BN:87:ILE:CG2	33:BN:91:LEU:HA	2.33	0.59
35:BP:42:ILE:HD13	35:BP:97:VAL:CG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:46:LYS:O	43:BU:60:PHE:HA	2.03	0.59
53:B8:25:MET:HE1	53:B8:47:LYS:HE2	1.84	0.59
53:B8:60:LEU:O	53:B8:63:PRO:HD2	2.03	0.59
1:CA:57:G:H2'	1:CA:58:C:C6	2.37	0.59
1:CA:719:C:O2'	18:CU:49:LYS:HB3	2.03	0.59
1:CA:1002:G:C4	1:CA:1003:G:N7	2.71	0.59
4:CG:22:LYS:O	4:CG:113:SER:HB3	2.03	0.59
4:CG:173:TRP:O	4:CG:186:LEU:HB2	2.02	0.59
15:CR:5:LYS:O	15:CR:8:LYS:HG2	2.02	0.59
19:CV:40:ILE:HD11	19:CV:62:ILE:HG21	1.85	0.59
20:CW:104:LEU:HD12	20:CW:105:SER:N	2.18	0.59
24:DA:943:U:OP2	34:DO:36:LYS:NZ	2.36	0.59
24:DA:1180:C:C2'	24:DA:1181:C:C5'	2.81	0.59
24:DA:1464:C:HO2'	24:DA:1528:A:H8	1.50	0.59
24:DA:2308:G:O2'	24:DA:2309:A:OP1	2.21	0.59
30:DH:86:GLU:O	30:DH:131:VAL:O	2.20	0.59
30:DH:124:GLU:HB3	30:DH:132:ARG:HG3	1.85	0.59
38:DR:6:LEU:O	38:DR:7:ILE:C	2.44	0.59
40:D2:15:GLU:HG3	40:D2:16:PRO:HD2	1.83	0.59
41:DS:20:VAL:C	41:DS:22:ASP:H	2.10	0.59
42:DT:49:VAL:CG1	42:DT:83:VAL:HG13	2.32	0.59
1:AA:502:G:H2'	1:AA:503:C:O4'	2.03	0.59
1:AA:1503:A:N1	23:A1:12:A:N1	2.50	0.59
9:AL:40:LEU:HD22	9:AL:43:ALA:H	1.66	0.59
9:AL:51:ARG:HH11	9:AL:51:ARG:HG3	1.68	0.59
13:AP:88:ARG:HG3	13:AP:98:VAL:HG11	1.85	0.59
24:BA:2747:G:O6	24:BA:2755:C:H5"	2.03	0.59
24:BA:2753:A:H2'	24:BA:2754:U:C5'	2.23	0.59
24:BA:2831:G:O4'	24:BA:2883:A:C2	2.56	0.59
25:BB:75:G:H5'	25:BB:75:G:C8	2.37	0.59
27:BE:14:ILE:HD11	27:BE:173:VAL:CG1	2.30	0.59
30:BH:54:ARG:HD2	30:BH:65:HIS:CG	2.37	0.59
34:BO:97:PRO:C	34:BO:99:LEU:H	2.09	0.59
35:BP:16:ARG:HH11	35:BP:16:ARG:HB3	1.67	0.59
40:B2:70:ILE:O	40:B2:72:VAL:HG23	2.03	0.59
40:B2:80:GLN:HE21	40:B2:80:GLN:HA	1.66	0.59
43:BU:95:LYS:HZ3	43:BU:100:ALA:HA	1.67	0.59
53:B8:33:ASN:N	53:B8:36:LYS:HE3	2.10	0.59
1:CA:1129:C:C5'	1:CA:1130:A:H5'	2.32	0.59
8:CK:41:ARG:HH11	8:CK:41:ARG:CG	2.16	0.59
10:CM:13:HIS:HB3	10:CM:68:HIS:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CO:70:ILE:HD13	12:CO:77:LEU:HD12	1.83	0.59
14:CQ:23:ARG:CZ	14:CQ:30:ALA:HB2	2.33	0.59
24:DA:71:A:H2	42:DT:31:HIS:HE1	1.49	0.59
24:DA:1142(A):A:C5	24:DA:1144:G:C5	2.91	0.59
24:DA:1579:A:H2'	24:DA:1580:A:O4'	2.03	0.59
24:DA:1929:G:H4'	24:DA:1930:G:OP1	2.03	0.59
24:DA:2507:C:H6	24:DA:2507:C:C5'	2.08	0.59
24:DA:2742:C:O2'	24:DA:2743:C:H5'	2.02	0.59
26:DD:27:THR:CG2	26:DD:83:GLU:HB3	2.33	0.59
29:DG:35:GLU:CD	29:DG:35:GLU:C	2.71	0.59
34:DO:127:ALA:O	34:DO:147:LEU:HD23	2.02	0.59
35:DP:81:VAL:HG23	35:DP:82:ARG:H	1.67	0.59
38:DR:66:VAL:HG12	38:DR:67:SER:H	1.67	0.59
52:D7:18:PHE:CD2	52:D7:18:PHE:C	2.81	0.59
1:AA:189:U:H3	17:AT:72:ARG:HH12	1.47	0.59
1:AA:1379:G:H5"	7:AJ:3:ARG:NE	2.14	0.59
3:AF:157:ILE:C	3:AF:159:GLY:N	2.61	0.59
7:AJ:79:ARG:HG2	7:AJ:80:VAL:H	1.66	0.59
8:AK:1:MET:HE2	8:AK:2:LEU:N	2.17	0.59
11:AN:96:ARG:HA	11:AN:99:GLN:CG	2.32	0.59
17:AT:64:PRO:HA	17:AT:70:ARG:HG3	1.84	0.59
19:AV:11:VAL:HG11	19:AV:41:VAL:HG12	1.83	0.59
22:AD:19:G:O6	24:BA:2112:G:H1'	2.03	0.59
24:BA:861:A:N3	25:BB:79:C:O2'	2.35	0.59
24:BA:882:G:H2'	24:BA:883:G:O4'	2.03	0.59
24:BA:1055:G:H2'	24:BA:1056:G:H5'	1.85	0.59
24:BA:1467:C:C5	24:BA:1546:C:H2'	2.38	0.59
24:BA:2126:A:H1'	24:BA:2127:G:C8	2.37	0.59
28:BF:165:ARG:HB3	28:BF:165:ARG:NH1	2.14	0.59
38:BR:3:ARG:HG2	38:BR:6:LEU:CB	2.31	0.59
39:B1:58:ARG:O	39:B1:62:ILE:HD12	2.01	0.59
41:BS:57:ASN:O	41:BS:61:ASN:N	2.34	0.59
44:BV:156:LYS:O	44:BV:157:LEU:CB	2.49	0.59
45:B3:48:GLY:O	45:B3:49:LYS:O	2.21	0.59
49:B4:15:ILE:HD12	49:B4:15:ILE:N	2.18	0.59
1:CA:397:A:N6	1:CA:548:G:C5	2.71	0.59
1:CA:564:C:H5'	17:CT:32:TYR:CE2	2.38	0.59
1:CA:630:G:C2'	1:CA:631:G:H4'	2.32	0.59
1:CA:1023:G:C2'	1:CA:1024:G:H5"	2.33	0.59
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.21	0.59
1:CA:1221:G:OP1	19:CV:36:ARG:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.16	0.59
4:CG:11:LEU:O	4:CG:12:CYS:C	2.46	0.59
9:CL:114:TYR:O	9:CL:114:TYR:HD2	1.85	0.59
24:DA:64:A:N9	42:DT:66:LEU:HD13	2.18	0.59
24:DA:483:A:C4'	43:DU:49:VAL:HA	2.07	0.59
24:DA:1067:A:H2'	24:DA:1067:A:N3	2.17	0.59
24:DA:1093:G:C5'	30:DH:170:ARG:CZ	2.81	0.59
24:DA:1204:A:O2'	24:DA:1205:U:H5"	2.03	0.59
24:DA:2114:A:H3'	24:DA:2114:A:N3	2.18	0.59
24:DA:2758:A:C2	24:DA:2759:G:H1'	2.37	0.59
27:DE:61:ARG:HB2	27:DE:62:PRO:CD	2.33	0.59
30:DH:89:ILE:O	30:DH:91:GLY:N	2.35	0.59
34:DO:39:LYS:CA	34:DO:45:LEU:CD1	2.80	0.59
35:DP:97:VAL:HG21	35:DP:103:MET:HE3	1.83	0.59
41:DS:80:PRO:O	41:DS:100:THR:HG22	2.03	0.59
47:DW:64:LEU:CD2	47:DW:68:ARG:HD2	2.33	0.59
49:D4:15:ILE:HG22	49:D4:19:GLY:O	2.03	0.59
1:AA:620:C:H2'	1:AA:621:A:O4'	2.03	0.59
1:AA:624:C:H2'	1:AA:625:G:H8	1.68	0.59
1:AA:1155:G:H2'	1:AA:1156:G:H5'	1.85	0.59
1:AA:1226:C:C4'	1:AA:1227:A:OP1	2.48	0.59
1:AA:1310:G:H5'	13:AP:77:ASN:ND2	2.18	0.59
2:AE:52:GLU:O	2:AE:56:ARG:HG3	2.02	0.59
4:AG:36:ARG:CD	4:AG:38:TYR:HE2	2.16	0.59
5:AH:76:ILE:CG2	5:AH:77:PRO:HD2	2.22	0.59
7:AJ:92:SER:O	7:AJ:96:GLN:HG3	2.02	0.59
9:AL:27:THR:O	9:AL:61:ALA:O	2.21	0.59
10:AM:78:ASN:HD22	10:AM:81:THR:CG2	2.15	0.59
22:AD:15:G:N2	22:AD:48:C:N4	2.49	0.59
22:AD:47:U:O2'	22:AD:50:U:P	2.60	0.59
24:BA:932:G:H4'	24:BA:933:A:O5'	2.02	0.59
25:BB:44:G:H1'	25:BB:47:C:N4	2.18	0.59
30:BH:168:PRO:HG2	30:BH:169:VAL:H	1.68	0.59
35:BP:43:THR:HA	35:BP:94:VAL:HG12	1.84	0.59
36:B0:18:LEU:HD11	36:B0:22:ARG:NE	2.18	0.59
37:BQ:15:ARG:O	37:BQ:19:LYS:HD3	2.02	0.59
44:BV:126:VAL:HG12	44:BV:163:LEU:HA	1.83	0.59
46:BZ:87:PRO:CA	46:BZ:90:ILE:HG22	2.31	0.59
48:BX:6:VAL:HG22	48:BX:56:VAL:HG22	1.83	0.59
49:B4:20:ASN:C	49:B4:21:VAL:HG22	2.28	0.59
1:CA:60:A:O2'	1:CA:61:G:P	2.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:70:VAL:HG12	3:CF:72:LYS:N	2.10	0.59
5:CH:42:GLY:CA	5:CH:66:MET:HG2	2.33	0.59
10:CM:31:GLY:HA3	10:CM:78:ASN:ND2	2.18	0.59
11:CN:34:ASP:HB3	11:CN:40:ILE:HD11	1.83	0.59
11:CN:69:ALA:HB1	11:CN:103:LEU:HD21	1.85	0.59
12:CO:46:LYS:HG2	12:CO:47:LYS:H	1.67	0.59
24:DA:142:G:H1'	42:DT:37:THR:CG2	2.33	0.59
24:DA:1180:C:C2'	24:DA:1181:C:H5'	2.32	0.59
24:DA:1930:G:H2'	24:DA:1968:G:O6	2.02	0.59
26:DD:137:PRO:HB2	26:DD:140:THR:CG2	2.33	0.59
27:DE:36:ARG:H	27:DE:37:ARG:HH21	1.49	0.59
28:DF:63:LYS:HE2	28:DF:67:GLN:CB	2.32	0.59
29:DG:126:ASP:OD1	29:DG:130:ASN:HB2	2.02	0.59
30:DH:92:ILE:HG22	30:DH:93:GLY:N	2.18	0.59
31:DK:74:ASN:H	31:DK:74:ASN:ND2	1.97	0.59
32:DM:70:LYS:C	32:DM:71:ILE:HD13	2.28	0.59
34:DO:138:LEU:O	34:DO:140:ALA:N	2.33	0.59
40:D2:49:THR:CB	40:D2:50:PRO:HD2	2.25	0.59
1:AA:216:G:H2'	1:AA:217:C:C6	2.38	0.58
1:AA:780:A:H2	1:AA:803:G:C6	2.21	0.58
1:AA:1227:A:N3	19:AV:83:HIS:HB3	2.18	0.58
3:AF:157:ILE:O	3:AF:159:GLY:N	2.36	0.58
5:AH:80:ILE:HG22	8:AK:104:ARG:NH1	2.18	0.58
6:AI:48:LEU:HG	6:AI:57:GLN:HA	1.84	0.58
10:AM:46:ARG:HG2	10:AM:64:GLU:HB3	1.85	0.58
24:BA:30:G:H2'	24:BA:31:C:H6	1.66	0.58
24:BA:1430:C:H2'	24:BA:1431:U:H6	1.67	0.58
24:BA:1872:A:H5'	24:BA:1878:G:OP2	2.02	0.58
24:BA:2061:G:H5"	24:BA:2503:A:N1	2.16	0.58
24:BA:2650:U:H2'	24:BA:2651:C:H6	1.67	0.58
24:BA:2702:U:OP1	24:BA:2702:U:O4'	2.19	0.58
24:BA:2859:G:H3'	24:BA:2859:G:C8	2.38	0.58
26:BD:148:GLU:O	26:BD:151:LYS:HB2	2.03	0.58
28:BF:72:ARG:HH11	28:BF:72:ARG:HB3	1.67	0.58
39:B1:58:ARG:HG2	39:B1:62:ILE:CD1	2.33	0.58
39:B1:66:ASN:HD21	39:B1:70:ARG:NE	2.01	0.58
42:BT:24:GLY:O	42:BT:83:VAL:HG12	2.03	0.58
47:BW:10:LEU:C	47:BW:12:GLU:H	2.09	0.58
51:B6:43:CYS:O	51:B6:44:ARG:HB3	2.02	0.58
53:B8:33:ASN:O	53:B8:34:TRP:CB	2.50	0.58
1:CA:60:A:H4'	1:CA:61:G:O5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:976:G:H2'	1:CA:1362:C:H42	1.67	0.58
1:CA:1127:G:H21	1:CA:1147:C:N4	2.00	0.58
2:CE:47:THR:HG22	2:CE:51:LEU:HG	1.85	0.58
5:CH:153:LYS:HB2	5:CH:153:LYS:NZ	2.18	0.58
10:CM:49:VAL:HG22	14:CQ:41:ARG:HB2	1.83	0.58
11:CN:30:VAL:HG21	11:CN:65:ALA:HA	1.85	0.58
23:C1:5:A:H2'	23:C1:6:G:C8	2.38	0.58
23:C1:12:A:H5'	23:C1:13:A:OP2	2.03	0.58
24:DA:277:C:C3'	24:DA:278:A:C5'	2.69	0.58
24:DA:1428:C:C5	24:DA:1569:A:H5"	2.38	0.58
24:DA:1535:U:O2	24:DA:1536:A:H3'	2.03	0.58
24:DA:1965:C:H2'	24:DA:1966:A:C8	2.38	0.58
24:DA:2378:A:H4'	37:DQ:23:ARG:NE	2.18	0.58
24:DA:2474:C:O2	24:DA:2474:C:H2'	2.03	0.58
26:DD:44:ASN:HB3	26:DD:49:ILE:CA	2.27	0.58
28:DF:174:VAL:HG13	28:DF:174:VAL:O	2.03	0.58
30:DH:4:ILE:HG13	30:DH:6:ARG:CD	2.33	0.58
30:DH:126:PRO:CD	30:DH:127:GLU:N	2.65	0.58
31:DK:35:LEU:O	31:DK:36:ALA:HB2	2.01	0.58
34:DO:37:GLY:HA2	34:DO:41:ARG:HE	1.68	0.58
36:D0:63:ARG:HH11	36:D0:63:ARG:HG3	1.68	0.58
49:D4:3:GLU:HG3	49:D4:4:GLY:N	2.18	0.58
1:AA:697:U:H6	1:AA:697:U:C5'	2.13	0.58
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.17	0.58
2:AE:22:LYS:N	2:AE:22:LYS:HD2	2.18	0.58
2:AE:219:VAL:HA	2:AE:222:ILE:CD1	2.31	0.58
5:AH:81:GLU:HB3	5:AH:90:VAL:HG13	1.84	0.58
6:AI:67:MET:HB2	6:AI:68:PRO:HD2	1.85	0.58
7:AJ:100:ALA:O	7:AJ:104:LEU:HD23	2.03	0.58
9:AL:27:THR:HB	9:AL:33:PHE:H	1.68	0.58
11:AN:13:GLN:NE2	11:AN:76:GLY:HA3	2.15	0.58
12:AO:86:ARG:HB2	12:AO:101:VAL:CG2	2.33	0.58
16:AS:21:VAL:HG12	16:AS:34:GLU:O	2.03	0.58
24:BA:470:A:H2'	24:BA:471:A:O4'	2.04	0.58
24:BA:1251:C:O2'	24:BA:1252:G:H3'	2.03	0.58
24:BA:1332:G:H21	24:BA:1610:A:H8	1.48	0.58
24:BA:1367:A:H5'	24:BA:1368:G:OP2	2.03	0.58
24:BA:2657:A:H2'	24:BA:2658:C:C5'	2.32	0.58
24:BA:2778:A:C5'	24:BA:2779:U:OP2	2.51	0.58
29:BG:106:LEU:O	29:BG:110:ALA:HB3	2.03	0.58
30:BH:151:ILE:C	30:BH:152:ARG:HG2	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:43:VAL:HB	33:BN:54:GLU:HA	1.85	0.58
40:B2:35:LEU:HD22	40:B2:35:LEU:N	2.18	0.58
43:BU:89:PHE:HD1	43:BU:90:LEU:CD2	2.10	0.58
49:B4:14:ILE:HG13	49:B4:31:ILE:O	2.02	0.58
1:CA:474:G:H5'	16:CS:81:ARG:HG3	1.85	0.58
1:CA:998:G:O2'	1:CA:998(A):C:H5'	2.03	0.58
2:CE:212:GLN:NE2	2:CE:235:SER:HB2	2.18	0.58
4:CG:12:CYS:HA	4:CG:19:LEU:HD23	1.85	0.58
4:CG:22:LYS:HD2	4:CG:26:CYS:SG	2.43	0.58
9:CL:40:LEU:HD11	9:CL:70:LYS:HG2	1.84	0.58
17:CT:41:LYS:HZ3	17:CT:92:ARG:HH22	1.50	0.58
23:C1:6:G:O2'	23:C1:7:G:H5'	2.03	0.58
24:DA:70:G:H21	24:DA:71:A:H62	1.48	0.58
24:DA:221:A:O2'	24:DA:222:A:OP2	2.19	0.58
24:DA:2167:U:H2'	24:DA:2167:U:O2	2.03	0.58
27:DE:134:ILE:C	27:DE:134:ILE:HD12	2.28	0.58
29:DG:16:ARG:HB3	29:DG:17:PRO:CD	2.33	0.58
29:DG:64:THR:HG23	29:DG:66:GLN:H	1.67	0.58
38:DR:102:ILE:HB	38:DR:110:ILE:HD11	1.84	0.58
39:D1:47:TYR:C	39:D1:47:TYR:CD2	2.81	0.58
41:DS:9:TYR:H	41:DS:102:HIS:CD2	2.20	0.58
41:DS:9:TYR:H	41:DS:102:HIS:HD2	1.48	0.58
44:DV:18:LEU:HD12	44:DV:18:LEU:N	2.12	0.58
47:DW:32:LEU:HD11	47:DW:54:LYS:HG3	1.84	0.58
50:D5:40:LYS:NZ	50:D5:46:CYS:HB3	2.18	0.58
1:AA:280:C:H1'	17:AT:38:ARG:HD3	1.85	0.58
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.84	0.58
2:AE:87:ARG:NH2	2:AE:219:VAL:HG13	2.19	0.58
11:AN:13:GLN:CG	11:AN:76:GLY:O	2.52	0.58
12:AO:58:VAL:O	12:AO:65:GLU:HA	2.02	0.58
13:AP:9:ILE:N	13:AP:9:ILE:HD13	2.18	0.58
13:AP:80:ARG:HH12	49:B4:55:ARG:HH11	1.49	0.58
24:BA:9:U:C5'	32:BM:115:ARG:HH22	2.14	0.58
24:BA:270(U):C:H5	46:BZ:96:LYS:NZ	2.01	0.58
24:BA:1191:G:O2'	24:BA:1192:G:H5'	2.03	0.58
24:BA:1520:U:H2'	24:BA:1521:G:O4'	2.03	0.58
24:BA:2250:G:C2	35:BP:82:ARG:HD3	2.38	0.58
24:BA:2439:A:O2'	24:BA:2440:C:OP2	2.19	0.58
26:BD:24:ILE:O	26:BD:24:ILE:CG2	2.50	0.58
28:BF:110:LEU:HD23	28:BF:110:LEU:C	2.28	0.58
29:BG:76:SER:C	29:BG:77:ILE:HD12	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:112:PRO:HG2	49:B4:37:SER:CB	2.32	0.58
31:BK:127:VAL:HG22	31:BK:139:GLN:HG2	1.84	0.58
34:BO:115:LEU:CD2	34:BO:116:GLY:H	2.11	0.58
39:B1:92:ARG:O	39:B1:93:LYS:C	2.46	0.58
47:BW:24:LEU:HD22	47:BW:60:LEU:HD21	1.85	0.58
1:CA:266:G:N2	1:CA:269:C:C5	2.72	0.58
1:CA:376:G:C4'	16:CS:5:ARG:HD2	2.33	0.58
1:CA:376:G:OP2	16:CS:67:THR:HG21	2.03	0.58
1:CA:723:U:O2	1:CA:723:U:H2'	2.03	0.58
1:CA:963:G:H21	10:CM:55:LYS:CD	2.13	0.58
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.04	0.58
1:CA:1238:A:H62	1:CA:1301:U:H3	1.50	0.58
1:CA:1321:C:C4	1:CA:1322:C:C4	2.91	0.58
3:CF:77:ILE:O	3:CF:84:ILE:HG22	2.02	0.58
9:CL:79:LEU:O	9:CL:82:ALA:HB3	2.02	0.58
12:CO:45:PRO:HD3	12:CO:51:ALA:O	2.03	0.58
12:CO:82:VAL:HG23	12:CO:106:ASP:OD2	2.04	0.58
13:CP:66:LEU:O	13:CP:67:GLU:C	2.46	0.58
24:DA:528:A:H2	24:DA:2043:C:C5'	2.16	0.58
24:DA:1085:A:N3	24:DA:1086:A:H8	2.01	0.58
24:DA:1964:G:O2'	24:DA:1967:C:OP2	2.21	0.58
24:DA:2277:G:C2'	24:DA:2278:A:H5'	2.33	0.58
24:DA:2507:C:H2'	24:DA:2508:G:O5'	2.03	0.58
24:DA:2687:U:C4	24:DA:2688:U:H5	2.21	0.58
24:DA:2712:U:O2'	24:DA:2712(A):A:P	2.61	0.58
24:DA:2848:G:O2'	24:DA:2849:U:O5'	2.21	0.58
26:DD:27:THR:CG2	26:DD:28:GLU:N	2.66	0.58
34:DO:37:GLY:C	34:DO:41:ARG:HD3	2.29	0.58
36:D0:44:LEU:O	36:D0:48:VAL:HG23	2.02	0.58
38:DR:36:GLU:HG3	38:DR:41:ARG:HD3	1.85	0.58
41:DS:66:GLU:O	41:DS:68:ARG:N	2.33	0.58
44:DV:52:SER:O	44:DV:53:ILE:HG13	2.03	0.58
45:D3:51:VAL:HG21	45:D3:79:VAL:O	2.03	0.58
1:AA:321:A:N7	1:AA:328:C:O2	2.35	0.58
1:AA:434:U:H2'	1:AA:435:C:H6	1.65	0.58
1:AA:1100:C:OP2	2:AE:96:ARG:HD3	2.03	0.58
1:AA:1310:G:H5'	13:AP:77:ASN:HD21	1.68	0.58
1:AA:1381:U:H1'	7:AJ:79:ARG:NH2	2.16	0.58
2:AE:129:GLU:HB3	2:AE:130:ARG:HH12	1.68	0.58
8:AK:44:PHE:HA	8:AK:79:VAL:HG11	1.86	0.58
10:AM:6:ILE:HG22	10:AM:98:ILE:CG2	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AN:13:GLN:HG2	11:AN:76:GLY:O	2.04	0.58
19:AV:9:VAL:HG11	49:B4:63:TYR:HD1	1.68	0.58
19:AV:36:ARG:CZ	19:AV:70:LYS:HB2	2.32	0.58
19:AV:39:THR:HG22	19:AV:40:ILE:N	2.14	0.58
24:BA:68:G:H2'	24:BA:68:G:N3	2.18	0.58
24:BA:580:C:H2'	24:BA:581:C:C6	2.39	0.58
24:BA:827:U:H2'	24:BA:2068:U:C2	2.39	0.58
24:BA:1024:G:C3'	24:BA:1025:G:H5"	2.33	0.58
24:BA:1025:G:H2'	24:BA:1025:G:N3	2.18	0.58
24:BA:1324:G:H3'	24:BA:1325:G:H5'	1.85	0.58
24:BA:2355:C:H1'	45:B3:39:ARG:HH21	1.68	0.58
25:BB:8:U:H6	25:BB:8:U:C5'	2.16	0.58
25:BB:17:C:H2'	25:BB:18:G:O4'	2.02	0.58
27:BE:35:GLN:HG3	27:BE:64:LYS:NZ	2.18	0.58
29:BG:75:LYS:CG	29:BG:76:SER:H	2.15	0.58
30:BH:69:ARG:HG3	30:BH:69:ARG:HH11	1.69	0.58
39:B1:104:GLN:O	39:B1:107:ALA:HB3	2.03	0.58
42:BT:14:SER:O	42:BT:17:ALA:HB3	2.02	0.58
51:B6:14:THR:HG23	51:B6:15:GLU:H	1.67	0.58
51:B6:21:TYR:O	51:B6:22:ALA:HB2	2.03	0.58
1:CA:243:A:N6	1:CA:281:G:O2'	2.36	0.58
1:CA:321:A:N7	1:CA:328:C:O2	2.36	0.58
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.03	0.58
1:CA:1535:C:O2'	1:CA:1536:C:OP1	2.16	0.58
2:CE:75:LYS:HD3	2:CE:75:LYS:C	2.28	0.58
3:CF:149:ALA:O	3:CF:169:ALA:HA	2.02	0.58
4:CG:114:ARG:HG3	4:CG:114:ARG:NH1	2.13	0.58
9:CL:13:ALA:HB2	9:CL:67:GLY:C	2.28	0.58
12:CO:18:VAL:O	12:CO:19:ARG:HB2	2.04	0.58
14:CQ:23:ARG:H	14:CQ:33:VAL:HG11	1.67	0.58
24:DA:71:A:H2	42:DT:31:HIS:CE1	2.21	0.58
24:DA:405:U:H4'	24:DA:406:G:OP2	2.02	0.58
24:DA:1534:G:O6	24:DA:1538:G:C2	2.56	0.58
24:DA:1583:A:H5'	24:DA:1585:C:H5	1.68	0.58
24:DA:2060:A:O2'	24:DA:2061:G:OP2	2.21	0.58
24:DA:2712:U:O2'	24:DA:2712(A):A:O5'	2.20	0.58
24:DA:2783:G:H2'	24:DA:2784:C:H6	1.69	0.58
26:DD:165:ILE:HA	26:DD:175:LEU:HD23	1.83	0.58
32:DM:9:VAL:HG21	32:DM:48:MET:HB3	1.85	0.58
33:DN:12:ASP:CG	33:DN:14:THR:HG23	2.29	0.58
34:DO:65:ARG:HH21	53:D8:15:LYS:CB	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DP:66:ILE:HA	35:DP:104:PHE:HA	1.85	0.58
36:D0:2:ARG:HG2	36:D0:5:LYS:HZ1	1.68	0.58
44:DV:144:LEU:HD21	44:DV:150:LEU:HD22	1.83	0.58
47:DW:17:SER:CB	47:DW:18:PRO:HA	2.33	0.58
47:DW:51:ARG:HA	47:DW:54:LYS:HB2	1.86	0.58
1:AA:712:A:O2'	1:AA:713:G:H5'	2.04	0.58
1:AA:998(A):C:C2'	1:AA:999:U:H5"	2.34	0.58
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.68	0.58
1:AA:1119:C:OP2	9:AL:9:ARG:NH2	2.37	0.58
1:AA:1310:G:OP1	13:AP:77:ASN:OD1	2.21	0.58
1:AA:1387:G:H2'	1:AA:1388:C:C6	2.38	0.58
3:AF:23:TYR:N	3:AF:23:TYR:HD1	2.01	0.58
7:AJ:137:LYS:O	7:AJ:141:VAL:HG23	2.04	0.58
10:AM:22:LYS:HD2	10:AM:26:ALA:HB2	1.85	0.58
10:AM:32:ALA:HB1	10:AM:75:ILE:HG12	1.86	0.58
11:AN:13:GLN:OE1	11:AN:13:GLN:C	2.46	0.58
13:AP:77:ASN:O	13:AP:80:ARG:HB2	2.04	0.58
24:BA:329:G:C6	43:BU:19:LYS:HG2	2.38	0.58
24:BA:582:G:H2'	24:BA:583:G:C8	2.38	0.58
24:BA:1187:G:H8	24:BA:1187:G:O5'	1.87	0.58
24:BA:2349:G:H5'	24:BA:2349:G:H8	1.68	0.58
24:BA:2585:U:O2'	24:BA:2586:C:H5'	2.03	0.58
24:BA:2810:A:O3'	27:BE:61:ARG:HG3	2.02	0.58
27:BE:137:HIS:HB3	27:BE:138:PRO:HD2	1.86	0.58
30:BH:92:ILE:HG22	30:BH:93:GLY:H	1.68	0.58
32:BM:120:LEU:HD21	32:BM:122:VAL:CG2	2.32	0.58
33:BN:47:ILE:O	33:BN:48:PRO:O	2.22	0.58
34:BO:101:VAL:CG1	34:BO:102:ARG:N	2.67	0.58
35:BP:32:TYR:HB2	35:BP:106:VAL:CG2	2.32	0.58
40:B2:6:LYS:H	40:B2:37:VAL:HG11	1.68	0.58
41:BS:34:ASN:O	41:BS:35:ILE:C	2.44	0.58
43:BU:52:SER:N	43:BU:53:PRO:HD3	2.17	0.58
44:BV:53:ILE:HG22	44:BV:71:VAL:HG13	1.85	0.58
44:BV:141:VAL:HG12	44:BV:143:GLY:H	1.68	0.58
49:B4:14:ILE:CG1	49:B4:15:ILE:N	2.66	0.58
53:B8:10:ALA:C	53:B8:12:LYS:H	2.11	0.58
1:CA:1019:C:H2'	1:CA:1020:U:C5'	2.33	0.58
3:CF:95:THR:HG22	3:CF:96:GLY:N	2.07	0.58
5:CH:102:ALA:HB2	5:CH:120:THR:OG1	2.03	0.58
13:CP:19:LEU:H	13:CP:19:LEU:HD22	1.68	0.58
15:CR:4:THR:HB	15:CR:6:GLU:OE2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CS:28:ARG:HH11	16:CS:28:ARG:HG2	1.68	0.58
24:DA:85:G:O2'	24:DA:86:C:H5'	2.03	0.58
24:DA:627:A:H4'	24:DA:628:G:OP1	2.02	0.58
24:DA:1360:A:N6	24:DA:1372:U:O4	2.37	0.58
24:DA:1372:U:O2'	24:DA:1373:A:H5'	2.04	0.58
24:DA:2287:A:N1	24:DA:2346:A:C2	2.71	0.58
25:DB:45:A:H1'	29:DG:95:ARG:NH1	2.18	0.58
28:DF:89:VAL:HG12	28:DF:90:PHE:N	2.18	0.58
30:DH:85:LYS:HA	30:DH:86:GLU:OE1	2.03	0.58
31:DK:52:ARG:O	31:DK:56:LYS:HB3	2.03	0.58
33:DN:7:TYR:C	33:DN:8:LEU:HD22	2.29	0.58
38:DR:88:ILE:C	38:DR:88:ILE:HD12	2.29	0.58
42:DT:36:LYS:HE3	42:DT:54:VAL:O	2.04	0.58
44:DV:125:LEU:C	44:DV:164:ALA:HB3	2.29	0.58
49:D4:65:ASP:O	49:D4:66:SER:CB	2.51	0.58
22:CB:19:G:H4'	22:CB:61:U:O2	2.03	0.58
1:AA:9:G:H2'	1:AA:10:A:H8	1.68	0.58
1:AA:176:C:H2'	1:AA:177:C:C6	2.38	0.58
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.67	0.58
1:AA:1318:A:H4'	19:AV:10:PHE:CZ	2.39	0.58
3:AF:16:ARG:HH21	3:AF:181:ASN:HA	1.67	0.58
3:AF:108:ASN:ND2	3:AF:144:SER:HB2	2.18	0.58
5:AH:78:HIS:NE2	5:AH:142:LEU:HA	2.19	0.58
7:AJ:12:LEU:H	7:AJ:12:LEU:HD12	1.68	0.58
19:AV:36:ARG:CG	19:AV:72:GLY:H	2.16	0.58
24:BA:852:G:O2'	24:BA:853:G:H5'	2.03	0.58
24:BA:1952:A:C5	33:BN:22:ILE:HD12	2.38	0.58
24:BA:2250:G:C4	35:BP:82:ARG:HD3	2.38	0.58
24:BA:2445:G:OP1	28:BF:74:ARG:NH2	2.35	0.58
24:BA:2569:G:O2'	24:BA:2570:G:H5'	2.03	0.58
25:BB:45:A:O4'	29:BG:95:ARG:NH1	2.36	0.58
27:BE:77:ILE:C	27:BE:78:LEU:HD23	2.29	0.58
27:BE:120:TRP:CD1	27:BE:155:LYS:HB3	2.38	0.58
28:BF:5:ALA:HB1	28:BF:125:LEU:CD2	2.33	0.58
28:BF:153:SER:HB2	28:BF:189:THR:HA	1.84	0.58
35:BP:58:PHE:C	35:BP:59:ARG:HD2	2.28	0.58
36:B0:105:ARG:CG	36:B0:105:ARG:HH11	2.16	0.58
46:BZ:7:ILE:HD12	46:BZ:62:VAL:HG11	1.85	0.58
52:B7:49:ARG:HD3	52:B7:49:ARG:OXT	2.04	0.58
1:CA:1002:G:C2'	1:CA:1003:G:H5'	2.34	0.58
1:CA:1009:G:O2'	1:CA:1010:G:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1214:C:H5”	1:CA:1215:G:OP2	2.03	0.58
1:CA:1374:A:C2’	1:CA:1375:A:H5’	2.33	0.58
2:CE:80:ILE:HG21	2:CE:212:GLN:HA	1.85	0.58
4:CG:191:ARG:NH1	4:CG:200:GLU:OE1	2.37	0.58
4:CG:201:GLN:HE21	4:CG:201:GLN:HA	1.69	0.58
5:CH:68:GLU:O	5:CH:68:GLU:HG3	2.03	0.58
7:CJ:49:ILE:O	7:CJ:53:LYS:HB3	2.04	0.58
7:CJ:102:ARG:HG2	7:CJ:106:GLN:NE2	2.19	0.58
13:CP:45:VAL:HG22	13:CP:45:VAL:O	2.02	0.58
16:CS:53:VAL:HG23	16:CS:54:GLU:N	2.18	0.58
19:CV:68:GLY:CA	49:D4:68:ARG:CB	2.80	0.58
22:CC:17(A):C:H5”	22:CC:18:G:OP2	2.04	0.58
24:DA:84:A:H4’	24:DA:85:G:O5’	2.04	0.58
24:DA:583:G:H5”	39:D1:10:ARG:NH1	2.16	0.58
24:DA:1053:C:C2’	24:DA:1054:A:H5”	2.34	0.58
24:DA:1204:A:C2	24:DA:1241:A:N1	2.70	0.58
24:DA:2175:C:H3’	24:DA:2176:A:H5”	1.86	0.58
24:DA:2344:U:OP1	51:D6:38:LYS:HD3	2.03	0.58
24:DA:2418:A:H2’	24:DA:2419:U:C6	2.38	0.58
24:DA:2842:G:O2’	24:DA:2843:G:H5’	2.02	0.58
24:DA:2877:G:H2’	24:DA:2878:U:O4’	2.03	0.58
25:DB:95:U:C6	25:DB:95:U:C3’	2.87	0.58
27:DE:51:PHE:CD1	27:DE:52:LEU:HG	2.38	0.58
33:DN:40:VAL:HG12	33:DN:41:ALA:N	2.19	0.58
35:DP:55:VAL:HG22	35:DP:56:ARG:N	2.18	0.58
40:D2:38:LEU:HD23	40:D2:39:LEU:N	2.19	0.58
42:DT:7:VAL:O	42:DT:30:VAL:HG12	2.04	0.58
44:DV:52:SER:C	44:DV:53:ILE:HG13	2.29	0.58
1:AA:513:C:H2’	1:AA:514:C:C6	2.38	0.58
1:AA:629:G:H2’	1:AA:630:G:H8	1.67	0.58
1:AA:697:U:H5’	1:AA:697:U:C6	2.28	0.58
1:AA:1137:C:H4’	1:AA:1138:G:H5”	1.85	0.58
3:AF:82:GLU:CG	3:AF:83:ARG:H	1.94	0.58
3:AF:196:LEU:N	3:AF:196:LEU:HD23	2.18	0.58
8:AK:6:ILE:HD12	8:AK:6:ILE:N	2.17	0.58
12:AO:60:LEU:CD2	12:AO:66:VAL:HG22	2.34	0.58
18:AU:22:VAL:HG22	18:AU:23:LYS:N	2.19	0.58
24:BA:1045:A:OP1	24:BA:1045:A:H4’	2.03	0.58
24:BA:1045:A:H1’	24:BA:1047:G:C4	2.38	0.58
24:BA:1392:A:N6	24:BA:1393:A:N6	2.50	0.58
24:BA:2286:A:H2	51:B6:25:LYS:O	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2294:C:P	37:BQ:89:ARG:HH22	2.27	0.58
26:BD:200:ASP:O	26:BD:201:HIS:C	2.47	0.58
28:BF:4:VAL:HA	28:BF:19:GLU:CB	2.32	0.58
28:BF:61:GLY:CA	28:BF:77:ASP:HB3	2.33	0.58
29:BG:38:VAL:CG1	29:BG:158:ALA:HB3	2.33	0.58
30:BH:4:ILE:C	30:BH:6:ARG:N	2.60	0.58
31:BK:98:ALA:HA	31:BK:109:ILE:HD11	1.85	0.58
34:BO:97:PRO:O	34:BO:99:LEU:N	2.29	0.58
35:BP:104:PHE:N	35:BP:104:PHE:CD1	2.71	0.58
37:BQ:59:LYS:HG2	37:BQ:60:GLY:N	2.19	0.58
38:BR:36:GLU:O	38:BR:36:GLU:HG3	2.02	0.58
38:BR:60:THR:HG22	38:BR:77:PRO:HA	1.84	0.58
47:BW:49:LYS:O	47:BW:53:LEU:N	2.37	0.58
49:B4:12:ALA:CB	49:B4:23:GLU:C	2.44	0.58
49:B4:50:VAL:HG12	49:B4:51:ASP:H	1.69	0.58
53:B8:6:THR:O	53:B8:7:HIS:HB3	2.04	0.58
1:CA:244:U:O2'	1:CA:245:C:OP2	2.17	0.58
3:CF:181:ASN:HD22	3:CF:204:LEU:HB2	1.68	0.58
4:CG:13:ARG:CD	4:CG:38:TYR:O	2.51	0.58
8:CK:86:ILE:HG13	8:CK:133:LEU:HD22	1.84	0.58
16:CS:14:ASN:N	16:CS:15:PRO:CD	2.67	0.58
22:CC:65:C:O2'	22:CC:66:C:H5'	2.02	0.58
24:DA:195:A:OP1	34:DO:46:LYS:HE2	2.04	0.58
24:DA:704:G:C2'	24:DA:726:G:N2	2.66	0.58
24:DA:1348:G:C2'	24:DA:1349:A:H5"	2.34	0.58
24:DA:1872:A:H5'	24:DA:1878:G:OP2	2.04	0.58
24:DA:2111:C:C2	24:DA:2118:U:O2'	2.55	0.58
24:DA:2311:A:C8	29:DG:82:LEU:HD11	2.38	0.58
27:DE:72:VAL:O	27:DE:73:GLU:O	2.21	0.58
27:DE:78:LEU:HD23	27:DE:79:ARG:HD2	1.86	0.58
28:DF:138:GLU:O	28:DF:141:ALA:HB3	2.03	0.58
31:DK:133:HIS:HB2	31:DK:134:PRO:CD	2.34	0.58
34:DO:71:VAL:HG13	34:DO:72:PRO:HD3	1.84	0.58
43:DU:81:LYS:HD3	43:DU:97:ARG:CD	2.33	0.58
45:D3:29:GLN:O	45:D3:31:VAL:HG13	2.03	0.58
1:AA:3:G:H4'	1:AA:4:U:H5'	1.84	0.58
1:AA:532:A:O2'	1:AA:533:A:P	2.61	0.58
1:AA:581:G:OP1	15:AR:61:GLY:HA3	2.03	0.58
1:AA:1118:C:P	9:AL:104:ARG:HH11	2.26	0.58
1:AA:1238:A:N7	1:AA:1301:U:O4	2.37	0.58
4:AG:26:CYS:SG	4:AG:32:ALA:N	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:62:GLN:HB3	4:AG:66:ARG:HD2	1.85	0.58
8:AK:25:ASP:OD1	8:AK:25:ASP:N	2.36	0.58
15:AR:69:TYR:O	15:AR:73:GLU:HG2	2.04	0.58
18:AU:71:LYS:O	18:AU:75:ILE:HG13	2.03	0.58
19:AV:64:GLU:O	19:AV:66:MET:HE2	2.04	0.58
20:AW:87:LYS:O	20:AW:90:GLN:N	2.37	0.58
24:BA:91:A:C2'	24:BA:92:G:H5'	2.33	0.58
24:BA:1029:A:H2'	24:BA:1030:G:O4'	2.04	0.58
24:BA:1054:A:H8	24:BA:1054:A:H5'	1.68	0.58
29:BG:75:LYS:O	29:BG:76:SER:CB	2.51	0.58
30:BH:17:VAL:HG11	30:BH:49:VAL:HG23	1.85	0.58
33:BN:69:ILE:HG22	33:BN:70:LYS:N	2.19	0.58
38:BR:5:ALA:O	38:BR:8:LYS:HB3	2.02	0.58
40:B2:77:ALA:C	40:B2:78:LYS:HG2	2.29	0.58
44:BV:111:VAL:HG21	44:BV:145:GLU:CB	2.33	0.58
53:B8:60:LEU:C	53:B8:61:LEU:HG	2.28	0.58
1:CA:107:G:C2'	1:CA:108:G:H5'	2.33	0.58
1:CA:328:C:O2	1:CA:328:C:C2'	2.51	0.58
1:CA:1158:C:H4'	2:CE:133:LYS:HZ3	1.67	0.58
1:CA:1365:G:H2'	1:CA:1366:C:H6	1.69	0.58
1:CA:1542:G:H8	18:CU:19:LYS:HZ3	1.50	0.58
2:CE:19:HIS:NE2	2:CE:206:ASP:HB2	2.18	0.58
3:CF:189:ALA:HB3	3:CF:196:LEU:HB2	1.84	0.58
7:CJ:69:VAL:HG11	7:CJ:104:LEU:CD2	2.34	0.58
8:CK:84:ARG:NH1	8:CK:86:ILE:HD13	2.11	0.58
24:DA:120:U:H1'	24:DA:149:A:C8	2.38	0.58
24:DA:859:G:O2'	24:DA:860:U:P	2.61	0.58
24:DA:989:G:C8	48:DX:13:ILE:HD11	2.39	0.58
24:DA:1482:U:H5'	24:DA:1483:G:OP2	2.03	0.58
24:DA:2699:C:O2'	24:DA:2700:C:H5'	2.02	0.58
26:DD:34:VAL:C	26:DD:35:LYS:HG3	2.29	0.58
30:DH:117:PRO:HB3	30:DH:123:PHE:CD1	2.37	0.58
31:DK:47:LEU:O	31:DK:51:ILE:HG13	2.03	0.58
32:DM:13:TRP:O	32:DM:135:PRO:HD2	2.03	0.58
32:DM:63:THR:HG22	32:DM:66:LYS:HZ1	1.68	0.58
34:DO:71:VAL:CG1	34:DO:72:PRO:HD3	2.33	0.58
34:DO:112:LEU:C	34:DO:112:LEU:HD13	2.29	0.58
35:DP:47:ILE:CD1	35:DP:70:PRO:HD3	2.34	0.58
44:DV:27:VAL:HG22	44:DV:28:MET:H	1.68	0.58
44:DV:30:ASN:HB3	44:DV:89:PHE:HE2	1.68	0.58
44:DV:154:ASP:O	44:DV:155:LEU:O	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:360:A:O2'	1:AA:361:G:H5'	2.04	0.58
1:AA:815:A:O2'	1:AA:816:A:P	2.62	0.58
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.17	0.58
2:AE:165:VAL:HG23	2:AE:166:ASP:N	2.19	0.58
3:AF:113:ALA:HB3	3:AF:114:PRO:CD	2.31	0.58
5:AH:45:PHE:HE2	5:AH:47:LYS:HD2	1.69	0.58
6:AI:69:GLU:CD	6:AI:69:GLU:N	2.62	0.58
9:AL:37:PHE:CE2	9:AL:70:LYS:HG3	2.38	0.58
24:BA:104:U:H3'	24:BA:105:C:C6	2.39	0.58
24:BA:859:G:O2'	24:BA:860:U:P	2.61	0.58
24:BA:923:C:H2'	24:BA:924:C:C6	2.39	0.58
24:BA:999:U:C2'	24:BA:1000:A:C5'	2.79	0.58
24:BA:1822:G:H5'	24:BA:1822:G:C8	2.36	0.58
26:BD:172:TYR:CD1	26:BD:186:HIS:HA	2.38	0.58
28:BF:161:GLU:HG2	28:BF:164:ARG:HH22	1.67	0.58
28:BF:182:ASN:HD21	28:BF:185:ASP:CG	2.11	0.58
30:BH:105:LEU:HD12	30:BH:113:VAL:HB	1.85	0.58
32:BM:28:THR:HA	32:BM:106:MET:CE	2.34	0.58
34:BO:75:ILE:H	34:BO:75:ILE:CD1	2.05	0.58
35:BP:32:TYR:HB2	35:BP:106:VAL:HG22	1.86	0.58
38:BR:8:LYS:C	38:BR:10:VAL:N	2.55	0.58
42:BT:26:TYR:O	42:BT:81:VAL:HG22	2.04	0.58
45:B3:14:ARG:O	45:B3:15:ASP:HB2	2.02	0.58
46:BZ:51:VAL:HG11	46:BZ:74:VAL:HG21	1.85	0.58
47:BW:17:SER:CB	47:BW:18:PRO:HA	2.34	0.58
53:B8:23:VAL:HG12	53:B8:47:LYS:HB3	1.86	0.58
1:CA:272:C:H2'	1:CA:273:A:C8	2.38	0.58
1:CA:403:C:O2'	1:CA:404:U:H5'	2.04	0.58
2:CE:111:ARG:HA	2:CE:111:ARG:NE	2.19	0.58
2:CE:115:LEU:HD23	2:CE:153:ARG:HD3	1.85	0.58
2:CE:140:HIS:HA	2:CE:143:GLU:OE1	2.04	0.58
3:CF:33:LEU:O	3:CF:37:GLN:HG2	2.04	0.58
3:CF:36:ASP:HB3	3:CF:40:ARG:HH12	1.68	0.58
3:CF:76:VAL:HG21	3:CF:103:VAL:CG1	2.34	0.58
8:CK:19:VAL:O	8:CK:20:TYR:HB2	2.04	0.58
15:CR:37:ASN:N	15:CR:37:ASN:HD22	2.01	0.58
24:DA:242:G:C5'	53:D8:62:LEU:HD22	2.32	0.58
24:DA:1236:G:O2'	24:DA:1237:A:H8	1.85	0.58
24:DA:2126:A:O2'	24:DA:2127:G:OP2	2.22	0.58
24:DA:2530:A:H2'	24:DA:2531:A:H5'	1.86	0.58
24:DA:2747:G:OP1	30:DH:138:LYS:NZ	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2776:A:H4'	24:DA:2777:G:H5"	1.86	0.58
24:DA:2797:U:O2	24:DA:2797:U:H2'	2.04	0.58
24:DA:2887:U:H2'	24:DA:2888:C:C6	2.39	0.58
26:DD:71:ASP:HB3	26:DD:103:ARG:HH22	1.68	0.58
28:DF:160:ASN:OD1	28:DF:162:LEU:HB2	2.04	0.58
31:DK:2:LYS:CB	31:DK:20:ASP:HB3	2.34	0.58
31:DK:127:VAL:HG22	31:DK:139:GLN:HB3	1.84	0.58
32:DM:35:ARG:O	32:DM:37:LYS:N	2.37	0.58
40:D2:81:TYR:C	40:D2:82:ARG:HG3	2.27	0.58
41:DS:95:ILE:O	41:DS:95:ILE:HD12	2.04	0.58
46:DZ:81:LYS:HE2	46:DZ:81:LYS:CA	2.13	0.58
47:DW:15:LYS:H	47:DW:67:LYS:CE	2.17	0.58
47:DW:21:LEU:O	47:DW:25:VAL:HG23	2.04	0.58
47:DW:69:ARG:NH1	47:DW:69:ARG:CB	2.67	0.58
49:D4:12:ALA:CB	49:D4:29:PRO:HA	2.33	0.58
1:AA:19:C:H5"	5:AH:86:ALA:HB3	1.85	0.58
1:AA:89:U:H2'	1:AA:90:C:H6	1.69	0.58
1:AA:748:C:O2'	1:AA:749:C:OP2	2.22	0.58
1:AA:1363:A:O2'	1:AA:1364:U:H5'	2.03	0.58
2:AE:76:GLN:HA	2:AE:76:GLN:NE2	2.19	0.58
2:AE:177:ALA:O	2:AE:179:LYS:N	2.37	0.58
2:AE:216:SER:C	2:AE:218:ALA:H	2.11	0.58
5:AH:144:THR:C	5:AH:146:ALA:H	2.12	0.58
7:AJ:25:ALA:O	7:AJ:29:LYS:HG2	2.04	0.58
8:AK:34:GLU:HA	8:AK:34:GLU:OE1	2.04	0.58
24:BA:74:A:C5'	24:BA:75:G:O4'	2.52	0.58
24:BA:593:G:C1'	53:B8:4:MET:HE1	2.33	0.58
24:BA:1022:G:O2'	24:BA:1023:U:P	2.61	0.58
24:BA:1153:C:H2'	24:BA:1154:G:O4'	2.04	0.58
24:BA:1947:C:C2'	24:BA:1948:G:H5"	2.34	0.58
24:BA:2134:A:N6	24:BA:2157:G:H1'	2.17	0.58
24:BA:2473:U:O2	24:BA:2473:U:H2'	2.03	0.58
26:BD:70:TRP:CH2	26:BD:150:LYS:HA	2.39	0.58
34:BO:50:ARG:O	34:BO:50:ARG:HG3	2.03	0.58
38:BR:35:LYS:N	38:BR:35:LYS:HD2	2.19	0.58
1:CA:109:A:C4'	1:CA:110:C:OP2	2.52	0.58
1:CA:1067:A:O2'	1:CA:1068:G:H8	1.86	0.58
1:CA:1118:C:H1'	1:CA:1179:A:C5	2.39	0.58
1:CA:1190:G:P	3:CF:5:ILE:HG23	2.43	0.58
2:CE:97:TRP:HH2	2:CE:176:GLU:HB2	1.69	0.58
12:CO:54:LYS:N	12:CO:54:LYS:HD2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CC:61:C:H2'	22:CC:62:C:H6	1.68	0.58
24:DA:582:G:H2'	24:DA:583:G:C8	2.39	0.58
24:DA:865:C:C4'	24:DA:866:A:OP1	2.51	0.58
24:DA:1049:C:N3	24:DA:2751:G:O6	2.37	0.58
24:DA:1498:C:O4'	24:DA:1577:C:H4'	2.04	0.58
24:DA:2376:A:N1	37:DQ:87:PHE:CD2	2.72	0.58
27:DE:63:LEU:HD13	27:DE:65:GLY:H	1.68	0.58
27:DE:111:ARG:NE	27:DE:160:TYR:HE1	2.01	0.58
28:DF:53:THR:C	28:DF:55:GLY:H	2.11	0.58
28:DF:179:GLU:CD	28:DF:179:GLU:H	2.11	0.58
35:DP:134:ARG:NE	44:DV:122:ARG:NH2	2.52	0.58
37:DQ:95:HIS:CG	37:DQ:96:GLY:H	2.21	0.58
41:DS:43:GLY:O	41:DS:44:ALA:C	2.46	0.58
42:DT:27:THR:HB	42:DT:80:ILE:HB	1.84	0.58
43:DU:51:VAL:CG1	43:DU:52:SER:H	2.11	0.58
48:DX:22:ALA:O	48:DX:25:ALA:HB3	2.04	0.58
22:CB:11:A:O2'	22:CB:12:G:H5'	2.03	0.58
1:AA:17:U:H2'	1:AA:18:C:H6	1.68	0.57
1:AA:509:A:H5"	4:AG:55:ALA:HB2	1.86	0.57
1:AA:884:U:H5'	1:AA:885:G:OP1	2.04	0.57
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.21	0.57
1:AA:998(A):C:H2'	1:AA:999:U:C5'	2.33	0.57
1:AA:1118:C:H5'	1:AA:1118:C:H6	1.68	0.57
2:AE:154:LEU:HD22	2:AE:155:LEU:N	2.19	0.57
9:AL:10:ARG:HG2	9:AL:104:ARG:O	2.03	0.57
10:AM:74:ILE:HD13	10:AM:74:ILE:H	1.67	0.57
17:AT:67:LYS:O	17:AT:68:ARG:HB3	2.03	0.57
20:AW:96:GLY:O	20:AW:97:ALA:O	2.22	0.57
24:BA:616:A:O2'	24:BA:617:G:O4'	2.22	0.57
24:BA:812:C:H1'	24:BA:1250:G:N2	2.19	0.57
24:BA:902:C:H2'	24:BA:903:C:C6	2.39	0.57
24:BA:1352:U:O2	24:BA:1570:A:H2	1.87	0.57
24:BA:1358:G:H1'	24:BA:1373:A:H61	1.69	0.57
24:BA:2294:C:P	37:BQ:89:ARG:NH2	2.76	0.57
24:BA:2329:G:H2'	24:BA:2330:G:H8	1.67	0.57
24:BA:2392:A:C8	34:BO:61:ARG:HD2	2.36	0.57
25:BB:7:G:H3'	25:BB:8:U:C5'	2.32	0.57
25:BB:28:C:H42	25:BB:56:G:H1	1.52	0.57
28:BF:26:ALA:C	28:BF:27:GLU:HG2	2.29	0.57
34:BO:60:MET:C	34:BO:61:ARG:HG2	2.29	0.57
37:BQ:67:ARG:HB2	37:BQ:67:ARG:CZ	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:50:ILE:O	38:BR:99:LEU:HD12	2.04	0.57
43:BU:42:VAL:HG13	43:BU:65:ALA:HB3	1.85	0.57
43:BU:81:LYS:HD3	43:BU:97:ARG:NH1	2.19	0.57
43:BU:95:LYS:HZ3	43:BU:95:LYS:CB	2.05	0.57
49:B4:22:ILE:HG23	49:B4:23:GLU:N	2.19	0.57
51:B6:26:ASN:O	51:B6:28:ARG:N	2.36	0.57
1:CA:1305:G:OP1	21:CX:2:GLY:HA2	2.04	0.57
1:CA:1534:A:C2'	1:CA:1535:C:H5	2.17	0.57
4:CG:196:LEU:O	4:CG:198:VAL:N	2.31	0.57
5:CH:140:ARG:HH11	5:CH:140:ARG:HB2	1.69	0.57
13:CP:4:ILE:HG22	13:CP:5:ALA:N	2.19	0.57
24:DA:248:G:H5'	24:DA:250:G:N7	2.19	0.57
24:DA:527:C:N4	24:DA:2777:G:O2'	2.37	0.57
24:DA:1085:A:H2'	24:DA:1086:A:C8	2.39	0.57
24:DA:1210:A:H4'	24:DA:1211:U:O5'	2.03	0.57
24:DA:2391:G:O2'	24:DA:2424:C:N4	2.37	0.57
24:DA:2758:A:C4	30:DH:67:LEU:HD21	2.39	0.57
26:DD:242:ARG:N	26:DD:242:ARG:HD2	2.18	0.57
27:DE:63:LEU:HD12	27:DE:65:GLY:H	1.69	0.57
30:DH:4:ILE:HD13	30:DH:4:ILE:H	1.68	0.57
32:DM:14:VAL:HG12	32:DM:15:LEU:N	2.18	0.57
32:DM:114:ARG:O	32:DM:115:ARG:HB3	2.03	0.57
36:D0:117:VAL:CG2	36:D0:118:GLU:H	2.15	0.57
37:DQ:26:LEU:HD12	37:DQ:39:ILE:CD1	2.23	0.57
39:D1:24:TYR:HE1	39:D1:39:LEU:HD23	1.69	0.57
39:D1:39:LEU:O	39:D1:40:PHE:C	2.48	0.57
47:DW:16:LEU:O	47:DW:17:SER:HB3	2.04	0.57
1:AA:518:C:H5	1:AA:530:G:H5'	1.68	0.57
1:AA:1004:A:C2'	1:AA:1025:U:O4	2.53	0.57
2:AE:23:ARG:HH11	2:AE:23:ARG:HG2	1.68	0.57
2:AE:70:PHE:HA	2:AE:163:PHE:O	2.05	0.57
7:AJ:5:ARG:O	7:AJ:7:ALA:N	2.37	0.57
9:AL:89:ASN:N	9:AL:90:PRO:HD3	2.18	0.57
24:BA:389:G:H1	34:BO:70:GLN:HB3	1.69	0.57
24:BA:690:G:H2'	24:BA:691:C:C6	2.39	0.57
24:BA:704:G:HO2'	24:BA:705:A:P	2.26	0.57
24:BA:995:C:O2'	24:BA:996:A:OP2	2.18	0.57
24:BA:2681:C:O2	24:BA:2681:C:C2'	2.50	0.57
26:BD:79:VAL:HG21	26:BD:111:LEU:HD11	1.85	0.57
26:BD:84:TYR:HE2	26:BD:86:PRO:HB3	1.69	0.57
26:BD:227:ASN:HB3	26:BD:228:PRO:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:18:ARG:CG	28:BF:19:GLU:H	2.02	0.57
30:BH:152:ARG:C	30:BH:154:PRO:CD	2.77	0.57
32:BM:45:ASN:HD22	32:BM:45:ASN:N	1.91	0.57
32:BM:96:GLU:O	32:BM:100:GLU:HG3	2.04	0.57
35:BP:78:PRO:O	35:BP:79:LEU:HG	2.04	0.57
38:BR:119:LYS:C	38:BR:121:ILE:H	2.12	0.57
39:B1:102:GLU:O	39:B1:105:VAL:HG22	2.04	0.57
40:B2:83:ARG:N	40:B2:83:ARG:HD2	2.19	0.57
42:BT:55:ASN:HB2	42:BT:80:ILE:HG13	1.85	0.57
43:BU:50:ARG:HB3	43:BU:53:PRO:CG	2.34	0.57
44:BV:112:ARG:HD2	44:BV:113:ALA:N	2.18	0.57
44:BV:127:LYS:HB3	44:BV:162:GLU:HB2	1.86	0.57
44:BV:150:LEU:CG	44:BV:171:ILE:HG22	2.33	0.57
44:BV:165:VAL:HG21	44:BV:169:GLU:HG2	1.85	0.57
47:BW:13:ALA:HB1	47:BW:21:LEU:HD21	1.87	0.57
47:BW:64:LEU:HD21	47:BW:68:ARG:NE	2.19	0.57
53:B8:32:LEU:HD23	53:B8:36:LYS:HE3	1.85	0.57
1:CA:192:U:H2'	1:CA:193:C:H6	1.69	0.57
1:CA:621:A:H2'	1:CA:622:A:O4'	2.03	0.57
1:CA:757:U:H2'	1:CA:758:G:O4'	2.03	0.57
1:CA:954:G:H2'	1:CA:955:U:C6	2.39	0.57
1:CA:1116:C:C2'	1:CA:1117:G:C5'	2.82	0.57
6:CI:39:LYS:HD2	6:CI:64:GLN:NE2	2.19	0.57
13:CP:84:ILE:HG23	13:CP:85:GLY:N	2.17	0.57
24:DA:372:G:O2'	24:DA:373:U:OP2	2.21	0.57
24:DA:1084:A:C2	24:DA:1085:A:N7	2.72	0.57
24:DA:1212:G:H2'	24:DA:1236:G:H22	1.69	0.57
24:DA:1266:G:C5	41:DS:15:ARG:NH1	2.73	0.57
24:DA:1789:A:H2'	24:DA:1790:C:O4'	2.04	0.57
24:DA:1978:A:H2'	24:DA:1979:C:C6	2.40	0.57
24:DA:2067:G:H4'	24:DA:2068:U:OP2	2.04	0.57
24:DA:2599:G:OP2	26:DD:236:GLY:HA2	2.05	0.57
24:DA:2723:C:OP1	36:D0:3:HIS:HD2	1.87	0.57
25:DB:21:G:H2'	25:DB:22:U:O4'	2.04	0.57
27:DE:6:GLY:HA3	27:DE:26:ILE:HD11	1.85	0.57
29:DG:39:ILE:HG23	29:DG:155:MET:HG3	1.86	0.57
31:DK:11:ASN:O	31:DK:12:LEU:CB	2.51	0.57
50:D5:60:VAL:OXT	50:D5:60:VAL:HG13	2.03	0.57
22:CB:59:A:O2'	22:CB:61:U:C6	2.57	0.57
1:AA:579:G:H2'	1:AA:580:U:C6	2.40	0.57
1:AA:597:G:H2'	1:AA:598:U:H5'	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:169:LYS:HD3	2:AE:169:LYS:O	2.03	0.57
4:AG:128:VAL:C	4:AG:130:GLY:H	2.12	0.57
5:AH:20:GLN:O	5:AH:21:ALA:C	2.47	0.57
16:AS:40:ASP:HB3	16:AS:48:TRP:CB	2.33	0.57
18:AU:26:LEU:HD12	18:AU:26:LEU:N	2.18	0.57
22:AD:50:U:H2'	22:AD:51:C:H6	1.69	0.57
24:BA:1174:A:H3'	24:BA:1175:U:H4'	1.85	0.57
24:BA:1226:G:OP1	40:B2:85:LYS:HD3	2.03	0.57
24:BA:1725:G:H5'	24:BA:1726:G:OP2	2.04	0.57
24:BA:1791:A:N6	24:BA:1828:G:O2'	2.37	0.57
24:BA:1802:A:H2'	24:BA:1803:A:C8	2.40	0.57
24:BA:2023:G:OP2	24:BA:2617:C:H4'	2.04	0.57
24:BA:2050:C:H1'	27:BE:156:MET:CE	2.33	0.57
24:BA:2347:C:H2'	24:BA:2348:U:H6	1.69	0.57
24:BA:2759:G:H2'	24:BA:2760:C:H5'	1.86	0.57
25:BB:8:U:OP1	37:BQ:11:LYS:HD2	2.04	0.57
27:BE:16:ARG:O	27:BE:16:ARG:HD2	2.04	0.57
27:BE:182:LEU:C	27:BE:183:LEU:HD12	2.30	0.57
34:BO:75:ILE:HD13	34:BO:75:ILE:N	2.14	0.57
39:B1:98:LEU:O	39:B1:100:VAL:N	2.37	0.57
41:BS:107:LEU:H	41:BS:107:LEU:HD22	1.68	0.57
46:BZ:5:CYS:CB	46:BZ:8:SER:HG	2.18	0.57
47:BW:10:LEU:HD13	47:BW:59:ARG:HD2	1.86	0.57
47:BW:17:SER:HB3	47:BW:21:LEU:H	1.67	0.57
1:CA:1542:G:HO3'	18:CU:19:LYS:N	2.02	0.57
2:CE:12:GLU:O	2:CE:16:HIS:ND1	2.36	0.57
3:CF:105:GLU:HG2	3:CF:106:VAL:N	2.18	0.57
4:CG:156:GLU:O	4:CG:160:GLN:HG3	2.03	0.57
6:CI:99:ALA:O	6:CI:100:ASN:HB2	2.04	0.57
9:CL:17:VAL:HG13	9:CL:81:ILE:HD13	1.85	0.57
12:CO:33:ARG:O	12:CO:85:ILE:HG22	2.03	0.57
12:CO:83:VAL:HG22	12:CO:84:LEU:H	1.70	0.57
16:CS:75:ARG:C	16:CS:77:ALA:H	2.11	0.57
18:CU:25:THR:C	18:CU:26:LEU:HD23	2.29	0.57
24:DA:319:C:O2'	24:DA:320:A:H5'	2.04	0.57
24:DA:869:G:O2'	24:DA:870:A:H5'	2.04	0.57
24:DA:881:G:N3	22:CB:20:G:O6	2.37	0.57
24:DA:1021:A:C8	24:DA:1022:G:H5"	2.39	0.57
24:DA:2139:C:O2'	24:DA:2140:C:H5'	2.05	0.57
24:DA:2506:U:O2'	24:DA:2507:C:H5'	2.02	0.57
24:DA:2518:A:H4'	24:DA:2519:U:OP1	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2712:U:H2'	24:DA:2712(A):A:O5'	2.02	0.57
24:DA:2784:C:H5"	27:DE:41:LYS:HZ3	1.69	0.57
24:DA:2795:G:N2	24:DA:2801:A:N7	2.51	0.57
27:DE:41:LYS:HE2	27:DE:41:LYS:HA	1.86	0.57
27:DE:116:VAL:CG2	27:DE:122:PHE:CD2	2.86	0.57
30:DH:76:VAL:C	30:DH:78:GLY:H	2.13	0.57
30:DH:127:GLU:HG2	30:DH:128:PRO:CG	2.33	0.57
37:DQ:26:LEU:CD2	37:DQ:87:PHE:HD1	2.17	0.57
37:DQ:106:ARG:O	37:DQ:107:GLU:HB2	2.04	0.57
38:DR:82:LEU:HD12	38:DR:82:LEU:N	2.19	0.57
40:D2:78:LYS:O	40:D2:79:VAL:HB	2.03	0.57
46:DZ:86:SER:H	46:DZ:87:PRO:CD	2.16	0.57
1:AA:376:G:H5"	16:AS:5:ARG:HB2	1.87	0.57
2:AE:143:GLU:O	2:AE:147:LYS:HD3	2.04	0.57
3:AF:130:VAL:O	3:AF:134:ILE:HG12	2.04	0.57
4:AG:16:GLY:O	4:AG:17:VAL:C	2.47	0.57
4:AG:24:GLU:CA	4:AG:27:TYR:HB3	2.35	0.57
4:AG:191:ARG:HH11	4:AG:191:ARG:HG2	1.68	0.57
6:AI:12:PRO:HG3	6:AI:57:GLN:O	2.05	0.57
8:AK:9:MET:HG3	8:AK:26:VAL:HG21	1.86	0.57
9:AL:18:PHE:O	9:AL:19:LEU:HB2	2.03	0.57
13:AP:118:ALA:HB1	22:AC:29:G:H5'	1.84	0.57
17:AT:80:GLY:O	17:AT:81:ARG:HB2	2.05	0.57
17:AT:81:ARG:NH2	17:AT:84:LEU:HD11	2.20	0.57
23:A1:13:A:N3	23:A1:13:A:O5'	2.37	0.57
24:BA:140:A:C8	24:BA:1408:C:O2'	2.56	0.57
24:BA:528:A:H2	24:BA:2043:C:H5'	1.69	0.57
24:BA:1257:C:H4'	28:BF:83:PHE:CD2	2.39	0.57
24:BA:1608:A:O2'	24:BA:1610:A:P	2.62	0.57
24:BA:1827:C:C2'	24:BA:1828:G:H5'	2.34	0.57
24:BA:1962:C:H6	24:BA:1962:C:OP2	1.87	0.57
24:BA:2299:G:N1	24:BA:2318:G:C8	2.73	0.57
24:BA:2310:A:H62	29:BG:79:ASN:HD22	1.53	0.57
24:BA:2425:A:H5"	24:BA:2426:A:H3'	1.86	0.57
24:BA:2839:G:H2'	24:BA:2840:C:C6	2.39	0.57
25:BB:83:G:O2'	25:BB:84:C:H5'	2.05	0.57
27:BE:35:GLN:N	27:BE:48:GLN:HE21	2.00	0.57
27:BE:195:LEU:HD12	27:BE:196:VAL:H	1.69	0.57
29:BG:60:LEU:O	29:BG:64:THR:HG22	2.04	0.57
30:BH:152:ARG:C	30:BH:154:PRO:HD3	2.29	0.57
31:BK:4:ILE:HD11	31:BK:44:LEU:HD23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:7:GLU:HG3	31:BK:8:PRO:HD2	1.86	0.57
31:BK:110:ASP:OD1	31:BK:130:TYR:CE1	2.58	0.57
32:BM:18:ALA:HB1	32:BM:57:ALA:HA	1.87	0.57
34:BO:36:LYS:NZ	34:BO:36:LYS:CB	2.57	0.57
35:BP:22:LYS:C	35:BP:22:LYS:HE3	2.29	0.57
36:B0:23:ASN:N	36:B0:23:ASN:HD22	2.02	0.57
39:B1:81:HIS:CD2	39:B1:117:GLN:HE21	2.14	0.57
39:B1:92:ARG:HB3	40:B2:11:GLN:NE2	2.19	0.57
44:BV:117:LEU:C	44:BV:118:GLN:NE2	2.62	0.57
1:CA:865:A:C2	1:CA:918:A:H4'	2.39	0.57
1:CA:957:U:H1'	1:CA:960:U:C5	2.38	0.57
1:CA:1002:G:H2'	1:CA:1003:G:H5'	1.86	0.57
1:CA:1119:C:O2'	1:CA:1120:G:H5'	2.04	0.57
2:CE:106:LYS:O	2:CE:110:GLN:HG3	2.05	0.57
3:CF:14:ILE:HG12	3:CF:15:THR:N	2.19	0.57
4:CG:33:MET:HE2	4:CG:37:PRO:HA	1.86	0.57
10:CM:3:LYS:O	10:CM:100:THR:HG22	2.04	0.57
15:CR:6:GLU:CD	15:CR:6:GLU:H	2.12	0.57
24:DA:120:U:H1'	24:DA:149:A:N7	2.18	0.57
24:DA:1364:G:C8	46:DZ:2:SER:N	2.72	0.57
24:DA:1391:U:H2'	24:DA:1393:A:OP2	2.05	0.57
24:DA:1533:C:H2'	24:DA:1534:G:C8	2.39	0.57
24:DA:1946:U:C2	24:DA:1947:C:C5	2.92	0.57
24:DA:2348:U:O4	24:DA:2382:G:C2	2.58	0.57
24:DA:2405:G:O2'	24:DA:2406:U:OP2	2.22	0.57
26:DD:35:LYS:HG2	26:DD:64:ILE:CA	2.34	0.57
29:DG:63:ILE:HD11	29:DG:102:PHE:HE2	1.69	0.57
29:DG:107:LEU:HD11	29:DG:178:PHE:CE1	2.40	0.57
29:DG:125:PHE:C	29:DG:127:GLY:H	2.12	0.57
30:DH:3:ARG:HA	30:DH:3:ARG:HE	1.69	0.57
31:DK:73:GLU:OE1	31:DK:137:PRO:HD2	2.04	0.57
32:DM:14:VAL:HG12	32:DM:15:LEU:H	1.69	0.57
33:DN:96:THR:O	33:DN:97:ARG:HB3	2.04	0.57
36:D0:56:LYS:C	36:D0:58:GLY:N	2.61	0.57
44:DV:152:ALA:HB2	44:DV:170:THR:H	1.69	0.57
48:DX:4:LEU:O	48:DX:36:VAL:HA	2.04	0.57
1:AA:397:A:H5'	1:AA:398:C:OP1	2.05	0.57
1:AA:467:G:H21	16:AS:82:GLN:NE2	2.02	0.57
1:AA:652:U:H1'	1:AA:653:A:H2	1.70	0.57
1:AA:1162:C:O2'	1:AA:1163:C:H5'	2.04	0.57
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:17:PHE:HB3	2:AE:42:ILE:HG12	1.87	0.57
2:AE:107:THR:HA	2:AE:110:GLN:HG3	1.86	0.57
2:AE:121:LEU:HD13	2:AE:127:ILE:HD11	1.86	0.57
2:AE:200:ILE:HG22	2:AE:201:ILE:N	2.19	0.57
3:AF:4:LYS:HZ2	3:AF:4:LYS:C	2.13	0.57
3:AF:93:LYS:O	3:AF:94:LEU:HB3	2.04	0.57
7:AJ:57:GLU:N	7:AJ:57:GLU:OE1	2.38	0.57
7:AJ:76:ARG:HH11	7:AJ:78:ARG:NH1	1.97	0.57
9:AL:40:LEU:HB3	9:AL:43:ALA:HB2	1.86	0.57
13:AP:67:GLU:O	13:AP:69:GLU:N	2.37	0.57
19:AV:19:VAL:HG12	19:AV:20:LEU:N	2.19	0.57
22:AC:6:G:O2'	22:AC:7:G:H5'	2.05	0.57
24:BA:91:A:H2'	24:BA:92:G:O4'	2.04	0.57
24:BA:517:C:OP1	50:B5:16:ARG:NH2	2.37	0.57
24:BA:1021:A:H3'	24:BA:1021:A:C8	2.39	0.57
24:BA:1139:G:O2'	24:BA:1143:A:N6	2.28	0.57
24:BA:1161:C:H1'	40:B2:8:GLY:O	2.04	0.57
24:BA:1204:A:C2'	24:BA:1205:U:OP2	2.52	0.57
24:BA:1236:G:C4'	24:BA:1237:A:OP1	2.52	0.57
24:BA:1322:A:OP1	41:BS:11:ARG:HG3	2.05	0.57
24:BA:1925:C:H3'	24:BA:1925:C:H6	1.60	0.57
26:BD:25:THR:CG2	26:BD:82:ILE:H	2.16	0.57
27:BE:60:ASN:O	27:BE:61:ARG:CB	2.51	0.57
27:BE:81:ILE:O	27:BE:82:ARG:CB	2.53	0.57
30:BH:44:VAL:CG2	30:BH:51:ARG:HH11	2.14	0.57
31:BK:131:LYS:HA	31:BK:132:PRO:O	2.05	0.57
33:BN:13:ASN:C	33:BN:15:GLY:N	2.60	0.57
35:BP:81:VAL:CG1	35:BP:82:ARG:NH1	2.68	0.57
39:B1:80:ILE:HG22	39:B1:80:ILE:O	2.03	0.57
40:B2:61:VAL:CG1	40:B2:62:LEU:H	2.09	0.57
43:BU:15:VAL:O	43:BU:22:GLY:CA	2.52	0.57
47:BW:7:ARG:NH1	47:BW:7:ARG:HB3	2.18	0.57
1:CA:134:A:N6	16:CS:25:ARG:NH1	2.52	0.57
1:CA:552:U:O2'	1:CA:553:A:H5'	2.04	0.57
1:CA:1234:C:C4'	1:CA:1364:U:O2'	2.53	0.57
1:CA:1347:G:H2'	1:CA:1348:U:OP2	2.04	0.57
2:CE:187:LEU:CD1	2:CE:205:ASP:HA	2.33	0.57
5:CH:78:HIS:HA	8:CK:105:ARG:HB2	1.86	0.57
5:CH:148:VAL:HG21	8:CK:107:LEU:HD13	1.86	0.57
6:CI:69:GLU:C	6:CI:71:ARG:H	2.13	0.57
7:CJ:121:ALA:O	7:CJ:125:MET:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:21:ILE:HD12	11:CN:21:ILE:N	2.20	0.57
11:CN:29:ILE:HG13	11:CN:43:SER:O	2.04	0.57
16:CS:76:GLN:HG2	16:CS:76:GLN:O	2.05	0.57
19:CV:15:LEU:N	19:CV:15:LEU:HD23	2.19	0.57
20:CW:37:SER:HB3	20:CW:84:LEU:HD23	1.85	0.57
22:CC:11:A:H4'	24:DA:1909:C:O2'	2.05	0.57
24:DA:165:U:H2'	24:DA:165:U:O2	2.03	0.57
24:DA:1818:U:O2'	24:DA:1819:A:OP2	2.21	0.57
24:DA:2030:A:H4'	24:DA:2031:A:H8	1.68	0.57
24:DA:2173:A:H2'	24:DA:2174:C:O4'	2.05	0.57
24:DA:2213:U:H1'	46:DZ:52:ARG:CZ	2.34	0.57
24:DA:2316:C:H1'	29:DG:128:ARG:HH22	1.69	0.57
25:DB:38:C:H42	25:DB:44:G:H1	1.51	0.57
25:DB:42:C:N4	29:DG:91:ARG:HH21	2.03	0.57
27:DE:152:LYS:HG2	32:DM:78:TYR:CE1	2.39	0.57
31:DK:1:MET:HG3	31:DK:23:PRO:HB3	1.85	0.57
31:DK:4:ILE:HG12	31:DK:18:VAL:CG2	2.25	0.57
31:DK:52:ARG:HH11	31:DK:52:ARG:HB3	1.69	0.57
31:DK:99:GLU:OE2	31:DK:103:ARG:NH2	2.36	0.57
33:DN:20:MET:O	33:DN:41:ALA:HB1	2.04	0.57
37:DQ:67:ARG:NH1	37:DQ:67:ARG:CB	2.64	0.57
37:DQ:67:ARG:CB	37:DQ:67:ARG:HH11	2.17	0.57
44:DV:154:ASP:O	44:DV:157:LEU:HD13	2.03	0.57
49:D4:39:CYS:O	49:D4:40:HIS:HB2	2.03	0.57
50:D5:50:GLY:O	50:D5:51:TYR:HB2	2.03	0.57
53:D8:46:ARG:O	53:D8:47:LYS:HB3	2.03	0.57
1:AA:88:C:H2'	1:AA:89:U:O4'	2.04	0.57
1:AA:299:G:H2'	1:AA:300:A:C8	2.39	0.57
1:AA:399:G:H2'	1:AA:400:C:C6	2.39	0.57
1:AA:954:G:N2	1:AA:1227:A:H62	1.82	0.57
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.22	0.57
2:AE:15:VAL:HG22	2:AE:15:VAL:O	2.03	0.57
3:AF:22:TRP:CB	3:AF:59:ARG:HB2	2.35	0.57
4:AG:50:ARG:HH12	5:AH:10:MET:HE3	1.68	0.57
8:AK:51:VAL:O	8:AK:52:ASP:HB2	2.02	0.57
9:AL:25:LYS:HB3	9:AL:57:GLY:CA	2.35	0.57
13:AP:4:ILE:CD1	13:AP:19:LEU:HD13	2.34	0.57
15:AR:81:LEU:HD11	15:AR:85:LEU:HD12	1.87	0.57
22:AD:17(A):C:H5'	22:AD:18:G:OP2	2.05	0.57
22:AD:60:U:P	22:AD:61:C:H41	2.27	0.57
24:BA:107:C:H2'	24:BA:108:U:H6	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:407:G:H2'	24:BA:408:G:H8	1.70	0.57
24:BA:863:A:H2'	24:BA:864:G:H8	1.69	0.57
24:BA:887:A:C3'	24:BA:888:C:H5'	2.34	0.57
24:BA:890:A:H3'	24:BA:892:G:H8	1.65	0.57
24:BA:945:A:C4	24:BA:2448:A:C2	2.93	0.57
24:BA:1348:G:C2'	24:BA:1349:A:H5"	2.34	0.57
24:BA:1401:G:H2'	24:BA:1402:C:O4'	2.04	0.57
24:BA:1410:G:H2'	24:BA:1411:C:C6	2.40	0.57
24:BA:2021:C:H5"	24:BA:2022:U:OP2	2.05	0.57
24:BA:2469:A:OP2	24:BA:2476:A:N3	2.37	0.57
24:BA:2808:U:C2'	24:BA:2809:A:H5'	2.34	0.57
28:BF:78:ILE:HA	28:BF:83:PHE:CE1	2.40	0.57
31:BK:92:VAL:HG12	31:BK:97:ILE:HD11	1.86	0.57
31:BK:110:ASP:HB2	31:BK:113:ARG:HB2	1.87	0.57
33:BN:78:ARG:HH21	38:BR:103:ARG:HH21	1.52	0.57
33:BN:86:ILE:HD12	33:BN:86:ILE:N	2.19	0.57
34:BO:90:ARG:HG2	34:BO:91:PHE:HD1	1.69	0.57
34:BO:112:LEU:HD22	34:BO:113:LYS:N	2.20	0.57
37:BQ:88:ASP:O	37:BQ:89:ARG:HB2	2.04	0.57
38:BR:95:ARG:HH11	38:BR:95:ARG:HG3	1.70	0.57
41:BS:10:VAL:O	41:BS:12:ILE:N	2.36	0.57
45:B3:19:LYS:C	45:B3:20:ARG:HG2	2.30	0.57
53:B8:50:LEU:O	53:B8:51:ALA:CB	2.52	0.57
1:CA:195:A:H1'	1:CA:222:U:O2'	2.05	0.57
1:CA:731:G:OP1	1:CA:766:A:H1'	2.04	0.57
1:CA:865:A:H5'	1:CA:1078:U:O4	2.04	0.57
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.39	0.57
2:CE:77:ALA:CB	2:CE:211:ILE:HG21	2.35	0.57
7:CJ:16:LEU:CD1	9:CL:45:ALA:HB2	2.34	0.57
13:CP:77:ASN:HA	49:D4:71:ARG:CZ	2.34	0.57
13:CP:81:LEU:HB3	13:CP:89:GLY:CA	2.34	0.57
24:DA:284:U:H2'	24:DA:285:C:H6	1.69	0.57
24:DA:529:A:N6	24:DA:2041:U:H3	2.03	0.57
24:DA:1534:G:O6	24:DA:1538:G:N2	2.38	0.57
24:DA:2330:G:H2'	24:DA:2331:G:O4'	2.04	0.57
24:DA:2744:G:O2'	24:DA:2745:C:H5'	2.04	0.57
27:DE:203:LYS:HE3	27:DE:204:ALA:HB2	1.87	0.57
31:DK:110:ASP:HB3	31:DK:111:PRO:C	2.29	0.57
32:DM:7:LYS:HG2	32:DM:8:GLN:N	2.20	0.57
33:DN:71:ARG:HH11	33:DN:71:ARG:HG3	1.69	0.57
41:DS:20:VAL:C	41:DS:22:ASP:N	2.59	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:D3:36:ILE:HD13	45:D3:36:ILE:O	2.03	0.57
49:D4:37:SER:HB3	49:D4:42:PHE:CE1	2.38	0.57
1:AA:262:A:H2'	1:AA:263:A:C8	2.39	0.57
1:AA:791:G:C5	1:AA:792:A:N7	2.73	0.57
1:AA:992:U:O4	1:AA:1044:A:N7	2.38	0.57
7:AJ:150:ALA:C	11:AN:57:THR:HG21	2.30	0.57
9:AL:6:GLY:HA3	9:AL:17:VAL:N	2.19	0.57
10:AM:84:GLN:O	10:AM:88:LEU:HB3	2.05	0.57
12:AO:23:LYS:HD3	12:AO:23:LYS:H	1.68	0.57
12:AO:79:GLU:C	12:AO:81:SER:H	2.12	0.57
24:BA:482:A:N6	24:BA:506:G:H2'	2.20	0.57
24:BA:524:U:H2'	24:BA:525:U:C6	2.38	0.57
24:BA:601:C:O2	24:BA:605:C:H4'	2.04	0.57
24:BA:729:G:H2'	24:BA:1775:U:O2	2.05	0.57
24:BA:1192:G:O2'	24:BA:1193:G:H5'	2.05	0.57
24:BA:1196:C:O4'	24:BA:1227:A:C2	2.56	0.57
24:BA:1667:G:H8	24:BA:1667:G:OP2	1.88	0.57
25:BB:76:G:H5'	44:BV:10:ARG:NH2	2.19	0.57
26:BD:262:ARG:O	26:BD:264:LYS:N	2.35	0.57
28:BF:22:ALA:C	28:BF:24:LEU:N	2.62	0.57
28:BF:93:LYS:HB3	28:BF:94:PRO:HD2	1.86	0.57
30:BH:86:GLU:O	30:BH:87:LEU:HG	2.04	0.57
37:BQ:15:ARG:HH11	37:BQ:15:ARG:HG3	1.69	0.57
41:BS:111:HIS:CD2	41:BS:113:LYS:HE3	2.40	0.57
46:BZ:69:LYS:O	46:BZ:72:GLU:HB3	2.04	0.57
47:BW:46:GLN:N	47:BW:49:LYS:NZ	2.47	0.57
50:B5:29:THR:O	50:B5:30:LEU:HD23	2.04	0.57
1:CA:17:U:H2'	1:CA:18:C:H6	1.67	0.57
1:CA:113:G:H2'	1:CA:114:U:H6	1.69	0.57
1:CA:1139:G:H5'	1:CA:1140:C:OP1	2.05	0.57
14:CQ:24:CYS:HB2	14:CQ:39:LEU:C	2.29	0.57
24:DA:222:A:O2'	24:DA:223:A:P	2.63	0.57
24:DA:803:U:H6	24:DA:803:U:C5'	2.15	0.57
24:DA:1258:C:O4'	28:DF:84:VAL:HG11	2.04	0.57
24:DA:2123:G:O2'	24:DA:2124:G:H5'	2.04	0.57
24:DA:2646:C:H2'	24:DA:2647:U:O4'	2.05	0.57
26:DD:25:THR:HG21	26:DD:81:ALA:HB1	1.85	0.57
26:DD:25:THR:HG21	26:DD:82:ILE:H	1.70	0.57
30:DH:2:SER:O	30:DH:3:ARG:C	2.47	0.57
31:DK:6:LEU:HD13	31:DK:36:ALA:CA	2.34	0.57
32:DM:63:THR:HG22	32:DM:66:LYS:NZ	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:D0:32:GLY:O	36:D0:115:GLU:HA	2.04	0.57
37:DQ:5:THR:HG23	37:DQ:8:GLU:OE2	2.05	0.57
45:D3:14:ARG:O	45:D3:15:ASP:HB2	2.05	0.57
45:D3:56:ASP:C	45:D3:56:ASP:OD2	2.47	0.57
48:DX:31:LEU:O	48:DX:32:GLN:HB2	2.04	0.57
49:D4:42:PHE:CG	49:D4:43:TYR:N	2.72	0.57
1:AA:243:A:H4'	1:AA:244:U:C5'	2.35	0.57
1:AA:388:G:O2'	1:AA:389:A:OP2	2.22	0.57
1:AA:995:C:H6	1:AA:995:C:O5'	1.88	0.57
2:AE:17:PHE:HB3	2:AE:42:ILE:CG2	2.32	0.57
2:AE:97:TRP:CH2	2:AE:173:ALA:HA	2.40	0.57
3:AF:131:ARG:HE	3:AF:166:GLU:CD	2.11	0.57
4:AG:10:ARG:HH11	4:AG:10:ARG:HG3	1.70	0.57
5:AH:7:GLU:HG2	5:AH:112:LEU:HD22	1.87	0.57
9:AL:26:VAL:HG21	9:AL:60:ASP:OD1	2.04	0.57
10:AM:99:LYS:HD3	10:AM:100:THR:N	2.18	0.57
13:AP:52:GLU:HG2	13:AP:55:ARG:NH2	2.19	0.57
24:BA:1165:U:H2'	24:BA:1166:C:H6	1.69	0.57
24:BA:1324:G:H4'	24:BA:1616:A:C2	2.40	0.57
24:BA:2168:G:N2	24:BA:2169:A:H3'	2.20	0.57
24:BA:2296:U:C4'	24:BA:2297:C:OP1	2.49	0.57
24:BA:2503:A:O2'	24:BA:2505:G:OP2	2.21	0.57
26:BD:92:ILE:HA	26:BD:107:ALA:H	1.69	0.57
29:BG:14:GLU:C	29:BG:17:PRO:HD2	2.30	0.57
35:BP:20:ALA:O	35:BP:21:THR:C	2.46	0.57
37:BQ:46:VAL:HG12	37:BQ:47:THR:H	1.69	0.57
39:B1:8:VAL:HG23	39:B1:9:VAL:N	2.18	0.57
43:BU:56:PRO:O	43:BU:57:GLN:HB2	2.04	0.57
47:BW:41:ILE:HD11	47:BW:44:LEU:HD12	1.85	0.57
1:CA:1126:U:C5	1:CA:1127:G:C4	2.92	0.57
1:CA:1233:G:H2'	1:CA:1234:C:C6	2.39	0.57
4:CG:100:ARG:HH22	4:CG:137:SER:HB3	1.70	0.57
5:CH:140:ARG:HH11	5:CH:140:ARG:CB	2.17	0.57
10:CM:64:GLU:OE2	10:CM:66:ARG:HD2	2.05	0.57
13:CP:49:THR:HB	13:CP:52:GLU:HG3	1.86	0.57
17:CT:32:TYR:O	17:CT:34:LYS:N	2.37	0.57
24:DA:587:C:OP2	34:DO:21:ARG:NH2	2.38	0.57
24:DA:1937:A:O2'	24:DA:1938:A:C5'	2.52	0.57
24:DA:2635:C:H5"	27:DE:78:LEU:HA	1.86	0.57
24:DA:2745:C:H1'	30:DH:143:GLN:HG2	1.87	0.57
24:DA:2860:A:C8	24:DA:2861:G:H1'	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:28:GLU:O	26:DD:29:PRO:C	2.45	0.57
31:DK:116:LEU:HD11	31:DK:119:PRO:HG3	1.85	0.57
32:DM:133:GLN:O	32:DM:134:ARG:CB	2.53	0.57
39:D1:52:ARG:HG2	39:D1:52:ARG:NH1	2.17	0.57
45:D3:24:LYS:O	45:D3:25:ARG:HD3	2.05	0.57
50:D5:55:ARG:NH1	50:D5:58:LEU:HD11	2.19	0.57
1:AA:160:A:C1'	1:AA:344:A:N7	2.64	0.57
1:AA:636:U:H2'	1:AA:637:G:C8	2.40	0.57
1:AA:748:C:H1'	1:AA:749:C:C5	2.40	0.57
5:AH:41:VAL:O	5:AH:66:MET:HA	2.05	0.57
12:AO:62:SER:HB2	12:AO:64:TYR:CD1	2.39	0.57
15:AR:38:ARG:HH11	15:AR:38:ARG:HG2	1.70	0.57
24:BA:38:A:N3	28:BF:48:THR:HB	2.20	0.57
24:BA:820:A:O2'	24:BA:821:A:H5'	2.05	0.57
24:BA:1308:A:H2'	24:BA:1309:G:O4'	2.05	0.57
24:BA:1754:C:OP2	38:BR:113:LYS:HE3	2.05	0.57
24:BA:1955:U:O2'	24:BA:1956:U:OP1	2.19	0.57
24:BA:2147:G:H2'	24:BA:2148:G:O4'	2.05	0.57
24:BA:2531:A:H4'	30:BH:157:TYR:CE2	2.40	0.57
24:BA:2650:U:H2'	24:BA:2651:C:C6	2.40	0.57
30:BH:33:LEU:O	30:BH:34:GLU:HB3	2.04	0.57
30:BH:89:ILE:HG12	30:BH:90:LYS:N	2.20	0.57
31:BK:76:THR:N	31:BK:77:LEU:HD23	2.18	0.57
32:BM:96:GLU:CD	32:BM:96:GLU:H	2.13	0.57
34:BO:138:LEU:HD12	34:BO:139:LYS:N	2.19	0.57
38:BR:124:ASP:C	38:BR:126:ALA:H	2.12	0.57
39:B1:86:ALA:O	39:B1:88:ILE:HG23	2.05	0.57
44:BV:128:VAL:HG13	44:BV:129:SER:N	2.20	0.57
46:BZ:80:LEU:O	46:BZ:81:LYS:HB3	2.05	0.57
46:BZ:92:LYS:C	46:BZ:93:GLU:HG2	2.30	0.57
49:B4:12:ALA:HA	49:B4:24:THR:CB	2.30	0.57
1:CA:597:G:H2'	1:CA:598:U:H5'	1.87	0.57
1:CA:872:A:HO2'	1:CA:873:A:H3'	1.70	0.57
1:CA:956:U:C2'	1:CA:957:U:H5'	2.34	0.57
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.04	0.57
2:CE:30:ARG:HH21	2:CE:194:PRO:CG	2.17	0.57
3:CF:11:ARG:HH21	3:CF:180:ALA:HB3	1.70	0.57
3:CF:57:ILE:HG23	3:CF:64:VAL:HG13	1.86	0.57
4:CG:22:LYS:CD	4:CG:26:CYS:SG	2.93	0.57
7:CJ:62:PHE:HA	7:CJ:124:LEU:CD2	2.27	0.57
13:CP:69:GLU:O	13:CP:71:ARG:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CQ:29:ARG:HG3	14:CQ:29:ARG:HH11	1.70	0.57
24:DA:471:A:H8	24:DA:471:A:O5'	1.88	0.57
24:DA:738:G:H2'	24:DA:739:G:O4'	2.05	0.57
24:DA:746:A:C5	24:DA:2611:U:H5"	2.39	0.57
24:DA:1537:C:H2'	24:DA:1538:G:C8	2.40	0.57
24:DA:1962:C:O2'	24:DA:1964:G:OP2	2.22	0.57
25:DB:7:G:H3'	25:DB:8:U:C5'	2.31	0.57
25:DB:72:G:N2	25:DB:103:U:C5	2.73	0.57
26:DD:34:VAL:O	26:DD:34:VAL:CG1	2.51	0.57
26:DD:36:PRO:HB2	26:DD:61:LEU:HG	1.87	0.57
28:DF:32:LEU:HD13	28:DF:105:VAL:CG1	2.33	0.57
44:DV:33:LEU:HG	44:DV:34:ASN:N	2.20	0.57
44:DV:157:LEU:N	44:DV:158:PRO:HD3	2.20	0.57
46:DZ:70:VAL:O	46:DZ:74:VAL:HG23	2.05	0.57
1:AA:412:A:O2'	1:AA:413:G:P	2.63	0.57
1:AA:1065:U:O2'	1:AA:1066:C:P	2.63	0.57
1:AA:1152:A:O2'	1:AA:1153:C:H5'	2.04	0.57
11:AN:74:ALA:C	11:AN:76:GLY:H	2.13	0.57
14:AQ:6:LEU:C	14:AQ:8:GLU:H	2.12	0.57
22:AD:11:A:H2'	22:AD:12:G:C8	2.40	0.57
23:A1:7:G:H2'	23:A1:8:A:O5'	2.05	0.57
24:BA:442:G:H4'	24:BA:443:A:OP1	2.04	0.57
24:BA:476:G:H4'	24:BA:502:A:N1	2.20	0.57
24:BA:587:C:OP2	34:BO:21:ARG:NH2	2.38	0.57
24:BA:1022:G:O6	32:BM:66:LYS:CE	2.53	0.57
24:BA:1181:C:O2'	24:BA:1182:A:H5'	2.05	0.57
24:BA:1821:A:H2'	24:BA:1822:G:H5'	1.86	0.57
24:BA:1973:G:H2'	24:BA:1974:C:C6	2.40	0.57
28:BF:51:THR:HG23	28:BF:92:PRO:HG2	1.86	0.57
34:BO:36:LYS:HZ3	34:BO:36:LYS:CB	2.18	0.57
37:BQ:105:ALA:HB3	37:BQ:112:PHE:HE2	1.70	0.57
39:B1:108:GLU:C	39:B1:110:VAL:H	2.13	0.57
44:BV:48:PHE:HE2	44:BV:71:VAL:HG11	1.70	0.57
44:BV:57:ILE:HD12	44:BV:57:ILE:N	2.20	0.57
47:BW:50:ILE:HD12	47:BW:50:ILE:N	2.20	0.57
1:CA:376:G:H5"	16:CS:5:ARG:HB2	1.86	0.57
1:CA:501:C:H2'	1:CA:502:G:H8	1.70	0.57
1:CA:658:G:O2'	1:CA:659:U:H5'	2.04	0.57
1:CA:914:A:O2'	1:CA:915:A:H5'	2.05	0.57
1:CA:1326:C:H2'	1:CA:1327:C:H6	1.70	0.57
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:37:ASN:HD21	9:CL:40:LEU:HD23	1.69	0.57
14:CQ:13:THR:N	14:CQ:14:PRO:CD	2.68	0.57
16:CS:4:ILE:HA	16:CS:20:VAL:O	2.05	0.57
24:DA:71:A:C2	42:DT:31:HIS:HE1	2.23	0.57
24:DA:650:C:OP1	53:D8:48:PHE:CZ	2.58	0.57
24:DA:658:C:H2'	24:DA:659:C:H6	1.70	0.57
24:DA:699:A:H2'	24:DA:700:G:O4'	2.05	0.57
24:DA:887:A:O2'	24:DA:889:C:H1'	2.05	0.57
24:DA:1190:G:H5'	34:DO:32:THR:HA	1.86	0.57
24:DA:1372:U:C6	24:DA:1372:U:C5'	2.88	0.57
24:DA:2150:U:H2'	24:DA:2151:G:H8	1.70	0.57
24:DA:2311:A:H2'	24:DA:2312:U:C5	2.39	0.57
25:DB:30:C:OP2	37:DQ:32:LEU:HD11	2.05	0.57
27:DE:102:VAL:HG13	27:DE:172:VAL:CG2	2.34	0.57
34:DO:59:LEU:HA	34:DO:61:ARG:CZ	2.34	0.57
36:D0:45:ARG:HA	36:D0:95:THR:HG21	1.87	0.57
37:DQ:72:ALA:O	37:DQ:76:LYS:HG3	2.04	0.57
43:DU:21:LYS:HG3	43:DU:22:GLY:H	1.69	0.57
43:DU:97:ARG:O	43:DU:97:ARG:HG2	2.05	0.57
47:DW:31:GLU:O	47:DW:35:LEU:HG	2.05	0.57
49:D4:27:THR:O	49:D4:28:LYS:HB3	2.03	0.57
1:AA:474:G:OP2	16:AS:75:ARG:HD3	2.05	0.56
1:AA:724:G:O2'	1:AA:725:G:H5'	2.03	0.56
1:AA:728:A:H2'	1:AA:729:A:H8	1.67	0.56
1:AA:982:U:H4'	1:AA:983:A:O5'	2.04	0.56
3:AF:162:GLN:NE2	23:A1:24:A:O4'	2.37	0.56
4:AG:179:GLU:O	4:AG:181:MET:HG3	2.05	0.56
7:AJ:99:LEU:HD22	7:AJ:103:TRP:CZ2	2.40	0.56
11:AN:27:ASN:CG	11:AN:28:THR:H	2.12	0.56
19:AV:61:TYR:CE2	19:AV:63:THR:OG1	2.58	0.56
24:BA:747:U:OP2	50:B5:3:LYS:HD2	2.05	0.56
24:BA:997:G:H2'	24:BA:998:C:H5'	1.86	0.56
24:BA:1853:A:H2'	24:BA:1854:A:H8	1.70	0.56
24:BA:2119:A:N1	24:BA:2171:A:H1'	2.20	0.56
24:BA:2656:U:H5	24:BA:2664:G:H21	1.49	0.56
24:BA:2840:C:H4'	36:B0:53:HIS:CD2	2.39	0.56
28:BF:33:LEU:O	28:BF:37:VAL:HG23	2.04	0.56
29:BG:29:TRP:HB3	29:BG:33:ARG:NH1	2.20	0.56
29:BG:170:ARG:O	29:BG:174:GLU:HB2	2.05	0.56
32:BM:131:GLN:NE2	32:BM:132:ALA:H	2.02	0.56
34:BO:94:GLU:HG3	34:BO:124:LYS:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:98:LYS:HA	38:BR:98:LYS:HE3	1.85	0.56
42:BT:12:VAL:HG13	42:BT:27:THR:O	2.04	0.56
44:BV:10:ARG:HG2	44:BV:10:ARG:NH1	2.20	0.56
44:BV:160:GLY:O	44:BV:161:VAL:C	2.48	0.56
49:B4:55:ARG:O	49:B4:59:PHE:HB2	2.05	0.56
51:B6:35:GLU:O	51:B6:36:LEU:HB2	2.04	0.56
1:CA:60:A:O2'	1:CA:61:G:O4'	2.23	0.56
1:CA:328:C:O2'	1:CA:329:A:P	2.60	0.56
1:CA:375:U:H4'	16:CS:17:TYR:CE2	2.39	0.56
1:CA:429:U:O2'	1:CA:430:A:H5"	2.06	0.56
1:CA:520:A:O2'	12:CO:73:GLU:HG2	2.05	0.56
1:CA:1221:G:O3'	19:CV:77:THR:CG2	2.52	0.56
1:CA:1366:C:O2'	1:CA:1367:C:H5'	2.04	0.56
4:CG:50:ARG:O	4:CG:50:ARG:HD2	2.05	0.56
8:CK:49:GLU:HG3	8:CK:51:VAL:CG1	2.35	0.56
11:CN:21:ILE:HG13	11:CN:30:VAL:HG12	1.86	0.56
11:CN:54:ARG:HH12	22:CD:40:C:H5'	1.70	0.56
13:CP:82:MET:O	13:CP:84:ILE:N	2.38	0.56
16:CS:7:ALA:O	16:CS:9:PHE:CD2	2.58	0.56
16:CS:21:VAL:HG22	16:CS:34:GLU:O	2.04	0.56
19:CV:9:VAL:O	19:CV:9:VAL:HG23	2.04	0.56
21:CX:7:ARG:O	21:CX:8:THR:HG23	2.05	0.56
22:CC:50:U:H2'	22:CC:51:C:C6	2.40	0.56
24:DA:894:C:O2'	24:DA:895:U:H5'	2.05	0.56
24:DA:1024:G:OP2	24:DA:1025:G:H3'	2.05	0.56
24:DA:1992:G:N2	24:DA:1996:C:O2'	2.38	0.56
25:DB:80:U:O2'	25:DB:81:G:H5"	2.05	0.56
26:DD:92:ILE:HD12	26:DD:104:TYR:CD2	2.39	0.56
29:DG:34:LEU:C	29:DG:34:LEU:HD13	2.30	0.56
29:DG:39:ILE:CG2	29:DG:155:MET:HG3	2.35	0.56
30:DH:77:LYS:HZ3	30:DH:77:LYS:CB	2.11	0.56
30:DH:84:SER:O	30:DH:133:VAL:O	2.22	0.56
31:DK:64:GLU:HG3	31:DK:67:ARG:NH2	2.20	0.56
39:D1:83:LEU:HD12	39:D1:113:ALA:HB2	1.86	0.56
51:D6:14:THR:O	51:D6:49:HIS:HA	2.05	0.56
52:D7:48:LYS:HG2	52:D7:49:ARG:N	2.19	0.56
22:CB:48:U:O2'	22:CB:49:C:H6	1.87	0.56
1:AA:450:G:H5"	16:AS:41:PRO:O	2.05	0.56
1:AA:1006:C:C4	1:AA:1007:C:N4	2.73	0.56
1:AA:1321:C:C5'	1:AA:1322:C:H5"	2.35	0.56
2:AE:14:GLY:O	2:AE:209:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:64:VAL:O	3:AF:64:VAL:HG23	2.05	0.56
9:AL:27:THR:O	9:AL:28:VAL:HB	2.05	0.56
12:AO:60:LEU:HD21	12:AO:66:VAL:HG22	1.86	0.56
19:AV:47:HIS:O	19:AV:48:THR:HG23	2.04	0.56
20:AW:64:ASP:OD1	20:AW:81:LYS:HE2	2.05	0.56
22:AD:15:G:H3'	22:AD:16:C:O4'	2.05	0.56
24:BA:566:U:OP1	34:BO:29:LYS:CE	2.54	0.56
24:BA:654(R):C:C6	24:BA:654(R):C:C4'	2.82	0.56
24:BA:1043:C:C3'	24:BA:1044:G:H5"	2.36	0.56
24:BA:1504:C:H2'	24:BA:1505:C:C5'	2.35	0.56
24:BA:1585:C:O2'	24:BA:1586:A:OP1	2.19	0.56
24:BA:1586:A:N7	24:BA:1587:A:H1'	2.20	0.56
24:BA:1930:G:O2'	24:BA:1931:U:P	2.63	0.56
24:BA:2458:G:H8	24:BA:2458:G:OP2	1.88	0.56
24:BA:2557:G:H2'	24:BA:2558:C:C6	2.40	0.56
24:BA:2845:G:O2'	24:BA:2846:G:H5'	2.04	0.56
27:BE:201:THR:O	27:BE:202:LYS:HD3	2.04	0.56
28:BF:21:ALA:C	28:BF:23:ASP:N	2.63	0.56
31:BK:14:ASP:N	31:BK:17:GLN:OE1	2.33	0.56
31:BK:15:VAL:HG12	31:BK:16:GLY:N	2.20	0.56
34:BO:146:VAL:HG13	34:BO:147:LEU:N	2.20	0.56
37:BQ:30:ARG:HG2	37:BQ:30:ARG:NH1	2.15	0.56
37:BQ:102:ALA:C	37:BQ:104:GLY:N	2.58	0.56
38:BR:3:ARG:C	38:BR:7:ILE:HG12	2.29	0.56
40:B2:6:LYS:H	40:B2:37:VAL:CG1	2.18	0.56
43:BU:76:CYS:HB3	43:BU:96:ILE:HD11	1.86	0.56
51:B6:8:LYS:HG2	51:B6:8:LYS:O	2.04	0.56
1:CA:93:U:H2'	1:CA:95:G:H5"	1.87	0.56
1:CA:1075:C:H4'	1:CA:1101:A:N6	2.20	0.56
1:CA:1277:C:O2'	1:CA:1279:A:H8	1.88	0.56
1:CA:1371:G:OP1	9:CL:11:LYS:HG2	2.05	0.56
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.40	0.56
1:CA:1460:A:H3'	1:CA:1461:G:H8	1.70	0.56
15:CR:53:HIS:CE1	15:CR:57:LEU:HD11	2.40	0.56
24:DA:84:A:N1	24:DA:98:G:O2'	2.33	0.56
24:DA:530:G:H1'	24:DA:2021:C:O2'	2.04	0.56
24:DA:1166:C:H2'	24:DA:1167:U:C6	2.40	0.56
24:DA:2136:C:H2'	24:DA:2137:C:H6	1.69	0.56
24:DA:2614:A:C4'	24:DA:2615:U:OP1	2.53	0.56
26:DD:58:HIS:HD2	26:DD:59:LYS:O	1.89	0.56
26:DD:69:ARG:HD3	26:DD:105:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:60:LEU:O	29:DG:64:THR:HG22	2.05	0.56
30:DH:125:VAL:HG12	30:DH:126:PRO:CG	2.34	0.56
32:DM:82:LEU:HD12	32:DM:83:LYS:H	1.70	0.56
32:DM:114:ARG:C	32:DM:116:LEU:H	2.13	0.56
35:DP:37:LEU:HD21	35:DP:130:LYS:HE3	1.87	0.56
37:DQ:32:LEU:O	37:DQ:62:LYS:HE2	2.05	0.56
38:DR:134:GLU:O	38:DR:135:ALA:HB3	2.05	0.56
40:D2:76:LYS:O	40:D2:79:VAL:HG12	2.05	0.56
48:DX:7:LYS:NZ	48:DX:32:GLN:HE21	2.03	0.56
1:AA:31:G:O2'	1:AA:32:A:P	2.63	0.56
1:AA:65:U:H5"	1:AA:66:G:OP1	2.05	0.56
1:AA:129(A):G:C6	1:AA:188:U:H4'	2.40	0.56
1:AA:328:C:O2	1:AA:328:C:C2'	2.50	0.56
1:AA:465:A:N7	1:AA:467:G:N7	2.53	0.56
1:AA:954:G:N2	1:AA:1227:A:N6	2.47	0.56
1:AA:1024:G:HO2'	1:AA:1025:U:H6	1.54	0.56
1:AA:1067:A:O2'	1:AA:1068:G:C8	2.59	0.56
1:AA:1148:U:O2'	9:AL:14:VAL:HG11	2.04	0.56
1:AA:1190:G:OP2	3:AF:5:ILE:HG23	2.06	0.56
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.40	0.56
1:AA:1532:U:O2'	1:AA:1533:C:P	2.62	0.56
2:AE:80:ILE:C	2:AE:80:ILE:HD12	2.31	0.56
2:AE:162:ILE:O	2:AE:162:ILE:HG13	2.05	0.56
3:AF:120:VAL:O	3:AF:122:GLU:N	2.38	0.56
4:AG:26:CYS:SG	4:AG:32:ALA:CB	2.89	0.56
4:AG:162:LEU:HD13	4:AG:181:MET:HG2	1.88	0.56
4:AG:199:ASN:CG	4:AG:202:LEU:HG	2.30	0.56
5:AH:32:VAL:HG12	5:AH:33:VAL:N	2.21	0.56
8:AK:29:SER:HB3	8:AK:32:LYS:CG	2.35	0.56
10:AM:6:ILE:CD1	10:AM:23:ILE:HG21	2.36	0.56
14:AQ:9:LYS:HA	14:AQ:12:ARG:HB3	1.87	0.56
14:AQ:12:ARG:NH1	14:AQ:14:PRO:HD2	2.20	0.56
22:AC:20:U:H2'	22:AC:20:U:O2	2.03	0.56
23:A1:10:G:H2'	23:A1:11:U:C6	2.40	0.56
24:BA:19:C:H2'	24:BA:20:C:H6	1.69	0.56
24:BA:90:U:O2'	24:BA:91:A:H5"	2.05	0.56
24:BA:820:A:H1'	24:BA:943:U:O2'	2.05	0.56
24:BA:871:U:O2	24:BA:871:U:C2'	2.51	0.56
24:BA:1678:G:N2	24:BA:1989:G:N2	2.53	0.56
24:BA:1694:C:O2'	24:BA:1695:G:OP2	2.17	0.56
24:BA:1899:G:H21	24:BA:1902:C:H5	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2001:A:H2'	24:BA:2002:G:C8	2.40	0.56
24:BA:2393:A:H4'	34:BO:62:LEU:N	2.20	0.56
24:BA:2720:U:H2'	24:BA:2721:A:H8	1.69	0.56
24:BA:2786:U:H4'	27:BE:64:LYS:HA	1.87	0.56
24:BA:2790:A:C2'	24:BA:2791:C:H5"	2.26	0.56
24:BA:2870:C:C2'	24:BA:2871:C:H5'	2.34	0.56
25:BB:34:U:H5"	25:BB:35:U:OP1	2.05	0.56
26:BD:67:PHE:CD2	26:BD:153:ALA:HB3	2.41	0.56
26:BD:76:PRO:HA	26:BD:118:VAL:HG23	1.86	0.56
26:BD:142:VAL:HG22	26:BD:143:HIS:N	2.20	0.56
27:BE:61:ARG:C	27:BE:63:LEU:N	2.55	0.56
29:BG:4:ASP:O	29:BG:8:LYS:HD3	2.04	0.56
29:BG:60:LEU:O	29:BG:63:ILE:HG12	2.05	0.56
29:BG:60:LEU:HD23	29:BG:60:LEU:C	2.30	0.56
31:BK:62:LYS:HD2	31:BK:62:LYS:C	2.29	0.56
31:BK:81:VAL:HG12	31:BK:82:ARG:H	1.70	0.56
32:BM:127:ASP:C	32:BM:128:HIS:HD1	2.13	0.56
33:BN:43:VAL:CG2	33:BN:56:ASP:HB2	2.35	0.56
33:BN:88:ASN:ND2	33:BN:90:GLN:H	2.03	0.56
34:BO:59:LEU:HD13	34:BO:60:MET:H	1.71	0.56
43:BU:17:SER:OG	43:BU:18:GLY:N	2.38	0.56
45:B3:25:ARG:HG3	45:B3:25:ARG:NH1	2.21	0.56
51:B6:41:PRO:O	51:B6:42:TRP:CB	2.52	0.56
1:CA:50:A:O2'	1:CA:51:A:P	2.63	0.56
1:CA:56:U:H2'	1:CA:57:G:C8	2.40	0.56
1:CA:57:G:H2'	1:CA:58:C:H6	1.70	0.56
1:CA:89:U:H2'	1:CA:90:C:H6	1.70	0.56
1:CA:194:C:C2'	1:CA:195:A:H5"	2.35	0.56
1:CA:688:G:H2'	1:CA:689:C:C6	2.40	0.56
1:CA:890:G:O2'	1:CA:891:U:P	2.63	0.56
1:CA:976:G:H2'	1:CA:1362:C:N4	2.20	0.56
1:CA:1203:C:OP1	14:CQ:3:ARG:HD2	2.06	0.56
2:CE:60:ASP:HB3	2:CE:64:ARG:CZ	2.34	0.56
2:CE:80:ILE:CG2	2:CE:212:GLN:HA	2.35	0.56
3:CF:7:PRO:O	3:CF:11:ARG:HG2	2.05	0.56
3:CF:90:GLU:O	3:CF:94:LEU:HG	2.05	0.56
3:CF:180:ALA:O	3:CF:181:ASN:HB3	2.06	0.56
4:CG:11:LEU:O	4:CG:13:ARG:N	2.37	0.56
4:CG:42:GLN:HG2	4:CG:42:GLN:O	2.05	0.56
5:CH:78:HIS:CE1	5:CH:143:ARG:H	2.20	0.56
6:CI:91:VAL:CG1	18:CU:72:ARG:HH12	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:18:TYR:HD2	7:CJ:59:LEU:HD22	1.70	0.56
7:CJ:42:ILE:O	7:CJ:117:ALA:HB2	2.05	0.56
8:CK:38:ILE:HD12	8:CK:118:VAL:HG12	1.87	0.56
9:CL:10:ARG:CD	9:CL:105:ASP:HB2	2.35	0.56
10:CM:49:VAL:HG21	14:CQ:41:ARG:HB2	1.87	0.56
10:CM:94:VAL:HG12	10:CM:95:GLU:N	2.19	0.56
11:CN:32:ILE:O	11:CN:40:ILE:HG12	2.04	0.56
21:CX:6:ARG:HH21	21:CX:15:ARG:HE	1.53	0.56
22:CD:37:A:H2'	22:CD:38:A:O4'	2.04	0.56
24:DA:52:A:O2'	24:DA:53:A:H5'	2.06	0.56
24:DA:185:U:H4'	24:DA:218:A:H4'	1.86	0.56
24:DA:264:C:O2'	24:DA:265:A:H5"	2.05	0.56
24:DA:576:U:O5'	24:DA:576:U:H6	1.88	0.56
24:DA:637:A:HO2'	24:DA:638:G:P	2.29	0.56
24:DA:653:A:H5"	24:DA:654:A:OP2	2.05	0.56
24:DA:655:A:H2'	24:DA:656:G:H5'	1.86	0.56
24:DA:1042:G:N2	24:DA:1113:U:O2	2.39	0.56
24:DA:1046:A:N3	24:DA:1046:A:C3'	2.62	0.56
24:DA:2018:G:H2'	24:DA:2019:A:C8	2.40	0.56
24:DA:2115:G:C2	24:DA:2164:C:OP2	2.58	0.56
24:DA:2779:U:H1'	24:DA:2781:A:C4	2.40	0.56
24:DA:2875:C:C4'	38:DR:5:ALA:HB2	2.35	0.56
25:DB:34:U:OP2	29:DG:2:PRO:HG2	2.05	0.56
26:DD:183:ARG:HD2	26:DD:270:ILE:HG12	1.88	0.56
26:DD:236:GLY:O	26:DD:237:GLU:OE1	2.24	0.56
31:DK:83:ALA:O	31:DK:84:GLY:C	2.48	0.56
33:DN:3:GLN:CB	33:DN:4:PRO:HD2	2.35	0.56
37:DQ:103:GLU:O	37:DQ:106:ARG:CG	2.53	0.56
39:D1:68:ALA:O	39:D1:71:GLN:HB2	2.04	0.56
39:D1:104:GLN:OE1	39:D1:104:GLN:N	2.35	0.56
42:DT:35:THR:HG22	42:DT:38:GLU:OE1	2.05	0.56
43:DU:75:ILE:C	43:DU:75:ILE:HD13	2.30	0.56
44:DV:58:VAL:O	44:DV:60:GLU:N	2.36	0.56
47:DW:17:SER:HB2	47:DW:18:PRO:HA	1.86	0.56
49:D4:15:ILE:HG22	49:D4:20:ASN:HA	1.86	0.56
52:D7:38:GLY:O	52:D7:39:ARG:C	2.48	0.56
53:D8:50:LEU:HD12	53:D8:51:ALA:H	1.70	0.56
1:AA:47:C:H5"	1:AA:48:C:OP1	2.06	0.56
1:AA:60:A:N6	1:AA:110:C:N3	2.53	0.56
1:AA:189:U:O2	17:AT:63:ARG:NH1	2.38	0.56
1:AA:191(F):U:H2'	1:AA:191:G:C5'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1055:A:N6	1:AA:1200:C:N3	2.53	0.56
1:AA:1062:U:H2'	1:AA:1063:C:C5	2.39	0.56
1:AA:1127:G:H4'	1:AA:1148:U:O2	2.06	0.56
1:AA:1316:G:H2'	1:AA:1318:A:OP2	2.05	0.56
2:AE:178:ARG:NH2	8:AK:69:ARG:O	2.37	0.56
4:AG:12:CYS:HA	4:AG:21:LEU:HD23	1.83	0.56
5:AH:10:MET:HG3	5:AH:32:VAL:HG22	1.86	0.56
7:AJ:5:ARG:C	7:AJ:7:ALA:H	2.14	0.56
9:AL:19:LEU:HD22	9:AL:59:PHE:CB	2.35	0.56
12:AO:11:VAL:HG21	17:AT:34:LYS:HD3	1.86	0.56
16:AS:15:PRO:HB3	16:AS:17:TYR:CE1	2.38	0.56
18:AU:84:LYS:HE2	18:AU:84:LYS:N	2.20	0.56
20:AW:26:ASN:HD22	20:AW:27:LYS:N	2.03	0.56
22:AC:1:C:O2	22:AC:1:C:C2'	2.53	0.56
24:BA:12:U:H2'	24:BA:12:U:O2	2.04	0.56
24:BA:278:A:H2'	24:BA:279:C:O5'	2.06	0.56
24:BA:352:G:O2'	24:BA:353:G:OP1	2.21	0.56
24:BA:1142(A):A:C8	24:BA:1144:G:N7	2.73	0.56
24:BA:1171:G:H3'	24:BA:1171:G:OP2	2.04	0.56
24:BA:2192:G:C2'	24:BA:2193:G:H5"	2.34	0.56
24:BA:2748:A:N7	24:BA:2757:A:C6	2.73	0.56
24:BA:2755:C:H4'	24:BA:2756:U:H5	1.69	0.56
27:BE:66:HIS:C	27:BE:68:ALA:N	2.61	0.56
27:BE:112:GLY:O	27:BE:159:HIS:HA	2.06	0.56
30:BH:40:GLU:CG	30:BH:41:MET:HE2	2.32	0.56
30:BH:102:ALA:CA	30:BH:117:PRO:HD3	2.35	0.56
34:BO:14:LYS:O	34:BO:16:ARG:N	2.38	0.56
38:BR:58:ASN:HD22	38:BR:58:ASN:C	2.14	0.56
42:BT:12:VAL:HG13	42:BT:27:THR:HG23	1.86	0.56
53:B8:25:MET:HE3	53:B8:25:MET:CA	2.35	0.56
1:CA:97:U:O4	1:CA:99:C:N4	2.37	0.56
1:CA:1300:G:O2'	1:CA:1301:U:P	2.63	0.56
2:CE:55:PHE:HA	2:CE:58:ILE:HB	1.88	0.56
2:CE:102:LEU:HB3	2:CE:180:LEU:CD1	2.36	0.56
6:CI:97:PHE:O	18:CU:31:LEU:HD23	2.04	0.56
22:CD:67:C:H2'	22:CD:68:C:C6	2.40	0.56
24:DA:404:C:O2'	24:DA:405:U:OP2	2.21	0.56
24:DA:594:U:H5'	53:D8:61:LEU:CD2	2.35	0.56
24:DA:1668:A:H61	24:DA:1676:A:N6	2.04	0.56
24:DA:1712:C:H2'	24:DA:1716:U:O4'	2.05	0.56
24:DA:1931:U:H5"	24:DA:1932:A:OP2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2474:C:H5”	24:DA:2475:C:H5	1.69	0.56
24:DA:2891:G:H5’	24:DA:2892:A:P	2.45	0.56
25:DB:78:A:C2	25:DB:99:A:C4	2.93	0.56
26:DD:2:ALA:O	26:DD:3:VAL:HB	2.06	0.56
27:DE:32:PRO:O	27:DE:34:VAL:HG13	2.06	0.56
28:DF:118:ALA:O	28:DF:121:GLY:N	2.33	0.56
29:DG:128:ARG:HG3	29:DG:128:ARG:NH2	2.17	0.56
32:DM:112:LEU:O	32:DM:114:ARG:O	2.23	0.56
35:DP:79:LEU:O	35:DP:79:LEU:CG	2.52	0.56
46:DZ:89:GLU:O	46:DZ:93:GLU:HB2	2.04	0.56
52:D7:12:ARG:NH2	52:D7:44:PRO:HB3	2.21	0.56
1:AA:881:G:P	12:AO:12:ARG:HH22	2.29	0.56
1:AA:971:G:N2	1:AA:1363:A:OP2	2.39	0.56
1:AA:1305:G:N2	1:AA:1331:G:C2’	2.57	0.56
2:AE:55:PHE:HA	2:AE:58:ILE:CG1	2.32	0.56
6:AI:10:LEU:HD23	6:AI:84:ASN:O	2.04	0.56
6:AI:63:TYR:HD2	6:AI:63:TYR:N	2.04	0.56
9:AL:28:VAL:CB	9:AL:63:ILE:H	2.19	0.56
11:AN:124:LYS:HD2	11:AN:125:PHE:CE1	2.39	0.56
12:AO:55:VAL:HG12	12:AO:56:ALA:H	1.71	0.56
13:AP:13:LYS:O	13:AP:45:VAL:HG21	2.05	0.56
15:AR:10:LYS:HA	15:AR:10:LYS:HE3	1.88	0.56
18:AU:32:ARG:O	18:AU:32:ARG:HG3	2.05	0.56
22:AD:60:U:O2’	22:AD:61:C:OP1	2.23	0.56
24:BA:329:G:N7	43:BU:19:LYS:CG	2.67	0.56
24:BA:1412:A:H2’	24:BA:1413:G:H8	1.70	0.56
24:BA:1495:A:O2’	24:BA:1496:A:H5’	2.05	0.56
24:BA:2656:U:C6	24:BA:2656:U:C3’	2.88	0.56
24:BA:2753:A:C3’	24:BA:2754:U:H5”	2.35	0.56
24:BA:2853:C:O2’	24:BA:2854:G:H5’	2.05	0.56
26:BD:27:THR:O	26:BD:28:GLU:HB2	2.04	0.56
26:BD:111:LEU:HD22	26:BD:115:GLN:HE22	1.70	0.56
26:BD:227:ASN:O	26:BD:228:PRO:C	2.48	0.56
27:BE:105:THR:HG21	27:BE:164:ARG:NH1	2.20	0.56
28:BF:110:LEU:HD11	28:BF:205:ARG:HH21	1.69	0.56
31:BK:29:TYR:HE1	31:BK:33:ARG:HE	1.54	0.56
41:BS:21:VAL:HG22	41:BS:47:VAL:HG21	1.87	0.56
47:BW:10:LEU:O	47:BW:14:ARG:HB2	2.05	0.56
1:CA:16:A:C2’	1:CA:17:U:H5’	2.35	0.56
1:CA:397:A:H5”	1:CA:397:A:N3	2.20	0.56
1:CA:971:G:H5”	1:CA:972:C:H5”	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1319:A:N1	1:CA:1361:G:N2	2.48	0.56
1:CA:1410:G:H2'	1:CA:1411:C:H6	1.69	0.56
1:CA:1503:A:O2'	1:CA:1504:G:P	2.64	0.56
3:CF:59:ARG:HH12	3:CF:97:LYS:HE3	1.70	0.56
5:CH:82:VAL:CG1	5:CH:83:GLU:N	2.68	0.56
8:CK:77:GLU:HG2	8:CK:78:GLN:H	1.70	0.56
9:CL:33:PHE:CE2	9:CL:47:LEU:HD21	2.40	0.56
12:CO:79:GLU:HG2	12:CO:79:GLU:O	2.05	0.56
12:CO:111:LYS:O	12:CO:112:ASP:HB2	2.06	0.56
24:DA:270(B):A:H8	24:DA:270(C):C:C5	2.24	0.56
24:DA:278:A:H2'	24:DA:279:C:H6	1.70	0.56
24:DA:862:G:H2'	24:DA:863:A:O4'	2.05	0.56
24:DA:1360:A:N1	24:DA:1372:U:C4	2.74	0.56
24:DA:2599:G:OP2	26:DD:236:GLY:CA	2.53	0.56
24:DA:2867:G:C2'	24:DA:2868:A:OP2	2.54	0.56
27:DE:183:LEU:HD12	27:DE:183:LEU:N	2.20	0.56
34:DO:115:LEU:HD12	34:DO:116:GLY:N	2.21	0.56
38:DR:26:ASP:CB	38:DR:91:ARG:HA	2.36	0.56
40:D2:75:PHE:C	40:D2:75:PHE:CD1	2.83	0.56
43:DU:94:LYS:HE3	43:DU:101:LYS:HZ3	1.70	0.56
43:DU:95:LYS:O	43:DU:95:LYS:HE3	2.06	0.56
1:AA:735:C:O2'	1:AA:736:C:H5'	2.06	0.56
1:AA:947:G:O3'	13:AP:109:THR:OG1	2.24	0.56
1:AA:1002:G:H5'	1:AA:1003:G:OP2	2.06	0.56
1:AA:1145:C:H5'	1:AA:1146:A:OP1	2.05	0.56
3:AF:18:TRP:H	3:AF:18:TRP:HE3	1.53	0.56
3:AF:181:ASN:O	3:AF:181:ASN:CG	2.48	0.56
6:AI:47:ARG:HH11	6:AI:47:ARG:CB	2.19	0.56
7:AJ:80:VAL:HG13	7:AJ:85:TYR:CE1	2.40	0.56
10:AM:6:ILE:HG22	10:AM:98:ILE:HG13	1.87	0.56
13:AP:94:ARG:CG	13:AP:96:LEU:HG	2.35	0.56
15:AR:27:VAL:O	15:AR:31:LEU:HD13	2.06	0.56
22:AC:64:G:O2'	22:AC:65:C:H5'	2.05	0.56
24:BA:661:C:H1'	34:BO:12:ALA:HA	1.87	0.56
24:BA:910:A:H62	35:BP:12:GLN:HA	1.70	0.56
24:BA:999:U:H2'	24:BA:1000:A:H5'	1.87	0.56
24:BA:1097:U:H2'	24:BA:1098:A:O4'	2.04	0.56
24:BA:1558:A:O2'	24:BA:1559:G:P	2.64	0.56
24:BA:1821:A:C2'	24:BA:1822:G:H5"	2.36	0.56
24:BA:2263:C:O2'	24:BA:2264:C:H5'	2.05	0.56
27:BE:38:THR:CG2	27:BE:40:GLU:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:81:ILE:O	27:BE:82:ARG:HB3	2.06	0.56
29:BG:131:TYR:O	29:BG:159:VAL:HG12	2.04	0.56
31:BK:79:ILE:C	31:BK:142:VAL:HG21	2.30	0.56
31:BK:87:LYS:HD2	1:CA:359:U:P	2.46	0.56
32:BM:24:GLY:O	32:BM:27:ALA:HB3	2.05	0.56
35:BP:77:LYS:HZ2	35:BP:82:ARG:HB3	1.66	0.56
44:BV:94:GLU:HB3	44:BV:95:PRO:HD3	1.85	0.56
1:CA:686:U:O2	1:CA:704:A:N6	2.39	0.56
1:CA:1072:G:H2'	1:CA:1073:U:O4'	2.06	0.56
3:CF:113:ALA:C	3:CF:115:LEU:H	2.14	0.56
4:CG:119:GLN:HG3	4:CG:123:HIS:CD2	2.40	0.56
7:CJ:148:ASN:N	7:CJ:148:ASN:ND2	2.46	0.56
10:CM:24:VAL:HG21	10:CM:37:PRO:HG3	1.86	0.56
10:CM:35:SER:O	10:CM:72:VAL:HG13	2.05	0.56
11:CN:34:ASP:N	11:CN:40:ILE:HD11	2.21	0.56
19:CV:65:ASN:N	19:CV:65:ASN:ND2	2.52	0.56
20:CW:82:SER:O	20:CW:86:ARG:HB2	2.05	0.56
24:DA:165:U:O2	24:DA:165:U:C2'	2.53	0.56
24:DA:357:A:O2'	24:DA:358:U:H5'	2.06	0.56
24:DA:859:G:C2'	24:DA:860:U:OP2	2.53	0.56
24:DA:1071:G:H8	24:DA:1071:G:O5'	1.88	0.56
24:DA:1858:G:H2'	24:DA:1883:G:H22	1.71	0.56
24:DA:2163:C:H2'	24:DA:2164:C:C6	2.40	0.56
24:DA:2487:G:O2'	24:DA:2488:A:H5'	2.06	0.56
27:DE:77:ILE:O	27:DE:78:LEU:C	2.48	0.56
28:DF:155:LEU:CD1	28:DF:174:VAL:HG13	2.32	0.56
30:DH:6:ARG:C	30:DH:8:PRO:HD2	2.30	0.56
34:DO:59:LEU:HD23	34:DO:59:LEU:O	2.06	0.56
37:DQ:5:THR:OG1	37:DQ:7:TYR:HB3	2.06	0.56
47:DW:41:ILE:HD11	47:DW:44:LEU:CG	2.36	0.56
51:D6:6:ARG:O	51:D6:8:LYS:HD2	2.05	0.56
51:D6:11:LEU:HD23	51:D6:26:ASN:HB3	1.87	0.56
1:AA:16:A:N1	1:AA:919:A:H2	2.04	0.56
1:AA:107:G:C2'	1:AA:108:G:H5'	2.35	0.56
1:AA:267:C:P	17:AT:67:LYS:HB2	2.45	0.56
1:AA:468:A:H2'	1:AA:474:G:H5'	1.87	0.56
1:AA:706:A:H4'	11:AN:29:ILE:HD11	1.88	0.56
1:AA:762:C:H2'	1:AA:763:G:H8	1.71	0.56
1:AA:983:A:N1	1:AA:1222:G:N2	2.48	0.56
2:AE:165:VAL:HG23	2:AE:166:ASP:H	1.69	0.56
4:AG:119:GLN:HG2	4:AG:123:HIS:HD2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AJ:57:GLU:CD	7:AJ:57:GLU:H	2.13	0.56
8:AK:118:VAL:O	8:AK:119:LEU:HD23	2.06	0.56
9:AL:66:ARG:HB3	9:AL:66:ARG:HH11	1.71	0.56
12:AO:90:VAL:O	12:AO:92:ASP:N	2.38	0.56
15:AR:32:LEU:O	15:AR:36:ILE:HG13	2.06	0.56
24:BA:19:C:H2'	24:BA:20:C:C6	2.39	0.56
24:BA:180:G:OP2	52:B7:32:LYS:HE2	2.06	0.56
24:BA:270(P):C:H2'	24:BA:270(Q):C:H6	1.69	0.56
24:BA:299:A:N1	24:BA:322:A:H2'	2.21	0.56
24:BA:559:G:H22	39:B1:49:HIS:CD2	2.24	0.56
24:BA:839:U:H2'	24:BA:840:C:C6	2.40	0.56
24:BA:1124:C:H2'	24:BA:1125:G:O4'	2.06	0.56
24:BA:1246:A:C5'	34:BO:15:ARG:HH22	2.18	0.56
24:BA:2127:G:C2	24:BA:2128:C:H1'	2.41	0.56
24:BA:2331:G:O2'	45:B3:43:THR:HG22	2.05	0.56
24:BA:2387:U:H5'	24:BA:2388:A:OP2	2.06	0.56
24:BA:2447:G:O2'	24:BA:2448:A:OP2	2.18	0.56
24:BA:2728:U:O2'	24:BA:2729:G:H5'	2.06	0.56
26:BD:112:GLN:O	26:BD:115:GLN:HB3	2.06	0.56
26:BD:179:SER:C	26:BD:181:GLU:H	2.13	0.56
27:BE:81:ILE:HG21	27:BE:84:PHE:HD1	1.71	0.56
29:BG:144:ILE:HG22	29:BG:146:TYR:H	1.70	0.56
30:BH:61:HIS:O	30:BH:62:LYS:C	2.49	0.56
31:BK:76:THR:O	31:BK:77:LEU:C	2.48	0.56
32:BM:39:ARG:HH21	32:BM:41:ASP:HB3	1.70	0.56
35:BP:77:LYS:HZ3	35:BP:82:ARG:C	2.14	0.56
35:BP:88:GLY:C	35:BP:89:ASN:CG	2.72	0.56
39:B1:97:ASP:O	39:B1:98:LEU:O	2.22	0.56
39:B1:105:VAL:HG23	39:B1:106:PHE:N	2.20	0.56
42:BT:9:LEU:HD12	42:BT:30:VAL:C	2.31	0.56
1:CA:373:A:N6	1:CA:391:G:N3	2.52	0.56
1:CA:707:C:H2'	1:CA:708:C:H6	1.70	0.56
1:CA:1126:U:H1'	1:CA:1280:A:C5	2.40	0.56
1:CA:1330:U:C3'	1:CA:1331:G:O4'	2.52	0.56
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.41	0.56
2:CE:169:LYS:O	2:CE:169:LYS:HD3	2.05	0.56
3:CF:77:ILE:O	3:CF:83:ARG:HB3	2.05	0.56
4:CG:165:MET:HA	4:CG:165:MET:CE	2.36	0.56
8:CK:7:ALA:HB2	8:CK:85:ARG:HD3	1.87	0.56
13:CP:56:LEU:HD13	13:CP:60:VAL:HG23	1.86	0.56
13:CP:89:GLY:O	13:CP:92:HIS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CU:85:LEU:HD23	18:CU:88:LYS:HD2	1.86	0.56
22:CC:31:G:H2'	22:CC:32:C:H6	1.71	0.56
24:DA:1005:C:O2'	32:DM:28:THR:HG21	2.06	0.56
24:DA:1050:A:O2'	24:DA:2752:C:H1'	2.05	0.56
24:DA:1105:U:H2'	24:DA:1106:G:H8	1.71	0.56
24:DA:1212:G:O2'	24:DA:1236:G:N2	2.38	0.56
24:DA:1791:A:OP2	24:DA:1791:A:C8	2.59	0.56
24:DA:2506:U:O2	24:DA:2506:U:C2'	2.54	0.56
24:DA:2849:U:O2	24:DA:2867:G:H1'	2.05	0.56
26:DD:259:THR:O	26:DD:260:ARG:C	2.49	0.56
27:DE:37:ARG:NE	27:DE:37:ARG:N	2.54	0.56
27:DE:74:PRO:HG2	27:DE:77:ILE:HG23	1.87	0.56
28:DF:197:ASP:O	28:DF:199:TRP:N	2.38	0.56
31:DK:52:ARG:HH11	31:DK:52:ARG:CB	2.19	0.56
32:DM:40:PRO:HB3	39:D1:68:ALA:HB2	1.86	0.56
37:DQ:14:VAL:HG13	37:DQ:15:ARG:N	2.21	0.56
44:DV:108:PRO:C	44:DV:110:GLY:H	2.13	0.56
44:DV:123:ASP:N	44:DV:123:ASP:OD2	2.39	0.56
22:CB:24:C:H5'	22:CB:24:C:H6	1.70	0.56
1:AA:579:G:H2'	1:AA:580:U:H6	1.70	0.56
1:AA:1201:A:O2'	1:AA:1202:G:OP2	2.23	0.56
1:AA:1346:A:O2'	1:AA:1347:G:P	2.64	0.56
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.54	0.56
2:AE:121:LEU:HB3	2:AE:127:ILE:HD11	1.87	0.56
2:AE:184:VAL:O	2:AE:198:ASP:HB2	2.06	0.56
2:AE:207:ALA:O	2:AE:211:ILE:HG13	2.06	0.56
3:AF:164:ARG:HG2	3:AF:165:THR:H	1.70	0.56
9:AL:38:GLN:C	9:AL:40:LEU:N	2.64	0.56
9:AL:102:LEU:HD23	9:AL:103:THR:N	2.19	0.56
10:AM:28:ARG:HG3	10:AM:28:ARG:HH11	1.71	0.56
13:AP:37:THR:HB	13:AP:39:ILE:HD11	1.88	0.56
13:AP:118:ALA:HB1	22:AC:28:C:O2'	2.05	0.56
15:AR:64:ARG:HH11	15:AR:64:ARG:CG	2.19	0.56
16:AS:22:THR:OG1	16:AS:23:ASP:N	2.38	0.56
18:AU:18:ARG:C	18:AU:20:ALA:H	2.13	0.56
19:AV:64:GLU:CG	19:AV:65:ASN:H	2.19	0.56
20:AW:50:GLU:HG3	20:AW:51:GLU:N	2.21	0.56
24:BA:270(E):G:H2'	24:BA:270(F):U:O4'	2.05	0.56
24:BA:1667:G:OP2	24:BA:1667:G:O4'	2.24	0.56
24:BA:2171:A:H2'	24:BA:2172:U:C6	2.41	0.56
24:BA:2346:A:H1'	24:BA:2383:G:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2735:G:H2'	24:BA:2736:G:H8	1.70	0.56
26:BD:159:ALA:N	26:BD:196:VAL:HG11	2.20	0.56
27:BE:4:ILE:HD12	27:BE:28:ALA:CB	2.35	0.56
28:BF:29:ASN:N	28:BF:112:MET:HE1	2.21	0.56
28:BF:34:TRP:CD2	34:BO:8:PRO:HB3	2.39	0.56
28:BF:68:LYS:O	28:BF:69:HIS:CB	2.54	0.56
29:BG:4:ASP:OD1	29:BG:9:ARG:HD2	2.06	0.56
34:BO:64:LYS:HE3	53:B8:30:ARG:NH2	2.17	0.56
38:BR:50:ILE:HA	38:BR:99:LEU:CD1	2.36	0.56
1:CA:188:U:C2'	1:CA:189:U:H5"	2.33	0.56
1:CA:342:C:H2'	1:CA:343:U:O4'	2.04	0.56
1:CA:484:G:O2'	1:CA:485:G:OP2	2.23	0.56
1:CA:508:C:H5"	1:CA:509:A:OP1	2.04	0.56
1:CA:992:U:H4'	1:CA:993:G:O5'	2.05	0.56
4:CG:25:ARG:NH1	4:CG:30:LYS:HG3	2.20	0.56
7:CJ:20:ASP:HB3	7:CJ:23:VAL:HG23	1.88	0.56
11:CN:69:ALA:HB1	11:CN:103:LEU:CD2	2.35	0.56
19:CV:17:GLU:HA	19:CV:20:LEU:HD12	1.86	0.56
20:CW:9:ASN:C	20:CW:9:ASN:HD22	2.14	0.56
22:CD:68:C:H2'	22:CD:69:C:C6	2.39	0.56
24:DA:90:U:H4'	24:DA:91:A:O5'	2.04	0.56
24:DA:654(S):G:C2	24:DA:654(T):A:C4	2.94	0.56
24:DA:747:U:H6	24:DA:747:U:O5'	1.88	0.56
24:DA:930:U:O4'	24:DA:930:U:O2	2.23	0.56
24:DA:1683:C:H2'	24:DA:1684:C:C6	2.40	0.56
24:DA:2182:G:H2'	24:DA:2183:C:H6	1.70	0.56
24:DA:2870:C:H5"	36:D0:65:LEU:HD21	1.88	0.56
25:DB:71:C:C2	25:DB:72:G:C8	2.94	0.56
26:DD:35:LYS:CE	26:DD:104:TYR:HB2	2.35	0.56
27:DE:195:LEU:HD12	27:DE:196:VAL:H	1.71	0.56
31:DK:70:GLU:HA	31:DK:70:GLU:OE1	2.05	0.56
32:DM:56:ASN:N	32:DM:125:GLY:O	2.35	0.56
34:DO:19:VAL:CG2	34:DO:20:GLY:H	1.98	0.56
34:DO:31:ALA:C	34:DO:32:THR:HG23	2.31	0.56
44:DV:53:ILE:CG2	44:DV:71:VAL:HG13	2.36	0.56
44:DV:120:ILE:HD11	44:DV:169:GLU:HG3	1.85	0.56
49:D4:50:VAL:O	49:D4:51:ASP:C	2.48	0.56
51:D6:48:VAL:HG13	51:D6:49:HIS:N	2.20	0.56
52:D7:13:ALA:O	52:D7:17:GLY:HA3	2.05	0.56
1:AA:345:C:H5'	38:BR:41:ARG:NH2	2.20	0.56
1:AA:487:A:H2'	1:AA:488:C:O4'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:792:A:C8	1:AA:794:A:N6	2.74	0.56
3:AF:129:ALA:HB3	3:AF:132:ARG:CZ	2.35	0.56
9:AL:33:PHE:HE2	9:AL:44:VAL:HA	1.70	0.56
13:AP:9:ILE:HD13	13:AP:9:ILE:H	1.70	0.56
13:AP:108:ARG:NH2	13:AP:114:ARG:HG2	2.21	0.56
15:AR:75:PRO:O	15:AR:79:ARG:HG3	2.06	0.56
21:AX:8:THR:O	21:AX:12:LYS:HB2	2.06	0.56
24:BA:613:U:O2	24:BA:613:U:O4'	2.22	0.56
24:BA:857:C:H1'	45:B3:26:TYR:CE2	2.41	0.56
24:BA:1348:G:H2'	24:BA:1349:A:H5'	1.88	0.56
24:BA:2481:G:HO2'	24:BA:2482:G:P	2.28	0.56
24:BA:2712:U:O2'	24:BA:2712(A):A:H3'	2.05	0.56
24:BA:2844:G:H3'	24:BA:2845:G:C8	2.41	0.56
26:BD:35:LYS:HD3	26:BD:63:ARG:CB	2.36	0.56
26:BD:155:LEU:HD12	26:BD:155:LEU:N	2.21	0.56
30:BH:102:ALA:HB2	30:BH:117:PRO:HD3	1.87	0.56
30:BH:131:VAL:CG2	30:BH:132:ARG:N	2.69	0.56
30:BH:157:TYR:O	30:BH:170:ARG:HB3	2.06	0.56
31:BK:77:LEU:HD23	31:BK:77:LEU:N	2.20	0.56
35:BP:35:VAL:HG13	35:BP:130:LYS:HB3	1.87	0.56
35:BP:87:LYS:HE3	45:B3:7:LEU:CD1	2.36	0.56
40:B2:82:ARG:HG3	40:B2:82:ARG:NH1	2.21	0.56
43:BU:84:ARG:NH2	43:BU:97:ARG:HB2	2.14	0.56
44:BV:132:ASN:C	44:BV:133:ILE:HD12	2.31	0.56
45:B3:40:GLN:NE2	45:B3:45:PHE:HB2	2.18	0.56
53:B8:40:GLU:N	53:B8:43:GLN:HG3	2.19	0.56
1:CA:149:A:H4'	1:CA:1450:U:O4	2.06	0.56
1:CA:606:G:H1	1:CA:631:G:C5'	2.18	0.56
1:CA:1028(B):C:N4	1:CA:1029:G:H1'	2.21	0.56
1:CA:1067:A:H4'	1:CA:1068:G:O5'	2.05	0.56
1:CA:1320:C:C4	19:CV:36:ARG:HG3	2.41	0.56
2:CE:7:VAL:HG22	2:CE:8:LYS:N	2.21	0.56
2:CE:68:ILE:HD12	2:CE:68:ILE:N	2.21	0.56
2:CE:217:ARG:HA	2:CE:220:ASP:OD2	2.06	0.56
4:CG:110:PHE:CE2	4:CG:148:VAL:HG23	2.41	0.56
7:CJ:62:PHE:O	7:CJ:66:VAL:HG23	2.06	0.56
8:CK:82:HIS:HD2	8:CK:83:ILE:N	2.03	0.56
10:CM:26:ALA:HA	10:CM:29:ARG:NH2	2.21	0.56
11:CN:125:PHE:HD1	11:CN:125:PHE:H	1.54	0.56
16:CS:53:VAL:HG23	16:CS:54:GLU:H	1.70	0.56
24:DA:210:C:OP2	52:D7:29:LYS:NZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:845:G:OP2	24:DA:845:G:H8	1.89	0.56
24:DA:1316:U:H2'	24:DA:1317:A:H8	1.70	0.56
24:DA:1372:U:H5'	24:DA:1372:U:H6	1.71	0.56
24:DA:1557:C:H5"	24:DA:1558:A:OP2	2.06	0.56
24:DA:1684:C:O2'	24:DA:1685:C:H5'	2.05	0.56
24:DA:1820:U:C2	26:DD:202:LYS:HB3	2.41	0.56
24:DA:2111:C:N3	24:DA:2118:U:O2'	2.38	0.56
24:DA:2168:G:H2'	24:DA:2168:G:N3	2.21	0.56
24:DA:2564:A:OP1	24:DA:2648:C:H4'	2.05	0.56
29:DG:120:LEU:HB3	29:DG:131:TYR:OH	2.05	0.56
30:DH:126:PRO:CG	30:DH:127:GLU:N	2.65	0.56
31:DK:56:LYS:C	31:DK:56:LYS:HD2	2.31	0.56
42:DT:18:TYR:C	42:DT:20:GLY:N	2.64	0.56
49:D4:41:PRO:O	49:D4:42:PHE:CB	2.53	0.56
49:D4:48:ARG:O	49:D4:50:VAL:N	2.38	0.56
1:AA:8:A:C6	4:AG:209:ARG:HB2	2.40	0.56
1:AA:121:C:H5'	1:AA:122:G:OP1	2.05	0.56
1:AA:723:U:O2	1:AA:723:U:C2'	2.54	0.56
1:AA:1129:C:H5'	1:AA:1130:A:H5'	1.88	0.56
1:AA:1226:C:H5"	13:AP:96:LEU:HD11	1.88	0.56
1:AA:1502:A:H2'	1:AA:1502:A:N3	2.21	0.56
2:AE:62:ALA:O	2:AE:64:ARG:N	2.39	0.56
4:AG:34:GLU:O	4:AG:35:ARG:HD3	2.06	0.56
5:AH:104:ALA:O	5:AH:107:ARG:HB3	2.06	0.56
10:AM:45:ARG:HD3	10:AM:65:LEU:HD23	1.86	0.56
11:AN:13:GLN:O	11:AN:14:VAL:HG13	2.05	0.56
13:AP:115:LYS:O	13:AP:116:THR:HB	2.06	0.56
15:AR:55:GLY:O	15:AR:59:MET:HG3	2.06	0.56
24:BA:278:A:C2'	24:BA:279:C:O5'	2.54	0.56
24:BA:329:G:O6	43:BU:19:LYS:HG2	2.05	0.56
24:BA:622:G:C2'	24:BA:623:G:H5'	2.36	0.56
24:BA:1225:C:C4'	40:B2:85:LYS:HB2	2.36	0.56
24:BA:1359:A:H2'	24:BA:1360:A:O4'	2.06	0.56
24:BA:1762:A:H4'	24:BA:1763:G:OP2	2.05	0.56
24:BA:1820:U:C4	26:BD:160:GLY:HA3	2.40	0.56
24:BA:2051:A:H2'	24:BA:2614:A:N6	2.21	0.56
24:BA:2094:G:P	31:BK:22:LYS:HD2	2.46	0.56
24:BA:2233:U:H2'	24:BA:2234:G:C8	2.41	0.56
24:BA:2287:A:H2	24:BA:2346:A:C2	2.24	0.56
24:BA:2319:G:H2'	24:BA:2319:G:N3	2.21	0.56
24:BA:2336:A:H61	45:B3:43:THR:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2409:G:H2'	24:BA:2410:G:O4'	2.07	0.56
25:BB:54:G:H21	29:BG:29:TRP:HZ2	1.52	0.56
26:BD:25:THR:HG23	26:BD:26:LYS:H	1.71	0.56
26:BD:43:ARG:HH11	26:BD:44:ASN:CG	2.14	0.56
28:BF:29:ASN:O	28:BF:112:MET:HE1	2.06	0.56
30:BH:89:ILE:CD1	30:BH:129:THR:HB	2.33	0.56
34:BO:59:LEU:CD2	34:BO:60:MET:H	2.19	0.56
34:BO:97:PRO:C	34:BO:98:GLU:HG3	2.31	0.56
39:B1:50:ARG:HH11	40:B2:72:VAL:CG2	2.15	0.56
39:B1:92:ARG:HH22	40:B2:10:LYS:HA	1.70	0.56
39:B1:101:ARG:O	39:B1:102:GLU:HG2	2.06	0.56
41:BS:28:SER:OG	41:BS:31:GLU:HB3	2.04	0.56
42:BT:44:GLU:HG2	42:BT:49:VAL:O	2.06	0.56
46:BZ:95:LEU:O	46:BZ:96:LYS:CB	2.54	0.56
47:BW:15:LYS:HE3	47:BW:67:LYS:HE2	1.88	0.56
53:B8:49:VAL:C	53:B8:50:LEU:HG	2.30	0.56
1:CA:50:A:O2'	1:CA:52:G:C8	2.59	0.56
1:CA:113:G:H2'	1:CA:114:U:C6	2.41	0.56
1:CA:453:A:H62	1:CA:479:C:N4	2.04	0.56
1:CA:936:C:H2'	1:CA:937:A:O4'	2.06	0.56
1:CA:1234:C:H1'	1:CA:1364:U:O2	2.05	0.56
1:CA:1346:A:C5'	9:CL:120:ARG:HH12	2.19	0.56
1:CA:1533:C:O2'	1:CA:1534:A:H5"	2.05	0.56
1:CA:1535:C:C2'	1:CA:1536:C:OP1	2.54	0.56
2:CE:96:ARG:H	2:CE:96:ARG:CD	2.16	0.56
3:CF:63:ASN:HB3	3:CF:98:ASN:HD22	1.70	0.56
3:CF:114:PRO:O	3:CF:118:GLN:HG3	2.06	0.56
4:CG:107:ARG:C	4:CG:109:GLY:H	2.14	0.56
7:CJ:11:GLN:C	7:CJ:12:LEU:HD22	2.31	0.56
8:CK:102:ARG:NH1	8:CK:105:ARG:NH2	2.54	0.56
9:CL:17:VAL:CG1	9:CL:81:ILE:HD13	2.35	0.56
13:CP:9:ILE:HD12	13:CP:9:ILE:C	2.31	0.56
13:CP:84:ILE:CG2	13:CP:85:GLY:N	2.68	0.56
24:DA:415:A:H2'	24:DA:416:C:H6	1.70	0.56
24:DA:1485:G:O2'	24:DA:1486:A:H5'	2.06	0.56
24:DA:2118:U:H5"	24:DA:2119:A:OP1	2.06	0.56
24:DA:2553:G:H3'	24:DA:2554:U:H5"	1.87	0.56
39:D1:105:VAL:HA	40:D2:44:LYS:HE3	1.88	0.56
44:DV:27:VAL:HG12	44:DV:87:ASP:HB3	1.87	0.56
44:DV:44:PHE:CE2	44:DV:86:VAL:HG11	2.41	0.56
47:DW:43:GLN:O	47:DW:44:LEU:CG	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:20:ARG:C	50:D5:22:HIS:H	2.14	0.56
1:AA:570:G:C6	1:AA:873:A:C2	2.93	0.55
1:AA:678:U:H2'	1:AA:679:C:H6	1.70	0.55
1:AA:792:A:H2'	1:AA:794:A:C6	2.37	0.55
1:AA:1005:A:OP2	1:AA:1005:A:N3	2.38	0.55
1:AA:1067:A:O2'	1:AA:1068:G:OP2	2.24	0.55
3:AF:15:THR:HG23	3:AF:16:ARG:HH12	1.70	0.55
3:AF:122:GLU:C	3:AF:124:ILE:H	2.13	0.55
3:AF:178:LEU:O	3:AF:180:ALA:N	2.33	0.55
10:AM:50:ILE:HA	10:AM:60:ARG:HD3	1.87	0.55
19:AV:63:THR:HG22	19:AV:63:THR:O	2.06	0.55
24:BA:65:C:H4'	42:BT:69:TYR:CD1	2.41	0.55
24:BA:2634:G:O3'	27:BE:77:ILE:HG21	2.06	0.55
28:BF:18:ARG:HH22	28:BF:20:LEU:HD12	1.67	0.55
28:BF:24:LEU:CB	28:BF:25:PRO:HD2	2.37	0.55
28:BF:150:GLY:HA2	28:BF:172:TRP:CD2	2.41	0.55
30:BH:144:VAL:O	30:BH:145:ALA:C	2.48	0.55
30:BH:156:ALA:HB3	30:BH:159:GLU:O	2.05	0.55
31:BK:58:LEU:O	31:BK:62:LYS:HB3	2.06	0.55
32:BM:137:LYS:HA	32:BM:137:LYS:NZ	2.20	0.55
35:BP:35:VAL:HG23	35:BP:101:ARG:O	2.07	0.55
43:BU:81:LYS:HD3	43:BU:97:ARG:CZ	2.35	0.55
43:BU:84:ARG:HH21	43:BU:97:ARG:CB	2.12	0.55
44:BV:48:PHE:CZ	44:BV:74:VAL:HG21	2.41	0.55
44:BV:53:ILE:CG2	44:BV:71:VAL:HG13	2.36	0.55
44:BV:104:PHE:CD2	44:BV:107:THR:HG22	2.41	0.55
51:B6:47:THR:CG2	51:B6:48:VAL:N	2.69	0.55
53:B8:22:VAL:O	53:B8:49:VAL:HA	2.06	0.55
1:CA:31:G:H2'	1:CA:48:C:N4	2.21	0.55
1:CA:194:C:H2'	1:CA:195:A:H5"	1.87	0.55
1:CA:373:A:H2'	1:CA:374:A:H8	1.71	0.55
3:CF:188:LEU:O	3:CF:189:ALA:HB2	2.05	0.55
4:CG:13:ARG:NH2	4:CG:36:ARG:NH2	2.53	0.55
4:CG:52:SER:O	4:CG:53:ASP:C	2.49	0.55
5:CH:92:LYS:O	5:CH:118:ILE:HD12	2.06	0.55
5:CH:107:ARG:O	5:CH:108:ALA:C	2.49	0.55
8:CK:128:GLY:O	8:CK:129:VAL:HG13	2.06	0.55
11:CN:41:THR:HG21	11:CN:71:LYS:CB	2.36	0.55
12:CO:58:VAL:O	12:CO:65:GLU:HA	2.06	0.55
17:CT:6:LEU:O	17:CT:58:GLU:HA	2.05	0.55
19:CV:40:ILE:HG12	19:CV:41:VAL:N	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CX:6:ARG:O	21:CX:8:THR:N	2.39	0.55
24:DA:483:A:C5'	43:DU:49:VAL:HG13	2.35	0.55
24:DA:991:C:H5'	24:DA:991:C:H6	1.70	0.55
24:DA:1449(A):G:H2'	24:DA:1450:C:H6	1.70	0.55
24:DA:2423:U:O2	24:DA:2425:A:C2	2.59	0.55
24:DA:2439:A:C8	24:DA:2439:A:C5'	2.87	0.55
24:DA:2455:G:H2'	24:DA:2456:C:C6	2.41	0.55
24:DA:2835:A:C4'	24:DA:2836:U:OP1	2.53	0.55
27:DE:64:LYS:C	27:DE:66:HIS:H	2.12	0.55
29:DG:135:LEU:HD12	29:DG:135:LEU:N	2.21	0.55
32:DM:112:LEU:HD23	32:DM:112:LEU:C	2.30	0.55
34:DO:14:LYS:O	34:DO:16:ARG:N	2.39	0.55
37:DQ:18:ILE:C	37:DQ:19:LYS:O	2.44	0.55
43:DU:62:GLU:O	43:DU:63:LYS:O	2.24	0.55
44:DV:33:LEU:HD12	44:DV:34:ASN:H	1.70	0.55
44:DV:38:TYR:O	44:DV:38:TYR:CG	2.59	0.55
44:DV:107:THR:CB	44:DV:144:LEU:HB2	2.32	0.55
47:DW:15:LYS:H	47:DW:67:LYS:NZ	2.02	0.55
48:DX:59:VAL:CG1	48:DX:60:GLU:N	2.69	0.55
1:AA:274:A:O2'	1:AA:275:G:C8	2.57	0.55
1:AA:1067:A:O2'	1:AA:1068:G:H8	1.90	0.55
1:AA:1190:G:P	3:AF:5:ILE:HD12	2.46	0.55
2:AE:7:VAL:HG13	2:AE:8:LYS:N	2.21	0.55
2:AE:233:SER:OG	2:AE:234:PRO:HD2	2.06	0.55
6:AI:52:ILE:HD13	6:AI:87:ARG:CZ	2.36	0.55
12:AO:29:GLY:O	12:AO:30:ALA:C	2.48	0.55
13:AP:48:LEU:O	13:AP:49:THR:C	2.49	0.55
24:BA:723:G:H2'	24:BA:724:U:H6	1.69	0.55
24:BA:945:A:O2'	24:BA:946:G:H4'	2.06	0.55
24:BA:1059:G:H2'	24:BA:1060:U:C5	2.40	0.55
24:BA:1085:A:H2'	24:BA:1086:A:N7	2.20	0.55
24:BA:1225:C:H4'	40:B2:85:LYS:CB	2.37	0.55
24:BA:1359:A:C2	24:BA:1360:A:H1'	2.41	0.55
24:BA:1389:G:H2'	24:BA:1390:U:O4'	2.06	0.55
24:BA:2184:G:O2'	24:BA:2185:C:H5'	2.06	0.55
24:BA:2258:C:H4'	24:BA:2259:G:OP2	2.05	0.55
24:BA:2321:G:H2'	24:BA:2321:G:N3	2.20	0.55
25:BB:12:C:C4'	25:BB:13:A:OP1	2.53	0.55
25:BB:55:U:H1'	29:BG:29:TRP:HE1	1.71	0.55
26:BD:186:HIS:HD2	26:BD:188:GLU:H	1.52	0.55
27:BE:25:VAL:HG12	27:BE:26:ILE:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:33:VAL:O	27:BE:33:VAL:HG13	2.06	0.55
27:BE:38:THR:HG22	27:BE:41:LYS:N	2.21	0.55
28:BF:25:PRO:C	28:BF:27:GLU:H	2.13	0.55
28:BF:29:ASN:N	28:BF:112:MET:CE	2.69	0.55
28:BF:165:ARG:HH11	28:BF:165:ARG:CB	2.13	0.55
29:BG:104:GLU:O	29:BG:108:ASN:HB2	2.06	0.55
31:BK:26:ALA:HA	31:BK:30:LEU:HB2	1.87	0.55
32:BM:98:VAL:HG23	32:BM:99:LEU:H	1.71	0.55
33:BN:101:PRO:HA	33:BN:120:GLU:O	2.06	0.55
36:B0:12:ARG:HG3	36:B0:12:ARG:HH11	1.70	0.55
39:B1:6:THR:O	39:B1:9:VAL:HG23	2.07	0.55
39:B1:50:ARG:NH1	40:B2:72:VAL:CG1	2.58	0.55
43:BU:51:VAL:HG22	43:BU:51:VAL:O	2.07	0.55
46:BZ:20:ARG:HH11	46:BZ:20:ARG:HG2	1.71	0.55
1:CA:628:G:O2'	1:CA:629:G:H5'	2.06	0.55
1:CA:687:A:O2'	1:CA:688:G:OP2	2.22	0.55
1:CA:1255:G:O2'	1:CA:1258:G:H1'	2.05	0.55
1:CA:1259:C:N4	1:CA:1260:C:O2	2.39	0.55
1:CA:1541:U:OP1	18:CU:55:ARG:NH2	2.38	0.55
5:CH:144:THR:O	5:CH:148:VAL:HG23	2.06	0.55
6:CI:41:GLU:HG2	6:CI:43:LEU:HD11	1.89	0.55
9:CL:126:SER:O	9:CL:128:ARG:N	2.35	0.55
14:CQ:41:ARG:HH11	14:CQ:41:ARG:HG2	1.71	0.55
19:CV:18:LYS:O	19:CV:22:LEU:HD13	2.06	0.55
24:DA:848:G:O6	24:DA:929:G:H2'	2.06	0.55
24:DA:1159:U:O2'	24:DA:1160:G:H5'	2.05	0.55
24:DA:1289:C:H2'	24:DA:1290:C:C6	2.41	0.55
24:DA:1695:G:H2'	24:DA:1696:G:O4'	2.05	0.55
24:DA:1830:C:O2'	24:DA:1831:G:H5'	2.05	0.55
24:DA:1847:A:OP1	24:DA:1847:A:H8	1.88	0.55
24:DA:1978:A:H2'	24:DA:1979:C:H6	1.72	0.55
24:DA:2019:A:H2'	24:DA:2020:A:O5'	2.06	0.55
27:DE:3:GLY:HA3	27:DE:81:ILE:HD12	1.88	0.55
27:DE:20:ALA:O	27:DE:21:VAL:CG2	2.48	0.55
27:DE:117:MET:O	27:DE:117:MET:HG3	2.06	0.55
34:DO:15:ARG:O	34:DO:17:LYS:N	2.39	0.55
36:D0:91:GLN:NE2	36:D0:91:GLN:H	2.03	0.55
38:DR:107:ASP:O	38:DR:111:ARG:NH1	2.39	0.55
43:DU:48:ALA:H	43:DU:60:PHE:HA	1.71	0.55
43:DU:89:PHE:O	43:DU:90:LEU:HD13	2.05	0.55
48:DX:4:LEU:HD21	48:DX:39:ASP:OD1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DX:8:LEU:HD22	48:DX:31:LEU:CD2	2.37	0.55
22:CB:53:G:O2'	22:CB:54:G:H5'	2.06	0.55
1:AA:210:U:O2'	1:AA:216:G:C8	2.53	0.55
1:AA:802:A:H3'	1:AA:803:G:H8	1.71	0.55
1:AA:1005:A:H3'	1:AA:1006:C:C6	2.41	0.55
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.42	0.55
1:AA:1372:U:H2'	1:AA:1373:G:C5'	2.37	0.55
1:AA:1537:U:H2'	1:AA:1537:U:O2	2.05	0.55
2:AE:7:VAL:O	2:AE:8:LYS:C	2.49	0.55
2:AE:61:LEU:HD23	2:AE:68:ILE:HG13	1.89	0.55
2:AE:111:ARG:HH11	2:AE:111:ARG:HG2	1.71	0.55
3:AF:71:ALA:HA	3:AF:106:VAL:H	1.71	0.55
5:AH:68:GLU:O	5:AH:68:GLU:HG3	2.06	0.55
8:AK:112:LEU:HA	8:AK:134:ILE:HG12	1.89	0.55
14:AQ:42:ILE:O	14:AQ:45:ARG:HB3	2.06	0.55
15:AR:87:ILE:CG2	15:AR:88:ARG:N	2.62	0.55
22:AD:11:A:H8	22:AD:11:A:O5'	1.89	0.55
24:BA:654(R):C:H3'	24:BA:654(R):C:O2	2.05	0.55
24:BA:667:U:O2	53:B8:2:PRO:HD2	2.07	0.55
24:BA:859:G:H2'	24:BA:916:G:O6	2.06	0.55
24:BA:1089:G:H5"	24:BA:1090:U:OP1	2.07	0.55
24:BA:1396:U:O2	24:BA:1396:U:C2'	2.54	0.55
24:BA:2320:A:H1'	24:BA:2321:G:C6	2.41	0.55
24:BA:2331:G:O2'	24:BA:2336:A:N1	2.37	0.55
24:BA:2654:A:O3'	24:BA:2655:G:H4'	2.05	0.55
28:BF:89:VAL:CG1	28:BF:90:PHE:N	2.63	0.55
29:BG:173:LEU:HD23	29:BG:176:LEU:CD1	2.36	0.55
30:BH:86:GLU:OE2	30:BH:165:ALA:HB3	2.06	0.55
33:BN:26:LYS:HE3	33:BN:37:ASP:CG	2.31	0.55
43:BU:48:ALA:O	43:BU:50:ARG:N	2.39	0.55
43:BU:72:VAL:HG23	43:BU:73:ARG:N	2.22	0.55
45:B3:83:PRO:O	45:B3:84:LEU:C	2.49	0.55
47:BW:44:LEU:O	47:BW:45:SER:HB2	2.06	0.55
51:B6:25:LYS:CE	51:B6:27:LYS:HD3	2.36	0.55
1:CA:493:G:N2	1:CA:494:U:O4	2.39	0.55
1:CA:960:U:C2'	1:CA:961:U:OP2	2.54	0.55
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.41	0.55
3:CF:112:SER:OG	3:CF:115:LEU:HG	2.06	0.55
3:CF:188:LEU:HD22	3:CF:188:LEU:N	2.21	0.55
4:CG:28:SER:CB	4:CG:29:PRO:CD	2.84	0.55
5:CH:7:GLU:HG2	5:CH:112:LEU:HD22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:99:GLY:O	5:CH:117:ASP:HA	2.06	0.55
7:CJ:73:MET:HG2	7:CJ:90:GLU:HA	1.88	0.55
8:CK:49:GLU:O	8:CK:51:VAL:N	2.39	0.55
17:CT:50:LYS:HG3	17:CT:51:TYR:CE1	2.41	0.55
24:DA:507:A:H5"	24:DA:508:G:H5'	1.89	0.55
24:DA:997:G:OP1	39:D1:93:LYS:HD3	2.07	0.55
24:DA:1449(A):G:H2'	24:DA:1450:C:C6	2.41	0.55
24:DA:1474:C:C3'	24:DA:1475:G:H5"	2.35	0.55
24:DA:1545:A:H2'	24:DA:1545(A):A:O4'	2.07	0.55
26:DD:94:LEU:HD22	26:DD:95:LEU:H	1.69	0.55
26:DD:94:LEU:C	26:DD:94:LEU:HD13	2.31	0.55
31:DK:126:TYR:O	31:DK:140:LEU:HD23	2.05	0.55
33:DN:20:MET:HG2	33:DN:21:CYS:N	2.19	0.55
34:DO:13:ASN:O	34:DO:14:LYS:C	2.49	0.55
34:DO:39:LYS:N	34:DO:45:LEU:HD11	2.21	0.55
35:DP:25:ASP:N	35:DP:102:VAL:HG23	2.22	0.55
39:D1:73:GLY:O	39:D1:74:LEU:HB3	2.07	0.55
39:D1:92:ARG:NH1	40:D2:11:GLN:HB2	2.22	0.55
39:D1:96:ALA:O	39:D1:100:VAL:HG23	2.05	0.55
44:DV:30:ASN:HB3	44:DV:89:PHE:CE2	2.40	0.55
48:DX:35:ARG:HB3	48:DX:37:LEU:CD2	2.37	0.55
22:CB:44:A:H2'	22:CB:45:A:C8	2.41	0.55
1:AA:482:A:H5'	1:AA:483:C:OP2	2.06	0.55
1:AA:677:U:H2'	1:AA:678:U:H6	1.71	0.55
1:AA:724:G:H3'	1:AA:724:G:OP2	2.06	0.55
1:AA:857:C:H2'	1:AA:858:G:O4'	2.05	0.55
1:AA:1031:G:N2	1:AA:1032:A:H1'	2.18	0.55
1:AA:1274:G:N2	1:AA:1275:A:N6	2.51	0.55
2:AE:61:LEU:HD12	2:AE:66:GLY:HA3	1.87	0.55
2:AE:127:ILE:HA	2:AE:130:ARG:CG	2.37	0.55
2:AE:172:ILE:H	2:AE:172:ILE:CD1	2.19	0.55
3:AF:161:GLU:O	3:AF:162:GLN:CB	2.54	0.55
8:AK:28:ALA:CB	8:AK:57:PRO:HB2	2.37	0.55
8:AK:51:VAL:HG23	8:AK:52:ASP:N	2.22	0.55
9:AL:112:LYS:HD3	9:AL:113:LYS:N	2.22	0.55
10:AM:4:ILE:HG12	10:AM:100:THR:HG22	1.87	0.55
11:AN:54:ARG:NH1	11:AN:54:ARG:HG3	2.20	0.55
22:AD:16:C:H2'	22:AD:17:C:OP1	2.07	0.55
24:BA:644:A:C2	24:BA:2369:A:H1'	2.42	0.55
24:BA:712:G:O2'	24:BA:713:G:H5'	2.07	0.55
24:BA:878:A:N6	24:BA:899:A:O2'	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:973:A:H1'	24:BA:1188:U:C5	2.42	0.55
24:BA:1286:A:N1	24:BA:1329:U:H2'	2.22	0.55
24:BA:1348:G:O6	24:BA:1349:A:N6	2.39	0.55
24:BA:2795:G:C3'	24:BA:2797:U:C5'	2.83	0.55
26:BD:21:PHE:HB3	26:BD:24:ILE:HB	1.87	0.55
26:BD:255:LYS:CE	26:BD:255:LYS:N	2.58	0.55
30:BH:54:ARG:H	30:BH:54:ARG:CD	2.19	0.55
31:BK:110:ASP:OD2	31:BK:113:ARG:CB	2.53	0.55
36:B0:105:ARG:O	36:B0:105:ARG:HD2	2.06	0.55
39:B1:92:ARG:HG2	40:B2:11:GLN:NE2	2.20	0.55
43:BU:27:VAL:HG12	43:BU:39:VAL:CG1	2.30	0.55
48:BX:52:HIS:CD2	48:BX:52:HIS:N	2.73	0.55
1:CA:607:A:C2	16:CS:31:LYS:HB2	2.41	0.55
1:CA:984:C:H2'	1:CA:985:C:H6	1.71	0.55
1:CA:1024:G:H3'	1:CA:1024:G:N3	2.21	0.55
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.71	0.55
2:CE:204:ASN:HD22	2:CE:205:ASP:N	2.04	0.55
3:CF:3:ASN:ND2	3:CF:4:LYS:HZ3	2.04	0.55
3:CF:45:LYS:HD2	3:CF:46:GLU:HG3	1.87	0.55
3:CF:59:ARG:NH2	3:CF:97:LYS:HE3	2.20	0.55
9:CL:82:ALA:O	9:CL:86:VAL:HB	2.06	0.55
12:CO:83:VAL:HG22	12:CO:84:LEU:N	2.21	0.55
14:CQ:44:LEU:CD1	14:CQ:48:ALA:HB2	2.36	0.55
16:CS:43:LYS:C	16:CS:45:THR:H	2.14	0.55
20:CW:53:LEU:HA	20:CW:56:MET:HB3	1.87	0.55
20:CW:94:ALA:O	20:CW:95:ALA:CB	2.54	0.55
24:DA:97:C:H2'	24:DA:97:C:O2	2.07	0.55
24:DA:172:C:H2'	24:DA:173:G:H8	1.72	0.55
24:DA:318:C:O2'	24:DA:319:C:H5'	2.06	0.55
24:DA:345:A:C4'	24:DA:346:A:OP1	2.55	0.55
24:DA:581:C:O2'	24:DA:582:G:H5'	2.06	0.55
24:DA:803:U:H2'	24:DA:804:A:H5'	1.88	0.55
24:DA:943:U:OP2	34:DO:36:LYS:HD3	2.05	0.55
24:DA:1142(A):A:N7	24:DA:1144:G:C5	2.75	0.55
24:DA:1314:C:OP1	24:DA:1332:G:H5'	2.05	0.55
24:DA:1379:A:HO2'	24:DA:1380:G:P	2.21	0.55
24:DA:1945:G:H2'	24:DA:1946:U:C6	2.41	0.55
24:DA:2166:G:H2'	24:DA:2166:G:N3	2.22	0.55
24:DA:2175:C:C3'	24:DA:2176:A:H5"	2.36	0.55
24:DA:2528:U:O2'	24:DA:2529:G:H3'	2.07	0.55
28:DF:24:LEU:HB3	28:DF:115:ALA:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:29:ASN:N	28:DF:112:MET:HE1	2.19	0.55
28:DF:198:ALA:CA	28:DF:201:VAL:HG12	2.35	0.55
30:DH:152:ARG:C	30:DH:153:LYS:HE2	2.32	0.55
31:DK:40:THR:HG22	31:DK:41:GLU:N	2.20	0.55
32:DM:131:GLN:CG	32:DM:132:ALA:N	2.68	0.55
35:DP:12:GLN:OE1	35:DP:72:LYS:HD2	2.06	0.55
41:DS:14:PRO:HG2	41:DS:78:GLU:OE2	2.07	0.55
44:DV:5:LEU:HB3	44:DV:59:LEU:HD23	1.88	0.55
44:DV:76:LEU:HD23	44:DV:76:LEU:N	2.20	0.55
46:DZ:4:VAL:HG23	46:DZ:10:LYS:C	2.32	0.55
1:AA:25:C:H2'	1:AA:26:A:H8	1.72	0.55
1:AA:382:A:O2'	1:AA:383:A:H5'	2.07	0.55
1:AA:517:G:HO2'	1:AA:530:G:H4'	1.72	0.55
1:AA:737:A:H2'	1:AA:738:C:H6	1.70	0.55
1:AA:997:U:H2'	1:AA:998:G:O4'	2.07	0.55
1:AA:998(A):C:C3'	1:AA:999:U:H5"	2.37	0.55
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.41	0.55
1:AA:1278:U:H5'	1:AA:1279:A:H5'	1.89	0.55
2:AE:71:VAL:O	2:AE:164:VAL:HG13	2.06	0.55
2:AE:78:GLN:HG2	2:AE:94:ASN:ND2	2.21	0.55
2:AE:196:LEU:HD12	2:AE:197:VAL:N	2.22	0.55
3:AF:52:LEU:HD23	3:AF:52:LEU:H	1.71	0.55
3:AF:136:GLN:O	3:AF:139:GLN:N	2.38	0.55
9:AL:33:PHE:CE2	9:AL:44:VAL:HA	2.42	0.55
10:AM:44:VAL:HG12	10:AM:46:ARG:HG3	1.88	0.55
10:AM:98:ILE:HD12	10:AM:98:ILE:N	2.22	0.55
11:AN:13:GLN:CD	11:AN:13:GLN:N	2.63	0.55
11:AN:20:TYR:HB2	11:AN:31:THR:HG23	1.88	0.55
18:AU:43:PHE:O	18:AU:51:LEU:HD12	2.05	0.55
19:AV:62:ILE:HG23	19:AV:66:MET:HE3	1.89	0.55
24:BA:119:A:O2'	24:BA:120:U:P	2.65	0.55
24:BA:445:C:H2'	24:BA:446:G:O4'	2.06	0.55
24:BA:616:A:O2'	24:BA:617:G:P	2.64	0.55
24:BA:902:C:H2'	24:BA:903:C:H6	1.70	0.55
24:BA:996:A:H4'	39:B1:92:ARG:CZ	2.37	0.55
24:BA:996:A:H2'	24:BA:997:G:H8	1.72	0.55
24:BA:1902:C:H5'	26:BD:246:PRO:HD3	1.89	0.55
24:BA:1937:A:O2'	24:BA:1938:A:OP1	2.22	0.55
24:BA:2119:A:N6	24:BA:2171:A:N3	2.54	0.55
24:BA:2693:A:H2'	24:BA:2694:G:H8	1.72	0.55
29:BG:10:LYS:O	29:BG:15:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:75:LEU:O	31:BK:105:HIS:HE1	1.89	0.55
34:BO:106:LEU:HD11	34:BO:112:LEU:HD23	1.88	0.55
34:BO:123:LEU:C	34:BO:123:LEU:HD12	2.30	0.55
35:BP:63:LYS:HZ2	44:BV:175:VAL:HG11	1.71	0.55
35:BP:141:GLN:HB3	44:BV:74:VAL:C	2.31	0.55
39:B1:58:ARG:HA	39:B1:61:TRP:HE3	1.71	0.55
41:BS:4:LYS:HG2	41:BS:106:ILE:HG22	1.89	0.55
43:BU:96:ILE:HG22	43:BU:97:ARG:HD3	1.88	0.55
43:BU:96:ILE:HG13	43:BU:100:ALA:O	2.06	0.55
44:BV:10:ARG:HB3	44:BV:36:LYS:C	2.31	0.55
1:CA:186:C:H5'	20:CW:78:ALA:HB1	1.89	0.55
1:CA:341:C:H2'	1:CA:342:C:C6	2.42	0.55
1:CA:559:A:H4'	1:CA:560:U:H5"	1.88	0.55
1:CA:872:A:C8	1:CA:874:G:C8	2.95	0.55
1:CA:995:C:H5'	14:CQ:8:GLU:HG2	1.87	0.55
1:CA:1128:C:H5'	9:CL:16:ARG:HH22	1.72	0.55
2:CE:46:LYS:HA	2:CE:49:GLU:OE1	2.06	0.55
3:CF:6:HIS:CD2	3:CF:7:PRO:HD2	2.41	0.55
8:CK:102:ARG:NH1	8:CK:105:ARG:NH1	2.55	0.55
15:CR:24:SER:O	15:CR:28:GLN:HG3	2.06	0.55
15:CR:39:LEU:O	15:CR:40:SER:C	2.50	0.55
20:CW:43:LEU:HA	20:CW:46:GLU:HB3	1.89	0.55
24:DA:278:A:H2'	24:DA:279:C:C6	2.41	0.55
24:DA:1288:U:H4'	24:DA:1289:C:OP2	2.06	0.55
24:DA:1639:U:H2'	24:DA:1640:C:H5"	1.88	0.55
27:DE:53:PRO:O	27:DE:74:PRO:HA	2.07	0.55
33:DN:19:ILE:HD13	33:DN:19:ILE:O	2.06	0.55
34:DO:31:ALA:O	34:DO:32:THR:HG23	2.05	0.55
43:DU:91:GLU:HG3	43:DU:92:ASN:H	1.72	0.55
44:DV:37:VAL:O	44:DV:38:TYR:HB3	2.06	0.55
44:DV:54:HIS:HE1	44:DV:123:ASP:OD1	1.90	0.55
50:D5:55:ARG:HD3	50:D5:56:LYS:N	2.21	0.55
1:AA:377:G:OP1	16:AS:3:LYS:HD2	2.07	0.55
2:AE:85:ALA:HB3	2:AE:92:TYR:CD1	2.42	0.55
3:AF:150:LYS:HB2	3:AF:169:ALA:HB2	1.86	0.55
6:AI:86:ARG:O	6:AI:87:ARG:HG2	2.07	0.55
7:AJ:64:GLN:O	7:AJ:67:GLU:N	2.40	0.55
7:AJ:136:LYS:O	7:AJ:140:ASP:HB2	2.06	0.55
11:AN:126:ARG:O	11:AN:127:LYS:C	2.49	0.55
13:AP:50:GLU:OE2	13:AP:54:VAL:HG23	2.07	0.55
19:AV:36:ARG:CB	19:AV:72:GLY:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AV:64:GLU:C	19:AV:66:MET:H	2.12	0.55
24:BA:13:A:C4'	24:BA:14:A:OP1	2.55	0.55
24:BA:865:C:H5'	24:BA:866:A:OP1	2.06	0.55
24:BA:1930:G:H2'	24:BA:1931:U:OP2	2.07	0.55
24:BA:2150:U:H2'	24:BA:2151:G:C8	2.42	0.55
24:BA:2532:G:H4'	24:BA:2657:A:C2	2.42	0.55
25:BB:90:C:OP1	35:BP:16:ARG:CG	2.54	0.55
27:BE:11:MET:O	27:BE:12:THR:HG23	2.06	0.55
30:BH:99:VAL:HG12	30:BH:100:GLY:N	2.22	0.55
31:BK:13:GLY:HA3	31:BK:17:GLN:CD	2.32	0.55
31:BK:37:VAL:HG12	31:BK:38:LEU:N	2.22	0.55
34:BO:85:LEU:H	34:BO:85:LEU:CD2	2.19	0.55
37:BQ:18:ILE:O	37:BQ:21:THR:HG23	2.05	0.55
37:BQ:86:ALA:O	37:BQ:87:PHE:HB3	2.06	0.55
38:BR:74:ARG:HH11	38:BR:74:ARG:CB	2.09	0.55
53:B8:34:TRP:C	53:B8:36:LYS:N	2.65	0.55
1:CA:22:G:H4'	1:CA:885:G:C8	2.42	0.55
1:CA:85:U:C6	1:CA:85:U:O5'	2.60	0.55
1:CA:754:C:H3'	1:CA:754:C:O2	2.07	0.55
1:CA:1139:G:N2	1:CA:1144:G:H1	2.03	0.55
4:CG:126:ILE:HG22	4:CG:127:THR:N	2.22	0.55
6:CI:52:ILE:O	6:CI:53:ALA:HB3	2.07	0.55
11:CN:125:PHE:CD1	11:CN:125:PHE:N	2.73	0.55
16:CS:59:TRP:HA	16:CS:59:TRP:CE3	2.42	0.55
18:CU:58:LEU:HD12	18:CU:58:LEU:H	1.72	0.55
21:CX:21:TYR:O	21:CX:22:ARG:HB2	2.05	0.55
24:DA:529:A:H61	24:DA:2041:U:H3	1.55	0.55
24:DA:1238:G:O2'	24:DA:1239:G:H5'	2.07	0.55
24:DA:1372:U:C6	24:DA:1372:U:C4'	2.90	0.55
24:DA:1608:A:H4'	24:DA:1609:A:OP1	2.07	0.55
24:DA:1888:G:H5"	24:DA:1888:G:N3	2.22	0.55
24:DA:2832:U:H1'	24:DA:2834:G:C5	2.41	0.55
25:DB:72:G:N2	25:DB:103:U:H5	2.05	0.55
27:DE:67:PHE:O	27:DE:69:LYS:N	2.39	0.55
28:DF:198:ALA:C	28:DF:200:GLU:N	2.62	0.55
34:DO:49:ARG:NE	53:D8:59:LYS:HG2	2.22	0.55
36:D0:84:ALA:HB3	36:D0:85:PRO:HD3	1.88	0.55
40:D2:29:PRO:HA	40:D2:61:VAL:CG2	2.37	0.55
41:DS:25:ARG:HH11	41:DS:25:ARG:CB	2.20	0.55
43:DU:84:ARG:NH1	43:DU:97:ARG:HB2	2.11	0.55
43:DU:95:LYS:CB	43:DU:100:ALA:HA	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:94:GLU:CB	44:DV:95:PRO:HA	2.37	0.55
46:DZ:83:GLU:CD	46:DZ:85:LEU:H	2.15	0.55
49:D4:9:LEU:H	49:D4:27:THR:HG22	1.71	0.55
49:D4:37:SER:C	49:D4:39:CYS:N	2.62	0.55
52:D7:19:ARG:HH11	52:D7:19:ARG:HG2	1.71	0.55
1:AA:4:U:H3	8:AK:105:ARG:NE	2.03	0.55
1:AA:176:C:H2'	1:AA:177:C:H6	1.70	0.55
1:AA:1116:C:C2'	1:AA:1117:G:H5"	2.35	0.55
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.42	0.55
1:AA:1330:U:H4'	13:AP:23:TYR:CE2	2.42	0.55
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.07	0.55
2:AE:31:TYR:OH	2:AE:200:ILE:HG21	2.07	0.55
2:AE:62:ALA:C	2:AE:64:ARG:N	2.65	0.55
4:AG:18:LYS:HD3	4:AG:32:ALA:HB3	1.87	0.55
5:AH:15:ARG:NH1	23:A1:25:A:C8	2.75	0.55
8:AK:29:SER:HB3	8:AK:32:LYS:CD	2.37	0.55
10:AM:31:GLY:O	10:AM:32:ALA:CB	2.55	0.55
12:AO:84:LEU:HD22	12:AO:85:ILE:H	1.71	0.55
13:AP:14:ARG:HD2	13:AP:42:ALA:HA	1.89	0.55
19:AV:9:VAL:CG1	49:B4:63:TYR:HD1	2.20	0.55
20:AW:72:LEU:HD23	20:AW:72:LEU:C	2.31	0.55
24:BA:478:A:N1	24:BA:500:G:H4'	2.21	0.55
24:BA:846:C:H4'	24:BA:847:U:O5'	2.05	0.55
24:BA:878:A:H4'	24:BA:878:A:OP1	2.06	0.55
24:BA:1237:A:H4'	24:BA:1238:G:O5'	2.06	0.55
24:BA:1542:G:H3'	24:BA:1543:A:C5'	2.37	0.55
24:BA:1952:A:C6	33:BN:22:ILE:HD12	2.42	0.55
24:BA:2523:G:H5'	24:BA:2523:G:C8	2.36	0.55
24:BA:2893:G:H5'	24:BA:2894:G:C5'	2.27	0.55
27:BE:204:ALA:O	27:BE:205:ALA:HB2	2.07	0.55
29:BG:9:ARG:HH11	29:BG:9:ARG:HG2	1.72	0.55
30:BH:26:VAL:HG13	30:BH:31:GLY:CA	2.33	0.55
33:BN:104:ARG:HH12	33:BN:107:ARG:HH21	1.53	0.55
37:BQ:69:VAL:O	37:BQ:72:ALA:HB3	2.07	0.55
39:B1:90:VAL:O	39:B1:92:ARG:HB3	2.07	0.55
41:BS:1:MET:HE2	41:BS:2:GLU:H	1.72	0.55
48:BX:43:ILE:O	48:BX:47:VAL:HG23	2.07	0.55
49:B4:69:LYS:C	49:B4:69:LYS:HD3	2.32	0.55
1:CA:197:A:N6	1:CA:221:C:C5'	2.70	0.55
1:CA:274:A:H4'	1:CA:275:G:O5'	2.04	0.55
1:CA:946:A:H2'	1:CA:947:G:H8	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.41	0.55
1:CA:1321:C:C4	1:CA:1322:C:N4	2.75	0.55
1:CA:1537:U:H2'	1:CA:1538:C:H5	1.70	0.55
2:CE:41:ILE:HD12	2:CE:41:ILE:N	2.22	0.55
2:CE:214:ILE:HA	2:CE:217:ARG:NH2	2.22	0.55
3:CF:6:HIS:HB2	14:CQ:49:HIS:HD2	1.71	0.55
7:CJ:50:ILE:CB	7:CJ:58:PRO:HB3	2.37	0.55
9:CL:114:TYR:O	9:CL:114:TYR:CD2	2.58	0.55
10:CM:4:ILE:CB	10:CM:74:ILE:HD11	2.36	0.55
10:CM:16:LEU:HD13	10:CM:16:LEU:O	2.07	0.55
11:CN:20:TYR:HB2	11:CN:31:THR:O	2.07	0.55
13:CP:80:ARG:O	13:CP:84:ILE:HB	2.06	0.55
17:CT:13:ASP:C	17:CT:15:MET:H	2.15	0.55
19:CV:67:VAL:HG11	49:D4:59:PHE:O	2.07	0.55
23:C1:10:G:C2'	23:C1:11:U:O5'	2.54	0.55
24:DA:558:G:P	32:DM:111:PRO:HD2	2.47	0.55
24:DA:1062:G:N7	24:DA:1088:A:H2'	2.22	0.55
24:DA:1266:G:O2'	24:DA:2012:G:N1	2.39	0.55
24:DA:2059:A:O2'	28:DF:69:HIS:HD2	1.89	0.55
24:DA:2370:G:H2'	24:DA:2371:G:C8	2.41	0.55
26:DD:43:ARG:CB	26:DD:54:ARG:HB2	2.37	0.55
27:DE:4:ILE:HD13	27:DE:5:LEU:H	1.71	0.55
30:DH:143:GLN:C	30:DH:143:GLN:HE21	2.15	0.55
32:DM:87:LEU:HD23	32:DM:87:LEU:C	2.32	0.55
33:DN:4:PRO:O	33:DN:5:GLN:HB2	2.06	0.55
33:DN:79:PHE:HD2	38:DR:72:VAL:HG22	1.72	0.55
35:DP:64:ILE:HA	35:DP:106:VAL:CG1	2.33	0.55
38:DR:29:ARG:HB2	38:DR:29:ARG:HH11	1.72	0.55
39:D1:6:THR:O	39:D1:9:VAL:HG23	2.07	0.55
39:D1:58:ARG:O	39:D1:62:ILE:HG13	2.06	0.55
43:DU:61:ILE:HG23	43:DU:62:GLU:H	1.71	0.55
46:DZ:91:LYS:CG	46:DZ:92:LYS:H	2.15	0.55
49:D4:48:ARG:HH12	49:D4:52:THR:HG22	1.71	0.55
49:D4:61:ARG:C	49:D4:63:TYR:H	2.14	0.55
1:AA:107:G:H2'	1:AA:108:G:H5'	1.89	0.55
1:AA:501:C:H2'	1:AA:502:G:C8	2.41	0.55
1:AA:676:A:H2'	1:AA:677:U:C6	2.42	0.55
2:AE:88:ALA:HB2	2:AE:219:VAL:HG23	1.89	0.55
3:AF:84:ILE:O	3:AF:88:ARG:N	2.33	0.55
5:AH:80:ILE:HD11	5:AH:138:ALA:HB1	1.89	0.55
9:AL:95:LYS:C	9:AL:98:PRO:HD2	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AN:128:ALA:O	11:AN:129:SER:HB2	2.06	0.55
12:AO:22:SER:O	12:AO:24:VAL:N	2.39	0.55
13:AP:102:ARG:HH11	13:AP:105:THR:HG23	1.70	0.55
19:AV:36:ARG:HG3	19:AV:71:LEU:N	2.21	0.55
19:AV:67:VAL:HG13	19:AV:68:GLY:N	2.11	0.55
24:BA:270(I):G:H2'	24:BA:270(J):G:C8	2.42	0.55
24:BA:907:U:O2'	35:BP:101:ARG:NH2	2.33	0.55
24:BA:958:U:OP2	35:BP:14:ARG:NH1	2.40	0.55
24:BA:1515:C:H2'	24:BA:1516:U:H6	1.72	0.55
24:BA:1517:G:O2'	24:BA:1518:C:H5'	2.07	0.55
24:BA:1543:A:H1'	24:BA:1545:A:C1'	2.37	0.55
24:BA:1678:G:H22	24:BA:1989:G:H22	1.54	0.55
24:BA:1992:G:O2'	24:BA:1993:U:OP2	2.22	0.55
24:BA:2262:U:O2'	24:BA:2263:C:H5'	2.05	0.55
24:BA:2406:U:N3	34:BO:72:PRO:HB2	2.22	0.55
28:BF:34:TRP:CZ3	34:BO:8:PRO:HB3	2.41	0.55
29:BG:37:VAL:O	29:BG:94:LEU:HD23	2.06	0.55
29:BG:96:ARG:O	29:BG:97:ASP:C	2.49	0.55
29:BG:142:PRO:O	49:B4:31:ILE:HG21	2.06	0.55
30:BH:7:LEU:HD13	30:BH:69:ARG:HB3	1.89	0.55
30:BH:17:VAL:O	30:BH:18:GLU:HG2	2.07	0.55
30:BH:22:GLY:HA2	30:BH:37:VAL:HB	1.87	0.55
37:BQ:5:THR:OG1	37:BQ:8:GLU:HG2	2.07	0.55
47:BW:32:LEU:O	47:BW:35:LEU:HB2	2.06	0.55
53:B8:14:VAL:HG11	53:B8:22:VAL:HG13	1.88	0.55
1:CA:31:G:H4'	1:CA:32:A:OP1	2.06	0.55
1:CA:266:G:O2'	1:CA:267:C:OP2	2.24	0.55
1:CA:508:C:H1'	1:CA:509:A:N7	2.22	0.55
1:CA:918:A:O2'	1:CA:919:A:H5'	2.07	0.55
1:CA:1002:G:N3	1:CA:1003:G:C8	2.75	0.55
1:CA:1260:C:O5'	1:CA:1284:C:H4'	2.07	0.55
1:CA:1261:A:H5'	1:CA:1284:C:OP1	2.06	0.55
8:CK:102:ARG:HH11	8:CK:105:ARG:CZ	2.19	0.55
10:CM:19:SER:O	10:CM:23:ILE:HG13	2.07	0.55
16:CS:21:VAL:O	16:CS:33:ILE:N	2.39	0.55
17:CT:48:GLU:O	17:CT:49:GLU:C	2.48	0.55
20:CW:10:LEU:HG	20:CW:12:ALA:H	1.70	0.55
22:CD:20:U:H3'	22:CD:21:A:C5'	2.33	0.55
24:DA:221:A:N6	24:DA:427:U:O2	2.39	0.55
24:DA:622:G:C2'	24:DA:623:G:H5'	2.37	0.55
24:DA:1166:C:H2'	24:DA:1167:U:H6	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1205:U:H4'	24:DA:1206:G:OP2	2.06	0.55
24:DA:1263:U:O2'	50:D5:11:THR:HG23	2.06	0.55
24:DA:1268:A:C2	24:DA:2013:A:C4	2.95	0.55
24:DA:1360:A:C6	24:DA:1372:U:O4	2.59	0.55
24:DA:2778:A:H4'	24:DA:2779:U:OP2	2.05	0.55
25:DB:12:C:O2	45:D3:74:ARG:NH1	2.37	0.55
29:DG:34:LEU:HD11	29:DG:99:MET:HE2	1.88	0.55
29:DG:41:GLN:HB3	29:DG:43:LEU:HD13	1.87	0.55
29:DG:121:ASN:C	29:DG:121:ASN:HD22	2.13	0.55
32:DM:44:PRO:HG2	32:DM:45:ASN:H	1.71	0.55
32:DM:109:LYS:HD2	32:DM:109:LYS:N	2.22	0.55
34:DO:2:LYS:O	34:DO:5:ASP:HB2	2.06	0.55
35:DP:21:THR:O	35:DP:22:LYS:O	2.25	0.55
38:DR:123:GLN:O	38:DR:125:ARG:N	2.40	0.55
49:D4:63:TYR:C	49:D4:65:ASP:N	2.61	0.55
51:D6:42:TRP:N	51:D6:42:TRP:CD1	2.73	0.55
22:CB:64:G:H2'	22:CB:65:G:H8	1.71	0.55
1:AA:933:G:OP2	7:AJ:2:ALA:N	2.40	0.55
2:AE:142:LEU:HA	2:AE:145:LEU:HB2	1.87	0.55
5:AH:93:PRO:HG2	8:AK:105:ARG:NE	2.22	0.55
12:AO:6:THR:OG1	12:AO:9:GLN:HG3	2.06	0.55
22:AC:66:C:H2'	22:AC:67:C:H6	1.71	0.55
22:AD:38:A:H2'	22:AD:39:C:H5'	1.89	0.55
24:BA:752:A:HO2'	24:BA:753:C:P	2.28	0.55
24:BA:1947:C:H2'	24:BA:1948:G:H5"	1.88	0.55
24:BA:2447:G:H3'	24:BA:2500:U:OP2	2.06	0.55
24:BA:2457:U:H2'	24:BA:2458:G:O4'	2.07	0.55
26:BD:27:THR:O	26:BD:28:GLU:CB	2.55	0.55
27:BE:116:VAL:O	27:BE:117:MET:CB	2.53	0.55
30:BH:29:PRO:C	30:BH:30:LYS:HG3	2.32	0.55
30:BH:110:SER:O	30:BH:111:HIS:CB	2.54	0.55
33:BN:3:GLN:CB	33:BN:4:PRO:HD2	2.36	0.55
34:BO:59:LEU:CG	34:BO:60:MET:H	2.20	0.55
35:BP:87:LYS:HE3	45:B3:7:LEU:HD12	1.88	0.55
38:BR:137:LYS:NZ	38:BR:137:LYS:HB3	2.22	0.55
40:B2:3:ALA:HB3	40:B2:14:VAL:HG23	1.89	0.55
40:B2:5:VAL:CG2	40:B2:37:VAL:HG21	2.36	0.55
40:B2:34:GLU:C	40:B2:35:LEU:HD13	2.32	0.55
40:B2:97:LYS:O	40:B2:98:GLU:HB2	2.07	0.55
41:BS:107:LEU:HD22	41:BS:107:LEU:N	2.22	0.55
48:BX:8:LEU:HD12	48:BX:30:ARG:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:703:G:C2'	1:CA:704:A:OP2	2.55	0.55
1:CA:748:C:H1'	1:CA:749:C:H5	1.71	0.55
1:CA:1148:U:O5'	1:CA:1148:U:H6	1.89	0.55
1:CA:1151:A:N3	10:CM:39:PRO:HG3	2.22	0.55
1:CA:1223:C:OP1	1:CA:1224:G:H3'	2.07	0.55
1:CA:1533:C:O2	1:CA:1533:C:C2'	2.53	0.55
6:CI:33:TYR:HE2	6:CI:74:ASP:HB3	1.71	0.55
8:CK:23:SER:HB2	8:CK:61:VAL:O	2.07	0.55
9:CL:45:ALA:O	9:CL:48:GLU:HG2	2.07	0.55
9:CL:105:ASP:C	9:CL:107:ARG:H	2.14	0.55
10:CM:81:THR:C	10:CM:83:GLU:N	2.64	0.55
10:CM:84:GLN:C	10:CM:86:MET:H	2.14	0.55
16:CS:43:LYS:HA	16:CS:48:TRP:CB	2.37	0.55
24:DA:637:A:O2'	24:DA:638:G:OP2	2.19	0.55
24:DA:1056:G:N2	24:DA:1103:A:C8	2.75	0.55
24:DA:1778:U:H2'	24:DA:1784:A:N6	2.22	0.55
24:DA:2555:U:C5	24:DA:2556:C:C6	2.95	0.55
24:DA:2635:C:H5'	27:DE:77:ILE:HD13	1.89	0.55
24:DA:2656:U:C5	24:DA:2657:A:N7	2.75	0.55
27:DE:21:VAL:HG23	27:DE:22:PRO:HD3	1.89	0.55
37:DQ:36:TYR:HD2	37:DQ:52:SER:CB	2.19	0.55
40:D2:49:THR:CB	40:D2:50:PRO:CD	2.83	0.55
41:DS:88:ARG:HB3	41:DS:92:ARG:HB3	1.89	0.55
49:D4:51:ASP:O	49:D4:51:ASP:OD1	2.25	0.55
53:D8:30:ARG:O	53:D8:31:HIS:CB	2.54	0.55
22:CB:67:C:H2'	22:CB:68:C:C6	2.42	0.55
1:AA:197:A:H1'	1:AA:198:G:O4'	2.06	0.55
1:AA:715:A:H2'	1:AA:716:A:C8	2.42	0.55
1:AA:1056:U:H5'	3:AF:163:ALA:HB2	1.88	0.55
1:AA:1364:U:C2'	1:AA:1365:G:OP1	2.55	0.55
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.07	0.55
1:AA:1523:G:H2'	1:AA:1524:C:C6	2.41	0.55
2:AE:21:ARG:HH22	2:AE:38:GLY:HA3	1.69	0.55
3:AF:137:ALA:O	3:AF:141:VAL:HG23	2.07	0.55
6:AI:37:VAL:HG13	6:AI:65:VAL:HG12	1.89	0.55
7:AJ:28:ASN:OD1	7:AJ:36:LYS:HE3	2.06	0.55
7:AJ:64:GLN:O	7:AJ:65:ALA:C	2.49	0.55
7:AJ:86:GLN:HE22	22:AD:31:G:N2	2.05	0.55
8:AK:10:LEU:N	8:AK:10:LEU:HD23	2.22	0.55
9:AL:128:ARG:HG3	22:AC:32:C:OP2	2.07	0.55
10:AM:22:LYS:HD2	10:AM:22:LYS:C	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:20:THR:O	13:AP:22:ILE:N	2.35	0.55
15:AR:81:LEU:HD11	15:AR:85:LEU:CD1	2.36	0.55
15:AR:82:ILE:HD13	15:AR:87:ILE:H	1.72	0.55
17:AT:52:LYS:O	17:AT:55:ASP:OD2	2.25	0.55
17:AT:62:SER:HB2	17:AT:72:ARG:NH1	2.22	0.55
17:AT:66:SER:O	17:AT:67:LYS:C	2.50	0.55
23:A1:4:A:O2'	23:A1:5:A:P	2.65	0.55
24:BA:997:G:O2'	24:BA:998:C:H5'	2.07	0.55
24:BA:1286:A:C2'	24:BA:1288:U:OP2	2.55	0.55
24:BA:1301:A:H2'	24:BA:1302:A:C3'	2.29	0.55
24:BA:1384:A:H1'	24:BA:1405:U:O4'	2.07	0.55
24:BA:1585:C:O2'	24:BA:1586:A:P	2.65	0.55
24:BA:2142:C:H2'	24:BA:2143:C:C6	2.41	0.55
24:BA:2275:C:O2'	24:BA:2276:G:OP2	2.21	0.55
25:BB:50:G:OP2	37:BQ:62:LYS:HB2	2.07	0.55
26:BD:62:TYR:CE1	26:BD:64:ILE:HA	2.41	0.55
29:BG:63:ILE:HG13	29:BG:64:THR:N	2.21	0.55
30:BH:86:GLU:HG3	30:BH:165:ALA:N	2.22	0.55
30:BH:155:SER:O	30:BH:156:ALA:O	2.25	0.55
31:BK:109:ILE:N	31:BK:109:ILE:CD1	2.69	0.55
34:BO:125:VAL:HG13	34:BO:144:GLU:HB3	1.87	0.55
37:BQ:73:LEU:HD13	37:BQ:73:LEU:O	2.06	0.55
40:B2:49:THR:CB	40:B2:50:PRO:CD	2.84	0.55
40:B2:51:VAL:HG12	40:B2:52:VAL:N	2.21	0.55
43:BU:12:THR:CG2	43:BU:13:VAL:N	2.69	0.55
44:BV:157:LEU:CB	44:BV:161:VAL:HG21	2.27	0.55
46:BZ:90:ILE:CG2	46:BZ:90:ILE:O	2.54	0.55
46:BZ:97:LEU:CD1	46:BZ:98:LEU:H	2.20	0.55
47:BW:43:GLN:O	47:BW:44:LEU:HG	2.07	0.55
51:B6:17:LYS:NZ	51:B6:17:LYS:HB3	2.21	0.55
53:B8:48:PHE:N	53:B8:48:PHE:HD1	2.05	0.55
1:CA:189:U:C2	17:CT:72:ARG:NH1	2.75	0.55
1:CA:815:A:O2'	1:CA:816:A:P	2.64	0.55
1:CA:828:A:H2'	1:CA:829:G:O4'	2.07	0.55
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.71	0.55
1:CA:1260:C:P	1:CA:1284:C:H4'	2.47	0.55
1:CA:1294:G:O2'	1:CA:1295:G:H5'	2.07	0.55
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.42	0.55
2:CE:187:LEU:HD22	2:CE:201:ILE:O	2.07	0.55
6:CI:89:MET:HE1	18:CU:76:LEU:CD2	2.36	0.55
8:CK:119:LEU:HD12	8:CK:124:ALA:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:40:LEU:HD11	9:CL:70:LYS:CG	2.37	0.55
9:CL:70:LYS:O	9:CL:74:ILE:HG13	2.07	0.55
16:CS:28:ARG:HG2	16:CS:28:ARG:NH1	2.22	0.55
24:DA:580:C:O2'	24:DA:581:C:H5'	2.07	0.55
24:DA:888:C:H4'	24:DA:889:C:OP2	2.07	0.55
24:DA:971:C:H2'	24:DA:972:G:H5'	1.89	0.55
24:DA:1063:G:H1'	24:DA:1077:A:N7	2.22	0.55
24:DA:2653:U:O2'	30:DH:110:SER:HB2	2.07	0.55
24:DA:2657:A:H2'	24:DA:2658:C:C5'	2.36	0.55
25:DB:65:C:O2'	25:DB:66:A:H5'	2.07	0.55
27:DE:54:GLN:NE2	27:DE:54:GLN:N	2.56	0.55
28:DF:28:ILE:O	28:DF:28:ILE:HD12	2.06	0.55
30:DH:26:VAL:CG1	30:DH:27:LYS:N	2.64	0.55
37:DQ:107:GLU:N	37:DQ:110:LEU:HD11	2.22	0.55
38:DR:16:ARG:HG2	38:DR:18:ASP:OD1	2.07	0.55
39:D1:27:LEU:O	39:D1:29:SER:N	2.40	0.55
40:D2:27:ALA:O	40:D2:28:GLU:O	2.24	0.55
43:DU:95:LYS:HD3	43:DU:95:LYS:N	2.23	0.55
43:DU:95:LYS:HA	43:DU:101:LYS:H	1.72	0.55
44:DV:16:SER:O	44:DV:20:ARG:HB2	2.06	0.55
46:DZ:92:LYS:C	46:DZ:94:LEU:N	2.62	0.55
1:AA:500:G:H2'	1:AA:501:C:C6	2.43	0.54
1:AA:743:U:H2'	1:AA:744:C:C6	2.41	0.54
1:AA:927:G:OP2	1:AA:1503:A:N7	2.41	0.54
2:AE:8:LYS:HG3	2:AE:11:LEU:CD2	2.36	0.54
2:AE:42:ILE:HG13	2:AE:43:ASP:N	2.22	0.54
2:AE:142:LEU:C	2:AE:142:LEU:HD23	2.32	0.54
5:AH:60:TYR:CB	5:AH:64:ARG:HH21	2.14	0.54
12:AO:75:HIS:HD2	12:AO:77:LEU:HB2	1.72	0.54
12:AO:124:LYS:O	12:AO:125:PRO:C	2.48	0.54
13:AP:3:ARG:C	49:B4:34:GLU:HG3	2.33	0.54
18:AU:37:VAL:O	18:AU:38:GLU:C	2.50	0.54
20:AW:73:HIS:O	20:AW:76:ALA:HB3	2.07	0.54
24:BA:107:C:H2'	24:BA:108:U:C6	2.42	0.54
24:BA:654(S):G:O5'	24:BA:654(S):G:H8	1.88	0.54
24:BA:1429:G:H2'	24:BA:1430:C:C6	2.42	0.54
24:BA:1820:U:C2	26:BD:202:LYS:HD2	2.42	0.54
24:BA:2052:G:O4'	27:BE:142:GLY:HA3	2.07	0.54
24:BA:2614:A:C4'	24:BA:2615:U:OP1	2.53	0.54
24:BA:2759:G:H8	24:BA:2759:G:C5'	2.19	0.54
25:BB:5:C:O2'	25:BB:6:C:H5'	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:101:ILE:HD12	29:BG:102:PHE:N	2.22	0.54
29:BG:175:LEU:O	29:BG:177:GLY:N	2.40	0.54
30:BH:125:VAL:HG12	30:BH:126:PRO:HG3	1.90	0.54
32:BM:131:GLN:NE2	32:BM:132:ALA:HB3	2.22	0.54
34:BO:84:ASN:HA	34:BO:116:GLY:HA3	1.88	0.54
34:BO:101:VAL:CG2	34:BO:108:LYS:H	2.16	0.54
38:BR:39:ARG:HG3	38:BR:40:THR:N	2.23	0.54
41:BS:75:TYR:CE2	41:BS:104:THR:CB	2.90	0.54
42:BT:28:PHE:N	42:BT:28:PHE:CD1	2.75	0.54
42:BT:37:THR:C	42:BT:39:ILE:H	2.14	0.54
43:BU:17:SER:HB3	43:BU:71:LYS:HB3	1.88	0.54
43:BU:97:ARG:HD3	43:BU:97:ARG:N	2.22	0.54
44:BV:51:ALA:O	44:BV:54:HIS:HB2	2.07	0.54
44:BV:94:GLU:N	44:BV:94:GLU:OE1	2.40	0.54
44:BV:155:LEU:C	44:BV:156:LYS:HG2	2.31	0.54
47:BW:45:SER:O	47:BW:46:GLN:NE2	2.41	0.54
47:BW:50:ILE:O	47:BW:51:ARG:C	2.51	0.54
1:CA:50:A:O2'	1:CA:51:A:OP2	2.24	0.54
1:CA:411:A:C5	1:CA:413:G:N3	2.75	0.54
1:CA:451:A:H4'	1:CA:452:A:O4'	2.07	0.54
1:CA:644:G:H2'	1:CA:645:C:C5'	2.37	0.54
1:CA:1199:U:H4'	10:CM:54:PHE:CE1	2.42	0.54
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.42	0.54
2:CE:16:HIS:CE1	2:CE:209:ARG:HH21	2.25	0.54
4:CG:31:CYS:O	4:CG:32:ALA:HB3	2.07	0.54
6:CI:92:LYS:HB2	6:CI:92:LYS:NZ	2.22	0.54
6:CI:92:LYS:HB2	6:CI:92:LYS:HZ2	1.72	0.54
8:CK:77:GLU:HG2	8:CK:78:GLN:N	2.22	0.54
12:CO:28:LYS:O	12:CO:29:GLY:C	2.50	0.54
13:CP:81:LEU:HB3	13:CP:89:GLY:HA2	1.89	0.54
13:CP:117:VAL:O	13:CP:118:ALA:C	2.51	0.54
13:CP:121:LYS:HE2	13:CP:121:LYS:N	2.22	0.54
24:DA:229:A:O2'	24:DA:230:U:OP2	2.21	0.54
24:DA:271(C):U:O2	24:DA:271(C):U:H2'	2.07	0.54
24:DA:411:G:H4'	24:DA:412:A:C5'	2.36	0.54
24:DA:582:G:H2'	24:DA:583:G:H8	1.72	0.54
24:DA:881:G:H3'	24:DA:882:G:C5'	2.33	0.54
24:DA:1371:G:O2'	24:DA:1372:U:C5	2.59	0.54
24:DA:1558:A:HO2'	24:DA:1559:G:P	2.30	0.54
24:DA:2319:G:C4'	24:DA:2320:A:OP1	2.54	0.54
24:DA:2584:U:H3'	24:DA:2584:U:O2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2867:G:H2'	24:DA:2868:A:OP2	2.07	0.54
26:DD:31:LYS:O	26:DD:35:LYS:O	2.24	0.54
26:DD:65:ILE:HD13	26:DD:65:ILE:C	2.32	0.54
28:DF:32:LEU:HD12	28:DF:36:VAL:HG23	1.89	0.54
29:DG:114:ILE:HD11	29:DG:140:ILE:HD12	1.89	0.54
44:DV:102:LEU:HD22	44:DV:156:LYS:HZ1	1.70	0.54
45:D3:56:ASP:O	45:D3:57:PHE:HB2	2.06	0.54
46:DZ:83:GLU:OE1	46:DZ:85:LEU:HD23	2.07	0.54
47:DW:31:GLU:HB2	47:DW:53:LEU:HD11	1.89	0.54
1:AA:625:G:H4'	16:AS:16:HIS:CD2	2.43	0.54
1:AA:792:A:C4	1:AA:794:A:N6	2.75	0.54
2:AE:103:THR:HG22	2:AE:104:ASN:N	2.21	0.54
2:AE:163:PHE:HA	2:AE:185:ILE:O	2.07	0.54
3:AF:85:ARG:HA	3:AF:85:ARG:NE	2.22	0.54
7:AJ:41:ARG:HH11	7:AJ:41:ARG:HG3	1.73	0.54
9:AL:56:LEU:HD23	9:AL:56:LEU:N	2.22	0.54
9:AL:78:LYS:HB2	9:AL:78:LYS:NZ	2.22	0.54
11:AN:29:ILE:HG22	11:AN:44:SER:CB	2.35	0.54
12:AO:46:LYS:CG	12:AO:47:LYS:H	2.19	0.54
12:AO:127:GLU:O	12:AO:129:ALA:N	2.41	0.54
17:AT:63:ARG:HG2	17:AT:64:PRO:N	2.22	0.54
24:BA:189:G:H1	24:BA:205:G:HO2'	1.45	0.54
24:BA:194:G:H2'	24:BA:195:A:H5'	1.90	0.54
24:BA:582:G:H2'	24:BA:583:G:H8	1.72	0.54
24:BA:834:C:H2'	24:BA:835:A:H8	1.72	0.54
24:BA:1272:A:C2	24:BA:1618:A:C2	2.94	0.54
24:BA:1278:A:H2'	24:BA:1279:G:H8	1.73	0.54
24:BA:1397:U:O2'	24:BA:1398:C:OP1	2.26	0.54
24:BA:1652:A:H3'	24:BA:1653:G:C8	2.42	0.54
24:BA:2061:G:HO2'	24:BA:2062:A:P	2.30	0.54
24:BA:2748:A:O2'	30:BH:66:GLY:HA3	2.07	0.54
26:BD:35:LYS:NZ	26:BD:64:ILE:O	2.40	0.54
26:BD:153:ALA:O	26:BD:154:LYS:HG3	2.08	0.54
27:BE:60:ASN:C	27:BE:62:PRO:CD	2.68	0.54
29:BG:45:GLU:C	29:BG:47:LYS:H	2.16	0.54
29:BG:112:PRO:O	29:BG:114:ILE:N	2.37	0.54
29:BG:143:GLU:CD	29:BG:143:GLU:H	2.15	0.54
30:BH:125:VAL:CG1	30:BH:126:PRO:CG	2.85	0.54
37:BQ:53:SER:HA	37:BQ:58:LEU:HD21	1.88	0.54
39:B1:58:ARG:HG2	39:B1:62:ILE:HD11	1.89	0.54
39:B1:91:ASP:OD2	39:B1:96:ALA:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:B1:98:LEU:CB	39:B1:102:GLU:HB2	2.37	0.54
42:BT:65:ARG:HH11	42:BT:65:ARG:HG3	1.72	0.54
43:BU:36:ALA:HA	43:BU:69:ALA:N	2.22	0.54
48:BX:19:GLN:HE22	48:BX:52:HIS:CE1	2.25	0.54
49:B4:36:CYS:O	49:B4:41:PRO:HG2	2.08	0.54
51:B6:31:PRO:O	51:B6:32:ASN:HB2	2.07	0.54
1:CA:775:G:O2'	1:CA:776:G:H5'	2.07	0.54
1:CA:825:G:H2'	1:CA:826:C:C6	2.42	0.54
1:CA:1534:A:N3	1:CA:1535:C:N4	2.53	0.54
2:CE:134:GLU:O	2:CE:138:LEU:HD12	2.07	0.54
12:CO:62:SER:C	12:CO:64:TYR:H	2.15	0.54
14:CQ:8:GLU:C	14:CQ:10:ALA:H	2.14	0.54
14:CQ:15:LYS:O	14:CQ:16:PHE:O	2.24	0.54
15:CR:8:LYS:HB2	15:CR:8:LYS:HZ2	1.71	0.54
15:CR:65:ARG:HB2	15:CR:65:ARG:NH1	2.20	0.54
15:CR:77:ARG:HA	15:CR:80:ALA:CB	2.36	0.54
22:CC:75:C:OP1	24:DA:2602:A:OP1	2.24	0.54
22:CD:9:G:N2	22:CD:45:G:N7	2.55	0.54
24:DA:8:A:H5"	32:DM:51:PHE:HZ	1.73	0.54
24:DA:547:A:H2'	24:DA:548:A:N9	2.22	0.54
24:DA:890:A:O2'	24:DA:892:G:C8	2.60	0.54
24:DA:2111:C:C5	24:DA:2145:C:N3	2.76	0.54
24:DA:2287:A:O2'	24:DA:2288:A:H3'	2.07	0.54
24:DA:2531:A:H2'	24:DA:2531:A:N3	2.22	0.54
24:DA:2657:A:N9	24:DA:2665:A:N6	2.55	0.54
30:DH:86:GLU:HG3	30:DH:165:ALA:CB	2.38	0.54
31:DK:2:LYS:HA	31:DK:20:ASP:CB	2.36	0.54
33:DN:53:LYS:HD2	33:DN:56:ASP:OD1	2.08	0.54
34:DO:106:LEU:O	34:DO:107:LYS:HD3	2.07	0.54
40:D2:52:VAL:O	40:D2:54:GLY:N	2.39	0.54
43:DU:95:LYS:NZ	43:DU:95:LYS:HB2	2.21	0.54
50:D5:55:ARG:HD3	50:D5:56:LYS:H	1.73	0.54
22:CB:49:C:C2	22:CB:60:A:H1'	2.42	0.54
1:AA:521:G:O2'	1:AA:522:C:H5'	2.06	0.54
1:AA:820:U:C4'	1:AA:821:G:OP2	2.55	0.54
1:AA:960:U:C2'	1:AA:961:U:OP2	2.56	0.54
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.06	0.54
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.07	0.54
1:AA:1248:A:H2'	9:AL:70:LYS:NZ	2.22	0.54
2:AE:12:GLU:C	2:AE:14:GLY:N	2.62	0.54
2:AE:130:ARG:HG2	2:AE:130:ARG:HH11	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:94:LEU:C	3:AF:94:LEU:HD12	2.32	0.54
4:AG:13:ARG:HD2	4:AG:38:TYR:O	2.08	0.54
4:AG:128:VAL:C	4:AG:130:GLY:N	2.66	0.54
11:AN:15:ALA:O	11:AN:16:SER:CB	2.55	0.54
12:AO:124:LYS:HG3	12:AO:125:PRO:N	2.22	0.54
15:AR:10:LYS:HE3	15:AR:10:LYS:O	2.06	0.54
19:AV:67:VAL:HG23	49:B4:60:GLN:HE22	1.71	0.54
23:A1:19:A:H5'	23:A1:19:A:H8	1.71	0.54
24:BA:603:A:H1'	24:BA:604:G:O4'	2.08	0.54
24:BA:680:G:H2'	24:BA:681:G:C8	2.42	0.54
24:BA:1299:G:H5"	24:BA:1300:U:OP1	2.07	0.54
24:BA:2291:U:H2'	24:BA:2292:C:C6	2.43	0.54
24:BA:2296:U:OP2	37:BQ:9:ARG:NH1	2.40	0.54
24:BA:2522:U:O2'	24:BA:2647:U:H5"	2.07	0.54
25:BB:95:U:H3'	25:BB:95:U:C6	2.42	0.54
26:BD:146:GLU:HG2	26:BD:152:GLY:C	2.33	0.54
26:BD:166:GLN:HE21	26:BD:166:GLN:CA	2.18	0.54
27:BE:8:LYS:HG2	27:BE:192:ASN:HA	1.89	0.54
27:BE:76:ARG:HG2	27:BE:195:LEU:HD22	1.89	0.54
30:BH:102:ALA:HB1	30:BH:115:VAL:C	2.32	0.54
34:BO:112:LEU:O	34:BO:112:LEU:HD13	2.07	0.54
35:BP:62:GLY:HA2	35:BP:107:ALA:O	2.07	0.54
35:BP:141:GLN:CB	44:BV:73:GLN:HG2	2.38	0.54
37:BQ:24:LEU:N	37:BQ:24:LEU:HD22	2.22	0.54
44:BV:98:MET:HE2	44:BV:100:VAL:HG22	1.89	0.54
45:B3:37:LEU:N	45:B3:59:LEU:O	2.27	0.54
48:BX:24:LYS:HE3	48:BX:24:LYS:CA	2.35	0.54
50:B5:45:VAL:CG1	50:B5:56:LYS:HG3	2.37	0.54
1:CA:69:G:C2	1:CA:73:G:C8	2.95	0.54
1:CA:342:C:O2'	1:CA:343:U:H5'	2.07	0.54
1:CA:595:G:H5"	1:CA:596:C:OP1	2.06	0.54
1:CA:1237:C:C4'	1:CA:1334:G:N2	2.70	0.54
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.42	0.54
3:CF:43:LEU:O	3:CF:47:LEU:HB3	2.07	0.54
4:CG:19:LEU:HD23	4:CG:19:LEU:N	2.23	0.54
4:CG:94:LEU:H	4:CG:94:LEU:CD1	2.08	0.54
9:CL:9:ARG:HB2	9:CL:14:VAL:HG22	1.88	0.54
19:CV:68:GLY:O	49:D4:68:ARG:HG2	2.07	0.54
24:DA:718:A:H2'	24:DA:719:C:H5'	1.89	0.54
24:DA:1060:U:O2'	24:DA:1062:G:H5'	2.08	0.54
24:DA:1287:A:N7	36:D0:107:ASP:HB2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1443:G:N2	24:DA:1549:C:C2	2.75	0.54
24:DA:2210:G:H5'	24:DA:2211:G:OP2	2.06	0.54
24:DA:2788:C:O2'	24:DA:2809:A:N3	2.34	0.54
26:DD:118:VAL:HG22	26:DD:119:ALA:H	1.72	0.54
26:DD:263:ARG:HB2	26:DD:263:ARG:HH11	1.67	0.54
31:DK:94:ALA:HB1	31:DK:111:PRO:HB2	1.89	0.54
32:DM:42:TRP:CD1	39:D1:63:VAL:HG11	2.42	0.54
34:DO:65:ARG:HH21	53:D8:15:LYS:HB2	1.72	0.54
34:DO:114:ILE:HD11	34:DO:130:PHE:HE1	1.70	0.54
35:DP:79:LEU:C	35:DP:79:LEU:CD2	2.80	0.54
36:D0:12:ARG:HH11	36:D0:12:ARG:HG3	1.71	0.54
36:D0:28:LEU:HD13	36:D0:28:LEU:O	2.08	0.54
37:DQ:13:ARG:O	37:DQ:13:ARG:HD2	2.06	0.54
37:DQ:111:GLU:HA	37:DQ:111:GLU:OE1	2.07	0.54
38:DR:98:LYS:HB3	38:DR:100:TYR:CE1	2.43	0.54
41:DS:80:PRO:O	41:DS:100:THR:CG2	2.55	0.54
42:DT:65:ARG:HD3	42:DT:65:ARG:H	1.70	0.54
43:DU:2:ARG:HG2	43:DU:2:ARG:NH1	2.22	0.54
43:DU:97:ARG:NH2	43:DU:98:VAL:CB	2.65	0.54
46:DZ:92:LYS:O	46:DZ:94:LEU:N	2.41	0.54
53:D8:56:GLU:O	53:D8:57:ARG:C	2.50	0.54
22:CB:21:U:H3'	22:CB:22:A:H5'	1.89	0.54
1:AA:57:G:H2'	1:AA:58:C:H6	1.71	0.54
1:AA:284:G:H2'	1:AA:285:G:H8	1.71	0.54
1:AA:687:A:H4'	1:AA:688:G:O5'	2.07	0.54
1:AA:842:C:C4'	1:AA:843:U:OP1	2.51	0.54
1:AA:998:G:H2'	1:AA:998(A):C:C6	2.43	0.54
2:AE:98:LEU:O	2:AE:101:MET:HG2	2.08	0.54
3:AF:16:ARG:HH11	3:AF:16:ARG:H	1.55	0.54
3:AF:118:GLN:O	3:AF:122:GLU:HG3	2.08	0.54
7:AJ:79:ARG:HG2	7:AJ:80:VAL:N	2.23	0.54
8:AK:84:ARG:HH11	8:AK:84:ARG:CG	2.20	0.54
24:BA:654(C):G:H2'	24:BA:654(C):G:N3	2.22	0.54
24:BA:654(V):A:O2'	24:BA:655:A:H5'	2.08	0.54
24:BA:1011:G:OP2	39:B1:70:ARG:NH2	2.40	0.54
24:BA:1171:G:H1'	24:BA:1173:G:C5'	2.37	0.54
24:BA:1277:G:O2'	36:B0:24:GLN:HG2	2.07	0.54
24:BA:1300:U:O2'	24:BA:1301:A:OP2	2.24	0.54
24:BA:2418:A:H2'	24:BA:2419:U:C6	2.43	0.54
24:BA:2839:G:H5'	36:B0:46:GLY:HA2	1.89	0.54
26:BD:198:ASN:C	26:BD:200:ASP:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:2:LYS:HA	31:BK:20:ASP:CA	2.33	0.54
32:BM:98:VAL:HG23	32:BM:99:LEU:N	2.22	0.54
37:BQ:102:ALA:C	37:BQ:104:GLY:H	2.15	0.54
40:B2:6:LYS:HB2	40:B2:11:GLN:HG2	1.88	0.54
41:BS:38:TYR:O	50:B5:28:PRO:HB3	2.07	0.54
42:BT:65:ARG:HG3	42:BT:65:ARG:NH1	2.23	0.54
43:BU:67:LEU:HD11	43:BU:71:LYS:HE2	1.90	0.54
51:B6:52:VAL:HG13	51:B6:53:LYS:N	2.21	0.54
52:B7:28:ARG:HH11	52:B7:28:ARG:CG	2.19	0.54
53:B8:47:LYS:C	53:B8:48:PHE:HD1	2.15	0.54
1:CA:31:G:N2	1:CA:47:C:H5"	2.22	0.54
1:CA:50:A:O2'	1:CA:52:G:H8	1.90	0.54
1:CA:453:A:H62	1:CA:479:C:H42	1.55	0.54
1:CA:707:C:H2'	1:CA:708:C:C6	2.43	0.54
1:CA:826:C:H2'	1:CA:827:U:O2	2.06	0.54
2:CE:170:GLU:HA	2:CE:172:ILE:HD12	1.90	0.54
7:CJ:46:ALA:HB2	7:CJ:117:ALA:HB1	1.88	0.54
8:CK:51:VAL:HG11	8:CK:60:ARG:CG	2.37	0.54
8:CK:97:VAL:CG1	8:CK:98:LYS:N	2.70	0.54
9:CL:66:ARG:HG2	9:CL:66:ARG:NH1	2.22	0.54
10:CM:32:ALA:O	10:CM:33:GLN:O	2.25	0.54
11:CN:24:SER:HB3	11:CN:27:ASN:O	2.08	0.54
14:CQ:13:THR:N	14:CQ:14:PRO:HD2	2.22	0.54
19:CV:15:LEU:CD2	19:CV:15:LEU:H	2.21	0.54
24:DA:596:G:H2'	24:DA:597:U:O4'	2.07	0.54
24:DA:612:G:C2	24:DA:613:U:O2	2.60	0.54
24:DA:1095:A:N3	24:DA:1095:A:H2'	2.22	0.54
24:DA:1142(A):A:C8	24:DA:1144:G:N7	2.75	0.54
26:DD:72:LYS:O	26:DD:73:VAL:C	2.51	0.54
26:DD:124:PRO:HB2	26:DD:126:GLN:NE2	2.22	0.54
26:DD:155:LEU:HD23	26:DD:177:LEU:CD2	2.36	0.54
28:DF:127:GLU:O	28:DF:129:PHE:N	2.39	0.54
31:DK:64:GLU:O	31:DK:67:ARG:HB3	2.08	0.54
34:DO:104:GLY:C	34:DO:105:LEU:HD12	2.31	0.54
39:D1:58:ARG:NH1	39:D1:93:LYS:HE2	2.22	0.54
44:DV:5:LEU:O	44:DV:6:LYS:CB	2.56	0.54
48:DX:2:PRO:O	48:DX:3:ARG:O	2.25	0.54
1:AA:135:C:H2'	1:AA:136:C:H5'	1.89	0.54
1:AA:792:A:O2'	1:AA:793:U:OP2	2.25	0.54
1:AA:817:C:H4'	1:AA:818:G:O5'	2.08	0.54
1:AA:848:C:O2'	1:AA:849:C:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:82:ALA:O	4:AG:83:SER:C	2.51	0.54
13:AP:7:VAL:HG23	13:AP:8:GLU:N	2.21	0.54
16:AS:17:TYR:N	16:AS:17:TYR:CD1	2.73	0.54
22:AD:76:A:O2'	24:BA:2394:C:N3	2.30	0.54
24:BA:811:U:O2	24:BA:1250:G:H3'	2.06	0.54
24:BA:919:G:H2'	24:BA:920:G:H8	1.72	0.54
24:BA:924:C:H2'	24:BA:925:C:C6	2.43	0.54
24:BA:1088:A:H4'	24:BA:1089:G:H8	1.69	0.54
24:BA:1142(A):A:C5	24:BA:1144:G:C5	2.95	0.54
24:BA:1428:C:C5	24:BA:1569:A:H5"	2.42	0.54
24:BA:2354:G:O2'	45:B3:36:ILE:HD12	2.08	0.54
24:BA:2461:C:H2'	24:BA:2462:U:C6	2.41	0.54
24:BA:2712:U:O2'	24:BA:2712(A):A:C8	2.59	0.54
24:BA:2870:C:H2'	24:BA:2871:C:C5'	2.38	0.54
27:BE:8:LYS:HE3	27:BE:188:VAL:O	2.08	0.54
27:BE:50:GLY:HA2	27:BE:78:LEU:HB3	1.89	0.54
28:BF:89:VAL:O	28:BF:91:GLY:N	2.36	0.54
30:BH:147:ASN:HD22	30:BH:147:ASN:N	2.04	0.54
36:B0:71:GLN:N	36:B0:71:GLN:HE21	2.05	0.54
42:BT:8:ILE:HD12	42:BT:8:ILE:N	2.14	0.54
42:BT:12:VAL:HG22	42:BT:17:ALA:HB2	1.89	0.54
44:BV:34:ASN:HD22	44:BV:34:ASN:H	1.55	0.54
44:BV:105:VAL:CG1	44:BV:140:ASP:N	2.70	0.54
47:BW:4:SER:CB	47:BW:5:GLU:OE2	2.55	0.54
1:CA:148:G:H2'	1:CA:149:A:H8	1.71	0.54
1:CA:162:A:N7	1:CA:163:C:H1'	2.23	0.54
1:CA:792:A:O2'	1:CA:794:A:N7	2.40	0.54
1:CA:842:C:H5'	1:CA:843:U:OP1	2.08	0.54
1:CA:956:U:H2'	1:CA:957:U:H5'	1.89	0.54
1:CA:1347:G:C2'	1:CA:1348:U:OP2	2.55	0.54
4:CG:153:ARG:NH1	4:CG:181:MET:CG	2.71	0.54
5:CH:10:MET:HE2	5:CH:13:ILE:HD13	1.90	0.54
7:CJ:137:LYS:O	7:CJ:141:VAL:HG23	2.08	0.54
8:CK:101:PRO:HG2	8:CK:133:LEU:HD11	1.89	0.54
12:CO:6:THR:OG1	12:CO:9:GLN:HG3	2.08	0.54
13:CP:82:MET:O	13:CP:83:ASP:C	2.49	0.54
16:CS:3:LYS:O	16:CS:21:VAL:HA	2.08	0.54
24:DA:26:G:C6	24:DA:27:G:C2	2.94	0.54
24:DA:27:G:N2	24:DA:512:G:C2'	2.67	0.54
24:DA:270(Z):U:O2'	24:DA:271(A):C:OP2	2.25	0.54
24:DA:1505:C:H3'	24:DA:1506:C:H6	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2063:C:H2'	24:DA:2064:C:H6	1.73	0.54
24:DA:2304:G:N2	29:DG:156:ASP:OD2	2.39	0.54
24:DA:2572:A:C8	27:DE:144:ARG:NE	2.75	0.54
24:DA:2672:G:C3'	24:DA:2673:G:H5"	2.38	0.54
24:DA:2807:G:O6	24:DA:2893:G:O6	2.25	0.54
24:DA:2873:A:H4'	24:DA:2874:C:OP1	2.07	0.54
25:DB:95:U:H2'	25:DB:96:G:C8	2.42	0.54
27:DE:176:ILE:HG22	27:DE:179:GLU:H	1.72	0.54
28:DF:62:ARG:HB3	28:DF:62:ARG:NH1	2.22	0.54
28:DF:129:PHE:O	28:DF:130:ALA:CB	2.55	0.54
29:DG:3:LEU:HD12	29:DG:4:ASP:N	2.19	0.54
30:DH:8:PRO:O	30:DH:9:ILE:HG23	2.08	0.54
30:DH:126:PRO:HD2	30:DH:127:GLU:H	1.72	0.54
34:DO:140:ALA:O	34:DO:141:ALA:HB2	2.08	0.54
39:D1:95:LEU:HD12	40:D2:11:GLN:HE21	1.72	0.54
44:DV:124:ILE:O	44:DV:126:VAL:HG13	2.07	0.54
44:DV:139:VAL:HA	44:DV:156:LYS:HE2	1.90	0.54
45:D3:49:LYS:O	45:D3:50:ASN:HB2	2.07	0.54
49:D4:47:GLN:O	49:D4:48:ARG:HB2	2.07	0.54
1:AA:432:A:H2'	1:AA:433:C:O4'	2.07	0.54
1:AA:1004:A:H2'	1:AA:1025:U:C4	2.41	0.54
1:AA:1318:A:O3'	19:AV:10:PHE:HE2	1.91	0.54
2:AE:22:LYS:O	2:AE:24:TRP:N	2.41	0.54
2:AE:69:LEU:C	2:AE:69:LEU:HD13	2.33	0.54
4:AG:4:TYR:O	4:AG:5:ILE:C	2.50	0.54
6:AI:55:ASP:HB3	6:AI:86:ARG:HH12	1.72	0.54
8:AK:6:ILE:H	8:AK:6:ILE:CD1	2.19	0.54
9:AL:85:LEU:HD12	9:AL:86:VAL:N	2.23	0.54
12:AO:111:LYS:N	12:AO:111:LYS:HD2	2.22	0.54
16:AS:14:ASN:N	16:AS:15:PRO:HD3	2.22	0.54
24:BA:370:G:H4'	24:BA:371:A:OP2	2.08	0.54
24:BA:1043:C:N3	24:BA:1112:G:N2	2.53	0.54
24:BA:1310:G:OP2	52:B7:9:ARG:CZ	2.55	0.54
24:BA:1316:U:H2'	24:BA:1317:A:H8	1.73	0.54
24:BA:1558:A:H4'	24:BA:1559:G:O5'	2.08	0.54
24:BA:1955:U:O2'	24:BA:1956:U:H5'	2.08	0.54
24:BA:2305:A:H2'	24:BA:2306:C:H5"	1.90	0.54
25:BB:72:G:N2	25:BB:103:U:C5	2.76	0.54
29:BG:9:ARG:O	29:BG:13:GLU:HG2	2.07	0.54
29:BG:13:GLU:O	29:BG:14:GLU:CB	2.55	0.54
29:BG:29:TRP:C	29:BG:31:VAL:H	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:22:GLY:CA	30:BH:37:VAL:HB	2.37	0.54
31:BK:3:VAL:CG1	31:BK:38:LEU:HA	2.33	0.54
31:BK:48:GLU:OE2	31:BK:48:GLU:C	2.51	0.54
31:BK:71:ILE:O	31:BK:71:ILE:HG23	2.06	0.54
35:BP:64:ILE:HG12	35:BP:64:ILE:O	2.07	0.54
44:BV:135:GLU:O	44:BV:136:PHE:O	2.25	0.54
1:CA:64:G:H4'	1:CA:65:U:H5'	1.88	0.54
1:CA:318:G:H2'	1:CA:319:G:H8	1.73	0.54
1:CA:321:A:H62	1:CA:328:C:HO2'	1.55	0.54
1:CA:650:G:O2'	1:CA:651:C:H5'	2.08	0.54
2:CE:83:MET:O	2:CE:85:ALA:N	2.41	0.54
3:CF:92:ALA:HB2	3:CF:99:VAL:CG1	2.37	0.54
3:CF:195:VAL:CG1	3:CF:196:LEU:N	2.71	0.54
12:CO:119:LYS:C	12:CO:120:TYR:HD1	2.16	0.54
13:CP:87:TYR:C	13:CP:89:GLY:N	2.64	0.54
24:DA:540:G:H5'	24:DA:541:C:OP2	2.08	0.54
24:DA:1250:G:O2'	24:DA:1251:C:OP1	2.23	0.54
24:DA:2298:A:H2'	24:DA:2299:G:O4'	2.07	0.54
26:DD:25:THR:O	26:DD:25:THR:HG23	2.07	0.54
26:DD:158:ALA:HB3	26:DD:161:THR:HG21	1.90	0.54
27:DE:14:ILE:HG23	27:DE:15:PHE:N	2.23	0.54
29:DG:81:LYS:O	29:DG:82:LEU:CB	2.56	0.54
30:DH:153:LYS:CE	30:DH:153:LYS:HA	2.38	0.54
36:D0:18:LEU:HD13	36:D0:18:LEU:C	2.33	0.54
39:D1:86:ALA:HB1	39:D1:88:ILE:HD11	1.90	0.54
43:DU:47:LYS:O	43:DU:49:VAL:HG23	2.08	0.54
46:DZ:53:VAL:HG12	46:DZ:54:ALA:N	2.21	0.54
50:D5:44:THR:O	50:D5:46:CYS:N	2.41	0.54
53:D8:32:LEU:O	53:D8:36:LYS:HE3	2.07	0.54
1:AA:9:G:H5'	5:AH:122:GLU:OE2	2.08	0.54
1:AA:919:A:O2'	1:AA:920:U:H5'	2.08	0.54
1:AA:1118:C:N4	1:AA:1156:G:N2	2.56	0.54
1:AA:1139:G:H5'	1:AA:1140:C:OP1	2.07	0.54
1:AA:1219:U:O2'	19:AV:34:TRP:HB3	2.07	0.54
2:AE:107:THR:HG23	2:AE:110:GLN:OE1	2.08	0.54
4:AG:31:CYS:O	4:AG:32:ALA:O	2.25	0.54
7:AJ:69:VAL:O	7:AJ:69:VAL:HG12	2.08	0.54
7:AJ:102:ARG:O	7:AJ:106:GLN:HG3	2.07	0.54
7:AJ:155:ARG:HH11	7:AJ:155:ARG:CG	2.20	0.54
8:AK:97:VAL:HA	8:AK:100:ILE:HD11	1.90	0.54
12:AO:62:SER:HB2	12:AO:64:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:21:TYR:C	13:AP:22:ILE:HG13	2.33	0.54
13:AP:92:HIS:CE1	13:AP:98:VAL:HG21	2.43	0.54
19:AV:49:ILE:O	19:AV:60:VAL:HG13	2.08	0.54
20:AW:53:LEU:HB3	20:AW:102:GLY:HA3	1.88	0.54
24:BA:226:G:H1'	24:BA:228:A:N6	2.23	0.54
24:BA:247:G:H4'	24:BA:386:G:C5	2.43	0.54
24:BA:270(R):G:H2'	24:BA:270(S):G:C8	2.42	0.54
24:BA:558:G:O2'	24:BA:559:G:H5'	2.08	0.54
24:BA:1460:A:H5"	24:BA:1461:G:OP2	2.08	0.54
24:BA:1899:G:N2	24:BA:1902:C:C4	2.75	0.54
24:BA:2051:A:N6	24:BA:2614:A:H2'	2.16	0.54
24:BA:2534:A:H5'	24:BA:2534:A:C8	2.38	0.54
25:BB:30:C:H4'	25:BB:58:A:H2	1.73	0.54
28:BF:63:LYS:HE3	28:BF:75:HIS:O	2.08	0.54
29:BG:114:ILE:HG22	29:BG:117:PHE:HB2	1.88	0.54
30:BH:77:LYS:C	30:BH:79:VAL:H	2.14	0.54
34:BO:56:SER:O	34:BO:57:THR:CG2	2.55	0.54
35:BP:21:THR:HG22	35:BP:99:PRO:O	2.07	0.54
35:BP:104:PHE:N	35:BP:104:PHE:HD1	2.04	0.54
37:BQ:42:ASP:O	37:BQ:43:GLU:HB2	2.08	0.54
39:B1:92:ARG:NH1	40:B2:11:GLN:HB2	2.22	0.54
42:BT:35:THR:O	42:BT:39:ILE:HG13	2.08	0.54
49:B4:20:ASN:O	49:B4:21:VAL:HG22	2.07	0.54
51:B6:45:LYS:HG3	51:B6:46:HIS:N	2.22	0.54
1:CA:15:G:H4'	5:CH:24:ARG:HH12	1.71	0.54
1:CA:538:G:OP1	12:CO:113:ARG:HD2	2.07	0.54
1:CA:697:U:H2'	1:CA:698:G:H5'	1.89	0.54
1:CA:872:A:C4	1:CA:874:G:N7	2.76	0.54
1:CA:1175:G:H2'	1:CA:1176:A:C8	2.43	0.54
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.08	0.54
3:CF:109:PRO:O	3:CF:115:LEU:HD12	2.08	0.54
7:CJ:13:GLN:O	7:CJ:24:THR:HG21	2.08	0.54
10:CM:61:GLU:HG3	14:CQ:58:LYS:HE2	1.90	0.54
13:CP:108:ARG:O	13:CP:109:THR:C	2.50	0.54
15:CR:32:LEU:O	15:CR:33:THR:C	2.51	0.54
16:CS:48:TRP:O	16:CS:49:LEU:HB2	2.06	0.54
18:CU:51:LEU:HD22	18:CU:55:ARG:HD2	1.89	0.54
24:DA:593:G:H2'	24:DA:594:U:C6	2.43	0.54
24:DA:1019:U:O2'	24:DA:1021:A:C2	2.60	0.54
24:DA:1279:G:C4'	36:D0:31:HIS:HD2	2.17	0.54
24:DA:1483:G:H2'	24:DA:1484:G:H8	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2126:A:O2'	24:DA:2127:G:P	2.65	0.54
24:DA:2314:C:H2'	24:DA:2315:G:H8	1.71	0.54
24:DA:2646:C:OP2	24:DA:2646:C:H6	1.91	0.54
26:DD:80:ALA:HB3	26:DD:94:LEU:HD13	1.88	0.54
26:DD:130:ALA:C	26:DD:131:LEU:HD12	2.33	0.54
26:DD:206:LEU:O	26:DD:211:ARG:NH1	2.38	0.54
31:DK:57:ARG:HB2	31:DK:57:ARG:CZ	2.36	0.54
34:DO:24:GLY:O	34:DO:25:SER:HB3	2.06	0.54
34:DO:124:LYS:HA	34:DO:143:GLY:O	2.08	0.54
35:DP:39:PRO:HB3	35:DP:99:PRO:HD3	1.89	0.54
40:D2:91:TYR:C	40:D2:91:TYR:HD1	2.16	0.54
44:DV:7:ALA:O	44:DV:8:TYR:CD2	2.61	0.54
49:D4:42:PHE:O	49:D4:43:TYR:C	2.51	0.54
49:D4:65:ASP:O	49:D4:66:SER:HB3	2.07	0.54
51:D6:17:LYS:O	51:D6:18:ARG:HB2	2.08	0.54
1:AA:713:G:N2	1:AA:777:A:H4'	2.22	0.54
1:AA:754:C:O2	1:AA:754:C:C3'	2.56	0.54
1:AA:783:C:N4	1:AA:800:G:N2	2.55	0.54
1:AA:1327:C:H2'	1:AA:1328:C:H6	1.72	0.54
1:AA:1347:G:O2'	1:AA:1348:U:P	2.66	0.54
1:AA:1374:A:H2'	1:AA:1375:A:H5'	1.89	0.54
2:AE:55:PHE:HE1	2:AE:218:ALA:HA	1.72	0.54
2:AE:128:GLU:C	2:AE:130:ARG:H	2.16	0.54
3:AF:15:THR:HG23	3:AF:16:ARG:NH1	2.23	0.54
5:AH:51:VAL:CG2	5:AH:52:PRO:HD3	2.34	0.54
7:AJ:47:CYS:HB3	7:AJ:58:PRO:HG3	1.90	0.54
14:AQ:51:GLY:C	14:AQ:53:LEU:H	2.16	0.54
19:AV:42:PRO:HG2	49:B4:63:TYR:CE2	2.42	0.54
19:AV:49:ILE:O	19:AV:60:VAL:HG22	2.08	0.54
24:BA:71:A:O2'	24:BA:72:U:OP2	2.26	0.54
24:BA:289:A:H2'	24:BA:289:A:N3	2.22	0.54
24:BA:481:G:H2'	24:BA:507:A:N1	2.23	0.54
24:BA:1047:G:H1'	24:BA:1111:A:N1	2.23	0.54
24:BA:1246:A:O2'	28:BF:45:ARG:NH2	2.40	0.54
24:BA:2314:C:H2'	24:BA:2315:G:H8	1.72	0.54
24:BA:2656:U:C5	24:BA:2657:A:N7	2.76	0.54
24:BA:2770:G:H5"	24:BA:2771:C:OP2	2.07	0.54
24:BA:2777:G:H4'	24:BA:2778:A:C5'	2.38	0.54
24:BA:2808:U:H2'	24:BA:2809:A:C5'	2.38	0.54
28:BF:28:ILE:CA	28:BF:112:MET:HE3	2.36	0.54
28:BF:117:ARG:HD3	28:BF:120:GLU:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:38:LEU:HD12	31:BK:38:LEU:N	2.19	0.54
31:BK:56:LYS:HD2	31:BK:56:LYS:C	2.32	0.54
34:BO:107:LYS:C	34:BO:109:GLY:H	2.16	0.54
37:BQ:100:ALA:HA	37:BQ:103:GLU:HG3	1.89	0.54
38:BR:105:LEU:HD22	38:BR:109:GLU:HG3	1.90	0.54
43:BU:94:LYS:NZ	43:BU:101:LYS:HZ3	2.04	0.54
44:BV:26:GLY:HA2	44:BV:85:HIS:CE1	2.42	0.54
47:BW:15:LYS:HE3	47:BW:67:LYS:CE	2.37	0.54
48:BX:8:LEU:CD1	48:BX:31:LEU:HD12	2.38	0.54
1:CA:186(C):G:H2'	1:CA:186(D):C:C6	2.43	0.54
1:CA:280:C:H4'	1:CA:281:G:OP2	2.08	0.54
1:CA:447:G:H2'	1:CA:485:G:N2	2.23	0.54
1:CA:651:C:H2'	1:CA:652:U:C6	2.43	0.54
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.07	0.54
1:CA:1094:G:C2'	1:CA:1095:U:OP2	2.56	0.54
1:CA:1148:U:OP1	9:CL:7:THR:HG21	2.08	0.54
1:CA:1151:A:H2'	1:CA:1152:A:C8	2.42	0.54
1:CA:1349:A:OP2	9:CL:118:LYS:NZ	2.39	0.54
2:CE:37:ASN:N	2:CE:37:ASN:ND2	2.52	0.54
3:CF:37:GLN:HE22	14:CQ:47:LEU:HD22	1.73	0.54
5:CH:101:ILE:HG12	5:CH:101:ILE:O	2.08	0.54
6:CI:32:ASN:N	6:CI:32:ASN:ND2	2.52	0.54
7:CJ:102:ARG:O	7:CJ:106:GLN:HG3	2.08	0.54
9:CL:43:ALA:C	9:CL:45:ALA:H	2.16	0.54
13:CP:30:ALA:O	13:CP:31:LYS:C	2.49	0.54
24:DA:270(F):U:H2'	24:DA:270(G):C:C6	2.43	0.54
24:DA:623:G:H2'	24:DA:624:C:H6	1.73	0.54
24:DA:888:C:H5'	24:DA:889:C:O5'	2.08	0.54
24:DA:1061:U:C5'	24:DA:1070:A:H1'	2.38	0.54
24:DA:1066:U:H2'	24:DA:1066:U:O2	2.06	0.54
24:DA:1203:G:H5'	34:DO:3:LEU:HD12	1.90	0.54
24:DA:1795:C:O2	26:DD:255:LYS:HE2	2.06	0.54
24:DA:2052:G:H4'	27:DE:143:ASN:O	2.08	0.54
24:DA:2131:G:C5'	24:DA:2132:U:H4'	2.38	0.54
24:DA:2317:C:O2'	24:DA:2318:G:H5'	2.08	0.54
25:DB:12:C:C4'	25:DB:13:A:OP1	2.55	0.54
25:DB:33:G:H5'	29:DG:2:PRO:HG3	1.89	0.54
25:DB:116:G:H4'	37:DQ:54:LEU:HD13	1.89	0.54
26:DD:183:ARG:HG2	26:DD:183:ARG:NH1	2.11	0.54
26:DD:211:ARG:HD2	26:DD:214:TRP:CZ3	2.43	0.54
29:DG:7:LEU:HD12	29:DG:104:GLU:HA	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DM:7:LYS:HD3	32:DM:9:VAL:CA	2.38	0.54
32:DM:68:GLU:HG2	32:DM:88:GLU:CD	2.33	0.54
33:DN:49:ARG:HB3	33:DN:49:ARG:NH1	2.23	0.54
34:DO:14:LYS:O	34:DO:15:ARG:C	2.51	0.54
34:DO:92:GLU:HA	34:DO:123:LEU:CD2	2.38	0.54
42:DT:41:ASN:N	42:DT:41:ASN:ND2	2.56	0.54
44:DV:136:PHE:HD1	44:DV:137:ILE:N	2.05	0.54
51:D6:20:ASN:CG	51:D6:21:TYR:N	2.66	0.54
1:AA:191:G:O2'	1:AA:192:U:H5'	2.08	0.54
1:AA:713:G:N2	1:AA:777:A:C4'	2.66	0.54
1:AA:986:A:H1'	19:AV:54:GLY:O	2.07	0.54
1:AA:1313:U:OP2	19:AV:6:LYS:HE3	2.08	0.54
1:AA:1381:U:H1'	7:AJ:79:ARG:NH1	2.23	0.54
2:AE:164:VAL:HG12	2:AE:165:VAL:H	1.72	0.54
2:AE:196:LEU:HD13	2:AE:197:VAL:HG23	1.90	0.54
7:AJ:35:LYS:HB3	7:AJ:38:LEU:HD13	1.89	0.54
7:AJ:138:LYS:HE2	7:AJ:142:GLU:OE1	2.08	0.54
16:AS:54:GLU:CD	16:AS:54:GLU:N	2.65	0.54
24:BA:72:U:H1'	47:BW:58:ALA:CB	2.38	0.54
24:BA:403:U:O2'	24:BA:404:C:P	2.66	0.54
24:BA:1324:G:N2	24:BA:1331:A:C4	2.76	0.54
24:BA:1418:G:H8	24:BA:1418:G:O5'	1.90	0.54
24:BA:2145:C:C5	24:BA:2147:G:N2	2.76	0.54
24:BA:2250:G:C5	35:BP:82:ARG:CD	2.86	0.54
26:BD:267:SER:O	26:BD:269:PHE:N	2.41	0.54
27:BE:4:ILE:HD11	27:BE:96:PHE:CE2	2.40	0.54
27:BE:16:ARG:O	27:BE:17:ASP:HB2	2.06	0.54
28:BF:29:ASN:C	28:BF:112:MET:HE1	2.32	0.54
29:BG:29:TRP:C	29:BG:31:VAL:N	2.64	0.54
29:BG:78:SER:O	29:BG:79:ASN:C	2.51	0.54
31:BK:29:TYR:HE1	31:BK:33:ARG:NE	2.06	0.54
31:BK:97:ILE:O	31:BK:100:ALA:HB3	2.08	0.54
39:B1:104:GLN:H	39:B1:104:GLN:CD	2.15	0.54
40:B2:76:LYS:HD2	40:B2:80:GLN:O	2.08	0.54
41:BS:1:MET:HG3	41:BS:2:GLU:N	2.22	0.54
41:BS:92:ARG:HG2	41:BS:92:ARG:HH11	1.73	0.54
47:BW:41:ILE:CD1	47:BW:44:LEU:HD12	2.38	0.54
1:CA:414:A:H2'	1:CA:415:A:O4'	2.07	0.54
1:CA:671:G:O2'	1:CA:672:U:H5'	2.07	0.54
1:CA:975:A:H62	10:CM:60:ARG:HH12	1.56	0.54
1:CA:1418:A:H2	24:DA:1948:G:N3	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:102:LEU:HB3	2:CE:180:LEU:HD12	1.90	0.54
7:CJ:12:LEU:HD22	7:CJ:12:LEU:N	2.23	0.54
15:CR:21:ASP:OD1	15:CR:24:SER:HB2	2.07	0.54
18:CU:29:PHE:N	18:CU:29:PHE:CD2	2.76	0.54
18:CU:39:VAL:HA	18:CU:42:ARG:NH1	2.23	0.54
19:CV:62:ILE:C	19:CV:63:THR:HG22	2.32	0.54
24:DA:612:G:N2	24:DA:617:G:C5	2.76	0.54
24:DA:623:G:H2'	24:DA:624:C:C6	2.43	0.54
24:DA:1088:A:H3'	24:DA:1088:A:N3	2.23	0.54
24:DA:1112:G:H2'	24:DA:1113:U:H6	1.73	0.54
24:DA:1673:U:O2'	24:DA:1674:G:H5'	2.08	0.54
24:DA:2233:U:H2'	24:DA:2234:G:C8	2.43	0.54
24:DA:2645:G:H4'	24:DA:2732:G:O2'	2.08	0.54
27:DE:14:ILE:HD11	38:DR:14:TYR:CZ	2.42	0.54
27:DE:51:PHE:O	27:DE:74:PRO:HB3	2.08	0.54
30:DH:86:GLU:H	30:DH:86:GLU:CD	2.16	0.54
30:DH:151:ILE:C	30:DH:152:ARG:O	2.49	0.54
33:DN:55:GLY:O	33:DN:56:ASP:C	2.50	0.54
33:DN:78:ARG:O	38:DR:73:GLU:HG3	2.08	0.54
43:DU:87:LYS:HB2	43:DU:87:LYS:NZ	2.23	0.54
46:DZ:80:LEU:C	46:DZ:81:LYS:CE	2.77	0.54
46:DZ:91:LYS:HA	46:DZ:91:LYS:CE	2.37	0.54
47:DW:41:ILE:HD11	47:DW:44:LEU:HB2	1.89	0.54
51:D6:12:GLU:HG2	51:D6:52:VAL:O	2.07	0.54
53:D8:63:PRO:O	53:D8:64:TYR:HB2	2.07	0.54
1:AA:181:G:O2'	1:AA:182:U:P	2.66	0.54
1:AA:521:G:O5'	12:AO:73:GLU:HG2	2.06	0.54
1:AA:821:G:H2'	1:AA:822:C:H6	1.72	0.54
2:AE:111:ARG:HG2	2:AE:111:ARG:NH1	2.23	0.54
2:AE:200:ILE:CG2	2:AE:201:ILE:N	2.71	0.54
3:AF:23:TYR:O	3:AF:24:ALA:HB2	2.06	0.54
4:AG:27:TYR:O	4:AG:28:SER:CB	2.54	0.54
5:AH:36:ASP:OD2	5:AH:40:ARG:HB2	2.08	0.54
6:AI:53:ALA:C	6:AI:55:ASP:H	2.16	0.54
17:AT:95:TYR:HA	17:AT:98:LEU:HD12	1.90	0.54
24:BA:50:U:O2'	24:BA:51:G:OP1	2.22	0.54
24:BA:125:G:C6	52:B7:10:ARG:HG3	2.44	0.54
24:BA:709:U:H2'	24:BA:710:G:H8	1.73	0.54
24:BA:790:C:O2'	24:BA:791:C:P	2.66	0.54
24:BA:2122:U:H2'	24:BA:2123:G:O4'	2.07	0.54
24:BA:2314:C:H5'	29:BG:38:VAL:HG11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2347:C:H2'	24:BA:2348:U:C6	2.43	0.54
24:BA:2352:A:H2'	24:BA:2353:G:H5'	1.90	0.54
24:BA:2513:G:H2'	24:BA:2514:U:C6	2.42	0.54
24:BA:2656:U:N3	24:BA:2665:A:C2	2.75	0.54
24:BA:2657:A:C4	24:BA:2665:A:N6	2.75	0.54
26:BD:267:SER:C	26:BD:269:PHE:N	2.62	0.54
30:BH:92:ILE:HD12	30:BH:92:ILE:N	2.23	0.54
34:BO:14:LYS:O	34:BO:14:LYS:CD	2.56	0.54
34:BO:26:GLY:O	34:BO:27:HIS:C	2.50	0.54
37:BQ:99:LYS:HE2	37:BQ:103:GLU:OE2	2.08	0.54
40:B2:73:SER:HB2	40:B2:82:ARG:O	2.08	0.54
40:B2:85:LYS:HG3	40:B2:86:GLY:N	2.23	0.54
42:BT:27:THR:OG1	42:BT:80:ILE:HG22	2.07	0.54
44:BV:10:ARG:HB3	44:BV:36:LYS:O	2.08	0.54
44:BV:40:ASP:HB3	44:BV:43:GLU:CG	2.38	0.54
44:BV:43:GLU:O	44:BV:47:VAL:HG23	2.08	0.54
44:BV:127:LYS:CB	44:BV:162:GLU:HG3	2.38	0.54
47:BW:46:GLN:C	47:BW:49:LYS:NZ	2.66	0.54
50:B5:52:TYR:O	50:B5:53:ALA:HB2	2.08	0.54
1:CA:191:G:N9	20:CW:105:SER:HB3	2.23	0.54
1:CA:1000:A:H2'	1:CA:1001:G:H5'	1.89	0.54
1:CA:1137:C:O2'	1:CA:1138:G:C2	2.61	0.54
1:CA:1446:A:H5'	1:CA:1446:A:N3	2.23	0.54
3:CF:53:ALA:HB2	3:CF:115:LEU:HD21	1.90	0.54
3:CF:134:ILE:CD1	3:CF:153:VAL:HG21	2.35	0.54
3:CF:134:ILE:HG21	3:CF:168:ALA:HB3	1.89	0.54
4:CG:196:LEU:C	4:CG:198:VAL:N	2.66	0.54
9:CL:13:ALA:HA	9:CL:66:ARG:O	2.08	0.54
9:CL:99:LEU:O	9:CL:101:PHE:N	2.41	0.54
13:CP:73:GLU:O	13:CP:77:ASN:N	2.33	0.54
14:CQ:40:CYS:H	14:CQ:43:CYS:HB2	1.73	0.54
17:CT:65:ILE:HD12	17:CT:65:ILE:H	1.73	0.54
24:DA:162:U:C6	24:DA:162:U:OP1	2.61	0.54
24:DA:546:C:OP1	24:DA:547:A:N6	2.41	0.54
24:DA:579:G:H2'	24:DA:580:C:C6	2.42	0.54
24:DA:660:G:O3'	28:DF:38:ARG:NH2	2.41	0.54
24:DA:747:U:C4	50:D5:2:ALA:N	2.76	0.54
24:DA:1388:G:O2'	24:DA:1389:G:H5'	2.08	0.54
24:DA:1754:C:OP1	38:DR:96:ARG:NH1	2.31	0.54
24:DA:2847:U:OP1	38:DR:98:LYS:HD3	2.08	0.54
26:DD:85:ASP:OD2	26:DD:88:ARG:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:186:GLY:O	27:DE:188:VAL:N	2.40	0.54
28:DF:63:LYS:NZ	28:DF:67:GLN:HE21	2.06	0.54
28:DF:147:GLY:O	28:DF:148:LEU:HD23	2.07	0.54
28:DF:197:ASP:O	28:DF:198:ALA:HB3	2.06	0.54
30:DH:91:GLY:O	30:DH:94:TYR:HB2	2.08	0.54
34:DO:84:ASN:ND2	34:DO:115:LEU:HD12	2.22	0.54
36:D0:38:VAL:HG22	36:D0:112:ALA:HB2	1.90	0.54
38:DR:55:ASN:O	38:DR:57:PHE:O	2.26	0.54
39:D1:24:TYR:O	39:D1:29:SER:HB3	2.08	0.54
39:D1:74:LEU:HD13	39:D1:79:PHE:HB2	1.89	0.54
43:DU:47:LYS:C	43:DU:49:VAL:H	2.16	0.54
45:D3:53:MET:HA	45:D3:58:THR:O	2.08	0.54
46:DZ:76:ARG:HG2	46:DZ:76:ARG:NH1	2.19	0.54
47:DW:16:LEU:O	47:DW:16:LEU:CG	2.49	0.54
47:DW:47:ASN:ND2	47:DW:47:ASN:N	2.54	0.54
1:AA:6:G:N2	5:AH:98:THR:HG23	2.23	0.53
1:AA:274:A:H4'	1:AA:275:G:OP1	2.07	0.53
1:AA:706:A:C4'	11:AN:29:ILE:HD11	2.38	0.53
1:AA:954:G:H2'	1:AA:955:U:H6	1.73	0.53
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.70	0.53
1:AA:1266:G:N2	1:AA:1269:A:OP2	2.41	0.53
1:AA:1313:U:P	19:AV:6:LYS:HB3	2.48	0.53
2:AE:164:VAL:CG1	2:AE:165:VAL:N	2.71	0.53
2:AE:183:PRO:HA	2:AE:198:ASP:OD1	2.07	0.53
4:AG:19:LEU:CD1	4:AG:21:LEU:HD23	2.34	0.53
4:AG:53:ASP:O	4:AG:57:ARG:NH1	2.41	0.53
6:AI:63:TYR:N	6:AI:63:TYR:CD2	2.76	0.53
9:AL:27:THR:HB	9:AL:32:ASP:CA	2.33	0.53
10:AM:56:HIS:O	10:AM:57:LYS:C	2.50	0.53
10:AM:61:GLU:OE1	14:AQ:58:LYS:HE2	2.08	0.53
19:AV:23:ASN:CB	19:AV:44:MET:HE2	2.38	0.53
19:AV:53:ASN:CB	19:AV:77:THR:HG22	2.38	0.53
19:AV:69:HIS:HB2	19:AV:74:PHE:HE2	1.73	0.53
20:AW:14:LYS:O	20:AW:18:GLN:HG3	2.07	0.53
20:AW:100:ILE:O	20:AW:102:GLY:N	2.40	0.53
22:AD:15:G:O2'	22:AD:20:U:N3	2.40	0.53
22:AD:19:G:H22	24:BA:2169:A:N6	2.06	0.53
24:BA:925:C:C3'	24:BA:926:A:H5"	2.38	0.53
24:BA:1179:C:C3'	24:BA:1180:C:C5'	2.87	0.53
24:BA:1204:A:O2'	24:BA:1205:U:P	2.65	0.53
24:BA:1314:C:H5'	24:BA:1314:C:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1444(A):A:H2'	24:BA:1444(A):A:N3	2.23	0.53
24:BA:1946:U:H2'	24:BA:1947:C:C6	2.42	0.53
24:BA:2124:G:H2'	24:BA:2125:G:H5'	1.90	0.53
24:BA:2311:A:H2'	24:BA:2312:U:H6	1.71	0.53
24:BA:2656:U:O4	24:BA:2657:A:C5	2.61	0.53
28:BF:165:ARG:NH1	28:BF:165:ARG:CB	2.70	0.53
29:BG:29:TRP:HE3	29:BG:33:ARG:NH1	2.05	0.53
34:BO:127:ALA:O	34:BO:147:LEU:HA	2.08	0.53
44:BV:59:LEU:CG	44:BV:60:GLU:H	2.20	0.53
51:B6:11:LEU:C	51:B6:24:GLU:HG2	2.32	0.53
1:CA:456:C:H2'	1:CA:457:C:H6	1.74	0.53
1:CA:728:A:C6	15:CR:54:ARG:HD2	2.43	0.53
1:CA:838:G:C5	1:CA:842:C:H1'	2.43	0.53
1:CA:878:G:H5'	8:CK:89:PRO:HG2	1.90	0.53
1:CA:1095:U:P	1:CA:1108:G:H1	2.31	0.53
1:CA:1190:G:OP1	3:CF:5:ILE:HG23	2.08	0.53
4:CG:120:LEU:HD22	4:CG:125:HIS:CB	2.38	0.53
8:CK:20:TYR:HD1	8:CK:65:TYR:HD2	1.55	0.53
10:CM:16:LEU:O	10:CM:20:ALA:HB2	2.08	0.53
10:CM:101:VAL:HG22	10:CM:101:VAL:O	2.07	0.53
14:CQ:22:THR:HB	14:CQ:33:VAL:HG11	1.88	0.53
17:CT:33:GLY:O	17:CT:34:LYS:O	2.25	0.53
19:CV:9:VAL:HG12	49:D4:66:SER:O	2.08	0.53
24:DA:152:G:H2'	24:DA:153:C:C6	2.43	0.53
24:DA:389:G:H1	34:DO:72:PRO:HD3	1.73	0.53
24:DA:445:C:H2'	24:DA:446:G:O4'	2.08	0.53
24:DA:528:A:C2	24:DA:2043:C:H4'	2.42	0.53
24:DA:896:A:C2'	24:DA:897:C:OP1	2.56	0.53
24:DA:1035:U:OP1	30:DH:59:ARG:HD2	2.08	0.53
24:DA:1559:G:H5"	24:DA:1560:G:OP2	2.09	0.53
24:DA:1829:A:H2'	24:DA:1830:C:H5'	1.90	0.53
24:DA:1972:A:H2'	24:DA:1973:G:C8	2.43	0.53
24:DA:2098:U:H2'	24:DA:2099:U:C6	2.44	0.53
24:DA:2419:U:C5'	51:D6:23:THR:HG22	2.37	0.53
27:DE:25:VAL:HG11	38:DR:11:GLU:HG2	1.90	0.53
27:DE:101:ARG:HB3	27:DE:201:THR:OG1	2.08	0.53
28:DF:31:HIS:HB2	34:DO:9:ASN:HD22	1.72	0.53
30:DH:12:PRO:O	30:DH:13:LYS:HB2	2.07	0.53
30:DH:125:VAL:HA	30:DH:126:PRO:CB	2.29	0.53
33:DN:12:ASP:OD1	33:DN:85:VAL:HG13	2.08	0.53
33:DN:68:GLU:HA	33:DN:78:ARG:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:D0:70:LEU:HD13	36:D0:75:LEU:HD11	1.88	0.53
37:DQ:25:ARG:HH12	37:DQ:42:ASP:CG	2.16	0.53
38:DR:105:LEU:O	38:DR:107:ASP:N	2.41	0.53
40:D2:66:ARG:HH11	40:D2:66:ARG:CB	2.20	0.53
42:DT:5:TYR:HE2	47:DW:30:ARG:HH11	1.56	0.53
43:DU:90:LEU:HD22	43:DU:90:LEU:H	1.73	0.53
44:DV:154:ASP:CG	44:DV:155:LEU:N	2.61	0.53
48:DX:56:VAL:CG1	48:DX:57:GLU:H	2.20	0.53
1:AA:988:G:H2'	1:AA:989:C:O4'	2.08	0.53
1:AA:1116:C:C3'	1:AA:1117:G:H5"	2.38	0.53
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.43	0.53
2:AE:42:ILE:HD12	2:AE:202:PRO:HB2	1.91	0.53
2:AE:61:LEU:CD2	2:AE:68:ILE:HG13	2.38	0.53
4:AG:145:GLU:HG3	4:AG:184:LYS:NZ	2.22	0.53
4:AG:199:ASN:O	4:AG:200:GLU:HG2	2.07	0.53
17:AT:68:ARG:HH11	17:AT:68:ARG:HG2	1.74	0.53
19:AV:64:GLU:C	19:AV:66:MET:N	2.60	0.53
20:AW:23:ARG:HA	20:AW:26:ASN:HD21	1.73	0.53
22:AC:1:C:C2'	22:AC:2:G:OP2	2.55	0.53
24:BA:128:C:H2'	24:BA:129:C:O5'	2.08	0.53
24:BA:714:U:O2	24:BA:716:A:C8	2.60	0.53
24:BA:1012:U:O2	32:BM:25:ARG:NH1	2.40	0.53
24:BA:1019:U:H3	24:BA:1142(A):A:N6	2.04	0.53
24:BA:1022:G:H22	24:BA:1142(A):A:H2	1.55	0.53
24:BA:1904:G:H2'	24:BA:1905:C:O4'	2.09	0.53
24:BA:2864:G:H2'	24:BA:2865:U:O4'	2.08	0.53
25:BB:10:C:N4	25:BB:11:C:N4	2.56	0.53
27:BE:24:THR:HG21	27:BE:186:GLY:O	2.08	0.53
27:BE:47:VAL:HG23	27:BE:84:PHE:O	2.08	0.53
27:BE:70:ALA:C	27:BE:72:VAL:H	2.12	0.53
31:BK:49:ALA:O	31:BK:53:ALA:HB2	2.07	0.53
31:BK:136:VAL:O	31:BK:136:VAL:HG13	2.08	0.53
32:BM:15:LEU:C	32:BM:15:LEU:HD13	2.33	0.53
32:BM:23:LEU:HA	32:BM:60:ILE:HG21	1.90	0.53
40:B2:67:GLY:O	40:B2:88:ARG:HD2	2.08	0.53
40:B2:83:ARG:N	40:B2:83:ARG:CD	2.71	0.53
44:BV:6:LYS:O	44:BV:7:ALA:HB2	2.08	0.53
51:B6:28:ARG:NH2	51:B6:30:THR:HG23	2.22	0.53
51:B6:52:VAL:O	51:B6:53:LYS:C	2.51	0.53
1:CA:108:G:C2	1:CA:109:A:N1	2.76	0.53
1:CA:175:C:O2'	1:CA:176:C:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:341:C:H2'	1:CA:342:C:H6	1.74	0.53
1:CA:939:G:H2'	1:CA:940:C:C6	2.43	0.53
1:CA:971:G:H22	1:CA:1363:A:P	2.31	0.53
1:CA:1067:A:O2'	1:CA:1068:G:C8	2.61	0.53
6:CI:89:MET:HG2	6:CI:89:MET:O	2.09	0.53
7:CJ:50:ILE:HG22	7:CJ:50:ILE:O	2.07	0.53
7:CJ:85:TYR:HE1	7:CJ:154:TYR:HE1	1.56	0.53
9:CL:47:LEU:HB3	9:CL:50:LEU:HD12	1.90	0.53
12:CO:42:THR:HA	12:CO:53:ARG:O	2.08	0.53
24:DA:270(C):C:O2'	24:DA:270(D):C:H5'	2.07	0.53
24:DA:270(T):G:OP1	46:DZ:97:LEU:HD22	2.08	0.53
24:DA:389:G:C6	34:DO:70:GLN:HB3	2.44	0.53
24:DA:728:G:H4'	26:DD:13:ARG:HD2	1.90	0.53
24:DA:2114:A:N6	24:DA:2119:A:H62	2.06	0.53
24:DA:2137:C:H2'	24:DA:2137:C:O2	2.07	0.53
24:DA:2139:C:H2'	24:DA:2140:C:O4'	2.08	0.53
24:DA:2345:G:O2'	24:DA:2381:C:H2'	2.07	0.53
24:DA:2543:G:H8	24:DA:2543:G:H5'	1.73	0.53
27:DE:61:ARG:O	27:DE:62:PRO:C	2.51	0.53
28:DF:51:THR:O	28:DF:93:LYS:NZ	2.38	0.53
29:DG:83:ARG:HB2	29:DG:86:MET:HE3	1.89	0.53
36:D0:70:LEU:C	36:D0:72:ASP:H	2.16	0.53
36:D0:91:GLN:O	36:D0:91:GLN:HG2	2.08	0.53
40:D2:45:THR:HG22	40:D2:45:THR:O	2.08	0.53
40:D2:91:TYR:C	40:D2:91:TYR:CD1	2.87	0.53
1:AA:210:U:O2'	1:AA:216:G:O5'	2.25	0.53
1:AA:280:C:H4'	1:AA:281:G:OP2	2.07	0.53
1:AA:753:A:H4'	1:AA:754:C:H5"	1.88	0.53
1:AA:1234:C:C4'	1:AA:1364:U:O2'	2.55	0.53
1:AA:1310:G:H2'	1:AA:1311:G:O4'	2.09	0.53
1:AA:1399:C:C2	1:AA:1502:A:N6	2.77	0.53
1:AA:1453:G:C8	20:AW:39:LYS:HE3	2.44	0.53
2:AE:162:ILE:HD13	2:AE:177:ALA:CB	2.37	0.53
2:AE:213:LEU:O	2:AE:213:LEU:HD23	2.07	0.53
3:AF:112:SER:O	3:AF:116:VAL:HG23	2.08	0.53
5:AH:26:PHE:CD1	5:AH:26:PHE:N	2.75	0.53
7:AJ:66:VAL:HG12	7:AJ:70:LYS:HE3	1.90	0.53
7:AJ:155:ARG:O	7:AJ:156:TRP:CB	2.56	0.53
11:AN:10:VAL:O	11:AN:11:LYS:CB	2.57	0.53
13:AP:35:GLU:HG3	13:AP:36:LYS:H	1.71	0.53
16:AS:20:VAL:CG2	16:AS:32:TYR:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(A):A:H5"	46:BZ:97:LEU:CD2	2.36	0.53
24:BA:817:C:H2'	24:BA:818:G:O4'	2.08	0.53
24:BA:902:C:O2'	24:BA:903:C:H5'	2.07	0.53
24:BA:1082:U:C6	24:BA:1082:U:H3'	2.43	0.53
24:BA:1471:A:C2	24:BA:1472:A:C8	2.96	0.53
24:BA:1889:A:N1	24:BA:2234:G:H1'	2.23	0.53
24:BA:2289:G:N3	24:BA:2289:G:H2'	2.23	0.53
26:BD:223:GLY:C	26:BD:225:ALA:H	2.16	0.53
27:BE:110:GLY:O	36:B0:3:HIS:NE2	2.41	0.53
30:BH:2:SER:C	30:BH:3:ARG:HG3	2.34	0.53
36:B0:21:TYR:CZ	36:B0:43:GLU:HG2	2.43	0.53
43:BU:50:ARG:HG2	43:BU:53:PRO:HG3	1.90	0.53
46:BZ:53:VAL:CG2	46:BZ:58:ILE:HD12	2.38	0.53
1:CA:465:A:N7	1:CA:467:G:O6	2.42	0.53
1:CA:601:C:O2'	1:CA:602:A:H5'	2.08	0.53
1:CA:626:U:H5"	16:CS:38:TYR:CD2	2.44	0.53
1:CA:1098:C:O2'	1:CA:1099:G:H5'	2.08	0.53
1:CA:1158:C:C2	1:CA:1160:G:N7	2.76	0.53
2:CE:140:HIS:C	2:CE:142:LEU:H	2.16	0.53
13:CP:39:ILE:HD11	13:CP:56:LEU:HB2	1.90	0.53
21:CX:14:TRP:CZ3	21:CX:15:ARG:HD3	2.43	0.53
22:CD:69:C:O2'	22:CD:70:G:H5'	2.08	0.53
24:DA:701:G:C3'	24:DA:702:G:H5"	2.39	0.53
24:DA:879:G:H2'	24:DA:880:G:O4'	2.08	0.53
24:DA:1831:G:H2'	24:DA:1832:C:H6	1.73	0.53
24:DA:1930:G:C2'	24:DA:1931:U:OP2	2.55	0.53
24:DA:2019:A:C2'	24:DA:2020:A:O5'	2.55	0.53
24:DA:2161:C:C2'	24:DA:2162:G:H5'	2.38	0.53
24:DA:2391:G:OP2	53:D8:32:LEU:HD13	2.09	0.53
24:DA:2638:G:P	27:DE:82:ARG:NH2	2.82	0.53
24:DA:2649:U:H2'	24:DA:2650:U:C6	2.43	0.53
24:DA:2776:A:H4'	24:DA:2777:G:C5'	2.39	0.53
26:DD:25:THR:HG21	26:DD:81:ALA:CB	2.38	0.53
35:DP:112:GLU:CD	35:DP:112:GLU:H	2.17	0.53
44:DV:94:GLU:CB	44:DV:130:PRO:CD	2.86	0.53
46:DZ:87:PRO:O	46:DZ:91:LYS:N	2.31	0.53
49:D4:56:VAL:HA	49:D4:60:GLN:CB	2.28	0.53
50:D5:16:ARG:NH1	50:D5:17:ASP:OD1	2.41	0.53
51:D6:11:LEU:CD1	51:D6:51:GLU:HG3	2.39	0.53
51:D6:13:CYS:O	51:D6:14:THR:HB	2.08	0.53
52:D7:10:ARG:NH1	52:D7:14:LYS:HE3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CB:8:U:O4'	22:CB:49:C:H1'	2.09	0.53
1:AA:129(A):G:N1	1:AA:188:U:H4'	2.22	0.53
1:AA:210:U:O2'	1:AA:216:G:O4'	2.26	0.53
1:AA:507:C:H2'	1:AA:508:C:C5	2.43	0.53
1:AA:1277:C:O2'	1:AA:1279:A:H1'	2.08	0.53
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.08	0.53
2:AE:92:TYR:C	2:AE:92:TYR:CD2	2.86	0.53
2:AE:101:MET:HA	2:AE:108:ILE:HG21	1.89	0.53
2:AE:229:VAL:O	2:AE:231:GLU:N	2.41	0.53
4:AG:172:PRO:O	4:AG:186:LEU:HD12	2.08	0.53
5:AH:92:LYS:HE3	8:AK:102:ARG:HH22	1.73	0.53
6:AI:52:ILE:O	6:AI:53:ALA:HB3	2.07	0.53
7:AJ:3:ARG:O	7:AJ:3:ARG:HG3	2.08	0.53
12:AO:117:ARG:CZ	12:AO:124:LYS:HA	2.39	0.53
13:AP:12:ASN:O	13:AP:13:LYS:HB2	2.08	0.53
13:AP:63:THR:HG22	13:AP:64:TRP:N	2.23	0.53
19:AV:7:LYS:CE	19:AV:8:GLY:N	2.71	0.53
24:BA:236:C:O2'	24:BA:431:U:H4'	2.08	0.53
24:BA:686:G:H5'	52:B7:11:LYS:HE2	1.89	0.53
24:BA:981:A:N1	24:BA:2027:G:O2'	2.36	0.53
24:BA:1678:G:H22	24:BA:1989:G:H1	1.55	0.53
24:BA:1827:C:H2'	24:BA:1828:G:O4'	2.08	0.53
24:BA:2016:U:H1'	50:B5:6:VAL:HG13	1.91	0.53
24:BA:2109:U:H2'	24:BA:2110:G:H8	1.73	0.53
24:BA:2572:A:OP1	27:BE:144:ARG:HB2	2.08	0.53
24:BA:2776:A:OP1	24:BA:2776:A:H3'	2.07	0.53
25:BB:40:U:N3	25:BB:43:C:H5"	2.22	0.53
26:BD:109:ASP:HB2	26:BD:196:VAL:O	2.08	0.53
28:BF:5:ALA:CB	28:BF:125:LEU:HD21	2.38	0.53
28:BF:24:LEU:O	28:BF:25:PRO:O	2.26	0.53
28:BF:62:ARG:HH21	28:BF:64:ILE:HA	1.74	0.53
34:BO:11:GLY:O	34:BO:12:ALA:CB	2.56	0.53
34:BO:52:GLU:HG2	34:BO:55:ARG:O	2.08	0.53
36:B0:12:ARG:HD3	36:B0:16:HIS:ND1	2.22	0.53
38:BR:117:ASP:C	38:BR:119:LYS:N	2.66	0.53
40:B2:76:LYS:HB2	40:B2:79:VAL:CG2	2.38	0.53
44:BV:48:PHE:CE2	44:BV:52:SER:HA	2.43	0.53
47:BW:33:MET:O	47:BW:37:PHE:HD1	1.91	0.53
1:CA:313:A:H2'	1:CA:314:C:C6	2.44	0.53
1:CA:346:G:H5"	38:DR:41:ARG:NH1	2.24	0.53
1:CA:546:G:P	4:CG:72:GLU:HB3	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1186:G:O3'	9:CL:113:LYS:NZ	2.37	0.53
2:CE:24:TRP:CE2	2:CE:26:PRO:HD3	2.43	0.53
4:CG:14:ARG:O	4:CG:14:ARG:HD3	2.09	0.53
4:CG:173:TRP:CD1	4:CG:174:LEU:HG	2.44	0.53
7:CJ:113:GLU:HB2	7:CJ:119:ARG:CG	2.35	0.53
13:CP:34:LEU:CD1	13:CP:41:PRO:HG3	2.38	0.53
22:CD:70:G:H2'	22:CD:71:C:H5'	1.90	0.53
24:DA:94:G:N3	47:DW:47:ASN:OD1	2.41	0.53
24:DA:278:A:H5'	24:DA:278:A:H8	1.72	0.53
24:DA:783:A:C3'	24:DA:783:A:C8	2.91	0.53
24:DA:783:A:C8	24:DA:783:A:H3'	2.43	0.53
24:DA:989:G:N7	48:DX:13:ILE:HD11	2.23	0.53
24:DA:1007:C:H5"	32:DM:35:ARG:NH1	2.24	0.53
24:DA:1212:G:HO2'	24:DA:1213:A:P	2.31	0.53
24:DA:1516:U:H2'	24:DA:1517:G:C8	2.43	0.53
24:DA:1786:A:C2	24:DA:2606:C:H1'	2.42	0.53
24:DA:2636:U:P	27:DE:79:ARG:HA	2.48	0.53
24:DA:2673:G:O2'	24:DA:2674:G:H5'	2.09	0.53
24:DA:2750:A:O2'	24:DA:2751:G:OP1	2.22	0.53
29:DG:121:ASN:ND2	29:DG:121:ASN:C	2.66	0.53
34:DO:88:LEU:HD23	34:DO:89:ALA:N	2.24	0.53
40:D2:22:VAL:CG1	40:D2:23:GLU:N	2.71	0.53
41:DS:28:SER:HB3	41:DS:31:GLU:HB2	1.91	0.53
44:DV:136:PHE:CD1	44:DV:136:PHE:C	2.86	0.53
1:AA:353:A:H8	1:AA:353:A:C5'	2.12	0.53
1:AA:501:C:H2'	1:AA:502:G:H8	1.72	0.53
1:AA:1024:G:N3	1:AA:1024:G:H2'	2.24	0.53
1:AA:1158:C:N3	1:AA:1160:G:N7	2.57	0.53
1:AA:1206:G:O2'	3:AF:193:TYR:HA	2.09	0.53
1:AA:1311:G:N2	1:AA:1327:C:C2	2.77	0.53
1:AA:1386:G:C2	1:AA:1387:G:C8	2.97	0.53
3:AF:47:LEU:CD2	3:AF:52:LEU:HD13	2.38	0.53
3:AF:119:ARG:HD3	3:AF:123:GLN:NE2	2.23	0.53
3:AF:119:ARG:NH2	3:AF:140:ARG:HD2	2.23	0.53
4:AG:60:GLU:OE2	4:AG:199:ASN:N	2.41	0.53
6:AI:50:TYR:CE1	18:AU:77:GLY:HA2	2.44	0.53
8:AK:6:ILE:O	8:AK:7:ALA:C	2.52	0.53
11:AN:38:ASN:N	11:AN:38:ASN:HD22	2.06	0.53
12:AO:33:ARG:HG2	12:AO:60:LEU:HD12	1.89	0.53
13:AP:73:GLU:HG3	49:B4:52:THR:CG2	2.35	0.53
13:AP:87:TYR:CE1	13:AP:91:ARG:HD3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:A1:22:A:H5'	23:A1:23:A:OP2	2.09	0.53
24:BA:271(B):G:H4'	24:BA:271(C):U:H5"	1.89	0.53
24:BA:458:G:C2'	24:BA:459:U:OP2	2.57	0.53
24:BA:565:C:H4'	24:BA:1253:A:C6	2.43	0.53
24:BA:671:C:O2'	24:BA:672:C:C5'	2.54	0.53
24:BA:1021:A:H3'	24:BA:1021:A:H8	1.74	0.53
24:BA:1385:G:HO2'	24:BA:1386:C:P	2.31	0.53
24:BA:1451:C:O2'	24:BA:1457:A:N6	2.41	0.53
24:BA:1689:A:H62	24:BA:1698:A:H2	1.56	0.53
24:BA:2061:G:O2'	24:BA:2062:A:P	2.66	0.53
24:BA:2121:G:H2'	24:BA:2122:U:C6	2.43	0.53
24:BA:2343:C:HO2'	24:BA:2373:G:HO2'	1.52	0.53
24:BA:2656:U:C5	24:BA:2664:G:N2	2.67	0.53
24:BA:2758:A:C3'	24:BA:2759:G:H5"	2.39	0.53
25:BB:56:G:OP1	29:BG:27:ASN:ND2	2.42	0.53
27:BE:8:LYS:O	27:BE:8:LYS:HG3	2.08	0.53
28:BF:162:LEU:HD12	28:BF:162:LEU:N	2.24	0.53
29:BG:160:VAL:HG12	29:BG:161:THR:H	1.70	0.53
30:BH:17:VAL:CG1	30:BH:18:GLU:H	2.13	0.53
30:BH:44:VAL:HG22	30:BH:51:ARG:HD3	1.90	0.53
31:BK:124:GLY:O	31:BK:141:LYS:HA	2.09	0.53
34:BO:112:LEU:H	34:BO:128:HIS:HD2	1.52	0.53
36:B0:84:ALA:HB3	36:B0:85:PRO:HD3	1.91	0.53
38:BR:102:ILE:HB	38:BR:110:ILE:HD11	1.91	0.53
40:B2:18:LEU:HD23	40:B2:18:LEU:C	2.33	0.53
48:BX:29:ARG:HH11	48:BX:29:ARG:HG3	1.73	0.53
49:B4:55:ARG:HG2	49:B4:56:VAL:N	2.24	0.53
1:CA:95:G:H2'	1:CA:96:G:C5'	2.38	0.53
1:CA:450:G:N7	1:CA:481:G:N1	2.56	0.53
1:CA:566:G:C4'	1:CA:567:G:OP1	2.55	0.53
1:CA:828:A:N6	1:CA:858:G:O2'	2.41	0.53
1:CA:828:A:H5"	1:CA:859:A:C2	2.44	0.53
1:CA:960:U:H2'	1:CA:960:U:O2	2.07	0.53
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.08	0.53
1:CA:1054:C:O2'	1:CA:1055:A:H5"	2.09	0.53
1:CA:1153:C:C2	1:CA:1154:G:C8	2.96	0.53
1:CA:1179:A:O3'	9:CL:103:THR:HG23	2.09	0.53
1:CA:1233:G:H2'	1:CA:1234:C:H6	1.73	0.53
4:CG:23:GLY:HA3	4:CG:112:VAL:CG2	2.38	0.53
9:CL:4:TYR:CE2	9:CL:88:TYR:HB2	2.44	0.53
9:CL:28:VAL:HG13	9:CL:63:ILE:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:125:PHE:HD1	11:CN:125:PHE:N	2.05	0.53
12:CO:83:VAL:CG2	12:CO:100:ILE:HG23	2.38	0.53
17:CT:11:VAL:HG22	17:CT:20:THR:O	2.09	0.53
19:CV:63:THR:O	19:CV:66:MET:HG2	2.09	0.53
22:CD:76:A:O2'	24:DA:2394:C:N3	2.37	0.53
24:DA:481:G:OP2	43:DU:47:LYS:HG3	2.09	0.53
24:DA:865:C:N3	24:DA:909:A:N6	2.51	0.53
24:DA:2249:U:H4'	24:DA:2275:C:C5	2.44	0.53
26:DD:198:ASN:HD22	26:DD:198:ASN:C	2.16	0.53
27:DE:47:VAL:O	27:DE:48:GLN:C	2.52	0.53
29:DG:121:ASN:HD22	29:DG:122:PRO:N	2.06	0.53
29:DG:139:LEU:HD22	29:DG:146:TYR:HD1	1.73	0.53
30:DH:59:ARG:HH11	30:DH:59:ARG:CG	2.20	0.53
31:DK:56:LYS:HG3	31:DK:57:ARG:N	2.23	0.53
31:DK:76:THR:HG23	31:DK:139:GLN:O	2.08	0.53
32:DM:137:LYS:HG3	32:DM:138:LEU:N	2.23	0.53
34:DO:64:LYS:HG3	53:D8:25:MET:SD	2.48	0.53
35:DP:81:VAL:C	35:DP:82:ARG:CG	2.76	0.53
40:D2:41:GLY:HA3	40:D2:46:VAL:CG1	2.38	0.53
49:D4:49:PHE:CD1	49:D4:49:PHE:N	2.76	0.53
53:D8:58:ILE:O	53:D8:61:LEU:HG	2.08	0.53
1:AA:10:A:H2'	1:AA:11:G:C8	2.43	0.53
1:AA:531:U:C5'	1:AA:532:A:OP1	2.56	0.53
1:AA:645:C:O2'	1:AA:646:U:H5'	2.09	0.53
1:AA:748:C:O2'	1:AA:749:C:P	2.67	0.53
1:AA:913:A:O2'	1:AA:914:A:OP2	2.24	0.53
1:AA:1003:G:H2'	1:AA:1004:A:C5'	2.39	0.53
1:AA:1067:A:O2'	1:AA:1068:G:O4'	2.26	0.53
1:AA:1205:U:H1'	3:AF:195:VAL:HG23	1.90	0.53
2:AE:36:ARG:H	2:AE:41:ILE:CD1	2.22	0.53
2:AE:168:THR:HA	2:AE:171:ALA:HB2	1.91	0.53
3:AF:11:ARG:HH21	3:AF:180:ALA:HB3	1.72	0.53
3:AF:23:TYR:CD2	10:AM:10:GLY:HA2	2.42	0.53
4:AG:16:GLY:HA2	4:AG:33:MET:CE	2.39	0.53
7:AJ:17:VAL:HG12	7:AJ:17:VAL:O	2.07	0.53
11:AN:37:GLY:O	11:AN:39:PRO:HD3	2.09	0.53
16:AS:74:LEU:O	16:AS:79:VAL:HG23	2.08	0.53
23:A1:22:A:H3'	23:A1:23:A:C5'	2.31	0.53
24:BA:849:A:H2	48:BX:24:LYS:HB3	1.74	0.53
24:BA:1098:A:H3'	24:BA:1099:G:H5'	1.90	0.53
24:BA:1205:U:H4'	24:BA:1206:G:OP2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1278:A:O2'	24:BA:1279:G:H5'	2.09	0.53
24:BA:1491:G:H5'	26:BD:99:ASP:OD1	2.09	0.53
24:BA:1641:A:H2'	24:BA:1642:G:O4'	2.08	0.53
24:BA:1833:U:O2	24:BA:1969:A:H2	1.92	0.53
24:BA:2046:G:C4	24:BA:2047:U:C5	2.95	0.53
24:BA:2119:A:N6	24:BA:2170:A:C5	2.77	0.53
24:BA:2247:A:H2'	24:BA:2248:C:C6	2.43	0.53
25:BB:44:G:C5	49:B4:1:MET:SD	3.02	0.53
26:BD:121:PRO:HB3	26:BD:135:PHE:CE1	2.43	0.53
30:BH:6:ARG:O	30:BH:65:HIS:HE1	1.91	0.53
32:BM:55:VAL:HB	32:BM:126:PRO:CA	2.36	0.53
34:BO:14:LYS:O	34:BO:16:ARG:HG2	2.08	0.53
35:BP:98:LYS:HB3	35:BP:99:PRO:HD2	1.91	0.53
41:BS:56:ALA:O	41:BS:60:ASN:HB3	2.09	0.53
42:BT:55:ASN:HB2	42:BT:80:ILE:HG12	1.90	0.53
43:BU:83:THR:HG22	43:BU:85:VAL:CG2	2.32	0.53
44:BV:52:SER:O	44:BV:54:HIS:N	2.41	0.53
44:BV:121:HIS:H	44:BV:171:ILE:HG12	1.73	0.53
44:BV:127:LYS:HB3	44:BV:162:GLU:CG	2.39	0.53
45:B3:51:VAL:N	45:B3:62:LEU:HD12	2.24	0.53
49:B4:47:GLN:O	49:B4:49:PHE:N	2.41	0.53
1:CA:713:G:N2	1:CA:777:A:C1'	2.69	0.53
1:CA:1036:G:H3'	1:CA:1037:C:C5	2.43	0.53
5:CH:137:GLU:OE1	5:CH:141:GLN:NE2	2.42	0.53
6:CI:78:GLU:OE2	6:CI:81:ILE:HD12	2.08	0.53
7:CJ:95:ARG:CZ	7:CJ:99:LEU:HD11	2.38	0.53
9:CL:53:VAL:CB	9:CL:95:LYS:HE3	2.36	0.53
19:CV:7:LYS:HG3	19:CV:8:GLY:N	2.22	0.53
24:DA:972:G:H2'	24:DA:973:A:C8	2.44	0.53
24:DA:1567:A:H5'	26:DD:58:HIS:CD2	2.43	0.53
24:DA:1788:C:OP1	26:DD:222:ARG:NH2	2.38	0.53
24:DA:2702:U:OP1	24:DA:2702:U:O4'	2.27	0.53
25:DB:8:U:C5'	25:DB:8:U:C6	2.87	0.53
26:DD:35:LYS:CG	26:DD:64:ILE:H	2.14	0.53
28:DF:29:ASN:CB	28:DF:112:MET:HE1	2.38	0.53
30:DH:12:PRO:HG3	30:DH:48:GLY:O	2.09	0.53
31:DK:78:THR:HG22	31:DK:141:LYS:CD	2.27	0.53
32:DM:12:ARG:NH1	32:DM:50:ASP:CG	2.67	0.53
32:DM:56:ASN:ND2	32:DM:125:GLY:C	2.66	0.53
33:DN:2:ILE:HD12	33:DN:2:ILE:N	2.23	0.53
35:DP:29:PHE:N	35:DP:105:GLU:OE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DQ:56:LEU:O	37:DQ:58:LEU:HD22	2.09	0.53
37:DQ:74:ALA:HB1	37:DQ:107:GLU:HB3	1.89	0.53
38:DR:3:ARG:HG3	38:DR:7:ILE:CG1	2.36	0.53
42:DT:60:ARG:NH1	52:D7:47:ARG:HH22	2.07	0.53
44:DV:4:ARG:HG2	44:DV:4:ARG:NH1	2.24	0.53
45:D3:11:ARG:HH11	45:D3:11:ARG:CG	2.21	0.53
46:DZ:25:LYS:C	46:DZ:27:GLU:H	2.17	0.53
49:D4:37:SER:HB3	49:D4:42:PHE:CD1	2.43	0.53
51:D6:9:LEU:HD13	51:D6:26:ASN:ND2	2.24	0.53
1:AA:39:G:N7	1:AA:547:A:C8	2.77	0.53
1:AA:345:C:H5'	38:BR:41:ARG:CZ	2.38	0.53
1:AA:636:U:H2'	1:AA:637:G:H8	1.72	0.53
1:AA:663:A:H2'	1:AA:664:G:O4'	2.09	0.53
1:AA:707:C:H2'	1:AA:708:C:H6	1.72	0.53
1:AA:973:G:H1'	10:AM:55:LYS:CG	2.39	0.53
1:AA:1020:U:C2'	1:AA:1021:G:H5"	2.39	0.53
1:AA:1126:U:O2'	1:AA:1127:G:OP2	2.21	0.53
1:AA:1313:U:P	19:AV:6:LYS:HD3	2.49	0.53
2:AE:142:LEU:HD23	2:AE:142:LEU:O	2.09	0.53
3:AF:83:ARG:HA	3:AF:87:LEU:HG	1.91	0.53
4:AG:173:TRP:HZ3	4:AG:193:ASP:HB3	1.74	0.53
6:AI:60:PHE:C	6:AI:61:LEU:HD12	2.33	0.53
6:AI:63:TYR:O	6:AI:65:VAL:HG13	2.08	0.53
8:AK:99:GLU:N	8:AK:99:GLU:OE1	2.41	0.53
9:AL:34:ASN:O	9:AL:35:GLU:C	2.51	0.53
9:AL:93:ARG:C	9:AL:95:LYS:H	2.17	0.53
13:AP:28:ALA:C	13:AP:30:ALA:N	2.63	0.53
16:AS:53:VAL:HG12	16:AS:79:VAL:HG22	1.91	0.53
22:AD:6:G:O2'	22:AD:7:G:H8	1.92	0.53
22:AD:12:G:H2'	22:AD:13:C:OP1	2.08	0.53
24:BA:9:U:H5'	32:BM:115:ARG:NH2	2.22	0.53
24:BA:90:U:H2'	24:BA:91:A:H5"	1.90	0.53
24:BA:196:A:H61	24:BA:831:G:H21	1.54	0.53
24:BA:241:A:O2'	24:BA:242:G:P	2.67	0.53
24:BA:1045:A:H1'	24:BA:1047:G:C8	2.44	0.53
24:BA:1061:U:HO2'	24:BA:1070:A:C1'	2.20	0.53
24:BA:1069:A:O2'	24:BA:1072:C:OP1	2.24	0.53
24:BA:2127:G:H2'	24:BA:2128:C:C4'	2.39	0.53
24:BA:2130:U:H1'	24:BA:2133:G:O2'	2.09	0.53
24:BA:2142:C:O2'	24:BA:2143:C:H5'	2.09	0.53
24:BA:2780:G:O2'	24:BA:2781:A:OP1	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:26:LYS:N	26:BD:26:LYS:HD2	2.23	0.53
27:BE:154:LYS:HE3	27:BE:154:LYS:CA	2.35	0.53
27:BE:170:LEU:HD12	27:BE:170:LEU:N	2.24	0.53
28:BF:182:ASN:O	28:BF:186:ILE:HG12	2.08	0.53
30:BH:2:SER:O	30:BH:3:ARG:HG3	2.08	0.53
30:BH:51:ARG:NH1	30:BH:51:ARG:HG3	2.24	0.53
32:BM:45:ASN:H	32:BM:45:ASN:ND2	2.00	0.53
33:BN:78:ARG:NH2	38:BR:73:GLU:OE2	2.41	0.53
35:BP:47:ILE:HG22	35:BP:48:GLU:N	2.24	0.53
35:BP:134:ARG:HH11	35:BP:134:ARG:HG2	1.73	0.53
41:BS:29:LEU:O	41:BS:29:LEU:HD12	2.09	0.53
43:BU:50:ARG:CB	43:BU:53:PRO:HG3	2.39	0.53
43:BU:72:VAL:O	43:BU:73:ARG:HB2	2.09	0.53
43:BU:101:LYS:O	43:BU:101:LYS:CE	2.57	0.53
44:BV:91:LEU:HD23	44:BV:91:LEU:N	2.09	0.53
49:B4:50:VAL:HG12	49:B4:51:ASP:N	2.24	0.53
1:CA:44:G:H2'	1:CA:45:U:O4'	2.09	0.53
1:CA:497:U:H2'	1:CA:497:U:O2	2.09	0.53
1:CA:713:G:H21	1:CA:777:A:H1'	1.72	0.53
1:CA:1126:U:C1'	1:CA:1280:A:H62	2.21	0.53
1:CA:1293:G:H2'	1:CA:1294:G:C8	2.43	0.53
1:CA:1320:C:C2	19:CV:72:GLY:HA3	2.43	0.53
4:CG:13:ARG:HD2	4:CG:38:TYR:O	2.09	0.53
4:CG:79:PHE:CE2	4:CG:83:SER:HB2	2.43	0.53
4:CG:172:PRO:HB2	4:CG:193:ASP:OD2	2.08	0.53
5:CH:87:SER:HB3	5:CH:131:ILE:CD1	2.39	0.53
13:CP:81:LEU:HD13	13:CP:88:ARG:HD2	1.91	0.53
24:DA:270(K):C:O2'	24:DA:270(L):U:H6	1.92	0.53
24:DA:270(V):G:O2'	24:DA:270(W):G:H5'	2.08	0.53
24:DA:498:G:N2	24:DA:506:G:O6	2.32	0.53
24:DA:583:G:OP2	39:D1:10:ARG:NH1	2.42	0.53
24:DA:789:A:OP1	24:DA:789:A:H3'	2.09	0.53
24:DA:1750:G:O2'	24:DA:1751:C:H5'	2.08	0.53
24:DA:1850:G:H2'	24:DA:1851:U:O4'	2.09	0.53
26:DD:77:ALA:HB2	26:DD:97:TYR:CG	2.44	0.53
32:DM:19:GLU:HA	32:DM:59:LYS:HB2	1.91	0.53
34:DO:79:ARG:HD3	34:DO:110:TYR:CE1	2.43	0.53
36:D0:1:MET:O	36:D0:2:ARG:HG3	2.08	0.53
37:DQ:10:ARG:O	37:DQ:14:VAL:HG12	2.09	0.53
40:D2:48:GLY:O	40:D2:49:THR:O	2.26	0.53
1:AA:174:C:O5'	1:AA:174:C:H6	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:366:C:H4'	1:AA:367:U:OP1	2.07	0.53
1:AA:411:A:C4	1:AA:413:G:H1'	2.44	0.53
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.73	0.53
1:AA:1324:A:C4'	1:AA:1362:C:H4'	2.39	0.53
1:AA:1343:G:H2'	1:AA:1344:C:O4'	2.09	0.53
1:AA:1523:G:H2'	1:AA:1524:C:H6	1.74	0.53
3:AF:22:TRP:HB2	3:AF:59:ARG:HB2	1.90	0.53
3:AF:149:ALA:HA	3:AF:201:TYR:O	2.08	0.53
4:AG:163:GLU:C	4:AG:165:MET:H	2.17	0.53
5:AH:111:GLU:C	5:AH:113:ALA:H	2.15	0.53
5:AH:144:THR:OG1	5:AH:146:ALA:HB3	2.09	0.53
8:AK:73:ASP:OD2	8:AK:75:ARG:HG3	2.09	0.53
10:AM:24:VAL:HG12	10:AM:24:VAL:O	2.09	0.53
11:AN:125:PHE:H	11:AN:125:PHE:HD1	1.56	0.53
12:AO:41:ARG:HH12	12:AO:43:VAL:HG12	1.74	0.53
19:AV:67:VAL:HG22	19:AV:68:GLY:N	2.24	0.53
20:AW:67:ALA:HA	20:AW:73:HIS:H	1.73	0.53
21:AX:8:THR:HG22	21:AX:9:ARG:N	2.22	0.53
24:BA:27:G:N2	24:BA:512:G:C2'	2.66	0.53
24:BA:232:G:O2'	24:BA:233:A:H5'	2.08	0.53
24:BA:548:A:C2'	24:BA:549:G:H5'	2.37	0.53
24:BA:1039:G:O2'	24:BA:1040:C:H5'	2.08	0.53
24:BA:1926:U:O4'	24:BA:1929:G:O6	2.27	0.53
24:BA:2646:C:H6	24:BA:2646:C:O5'	1.92	0.53
24:BA:2729:G:H2'	24:BA:2730:C:H6	1.74	0.53
29:BG:41:GLN:HB3	29:BG:43:LEU:CD1	2.38	0.53
29:BG:114:ILE:CD1	29:BG:140:ILE:HG21	2.38	0.53
30:BH:89:ILE:CG1	30:BH:90:LYS:N	2.71	0.53
30:BH:156:ALA:CB	30:BH:159:GLU:O	2.57	0.53
32:BM:112:LEU:HA	32:BM:115:ARG:HB2	1.91	0.53
36:B0:93:GLY:C	36:B0:95:THR:H	2.15	0.53
42:BT:14:SER:O	42:BT:17:ALA:N	2.42	0.53
43:BU:74:PRO:O	43:BU:80:GLY:HA2	2.09	0.53
44:BV:30:ASN:HB3	44:BV:90:VAL:HB	1.90	0.53
44:BV:168:GLU:O	44:BV:169:GLU:C	2.52	0.53
1:CA:335:C:H2'	1:CA:336:C:H6	1.72	0.53
1:CA:965:A:C2	1:CA:969:A:C2	2.97	0.53
1:CA:1231:G:O2'	1:CA:1232:U:H5'	2.09	0.53
8:CK:1:MET:H3	8:CK:1:MET:HE2	1.73	0.53
8:CK:100:ILE:CB	8:CK:125:ARG:HH12	2.20	0.53
15:CR:62:GLN:N	15:CR:65:ARG:HH12	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CV:27:GLU:O	19:CV:28:LYS:CG	2.53	0.53
19:CV:65:ASN:HA	49:D4:55:ARG:HH11	1.73	0.53
22:CD:58:A:H1'	22:CD:60:U:C5	2.44	0.53
24:DA:55:G:N3	24:DA:127:A:C2	2.77	0.53
24:DA:236:C:H2'	24:DA:237:C:C6	2.44	0.53
24:DA:363(F):A:H1'	24:DA:364:C:C5	2.44	0.53
24:DA:1292:U:H2'	24:DA:1293:C:C6	2.44	0.53
24:DA:1538:G:O2'	24:DA:1539:G:H5'	2.08	0.53
24:DA:1831:G:H2'	24:DA:1832:C:C6	2.44	0.53
25:DB:12:C:H2'	45:D3:74:ARG:CG	2.31	0.53
26:DD:25:THR:CG2	26:DD:81:ALA:HB1	2.38	0.53
28:DF:116:ASP:OD1	28:DF:119:ARG:NH2	2.41	0.53
30:DH:40:GLU:O	30:DH:41:MET:HB2	2.09	0.53
30:DH:128:PRO:CD	30:DH:129:THR:N	2.71	0.53
30:DH:139:GLN:O	30:DH:143:GLN:HB2	2.09	0.53
31:DK:131:LYS:HB3	31:DK:132:PRO:CA	2.38	0.53
32:DM:95:PRO:O	32:DM:96:GLU:C	2.51	0.53
34:DO:125:VAL:O	34:DO:125:VAL:HG13	2.09	0.53
34:DO:125:VAL:O	34:DO:145:PRO:HD2	2.08	0.53
35:DP:76:LYS:O	35:DP:88:GLY:HA3	2.09	0.53
38:DR:34:VAL:CG1	38:DR:36:GLU:HG2	2.39	0.53
38:DR:135:ALA:C	38:DR:137:LYS:H	2.16	0.53
42:DT:53:LYS:NZ	42:DT:55:ASN:HD21	2.06	0.53
44:DV:57:ILE:HD12	44:DV:57:ILE:N	2.23	0.53
50:D5:60:VAL:OXT	50:D5:60:VAL:CG1	2.56	0.53
51:D6:7:ILE:CG1	51:D6:8:LYS:H	2.07	0.53
1:AA:84:U:O2'	1:AA:85:U:OP1	2.25	0.53
1:AA:96:G:O2'	1:AA:97:U:H5'	2.09	0.53
1:AA:116:A:H8	1:AA:116:A:O5'	1.91	0.53
1:AA:632:A:HO2'	1:AA:633:G:P	2.30	0.53
1:AA:811:C:H4'	1:AA:900:A:N6	2.23	0.53
1:AA:928:G:O2'	1:AA:1533:C:O2'	2.14	0.53
1:AA:975:A:C8	1:AA:1365:G:N2	2.77	0.53
1:AA:1024:G:H4'	1:AA:1025:U:C5'	2.38	0.53
1:AA:1024:G:H5'	1:AA:1025:U:OP1	2.09	0.53
1:AA:1364:U:O2	1:AA:1364:U:C2'	2.57	0.53
1:AA:1381:U:C1'	7:AJ:79:ARG:HH22	2.21	0.53
3:AF:109:PRO:HB3	3:AF:115:LEU:HD13	1.90	0.53
3:AF:115:LEU:O	3:AF:116:VAL:C	2.52	0.53
3:AF:129:ALA:CB	3:AF:132:ARG:CZ	2.86	0.53
4:AG:67:ILE:HG22	4:AG:68:TYR:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:98:GLU:OE2	4:AG:103:ASN:ND2	2.42	0.53
10:AM:60:ARG:HG3	10:AM:61:GLU:N	2.24	0.53
12:AO:59:ARG:HA	12:AO:65:GLU:HA	1.90	0.53
18:AU:53:ARG:C	18:AU:55:ARG:H	2.17	0.53
24:BA:662:G:H5"	34:BO:15:ARG:O	2.09	0.53
24:BA:671:C:OP1	34:BO:42:SER:O	2.27	0.53
24:BA:671:C:C2'	24:BA:672:C:O5'	2.57	0.53
24:BA:1434:A:H2'	24:BA:1435:G:C8	2.44	0.53
24:BA:1677:A:O5'	24:BA:1677:A:H8	1.92	0.53
24:BA:1758:G:O2'	24:BA:1759:A:OP1	2.18	0.53
24:BA:1821:A:H2'	24:BA:1822:G:C5'	2.39	0.53
24:BA:2129:C:H3'	24:BA:2130:U:H5'	1.90	0.53
24:BA:2402:C:OP2	24:BA:2402:C:C6	2.62	0.53
25:BB:81:G:N2	25:BB:82:G:C5	2.77	0.53
26:BD:148:GLU:HB2	26:BD:151:LYS:HD2	1.90	0.53
26:BD:246:PRO:HB2	26:BD:255:LYS:HD3	1.91	0.53
27:BE:44:TYR:O	27:BE:45:THR:HB	2.09	0.53
27:BE:46:ALA:HB2	27:BE:82:ARG:HA	1.91	0.53
27:BE:87:GLU:O	27:BE:87:GLU:HG3	2.07	0.53
28:BF:79:GLY:HA2	28:BF:86:GLY:HA2	1.91	0.53
28:BF:122:LYS:O	28:BF:123:LEU:HB3	2.07	0.53
33:BN:104:ARG:HB3	33:BN:104:ARG:NH1	2.21	0.53
34:BO:114:ILE:HG12	34:BO:114:ILE:O	2.07	0.53
40:B2:85:LYS:CG	40:B2:87:HIS:H	2.09	0.53
41:BS:12:ILE:CG1	41:BS:42:ARG:HH12	2.19	0.53
41:BS:75:TYR:O	41:BS:75:TYR:HD2	1.92	0.53
41:BS:88:ARG:HB2	41:BS:93:ALA:H	1.73	0.53
43:BU:67:LEU:HD12	43:BU:68:HIS:H	1.74	0.53
44:BV:169:GLU:HA	44:BV:169:GLU:OE1	2.08	0.53
50:B5:46:CYS:SG	50:B5:48:GLU:CD	2.92	0.53
51:B6:42:TRP:CD1	51:B6:44:ARG:NH1	2.75	0.53
1:CA:77:C:C2'	1:CA:78:G:H5"	2.28	0.53
1:CA:173:U:O2'	1:CA:174:C:OP1	2.27	0.53
1:CA:511:C:O2'	1:CA:512:U:O5'	2.24	0.53
1:CA:706:A:C2'	1:CA:707:C:H5'	2.39	0.53
2:CE:206:ASP:O	2:CE:207:ALA:HB3	2.08	0.53
3:CF:78:GLY:HA3	3:CF:83:ARG:CB	2.38	0.53
3:CF:134:ILE:CG2	3:CF:168:ALA:HB3	2.39	0.53
4:CG:22:LYS:CG	4:CG:26:CYS:SG	2.97	0.53
6:CI:75:LEU:HD21	6:CI:79:LEU:HD11	1.91	0.53
12:CO:6:THR:O	12:CO:7:ILE:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CP:76:ALA:O	13:CP:79:LYS:HB3	2.09	0.53
15:CR:26:GLU:HA	15:CR:81:LEU:HD22	1.91	0.53
15:CR:29:VAL:HG11	15:CR:67:LEU:HD21	1.89	0.53
16:CS:40:ASP:C	16:CS:42:ARG:H	2.17	0.53
17:CT:5:VAL:O	17:CT:6:LEU:HD23	2.09	0.53
22:CD:36:U:O5'	22:CD:36:U:H6	1.91	0.53
24:DA:1142(A):A:N7	24:DA:1144:G:N7	2.56	0.53
24:DA:1257:C:O2'	28:DF:84:VAL:HG12	2.08	0.53
24:DA:1474:C:C3'	24:DA:1475:G:C5'	2.87	0.53
24:DA:1517:G:H2'	24:DA:1518:C:H6	1.74	0.53
24:DA:2592:G:H2'	24:DA:2593:U:O4'	2.09	0.53
24:DA:2702:U:H2'	24:DA:2702:U:O2	2.08	0.53
24:DA:2729:G:C1'	27:DE:187:ALA:HB2	2.30	0.53
27:DE:7:VAL:O	27:DE:196:VAL:HG13	2.09	0.53
27:DE:119:ARG:HD3	27:DE:160:TYR:HB2	1.91	0.53
28:DF:9:ILE:HD11	28:DF:125:LEU:CG	2.36	0.53
28:DF:129:PHE:O	28:DF:142:TRP:CD1	2.62	0.53
30:DH:44:VAL:O	30:DH:44:VAL:CG2	2.57	0.53
31:DK:74:ASN:HD22	31:DK:74:ASN:N	1.94	0.53
34:DO:101:VAL:C	34:DO:103:ALA:H	2.17	0.53
35:DP:134:ARG:CZ	44:DV:122:ARG:HH22	2.22	0.53
37:DQ:56:LEU:HD23	37:DQ:56:LEU:C	2.34	0.53
40:D2:7:THR:CG2	40:D2:22:VAL:HG11	2.39	0.53
41:DS:8:ARG:HH11	41:DS:8:ARG:HG3	1.73	0.53
52:D7:32:LYS:HZ3	52:D7:36:GLN:NE2	2.07	0.53
1:AA:571:U:H3'	1:AA:572:A:H5"	1.91	0.53
1:AA:973:G:H1'	10:AM:55:LYS:HD3	1.90	0.53
1:AA:1000:A:H2'	1:AA:1001:G:O4'	2.08	0.53
2:AE:162:ILE:CD1	2:AE:184:VAL:HG13	2.39	0.53
4:AG:52:SER:O	4:AG:53:ASP:C	2.52	0.53
5:AH:50:GLU:CB	5:AH:53:LEU:HD12	2.38	0.53
9:AL:48:GLU:HB3	9:AL:101:PHE:CE2	2.41	0.53
22:AC:44:A:O2'	22:AC:45:G:H5'	2.09	0.53
24:BA:320:A:H2'	28:BF:136:THR:OG1	2.09	0.53
24:BA:1244:G:C2'	24:BA:1245:G:H5'	2.39	0.53
24:BA:1556:C:H2'	24:BA:1557:C:C6	2.44	0.53
24:BA:1929:G:C5'	24:BA:1930:G:OP1	2.57	0.53
24:BA:2413:G:N2	34:BO:70:GLN:HE22	2.07	0.53
24:BA:2419:U:O4	53:B8:31:HIS:CE1	2.62	0.53
24:BA:2712:U:H1'	24:BA:2712(A):A:C8	2.44	0.53
28:BF:181:LEU:HD21	28:BF:186:ILE:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:26:GLN:NE2	29:BG:27:ASN:HB2	2.24	0.53
29:BG:72:ARG:HG3	29:BG:72:ARG:NH1	2.23	0.53
30:BH:68:THR:O	30:BH:72:ILE:HG13	2.09	0.53
31:BK:85:GLU:O	31:BK:123:LEU:HD12	2.09	0.53
31:BK:97:ILE:HD12	31:BK:97:ILE:H	1.74	0.53
32:BM:17:ASP:O	32:BM:18:ALA:CB	2.55	0.53
33:BN:1:MET:CE	33:BN:67:LYS:HG2	2.39	0.53
33:BN:13:ASN:O	33:BN:15:GLY:N	2.42	0.53
37:BQ:54:LEU:HD13	37:BQ:54:LEU:O	2.09	0.53
39:B1:88:ILE:O	39:B1:88:ILE:HG13	2.08	0.53
43:BU:46:LYS:CD	43:BU:63:LYS:HB3	2.39	0.53
44:BV:130:PRO:C	44:BV:133:ILE:HD11	2.34	0.53
47:BW:51:ARG:HA	47:BW:54:LYS:HE3	1.90	0.53
52:B7:22:MET:O	52:B7:28:ARG:NH1	2.42	0.53
1:CA:256:U:H2'	1:CA:257:G:O4'	2.09	0.53
1:CA:524:G:H2'	1:CA:525:C:C6	2.44	0.53
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.09	0.53
3:CF:51:GLY:O	3:CF:70:VAL:HG13	2.09	0.53
10:CM:74:ILE:HD13	10:CM:74:ILE:N	2.16	0.53
12:CO:27:LEU:C	12:CO:29:GLY:N	2.64	0.53
14:CQ:40:CYS:H	14:CQ:43:CYS:CB	2.22	0.53
15:CR:7:GLU:O	15:CR:11:VAL:HG23	2.08	0.53
19:CV:29:ARG:HD3	19:CV:30:LEU:HD13	1.91	0.53
24:DA:807:U:OP2	34:DO:41:ARG:NH1	2.41	0.53
24:DA:852:G:H2'	24:DA:853:G:H8	1.74	0.53
24:DA:1174:A:H2'	24:DA:1174:A:N3	2.23	0.53
24:DA:1543:A:C2'	24:DA:1544:C:OP2	2.57	0.53
24:DA:1586:A:H3'	24:DA:1587:A:C8	2.37	0.53
24:DA:2112:G:O6	24:DA:2169:A:N6	2.42	0.53
24:DA:2310:A:N6	29:DG:79:ASN:HB2	2.24	0.53
24:DA:2756:U:H5"	24:DA:2757:A:OP1	2.09	0.53
27:DE:7:VAL:CG2	27:DE:8:LYS:H	2.11	0.53
28:DF:34:TRP:CH2	34:DO:8:PRO:HB3	2.43	0.53
28:DF:140:LEU:O	28:DF:143:ALA:HB3	2.09	0.53
29:DG:16:ARG:HH11	29:DG:16:ARG:HG2	1.74	0.53
29:DG:97:ASP:H	29:DG:100:TRP:CD1	2.18	0.53
29:DG:179:PRO:HG3	49:D4:38:LYS:HZ1	1.74	0.53
32:DM:109:LYS:HD2	32:DM:109:LYS:H	1.73	0.53
36:D0:70:LEU:O	36:D0:72:ASP:N	2.42	0.53
40:D2:35:LEU:HD21	40:D2:57:VAL:CG2	2.30	0.53
41:DS:25:ARG:HB2	41:DS:25:ARG:HH11	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:20:ARG:HG2	46:DZ:20:ARG:NH1	2.24	0.53
51:D6:25:LYS:HE2	51:D6:27:LYS:HE3	1.91	0.53
1:AA:448:A:N6	1:AA:486:U:H3	1.99	0.52
1:AA:622:A:C8	1:AA:623:C:C6	2.96	0.52
1:AA:675:A:H2'	1:AA:676:A:C8	2.44	0.52
1:AA:1024:G:O2'	1:AA:1025:U:H6	1.92	0.52
1:AA:1024:G:C4'	1:AA:1025:U:OP1	2.57	0.52
1:AA:1025:U:C2'	1:AA:1026:G:O4'	2.55	0.52
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.43	0.52
1:AA:1362(A):C:H5'	1:AA:1363:A:O5'	2.09	0.52
2:AE:133:LYS:CD	2:AE:137:ARG:HH12	1.96	0.52
2:AE:178:ARG:HH22	8:AK:68:ARG:HH12	1.58	0.52
3:AF:14:ILE:O	3:AF:15:THR:HB	2.09	0.52
3:AF:15:THR:CG2	3:AF:16:ARG:NH1	2.72	0.52
3:AF:181:ASN:ND2	3:AF:204:LEU:HB3	2.25	0.52
4:AG:31:CYS:O	4:AG:32:ALA:C	2.51	0.52
10:AM:78:ASN:O	10:AM:82:ILE:HB	2.09	0.52
11:AN:11:LYS:HZ2	24:BA:2144:U:H5	1.57	0.52
11:AN:20:TYR:O	11:AN:30:VAL:HA	2.09	0.52
11:AN:54:ARG:HG3	11:AN:54:ARG:HH11	1.74	0.52
13:AP:99:ARG:O	13:AP:99:ARG:HD3	2.09	0.52
19:AV:6:LYS:CG	19:AV:7:LYS:H	2.22	0.52
20:AW:40:ALA:HB2	20:AW:55:ILE:CG2	2.38	0.52
22:AC:31:G:C4	22:AC:32:C:C5	2.97	0.52
22:AD:38:A:C2'	22:AD:39:C:H5'	2.39	0.52
24:BA:60:G:H5"	47:BW:54:LYS:NZ	2.24	0.52
24:BA:138:G:O6	24:BA:1596:A:OP1	2.26	0.52
24:BA:262:A:H2'	24:BA:263:C:O4'	2.09	0.52
24:BA:298:G:OP1	43:BU:84:ARG:O	2.27	0.52
24:BA:401:A:H2'	24:BA:402:A:O4'	2.09	0.52
24:BA:411:G:H5"	24:BA:412:A:OP1	2.09	0.52
24:BA:1799:G:N2	26:BD:155:LEU:HA	2.24	0.52
24:BA:1943:U:H5"	24:BA:1944:U:OP1	2.09	0.52
24:BA:2305:A:H5"	29:BG:134:GLY:HA3	1.90	0.52
24:BA:2318:G:H22	37:BQ:2:ALA:CA	2.22	0.52
24:BA:2584:U:O2	24:BA:2584:U:H3'	2.09	0.52
24:BA:2683:C:OP1	38:BR:53:ARG:NH2	2.42	0.52
25:BB:78:A:H2'	25:BB:79:C:O4'	2.08	0.52
26:BD:134:ARG:C	26:BD:135:PHE:HD2	2.16	0.52
27:BE:45:THR:O	27:BE:46:ALA:HB2	2.09	0.52
28:BF:21:ALA:HB3	28:BF:23:ASP:CG	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:4:ILE:C	30:BH:4:ILE:HD12	2.34	0.52
31:BK:76:THR:C	31:BK:77:LEU:HD23	2.34	0.52
35:BP:25:ASP:O	35:BP:26:TYR:C	2.51	0.52
44:BV:111:VAL:CG2	44:BV:145:GLU:HB2	2.39	0.52
44:BV:137:ILE:HG23	44:BV:157:LEU:HD11	1.89	0.52
53:B8:32:LEU:HB2	53:B8:36:LYS:HZ1	1.70	0.52
53:B8:32:LEU:CD2	53:B8:33:ASN:N	2.72	0.52
1:CA:383:A:C2'	1:CA:384:G:H5'	2.39	0.52
1:CA:508:C:O2'	1:CA:509:A:C8	2.57	0.52
1:CA:958:A:C6	1:CA:959:A:C6	2.97	0.52
1:CA:1305:G:N2	1:CA:1331:G:C4	2.77	0.52
1:CA:1370:G:O3'	9:CL:12:GLU:HG3	2.08	0.52
2:CE:188:ALA:HB3	2:CE:200:ILE:CG2	2.40	0.52
4:CG:156:GLU:HG2	4:CG:160:GLN:NE2	2.23	0.52
5:CH:140:ARG:HB2	5:CH:140:ARG:NH1	2.23	0.52
6:CI:14:LEU:HD22	6:CI:18:GLN:NE2	2.23	0.52
9:CL:113:LYS:HD3	9:CL:119:ALA:O	2.09	0.52
11:CN:62:GLN:O	11:CN:63:LEU:C	2.51	0.52
13:CP:8:GLU:C	13:CP:9:ILE:HG23	2.35	0.52
14:CQ:7:ILE:CG1	14:CQ:8:GLU:N	2.72	0.52
18:CU:30:ASP:C	18:CU:32:ARG:H	2.16	0.52
19:CV:65:ASN:ND2	19:CV:65:ASN:H	2.08	0.52
20:CW:30:LYS:HE2	20:CW:72:LEU:HD12	1.92	0.52
24:DA:138:G:H5'	24:DA:138:G:N3	2.24	0.52
24:DA:483:A:H3'	24:DA:484:C:C6	2.43	0.52
24:DA:489:G:C5	24:DA:1284:A:C2	2.98	0.52
24:DA:1434:A:N6	24:DA:1558:A:H62	1.94	0.52
24:DA:1653:G:O2'	24:DA:1654:A:OP2	2.26	0.52
24:DA:1794:U:H1'	24:DA:1900:A:N3	2.24	0.52
24:DA:2093:G:OP1	31:DK:23:PRO:HG2	2.09	0.52
24:DA:2783:G:H2'	24:DA:2784:C:C6	2.43	0.52
26:DD:25:THR:O	26:DD:26:LYS:C	2.52	0.52
26:DD:35:LYS:HD3	26:DD:63:ARG:CA	2.39	0.52
30:DH:10:PRO:C	30:DH:11:VAL:HG22	2.34	0.52
30:DH:89:ILE:O	30:DH:89:ILE:CG1	2.57	0.52
34:DO:147:LEU:O	34:DO:148:LEU:CB	2.57	0.52
40:D2:38:LEU:HD13	40:D2:55:ALA:HB3	1.91	0.52
44:DV:120:ILE:HD12	44:DV:171:ILE:H	1.74	0.52
48:DX:6:VAL:HG12	48:DX:56:VAL:HG22	1.91	0.52
49:D4:36:CYS:O	49:D4:37:SER:C	2.52	0.52
1:AA:792:A:O2'	1:AA:793:U:C5'	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1323:G:H4'	1:AA:1362(A):C:N3	2.23	0.52
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.73	0.52
2:AE:69:LEU:CD2	2:AE:91:PRO:HB2	2.37	0.52
2:AE:118:LEU:HD13	2:AE:142:LEU:HB2	1.91	0.52
2:AE:139:LYS:O	2:AE:140:HIS:C	2.52	0.52
3:AF:52:LEU:HD23	3:AF:52:LEU:N	2.23	0.52
7:AJ:28:ASN:O	7:AJ:31:MET:HB3	2.08	0.52
8:AK:7:ALA:HB2	8:AK:85:ARG:HD2	1.90	0.52
8:AK:111:ILE:HD12	8:AK:135:CYS:SG	2.49	0.52
15:AR:4:THR:C	15:AR:6:GLU:H	2.17	0.52
17:AT:3:LYS:HB3	17:AT:61:GLU:HB3	1.91	0.52
17:AT:68:ARG:O	17:AT:69:LYS:HB2	2.09	0.52
17:AT:83:ASP:O	17:AT:86:GLU:HB2	2.08	0.52
18:AU:53:ARG:C	18:AU:55:ARG:N	2.66	0.52
24:BA:547:A:H2'	24:BA:548:A:C8	2.44	0.52
24:BA:976:C:C5'	24:BA:1156:A:N6	2.68	0.52
24:BA:1022:G:C6	24:BA:1140:C:C4	2.97	0.52
24:BA:1799:G:H22	26:BD:155:LEU:HA	1.73	0.52
24:BA:2154:G:H2'	24:BA:2155:G:H8	1.74	0.52
24:BA:2225:A:H4'	24:BA:2226:C:OP2	2.09	0.52
27:BE:46:ALA:CB	27:BE:82:ARG:HA	2.38	0.52
28:BF:172:TRP:CD1	28:BF:172:TRP:H	2.27	0.52
30:BH:30:LYS:HB3	30:BH:136:ILE:HG23	1.91	0.52
31:BK:123:LEU:HD22	31:BK:143:SER:HB3	1.91	0.52
34:BO:98:GLU:CA	34:BO:101:VAL:HG12	2.33	0.52
36:B0:33:ARG:CG	36:B0:115:GLU:HG3	2.38	0.52
37:BQ:34:HIS:ND1	37:BQ:53:SER:HB3	2.24	0.52
37:BQ:39:ILE:HB	37:BQ:49:VAL:HB	1.91	0.52
39:B1:21:ALA:HA	39:B1:24:TYR:CE1	2.44	0.52
39:B1:98:LEU:HB2	39:B1:102:GLU:HB2	1.91	0.52
45:B3:53:MET:HB3	45:B3:59:LEU:CD2	2.39	0.52
1:CA:62:U:H6	1:CA:62:U:O5'	1.92	0.52
1:CA:626:U:C2	1:CA:627:G:C8	2.97	0.52
1:CA:1028(A):C:H2'	1:CA:1028(B):C:C6	2.43	0.52
1:CA:1065:U:O2'	1:CA:1066:C:P	2.66	0.52
1:CA:1120:G:H2'	1:CA:1121:U:C6	2.45	0.52
1:CA:1131:G:C6	1:CA:1143:G:N2	2.77	0.52
3:CF:48:TYR:O	3:CF:51:GLY:N	2.41	0.52
3:CF:173:VAL:HG12	3:CF:173:VAL:O	2.08	0.52
4:CG:77:ASN:ND2	4:CG:77:ASN:H	2.06	0.52
5:CH:36:ASP:OD1	5:CH:37:ARG:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CM:39:PRO:HB3	10:CM:70:ARG:NH1	2.23	0.52
11:CN:91:ARG:NH2	18:CU:88:LYS:NZ	2.57	0.52
11:CN:115:PRO:C	11:CN:117:ASN:H	2.18	0.52
13:CP:87:TYR:CE1	13:CP:91:ARG:HD3	2.44	0.52
24:DA:263:C:H2'	24:DA:264:C:O4'	2.09	0.52
24:DA:482:A:C4'	43:DU:47:LYS:HD2	2.35	0.52
24:DA:1065:U:O4	24:DA:1070:A:OP1	2.28	0.52
24:DA:1192:G:O2'	24:DA:1193:G:H5'	2.08	0.52
24:DA:2060:A:O2'	24:DA:2061:G:P	2.67	0.52
24:DA:2272:U:H5"	24:DA:2273:A:OP1	2.09	0.52
24:DA:2315:G:H2'	24:DA:2316:C:C6	2.44	0.52
24:DA:2352:A:H2'	24:DA:2353:G:H5'	1.91	0.52
26:DD:233:HIS:N	26:DD:233:HIS:CD2	2.75	0.52
27:DE:64:LYS:C	27:DE:66:HIS:N	2.68	0.52
31:DK:52:ARG:HG3	31:DK:53:ALA:N	2.24	0.52
31:DK:77:LEU:HD12	31:DK:77:LEU:O	2.09	0.52
32:DM:75:TYR:C	32:DM:76:SER:O	2.52	0.52
32:DM:103:VAL:O	32:DM:106:MET:N	2.42	0.52
32:DM:131:GLN:CG	32:DM:132:ALA:H	2.21	0.52
36:D0:67:LEU:HD13	36:D0:76:VAL:CG2	2.27	0.52
36:D0:107:ASP:C	36:D0:107:ASP:OD2	2.52	0.52
39:D1:92:ARG:NH2	39:D1:94:ASN:HD22	2.07	0.52
41:DS:7:ALA:HB2	41:DS:50:VAL:CG2	2.40	0.52
1:AA:519:C:C2'	1:AA:520:A:H5'	2.39	0.52
1:AA:646:U:H2'	1:AA:647:C:H6	1.73	0.52
1:AA:992:U:O2'	1:AA:993:G:OP2	2.26	0.52
1:AA:1190:G:H5'	3:AF:176:HIS:NE2	2.25	0.52
1:AA:1278:U:H5'	1:AA:1279:A:C5'	2.39	0.52
3:AF:47:LEU:HD21	3:AF:68:VAL:HG11	1.90	0.52
8:AK:83:ILE:CB	8:AK:137:VAL:HG13	2.33	0.52
9:AL:26:VAL:HG23	9:AL:61:ALA:O	2.09	0.52
15:AR:29:VAL:HA	15:AR:32:LEU:HD12	1.92	0.52
19:AV:5:LEU:HD13	19:AV:9:VAL:HA	1.91	0.52
19:AV:36:ARG:HD2	19:AV:72:GLY:N	2.24	0.52
19:AV:49:ILE:HD13	19:AV:62:ILE:HD11	1.91	0.52
24:BA:754:C:H2'	24:BA:755:C:C6	2.45	0.52
24:BA:1328:G:C2'	24:BA:1330:C:C5	2.92	0.52
25:BB:104:A:H2'	25:BB:105:G:O4'	2.09	0.52
26:BD:174:ILE:HD12	26:BD:174:ILE:N	2.24	0.52
27:BE:35:GLN:H	27:BE:48:GLN:NE2	1.99	0.52
27:BE:203:LYS:HD3	27:BE:203:LYS:C	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:80:ALA:O	28:BF:83:PHE:HB2	2.08	0.52
29:BG:107:LEU:HD13	29:BG:177:GLY:O	2.09	0.52
30:BH:30:LYS:O	30:BH:31:GLY:O	2.26	0.52
30:BH:43:VAL:O	30:BH:43:VAL:HG13	2.10	0.52
30:BH:89:ILE:HD11	30:BH:129:THR:CB	2.36	0.52
30:BH:163:TYR:CD1	30:BH:163:TYR:N	2.76	0.52
33:BN:10:VAL:HG22	33:BN:17:ARG:O	2.08	0.52
35:BP:58:PHE:O	35:BP:59:ARG:HB3	2.10	0.52
44:BV:118:GLN:NE2	44:BV:118:GLN:N	2.57	0.52
53:B8:25:MET:CE	53:B8:47:LYS:HG2	2.38	0.52
1:CA:164:U:H2'	1:CA:165:C:H6	1.74	0.52
1:CA:359:U:H2'	1:CA:360:A:H8	1.74	0.52
1:CA:978:A:N6	1:CA:1318:A:N7	2.57	0.52
1:CA:1034:G:H2'	1:CA:1035:A:C8	2.44	0.52
1:CA:1160:G:H1	1:CA:1177:G:H21	1.55	0.52
1:CA:1292:U:O2'	1:CA:1293:G:H5'	2.10	0.52
1:CA:1321:C:C3'	1:CA:1322:C:H5"	2.40	0.52
1:CA:1427:U:H2'	1:CA:1428:A:H8	1.75	0.52
1:CA:1534:A:H2'	1:CA:1535:C:C5	2.44	0.52
2:CE:80:ILE:CD1	2:CE:208:ILE:HG23	2.22	0.52
2:CE:92:TYR:CE1	2:CE:151:GLY:HA3	2.45	0.52
4:CG:9:CYS:C	4:CG:11:LEU:H	2.16	0.52
4:CG:183:GLY:C	4:CG:184:LYS:HG3	2.34	0.52
7:CJ:106:GLN:O	7:CJ:110:GLN:HG3	2.10	0.52
8:CK:87:SER:HA	8:CK:93:VAL:HG23	1.91	0.52
13:CP:73:GLU:O	13:CP:76:ALA:N	2.42	0.52
19:CV:11:VAL:O	19:CV:11:VAL:HG13	2.09	0.52
24:DA:140:A:C8	24:DA:1408:C:O2'	2.60	0.52
24:DA:557:U:H2'	24:DA:558:G:C8	2.43	0.52
24:DA:1053:C:H3'	24:DA:1054:A:C5'	2.39	0.52
24:DA:1541:U:H2'	24:DA:1542:G:O4'	2.09	0.52
24:DA:1728:G:C3'	24:DA:1729:A:H5"	2.24	0.52
24:DA:2115:G:H4'	24:DA:2166:G:O2'	2.10	0.52
24:DA:2318:G:H2'	24:DA:2319:G:OP1	2.08	0.52
24:DA:2347:C:OP1	51:D6:39:TYR:HE2	1.91	0.52
24:DA:2612:C:C4	24:DA:2613:U:H5	2.27	0.52
24:DA:2649:U:H2'	24:DA:2650:U:H6	1.73	0.52
27:DE:39:PRO:HG2	27:DE:40:GLU:OE1	2.09	0.52
27:DE:93:VAL:C	27:DE:95:ILE:H	2.17	0.52
27:DE:137:HIS:HB3	27:DE:138:PRO:CD	2.37	0.52
32:DM:18:ALA:O	32:DM:19:GLU:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DM:22:THR:CG2	32:DM:23:LEU:N	2.61	0.52
33:DN:107:ARG:CA	33:DN:112:MET:HE1	2.39	0.52
34:DO:37:GLY:HA2	34:DO:41:ARG:NE	2.23	0.52
37:DQ:67:ARG:HB2	37:DQ:67:ARG:HH11	1.65	0.52
41:DS:38:TYR:OH	50:D5:47:PRO:HG3	2.08	0.52
44:DV:6:LYS:O	44:DV:7:ALA:HB3	2.10	0.52
44:DV:105:VAL:CG1	44:DV:138:GLU:HG2	2.40	0.52
44:DV:110:GLY:O	44:DV:117:LEU:HD21	2.08	0.52
44:DV:169:GLU:O	44:DV:170:THR:HG23	2.10	0.52
46:DZ:4:VAL:HG22	46:DZ:5:CYS:N	2.25	0.52
49:D4:23:GLU:C	49:D4:24:THR:HG1	2.17	0.52
49:D4:40:HIS:N	49:D4:41:PRO:CD	2.73	0.52
51:D6:14:THR:OG1	51:D6:19:ARG:NE	2.41	0.52
1:AA:664:G:C5'	18:AU:64:ARG:HH21	2.23	0.52
1:AA:1067:A:N3	1:AA:1068:G:H1'	2.24	0.52
1:AA:1104:G:H4'	2:AE:111:ARG:CZ	2.39	0.52
1:AA:1321:C:H3'	1:AA:1322:C:H5"	1.90	0.52
1:AA:1540:U:C2'	1:AA:1541:U:OP1	2.57	0.52
3:AF:12:LEU:O	3:AF:13:GLY:C	2.53	0.52
6:AI:30:LEU:CD2	6:AI:75:LEU:HD11	2.38	0.52
18:AU:82:THR:HG22	18:AU:84:LYS:NZ	2.24	0.52
19:AV:43:GLU:C	19:AV:45:VAL:N	2.66	0.52
20:AW:33:ILE:HD11	20:AW:62:LEU:C	2.35	0.52
21:AX:9:ARG:NH1	21:AX:13:ILE:HD12	2.15	0.52
24:BA:421:U:O2'	24:BA:422:A:P	2.67	0.52
24:BA:962:G:OP1	24:BA:963:U:OP2	2.28	0.52
24:BA:1224:G:H5'	24:BA:1225:C:OP2	2.09	0.52
24:BA:1416:G:HO2'	24:BA:1417:C:H6	1.56	0.52
24:BA:1902:C:C2'	24:BA:1903:G:O5'	2.55	0.52
24:BA:1928:A:H2'	24:BA:1929:G:H5'	1.88	0.52
24:BA:1948:G:H2'	24:BA:1949:G:C5'	2.39	0.52
24:BA:2339:G:H2'	24:BA:2340:G:C8	2.45	0.52
26:BD:10:THR:O	26:BD:11:PRO:O	2.28	0.52
26:BD:69:ARG:NH2	26:BD:105:ILE:HD11	2.24	0.52
27:BE:51:PHE:O	27:BE:74:PRO:HB2	2.09	0.52
28:BF:114:VAL:HG21	28:BF:202:PHE:CZ	2.45	0.52
29:BG:143:GLU:N	49:B4:31:ILE:HD13	2.24	0.52
30:BH:54:ARG:HD2	30:BH:65:HIS:CD2	2.44	0.52
33:BN:49:ARG:HD3	33:BN:49:ARG:H	1.74	0.52
34:BO:105:LEU:O	34:BO:106:LEU:HB2	2.09	0.52
37:BQ:67:ARG:HB2	37:BQ:67:ARG:HH11	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:B2:45:THR:C	40:B2:47:VAL:N	2.68	0.52
41:BS:15:ARG:O	41:BS:19:LEU:HD13	2.10	0.52
44:BV:174:VAL:O	44:BV:174:VAL:HG12	2.09	0.52
47:BW:50:ILE:O	47:BW:53:LEU:N	2.43	0.52
48:BX:6:VAL:HG22	48:BX:56:VAL:CG2	2.39	0.52
1:CA:253:U:H2'	1:CA:254:G:C8	2.45	0.52
1:CA:323:U:H5'	20:CW:23:ARG:HB2	1.91	0.52
1:CA:344:A:H5"	1:CA:345:C:OP2	2.09	0.52
1:CA:429:U:H1'	1:CA:430:A:H5"	1.92	0.52
1:CA:1027:C:O2'	1:CA:1028:C:P	2.68	0.52
2:CE:9:GLU:OE2	2:CE:9:GLU:N	2.42	0.52
2:CE:87:ARG:HH11	2:CE:223:ILE:HD12	1.73	0.52
2:CE:178:ARG:HH22	8:CK:68:ARG:HH22	1.53	0.52
2:CE:232:PRO:O	2:CE:233:SER:O	2.27	0.52
3:CF:20:SER:CB	3:CF:40:ARG:HH22	2.14	0.52
7:CJ:44:TYR:C	7:CJ:46:ALA:N	2.66	0.52
9:CL:13:ALA:HB2	9:CL:68:GLY:HA3	1.91	0.52
12:CO:32:PHE:HE1	12:CO:86:ARG:HG3	1.73	0.52
13:CP:92:HIS:CD2	13:CP:98:VAL:HG21	2.43	0.52
16:CS:34:GLU:OE1	16:CS:55:ARG:HD3	2.10	0.52
17:CT:62:SER:HB3	17:CT:72:ARG:HH21	1.72	0.52
20:CW:13:LEU:HD12	20:CW:13:LEU:C	2.34	0.52
24:DA:637:A:OP1	34:DO:133:SER:HB3	2.08	0.52
24:DA:669:G:N3	24:DA:669:G:H2'	2.25	0.52
24:DA:704:G:H1'	24:DA:727:A:H61	1.74	0.52
24:DA:950:G:O2'	24:DA:951:C:H5'	2.08	0.52
24:DA:1101:U:H2'	24:DA:1102:C:C6	2.42	0.52
24:DA:1288:U:C4'	24:DA:1289:C:OP2	2.57	0.52
24:DA:1608:A:O2'	24:DA:1610:A:P	2.68	0.52
24:DA:1929:G:H8	24:DA:1929:G:C3'	2.20	0.52
24:DA:2419:U:O2'	24:DA:2420:C:H5'	2.09	0.52
24:DA:2654:A:C2	24:DA:2665:A:H5'	2.43	0.52
26:DD:66:ASP:OD2	26:DD:69:ARG:HG2	2.09	0.52
28:DF:192:LEU:HD21	28:DF:194:MET:CE	2.35	0.52
29:DG:111:LEU:HB2	49:D4:38:LYS:HZ3	1.73	0.52
30:DH:24:VAL:O	30:DH:24:VAL:HG23	2.09	0.52
30:DH:121:ILE:HG12	30:DH:135:GLY:HA3	1.91	0.52
31:DK:25:TYR:CE2	31:DK:29:TYR:CD2	2.97	0.52
31:DK:67:ARG:NH2	31:DK:68:LEU:HB2	2.24	0.52
31:DK:120:ILE:HD11	31:DK:126:TYR:OH	2.10	0.52
33:DN:79:PHE:CD2	38:DR:72:VAL:HG22	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DP:29:PHE:HB3	35:DP:65:PHE:CZ	2.44	0.52
36:D0:53:HIS:HA	36:D0:56:LYS:HD3	1.90	0.52
38:DR:94:ALA:O	38:DR:95:ARG:HB3	2.09	0.52
38:DR:100:TYR:HB3	38:DR:103:ARG:NH1	2.25	0.52
47:DW:50:ILE:CD1	47:DW:51:ARG:N	2.61	0.52
49:D4:48:ARG:CZ	49:D4:51:ASP:HA	2.40	0.52
53:D8:61:LEU:O	53:D8:62:LEU:CB	2.57	0.52
22:CB:13:C:O2'	22:CB:14:A:H5'	2.10	0.52
22:CB:20:G:N2	22:CB:57:C:N3	2.56	0.52
1:AA:922:G:H2'	1:AA:923:A:C8	2.44	0.52
1:AA:999:U:H1'	1:AA:1042:G:N2	2.23	0.52
1:AA:1506:U:O2'	1:AA:1507:A:P	2.67	0.52
6:AI:87:ARG:O	6:AI:88:VAL:HG23	2.10	0.52
13:AP:23:TYR:CD1	13:AP:71:ARG:HD2	2.45	0.52
19:AV:51:VAL:O	19:AV:57:HIS:HA	2.09	0.52
21:AX:8:THR:CG2	21:AX:9:ARG:N	2.73	0.52
22:AC:1:C:O2'	22:AC:2:G:H5'	2.10	0.52
24:BA:270(N):G:O2'	24:BA:270(P):C:H5"	2.10	0.52
24:BA:524:U:H2'	24:BA:525:U:H6	1.74	0.52
24:BA:1060:U:H1'	24:BA:1062:G:H5'	1.91	0.52
24:BA:1378:A:O2'	24:BA:1379:A:H5'	2.00	0.52
24:BA:1392:A:C6	24:BA:1393:A:C6	2.97	0.52
24:BA:1399:C:H2'	24:BA:1400:G:H8	1.73	0.52
24:BA:1839:G:C8	24:BA:1927:A:H1'	2.44	0.52
24:BA:2166:G:O2'	24:BA:2167:U:C6	2.60	0.52
24:BA:2250:G:C4	35:BP:82:ARG:CD	2.93	0.52
24:BA:2352:A:C2	45:B3:33:ALA:O	2.62	0.52
25:BB:27:C:N4	25:BB:28:C:N4	2.57	0.52
26:BD:11:PRO:O	26:BD:13:ARG:N	2.43	0.52
28:BF:24:LEU:HB3	28:BF:25:PRO:HD2	1.91	0.52
28:BF:101:LEU:HD12	28:BF:102:PRO:CD	2.38	0.52
28:BF:117:ARG:HD2	28:BF:190:GLU:O	2.09	0.52
29:BG:13:GLU:O	29:BG:14:GLU:HB2	2.10	0.52
29:BG:16:ARG:HH21	29:BG:31:VAL:CG1	2.22	0.52
29:BG:77:ILE:O	29:BG:81:LYS:O	2.27	0.52
29:BG:98:ARG:HA	29:BG:101:ILE:HG12	1.92	0.52
32:BM:93:THR:O	32:BM:94:HIS:C	2.52	0.52
36:B0:45:ARG:HB2	36:B0:95:THR:HG21	1.91	0.52
37:BQ:27:SER:HA	37:BQ:88:ASP:HB2	1.91	0.52
39:B1:76:TYR:O	39:B1:79:PHE:HB3	2.10	0.52
40:B2:13:ARG:NH1	40:B2:15:GLU:OE1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:B2:70:ILE:HG22	40:B2:72:VAL:CG2	2.37	0.52
44:BV:5:LEU:HD11	44:BV:39:VAL:HG12	1.92	0.52
44:BV:128:VAL:HG22	44:BV:129:SER:N	2.23	0.52
44:BV:157:LEU:O	44:BV:158:PRO:O	2.28	0.52
46:BZ:89:GLU:C	46:BZ:91:LYS:H	2.17	0.52
1:CA:300:A:H2'	1:CA:301:G:O4'	2.10	0.52
1:CA:892:A:H2'	1:CA:893:C:C6	2.44	0.52
1:CA:972:C:H4'	10:CM:57:LYS:HG3	1.92	0.52
1:CA:1534:A:H2'	1:CA:1535:C:H41	1.74	0.52
2:CE:5:ILE:N	2:CE:5:ILE:HD13	2.24	0.52
2:CE:233:SER:OG	2:CE:234:PRO:HD2	2.09	0.52
3:CF:140:ARG:HH11	3:CF:140:ARG:HG3	1.75	0.52
3:CF:181:ASN:HD21	3:CF:204:LEU:CD1	2.11	0.52
5:CH:12:LEU:O	5:CH:13:ILE:HD12	2.08	0.52
6:CI:89:MET:O	6:CI:90:VAL:C	2.51	0.52
8:CK:102:ARG:NH1	8:CK:105:ARG:HH22	2.08	0.52
13:CP:65:LYS:CE	49:D4:50:VAL:HG11	2.40	0.52
16:CS:4:ILE:HD12	16:CS:4:ILE:N	2.23	0.52
18:CU:44:LEU:HD12	18:CU:44:LEU:N	2.24	0.52
24:DA:481:G:O2'	24:DA:482:A:P	2.67	0.52
24:DA:704:G:C2'	24:DA:726:G:H22	2.07	0.52
24:DA:865:C:H5'	24:DA:866:A:OP1	2.09	0.52
24:DA:901:A:H5'	24:DA:902:C:OP2	2.08	0.52
24:DA:1332:G:N2	24:DA:1610:A:C8	2.77	0.52
24:DA:1908:C:H2'	24:DA:1909:C:H6	1.75	0.52
24:DA:2258:C:H2'	24:DA:2426:A:H5"	1.91	0.52
24:DA:2770:G:H5"	24:DA:2771:C:OP2	2.10	0.52
28:DF:162:LEU:HD23	28:DF:165:ARG:NH2	2.25	0.52
29:DG:124:SER:HB2	29:DG:131:TYR:CE1	2.44	0.52
31:DK:109:ILE:HB	31:DK:130:TYR:CZ	2.43	0.52
36:D0:52:ILE:CG2	36:D0:94:TYR:HD1	2.22	0.52
37:DQ:25:ARG:HH11	37:DQ:25:ARG:CB	2.22	0.52
37:DQ:83:LYS:O	37:DQ:109:GLY:CA	2.46	0.52
38:DR:36:GLU:O	38:DR:37:GLY:C	2.53	0.52
40:D2:34:GLU:O	40:D2:36:PRO:HD3	2.10	0.52
41:DS:32:ALA:O	41:DS:33:ARG:C	2.52	0.52
43:DU:91:GLU:HG3	43:DU:92:ASN:N	2.25	0.52
44:DV:59:LEU:O	44:DV:60:GLU:CG	2.54	0.52
47:DW:7:ARG:HG3	47:DW:7:ARG:NH1	2.25	0.52
48:DX:9:VAL:HG12	48:DX:32:GLN:HE22	1.74	0.52
53:D8:43:GLN:C	53:D8:44:LYS:HD2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:234:C:O2'	1:AA:235:C:H5'	2.10	0.52
1:AA:468:A:C2'	1:AA:474:G:H5'	2.40	0.52
1:AA:1349:A:OP2	9:AL:118:LYS:HE2	2.10	0.52
2:AE:47:THR:HA	2:AE:202:PRO:HG3	1.92	0.52
2:AE:177:ALA:C	2:AE:179:LYS:N	2.68	0.52
3:AF:71:ALA:C	3:AF:72:LYS:HD2	2.35	0.52
3:AF:174:PRO:CB	3:AF:177:THR:HG22	2.40	0.52
4:AG:173:TRP:CZ3	4:AG:193:ASP:HB3	2.44	0.52
10:AM:54:PHE:C	10:AM:55:LYS:CG	2.82	0.52
15:AR:2:PRO:HG2	15:AR:3:ILE:HD13	1.91	0.52
19:AV:32:LYS:O	19:AV:33:THR:HB	2.09	0.52
19:AV:51:VAL:HG11	19:AV:72:GLY:HA2	1.91	0.52
22:AC:50:U:H2'	22:AC:51:C:C6	2.44	0.52
24:BA:80:G:C2'	24:BA:81:G:H5'	2.40	0.52
24:BA:1012:U:O4	32:BM:25:ARG:HA	2.10	0.52
24:BA:1098:A:H3'	24:BA:1099:G:C5'	2.40	0.52
24:BA:1212:G:O2'	24:BA:1213:A:P	2.67	0.52
24:BA:1265:A:H1'	24:BA:1267:U:C6	2.43	0.52
24:BA:2557:G:H2'	24:BA:2558:C:H6	1.74	0.52
24:BA:2600:A:C6	24:BA:2601:C:N4	2.77	0.52
24:BA:2611:U:O2'	50:B5:3:LYS:HD3	2.09	0.52
26:BD:63:ARG:O	26:BD:65:ILE:HG23	2.10	0.52
28:BF:57:VAL:HG12	28:BF:58:ALA:N	2.25	0.52
30:BH:24:VAL:HG22	30:BH:35:VAL:HB	1.90	0.52
33:BN:10:VAL:O	33:BN:10:VAL:HG23	2.08	0.52
34:BO:98:GLU:HA	34:BO:101:VAL:CG1	2.33	0.52
38:BR:86:ILE:O	38:BR:86:ILE:HG12	2.09	0.52
39:B1:102:GLU:HA	39:B1:104:GLN:OE1	2.09	0.52
43:BU:19:LYS:O	43:BU:21:LYS:N	2.41	0.52
44:BV:118:GLN:HG2	44:BV:118:GLN:O	2.08	0.52
45:B3:72:ARG:HB2	45:B3:75:LEU:HB2	1.90	0.52
47:BW:7:ARG:HB3	47:BW:7:ARG:HH11	1.73	0.52
1:CA:150:C:H6	1:CA:150:C:O5'	1.91	0.52
1:CA:197:A:N6	1:CA:221:C:H5'	2.24	0.52
1:CA:448:A:N3	1:CA:449:C:O2	2.42	0.52
1:CA:538:G:H5"	12:CO:114:LYS:HB2	1.91	0.52
1:CA:873:A:H4'	1:CA:874:G:OP1	2.06	0.52
1:CA:1060:C:C4	3:CF:2:GLY:HA2	2.45	0.52
1:CA:1060:C:O2'	1:CA:1061:G:H5'	2.09	0.52
1:CA:1473:A:H2'	1:CA:1474:G:O4'	2.08	0.52
3:CF:112:SER:HB3	3:CF:115:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:176:LEU:HD12	4:CG:182:LYS:O	2.10	0.52
4:CG:206:PHE:HD2	4:CG:207:TYR:CD1	2.27	0.52
11:CN:124:LYS:O	11:CN:126:ARG:N	2.40	0.52
12:CO:127:GLU:O	12:CO:128:ALA:HB3	2.10	0.52
13:CP:82:MET:HE3	13:CP:93:ARG:HG2	1.91	0.52
16:CS:1:MET:SD	16:CS:3:LYS:HE3	2.49	0.52
22:CD:27:U:H2'	22:CD:28:C:C6	2.44	0.52
24:DA:558:G:OP1	32:DM:111:PRO:HD2	2.08	0.52
24:DA:2009:G:OP1	41:DS:41:LYS:HE2	2.10	0.52
24:DA:2315:G:H2'	24:DA:2316:C:H6	1.74	0.52
24:DA:2415:G:H4'	34:DO:66:GLY:C	2.34	0.52
25:DB:92:G:O2'	25:DB:93:C:H5'	2.10	0.52
25:DB:104:A:O2'	44:DV:30:ASN:HA	2.10	0.52
26:DD:155:LEU:CD1	26:DD:155:LEU:N	2.71	0.52
32:DM:7:LYS:HD3	32:DM:9:VAL:N	2.25	0.52
38:DR:99:LEU:HB2	38:DR:101:PHE:CE1	2.45	0.52
44:DV:51:ALA:O	44:DV:52:SER:HB3	2.09	0.52
45:D3:74:ARG:C	45:D3:76:GLY:N	2.67	0.52
49:D4:54:GLY:O	49:D4:71:ARG:HA	2.08	0.52
50:D5:55:ARG:HG3	50:D5:57:VAL:H	1.74	0.52
1:AA:179:A:O2'	1:AA:180:U:H5'	2.10	0.52
1:AA:491:G:O2'	1:AA:492:G:H5'	2.10	0.52
1:AA:704:A:N3	1:AA:704:A:H2'	2.24	0.52
1:AA:1029:G:H2'	1:AA:1030:C:O5'	2.10	0.52
1:AA:1179:A:H4'	9:AL:103:THR:HA	1.92	0.52
1:AA:1239:A:N6	1:AA:1299:A:H62	2.07	0.52
1:AA:1402:C:O2	1:AA:1500:A:N1	2.43	0.52
3:AF:43:LEU:HD21	3:AF:101:LEU:HD11	1.90	0.52
3:AF:84:ILE:HG23	3:AF:88:ARG:NE	2.25	0.52
7:AJ:71:PRO:HD3	7:AJ:103:TRP:HZ3	1.74	0.52
11:AN:13:GLN:CG	11:AN:76:GLY:HA3	2.37	0.52
11:AN:66:LEU:C	11:AN:68:ALA:N	2.66	0.52
12:AO:34:ARG:HG2	12:AO:35:GLY:N	2.24	0.52
15:AR:2:PRO:HG2	15:AR:3:ILE:CD1	2.40	0.52
19:AV:41:VAL:O	19:AV:42:PRO:C	2.50	0.52
22:AD:12:G:C2'	22:AD:13:C:OP1	2.57	0.52
22:AD:22:G:O2'	22:AD:23:C:P	2.68	0.52
24:BA:391:G:H2'	24:BA:392:C:C6	2.45	0.52
24:BA:1427:A:O2'	24:BA:1428:C:OP2	2.23	0.52
24:BA:1681:G:C2'	24:BA:1762:A:HO2'	2.22	0.52
24:BA:1754:C:H5	38:BR:96:ARG:NH2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1945:G:H2'	24:BA:1946:U:C6	2.44	0.52
24:BA:2147:G:H2'	24:BA:2148:G:C8	2.45	0.52
25:BB:28:C:H2'	25:BB:29:A:O4'	2.09	0.52
25:BB:38:C:H6	25:BB:38:C:O5'	1.93	0.52
26:BD:43:ARG:NH1	26:BD:49:ILE:CG2	2.73	0.52
26:BD:221:VAL:CG1	26:BD:226:MET:HE2	2.37	0.52
29:BG:16:ARG:N	29:BG:17:PRO:HD2	2.25	0.52
30:BH:7:LEU:HD11	30:BH:66:GLY:CA	2.31	0.52
32:BM:28:THR:HA	32:BM:106:MET:HE1	1.90	0.52
35:BP:97:VAL:HG11	35:BP:103:MET:SD	2.49	0.52
36:B0:52:ILE:O	36:B0:55:ALA:HB3	2.10	0.52
36:B0:94:TYR:CD1	36:B0:94:TYR:N	2.76	0.52
38:BR:77:PRO:O	38:BR:78:LEU:C	2.51	0.52
42:BT:60:ARG:O	42:BT:61:GLY:C	2.53	0.52
51:B6:31:PRO:O	51:B6:32:ASN:CB	2.57	0.52
52:B7:19:ARG:HG2	52:B7:19:ARG:NH1	2.22	0.52
1:CA:687:A:H61	1:CA:703:G:H1'	1.75	0.52
1:CA:815:A:HO2'	1:CA:816:A:P	2.32	0.52
1:CA:1079:G:C6	1:CA:1080:A:N6	2.78	0.52
1:CA:1536:C:C4	23:C1:10:G:N2	2.78	0.52
2:CE:200:ILE:HG22	2:CE:201:ILE:N	2.24	0.52
4:CG:147:ALA:HA	4:CG:182:LYS:HA	1.91	0.52
5:CH:101:ILE:N	5:CH:101:ILE:HD13	2.25	0.52
7:CJ:8:GLU:CD	7:CJ:8:GLU:N	2.67	0.52
8:CK:33:GLU:C	8:CK:35:ILE:N	2.65	0.52
10:CM:4:ILE:HB	10:CM:74:ILE:CD1	2.37	0.52
10:CM:6:ILE:CG2	10:CM:98:ILE:HG13	2.21	0.52
11:CN:46:GLY:HA2	11:CN:50:TYR:O	2.10	0.52
24:DA:298:G:P	43:DU:85:VAL:HG22	2.49	0.52
24:DA:876:C:H2'	24:DA:877:U:O4'	2.09	0.52
24:DA:1264:G:H5'	50:D5:11:THR:CG2	2.39	0.52
24:DA:1419:A:C8	24:DA:1579:A:N6	2.78	0.52
24:DA:2286:A:H61	51:D6:24:GLU:CD	2.17	0.52
24:DA:2693:A:H2'	24:DA:2694:G:H8	1.75	0.52
26:DD:36:PRO:HA	26:DD:62:TYR:O	2.09	0.52
26:DD:174:ILE:N	26:DD:174:ILE:CD1	2.73	0.52
27:DE:54:GLN:O	27:DE:55:ASN:HB2	2.09	0.52
27:DE:55:ASN:C	27:DE:57:LYS:N	2.62	0.52
27:DE:61:ARG:O	27:DE:63:LEU:N	2.42	0.52
27:DE:176:ILE:HG22	27:DE:176:ILE:O	2.10	0.52
28:DF:29:ASN:H	28:DF:112:MET:HE3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:196:LEU:C	28:DF:197:ASP:O	2.50	0.52
35:DP:119:ARG:HG2	35:DP:119:ARG:NH1	2.20	0.52
37:DQ:89:ARG:HH11	37:DQ:89:ARG:HG2	1.74	0.52
38:DR:42:ILE:HD12	38:DR:42:ILE:N	2.25	0.52
43:DU:61:ILE:HG23	43:DU:62:GLU:N	2.25	0.52
45:D3:35:ASN:N	45:D3:35:ASN:ND2	2.49	0.52
51:D6:30:THR:O	51:D6:30:THR:HG23	2.09	0.52
22:CB:19:G:N2	22:CB:62:C:C6	2.78	0.52
1:AA:511:C:O2'	1:AA:512:U:O5'	2.27	0.52
1:AA:965:A:C2	1:AA:969:A:C2	2.98	0.52
1:AA:1117:G:O3'	9:AL:104:ARG:HD3	2.09	0.52
1:AA:1256:A:OP2	3:AF:26:LYS:HE2	2.10	0.52
1:AA:1313:U:OP2	19:AV:6:LYS:HB3	2.09	0.52
2:AE:15:VAL:HG11	2:AE:213:LEU:CD1	2.39	0.52
2:AE:74:LYS:NZ	2:AE:169:LYS:HG3	2.25	0.52
3:AF:59:ARG:NE	3:AF:64:VAL:HG12	2.24	0.52
4:AG:100:ARG:HH12	4:AG:137:SER:HB3	1.75	0.52
5:AH:111:GLU:O	5:AH:113:ALA:N	2.36	0.52
6:AI:94:GLN:HE22	18:AU:32:ARG:NH1	2.08	0.52
7:AJ:34:GLY:O	7:AJ:35:LYS:HG3	2.10	0.52
9:AL:27:THR:OG1	9:AL:31:GLN:O	2.27	0.52
13:AP:3:ARG:HH12	29:BG:113:ARG:HG2	1.75	0.52
13:AP:11:ARG:O	13:AP:12:ASN:C	2.53	0.52
13:AP:67:GLU:O	13:AP:70:LEU:HD13	2.10	0.52
16:AS:52:ASP:OD1	16:AS:55:ARG:HG3	2.10	0.52
22:AC:44:A:H2'	22:AC:45:G:O4'	2.10	0.52
24:BA:18:C:H2'	24:BA:19:C:C6	2.45	0.52
24:BA:222:A:O2'	24:BA:223:A:OP1	2.27	0.52
24:BA:747:U:O2	24:BA:2014:A:H1'	2.09	0.52
24:BA:958:U:H5'	24:BA:958:U:H6	1.74	0.52
24:BA:1278:A:H5"	36:B0:36:THR:HG22	1.90	0.52
24:BA:1416:G:C2'	24:BA:1417:C:C6	2.93	0.52
24:BA:1502:C:H5'	24:BA:1503:U:OP2	2.10	0.52
24:BA:1644:C:O2	24:BA:1644:C:H2'	2.09	0.52
24:BA:1690:A:H2'	24:BA:1691:C:O4'	2.10	0.52
24:BA:1885:A:H5'	24:BA:1886:C:OP2	2.10	0.52
24:BA:2182:G:H2'	24:BA:2183:C:C6	2.45	0.52
24:BA:2298:A:H2'	24:BA:2299:G:O4'	2.10	0.52
24:BA:2672:G:H2'	24:BA:2673:G:H5"	1.92	0.52
25:BB:102:G:H8	25:BB:102:G:O5'	1.93	0.52
25:BB:110:G:C2'	25:BB:111:U:H5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:36:ARG:O	27:BE:37:ARG:C	2.53	0.52
28:BF:12:LEU:O	28:BF:13:SER:C	2.53	0.52
30:BH:149:ARG:HA	30:BH:162:ILE:HG21	1.91	0.52
32:BM:95:PRO:C	32:BM:97:ARG:N	2.67	0.52
36:B0:39:PRO:C	36:B0:41:ALA:N	2.64	0.52
37:BQ:14:VAL:HG21	37:BQ:89:ARG:HH11	1.75	0.52
39:B1:102:GLU:N	39:B1:103:PRO:CD	2.73	0.52
43:BU:5:MET:HE1	43:BU:32:PRO:CA	2.39	0.52
43:BU:38:ILE:HG22	43:BU:66:PRO:CA	2.37	0.52
43:BU:81:LYS:HB3	43:BU:82:PRO:HD2	1.91	0.52
51:B6:52:VAL:HG22	51:B6:53:LYS:N	2.16	0.52
1:CA:102:G:H2'	1:CA:103:C:C6	2.43	0.52
1:CA:590:C:O2'	1:CA:591:U:H5'	2.10	0.52
1:CA:1014:A:C5'	19:CV:14:HIS:CD2	2.93	0.52
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.25	0.52
1:CA:1289:A:OP1	21:CX:10:ARG:HD3	2.09	0.52
1:CA:1314:C:N4	19:CV:2:PRO:O	2.43	0.52
2:CE:80:ILE:HD11	2:CE:208:ILE:CG2	2.23	0.52
2:CE:82:ARG:HB3	2:CE:83:MET:HE2	1.92	0.52
2:CE:170:GLU:C	2:CE:172:ILE:HD12	2.33	0.52
4:CG:155:LEU:O	4:CG:159:ARG:HG2	2.10	0.52
9:CL:3:GLN:HB3	9:CL:20:ARG:CG	2.40	0.52
13:CP:66:LEU:O	13:CP:68:GLY:N	2.43	0.52
15:CR:61:GLY:C	15:CR:65:ARG:NH1	2.67	0.52
16:CS:45:THR:HG23	16:CS:46:PRO:CD	2.39	0.52
19:CV:3:ARG:HG3	19:CV:4:SER:N	2.24	0.52
24:DA:17:G:H2'	24:DA:18:C:C6	2.44	0.52
24:DA:99:U:O2'	24:DA:101:G:P	2.67	0.52
24:DA:163:U:H4'	24:DA:164:U:H5	1.74	0.52
24:DA:297:C:H5"	43:DU:85:VAL:CG2	2.34	0.52
24:DA:322:A:H1'	24:DA:339:U:O2	2.10	0.52
24:DA:470:A:H5'	24:DA:470:A:C8	2.43	0.52
24:DA:1169:G:H2'	24:DA:1170:G:C5'	2.28	0.52
24:DA:1583:A:H2'	24:DA:1583:A:N3	2.25	0.52
24:DA:2854:G:H2'	24:DA:2855:C:H6	1.74	0.52
26:DD:133:LEU:HG	26:DD:189:CYS:O	2.10	0.52
27:DE:170:LEU:CD2	27:DE:185:LYS:HB2	2.40	0.52
28:DF:108:LYS:O	28:DF:112:MET:HG3	2.10	0.52
28:DF:132:VAL:O	28:DF:133:ASN:C	2.52	0.52
31:DK:52:ARG:HB3	31:DK:52:ARG:NH1	2.25	0.52
32:DM:12:ARG:NH1	32:DM:50:ASP:OD1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DN:2:ILE:CD1	33:DN:82:ASN:HD22	2.14	0.52
37:DQ:62:LYS:HB3	37:DQ:97:ARG:CD	2.39	0.52
40:D2:48:GLY:O	40:D2:49:THR:C	2.52	0.52
44:DV:107:THR:CG2	44:DV:108:PRO:HA	2.40	0.52
49:D4:15:ILE:HD13	49:D4:15:ILE:H	1.74	0.52
1:AA:34:C:O2'	1:AA:35:G:H5'	2.09	0.52
1:AA:115:G:O2'	1:AA:116:A:N7	2.43	0.52
1:AA:154:C:O2'	1:AA:155:C:H5'	2.10	0.52
1:AA:179:A:H2'	1:AA:180:U:H6	1.72	0.52
1:AA:977:A:N6	1:AA:1224:G:OP1	2.43	0.52
1:AA:1028(A):C:H2'	1:AA:1028(B):C:C6	2.45	0.52
1:AA:1135:U:HO2'	1:AA:1136:U:P	2.32	0.52
1:AA:1394:A:H5"	1:AA:1395:C:OP2	2.09	0.52
1:AA:1400:C:H5"	1:AA:1401:G:OP2	2.10	0.52
3:AF:113:ALA:HB2	3:AF:183:ASP:HB3	1.91	0.52
4:AG:26:CYS:HA	4:AG:31:CYS:SG	2.49	0.52
4:AG:150:GLU:O	4:AG:151:LYS:C	2.53	0.52
6:AI:69:GLU:HG2	6:AI:70:ASP:H	1.75	0.52
11:AN:9:LYS:O	11:AN:10:VAL:HB	2.10	0.52
13:AP:79:LYS:O	13:AP:82:MET:HB3	2.10	0.52
17:AT:19:VAL:HG22	17:AT:44:ALA:HB3	1.92	0.52
19:AV:36:ARG:O	19:AV:37:ARG:C	2.52	0.52
19:AV:36:ARG:NE	19:AV:70:LYS:HB2	2.25	0.52
22:AD:56:C:C3'	22:AD:57:A:H5"	2.40	0.52
24:BA:242:G:C2'	24:BA:243:U:OP2	2.58	0.52
24:BA:407:G:H2'	24:BA:408:G:C8	2.43	0.52
24:BA:479:A:H4'	24:BA:480:A:H5'	1.90	0.52
24:BA:607:U:O4	24:BA:608:A:C5	2.63	0.52
24:BA:848:G:H2'	24:BA:849:A:H8	1.70	0.52
24:BA:859:G:HO2'	24:BA:860:U:P	2.33	0.52
24:BA:859:G:C2'	24:BA:860:U:OP2	2.57	0.52
24:BA:878:A:H61	24:BA:899:A:H1'	1.75	0.52
24:BA:2133:G:H21	24:BA:2158:A:N6	2.08	0.52
24:BA:2481:G:O2'	24:BA:2482:G:P	2.67	0.52
24:BA:2672:G:C3'	24:BA:2673:G:H5"	2.39	0.52
24:BA:2842:G:H21	38:BR:3:ARG:HH22	1.58	0.52
24:BA:2857:G:N2	24:BA:2859:G:H3'	2.24	0.52
24:BA:2867:G:C2'	24:BA:2868:A:OP2	2.58	0.52
25:BB:56:G:H4'	25:BB:57:A:C8	2.45	0.52
26:BD:24:ILE:O	26:BD:25:THR:C	2.52	0.52
26:BD:94:LEU:CD2	26:BD:94:LEU:C	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:8:LYS:O	27:BE:9:VAL:C	2.51	0.52
27:BE:169:ASN:C	27:BE:170:LEU:HD12	2.35	0.52
28:BF:3:GLU:CA	28:BF:24:LEU:HG	2.25	0.52
30:BH:56:SER:HB2	30:BH:58:GLU:OE1	2.10	0.52
30:BH:149:ARG:HA	30:BH:162:ILE:CG2	2.39	0.52
34:BO:131:SER:O	34:BO:132:LYS:C	2.51	0.52
35:BP:141:GLN:CG	44:BV:75:ASN:CG	2.83	0.52
37:BQ:88:ASP:CG	37:BQ:89:ARG:H	2.18	0.52
41:BS:17:VAL:HG11	41:BS:103:ILE:HD11	1.92	0.52
41:BS:96:ILE:C	41:BS:96:ILE:CD1	2.81	0.52
43:BU:87:LYS:CB	43:BU:92:ASN:HB3	2.36	0.52
44:BV:148:ASP:HB2	44:BV:172:ALA:CB	2.40	0.52
46:BZ:20:ARG:HG2	46:BZ:20:ARG:NH1	2.24	0.52
47:BW:15:LYS:HE3	47:BW:67:LYS:NZ	2.25	0.52
47:BW:26:ARG:HB3	47:BW:26:ARG:NH1	2.22	0.52
49:B4:11:PRO:O	49:B4:12:ALA:HB2	2.09	0.52
49:B4:15:ILE:HG22	49:B4:16:CYS:N	2.25	0.52
1:CA:80:G:H5'	1:CA:81:G:OP2	2.10	0.52
1:CA:160:A:N6	1:CA:347:G:H1'	2.24	0.52
1:CA:353:A:H8	1:CA:353:A:H5'	1.74	0.52
1:CA:511:C:H4'	4:CG:43:HIS:CD2	2.45	0.52
1:CA:521:G:O5'	12:CO:73:GLU:HG3	2.10	0.52
1:CA:745:C:H2'	1:CA:746:A:C8	2.44	0.52
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.45	0.52
2:CE:53:ARG:O	2:CE:56:ARG:HB2	2.10	0.52
3:CF:175:LEU:H	3:CF:175:LEU:HD12	1.75	0.52
4:CG:65:ARG:NH1	4:CG:70:ILE:O	2.43	0.52
6:CI:19:LEU:HD23	6:CI:19:LEU:C	2.35	0.52
6:CI:99:ALA:HB1	18:CU:23:LYS:NZ	2.25	0.52
11:CN:99:GLN:HE21	11:CN:105:VAL:HG21	1.75	0.52
13:CP:98:VAL:HG12	13:CP:98:VAL:O	2.10	0.52
15:CR:26:GLU:OE2	15:CR:77:ARG:NH1	2.43	0.52
24:DA:1095:A:N3	24:DA:1095:A:C2'	2.72	0.52
24:DA:1416:G:H2'	24:DA:1417:C:C5	2.45	0.52
24:DA:1936:A:H4'	24:DA:1937:A:OP2	2.10	0.52
24:DA:2108:C:O2'	24:DA:2109:U:H5'	2.10	0.52
24:DA:2314:C:O2'	24:DA:2315:G:H5'	2.10	0.52
24:DA:2656:U:C4	24:DA:2657:A:N7	2.77	0.52
25:DB:7:G:C2'	25:DB:8:U:H5"	2.39	0.52
25:DB:48:A:H2'	25:DB:49:C:H6	1.72	0.52
28:DF:125:LEU:HA	28:DF:194:MET:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DN:16:ALA:HA	33:DN:46:ALA:HB2	1.92	0.52
33:DN:113:LYS:HG2	33:DN:117:LEU:CD1	2.38	0.52
36:D0:41:ALA:O	36:D0:43:GLU:N	2.43	0.52
38:DR:23:ARG:HG2	38:DR:120:ARG:HH12	1.75	0.52
39:D1:59:ARG:O	39:D1:63:VAL:HG23	2.10	0.52
43:DU:9:LYS:HG2	43:DU:9:LYS:O	2.10	0.52
46:DZ:91:LYS:HE3	46:DZ:91:LYS:CA	2.39	0.52
49:D4:55:ARG:C	49:D4:59:PHE:HB3	2.35	0.52
1:AA:133:U:OP1	20:AW:74:LYS:NZ	2.40	0.52
1:AA:291:C:O2'	1:AA:292:G:H5'	2.09	0.52
1:AA:697:U:O2	1:AA:798:G:H1'	2.10	0.52
1:AA:711:G:O2'	1:AA:712:A:H5'	2.09	0.52
1:AA:946:A:H2'	1:AA:947:G:H8	1.71	0.52
1:AA:1037:C:H2'	1:AA:1038:C:H6	1.69	0.52
2:AE:9:GLU:O	2:AE:12:GLU:HG3	2.10	0.52
4:AG:173:TRP:C	4:AG:186:LEU:HD12	2.35	0.52
7:AJ:5:ARG:HH21	7:AJ:7:ALA:CA	2.20	0.52
15:AR:10:LYS:HE3	15:AR:10:LYS:CA	2.40	0.52
18:AU:27:GLY:O	18:AU:29:PHE:HD2	1.93	0.52
19:AV:5:LEU:HD13	19:AV:9:VAL:HG22	1.91	0.52
21:AX:2:GLY:C	21:AX:4:GLY:N	2.67	0.52
24:BA:221:A:H4'	24:BA:222:A:O5'	2.09	0.52
24:BA:943:U:OP2	34:BO:36:LYS:CG	2.53	0.52
24:BA:1212:G:C2'	24:BA:1236:G:N2	2.73	0.52
24:BA:1399:C:O2'	24:BA:1400:G:H5'	2.10	0.52
24:BA:2303:G:O2'	24:BA:2304:G:H5'	2.10	0.52
24:BA:2426:A:C4'	24:BA:2427:C:OP2	2.58	0.52
27:BE:61:ARG:N	27:BE:62:PRO:CD	2.72	0.52
27:BE:197:ILE:HD12	27:BE:198:VAL:N	2.25	0.52
28:BF:24:LEU:HD12	28:BF:25:PRO:HD2	1.90	0.52
31:BK:29:TYR:CE1	31:BK:33:ARG:NE	2.77	0.52
35:BP:34:LEU:HD11	35:BP:129:THR:CB	2.37	0.52
35:BP:34:LEU:CD1	35:BP:129:THR:HB	2.35	0.52
36:B0:12:ARG:HG3	36:B0:12:ARG:NH1	2.25	0.52
36:B0:87:TYR:HD1	36:B0:90:ARG:HE	1.57	0.52
40:B2:43:GLU:OE2	40:B2:43:GLU:HA	2.09	0.52
50:B5:38:ALA:HB3	50:B5:48:GLU:OE2	2.10	0.52
1:CA:89:U:C2'	1:CA:90:C:O5'	2.58	0.52
1:CA:590:C:OP1	8:CK:29:SER:HA	2.10	0.52
1:CA:795:C:H1'	1:CA:1506:U:C5	2.45	0.52
1:CA:1346:A:H5'	9:CL:120:ARG:HH12	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1474:G:H4'	24:DA:1701:A:C2	2.45	0.52
1:CA:1507:A:OP2	23:C1:12:A:N6	2.42	0.52
2:CE:86:GLU:C	2:CE:88:ALA:H	2.17	0.52
6:CI:30:LEU:O	6:CI:35:ALA:HB3	2.10	0.52
7:CJ:151:TYR:HA	7:CJ:153:HIS:CE1	2.45	0.52
13:CP:34:LEU:HD12	13:CP:41:PRO:HG3	1.92	0.52
14:CQ:8:GLU:C	14:CQ:10:ALA:N	2.68	0.52
17:CT:98:LEU:O	17:CT:99:SER:C	2.53	0.52
23:C1:18:G:O2'	23:C1:19:A:OP2	2.24	0.52
24:DA:1045:A:O2'	24:DA:1046:A:P	2.68	0.52
24:DA:1081:U:H5'	24:DA:1082:U:OP2	2.10	0.52
24:DA:1270:C:H5"	24:DA:1271:G:H5'	1.92	0.52
24:DA:2059:A:H5'	24:DA:2060:A:OP2	2.10	0.52
24:DA:2360:A:H8	24:DA:2360:A:O5'	1.92	0.52
24:DA:2712:U:H2'	24:DA:2712(A):A:H3'	1.91	0.52
24:DA:2879:C:H5'	24:DA:2880:C:OP1	2.10	0.52
26:DD:43:ARG:NH1	26:DD:44:ASN:OD1	2.42	0.52
26:DD:165:ILE:C	26:DD:166:GLN:HE21	2.18	0.52
31:DK:85:GLU:OE2	31:DK:85:GLU:HA	2.08	0.52
33:DN:14:THR:HG21	33:DN:86:ILE:HD13	1.91	0.52
33:DN:43:VAL:HG23	33:DN:56:ASP:O	2.10	0.52
37:DQ:56:LEU:O	37:DQ:57:LYS:C	2.53	0.52
38:DR:110:ILE:HG23	38:DR:111:ARG:N	2.24	0.52
38:DR:111:ARG:O	38:DR:112:ARG:CG	2.55	0.52
39:D1:107:ALA:O	39:D1:111:GLU:OE1	2.28	0.52
40:D2:35:LEU:CD2	40:D2:57:VAL:HG22	2.32	0.52
42:DT:52:VAL:O	42:DT:52:VAL:HG12	2.09	0.52
46:DZ:83:GLU:CG	46:DZ:84:GLY:N	2.71	0.52
49:D4:14:ILE:O	49:D4:14:ILE:HG23	2.10	0.52
22:CB:19:G:O2'	22:CB:61:U:N3	2.39	0.52
1:AA:359:U:H2'	1:AA:360:A:C8	2.45	0.51
1:AA:675:A:H2'	1:AA:676:A:H8	1.74	0.51
1:AA:696:A:O2'	1:AA:697:U:H5"	2.10	0.51
1:AA:713:G:H21	1:AA:777:A:C1'	2.24	0.51
4:AG:145:GLU:C	4:AG:146:ILE:HD12	2.35	0.51
10:AM:79:ARG:H	10:AM:79:ARG:CD	2.21	0.51
13:AP:46:LYS:O	13:AP:46:LYS:CG	2.58	0.51
14:AQ:12:ARG:C	14:AQ:14:PRO:HD3	2.35	0.51
22:AC:16:C:O2'	22:AC:60:U:O3'	2.29	0.51
24:BA:917:A:H2'	24:BA:918:A:O4'	2.10	0.51
24:BA:981:A:H8	24:BA:982:C:H5	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1543:A:O2'	24:BA:1544:C:H3'	2.09	0.51
24:BA:1558:A:O2'	24:BA:1559:G:OP2	2.24	0.51
24:BA:2094:G:N2	24:BA:2196:C:H1'	2.24	0.51
25:BB:81:G:O6	25:BB:96:G:C5	2.62	0.51
26:BD:23:GLU:C	26:BD:25:THR:N	2.68	0.51
26:BD:35:LYS:CE	26:BD:65:ILE:HG22	2.40	0.51
28:BF:20:LEU:HD22	28:BF:23:ASP:OD2	2.10	0.51
30:BH:6:ARG:HH12	30:BH:62:LYS:HD3	1.75	0.51
30:BH:115:VAL:HG11	30:BH:148:ILE:CD1	2.40	0.51
33:BN:120:GLU:HB2	38:BR:68:TYR:HE2	1.75	0.51
34:BO:99:LEU:HD12	34:BO:102:ARG:HH11	1.75	0.51
35:BP:38:GLU:HB2	35:BP:127:ILE:CG2	2.37	0.51
35:BP:55:VAL:CG1	35:BP:56:ARG:N	2.73	0.51
35:BP:137:TYR:CE1	44:BV:83:PRO:HG2	2.46	0.51
37:BQ:35:ILE:HG22	37:BQ:53:SER:HB2	1.92	0.51
47:BW:13:ALA:HA	47:BW:16:LEU:HD21	1.92	0.51
47:BW:50:ILE:CD1	47:BW:51:ARG:N	2.69	0.51
53:B8:34:TRP:CG	53:B8:35:GLN:N	2.77	0.51
53:B8:35:GLN:O	53:B8:35:GLN:HG3	2.10	0.51
1:CA:277:C:H5"	17:CT:68:ARG:NH2	2.25	0.51
1:CA:545:C:H5"	4:CG:72:GLU:HG2	1.92	0.51
1:CA:560:U:O2'	1:CA:561:U:OP2	2.21	0.51
1:CA:1100:C:OP2	2:CE:96:ARG:HG2	2.10	0.51
1:CA:1177:G:H2'	1:CA:1178:G:C4	2.45	0.51
1:CA:1285:A:O2'	1:CA:1286:A:OP2	2.26	0.51
3:CF:6:HIS:C	3:CF:8:ILE:H	2.18	0.51
3:CF:22:TRP:CZ3	3:CF:32:LEU:HD12	2.45	0.51
3:CF:40:ARG:O	3:CF:44:GLU:HG3	2.10	0.51
4:CG:106:TYR:CE1	4:CG:112:VAL:O	2.62	0.51
4:CG:127:THR:CG2	4:CG:128:VAL:N	2.73	0.51
4:CG:162:LEU:HD11	4:CG:181:MET:HB3	1.92	0.51
4:CG:173:TRP:C	4:CG:186:LEU:HB2	2.35	0.51
8:CK:51:VAL:HG11	8:CK:60:ARG:HG3	1.92	0.51
9:CL:112:LYS:HD3	9:CL:112:LYS:C	2.35	0.51
11:CN:102:GLY:O	11:CN:103:LEU:C	2.53	0.51
13:CP:87:TYR:C	13:CP:89:GLY:H	2.18	0.51
13:CP:90:LEU:CB	13:CP:93:ARG:HD2	2.40	0.51
19:CV:15:LEU:HD23	19:CV:15:LEU:H	1.74	0.51
22:CD:3:C:O2'	22:CD:4:G:H5'	2.10	0.51
22:CD:66:C:H2'	22:CD:67:C:C6	2.45	0.51
23:C1:18:G:C2'	23:C1:19:A:OP2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:634:C:H2'	24:DA:635:C:C6	2.45	0.51
24:DA:747:U:N1	50:D5:2:ALA:HB3	2.26	0.51
24:DA:1020:A:N1	24:DA:1141:U:C2'	2.73	0.51
24:DA:1027:A:N6	24:DA:1126:A:H1'	2.25	0.51
24:DA:1316:U:H2'	24:DA:1317:A:C8	2.45	0.51
24:DA:1543:A:HO2'	24:DA:1544:C:H3'	1.68	0.51
24:DA:2815:C:H5'	50:D5:29:THR:HG21	1.92	0.51
28:DF:67:GLN:O	28:DF:68:LYS:CB	2.39	0.51
29:DG:44:GLY:CA	29:DG:88:ILE:HD11	2.40	0.51
30:DH:153:LYS:HG3	30:DH:161:GLY:HA2	1.91	0.51
31:DK:69:LYS:O	31:DK:73:GLU:HB2	2.10	0.51
34:DO:112:LEU:HD22	34:DO:113:LYS:H	1.75	0.51
43:DU:56:PRO:O	43:DU:57:GLN:C	2.53	0.51
46:DZ:29:GLY:C	46:DZ:30:VAL:CG2	2.82	0.51
49:D4:68:ARG:HD3	49:D4:69:LYS:HG2	1.92	0.51
53:D8:52:LYS:N	53:D8:53:PRO:HD2	2.22	0.51
1:AA:29:G:O2'	1:AA:295:C:H4'	2.10	0.51
1:AA:39:G:N7	1:AA:547:A:H8	2.08	0.51
1:AA:464:G:N2	1:AA:467:G:N7	2.58	0.51
1:AA:713:G:N2	1:AA:777:A:H1'	2.25	0.51
1:AA:1111:A:N1	3:AF:177:THR:HB	2.25	0.51
1:AA:1157:A:O2'	1:AA:1158:C:H5"	2.10	0.51
1:AA:1372:U:H2'	1:AA:1373:G:H5'	1.92	0.51
2:AE:32:ILE:O	2:AE:43:ASP:HB2	2.09	0.51
2:AE:36:ARG:HG2	2:AE:37:ASN:ND2	2.26	0.51
2:AE:130:ARG:NH1	2:AE:130:ARG:HG2	2.25	0.51
3:AF:60:ALA:O	3:AF:61:ALA:HB3	2.11	0.51
4:AG:190:ASP:O	4:AG:191:ARG:C	2.51	0.51
5:AH:63:ARG:HG2	5:AH:66:MET:HE1	1.92	0.51
5:AH:127:ASN:O	5:AH:128:PRO:C	2.53	0.51
6:AI:28:ARG:HA	6:AI:28:ARG:HH11	1.73	0.51
13:AP:45:VAL:O	13:AP:47:ASP:N	2.43	0.51
13:AP:53:VAL:HG12	13:AP:57:ARG:HH11	1.76	0.51
14:AQ:22:THR:O	14:AQ:23:ARG:HB2	2.09	0.51
17:AT:87:LYS:O	17:AT:91:ARG:HD3	2.09	0.51
22:AC:75:C:C3'	22:AC:76:A:H5"	2.24	0.51
23:A1:12:A:H5'	23:A1:13:A:OP1	2.10	0.51
23:A1:13:A:H2'	23:A1:14:A:OP1	2.10	0.51
24:BA:80:G:H4'	24:BA:346:A:C8	2.45	0.51
24:BA:242:G:HO2'	24:BA:254:G:H1	1.56	0.51
24:BA:503:A:H5"	24:BA:504:U:OP1	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:548:A:H2'	24:BA:549:G:C5'	2.40	0.51
24:BA:686:G:H1'	52:B7:6:GLN:O	2.10	0.51
24:BA:1060:U:O2	24:BA:1088:A:H8	1.92	0.51
24:BA:1652:A:O3'	24:BA:1653:G:C8	2.63	0.51
24:BA:1698:A:O2'	24:BA:1699:G:H5"	2.10	0.51
24:BA:2193:G:H5'	24:BA:2193:G:H8	1.75	0.51
24:BA:2219:G:H2'	24:BA:2224:G:H5'	1.92	0.51
24:BA:2443:C:O2'	24:BA:2444:G:H5'	2.09	0.51
27:BE:4:ILE:C	27:BE:5:LEU:HD23	2.35	0.51
28:BF:151:SER:C	28:BF:152:GLU:HG3	2.36	0.51
30:BH:12:PRO:O	30:BH:13:LYS:O	2.29	0.51
33:BN:10:VAL:HG21	33:BN:17:ARG:HA	1.92	0.51
34:BO:146:VAL:HG22	34:BO:147:LEU:N	2.18	0.51
35:BP:43:THR:HB	35:BP:45:GLN:HG2	1.92	0.51
35:BP:141:GLN:NE2	44:BV:73:GLN:C	2.68	0.51
41:BS:71:VAL:HG12	41:BS:71:VAL:O	2.10	0.51
44:BV:93:ASP:C	44:BV:95:PRO:HD2	2.35	0.51
49:B4:58:ARG:O	49:B4:62:ARG:HG2	2.09	0.51
1:CA:30:U:O2'	1:CA:31:G:OP1	2.24	0.51
1:CA:160:A:O2'	1:CA:344:A:N6	2.44	0.51
1:CA:191:G:C1'	20:CW:105:SER:HB3	2.39	0.51
1:CA:430:A:C2'	1:CA:431:A:H5'	2.40	0.51
1:CA:440:A:H3'	1:CA:442:C:C6	2.43	0.51
1:CA:452:A:H4'	16:CS:72:ARG:HH22	1.70	0.51
1:CA:1206:G:C6	1:CA:1207:G:C5	2.98	0.51
1:CA:1374:A:H2'	1:CA:1375:A:C5'	2.41	0.51
2:CE:134:GLU:HB3	2:CE:138:LEU:CD1	2.39	0.51
3:CF:124:ILE:C	3:CF:126:ARG:H	2.19	0.51
6:CI:101:ALA:HA	18:CU:28:GLU:OE1	2.10	0.51
7:CJ:15:ASP:CB	7:CJ:20:ASP:H	2.13	0.51
7:CJ:16:LEU:HD11	9:CL:45:ALA:HB2	1.92	0.51
8:CK:12:ARG:NH1	8:CK:27:PRO:HD2	2.25	0.51
11:CN:50:TYR:HH	11:CN:59:TYR:HE2	1.57	0.51
12:CO:23:LYS:O	12:CO:24:VAL:HG23	2.10	0.51
12:CO:126:LYS:HB2	12:CO:126:LYS:HZ2	1.73	0.51
20:CW:83:ARG:O	20:CW:86:ARG:HB3	2.10	0.51
24:DA:332:A:O2'	24:DA:334:C:OP2	2.19	0.51
24:DA:489:G:N2	24:DA:1321:A:OP1	2.43	0.51
24:DA:1162:G:H1'	40:D2:23:GLU:OE2	2.09	0.51
24:DA:1416:G:H2'	24:DA:1417:C:C6	2.45	0.51
24:DA:2151:G:H2'	24:DA:2152:G:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2426:A:O2'	24:DA:2427:C:OP1	2.25	0.51
24:DA:2468:G:O6	24:DA:2481:G:H2'	2.09	0.51
24:DA:2879:C:C4'	24:DA:2880:C:OP1	2.58	0.51
25:DB:12:C:H5"	25:DB:13:A:OP1	2.09	0.51
26:DD:30:GLU:HG3	26:DD:63:ARG:NH2	2.25	0.51
28:DF:65:TRP:HZ2	28:DF:72:ARG:NH2	2.08	0.51
31:DK:114:LEU:O	31:DK:115:ALA:HB3	2.09	0.51
32:DM:94:HIS:O	32:DM:95:PRO:O	2.27	0.51
32:DM:134:ARG:O	32:DM:136:GLU:N	2.43	0.51
35:DP:58:PHE:O	35:DP:59:ARG:C	2.53	0.51
39:D1:91:ASP:O	39:D1:92:ARG:C	2.53	0.51
41:DS:14:PRO:O	41:DS:17:VAL:N	2.42	0.51
43:DU:74:PRO:O	43:DU:80:GLY:HA2	2.10	0.51
43:DU:88:LYS:HA	43:DU:88:LYS:HZ2	1.72	0.51
44:DV:80:ARG:HH21	44:DV:82:ARG:HH12	1.58	0.51
44:DV:136:PHE:O	44:DV:137:ILE:HG23	2.10	0.51
44:DV:170:THR:O	44:DV:171:ILE:HB	2.10	0.51
51:D6:34:LEU:HD23	51:D6:36:LEU:HD22	1.92	0.51
1:AA:164:U:H2'	1:AA:165:C:C6	2.45	0.51
1:AA:620:C:O2'	1:AA:621:A:H5'	2.11	0.51
1:AA:960:U:O2	1:AA:960:U:H2'	2.10	0.51
1:AA:1035:A:H2'	1:AA:1036:G:C5'	2.41	0.51
2:AE:200:ILE:HG22	2:AE:202:PRO:HD3	1.91	0.51
3:AF:81:GLY:O	3:AF:82:GLU:HB3	2.10	0.51
6:AI:75:LEU:C	6:AI:75:LEU:HD23	2.36	0.51
6:AI:87:ARG:HG2	6:AI:87:ARG:HH11	1.75	0.51
7:AJ:131:LYS:HB2	7:AJ:131:LYS:NZ	2.26	0.51
8:AK:11:THR:HG22	8:AK:15:ASN:HD21	1.74	0.51
9:AL:27:THR:HB	9:AL:33:PHE:N	2.25	0.51
9:AL:63:ILE:N	9:AL:63:ILE:HD12	2.25	0.51
22:AC:15:G:H5"	22:AC:16:C:OP2	2.10	0.51
23:A1:4:A:HO2'	23:A1:5:A:P	2.32	0.51
24:BA:7:G:H2'	24:BA:8:A:O4'	2.11	0.51
24:BA:265:A:H2'	24:BA:266:G:OP2	2.11	0.51
24:BA:299:A:H5"	43:BU:84:ARG:NH1	2.25	0.51
24:BA:527:C:C6	24:BA:528:A:N6	2.78	0.51
24:BA:895:U:H2'	24:BA:896:A:OP1	2.10	0.51
24:BA:898:C:H2'	24:BA:899:A:O4'	2.10	0.51
24:BA:966:G:H2'	24:BA:967:C:C6	2.45	0.51
24:BA:1250:G:O2'	24:BA:1251:C:OP1	2.25	0.51
24:BA:1964:G:C4'	24:BA:1965:C:OP2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2103:C:H2'	24:BA:2104:G:H8	1.75	0.51
24:BA:2346:A:C2	24:BA:2383:G:C2	2.99	0.51
24:BA:2729:G:H2'	24:BA:2730:C:C6	2.46	0.51
24:BA:2873:A:N3	24:BA:2873:A:H2'	2.24	0.51
24:BA:2874:C:H2'	24:BA:2874:C:O2	2.10	0.51
26:BD:43:ARG:CD	26:BD:43:ARG:C	2.83	0.51
27:BE:93:VAL:C	27:BE:95:ILE:HD12	2.35	0.51
28:BF:132:VAL:CG2	28:BF:133:ASN:H	2.02	0.51
29:BG:129:GLY:O	29:BG:130:ASN:CG	2.53	0.51
30:BH:30:LYS:HD3	30:BH:136:ILE:HG13	1.93	0.51
34:BO:42:SER:O	34:BO:44:GLY:N	2.43	0.51
35:BP:141:GLN:HE21	44:BV:75:ASN:N	2.09	0.51
37:BQ:20:ARG:HG2	45:B3:49:LYS:HD2	1.93	0.51
38:BR:126:ALA:C	38:BR:128:GLU:H	2.18	0.51
39:B1:85:LYS:O	39:B1:87:GLY:N	2.44	0.51
43:BU:95:LYS:NZ	43:BU:100:ALA:HA	2.25	0.51
44:BV:23:LYS:HE2	44:BV:40:ASP:OD2	2.11	0.51
46:BZ:4:VAL:HG23	46:BZ:5:CYS:O	2.10	0.51
53:B8:32:LEU:HD23	53:B8:33:ASN:H	1.75	0.51
1:CA:177:C:H2'	1:CA:178:C:H6	1.76	0.51
1:CA:323:U:O5'	1:CA:323:U:H6	1.91	0.51
1:CA:406:G:C5'	4:CG:5:ILE:HD13	2.40	0.51
1:CA:422:C:O2'	1:CA:423:G:H5"	2.10	0.51
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.73	0.51
2:CE:92:TYR:CD1	2:CE:92:TYR:C	2.88	0.51
2:CE:170:GLU:HA	2:CE:172:ILE:CD1	2.41	0.51
3:CF:3:ASN:ND2	3:CF:4:LYS:NZ	2.58	0.51
3:CF:11:ARG:O	3:CF:13:GLY:N	2.43	0.51
3:CF:29:TYR:OH	14:CQ:54:PRO:HD2	2.09	0.51
3:CF:35:GLU:OE2	3:CF:95:THR:HG23	2.10	0.51
9:CL:88:TYR:O	9:CL:89:ASN:CB	2.59	0.51
16:CS:21:VAL:O	16:CS:33:ILE:HG12	2.11	0.51
19:CV:40:ILE:HG23	19:CV:67:VAL:O	2.10	0.51
21:CX:3:LYS:HB3	21:CX:14:TRP:CD1	2.46	0.51
24:DA:205:G:C2'	24:DA:206:U:OP2	2.57	0.51
24:DA:332:A:O2'	24:DA:333:G:P	2.68	0.51
24:DA:481:G:HO2'	24:DA:482:A:P	2.33	0.51
24:DA:807:U:O2'	24:DA:808:G:H5'	2.11	0.51
24:DA:1331:A:O2'	24:DA:1332:G:H8	1.92	0.51
24:DA:1543:A:HO2'	24:DA:1544:C:P	2.33	0.51
24:DA:1789:A:O2'	26:DD:219:PRO:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1928:A:O2'	24:DA:1929:G:H5'	2.10	0.51
24:DA:2026:C:H2'	24:DA:2027:G:O5'	2.10	0.51
24:DA:2869:G:O2'	36:D0:61:HIS:HE1	1.93	0.51
25:DB:40:U:C2'	25:DB:41:U:OP1	2.58	0.51
26:DD:35:LYS:HG2	26:DD:64:ILE:HG22	1.92	0.51
26:DD:67:PHE:CE1	26:DD:157:ARG:NH2	2.79	0.51
27:DE:20:ALA:C	27:DE:21:VAL:HG13	2.35	0.51
27:DE:51:PHE:CD1	27:DE:52:LEU:N	2.76	0.51
29:DG:97:ASP:O	29:DG:101:ILE:HG23	2.10	0.51
30:DH:41:MET:HE1	30:DH:64:LEU:HB3	1.91	0.51
31:DK:12:LEU:O	31:DK:13:GLY:O	2.28	0.51
32:DM:12:ARG:NH1	32:DM:50:ASP:OD2	2.41	0.51
33:DN:23:ARG:O	33:DN:39:ILE:HB	2.10	0.51
34:DO:112:LEU:HD11	34:DO:114:ILE:CG2	2.40	0.51
36:D0:56:LYS:C	36:D0:58:GLY:H	2.18	0.51
37:DQ:106:ARG:HA	37:DQ:110:LEU:CG	2.39	0.51
39:D1:8:VAL:O	39:D1:9:VAL:C	2.53	0.51
40:D2:2:PHE:CD1	40:D2:2:PHE:C	2.88	0.51
40:D2:14:VAL:HA	40:D2:18:LEU:HD12	1.93	0.51
50:D5:40:LYS:HD3	50:D5:46:CYS:SG	2.50	0.51
53:D8:29:LYS:HB2	53:D8:44:LYS:HG2	1.90	0.51
1:AA:230:G:H2'	1:AA:231:G:O4'	2.11	0.51
1:AA:687:A:HO2'	1:AA:688:G:P	2.34	0.51
1:AA:745:C:OP1	1:AA:851:G:O2'	2.28	0.51
1:AA:836:G:O2'	1:AA:837:G:H5'	2.11	0.51
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.45	0.51
2:AE:28:PHE:O	2:AE:29:ALA:O	2.28	0.51
3:AF:58:GLU:O	3:AF:64:VAL:HA	2.10	0.51
3:AF:195:VAL:HG12	3:AF:196:LEU:N	2.26	0.51
4:AG:158:ILE:O	4:AG:162:LEU:HB2	2.10	0.51
7:AJ:152:ALA:C	7:AJ:154:TYR:H	2.18	0.51
9:AL:28:VAL:HG13	9:AL:29:ASN:N	2.24	0.51
9:AL:49:PRO:O	9:AL:53:VAL:HG22	2.11	0.51
10:AM:22:LYS:CD	10:AM:26:ALA:HB2	2.40	0.51
11:AN:82:VAL:HB	11:AN:108:ILE:HG12	1.92	0.51
12:AO:74:GLY:O	12:AO:75:HIS:HB3	2.09	0.51
13:AP:40:ASN:HD22	13:AP:43:THR:CG2	2.05	0.51
24:BA:40:C:H2'	24:BA:41:C:H6	1.75	0.51
24:BA:876:C:H2'	24:BA:877:U:O4'	2.10	0.51
24:BA:1212:G:H2'	24:BA:1236:G:N2	2.23	0.51
24:BA:1409:C:O2'	24:BA:1410:G:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1567:A:H2	26:BD:28:GLU:HA	1.75	0.51
24:BA:1572:A:H2'	24:BA:1573:G:O4'	2.10	0.51
24:BA:1885:A:H3'	24:BA:1886:C:C6	2.39	0.51
24:BA:2257:U:H2'	24:BA:2258:C:C6	2.46	0.51
24:BA:2376:A:H2'	24:BA:2377:A:O4'	2.11	0.51
24:BA:2591:C:OP2	26:BD:238:GLY:O	2.27	0.51
24:BA:2635:C:H5'	27:BE:77:ILE:HG22	1.92	0.51
26:BD:9:TYR:CD2	26:BD:10:THR:HG22	2.46	0.51
28:BF:51:THR:CB	28:BF:88:VAL:HG11	2.40	0.51
34:BO:91:PHE:N	34:BO:91:PHE:CD1	2.78	0.51
40:B2:85:LYS:HG3	40:B2:87:HIS:CA	2.39	0.51
41:BS:70:TYR:O	41:BS:107:LEU:HD12	2.10	0.51
43:BU:28:LYS:O	43:BU:29:GLU:O	2.28	0.51
44:BV:26:GLY:HA2	44:BV:85:HIS:CD2	2.46	0.51
1:CA:32:A:OP2	1:CA:398:C:H1'	2.10	0.51
1:CA:38:G:C2	1:CA:397:A:H2	2.27	0.51
1:CA:88:C:H3'	1:CA:89:U:C5	2.45	0.51
1:CA:197:A:O2'	1:CA:198:G:C8	2.63	0.51
1:CA:428:G:H4'	1:CA:429:U:O5'	2.10	0.51
1:CA:453:A:C6	1:CA:454:C:N4	2.78	0.51
1:CA:602:A:H2'	1:CA:603:U:O4'	2.11	0.51
1:CA:827:U:C5'	1:CA:828:A:OP2	2.56	0.51
1:CA:1443:G:C3'	1:CA:1446:A:C5'	2.85	0.51
4:CG:83:SER:HA	4:CG:89:THR:HG23	1.92	0.51
6:CI:86:ARG:O	6:CI:87:ARG:CG	2.50	0.51
7:CJ:140:ASP:C	7:CJ:142:GLU:N	2.69	0.51
12:CO:24:VAL:O	12:CO:24:VAL:CG1	2.58	0.51
13:CP:4:ILE:HG22	13:CP:5:ALA:H	1.75	0.51
22:CD:15:G:H22	22:CD:59:A:H1'	1.74	0.51
22:CD:54:U:H3	22:CD:58:A:N6	2.00	0.51
24:DA:1065:U:H3'	24:DA:1066:U:C4'	2.41	0.51
24:DA:1213:A:N3	24:DA:1238:G:H1'	2.25	0.51
24:DA:1281:G:O2'	24:DA:1282:U:H5'	2.10	0.51
24:DA:1430:C:H2'	24:DA:1431:U:C6	2.46	0.51
24:DA:1504:C:H5'	24:DA:1505:C:OP2	2.10	0.51
24:DA:1932:A:H2'	24:DA:1933:G:O4'	2.10	0.51
24:DA:2126:A:C2	24:DA:2162:G:N2	2.78	0.51
24:DA:2712:U:O2	24:DA:2712:U:H5"	2.09	0.51
24:DA:2821:A:OP2	27:DE:110:GLY:HA3	2.10	0.51
26:DD:35:LYS:HD2	26:DD:104:TYR:CD1	2.45	0.51
31:DK:57:ARG:O	31:DK:61:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:67:ARG:O	31:DK:71:ILE:HG22	2.10	0.51
32:DM:120:LEU:CD1	32:DM:122:VAL:HG23	2.38	0.51
38:DR:16:ARG:HD3	38:DR:19:LEU:HG	1.92	0.51
39:D1:98:LEU:HD23	39:D1:98:LEU:C	2.35	0.51
44:DV:61:LEU:HB3	44:DV:62:PRO:CD	2.40	0.51
44:DV:131:ARG:C	44:DV:133:ILE:H	2.18	0.51
1:AA:3:G:C5'	1:AA:4:U:OP1	2.59	0.51
1:AA:186(D):C:H2'	1:AA:186(E):C:H6	1.75	0.51
1:AA:216:G:H2'	1:AA:217:C:H6	1.74	0.51
1:AA:923:A:H2'	1:AA:924:C:C6	2.46	0.51
1:AA:999:U:H2'	1:AA:1000:A:OP1	2.11	0.51
1:AA:1103:C:C4	1:AA:1104:G:N7	2.79	0.51
1:AA:1221:G:OP1	1:AA:1321:C:N4	2.44	0.51
1:AA:1322:C:O2	1:AA:1322:C:C2'	2.58	0.51
3:AF:138:VAL:CG2	3:AF:151:VAL:HG23	2.40	0.51
7:AJ:44:TYR:HA	7:AJ:47:CYS:SG	2.50	0.51
9:AL:2:GLU:CG	9:AL:3:GLN:H	2.23	0.51
9:AL:83:ARG:O	9:AL:86:VAL:HG12	2.11	0.51
12:AO:69:TYR:HB2	12:AO:96:VAL:HG11	1.91	0.51
17:AT:59:ILE:CD1	17:AT:73:VAL:HA	2.40	0.51
18:AU:74:ARG:O	18:AU:81:PHE:HE1	1.92	0.51
22:AC:23:C:H2'	22:AC:24:U:C6	2.45	0.51
24:BA:18:C:H2'	24:BA:19:C:H6	1.75	0.51
24:BA:635:C:O2'	24:BA:639:U:OP1	2.28	0.51
24:BA:671:C:H2'	24:BA:672:C:O5'	2.10	0.51
24:BA:693:C:O2'	24:BA:694:U:H5'	2.11	0.51
24:BA:823:G:H2'	24:BA:824:A:C8	2.45	0.51
24:BA:1024:G:OP2	24:BA:1025:G:H3'	2.11	0.51
24:BA:1161:C:H2'	24:BA:1162:G:H8	1.75	0.51
24:BA:1379:A:O2'	24:BA:1380:G:P	2.68	0.51
24:BA:1614:A:N1	41:BS:91:GLY:HA2	2.26	0.51
24:BA:1652:A:OP1	36:B0:8:ARG:NH1	2.44	0.51
24:BA:2012:G:O3'	41:BS:96:ILE:HG12	2.11	0.51
24:BA:2015:A:H5'	41:BS:92:ARG:NH2	2.24	0.51
24:BA:2127:G:C3'	24:BA:2128:C:H5"	2.39	0.51
24:BA:2262:U:H2'	24:BA:2263:C:H6	1.76	0.51
24:BA:2494:G:O2'	24:BA:2495:G:H5'	2.10	0.51
24:BA:2688:U:H3'	24:BA:2688:U:O2	2.09	0.51
24:BA:2788:C:OP1	27:BE:61:ARG:NH1	2.43	0.51
25:BB:55:U:O2'	25:BB:56:G:H5'	2.11	0.51
27:BE:16:ARG:HG3	27:BE:16:ARG:NH1	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:29:TRP:O	29:BG:31:VAL:N	2.43	0.51
30:BH:19:VAL:HG13	30:BH:43:VAL:HG22	1.92	0.51
30:BH:131:VAL:HG22	30:BH:132:ARG:N	2.24	0.51
35:BP:79:LEU:O	35:BP:80:GLU:OE2	2.28	0.51
35:BP:133:ARG:O	35:BP:134:ARG:HB2	2.09	0.51
37:BQ:106:ARG:CB	37:BQ:110:LEU:HD21	2.34	0.51
43:BU:14:LEU:CD2	43:BU:73:ARG:HB2	2.41	0.51
44:BV:10:ARG:NH1	44:BV:26:GLY:O	2.43	0.51
44:BV:52:SER:C	44:BV:54:HIS:H	2.18	0.51
44:BV:59:LEU:C	44:BV:60:GLU:HG2	2.35	0.51
47:BW:15:LYS:HA	47:BW:67:LYS:NZ	2.25	0.51
48:BX:52:HIS:H	48:BX:52:HIS:HD2	1.59	0.51
53:B8:14:VAL:CG1	53:B8:15:LYS:H	2.21	0.51
1:CA:199:G:O2'	1:CA:200:G:H5'	2.11	0.51
1:CA:627:G:O2'	1:CA:628:G:H5'	2.10	0.51
1:CA:984:C:H2'	1:CA:985:C:C6	2.46	0.51
1:CA:1022:G:H2'	1:CA:1023:G:C8	2.45	0.51
1:CA:1160:G:H2'	1:CA:1160:G:N3	2.25	0.51
1:CA:1268:A:H4'	21:CX:19:GLY:C	2.36	0.51
1:CA:1305:G:H5'	21:CX:4:GLY:HA3	1.92	0.51
3:CF:22:TRP:CH2	3:CF:32:LEU:HB2	2.45	0.51
4:CG:163:GLU:C	4:CG:165:MET:N	2.66	0.51
5:CH:10:MET:HE2	5:CH:13:ILE:CD1	2.41	0.51
6:CI:10:LEU:HD13	6:CI:61:LEU:HD13	1.93	0.51
8:CK:39:LEU:C	8:CK:45:ILE:HG12	2.35	0.51
11:CN:29:ILE:HG13	11:CN:44:SER:HB3	1.92	0.51
13:CP:65:LYS:HB3	49:D4:50:VAL:HG21	1.93	0.51
14:CQ:36:PHE:CD1	14:CQ:36:PHE:C	2.88	0.51
16:CS:13:HIS:C	16:CS:15:PRO:HD3	2.36	0.51
20:CW:28:ALA:C	20:CW:30:LYS:N	2.67	0.51
22:CC:19:G:C4	22:CC:57:A:C2	2.99	0.51
24:DA:592:G:N3	53:D8:4:MET:CE	2.74	0.51
24:DA:735:A:H3'	24:DA:736:C:H6	1.76	0.51
24:DA:1054:A:H2'	24:DA:1055:G:O4'	2.11	0.51
24:DA:1159:U:H2'	24:DA:1160:G:H8	1.73	0.51
24:DA:1537:C:H2'	24:DA:1538:G:O4'	2.11	0.51
24:DA:1565:C:O2'	24:DA:1566:A:O5'	2.28	0.51
24:DA:1728:G:H2'	24:DA:1731:G:O6	2.10	0.51
24:DA:1889:A:N1	24:DA:2234:G:H1'	2.26	0.51
24:DA:2211:G:H2'	24:DA:2211:G:N3	2.26	0.51
24:DA:2307:G:O2'	24:DA:2308:G:OP2	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DB:42:C:O3'	29:DG:67:LYS:HE3	2.11	0.51
25:DB:43:C:P	29:DG:67:LYS:HE3	2.50	0.51
26:DD:134:ARG:HB2	26:DD:135:PHE:HD2	1.75	0.51
26:DD:210:GLY:O	26:DD:213:ARG:N	2.43	0.51
26:DD:221:VAL:HG22	26:DD:226:MET:HE2	1.91	0.51
29:DG:37:VAL:HG22	29:DG:159:VAL:CA	2.34	0.51
29:DG:114:ILE:CG2	29:DG:115:ARG:N	2.73	0.51
31:DK:74:ASN:CG	31:DK:75:LEU:HD13	2.36	0.51
31:DK:129:THR:HA	31:DK:137:PRO:HA	1.93	0.51
34:DO:101:VAL:HA	34:DO:105:LEU:O	2.10	0.51
42:DT:5:TYR:CE2	47:DW:30:ARG:HG3	2.45	0.51
44:DV:48:PHE:CZ	44:DV:52:SER:HA	2.46	0.51
47:DW:15:LYS:H	47:DW:67:LYS:HE2	1.73	0.51
1:AA:303:A:H2'	1:AA:304:U:C6	2.46	0.51
1:AA:544:G:H2'	1:AA:545:C:H6	1.76	0.51
1:AA:691:G:O5'	1:AA:691:G:H8	1.94	0.51
1:AA:1121:U:O2'	1:AA:1122:U:H5'	2.10	0.51
1:AA:1125:U:OP2	1:AA:1145:C:N4	2.43	0.51
2:AE:82:ARG:HH11	2:AE:82:ARG:HG3	1.76	0.51
3:AF:58:GLU:O	3:AF:59:ARG:CG	2.59	0.51
3:AF:87:LEU:C	3:AF:89:GLU:H	2.19	0.51
5:AH:26:PHE:CZ	23:A1:25:A:N6	2.79	0.51
5:AH:59:GLY:O	5:AH:60:TYR:C	2.54	0.51
5:AH:155:GLU:HG2	5:AH:155:GLU:O	2.11	0.51
6:AI:22:GLU:OE1	6:AI:84:ASN:HB2	2.10	0.51
7:AJ:26:PHE:O	7:AJ:30:ILE:HG12	2.11	0.51
10:AM:82:ILE:O	10:AM:86:MET:HB2	2.10	0.51
12:AO:33:ARG:CG	12:AO:60:LEU:HD12	2.40	0.51
15:AR:55:GLY:HA2	15:AR:58:MET:CE	2.36	0.51
24:BA:414:C:H2'	24:BA:415:A:C8	2.46	0.51
24:BA:574:C:O2	27:BE:145:LYS:NZ	2.39	0.51
24:BA:865:C:H4'	24:BA:866:A:OP1	2.10	0.51
24:BA:1102:C:H2'	24:BA:1103:A:H5"	1.92	0.51
24:BA:1171:G:H1'	24:BA:1173:G:O4'	2.10	0.51
24:BA:1397:U:HO2'	24:BA:1398:C:P	2.32	0.51
24:BA:1754:C:H5'	38:BR:101:PHE:CE2	2.46	0.51
24:BA:1761:C:C4	24:BA:1762:A:C6	2.98	0.51
24:BA:1816:G:H8	26:BD:62:TYR:CZ	2.28	0.51
24:BA:1857:G:H2'	24:BA:1858:G:O4'	2.10	0.51
24:BA:2112:G:N2	24:BA:2169:A:N1	2.57	0.51
24:BA:2161:C:H2'	24:BA:2162:G:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2192:G:H2'	24:BA:2193:G:H5"	1.92	0.51
24:BA:2429:G:N7	34:BO:56:SER:OG	2.44	0.51
25:BB:65:C:N4	25:BB:108:C:H2'	2.24	0.51
27:BE:53:PRO:O	27:BE:54:GLN:C	2.54	0.51
27:BE:68:ALA:C	27:BE:70:ALA:N	2.68	0.51
27:BE:93:VAL:HG12	27:BE:93:VAL:O	2.11	0.51
28:BF:161:GLU:O	28:BF:165:ARG:N	2.37	0.51
30:BH:54:ARG:HB2	30:BH:55:PRO:HD2	1.93	0.51
31:BK:98:ALA:CA	31:BK:109:ILE:HD11	2.41	0.51
35:BP:36:ALA:HB2	35:BP:103:MET:HE2	1.91	0.51
37:BQ:27:SER:HA	37:BQ:88:ASP:CB	2.41	0.51
37:BQ:66:ALA:HA	37:BQ:69:VAL:HG12	1.92	0.51
38:BR:48:ILE:HG22	38:BR:49:VAL:N	2.25	0.51
43:BU:5:MET:HE1	43:BU:32:PRO:CB	2.41	0.51
47:BW:10:LEU:C	47:BW:12:GLU:N	2.65	0.51
49:B4:43:TYR:C	49:B4:43:TYR:CD1	2.88	0.51
53:B8:52:LYS:N	53:B8:53:PRO:HD2	2.26	0.51
1:CA:22:G:H2'	1:CA:23:C:C6	2.46	0.51
1:CA:55:A:N7	1:CA:357:G:N2	2.58	0.51
1:CA:60:A:O2'	1:CA:61:G:OP2	2.28	0.51
1:CA:191:G:O2'	20:CW:101:GLY:O	2.27	0.51
1:CA:260:G:H2'	1:CA:261:U:C6	2.46	0.51
1:CA:937:A:C2	1:CA:1379:G:C6	2.99	0.51
1:CA:1116:C:O2'	1:CA:1117:G:H5"	2.11	0.51
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.64	0.51
1:CA:1306:A:N6	1:CA:1331:G:O2'	2.44	0.51
4:CG:13:ARG:HD3	4:CG:38:TYR:O	2.10	0.51
4:CG:196:LEU:HD12	4:CG:196:LEU:H	1.75	0.51
7:CJ:108:ALA:C	7:CJ:110:GLN:H	2.19	0.51
10:CM:17:ASP:HA	10:CM:20:ALA:HB3	1.93	0.51
16:CS:20:VAL:HG23	16:CS:34:GLU:O	2.11	0.51
16:CS:72:ARG:HD3	16:CS:73:LEU:HD23	1.91	0.51
18:CU:43:PHE:C	18:CU:44:LEU:HD12	2.36	0.51
18:CU:64:ARG:O	18:CU:66:LEU:N	2.43	0.51
19:CV:69:HIS:HD1	49:D4:69:LYS:HE2	1.76	0.51
20:CW:89:ARG:HH22	20:CW:106:ALA:HB2	1.75	0.51
21:CX:6:ARG:HE	21:CX:15:ARG:NH2	2.08	0.51
24:DA:755:C:H2'	24:DA:756:C:C6	2.46	0.51
24:DA:1465:G:N2	24:DA:1466:G:H1'	2.26	0.51
24:DA:1607:C:H4'	24:DA:1608:A:O5'	2.11	0.51
24:DA:1647:G:O5'	24:DA:1648:C:OP1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1797:C:O2'	26:DD:259:THR:HB	2.10	0.51
24:DA:1930:G:N2	24:DA:1968:G:H2'	2.26	0.51
24:DA:2086:U:H2'	24:DA:2087:G:C8	2.45	0.51
24:DA:2600:A:C6	24:DA:2601:C:N4	2.79	0.51
24:DA:2619:C:O2'	24:DA:2620:C:H5'	2.10	0.51
27:DE:203:LYS:HE3	27:DE:204:ALA:CB	2.40	0.51
31:DK:4:ILE:N	31:DK:37:VAL:O	2.41	0.51
33:DN:4:PRO:O	33:DN:5:GLN:CB	2.58	0.51
34:DO:62:LEU:CD2	34:DO:62:LEU:H	2.19	0.51
34:DO:95:VAL:HG13	34:DO:100:LEU:CD2	2.41	0.51
49:D4:12:ALA:HB1	49:D4:30:GLU:H	1.76	0.51
49:D4:42:PHE:O	49:D4:44:THR:N	2.44	0.51
1:AA:181:G:HO2'	1:AA:182:U:P	2.34	0.51
1:AA:393:A:O2'	1:AA:394:G:H5'	2.10	0.51
1:AA:767:A:H2'	1:AA:768:A:O4'	2.10	0.51
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.76	0.51
1:AA:1346:A:H5'	9:AL:120:ARG:HH12	1.75	0.51
2:AE:100:GLY:O	2:AE:101:MET:C	2.53	0.51
3:AF:17:ASP:O	3:AF:18:TRP:O	2.29	0.51
3:AF:58:GLU:HB2	3:AF:65:ALA:HB3	1.93	0.51
3:AF:148:GLY:HA3	3:AF:172:ARG:O	2.11	0.51
4:AG:106:TYR:HE1	4:AG:112:VAL:O	1.94	0.51
5:AH:50:GLU:HB2	5:AH:53:LEU:HD12	1.92	0.51
8:AK:63:LEU:HD22	8:AK:63:LEU:N	2.26	0.51
9:AL:97:LYS:HB3	9:AL:98:PRO:HD3	1.92	0.51
12:AO:24:VAL:HG12	12:AO:27:LEU:HD23	1.93	0.51
18:AU:79:LEU:HB3	18:AU:80:PRO:CD	2.40	0.51
20:AW:67:ALA:O	20:AW:69:GLY:N	2.44	0.51
24:BA:78:A:H2'	24:BA:79:G:H8	1.74	0.51
24:BA:252:G:OP2	34:BO:50:ARG:NH2	2.32	0.51
24:BA:363(B):G:O2'	24:BA:363(C):G:H5'	2.11	0.51
24:BA:443:A:OP1	28:BF:46:ARG:HB2	2.10	0.51
24:BA:819:A:H2'	24:BA:820:A:H5'	1.93	0.51
24:BA:1005:C:C5	24:BA:1143:A:H1'	2.46	0.51
24:BA:1142(A):A:N7	24:BA:1144:G:C5	2.79	0.51
24:BA:1222:C:O2'	24:BA:1223:C:H5'	2.10	0.51
24:BA:2294:C:OP1	37:BQ:89:ARG:NH2	2.44	0.51
24:BA:2366:A:H2'	24:BA:2367:G:O4'	2.11	0.51
24:BA:2779:U:H1'	24:BA:2781:A:C5	2.46	0.51
25:BB:94:C:H2'	25:BB:95:U:O4'	2.11	0.51
28:BF:179:GLU:CD	28:BF:179:GLU:N	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:72:ARG:HD3	29:BG:86:MET:O	2.11	0.51
31:BK:9:LEU:HD23	31:BK:9:LEU:N	2.26	0.51
36:B0:97:VAL:HA	36:B0:113:LEU:O	2.11	0.51
38:BR:94:ALA:C	38:BR:96:ARG:H	2.19	0.51
39:B1:90:VAL:O	39:B1:91:ASP:C	2.53	0.51
47:BW:64:LEU:HD23	47:BW:64:LEU:C	2.36	0.51
47:BW:70:GLN:O	47:BW:71:ASN:C	2.54	0.51
53:B8:33:ASN:H	53:B8:36:LYS:CE	2.11	0.51
53:B8:52:LYS:N	53:B8:52:LYS:CD	2.74	0.51
53:B8:52:LYS:CD	53:B8:52:LYS:H	2.24	0.51
1:CA:181:G:O2'	1:CA:182:U:C6	2.64	0.51
1:CA:703:G:O2'	1:CA:704:A:OP2	2.28	0.51
1:CA:958:A:C8	19:CV:55:LYS:HD2	2.46	0.51
1:CA:1019:C:H2'	1:CA:1020:U:O4'	2.11	0.51
3:CF:21:ARG:N	3:CF:21:ARG:CD	2.74	0.51
3:CF:87:LEU:C	3:CF:89:GLU:H	2.19	0.51
4:CG:135:LEU:C	4:CG:137:SER:H	2.18	0.51
6:CI:75:LEU:HD23	6:CI:79:LEU:HG	1.91	0.51
19:CV:41:VAL:CG1	19:CV:45:VAL:N	2.74	0.51
22:CD:20:U:C2'	22:CD:21:A:H5"	2.39	0.51
23:C1:21:A:H8	23:C1:21:A:O5'	1.93	0.51
24:DA:529:A:N1	24:DA:2041:U:N3	2.53	0.51
24:DA:805:G:C4'	24:DA:806:C:OP2	2.58	0.51
24:DA:886:C:H2'	24:DA:887:A:O4'	2.10	0.51
24:DA:1317:A:H2'	24:DA:1318:C:H6	1.75	0.51
24:DA:1588:C:H2'	24:DA:1589:C:C6	2.44	0.51
24:DA:1668:A:H2'	24:DA:1674:G:N7	2.26	0.51
24:DA:1799:G:HO2'	24:DA:1800:C:P	2.33	0.51
24:DA:2124:G:H2'	24:DA:2125:G:O4'	2.11	0.51
24:DA:2302:G:C6	24:DA:2303:G:C5	2.99	0.51
24:DA:2503:A:H3'	24:DA:2503:A:OP2	2.11	0.51
24:DA:2732:G:H3'	24:DA:2733:A:H5'	1.91	0.51
24:DA:2842:G:C2'	24:DA:2843:G:H5'	2.40	0.51
25:DB:48:A:H4'	37:DQ:95:HIS:HD2	1.76	0.51
26:DD:10:THR:HG23	26:DD:13:ARG:CB	2.34	0.51
27:DE:95:ILE:H	27:DE:95:ILE:CD1	2.19	0.51
29:DG:121:ASN:HD22	29:DG:122:PRO:CD	2.23	0.51
30:DH:55:PRO:HG2	30:DH:61:HIS:ND1	2.26	0.51
31:DK:14:ASP:O	31:DK:16:GLY:N	2.44	0.51
32:DM:57:ALA:O	32:DM:58:ASP:HB3	2.09	0.51
32:DM:131:GLN:HE21	32:DM:132:ALA:H	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DN:24:VAL:HG21	33:DN:32:TYR:O	2.10	0.51
36:D0:118:GLU:HG3	36:D0:118:GLU:OXT	2.11	0.51
42:DT:36:LYS:HA	42:DT:39:ILE:HD12	1.91	0.51
42:DT:65:ARG:H	42:DT:65:ARG:CD	2.23	0.51
44:DV:134:PRO:C	44:DV:136:PHE:N	2.64	0.51
53:D8:40:GLU:C	53:D8:42:ARG:N	2.68	0.51
22:CB:39:A:H2'	22:CB:40:C:O4'	2.11	0.51
1:AA:437:U:H5'	4:AG:155:LEU:HD21	1.92	0.51
1:AA:712:A:H2'	1:AA:713:G:O4'	2.11	0.51
1:AA:1031:G:OP1	1:AA:1031:G:C8	2.64	0.51
1:AA:1162:C:C2	1:AA:1175:G:N2	2.78	0.51
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.46	0.51
2:AE:22:LYS:O	2:AE:23:ARG:C	2.54	0.51
3:AF:50:ALA:HB2	3:AF:75:VAL:CG2	2.41	0.51
4:AG:22:LYS:CB	4:AG:26:CYS:HB2	2.41	0.51
4:AG:194:LEU:N	4:AG:194:LEU:HD22	2.26	0.51
5:AH:101:ILE:O	5:AH:101:ILE:HG12	2.11	0.51
9:AL:128:ARG:HH11	9:AL:128:ARG:HG2	1.75	0.51
19:AV:19:VAL:HG12	19:AV:44:MET:HE1	1.93	0.51
20:AW:67:ALA:C	20:AW:69:GLY:N	2.69	0.51
20:AW:101:GLY:O	20:AW:103:GLY:N	2.43	0.51
22:AD:5:G:C2'	22:AD:6:G:H5'	2.39	0.51
24:BA:372:G:H2'	24:BA:400:G:O6	2.11	0.51
24:BA:812:C:C2	24:BA:813:U:C5	2.98	0.51
24:BA:857:C:H1'	45:B3:26:TYR:HE2	1.75	0.51
24:BA:1008:C:H5"	24:BA:1009:A:OP1	2.11	0.51
24:BA:1063:G:H2'	24:BA:1064:C:O4'	2.10	0.51
24:BA:1164:G:H2'	24:BA:1165:U:H6	1.74	0.51
24:BA:1365:A:N6	24:BA:1366:A:C6	2.78	0.51
24:BA:1533:C:H3'	24:BA:1534:G:O4'	2.10	0.51
24:BA:2286:A:O2'	51:B6:37:ARG:NH2	2.44	0.51
24:BA:2291:U:O2'	24:BA:2374:C:H1'	2.11	0.51
24:BA:2759:G:C2'	24:BA:2760:C:H5'	2.41	0.51
26:BD:142:VAL:CG2	26:BD:143:HIS:N	2.74	0.51
29:BG:62:LEU:HG	49:B4:27:THR:HG21	1.93	0.51
29:BG:75:LYS:O	29:BG:76:SER:HB2	2.11	0.51
31:BK:15:VAL:HG12	31:BK:16:GLY:H	1.75	0.51
34:BO:9:ASN:HB2	34:BO:10:PRO:HD2	1.92	0.51
35:BP:79:LEU:C	35:BP:80:GLU:CD	2.78	0.51
35:BP:141:GLN:NE2	44:BV:75:ASN:N	2.59	0.51
37:BQ:20:ARG:C	37:BQ:22:GLY:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:B2:1:MET:SD	40:B2:42:GLY:HA3	2.50	0.51
40:B2:44:LYS:C	40:B2:46:VAL:N	2.68	0.51
43:BU:95:LYS:NZ	43:BU:96:ILE:N	2.58	0.51
51:B6:9:LEU:HD13	51:B6:9:LEU:C	2.36	0.51
1:CA:531:U:H5"	1:CA:532:A:OP1	2.10	0.51
1:CA:701:C:C2'	1:CA:702:A:OP2	2.59	0.51
1:CA:1239:A:N6	1:CA:1299:A:H62	2.09	0.51
1:CA:1318:A:C5'	19:CV:11:VAL:HG11	2.41	0.51
1:CA:1324:A:C4'	1:CA:1362:C:H4'	2.41	0.51
1:CA:1405:G:O2'	1:CA:1519:A:H5'	2.11	0.51
1:CA:1534:A:C2'	1:CA:1535:C:C5	2.94	0.51
3:CF:70:VAL:CG1	3:CF:71:ALA:N	2.73	0.51
5:CH:96:PRO:HA	5:CH:117:ASP:CG	2.35	0.51
9:CL:28:VAL:O	9:CL:29:ASN:C	2.53	0.51
9:CL:83:ARG:C	9:CL:86:VAL:HG12	2.36	0.51
16:CS:30:GLY:O	16:CS:31:LYS:C	2.54	0.51
23:C1:10:G:H2'	23:C1:11:U:O5'	2.10	0.51
24:DA:153:C:OP2	46:DZ:88:LYS:HE2	2.11	0.51
24:DA:616:A:C4	28:DF:180:GLY:HA2	2.46	0.51
24:DA:788:A:O2'	24:DA:789:A:OP2	2.22	0.51
24:DA:1042:G:H2'	24:DA:1043:C:C6	2.46	0.51
24:DA:1496:A:C8	24:DA:1577:C:O2'	2.47	0.51
24:DA:2219:G:H2'	24:DA:2224:G:H5'	1.92	0.51
26:DD:117:VAL:CG2	26:DD:128:GLY:C	2.84	0.51
35:DP:25:ASP:HA	35:DP:100:GLY:O	2.11	0.51
35:DP:133:ARG:HG2	35:DP:134:ARG:N	2.26	0.51
37:DQ:83:LYS:HG2	37:DQ:109:GLY:H	1.76	0.51
38:DR:14:TYR:N	38:DR:14:TYR:CD1	2.77	0.51
44:DV:124:ILE:HD11	44:DV:165:VAL:CG2	2.41	0.51
49:D4:54:GLY:HA2	49:D4:57:GLU:HG2	1.92	0.51
50:D5:54:GLY:O	50:D5:55:ARG:C	2.54	0.51
51:D6:20:ASN:O	51:D6:21:TYR:CB	2.59	0.51
1:AA:201:C:C2	1:AA:209:U:H6	2.28	0.51
1:AA:358:U:H2'	1:AA:359:U:H6	1.76	0.51
1:AA:1475:G:OP1	24:BA:1689:A:H1'	2.10	0.51
3:AF:76:VAL:HG13	3:AF:84:ILE:CD1	2.39	0.51
7:AJ:3:ARG:O	7:AJ:5:ARG:N	2.43	0.51
8:AK:6:ILE:HB	8:AK:85:ARG:NH1	2.26	0.51
10:AM:22:LYS:O	10:AM:26:ALA:N	2.44	0.51
10:AM:54:PHE:O	10:AM:55:LYS:HG3	2.10	0.51
12:AO:126:LYS:O	12:AO:127:GLU:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:81:LEU:HD22	13:AP:88:ARG:C	2.36	0.51
14:AQ:15:LYS:HG3	14:AQ:16:PHE:CD2	2.45	0.51
24:BA:448:U:C4	24:BA:583:G:H1'	2.45	0.51
24:BA:1016:G:H2'	24:BA:1017:G:O4'	2.10	0.51
24:BA:1142(A):A:N7	24:BA:1144:G:N7	2.59	0.51
24:BA:1180:C:H5'	24:BA:1180:C:H6	1.75	0.51
24:BA:1199:U:H2'	24:BA:1200:C:C6	2.45	0.51
24:BA:1512:G:H2'	24:BA:1513:C:C6	2.46	0.51
24:BA:1728:G:H5"	24:BA:1728:G:N3	2.26	0.51
24:BA:2339:G:H2'	24:BA:2340:G:H8	1.76	0.51
24:BA:2564:A:C2	24:BA:2647:U:H4'	2.46	0.51
26:BD:239:ARG:HH21	26:BD:239:ARG:HG3	1.76	0.51
27:BE:34:VAL:CG2	27:BE:78:LEU:HD13	2.39	0.51
28:BF:20:LEU:HB3	28:BF:199:TRP:CH2	2.41	0.51
28:BF:65:TRP:CZ3	28:BF:75:HIS:HD2	2.29	0.51
29:BG:83:ARG:CB	29:BG:86:MET:HE3	2.41	0.51
29:BG:120:LEU:N	29:BG:179:PRO:O	2.44	0.51
30:BH:153:LYS:O	30:BH:155:SER:N	2.44	0.51
31:BK:86:THR:HA	31:BK:123:LEU:HG	1.93	0.51
34:BO:48:PRO:O	34:BO:49:ARG:C	2.54	0.51
34:BO:105:LEU:HD12	34:BO:105:LEU:N	2.25	0.51
37:BQ:3:ARG:HH12	45:B3:74:ARG:HH22	1.59	0.51
39:B1:58:ARG:HA	39:B1:61:TRP:CE3	2.45	0.51
41:BS:73:ALA:O	41:BS:106:ILE:HG12	2.11	0.51
42:BT:63:LYS:HA	42:BT:72:LYS:HA	1.93	0.51
46:BZ:23:LYS:HE3	46:BZ:28:GLY:HA3	1.92	0.51
50:B5:55:ARG:HB2	50:B5:55:ARG:NH1	2.26	0.51
50:B5:60:VAL:HG23	50:B5:60:VAL:OXT	2.09	0.51
1:CA:376:G:H5"	16:CS:5:ARG:CD	2.36	0.51
1:CA:456:C:O2'	1:CA:457:C:H5'	2.10	0.51
1:CA:518:C:O2'	1:CA:519:C:OP2	2.22	0.51
1:CA:959:A:H2	1:CA:1221:G:N3	2.09	0.51
1:CA:1032:A:H3'	1:CA:1032(A):G:C5'	2.41	0.51
1:CA:1210:C:H5'	1:CA:1214:C:N4	2.26	0.51
1:CA:1282:C:H2'	1:CA:1283:G:O4'	2.11	0.51
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.76	0.51
2:CE:187:LEU:HD13	2:CE:187:LEU:O	2.11	0.51
3:CF:150:LYS:HG3	3:CF:169:ALA:HB2	1.92	0.51
6:CI:22:GLU:CD	6:CI:82:ARG:HH21	2.18	0.51
8:CK:104:ARG:HD2	8:CK:138:TRP:CD2	2.46	0.51
16:CS:39:TYR:OH	16:CS:41:PRO:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CX:10:ARG:HH11	21:CX:10:ARG:HG3	1.76	0.51
24:DA:662:G:H5'	34:DO:15:ARG:HA	1.92	0.51
24:DA:715:G:H2'	24:DA:716:A:C8	2.45	0.51
24:DA:1165:U:C2	24:DA:1166:C:C5	2.98	0.51
24:DA:1278:A:O3'	36:D0:34:ILE:HG23	2.11	0.51
24:DA:1436:G:H1'	24:DA:1477:A:O2'	2.11	0.51
24:DA:2030:A:H5"	24:DA:2031:A:OP1	2.11	0.51
24:DA:2311:A:O2'	24:DA:2312:U:C5'	2.59	0.51
25:DB:34:U:H5"	25:DB:35:U:OP1	2.11	0.51
26:DD:28:GLU:OE1	26:DD:29:PRO:HD2	2.11	0.51
26:DD:205:VAL:O	26:DD:206:LEU:C	2.52	0.51
27:DE:105:THR:HG23	27:DE:166:THR:OG1	2.10	0.51
27:DE:116:VAL:HG22	27:DE:122:PHE:HB2	1.91	0.51
30:DH:4:ILE:O	30:DH:6:ARG:N	2.43	0.51
30:DH:19:VAL:HG13	30:DH:43:VAL:CG2	2.41	0.51
30:DH:72:ILE:O	30:DH:75:ALA:HB3	2.11	0.51
32:DM:78:TYR:N	32:DM:78:TYR:HD1	2.07	0.51
32:DM:118:LYS:O	32:DM:120:LEU:N	2.43	0.51
33:DN:24:VAL:O	33:DN:24:VAL:HG13	2.11	0.51
33:DN:113:LYS:O	33:DN:116:SER:HB3	2.11	0.51
34:DO:12:ALA:C	34:DO:14:LYS:H	2.17	0.51
34:DO:49:ARG:HE	53:D8:59:LYS:HG2	1.76	0.51
36:D0:92:GLY:N	36:D0:94:TYR:HE2	2.09	0.51
38:DR:14:TYR:HD1	38:DR:14:TYR:H	1.56	0.51
40:D2:41:GLY:N	40:D2:46:VAL:HG13	2.26	0.51
42:DT:47:PHE:N	42:DT:47:PHE:CD1	2.78	0.51
48:DX:7:LYS:HE2	48:DX:32:GLN:NE2	2.25	0.51
50:D5:20:ARG:C	50:D5:22:HIS:N	2.68	0.51
50:D5:36:CYS:C	50:D5:38:ALA:H	2.19	0.51
50:D5:56:LYS:HD2	50:D5:56:LYS:N	2.13	0.51
1:AA:188:U:O2'	1:AA:189:U:C5'	2.53	0.51
1:AA:483:C:O5'	1:AA:483:C:H6	1.94	0.51
1:AA:533:A:O2'	1:AA:534:U:OP1	2.26	0.51
1:AA:848:C:H2'	1:AA:849:C:H6	1.76	0.51
1:AA:1053:G:N7	1:AA:1199:U:H2'	2.26	0.51
1:AA:1181:G:C2	1:AA:1182:G:N2	2.79	0.51
2:AE:11:LEU:HD13	2:AE:11:LEU:N	2.18	0.51
2:AE:92:TYR:C	2:AE:92:TYR:HD2	2.18	0.51
2:AE:114:ARG:O	2:AE:118:LEU:HG	2.10	0.51
2:AE:200:ILE:HD12	2:AE:200:ILE:N	2.26	0.51
4:AG:34:GLU:O	4:AG:35:ARG:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AH:114:GLY:O	5:AH:115:VAL:O	2.28	0.51
10:AM:47:PHE:HB2	14:AQ:34:TYR:HE2	1.76	0.51
11:AN:50:TYR:CD1	11:AN:60:ALA:HB2	2.46	0.51
13:AP:19:LEU:O	13:AP:20:THR:C	2.53	0.51
15:AR:15:PHE:O	15:AR:27:VAL:HG23	2.11	0.51
22:AC:22:G:O2'	22:AC:23:C:H5'	2.10	0.51
24:BA:128:C:C2'	24:BA:129:C:O5'	2.59	0.51
24:BA:153:C:P	46:BZ:88:LYS:HZ2	2.34	0.51
24:BA:1280:G:C3'	24:BA:1281:G:C5'	2.89	0.51
24:BA:1815:A:P	26:BD:54:ARG:HH22	2.34	0.51
24:BA:1928:A:O2'	24:BA:1929:G:H5'	2.11	0.51
24:BA:2192:G:H2'	24:BA:2193:G:C5'	2.41	0.51
25:BB:43:C:H5'	49:B4:1:MET:H3	1.74	0.51
29:BG:111:LEU:HB2	29:BG:112:PRO:CD	2.33	0.51
31:BK:51:ILE:C	31:BK:53:ALA:N	2.69	0.51
32:BM:75:TYR:CZ	32:BM:77:GLY:HA2	2.45	0.51
33:BN:69:ILE:HD12	33:BN:69:ILE:N	2.26	0.51
35:BP:2:LEU:H	35:BP:2:LEU:CD1	2.23	0.51
35:BP:110:THR:C	35:BP:112:GLU:N	2.66	0.51
39:B1:74:LEU:HD12	39:B1:74:LEU:N	2.26	0.51
42:BT:50:LYS:HB2	42:BT:84:ALA:CB	2.41	0.51
43:BU:12:THR:HA	43:BU:26:LYS:HA	1.93	0.51
44:BV:105:VAL:O	44:BV:139:VAL:HG12	2.11	0.51
44:BV:159:PRO:O	44:BV:160:GLY:C	2.54	0.51
45:B3:83:PRO:O	45:B3:85:ALA:N	2.44	0.51
47:BW:25:VAL:HG23	47:BW:26:ARG:N	2.26	0.51
49:B4:6:HIS:CB	49:B4:7:PRO:CA	2.79	0.51
49:B4:10:VAL:CB	49:B4:11:PRO:HD3	2.14	0.51
49:B4:38:LYS:HG3	49:B4:38:LYS:O	2.10	0.51
1:CA:41:G:H2'	1:CA:42:G:C8	2.42	0.51
1:CA:545:C:OP2	4:CG:62:GLN:NE2	2.43	0.51
1:CA:794:A:C8	1:CA:794:A:C4'	2.94	0.51
1:CA:794:A:H2'	1:CA:795:C:C6	2.45	0.51
1:CA:1026:G:C6	1:CA:1036:G:N2	2.79	0.51
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.41	0.51
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.11	0.51
1:CA:1124:G:C5'	1:CA:1145:C:H41	2.23	0.51
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.12	0.51
2:CE:15:VAL:H	2:CE:16:HIS:HD1	1.59	0.51
2:CE:178:ARG:NH2	8:CK:74:PRO:HB3	2.18	0.51
3:CF:87:LEU:C	3:CF:89:GLU:N	2.65	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:108:LEU:HD11	4:CG:174:LEU:CD2	2.37	0.51
4:CG:178:VAL:O	4:CG:180:GLY:N	2.44	0.51
4:CG:206:PHE:CD2	4:CG:207:TYR:CD1	2.99	0.51
5:CH:126:ARG:HG3	5:CH:126:ARG:NH1	2.19	0.51
16:CS:1:MET:O	16:CS:3:LYS:HG3	2.11	0.51
21:CX:14:TRP:CE3	21:CX:15:ARG:HD3	2.46	0.51
23:C1:13:A:H4'	23:C1:14:A:OP1	2.11	0.51
24:DA:229:A:N6	24:DA:418:G:O5'	2.43	0.51
24:DA:309:G:O2'	24:DA:329:G:C8	2.63	0.51
24:DA:375:C:H2'	24:DA:376:C:C6	2.46	0.51
24:DA:454:A:H4'	24:DA:455:C:OP2	2.10	0.51
24:DA:608:A:H2'	24:DA:609:A:O4'	2.11	0.51
24:DA:844:C:H2'	24:DA:845:G:O4'	2.11	0.51
24:DA:1057:A:C2'	24:DA:1058:U:H5'	2.40	0.51
24:DA:1582:C:C2	24:DA:1583:A:C8	2.99	0.51
24:DA:1929:G:O5'	24:DA:1929:G:H8	1.88	0.51
24:DA:2341:G:H2'	24:DA:2342:C:H6	1.73	0.51
27:DE:37:ARG:HE	27:DE:37:ARG:N	2.09	0.51
27:DE:54:GLN:NE2	27:DE:54:GLN:H	2.08	0.51
29:DG:51:ARG:HH11	29:DG:51:ARG:HB3	1.76	0.51
29:DG:109:VAL:O	29:DG:113:ARG:HG3	2.10	0.51
31:DK:71:ILE:O	31:DK:72:LEU:HB2	2.10	0.51
31:DK:130:TYR:HB3	31:DK:136:VAL:HG13	1.93	0.51
32:DM:26:LEU:HG	32:DM:30:ILE:HD11	1.93	0.51
32:DM:108:PRO:O	32:DM:113:GLY:HA3	2.10	0.51
33:DN:23:ARG:HH11	33:DN:23:ARG:HG2	1.76	0.51
35:DP:7:MET:HE1	35:DP:73:PRO:HG3	1.91	0.51
37:DQ:74:ALA:O	37:DQ:75:GLU:C	2.54	0.51
37:DQ:87:PHE:O	37:DQ:88:ASP:O	2.29	0.51
38:DR:20:PRO:HD2	38:DR:86:ILE:HG23	1.92	0.51
38:DR:51:ARG:HG3	38:DR:98:LYS:HG3	1.93	0.51
38:DR:57:PHE:CG	38:DR:58:ASN:N	2.79	0.51
41:DS:48:ALA:O	41:DS:49:LYS:C	2.53	0.51
41:DS:70:TYR:HD2	41:DS:70:TYR:N	2.06	0.51
43:DU:95:LYS:O	43:DU:96:ILE:O	2.28	0.51
1:AA:88:C:O2'	1:AA:89:U:H5'	2.11	0.50
1:AA:428:G:O2'	1:AA:429:U:OP2	2.26	0.50
1:AA:823:G:H2'	1:AA:824:C:H6	1.75	0.50
1:AA:1067:A:O2'	1:AA:1068:G:O5'	2.28	0.50
1:AA:1123:A:H1'	10:AM:37:PRO:O	2.12	0.50
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.11	0.50
2:AE:82:ARG:HA	2:AE:92:TYR:HE1	1.71	0.50
2:AE:162:ILE:O	2:AE:185:ILE:HG12	2.11	0.50
3:AF:67:THR:O	3:AF:69:HIS:CE1	2.64	0.50
3:AF:135:LYS:O	3:AF:139:GLN:HB2	2.11	0.50
3:AF:173:VAL:N	3:AF:174:PRO:HD3	2.26	0.50
10:AM:53:PRO:HA	14:AQ:42:ILE:HD12	1.91	0.50
13:AP:28:ALA:O	13:AP:30:ALA:N	2.44	0.50
13:AP:67:GLU:C	13:AP:69:GLU:N	2.67	0.50
24:BA:75:G:H4'	47:BW:55:ARG:HH21	1.76	0.50
24:BA:686:G:N7	52:B7:5:TRP:CH2	2.80	0.50
24:BA:704:G:H2'	24:BA:726:G:N2	2.23	0.50
24:BA:1312:U:C3'	42:BT:63:LYS:NZ	2.74	0.50
24:BA:1757:U:O2	24:BA:1762:A:N1	2.44	0.50
24:BA:2035:G:H5"	24:BA:2036:C:OP2	2.11	0.50
24:BA:2522:U:C2'	24:BA:2523:G:H5"	2.39	0.50
24:BA:2531:A:H4'	30:BH:157:TYR:CD2	2.46	0.50
25:BB:42:C:H4'	29:BG:67:LYS:O	2.10	0.50
26:BD:135:PHE:CD2	26:BD:135:PHE:N	2.77	0.50
30:BH:102:ALA:HA	30:BH:117:PRO:HD3	1.92	0.50
30:BH:137:ASP:OD2	30:BH:140:LYS:HG3	2.11	0.50
32:BM:134:ARG:N	32:BM:135:PRO:CD	2.75	0.50
34:BO:23:PRO:O	34:BO:24:GLY:C	2.52	0.50
37:BQ:34:HIS:NE2	37:BQ:54:LEU:HD23	2.26	0.50
37:BQ:106:ARG:HB2	37:BQ:106:ARG:NH1	2.16	0.50
40:B2:5:VAL:HG22	40:B2:6:LYS:N	2.26	0.50
41:BS:35:ILE:HG23	50:B5:28:PRO:HD2	1.93	0.50
44:BV:120:ILE:HG23	44:BV:121:HIS:H	1.75	0.50
49:B4:14:ILE:HG12	49:B4:15:ILE:N	2.25	0.50
1:CA:73:G:H2'	1:CA:74:C:C6	2.46	0.50
1:CA:105:G:H2'	1:CA:106:C:H6	1.76	0.50
1:CA:264:U:O2'	17:CT:64:PRO:HD2	2.10	0.50
1:CA:659:U:OP1	15:CR:9:GLN:NE2	2.44	0.50
1:CA:812:C:O2'	1:CA:813:U:P	2.69	0.50
1:CA:1127:G:H21	1:CA:1147:C:H41	1.58	0.50
1:CA:1363:A:C4'	1:CA:1364:U:OP1	2.59	0.50
2:CE:53:ARG:HA	2:CE:56:ARG:HG3	1.93	0.50
3:CF:99:VAL:HG23	3:CF:99:VAL:O	2.11	0.50
3:CF:139:GLN:O	3:CF:143:GLU:HB2	2.11	0.50
4:CG:112:VAL:HG12	4:CG:116:GLN:OE1	2.11	0.50
8:CK:102:ARG:NH1	8:CK:105:ARG:HH12	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:40:LEU:C	9:CL:42:ARG:H	2.18	0.50
12:CO:126:LYS:C	12:CO:128:ALA:N	2.69	0.50
13:CP:66:LEU:O	13:CP:70:LEU:HB2	2.11	0.50
15:CR:16:ALA:HB1	15:CR:21:ASP:HB3	1.92	0.50
22:CC:63:G:H2'	22:CC:64:G:H8	1.77	0.50
24:DA:523:C:O2	24:DA:553:U:O2'	2.29	0.50
24:DA:528:A:H2'	24:DA:529:A:H5'	1.93	0.50
24:DA:614:U:O4	28:DF:175:THR:HG22	2.11	0.50
24:DA:626:U:H5'	24:DA:627:A:C5'	2.40	0.50
24:DA:848:G:H2'	24:DA:849:A:C8	2.45	0.50
24:DA:910:A:C5	35:DP:13:GLN:HG3	2.46	0.50
24:DA:1113:U:OP1	30:DH:2:SER:N	2.44	0.50
24:DA:1464:C:O2'	24:DA:1528:A:C8	2.63	0.50
24:DA:2656:U:H3'	24:DA:2656:U:C6	2.45	0.50
24:DA:2674:G:H2'	24:DA:2675:A:C8	2.46	0.50
25:DB:24:G:O6	25:DB:56:G:H2'	2.11	0.50
25:DB:87:G:H8	25:DB:87:G:O5'	1.94	0.50
28:DF:108:LYS:HA	28:DF:108:LYS:NZ	2.27	0.50
32:DM:16:ILE:HG22	32:DM:17:ASP:N	2.26	0.50
33:DN:15:GLY:O	33:DN:46:ALA:HB1	2.10	0.50
43:DU:75:ILE:CG1	43:DU:76:CYS:N	2.73	0.50
44:DV:116:VAL:O	44:DV:116:VAL:HG23	2.11	0.50
46:DZ:85:LEU:HA	46:DZ:87:PRO:HD2	1.91	0.50
48:DX:49:LYS:O	48:DX:49:LYS:HG2	2.10	0.50
48:DX:56:VAL:CG1	48:DX:57:GLU:N	2.74	0.50
52:D7:36:GLN:HG2	52:D7:36:GLN:O	2.09	0.50
22:CB:27:G:H2'	22:CB:28:U:C6	2.45	0.50
1:AA:35:G:H2'	1:AA:36:C:C6	2.47	0.50
1:AA:521:G:OP1	12:AO:73:GLU:HA	2.10	0.50
1:AA:552:U:O2'	12:AO:86:ARG:O	2.25	0.50
2:AE:15:VAL:HG21	2:AE:209:ARG:O	2.11	0.50
2:AE:114:ARG:HH11	2:AE:118:LEU:HD21	1.75	0.50
2:AE:229:VAL:O	2:AE:229:VAL:HG22	2.11	0.50
3:AF:34:LEU:HD12	3:AF:34:LEU:O	2.11	0.50
4:AG:170:VAL:O	4:AG:171:GLY:O	2.29	0.50
5:AH:79:GLU:HB3	5:AH:92:LYS:HA	1.91	0.50
6:AI:48:LEU:HD13	6:AI:52:ILE:HG13	1.92	0.50
9:AL:37:PHE:HE2	9:AL:70:LYS:HG3	1.75	0.50
10:AM:90:LEU:N	10:AM:91:PRO:CD	2.74	0.50
11:AN:84:VAL:HG11	11:AN:95:ILE:HD11	1.94	0.50
13:AP:16:ASP:OD2	13:AP:17:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AT:19:VAL:HG23	17:AT:44:ALA:HB3	1.92	0.50
17:AT:58:GLU:HG3	17:AT:77:VAL:CG2	2.42	0.50
22:AC:20:U:C3'	22:AC:21:A:C5'	2.87	0.50
24:BA:651:G:C5'	53:B8:18:ALA:HB3	2.41	0.50
24:BA:662:G:C5'	34:BO:15:ARG:O	2.59	0.50
24:BA:691:C:H2'	24:BA:692:C:H6	1.76	0.50
24:BA:764:A:N3	26:BD:213:ARG:NH1	2.60	0.50
24:BA:1204:A:O2'	24:BA:1205:U:OP2	2.29	0.50
24:BA:1309:G:O2'	24:BA:1310:G:H5'	2.11	0.50
24:BA:1731:G:N2	24:BA:1732:A:N7	2.59	0.50
24:BA:1732:A:N7	24:BA:1733:G:C5	2.79	0.50
24:BA:2376:A:N6	37:BQ:89:ARG:HD2	2.27	0.50
24:BA:2529:G:H5'	24:BA:2530:A:O5'	2.11	0.50
24:BA:2654:A:C4	24:BA:2656:U:O2	2.65	0.50
26:BD:228:PRO:HD3	26:BD:234:GLY:O	2.12	0.50
27:BE:38:THR:HG22	27:BE:41:LYS:H	1.75	0.50
27:BE:39:PRO:HD3	27:BE:45:THR:OG1	2.11	0.50
30:BH:26:VAL:O	30:BH:26:VAL:HG22	2.10	0.50
31:BK:38:LEU:H	31:BK:38:LEU:CD1	2.23	0.50
31:BK:83:ALA:HB2	31:BK:88:ILE:HD13	1.93	0.50
33:BN:11:ALA:O	33:BN:12:ASP:HB3	2.11	0.50
33:BN:87:ILE:HG21	33:BN:91:LEU:HA	1.93	0.50
34:BO:21:ARG:HA	34:BO:21:ARG:HE	1.76	0.50
35:BP:36:ALA:C	35:BP:37:LEU:HD23	2.36	0.50
36:B0:101:ALA:HB2	50:B5:44:THR:OG1	2.11	0.50
37:BQ:10:ARG:C	37:BQ:12:PHE:N	2.66	0.50
38:BR:132:LYS:O	38:BR:136:GLN:HB3	2.11	0.50
41:BS:64:MET:HG2	41:BS:109:GLU:OE2	2.11	0.50
1:CA:6:G:N2	5:CH:98:THR:OG1	2.43	0.50
1:CA:111:G:N1	1:CA:331:G:O6	2.36	0.50
1:CA:190:G:H2'	1:CA:190:G:N3	2.26	0.50
1:CA:748:C:O2'	1:CA:749:C:OP2	2.29	0.50
1:CA:951:G:HO2'	1:CA:972:C:H5	1.59	0.50
1:CA:1293:G:H2'	1:CA:1294:G:H8	1.74	0.50
1:CA:1321:C:H3'	1:CA:1322:C:H5"	1.93	0.50
6:CI:63:TYR:N	6:CI:63:TYR:CD2	2.79	0.50
9:CL:10:ARG:HG3	9:CL:105:ASP:HB2	1.92	0.50
15:CR:76:GLU:C	15:CR:78:TYR:N	2.69	0.50
18:CU:43:PHE:C	18:CU:51:LEU:HD12	2.36	0.50
22:CC:53:G:O2'	22:CC:54:U:H5'	2.10	0.50
22:CC:60:U:H5"	22:CC:61:C:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:307:G:H21	24:DA:330:A:H62	1.60	0.50
24:DA:371:A:H1'	24:DA:373:U:C5	2.47	0.50
24:DA:411:G:N2	34:DO:71:VAL:HG21	2.27	0.50
24:DA:719:C:H2'	24:DA:720:C:H6	1.77	0.50
24:DA:1505:C:H3'	24:DA:1506:C:C6	2.46	0.50
24:DA:1587:A:H2'	24:DA:1588:C:C6	2.46	0.50
24:DA:1946:U:H2'	24:DA:1947:C:C6	2.43	0.50
24:DA:2785:C:O2'	24:DA:2786:U:H5'	2.11	0.50
25:DB:31:C:O2	25:DB:31:C:H2'	2.11	0.50
26:DD:233:HIS:CD2	26:DD:233:HIS:H	2.29	0.50
29:DG:95:ARG:O	29:DG:96:ARG:C	2.54	0.50
30:DH:103:LEU:CD1	30:DH:131:VAL:HG21	2.41	0.50
31:DK:58:LEU:C	31:DK:60:GLU:N	2.69	0.50
32:DM:112:LEU:HD23	32:DM:113:GLY:N	2.26	0.50
44:DV:81:ARG:O	44:DV:81:ARG:HD3	2.12	0.50
44:DV:121:HIS:H	44:DV:121:HIS:CD2	2.29	0.50
47:DW:36:ARG:O	47:DW:40:SER:HB2	2.10	0.50
49:D4:10:VAL:HG23	49:D4:11:PRO:HD2	1.93	0.50
1:AA:632:A:H4'	1:AA:633:G:O5'	2.11	0.50
1:AA:688:G:H5'	11:AN:46:GLY:C	2.37	0.50
1:AA:960:U:N3	1:AA:1225:A:C8	2.76	0.50
1:AA:1054:C:H42	23:A1:22:A:H61	1.56	0.50
1:AA:1127:G:N2	1:AA:1145:C:N1	2.59	0.50
1:AA:1182:G:H5"	1:AA:1183:A:C5'	2.41	0.50
1:AA:1280:A:OP1	10:AM:40:LEU:HD21	2.12	0.50
1:AA:1305:G:OP1	21:AX:2:GLY:N	2.44	0.50
2:AE:137:ARG:HH21	2:AE:137:ARG:HG3	1.77	0.50
5:AH:81:GLU:HA	5:AH:89:ILE:O	2.11	0.50
10:AM:44:VAL:HG22	10:AM:66:ARG:HG2	1.94	0.50
10:AM:47:PHE:CE2	14:AQ:37:PHE:HE2	2.29	0.50
13:AP:66:LEU:CA	13:AP:70:LEU:HD12	2.39	0.50
13:AP:108:ARG:CZ	13:AP:114:ARG:HG2	2.40	0.50
16:AS:36:ILE:O	16:AS:36:ILE:HG13	2.11	0.50
16:AS:58:TYR:C	16:AS:60:LEU:N	2.68	0.50
17:AT:10:VAL:HA	17:AT:20:THR:O	2.11	0.50
17:AT:10:VAL:CG1	17:AT:19:VAL:HB	2.41	0.50
17:AT:60:ILE:HB	17:AT:74:LEU:HD23	1.93	0.50
18:AU:76:LEU:O	18:AU:78:LEU:N	2.44	0.50
19:AV:11:VAL:HG12	19:AV:38:SER:HB2	1.93	0.50
20:AW:74:LYS:HA	20:AW:74:LYS:HE3	1.93	0.50
24:BA:40:C:H2'	24:BA:41:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:139:G:O2'	24:BA:140:A:C2	2.64	0.50
24:BA:332:A:C5	24:BA:335:C:C4	2.99	0.50
24:BA:654(C):G:N1	24:BA:654(S):G:N1	2.59	0.50
24:BA:755:C:H2'	24:BA:756:C:H6	1.77	0.50
24:BA:805:G:C4'	24:BA:806:C:OP2	2.60	0.50
24:BA:1042:G:O2'	24:BA:1043:C:H5'	2.12	0.50
24:BA:1068:G:N1	24:BA:1069:A:N6	2.59	0.50
24:BA:1496:A:H1'	24:BA:1577:C:O2'	2.11	0.50
24:BA:2389:G:H5"	24:BA:2390:U:C5'	2.40	0.50
24:BA:2528:U:C2'	24:BA:2529:G:H5"	2.41	0.50
24:BA:2695:C:H2'	24:BA:2696:U:H6	1.76	0.50
24:BA:2884:U:H2'	24:BA:2885:C:H5'	1.93	0.50
26:BD:143:HIS:O	26:BD:144:ALA:C	2.54	0.50
29:BG:67:LYS:CE	49:B4:2:LYS:HG2	2.29	0.50
31:BK:27:ARG:HD2	46:BZ:71:TYR:CE1	2.47	0.50
36:B0:107:ASP:O	36:B0:108:GLY:C	2.54	0.50
41:BS:69:LEU:O	41:BS:69:LEU:HD12	2.11	0.50
42:BT:44:GLU:OE1	42:BT:50:LYS:O	2.30	0.50
46:BZ:73:LEU:C	46:BZ:75:GLU:N	2.69	0.50
1:CA:176:C:O2'	1:CA:1451:A:N1	2.44	0.50
1:CA:192:U:H2'	1:CA:193:C:C6	2.47	0.50
1:CA:192:U:O4'	20:CW:103:GLY:HA2	2.10	0.50
1:CA:328:C:H4'	1:CA:329:A:C5'	2.41	0.50
1:CA:960:U:C2'	1:CA:960:U:O2	2.59	0.50
1:CA:1026:G:O6	1:CA:1036:G:N2	2.45	0.50
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.74	0.50
2:CE:82:ARG:HA	2:CE:92:TYR:CE2	2.45	0.50
3:CF:184:TYR:HA	3:CF:200:ALA:O	2.12	0.50
5:CH:126:ARG:HH11	5:CH:126:ARG:CG	2.20	0.50
6:CI:10:LEU:HD13	6:CI:61:LEU:HD11	1.92	0.50
6:CI:63:TYR:HD2	6:CI:63:TYR:N	2.09	0.50
9:CL:79:LEU:HD22	9:CL:101:PHE:O	2.10	0.50
15:CR:17:ARG:NH1	15:CR:77:ARG:CZ	2.74	0.50
15:CR:17:ARG:NH1	15:CR:77:ARG:NH1	2.59	0.50
24:DA:26:G:H2'	24:DA:27:G:O4'	2.12	0.50
24:DA:467:G:OP1	52:D7:33:ARG:NH1	2.44	0.50
24:DA:580:C:H2'	24:DA:581:C:C6	2.47	0.50
24:DA:805:G:C5'	24:DA:806:C:OP2	2.59	0.50
24:DA:1166:C:C2	24:DA:1167:U:C5	3.00	0.50
24:DA:2145:C:H2'	24:DA:2147:G:N2	2.26	0.50
24:DA:2287:A:N6	24:DA:2344:U:N3	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2406:U:N3	34:DO:72:PRO:HB2	2.26	0.50
24:DA:2810:A:N6	24:DA:2891:G:H2'	2.26	0.50
27:DE:129:HIS:O	27:DE:130:GLY:C	2.53	0.50
28:DF:32:LEU:O	28:DF:36:VAL:HG23	2.11	0.50
30:DH:126:PRO:HD2	30:DH:127:GLU:N	2.25	0.50
30:DH:133:VAL:HG12	30:DH:141:VAL:HG13	1.93	0.50
32:DM:73:THR:HG22	32:DM:82:LEU:HD11	1.93	0.50
34:DO:114:ILE:HD13	34:DO:125:VAL:CG2	2.41	0.50
37:DQ:26:LEU:CD2	37:DQ:87:PHE:CD1	2.94	0.50
37:DQ:86:ALA:O	37:DQ:87:PHE:HB3	2.09	0.50
40:D2:5:VAL:HG22	40:D2:14:VAL:HG22	1.93	0.50
44:DV:24:LEU:CD1	44:DV:86:VAL:HG23	2.38	0.50
48:DX:17:LYS:HA	48:DX:20:LYS:HD2	1.92	0.50
52:D7:32:LYS:NZ	52:D7:36:GLN:NE2	2.59	0.50
1:AA:222:U:H2'	1:AA:223:U:C6	2.46	0.50
1:AA:1274:G:N2	1:AA:1275:A:N7	2.60	0.50
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.11	0.50
1:AA:1372:U:OP2	9:AL:11:LYS:NZ	2.44	0.50
2:AE:121:LEU:HD22	2:AE:127:ILE:HG12	1.92	0.50
2:AE:217:ARG:HH11	2:AE:217:ARG:HG3	1.76	0.50
5:AH:79:GLU:HA	5:AH:91:LEU:O	2.12	0.50
9:AL:28:VAL:CG1	9:AL:63:ILE:H	2.24	0.50
10:AM:21:GLN:HG2	10:AM:21:GLN:O	2.10	0.50
10:AM:50:ILE:CD1	10:AM:60:ARG:HH11	2.25	0.50
12:AO:6:THR:H	12:AO:9:GLN:HE21	1.58	0.50
18:AU:66:LEU:HD12	18:AU:66:LEU:O	2.12	0.50
24:BA:404:C:O2'	24:BA:405:U:H5'	2.11	0.50
24:BA:1212:G:HO2'	24:BA:1213:A:P	2.35	0.50
24:BA:1467:C:C6	24:BA:1546:C:H2'	2.46	0.50
24:BA:1659:U:O2'	24:BA:2712(A):A:N1	2.43	0.50
24:BA:1935:G:H1'	24:BA:1964:G:N2	2.26	0.50
24:BA:2592:G:C5	24:BA:2593:U:C5	2.99	0.50
24:BA:2643:G:H2'	24:BA:2644:G:O4'	2.12	0.50
24:BA:2679:A:H5'	27:BE:165:VAL:HG11	1.93	0.50
24:BA:2749:A:C8	24:BA:2750:A:N7	2.80	0.50
24:BA:2773:C:OP1	27:BE:164:ARG:NE	2.44	0.50
24:BA:2849:U:OP1	38:BR:95:ARG:NH1	2.45	0.50
26:BD:34:VAL:HG21	26:BD:103:ARG:HA	1.92	0.50
26:BD:246:PRO:HD2	26:BD:255:LYS:HD3	1.92	0.50
26:BD:266:SER:C	26:BD:267:SER:O	2.52	0.50
28:BF:1:MET:HB3	28:BF:2:LYS:HE3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:47:ILE:HG13	33:BN:48:PRO:HD2	1.93	0.50
34:BO:83:VAL:HG23	34:BO:105:LEU:HD22	1.93	0.50
35:BP:39:PRO:HB3	35:BP:99:PRO:HD3	1.92	0.50
35:BP:75:THR:HA	35:BP:88:GLY:HA2	1.93	0.50
35:BP:141:GLN:HA	44:BV:75:ASN:ND2	2.27	0.50
37:BQ:42:ASP:C	37:BQ:44:LYS:H	2.17	0.50
38:BR:90:GLN:HE21	38:BR:90:GLN:CA	2.15	0.50
40:B2:48:GLY:O	40:B2:49:THR:O	2.30	0.50
44:BV:56:VAL:C	44:BV:57:ILE:HD12	2.36	0.50
44:BV:130:PRO:O	44:BV:133:ILE:HD11	2.12	0.50
1:CA:1054:C:N4	22:CB:35:C:C2	2.80	0.50
2:CE:24:TRP:CE3	2:CE:26:PRO:HA	2.45	0.50
4:CG:162:LEU:HD13	4:CG:181:MET:HB3	1.93	0.50
7:CJ:40:ALA:O	7:CJ:41:ARG:C	2.54	0.50
9:CL:48:GLU:N	9:CL:49:PRO:CD	2.74	0.50
9:CL:53:VAL:HG21	9:CL:92:TYR:CZ	2.45	0.50
9:CL:83:ARG:HA	9:CL:86:VAL:CG1	2.42	0.50
10:CM:54:PHE:O	10:CM:55:LYS:HG3	2.10	0.50
13:CP:57:ARG:HH11	13:CP:57:ARG:CB	2.14	0.50
13:CP:121:LYS:HZ1	22:CB:41:C:H4'	1.75	0.50
22:CC:68:C:O2'	22:CC:69:C:H5'	2.12	0.50
22:CD:64:G:C2'	22:CD:65:C:H5'	2.42	0.50
24:DA:113:G:H5"	24:DA:114:U:OP1	2.12	0.50
24:DA:602:G:N2	24:DA:655:A:C8	2.75	0.50
24:DA:1568:G:OP1	26:DD:63:ARG:NH2	2.44	0.50
24:DA:1653:G:HO2'	24:DA:1654:A:P	2.35	0.50
24:DA:1694:C:O2'	24:DA:1695:G:P	2.69	0.50
24:DA:1814:G:H4'	26:DD:51:VAL:HG21	1.92	0.50
24:DA:1820:U:O2'	26:DD:159:ALA:HB3	2.12	0.50
24:DA:1929:G:C4'	24:DA:1930:G:OP1	2.59	0.50
24:DA:2296:U:C4'	24:DA:2297:C:OP1	2.57	0.50
24:DA:2409:G:H2'	24:DA:2410:G:O4'	2.10	0.50
24:DA:2590:A:H2'	24:DA:2591:C:C6	2.47	0.50
24:DA:2737:G:H2'	24:DA:2738:A:H8	1.77	0.50
30:DH:131:VAL:CG1	30:DH:132:ARG:N	2.74	0.50
31:DK:64:GLU:O	31:DK:67:ARG:NE	2.44	0.50
36:D0:3:HIS:C	36:D0:5:LYS:H	2.17	0.50
36:D0:85:PRO:C	36:D0:87:TYR:H	2.19	0.50
37:DQ:95:HIS:CG	37:DQ:96:GLY:N	2.78	0.50
39:D1:112:ARG:HH11	39:D1:112:ARG:HG2	1.76	0.50
43:DU:46:LYS:HE3	43:DU:63:LYS:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:80:LEU:HB2	46:DZ:81:LYS:CE	2.41	0.50
47:DW:41:ILE:HD11	47:DW:44:LEU:CB	2.42	0.50
49:D4:1:MET:HE3	49:D4:6:HIS:CD2	2.46	0.50
49:D4:57:GLU:O	49:D4:61:ARG:O	2.30	0.50
52:D7:9:ARG:HH12	52:D7:47:ARG:HG3	1.76	0.50
1:AA:181:G:H1'	1:AA:182:U:H5	1.76	0.50
1:AA:303:A:H2'	1:AA:304:U:H6	1.76	0.50
1:AA:555:C:H2'	1:AA:556:C:C6	2.46	0.50
1:AA:693:G:H2'	1:AA:694:A:O4'	2.12	0.50
3:AF:4:LYS:O	3:AF:5:ILE:C	2.54	0.50
3:AF:84:ILE:HG23	3:AF:88:ARG:HE	1.75	0.50
4:AG:137:SER:O	4:AG:138:TYR:C	2.55	0.50
6:AI:75:LEU:HD21	6:AI:79:LEU:HD11	1.93	0.50
8:AK:10:LEU:HB3	8:AK:83:ILE:CD1	2.41	0.50
8:AK:11:THR:HG22	8:AK:15:ASN:ND2	2.26	0.50
11:AN:33:THR:HG22	11:AN:39:PRO:CA	2.38	0.50
15:AR:31:LEU:HD12	15:AR:31:LEU:N	2.26	0.50
16:AS:21:VAL:O	16:AS:33:ILE:HB	2.11	0.50
19:AV:62:ILE:HG23	19:AV:66:MET:HE1	1.91	0.50
22:AD:18:G:OP1	22:AD:18:G:O4'	2.29	0.50
24:BA:603:A:H4'	24:BA:604:G:O5'	2.12	0.50
24:BA:620:G:H4'	24:BA:621:A:OP1	2.10	0.50
24:BA:872:A:N6	24:BA:906:G:C6	2.80	0.50
24:BA:1585:C:HO2'	24:BA:1586:A:P	2.33	0.50
24:BA:2649:U:H2'	24:BA:2650:U:C6	2.47	0.50
25:BB:95:U:C6	25:BB:95:U:C3'	2.95	0.50
26:BD:83:GLU:OE1	26:BD:104:TYR:CE2	2.65	0.50
27:BE:38:THR:O	27:BE:43:GLY:N	2.27	0.50
28:BF:65:TRP:O	28:BF:66:PRO:C	2.54	0.50
28:BF:134:GLY:HA2	28:BF:166:ALA:HB2	1.94	0.50
30:BH:19:VAL:HG13	30:BH:43:VAL:CG2	2.41	0.50
30:BH:167:GLU:CD	30:BH:167:GLU:N	2.69	0.50
31:BK:96:ASP:O	31:BK:97:ILE:C	2.54	0.50
31:BK:130:TYR:CD1	31:BK:131:LYS:N	2.80	0.50
34:BO:138:LEU:C	34:BO:140:ALA:N	2.70	0.50
40:B2:33:VAL:HG12	40:B2:34:GLU:O	2.11	0.50
41:BS:21:VAL:HG22	41:BS:47:VAL:CG2	2.41	0.50
42:BT:53:LYS:HB3	42:BT:82:GLN:HB3	1.93	0.50
45:B3:32:ARG:HB2	45:B3:35:ASN:OD1	2.11	0.50
46:BZ:15:ALA:O	46:BZ:40:ARG:HG3	2.12	0.50
46:BZ:86:SER:N	46:BZ:87:PRO:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:97:LEU:O	46:BZ:98:LEU:O	2.29	0.50
47:BW:53:LEU:HD22	47:BW:57:ILE:HD11	1.93	0.50
1:CA:278:G:OP2	17:CT:41:LYS:HE2	2.12	0.50
1:CA:728:A:C5	15:CR:54:ARG:HD2	2.46	0.50
1:CA:828:A:H5"	1:CA:859:A:N1	2.27	0.50
1:CA:1488:G:O2'	1:CA:1489:G:H5'	2.12	0.50
4:CG:54:TYR:CE1	4:CG:206:PHE:HE1	2.29	0.50
7:CJ:144:MET:HE1	22:CD:30:G:N2	2.27	0.50
9:CL:55:ALA:HA	9:CL:58:HIS:HD2	1.76	0.50
13:CP:2:ALA:O	13:CP:9:ILE:HB	2.10	0.50
19:CV:50:ALA:CB	19:CV:57:HIS:HB3	2.37	0.50
24:DA:142:G:H1'	42:DT:37:THR:HG22	1.91	0.50
24:DA:511:U:C5	24:DA:512:G:C5	2.99	0.50
24:DA:1457:A:C2	24:DA:2703:C:C2	3.00	0.50
24:DA:2249:U:H4'	24:DA:2275:C:H5	1.77	0.50
25:DB:81:G:N3	25:DB:82:G:N7	2.59	0.50
29:DG:6:ALA:H	49:D4:23:GLU:CG	2.25	0.50
29:DG:43:LEU:O	29:DG:88:ILE:HG12	2.12	0.50
29:DG:111:LEU:N	29:DG:112:PRO:CD	2.75	0.50
31:DK:74:ASN:ND2	31:DK:75:LEU:H	2.09	0.50
33:DN:35:VAL:HG23	33:DN:35:VAL:O	2.11	0.50
34:DO:64:LYS:C	34:DO:66:GLY:N	2.56	0.50
34:DO:147:LEU:O	34:DO:148:LEU:HB2	2.11	0.50
35:DP:132:VAL:HG12	35:DP:133:ARG:N	2.27	0.50
37:DQ:89:ARG:HD2	37:DQ:89:ARG:O	2.11	0.50
46:DZ:87:PRO:O	46:DZ:91:LYS:HB2	2.11	0.50
50:D5:43:HIS:CD2	50:D5:43:HIS:N	2.79	0.50
51:D6:9:LEU:HB3	51:D6:26:ASN:O	2.11	0.50
1:AA:197:A:C6	1:AA:221:C:H4'	2.46	0.50
1:AA:633:G:H2'	1:AA:634:C:H6	1.75	0.50
1:AA:807:A:H2'	1:AA:808:C:C6	2.46	0.50
1:AA:868:C:H2'	1:AA:869:G:O4'	2.11	0.50
1:AA:1279:A:H2'	1:AA:1279:A:N3	2.27	0.50
2:AE:56:ARG:HH11	2:AE:56:ARG:HG2	1.77	0.50
2:AE:97:TRP:HH2	2:AE:176:GLU:CG	2.24	0.50
2:AE:102:LEU:H	2:AE:102:LEU:CD1	2.23	0.50
4:AG:26:CYS:CA	4:AG:31:CYS:HB2	2.32	0.50
4:AG:120:LEU:HB3	4:AG:126:ILE:CD1	2.36	0.50
7:AJ:27:ILE:HD11	7:AJ:43:PHE:CD2	2.46	0.50
10:AM:8:LEU:HD12	10:AM:8:LEU:N	2.27	0.50
15:AR:61:GLY:O	15:AR:65:ARG:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AT:64:PRO:HB3	17:AT:70:ARG:NH1	2.27	0.50
22:AD:48:C:O2	22:AD:48:C:H2'	2.11	0.50
24:BA:10:G:H2'	24:BA:11:G:C8	2.47	0.50
24:BA:370:G:O2'	24:BA:371:A:OP1	2.30	0.50
24:BA:609:A:H2'	24:BA:609(A):G:O4'	2.12	0.50
24:BA:654(C):G:N3	24:BA:654(C):G:C2'	2.74	0.50
24:BA:1171:G:H1'	24:BA:1173:G:H5'	1.92	0.50
24:BA:1342:A:O2'	24:BA:1343:G:O5'	2.30	0.50
24:BA:1342:A:N1	24:BA:1397:U:C5	2.80	0.50
24:BA:1379:A:O2'	24:BA:1380:G:OP1	2.30	0.50
24:BA:1507:A:H2'	24:BA:1508:A:O4'	2.11	0.50
27:BE:87:GLU:O	27:BE:88:GLY:C	2.53	0.50
28:BF:116:ASP:OD2	34:BO:1:MET:HG3	2.11	0.50
29:BG:41:GLN:O	29:BG:43:LEU:N	2.45	0.50
30:BH:24:VAL:CG2	30:BH:35:VAL:HB	2.41	0.50
32:BM:11:PRO:HB2	32:BM:51:PHE:HE1	1.76	0.50
32:BM:38:HIS:CE1	32:BM:39:ARG:HG3	2.46	0.50
32:BM:45:ASN:N	32:BM:45:ASN:ND2	2.59	0.50
33:BN:13:ASN:C	33:BN:15:GLY:H	2.17	0.50
34:BO:114:ILE:HD13	34:BO:130:PHE:CE1	2.46	0.50
35:BP:43:THR:C	35:BP:45:GLN:N	2.70	0.50
36:B0:3:HIS:O	36:B0:5:LYS:HG3	2.12	0.50
42:BT:8:ILE:CD1	42:BT:42:ALA:HB1	2.29	0.50
45:B3:70:GLN:O	45:B3:70:GLN:HG3	2.12	0.50
47:BW:10:LEU:HG	47:BW:14:ARG:HH21	1.75	0.50
49:B4:43:TYR:O	49:B4:44:THR:OG1	2.24	0.50
1:CA:74:C:N4	1:CA:75:C:N4	2.59	0.50
1:CA:112:G:C4'	1:CA:389:A:H5"	2.41	0.50
1:CA:250:A:O2'	1:CA:251:G:OP2	2.29	0.50
1:CA:677:U:H2'	1:CA:678:U:H6	1.70	0.50
1:CA:1085:U:H4'	1:CA:1086:U:OP2	2.12	0.50
1:CA:1160:G:O6	1:CA:1177:G:N2	2.45	0.50
1:CA:1252:A:N6	1:CA:1285:A:N1	2.46	0.50
1:CA:1357:A:H2	1:CA:1365:G:H22	1.60	0.50
2:CE:23:ARG:HH11	2:CE:23:ARG:HG2	1.76	0.50
14:CQ:48:ALA:CA	14:CQ:53:LEU:HD12	2.42	0.50
16:CS:83:GLU:HG3	16:CS:84:ALA:H	1.77	0.50
22:CD:14:A:H5'	22:CD:16:C:H41	1.76	0.50
24:DA:52:A:C2'	24:DA:53:A:H5'	2.42	0.50
24:DA:414:C:H2'	24:DA:415:A:C8	2.46	0.50
24:DA:458:G:O2'	24:DA:469:G:N1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:483:A:C2	24:DA:484:C:H1'	2.47	0.50
24:DA:593:G:H1'	53:D8:4:MET:HE1	1.93	0.50
24:DA:890:A:O2'	24:DA:892:G:H8	1.94	0.50
24:DA:1474:C:H2'	24:DA:1475:G:H5"	1.93	0.50
24:DA:2114:A:N6	24:DA:2119:A:N6	2.59	0.50
24:DA:2171:A:O2'	24:DA:2172:U:O5'	2.29	0.50
24:DA:2290:G:H2'	24:DA:2291:U:O4'	2.12	0.50
24:DA:2346:A:HO2'	24:DA:2347:C:P	2.33	0.50
24:DA:2419:U:O4	53:D8:30:ARG:CZ	2.59	0.50
24:DA:2771:C:H2'	24:DA:2772:C:H6	1.76	0.50
26:DD:182:LEU:H	26:DD:272:ALA:CB	2.25	0.50
29:DG:16:ARG:HB3	29:DG:17:PRO:HD3	1.94	0.50
29:DG:41:GLN:HE21	29:DG:60:LEU:CD1	2.24	0.50
29:DG:103:LEU:HD21	29:DG:178:PHE:CZ	2.47	0.50
29:DG:114:ILE:HG21	29:DG:117:PHE:HB2	1.93	0.50
30:DH:24:VAL:HG21	30:DH:72:ILE:HG12	1.94	0.50
30:DH:169:VAL:HG13	30:DH:170:ARG:N	2.26	0.50
39:D1:92:ARG:C	39:D1:94:ASN:N	2.69	0.50
39:D1:92:ARG:CD	39:D1:94:ASN:HB3	2.42	0.50
41:DS:34:ASN:O	41:DS:35:ILE:C	2.55	0.50
44:DV:107:THR:HG22	44:DV:108:PRO:HA	1.94	0.50
44:DV:134:PRO:O	44:DV:136:PHE:N	2.45	0.50
44:DV:170:THR:O	44:DV:171:ILE:CB	2.60	0.50
46:DZ:94:LEU:O	46:DZ:95:LEU:HG	2.11	0.50
48:DX:21:ALA:O	48:DX:25:ALA:N	2.41	0.50
49:D4:42:PHE:CD1	49:D4:42:PHE:C	2.90	0.50
1:AA:528:C:H5'	1:AA:535:A:C6	2.46	0.50
1:AA:1030:C:H2'	1:AA:1031:G:OP1	2.11	0.50
1:AA:1126:U:H6	1:AA:1126:U:OP2	1.95	0.50
1:AA:1379:G:C8	7:AJ:3:ARG:HD3	2.47	0.50
6:AI:78:GLU:O	6:AI:81:ILE:HG13	2.11	0.50
8:AK:91:ARG:CG	8:AK:91:ARG:HH11	2.25	0.50
9:AL:20:ARG:H	9:AL:60:ASP:H	1.60	0.50
10:AM:48:THR:HG22	10:AM:60:ARG:HD2	1.93	0.50
11:AN:110:ASP:CB	18:AU:85:LEU:HD11	2.40	0.50
12:AO:25:PRO:O	12:AO:26:ALA:HB3	2.12	0.50
12:AO:79:GLU:HG3	12:AO:80:HIS:N	2.27	0.50
12:AO:110:VAL:HG23	12:AO:120:TYR:HB3	1.94	0.50
13:AP:88:ARG:HG3	13:AP:98:VAL:HG13	1.94	0.50
19:AV:36:ARG:CG	19:AV:70:LYS:HB2	2.40	0.50
19:AV:36:ARG:C	19:AV:38:SER:N	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AV:45:VAL:C	19:AV:47:HIS:H	2.20	0.50
24:BA:260:G:H1'	24:BA:621:A:H8	1.76	0.50
24:BA:270(O):U:O2	24:BA:270(O):U:H2'	2.10	0.50
24:BA:329:G:N7	43:BU:19:LYS:CE	2.74	0.50
24:BA:414:C:H2'	24:BA:415:A:H8	1.77	0.50
24:BA:589:C:H2'	24:BA:590:A:C8	2.47	0.50
24:BA:1171:G:H2'	24:BA:1173:G:N3	2.26	0.50
24:BA:1238:G:O2'	24:BA:1239:G:H5'	2.12	0.50
24:BA:1610:A:H5"	24:BA:1611:C:OP2	2.11	0.50
26:BD:118:VAL:HG22	26:BD:119:ALA:N	2.27	0.50
26:BD:122:ASP:O	26:BD:123:ALA:O	2.29	0.50
27:BE:51:PHE:O	27:BE:52:LEU:HB2	2.11	0.50
29:BG:160:VAL:CG1	29:BG:161:THR:N	2.73	0.50
31:BK:2:LYS:O	31:BK:3:VAL:HG13	2.11	0.50
31:BK:9:LEU:HD23	31:BK:9:LEU:H	1.76	0.50
33:BN:90:GLN:O	33:BN:92:GLU:HG3	2.11	0.50
37:BQ:56:LEU:O	37:BQ:57:LYS:O	2.30	0.50
37:BQ:66:ALA:O	37:BQ:67:ARG:C	2.55	0.50
38:BR:118:ARG:CG	38:BR:121:ILE:HD12	2.42	0.50
40:B2:22:VAL:CG2	40:B2:23:GLU:H	2.22	0.50
41:BS:18:ARG:HG3	41:BS:76:VAL:HG12	1.94	0.50
47:BW:51:ARG:HG3	47:BW:52:ASP:N	2.27	0.50
49:B4:39:CYS:O	49:B4:40:HIS:CG	2.64	0.50
1:CA:22:G:H2'	1:CA:23:C:H6	1.76	0.50
1:CA:107:G:H2'	1:CA:108:G:H5'	1.94	0.50
1:CA:564:C:C6	17:CT:31:LEU:HD11	2.47	0.50
1:CA:693:G:H2'	1:CA:694:A:C8	2.47	0.50
1:CA:738:C:H2'	1:CA:739:C:C6	2.46	0.50
1:CA:792:A:O2'	1:CA:793:U:O5'	2.29	0.50
1:CA:1114:C:H1'	14:CQ:60:SER:HB2	1.93	0.50
1:CA:1128:C:O2'	1:CA:1130:A:C8	2.65	0.50
2:CE:103:THR:N	2:CE:180:LEU:HD11	2.26	0.50
2:CE:200:ILE:O	2:CE:201:ILE:HD13	2.12	0.50
3:CF:34:LEU:O	3:CF:38:ARG:HG3	2.10	0.50
3:CF:36:ASP:HB3	3:CF:40:ARG:NH1	2.25	0.50
3:CF:132:ARG:O	3:CF:136:GLN:HB2	2.11	0.50
5:CH:32:VAL:O	5:CH:43:LEU:HD12	2.12	0.50
8:CK:91:ARG:HG2	8:CK:91:ARG:NH1	2.25	0.50
9:CL:29:ASN:OD1	9:CL:64:THR:HA	2.11	0.50
10:CM:40:LEU:HB2	10:CM:69:ASN:CB	2.40	0.50
19:CV:26:GLY:O	19:CV:27:GLU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CW:84:LEU:HD13	20:CW:84:LEU:C	2.37	0.50
21:CX:6:ARG:HH21	21:CX:15:ARG:NE	2.09	0.50
24:DA:195:A:N7	24:DA:197:A:OP1	2.45	0.50
24:DA:480:A:H2'	24:DA:481:G:OP1	2.11	0.50
24:DA:559:G:N2	39:D1:49:HIS:CD2	2.78	0.50
24:DA:735:A:H3'	24:DA:736:C:C6	2.47	0.50
24:DA:1138:G:H2'	24:DA:1139:G:O4'	2.12	0.50
24:DA:2373:G:H2'	24:DA:2374:C:C6	2.47	0.50
24:DA:2886:G:H2'	24:DA:2887:U:H6	1.76	0.50
25:DB:66:A:O2'	25:DB:67:G:P	2.69	0.50
27:DE:2:LYS:HG2	27:DE:95:ILE:CG2	2.42	0.50
27:DE:105:THR:HB	27:DE:197:ILE:HG12	1.92	0.50
32:DM:120:LEU:HD13	32:DM:120:LEU:C	2.37	0.50
33:DN:104:ARG:NE	38:DR:34:VAL:HG11	2.26	0.50
34:DO:138:LEU:HD11	34:DO:144:GLU:CG	2.42	0.50
37:DQ:26:LEU:HD22	37:DQ:87:PHE:CD1	2.46	0.50
37:DQ:60:GLY:O	37:DQ:61:ASN:CB	2.55	0.50
40:D2:29:PRO:O	40:D2:61:VAL:O	2.29	0.50
40:D2:51:VAL:CG1	40:D2:52:VAL:H	2.22	0.50
40:D2:51:VAL:CG1	40:D2:52:VAL:N	2.75	0.50
41:DS:22:ASP:HA	41:DS:25:ARG:HH12	1.75	0.50
41:DS:40:ASN:C	41:DS:41:LYS:HG2	2.36	0.50
43:DU:48:ALA:HB2	43:DU:61:ILE:CD1	2.41	0.50
49:D4:22:ILE:H	49:D4:22:ILE:HD12	1.77	0.50
50:D5:37:LYS:O	50:D5:37:LYS:HD2	2.12	0.50
1:AA:243:A:H4'	1:AA:244:U:O5'	2.11	0.50
1:AA:752:G:H8	1:AA:752:G:O5'	1.95	0.50
1:AA:965:A:O2'	1:AA:966:G:C5'	2.58	0.50
1:AA:977:A:H2'	1:AA:977:A:N3	2.26	0.50
1:AA:1178:G:C8	1:AA:1180:A:OP2	2.65	0.50
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.46	0.50
1:AA:1287:A:H2	1:AA:1353:G:H1'	1.75	0.50
2:AE:70:PHE:CD1	2:AE:70:PHE:N	2.79	0.50
2:AE:102:LEU:N	2:AE:102:LEU:CD1	2.74	0.50
3:AF:6:HIS:NE2	3:AF:184:TYR:CE2	2.79	0.50
3:AF:131:ARG:HE	3:AF:166:GLU:CG	2.25	0.50
4:AG:150:GLU:O	4:AG:152:SER:N	2.44	0.50
6:AI:19:LEU:HD23	6:AI:19:LEU:O	2.12	0.50
6:AI:75:LEU:O	6:AI:78:GLU:N	2.45	0.50
8:AK:34:GLU:O	8:AK:37:ARG:HG2	2.12	0.50
9:AL:95:LYS:HD3	9:AL:95:LYS:C	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AN:21:ILE:HG12	11:AN:30:VAL:HG12	1.94	0.50
11:AN:126:ARG:HH11	11:AN:126:ARG:HG3	1.76	0.50
16:AS:66:PRO:C	16:AS:67:THR:O	2.55	0.50
22:AD:47:U:H2'	22:AD:48:C:H4'	1.94	0.50
22:AD:49:G:H8	22:AD:49:G:O5'	1.95	0.50
24:BA:91:A:H2'	24:BA:92:G:H5'	1.93	0.50
24:BA:177:G:H5"	24:BA:178:G:OP2	2.12	0.50
24:BA:395:U:H2'	24:BA:396:G:C8	2.47	0.50
24:BA:447:A:H5"	24:BA:448:U:OP1	2.11	0.50
24:BA:621:A:C2	24:BA:622:G:C8	3.00	0.50
24:BA:1142(A):A:C5	24:BA:1144:G:N7	2.79	0.50
24:BA:1162:G:N2	40:B2:89:GLN:HE22	2.10	0.50
24:BA:1340:U:H4'	24:BA:1341:U:OP2	2.11	0.50
24:BA:1341:U:H3'	24:BA:1397:U:C2	2.46	0.50
24:BA:1364:G:C8	46:BZ:2:SER:HA	2.46	0.50
24:BA:1510:A:H2'	24:BA:1511:A:H8	1.76	0.50
24:BA:1608:A:O2'	24:BA:1610:A:OP2	2.29	0.50
24:BA:1799:G:N7	26:BD:179:SER:OG	2.45	0.50
24:BA:1922:G:O2'	24:BA:1923:U:H5'	2.12	0.50
24:BA:1925:C:N4	24:BA:1926:U:O4'	2.45	0.50
24:BA:1930:G:N2	24:BA:1968:G:H2'	2.27	0.50
24:BA:2166:G:H4'	24:BA:2167:U:OP1	2.11	0.50
24:BA:2287:A:O2'	24:BA:2288:A:O5'	2.26	0.50
24:BA:2593:U:H2'	24:BA:2594:C:C6	2.47	0.50
24:BA:2656:U:O4	24:BA:2665:A:C6	2.64	0.50
24:BA:2808:U:O4	24:BA:2892:A:N7	2.44	0.50
26:BD:106:ILE:C	26:BD:106:ILE:CD1	2.84	0.50
26:BD:155:LEU:N	26:BD:155:LEU:CD1	2.75	0.50
27:BE:32:PRO:HA	27:BE:90:THR:HG23	1.93	0.50
27:BE:104:VAL:HG11	27:BE:188:VAL:HG23	1.93	0.50
27:BE:116:VAL:HG23	27:BE:120:TRP:HD1	1.77	0.50
27:BE:134:ILE:HA	27:BE:137:HIS:CD2	2.47	0.50
29:BG:41:GLN:CB	29:BG:43:LEU:HD13	2.40	0.50
29:BG:161:THR:C	29:BG:163:ALA:H	2.20	0.50
30:BH:125:VAL:HG13	30:BH:126:PRO:CG	2.41	0.50
33:BN:23:ARG:NH1	33:BN:23:ARG:HG2	2.22	0.50
35:BP:64:ILE:N	35:BP:64:ILE:CD1	2.74	0.50
37:BQ:84:GLN:HA	37:BQ:109:GLY:CA	2.42	0.50
37:BQ:105:ALA:CB	37:BQ:112:PHE:HE2	2.24	0.50
39:B1:90:VAL:CG2	40:B2:39:LEU:HB3	2.31	0.50
39:B1:92:ARG:NH1	40:B2:11:GLN:CB	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:19:ARG:HH11	44:BV:19:ARG:CG	2.25	0.50
44:BV:28:MET:HE2	44:BV:90:VAL:CG2	2.41	0.50
44:BV:111:VAL:HG21	44:BV:145:GLU:HB2	1.94	0.50
49:B4:25:TYR:O	49:B4:26:SER:C	2.53	0.50
49:B4:40:HIS:N	49:B4:41:PRO:HD2	2.21	0.50
50:B5:4:HIS:O	50:B5:5:PRO:C	2.50	0.50
52:B7:5:TRP:HE1	52:B7:7:PRO:HG3	1.76	0.50
53:B8:33:ASN:HB2	53:B8:36:LYS:HE2	1.94	0.50
1:CA:1239:A:H2'	1:CA:1298:C:N4	2.26	0.50
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.76	0.50
1:CA:1405:G:O4'	1:CA:1519:A:H4'	2.11	0.50
3:CF:195:VAL:HG12	3:CF:196:LEU:H	1.75	0.50
9:CL:33:PHE:HZ	9:CL:47:LEU:HD21	1.76	0.50
11:CN:106:LYS:O	11:CN:107:SER:HB3	2.12	0.50
22:CD:58:A:O2'	22:CD:60:U:C5	2.63	0.50
22:CD:70:G:C2'	22:CD:71:C:H5'	2.41	0.50
24:DA:99:U:C6	24:DA:102:G:C2	3.00	0.50
24:DA:746:A:C6	24:DA:2611:U:H5"	2.47	0.50
24:DA:880:G:OP1	24:DA:880:G:H4'	2.10	0.50
24:DA:897:C:H2'	24:DA:898:C:O4'	2.12	0.50
24:DA:1061:U:C4'	24:DA:1070:A:H1'	2.42	0.50
24:DA:1099:G:H5'	24:DA:1099:G:C8	2.37	0.50
24:DA:1212:G:C2'	24:DA:1236:G:N2	2.75	0.50
24:DA:1531:C:O2'	24:DA:1532:C:H5'	2.11	0.50
24:DA:2405:G:HO2'	24:DA:2406:U:P	2.35	0.50
24:DA:2604:U:C2'	24:DA:2605:U:H5'	2.42	0.50
24:DA:2657:A:H2'	24:DA:2658:C:H5'	1.94	0.50
24:DA:2660:A:H2'	24:DA:2660:A:N3	2.27	0.50
26:DD:35:LYS:HE2	26:DD:104:TYR:HB2	1.94	0.50
29:DG:121:ASN:C	29:DG:123:ASN:H	2.19	0.50
30:DH:16:SER:O	30:DH:17:VAL:HG23	2.12	0.50
33:DN:69:ILE:O	33:DN:76:ALA:HA	2.11	0.50
34:DO:112:LEU:HD22	34:DO:113:LYS:N	2.26	0.50
35:DP:23:GLY:O	35:DP:24:GLY:C	2.54	0.50
36:D0:10:LEU:O	36:D0:11:ASN:C	2.55	0.50
37:DQ:5:THR:HG1	37:DQ:7:TYR:HB3	1.75	0.50
43:DU:2:ARG:O	43:DU:3:VAL:C	2.55	0.50
44:DV:150:LEU:O	44:DV:151:HIS:O	2.29	0.50
47:DW:9:GLN:O	47:DW:12:GLU:HB3	2.10	0.50
47:DW:69:ARG:CB	47:DW:69:ARG:HH11	2.25	0.50
22:CB:62:C:H6	22:CB:62:C:O5'	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:90:C:H5'	1:AA:91:C:OP1	2.12	0.50
1:AA:151:A:O2'	1:AA:152:A:H5'	2.11	0.50
1:AA:243:A:O2'	1:AA:244:U:OP2	2.29	0.50
1:AA:327:A:O3'	1:AA:328:C:O4'	2.30	0.50
1:AA:794:A:H2'	1:AA:795:C:H6	1.71	0.50
1:AA:815:A:H5"	1:AA:817:C:H41	1.77	0.50
1:AA:1029:G:OP1	1:AA:1029:G:H4'	2.12	0.50
1:AA:1200:C:O2	1:AA:1200:C:H2'	2.10	0.50
1:AA:1321:C:C3'	1:AA:1322:C:H5"	2.42	0.50
2:AE:6:THR:CG2	2:AE:217:ARG:HB3	2.41	0.50
2:AE:145:LEU:O	2:AE:149:LEU:HB2	2.12	0.50
2:AE:161:ALA:O	2:AE:162:ILE:HG23	2.12	0.50
2:AE:233:SER:O	2:AE:235:SER:N	2.45	0.50
3:AF:75:VAL:HB	3:AF:83:ARG:CD	2.32	0.50
3:AF:148:GLY:HA3	3:AF:203:PHE:HB3	1.93	0.50
4:AG:61:LYS:NZ	4:AG:62:GLN:HE22	2.10	0.50
4:AG:179:GLU:C	4:AG:181:MET:H	2.18	0.50
7:AJ:73:MET:HA	7:AJ:91:VAL:HG23	1.94	0.50
8:AK:12:ARG:NH1	8:AK:27:PRO:CD	2.71	0.50
10:AM:22:LYS:HD2	10:AM:22:LYS:O	2.12	0.50
12:AO:124:LYS:HG3	12:AO:125:PRO:HD2	1.93	0.50
13:AP:39:ILE:HD11	13:AP:56:LEU:HD23	1.92	0.50
13:AP:106:ASN:O	13:AP:107:ALA:HB3	2.12	0.50
16:AS:53:VAL:O	16:AS:57:ARG:HG3	2.12	0.50
19:AV:32:LYS:HD3	19:AV:32:LYS:N	2.26	0.50
22:AD:59:A:H2'	22:AD:60:U:H5'	1.94	0.50
24:BA:153:C:P	46:BZ:88:LYS:NZ	2.85	0.50
24:BA:270:A:O2'	24:BA:270(A):A:H5'	2.12	0.50
24:BA:363:G:H5'	24:BA:363(A):A:OP2	2.12	0.50
24:BA:859:G:O2'	24:BA:860:U:OP2	2.30	0.50
24:BA:1176:G:H5'	24:BA:1177:A:OP1	2.12	0.50
24:BA:1581:G:H2'	24:BA:1582:C:O4'	2.12	0.50
24:BA:1884:A:C2	24:BA:1885:A:C8	3.00	0.50
24:BA:1963:U:O2	24:BA:1963:U:C2'	2.57	0.50
24:BA:2439:A:H5'	24:BA:2439:A:H8	1.76	0.50
24:BA:2477:C:C6	24:BA:2481:G:O6	2.64	0.50
24:BA:2477:C:H6	24:BA:2481:G:O6	1.95	0.50
24:BA:2495:G:O2'	24:BA:2496:C:H5'	2.11	0.50
24:BA:2710:C:OP1	36:B0:15:SER:OG	2.29	0.50
24:BA:2862:G:H2'	24:BA:2863:C:H6	1.77	0.50
26:BD:135:PHE:HD2	26:BD:135:PHE:N	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:123:LEU:HD12	28:BF:192:LEU:HD22	1.94	0.50
29:BG:6:ALA:HB3	29:BG:104:GLU:OE1	2.12	0.50
29:BG:55:LYS:NZ	29:BG:148:MET:HE2	2.26	0.50
30:BH:133:VAL:CG1	30:BH:134:SER:N	2.75	0.50
33:BN:71:ARG:HG3	33:BN:71:ARG:HH11	1.76	0.50
35:BP:77:LYS:HZ2	35:BP:82:ARG:CA	2.04	0.50
35:BP:127:ILE:CG2	35:BP:128:LYS:H	2.23	0.50
39:B1:89:GLU:O	39:B1:90:VAL:C	2.54	0.50
40:B2:5:VAL:HG23	40:B2:37:VAL:CG1	2.39	0.50
40:B2:48:GLY:HA3	40:B2:52:VAL:HG22	1.93	0.50
43:BU:44:ILE:HG12	43:BU:45:VAL:N	2.27	0.50
43:BU:54:LYS:C	43:BU:55:TYR:CG	2.89	0.50
43:BU:73:ARG:HH21	43:BU:81:LYS:HA	1.77	0.50
44:BV:26:GLY:HA3	44:BV:86:VAL:O	2.12	0.50
44:BV:150:LEU:CD2	44:BV:171:ILE:HG22	2.42	0.50
49:B4:56:VAL:HG13	49:B4:57:GLU:N	2.27	0.50
51:B6:36:LEU:HD21	51:B6:50:ARG:NH2	2.27	0.50
1:CA:66:G:O4’	1:CA:173:U:O4	2.30	0.50
1:CA:536:C:H2’	1:CA:536:C:O2	2.11	0.50
1:CA:687:A:N6	1:CA:703:G:H1’	2.27	0.50
1:CA:830:G:H2’	1:CA:831:U:O4’	2.12	0.50
1:CA:1053:G:H5’	1:CA:1054:C:C5’	2.27	0.50
1:CA:1314:C:OP2	19:CV:4:SER:OG	2.30	0.50
3:CF:11:ARG:HG3	3:CF:15:THR:HG21	1.94	0.50
7:CJ:148:ASN:C	7:CJ:150:ALA:N	2.69	0.50
13:CP:120:LYS:O	13:CP:121:LYS:CB	2.60	0.50
14:CQ:39:LEU:HD22	14:CQ:43:CYS:HB3	1.93	0.50
17:CT:33:GLY:O	17:CT:34:LYS:C	2.55	0.50
19:CV:65:ASN:O	49:D4:59:PHE:HE2	1.95	0.50
20:CW:26:ASN:CB	20:CW:71:THR:HG23	2.42	0.50
20:CW:49:ALA:CB	20:CW:99:LEU:HD22	2.42	0.50
24:DA:592:G:N2	53:D8:4:MET:CE	2.73	0.50
24:DA:621:A:H2’	24:DA:622:G:H5’	1.94	0.50
24:DA:844:C:H3’	24:DA:845:G:C8	2.46	0.50
24:DA:1174:A:C2	24:DA:1175:U:H1’	2.46	0.50
24:DA:1275:A:H4’	24:DA:1276:A:O5’	2.10	0.50
24:DA:1946:U:N3	24:DA:1947:C:C5	2.79	0.50
24:DA:2110:G:H4’	24:DA:2111:C:OP1	2.12	0.50
24:DA:2143:C:H2’	24:DA:2144:U:O4’	2.12	0.50
24:DA:2572:A:C8	27:DE:144:ARG:HB3	2.46	0.50
24:DA:2740:A:N6	24:DA:2764:A:C8	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:46:ALA:HB1	27:DE:80:GLU:HB2	1.94	0.50
28:DF:11:VAL:CG1	28:DF:12:LEU:N	2.75	0.50
29:DG:49:ASP:OD1	29:DG:51:ARG:HG3	2.12	0.50
29:DG:83:ARG:HH11	29:DG:83:ARG:HG2	1.76	0.50
32:DM:137:LYS:HG3	32:DM:138:LEU:H	1.77	0.50
35:DP:36:ALA:HB1	35:DP:127:ILE:HD12	1.93	0.50
35:DP:108:GLY:O	35:DP:109:VAL:HG23	2.12	0.50
36:D0:28:LEU:CD2	36:D0:114:VAL:HG12	2.41	0.50
37:DQ:35:ILE:CD1	37:DQ:101:LEU:HD23	2.41	0.50
37:DQ:52:SER:O	37:DQ:56:LEU:CD2	2.60	0.50
37:DQ:83:LYS:HG2	37:DQ:109:GLY:HA2	1.90	0.50
39:D1:76:TYR:CD2	39:D1:76:TYR:C	2.90	0.50
39:D1:92:ARG:NH1	39:D1:95:LEU:HD11	2.26	0.50
41:DS:70:TYR:N	41:DS:70:TYR:CD2	2.75	0.50
42:DT:47:PHE:O	42:DT:48:LYS:C	2.55	0.50
43:DU:101:LYS:O	43:DU:102:CYS:SG	2.66	0.50
45:D3:51:VAL:CG2	45:D3:81:VAL:HG23	2.42	0.50
48:DX:7:LYS:CB	48:DX:34:GLU:HG2	2.41	0.50
52:D7:12:ARG:HG3	52:D7:12:ARG:NH1	2.27	0.50
1:AA:255:G:H2'	1:AA:256:U:C6	2.47	0.49
1:AA:321:A:N7	1:AA:328:C:C2	2.80	0.49
1:AA:1057:G:H4'	3:AF:196:LEU:HA	1.93	0.49
1:AA:1320:C:H1'	19:AV:73:GLU:HG3	1.92	0.49
1:AA:1324:A:O4'	1:AA:1362:C:H4'	2.12	0.49
1:AA:1534:A:H2'	1:AA:1535:C:C6	2.47	0.49
3:AF:16:ARG:N	3:AF:16:ARG:NH1	2.57	0.49
3:AF:136:GLN:HA	3:AF:139:GLN:HB3	1.93	0.49
8:AK:89:PRO:HA	8:AK:92:ARG:HH11	1.76	0.49
8:AK:91:ARG:HB2	12:AO:7:ILE:HG13	1.94	0.49
9:AL:26:VAL:HG22	9:AL:60:ASP:HA	1.94	0.49
9:AL:91:ASP:C	9:AL:93:ARG:H	2.20	0.49
11:AN:122:LYS:O	11:AN:124:LYS:N	2.45	0.49
18:AU:75:ILE:C	18:AU:77:GLY:H	2.20	0.49
19:AV:64:GLU:CD	19:AV:65:ASN:H	2.20	0.49
20:AW:36:LEU:CD1	20:AW:55:ILE:HG23	2.41	0.49
24:BA:78:A:H2'	24:BA:79:G:C8	2.47	0.49
24:BA:84:A:OP1	43:BU:8:LYS:HD3	2.11	0.49
24:BA:283:A:H4'	24:BA:284:U:OP2	2.12	0.49
24:BA:311:A:N6	24:BA:328:U:C5	2.80	0.49
24:BA:638:G:H2'	24:BA:639:U:C6	2.47	0.49
24:BA:822:U:H2'	24:BA:823:G:C8	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1858:G:O2'	24:BA:1884:A:N6	2.44	0.49
24:BA:1887:C:C3'	24:BA:1888:G:H5"	2.40	0.49
24:BA:1926:U:C6	24:BA:1928:A:OP2	2.65	0.49
24:BA:2556:C:H2'	24:BA:2557:G:O4'	2.12	0.49
24:BA:2859:G:H3'	24:BA:2859:G:H8	1.77	0.49
25:BB:55:U:C1'	29:BG:29:TRP:HE1	2.25	0.49
26:BD:14:ARG:HG2	26:BD:15:PHE:CE2	2.47	0.49
26:BD:260:ARG:HH12	26:BD:264:LYS:HD3	1.76	0.49
29:BG:120:LEU:HB3	29:BG:131:TYR:OH	2.12	0.49
31:BK:104:GLN:HG2	31:BK:105:HIS:HD2	1.77	0.49
34:BO:56:SER:O	34:BO:57:THR:CB	2.59	0.49
34:BO:56:SER:C	34:BO:57:THR:HG22	2.37	0.49
35:BP:59:ARG:O	35:BP:60:ARG:CB	2.59	0.49
35:BP:141:GLN:HG3	44:BV:73:GLN:CD	2.36	0.49
36:B0:106:GLY:O	36:B0:107:ASP:CB	2.59	0.49
38:BR:48:ILE:H	38:BR:48:ILE:HD12	1.77	0.49
39:B1:92:ARG:CD	39:B1:94:ASN:HB3	2.38	0.49
50:B5:46:CYS:SG	50:B5:48:GLU:CG	2.99	0.49
1:CA:37:U:O2'	1:CA:500:G:H4'	2.12	0.49
1:CA:179:A:H2'	1:CA:180:U:C6	2.43	0.49
1:CA:747:C:H2'	1:CA:748:C:O4'	2.11	0.49
1:CA:1024:G:C2'	1:CA:1025:U:H5"	2.42	0.49
1:CA:1280:A:H1'	10:CM:41:PRO:HG3	1.94	0.49
1:CA:1352:C:P	21:CX:3:LYS:HZ1	2.34	0.49
3:CF:34:LEU:HD23	3:CF:34:LEU:C	2.37	0.49
3:CF:35:GLU:O	3:CF:39:ILE:HG13	2.12	0.49
4:CG:150:GLU:C	4:CG:152:SER:H	2.20	0.49
7:CJ:50:ILE:HA	7:CJ:54:THR:HG22	1.94	0.49
7:CJ:148:ASN:HD21	22:CD:40:C:H4'	1.76	0.49
8:CK:83:ILE:HB	8:CK:137:VAL:HG13	1.93	0.49
8:CK:84:ARG:O	8:CK:135:CYS:HB2	2.12	0.49
8:CK:95:VAL:HB	8:CK:99:GLU:O	2.12	0.49
11:CN:25:TYR:N	11:CN:25:TYR:CD1	2.80	0.49
21:CX:2:GLY:O	21:CX:4:GLY:N	2.45	0.49
24:DA:95:G:O2'	47:DW:48:HIS:ND1	2.45	0.49
24:DA:310:A:O2'	24:DA:311:A:H2'	2.12	0.49
24:DA:405:U:C4'	24:DA:406:G:OP2	2.60	0.49
24:DA:1053:C:H3'	24:DA:1054:A:H5"	1.93	0.49
24:DA:1085:A:O2'	24:DA:1086:A:P	2.70	0.49
24:DA:1510:A:OP1	24:DA:1511:A:H5'	2.12	0.49
24:DA:1557:C:OP2	24:DA:1558:A:H2'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1583:A:H5'	24:DA:1585:C:C5	2.47	0.49
24:DA:1655:A:O2'	27:DE:115:GLY:HA2	2.12	0.49
24:DA:1687:G:H2'	24:DA:1688:U:C6	2.47	0.49
24:DA:2563:U:H2'	24:DA:2565:A:OP2	2.12	0.49
26:DD:218:ARG:HB3	26:DD:219:PRO:HD2	1.94	0.49
28:DF:53:THR:C	28:DF:55:GLY:N	2.68	0.49
33:DN:105:GLU:O	33:DN:108:GLU:HB2	2.12	0.49
34:DO:88:LEU:C	34:DO:88:LEU:HD23	2.37	0.49
35:DP:79:LEU:O	35:DP:80:GLU:OE1	2.31	0.49
41:DS:1:MET:HE2	41:DS:2:GLU:H	1.77	0.49
46:DZ:81:LYS:O	46:DZ:82:LEU:O	2.30	0.49
49:D4:9:LEU:H	49:D4:27:THR:CG2	2.25	0.49
50:D5:50:GLY:O	50:D5:51:TYR:CB	2.59	0.49
51:D6:44:ARG:O	51:D6:45:LYS:CB	2.60	0.49
22:CB:49:C:C2'	22:CB:50:G:OP2	2.60	0.49
1:AA:191(F):U:O2'	1:AA:191:G:H5'	2.12	0.49
1:AA:197:A:O2'	1:AA:198:G:OP2	2.30	0.49
1:AA:485:G:C2'	1:AA:486:U:OP2	2.61	0.49
1:AA:746:A:H2'	1:AA:747:C:C6	2.47	0.49
1:AA:908:A:H2'	1:AA:909:A:H8	1.77	0.49
1:AA:1208:C:H2'	1:AA:1209:C:O4'	2.12	0.49
1:AA:1324:A:H4'	1:AA:1362:C:H4'	1.95	0.49
1:AA:1453:G:H2'	1:AA:1454:G:OP1	2.11	0.49
1:AA:1519:A:H3'	1:AA:1520:G:C5'	2.40	0.49
2:AE:71:VAL:HB	2:AE:164:VAL:HG22	1.94	0.49
2:AE:138:LEU:O	2:AE:141:GLU:HB3	2.11	0.49
3:AF:131:ARG:O	3:AF:131:ARG:HG3	2.12	0.49
3:AF:173:VAL:HG12	3:AF:175:LEU:HD21	1.92	0.49
4:AG:68:TYR:CD2	4:AG:97:LEU:HD22	2.46	0.49
7:AJ:113:GLU:CB	7:AJ:118:VAL:HG23	2.35	0.49
10:AM:50:ILE:O	10:AM:52:GLY:N	2.45	0.49
15:AR:7:GLU:O	15:AR:10:LYS:HB3	2.12	0.49
15:AR:24:SER:O	15:AR:28:GLN:HG3	2.12	0.49
24:BA:483:A:H5'	43:BU:49:VAL:HG22	1.94	0.49
24:BA:654(S):G:C2	24:BA:654(T):A:C4	3.00	0.49
24:BA:1047:G:O2'	24:BA:1111:A:C2	2.65	0.49
24:BA:1342:A:C6	24:BA:1397:U:C6	3.00	0.49
24:BA:1929:G:H5"	24:BA:1930:G:OP1	2.12	0.49
24:BA:2024:G:O2'	24:BA:2025:C:H5'	2.12	0.49
24:BA:2312:U:OP1	29:BG:73:ALA:HA	2.11	0.49
24:BA:2348:U:O4	24:BA:2382:G:C2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:28:C:O2'	25:BB:29:A:H5'	2.12	0.49
25:BB:81:G:N7	25:BB:96:G:N3	2.59	0.49
26:BD:200:ASP:O	26:BD:202:LYS:N	2.45	0.49
28:BF:21:ALA:HB3	28:BF:23:ASP:OD2	2.12	0.49
29:BG:101:ILE:HD12	29:BG:101:ILE:C	2.37	0.49
29:BG:120:LEU:O	29:BG:180:PHE:HD2	1.94	0.49
29:BG:138:GLN:HG2	29:BG:138:GLN:O	2.10	0.49
30:BH:42:ARG:HG3	30:BH:44:VAL:HG13	1.93	0.49
30:BH:49:VAL:O	30:BH:50:VAL:C	2.55	0.49
31:BK:144:VAL:O	31:BK:145:VAL:O	2.29	0.49
35:BP:1:MET:CE	35:BP:48:GLU:HG2	2.42	0.49
37:BQ:88:ASP:OD2	37:BQ:89:ARG:N	2.45	0.49
47:BW:34:GLU:HA	47:BW:37:PHE:CD1	2.46	0.49
1:CA:50:A:N6	1:CA:361:G:H4'	2.27	0.49
1:CA:186(C):G:H2'	1:CA:186(D):C:H6	1.76	0.49
1:CA:595:G:H1'	1:CA:596:C:C5	2.47	0.49
1:CA:676:A:O2'	1:CA:677:U:H5'	2.12	0.49
1:CA:815:A:O2'	1:CA:1527:C:O4'	2.30	0.49
1:CA:831:U:H2'	1:CA:832:C:H6	1.77	0.49
1:CA:849:C:O2'	1:CA:850:U:H5'	2.12	0.49
1:CA:924:C:O2'	1:CA:1502:A:N6	2.44	0.49
2:CE:16:HIS:HB3	2:CE:210:SER:CB	2.42	0.49
2:CE:172:ILE:H	2:CE:172:ILE:CD1	2.19	0.49
2:CE:207:ALA:O	2:CE:209:ARG:N	2.45	0.49
5:CH:41:VAL:CG1	5:CH:112:LEU:O	2.60	0.49
8:CK:29:SER:CB	8:CK:32:LYS:HG3	2.28	0.49
9:CL:23:ASN:N	9:CL:23:ASN:HD22	2.08	0.49
10:CM:22:LYS:NZ	10:CM:23:ILE:HG12	2.27	0.49
20:CW:10:LEU:C	20:CW:12:ALA:H	2.20	0.49
22:CD:31:G:H2'	22:CD:32:C:H6	1.76	0.49
24:DA:386:G:H3'	24:DA:388:G:N2	2.28	0.49
24:DA:752:A:HO2'	24:DA:753:C:P	2.33	0.49
24:DA:813:U:H2'	24:DA:814:C:H6	1.75	0.49
24:DA:1020:A:H4'	24:DA:1021:A:O5'	2.12	0.49
24:DA:1104:C:O5'	24:DA:1104:C:H6	1.95	0.49
24:DA:1173:G:H4'	24:DA:1174:A:C8	2.47	0.49
24:DA:1983:C:O2'	24:DA:1984:G:H5'	2.11	0.49
24:DA:1996:C:H4'	24:DA:1997:G:O5'	2.12	0.49
24:DA:2311:A:C3'	24:DA:2312:U:C5	2.92	0.49
24:DA:2572:A:O2'	24:DA:2573:C:P	2.70	0.49
25:DB:50:G:OP1	37:DQ:63:THR:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:153:LYS:CB	30:DH:154:PRO:CD	2.69	0.49
32:DM:6:PRO:HG2	32:DM:43:THR:OG1	2.11	0.49
35:DP:2:LEU:HD23	35:DP:2:LEU:N	2.27	0.49
37:DQ:89:ARG:O	37:DQ:90:GLY:C	2.55	0.49
38:DR:39:ARG:CG	38:DR:40:THR:H	2.22	0.49
41:DS:28:SER:C	41:DS:30:GLU:N	2.69	0.49
43:DU:19:LYS:O	43:DU:19:LYS:CG	2.60	0.49
43:DU:44:ILE:CG1	43:DU:45:VAL:N	2.70	0.49
44:DV:124:ILE:O	44:DV:124:ILE:HG23	2.11	0.49
46:DZ:67:ILE:N	46:DZ:68:PRO:CD	2.76	0.49
49:D4:36:CYS:O	49:D4:39:CYS:CB	2.55	0.49
51:D6:7:ILE:C	51:D6:9:LEU:N	2.65	0.49
1:AA:468:A:H2'	1:AA:474:G:C5'	2.42	0.49
1:AA:1519:A:C3'	1:AA:1520:G:H5'	2.42	0.49
1:AA:1528:U:O2'	1:AA:1529:G:H3'	2.12	0.49
2:AE:64:ARG:O	2:AE:65:GLY:C	2.52	0.49
3:AF:27:LYS:HE2	3:AF:27:LYS:CA	2.36	0.49
3:AF:33:LEU:O	3:AF:36:ASP:HB2	2.12	0.49
3:AF:206:GLU:HA	3:AF:206:GLU:OE1	2.11	0.49
3:AF:206:GLU:O	3:AF:207:VAL:HB	2.12	0.49
4:AG:15:GLU:HG3	4:AG:63:LYS:HE2	1.94	0.49
4:AG:76:ARG:NH2	4:AG:80:GLU:OE1	2.38	0.49
5:AH:140:ARG:HG2	5:AH:140:ARG:O	2.12	0.49
11:AN:110:ASP:HB3	18:AU:85:LEU:CD1	2.41	0.49
13:AP:83:ASP:CG	13:AP:84:ILE:N	2.65	0.49
17:AT:75:ARG:HD2	17:AT:75:ARG:C	2.37	0.49
24:BA:404:C:H1'	24:BA:406:G:C8	2.47	0.49
24:BA:1131:G:H4'	32:BM:82:LEU:HB2	1.95	0.49
24:BA:1462:C:H4'	24:BA:2703:C:H5'	1.94	0.49
24:BA:1899:G:N2	24:BA:1902:C:C5	2.80	0.49
24:BA:2146:C:H4'	24:BA:2147:G:O5'	2.12	0.49
24:BA:2683:C:H2'	24:BA:2684:U:C6	2.44	0.49
24:BA:2745:C:O2'	30:BH:142:GLY:HA3	2.12	0.49
25:BB:13:A:H5"	25:BB:15:A:N6	2.27	0.49
25:BB:110:G:H2'	25:BB:111:U:H5'	1.95	0.49
29:BG:135:LEU:HD11	29:BG:157:ILE:HD12	1.95	0.49
32:BM:84:LYS:C	32:BM:85:ILE:HG13	2.38	0.49
36:B0:76:VAL:CG1	36:B0:77:ARG:N	2.75	0.49
38:BR:23:ARG:O	38:BR:24:PRO:C	2.55	0.49
38:BR:53:ARG:O	38:BR:53:ARG:HG3	2.12	0.49
38:BR:102:ILE:HB	38:BR:110:ILE:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:B2:49:THR:CG2	40:B2:50:PRO:HD3	2.42	0.49
40:B2:70:ILE:HG22	40:B2:70:ILE:O	2.12	0.49
41:BS:70:TYR:CE2	41:BS:108:GLY:O	2.65	0.49
44:BV:56:VAL:HG13	44:BV:69:THR:O	2.12	0.49
44:BV:117:LEU:C	44:BV:118:GLN:HE21	2.20	0.49
1:CA:109:A:H5'	1:CA:110:C:OP2	2.13	0.49
1:CA:234:C:H2'	1:CA:235:C:C6	2.47	0.49
1:CA:322:C:H6	1:CA:322:C:O5'	1.95	0.49
1:CA:377:G:OP1	16:CS:5:ARG:NH1	2.45	0.49
1:CA:823:G:O2'	1:CA:824:C:H5'	2.12	0.49
1:CA:1032:A:N7	1:CA:1032(A):G:H1'	2.27	0.49
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.77	0.49
1:CA:1128:C:H2'	1:CA:1139:G:O6	2.12	0.49
2:CE:68:ILE:O	2:CE:91:PRO:HD2	2.13	0.49
7:CJ:50:ILE:HG21	7:CJ:58:PRO:HA	1.93	0.49
8:CK:61:VAL:HG12	8:CK:63:LEU:HD13	1.94	0.49
12:CO:27:LEU:C	12:CO:29:GLY:H	2.20	0.49
12:CO:48:PRO:O	12:CO:49:ASN:ND2	2.44	0.49
13:CP:66:LEU:C	13:CP:70:LEU:HB2	2.37	0.49
24:DA:270(K):C:H2'	24:DA:270(L):U:H5"	1.93	0.49
24:DA:1497:U:C5'	24:DA:1498:C:OP2	2.60	0.49
24:DA:1534:G:C8	24:DA:1534:G:H5"	2.47	0.49
24:DA:1819:A:H3'	26:DD:178:PRO:HB2	1.94	0.49
24:DA:1893:C:C5	24:DA:1894:C:C5	3.00	0.49
24:DA:2126:A:H1'	24:DA:2127:G:O4'	2.12	0.49
26:DD:2:ALA:CB	26:DD:20:ASP:HB3	2.42	0.49
26:DD:76:PRO:HA	26:DD:118:VAL:HG23	1.93	0.49
26:DD:186:HIS:CD2	26:DD:188:GLU:H	2.20	0.49
27:DE:37:ARG:HE	27:DE:37:ARG:H	1.59	0.49
27:DE:61:ARG:CB	27:DE:62:PRO:CD	2.90	0.49
30:DH:7:LEU:C	30:DH:7:LEU:HD12	2.37	0.49
32:DM:46:VAL:O	32:DM:47:ALA:CB	2.57	0.49
32:DM:73:THR:CG2	32:DM:82:LEU:HD11	2.43	0.49
33:DN:47:ILE:CG1	33:DN:48:PRO:HD2	2.42	0.49
40:D2:3:ALA:HB3	40:D2:14:VAL:HG23	1.92	0.49
43:DU:16:ALA:O	43:DU:21:LYS:HD3	2.11	0.49
43:DU:44:ILE:CG1	43:DU:45:VAL:H	2.24	0.49
44:DV:57:ILE:HG22	44:DV:58:VAL:N	2.28	0.49
44:DV:69:THR:HG22	44:DV:90:VAL:HG22	1.95	0.49
46:DZ:93:GLU:O	46:DZ:97:LEU:HD11	2.12	0.49
53:D8:10:ALA:O	53:D8:14:VAL:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:5:U:H2'	1:AA:5:U:O2	2.11	0.49
1:AA:37:U:O2'	1:AA:38:G:H5'	2.12	0.49
1:AA:224:C:H2'	1:AA:225:C:H6	1.76	0.49
1:AA:261:U:C5	20:AW:79:ARG:NH1	2.80	0.49
1:AA:1020:U:H2'	1:AA:1021:G:H5"	1.94	0.49
1:AA:1269:A:N1	1:AA:1312:G:O2'	2.40	0.49
1:AA:1324:A:O2'	1:AA:1362:C:H5"	2.12	0.49
1:AA:1365:G:HO2'	1:AA:1366:C:H5'	1.76	0.49
2:AE:113:HIS:C	2:AE:115:LEU:H	2.20	0.49
2:AE:217:ARG:CZ	2:AE:217:ARG:HB2	2.43	0.49
3:AF:37:GLN:O	3:AF:41:GLY:N	2.45	0.49
3:AF:132:ARG:O	3:AF:136:GLN:HG3	2.13	0.49
5:AH:152:ARG:HH11	5:AH:152:ARG:CG	2.20	0.49
8:AK:86:ILE:HG13	8:AK:133:LEU:HD22	1.95	0.49
9:AL:79:LEU:HD11	9:AL:83:ARG:NE	2.27	0.49
12:AO:23:LYS:H	12:AO:23:LYS:CD	2.26	0.49
13:AP:10:PRO:O	13:AP:45:VAL:HG11	2.11	0.49
16:AS:76:GLN:HG2	16:AS:76:GLN:O	2.11	0.49
18:AU:31:LEU:HD11	18:AU:65:ILE:HD13	1.93	0.49
24:BA:194:G:O2'	24:BA:195:A:H5'	2.12	0.49
24:BA:993:G:H1'	40:B2:89:GLN:OE1	2.11	0.49
24:BA:1021:A:C8	24:BA:1021:A:C3'	2.95	0.49
24:BA:1182:A:H2'	24:BA:1183:G:C8	2.47	0.49
24:BA:1252:G:HO2'	24:BA:1253:A:C4'	2.25	0.49
24:BA:1538:G:O2'	24:BA:1539:G:H5'	2.13	0.49
24:BA:1678:G:N2	24:BA:1989:G:H1	2.10	0.49
24:BA:2318:G:H1	37:BQ:2:ALA:HA	1.77	0.49
27:BE:201:THR:HG22	27:BE:202:LYS:N	2.21	0.49
28:BF:63:LYS:CE	28:BF:67:GLN:HB3	2.40	0.49
28:BF:107:LYS:HB3	28:BF:206:ILE:HG22	1.95	0.49
31:BK:110:ASP:O	31:BK:111:PRO:C	2.54	0.49
32:BM:70:LYS:HE2	32:BM:72:TYR:HE1	1.77	0.49
34:BO:42:SER:O	34:BO:43:GLY:C	2.55	0.49
35:BP:61:GLY:C	35:BP:63:LYS:H	2.18	0.49
36:B0:38:VAL:HG22	36:B0:112:ALA:HB2	1.94	0.49
37:BQ:40:ILE:HG22	37:BQ:41:ASP:N	2.26	0.49
37:BQ:88:ASP:O	37:BQ:89:ARG:CB	2.59	0.49
40:B2:77:ALA:O	40:B2:78:LYS:HG2	2.13	0.49
45:B3:51:VAL:CG2	45:B3:81:VAL:HG23	2.42	0.49
49:B4:59:PHE:O	49:B4:63:TYR:HB3	2.12	0.49
1:CA:390:C:H4'	16:CS:28:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:464:G:H21	1:CA:468:A:H62	1.59	0.49
1:CA:530:G:HO2'	1:CA:531:U:P	2.36	0.49
1:CA:998:G:C2'	1:CA:998(A):C:H5'	2.43	0.49
1:CA:1054:C:O2	1:CA:1054:C:C2'	2.61	0.49
1:CA:1441:G:N2	1:CA:1460:A:N7	2.56	0.49
3:CF:178:LEU:N	3:CF:178:LEU:HD22	2.27	0.49
4:CG:198:VAL:HG12	4:CG:199:ASN:H	1.74	0.49
5:CH:12:LEU:HD23	5:CH:13:ILE:H	1.76	0.49
7:CJ:144:MET:HE1	22:CD:30:G:H21	1.76	0.49
8:CK:91:ARG:HH11	8:CK:91:ARG:CG	2.22	0.49
11:CN:53:SER:C	11:CN:55:LYS:H	2.20	0.49
13:CP:14:ARG:HG3	13:CP:16:ASP:OD2	2.13	0.49
13:CP:102:ARG:O	13:CP:102:ARG:HG3	2.11	0.49
16:CS:59:TRP:HA	16:CS:59:TRP:HE3	1.76	0.49
24:DA:451:C:H4'	28:DF:52:LYS:HZ2	1.76	0.49
24:DA:1475:G:O2'	24:DA:1476:C:H5'	2.12	0.49
24:DA:2033:A:H4'	24:DA:2034:U:OP1	2.12	0.49
24:DA:2346:A:O2'	24:DA:2347:C:P	2.71	0.49
24:DA:2809:A:O2'	24:DA:2810:A:H5'	2.13	0.49
26:DD:2:ALA:CB	26:DD:20:ASP:CB	2.90	0.49
28:DF:144:LYS:C	28:DF:146:ALA:H	2.20	0.49
39:D1:64:ARG:CG	39:D1:64:ARG:NH2	2.70	0.49
41:DS:29:LEU:O	41:DS:29:LEU:HD23	2.13	0.49
46:DZ:19:GLN:HA	46:DZ:19:GLN:OE1	2.12	0.49
52:D7:46:VAL:HG12	52:D7:47:ARG:N	2.27	0.49
1:AA:254:G:OP1	17:AT:67:LYS:O	2.30	0.49
1:AA:406:G:H1'	1:AA:495:A:N1	2.27	0.49
1:AA:423:G:H2'	1:AA:424:G:O4'	2.12	0.49
1:AA:812:C:O2'	1:AA:813:U:P	2.71	0.49
1:AA:860:A:H4'	8:AK:75:ARG:HH12	1.76	0.49
1:AA:1052:U:H5"	1:AA:1053:G:OP2	2.13	0.49
1:AA:1418:A:H5"	1:AA:1419:G:OP2	2.12	0.49
1:AA:1506:U:O2'	1:AA:1507:A:OP1	2.27	0.49
2:AE:153:ARG:O	2:AE:153:ARG:HD3	2.12	0.49
2:AE:185:ILE:HA	2:AE:199:TYR:O	2.12	0.49
3:AF:174:PRO:HB3	3:AF:177:THR:HG22	1.93	0.49
4:AG:96:LEU:HD12	4:AG:139:ARG:NH2	2.28	0.49
5:AH:19:MET:HA	5:AH:24:ARG:HA	1.93	0.49
6:AI:72:VAL:CG1	6:AI:73:ASN:N	2.76	0.49
7:AJ:80:VAL:HG13	7:AJ:85:TYR:HE1	1.77	0.49
9:AL:32:ASP:C	9:AL:34:ASN:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:51:ARG:HG3	9:AL:51:ARG:NH1	2.27	0.49
10:AM:33:GLN:H	10:AM:75:ILE:CG1	2.24	0.49
11:AN:13:GLN:CG	11:AN:76:GLY:C	2.84	0.49
12:AO:53:ARG:NH1	12:AO:92:ASP:OD2	2.46	0.49
16:AS:8:ARG:CZ	16:AS:15:PRO:HG3	2.42	0.49
24:BA:9:U:H3	24:BA:2629:A:H61	1.61	0.49
24:BA:34:C:O2'	24:BA:35:G:P	2.70	0.49
24:BA:49:A:H1'	24:BA:51:G:C4	2.47	0.49
24:BA:76:C:H1'	47:BW:62:THR:HG21	1.93	0.49
24:BA:95:G:O2'	47:BW:48:HIS:HB3	2.12	0.49
24:BA:198:C:H5'	24:BA:2244:U:OP1	2.13	0.49
24:BA:614:U:C5'	24:BA:615:G:OP1	2.60	0.49
24:BA:986:C:C2'	24:BA:987:G:H5'	2.43	0.49
24:BA:1114:G:H2'	24:BA:1115:G:H8	1.78	0.49
24:BA:1252:G:O2'	24:BA:1253:A:O4'	2.30	0.49
24:BA:1697:G:C3'	24:BA:1698:A:H5"	2.38	0.49
24:BA:2111:C:OP1	24:BA:2111:C:O4'	2.30	0.49
24:BA:2468:G:H22	24:BA:2481:G:H2'	1.77	0.49
24:BA:2657:A:C2'	24:BA:2658:C:H5'	2.42	0.49
25:BB:31:C:N4	37:BQ:32:LEU:HD13	2.26	0.49
25:BB:87:G:H2'	25:BB:88:C:H5"	1.94	0.49
29:BG:34:LEU:HD21	29:BG:159:VAL:HG23	1.95	0.49
30:BH:59:ARG:O	30:BH:61:HIS:N	2.46	0.49
33:BN:2:ILE:HD11	33:BN:82:ASN:ND2	2.09	0.49
33:BN:4:PRO:O	33:BN:5:GLN:CB	2.61	0.49
33:BN:23:ARG:HH11	33:BN:23:ARG:CG	2.22	0.49
33:BN:99:PHE:CD2	33:BN:99:PHE:N	2.81	0.49
34:BO:13:ASN:C	34:BO:15:ARG:N	2.69	0.49
37:BQ:104:GLY:C	37:BQ:106:ARG:N	2.70	0.49
39:B1:92:ARG:HB3	40:B2:11:GLN:HE22	1.76	0.49
41:BS:55:ALA:C	41:BS:57:ASN:H	2.21	0.49
41:BS:62:HIS:O	41:BS:63:ASP:O	2.31	0.49
44:BV:31:ARG:HH11	44:BV:31:ARG:HG2	1.77	0.49
44:BV:71:VAL:HA	44:BV:88:PHE:HA	1.94	0.49
53:B8:39:LYS:O	53:B8:40:GLU:HB2	2.11	0.49
1:CA:119:A:C5	1:CA:240:C:C4	3.00	0.49
1:CA:197:A:N7	1:CA:221:C:H4'	2.28	0.49
1:CA:539:A:OP1	12:CO:114:LYS:HE2	2.12	0.49
1:CA:689:C:H2'	1:CA:690:G:C5'	2.40	0.49
1:CA:954:G:H2'	1:CA:955:U:H6	1.76	0.49
1:CA:1025:U:O2'	1:CA:1026:G:H8	1.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1297:C:O2'	1:CA:1298:C:P	2.71	0.49
4:CG:68:TYR:O	4:CG:69:GLY:C	2.55	0.49
4:CG:118:ARG:NH2	4:CG:136:PRO:HB2	2.28	0.49
9:CL:43:ALA:HA	9:CL:74:ILE:HD13	1.94	0.49
9:CL:113:LYS:H	9:CL:119:ALA:HA	1.77	0.49
13:CP:23:TYR:HB3	13:CP:67:GLU:CG	2.39	0.49
14:CQ:40:CYS:SG	14:CQ:43:CYS:N	2.75	0.49
16:CS:83:GLU:HA	16:CS:83:GLU:OE2	2.12	0.49
17:CT:3:LYS:HD2	17:CT:60:ILE:HD11	1.95	0.49
24:DA:616:A:O2'	24:DA:617:G:OP1	2.25	0.49
24:DA:989:G:N7	48:DX:13:ILE:CD1	2.75	0.49
24:DA:1011:G:O2'	24:DA:1013:C:H5"	2.12	0.49
24:DA:1249:U:C2'	24:DA:1249:U:O2	2.52	0.49
24:DA:2193:G:H2'	24:DA:2194:G:H8	1.78	0.49
24:DA:2495:G:H5"	35:DP:81:VAL:CG1	2.43	0.49
24:DA:2818:G:O2'	24:DA:2819:G:H5'	2.13	0.49
24:DA:2870:C:H2'	24:DA:2871:C:H5'	1.95	0.49
26:DD:44:ASN:H	26:DD:44:ASN:ND2	1.97	0.49
26:DD:238:GLY:O	26:DD:239:ARG:HB2	2.11	0.49
29:DG:121:ASN:ND2	29:DG:123:ASN:N	2.60	0.49
32:DM:82:LEU:HD12	32:DM:83:LYS:N	2.27	0.49
32:DM:129:PRO:C	32:DM:131:GLN:H	2.20	0.49
34:DO:81:GLN:CD	34:DO:106:LEU:O	2.55	0.49
37:DQ:99:LYS:O	37:DQ:101:LEU:N	2.45	0.49
38:DR:57:PHE:O	38:DR:59:THR:N	2.46	0.49
46:DZ:40:ARG:NH2	46:DZ:42:GLN:HG2	2.27	0.49
49:D4:47:GLN:O	49:D4:48:ARG:CB	2.61	0.49
53:D8:16:ILE:CD1	53:D8:57:ARG:HG2	2.42	0.49
53:D8:58:ILE:O	53:D8:61:LEU:HD12	2.13	0.49
1:AA:209:U:H2'	1:AA:209:U:O2	2.11	0.49
1:AA:485:G:H2'	1:AA:486:U:OP2	2.11	0.49
1:AA:551:U:O2'	12:AO:86:ARG:HD2	2.12	0.49
1:AA:1055:A:N7	1:AA:1200:C:N4	2.60	0.49
1:AA:1217:C:H2'	1:AA:1218:C:O4'	2.12	0.49
1:AA:1245:A:H2'	1:AA:1246:C:O4'	2.11	0.49
1:AA:1301:U:O2	1:AA:1301:U:C2'	2.52	0.49
1:AA:1365:G:C5	1:AA:1366:C:C5	3.01	0.49
1:AA:1422:G:O3'	33:BN:49:ARG:NH1	2.45	0.49
3:AF:200:ALA:C	3:AF:201:TYR:CD1	2.91	0.49
4:AG:79:PHE:HE1	4:AG:204:ILE:HD13	1.78	0.49
4:AG:178:VAL:O	4:AG:180:GLY:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AH:48:ALA:HB2	5:AH:57:LYS:HD3	1.95	0.49
5:AH:101:ILE:HD13	5:AH:101:ILE:N	2.11	0.49
7:AJ:79:ARG:HG3	7:AJ:80:VAL:H	1.75	0.49
14:AQ:44:LEU:HD12	14:AQ:44:LEU:C	2.37	0.49
16:AS:69:THR:O	16:AS:73:LEU:HG	2.13	0.49
19:AV:28:LYS:C	19:AV:30:LEU:H	2.21	0.49
24:BA:940:G:H2'	24:BA:941:A:O4'	2.13	0.49
24:BA:1083:U:H2'	24:BA:1085:A:OP2	2.12	0.49
24:BA:1171:G:H3'	24:BA:1171:G:P	2.52	0.49
24:BA:1427:A:H4'	24:BA:1428:C:O4'	2.12	0.49
24:BA:1694:C:O2'	24:BA:1695:G:H5"	2.12	0.49
24:BA:1819:A:H1'	24:BA:1821:A:C6	2.48	0.49
24:BA:2113:U:H5"	24:BA:2114:A:C1'	2.42	0.49
24:BA:2492:U:H2'	24:BA:2493:U:C6	2.47	0.49
24:BA:2707:G:H2'	24:BA:2708:G:C8	2.48	0.49
28:BF:63:LYS:HA	28:BF:76:GLY:O	2.12	0.49
28:BF:162:LEU:HD12	28:BF:162:LEU:H	1.78	0.49
31:BK:51:ILE:C	31:BK:53:ALA:H	2.19	0.49
31:BK:93:THR:O	31:BK:97:ILE:CD1	2.61	0.49
31:BK:93:THR:HG22	31:BK:119:PRO:HB3	1.94	0.49
32:BM:14:VAL:CG1	32:BM:15:LEU:N	2.76	0.49
34:BO:19:VAL:HG22	34:BO:20:GLY:N	2.23	0.49
34:BO:62:LEU:HD22	34:BO:63:PRO:CD	2.43	0.49
34:BO:68:GLN:HA	34:BO:68:GLN:OE1	2.13	0.49
34:BO:112:LEU:HD22	34:BO:112:LEU:C	2.38	0.49
35:BP:78:PRO:O	35:BP:79:LEU:CG	2.61	0.49
37:BQ:106:ARG:HB2	37:BQ:110:LEU:HD11	1.95	0.49
39:B1:27:LEU:O	39:B1:31:SER:HB3	2.12	0.49
40:B2:13:ARG:HH11	40:B2:13:ARG:HG2	1.77	0.49
43:BU:101:LYS:O	43:BU:101:LYS:HE2	2.12	0.49
45:B3:46:LYS:O	45:B3:47:PRO:O	2.30	0.49
48:BX:59:VAL:CG1	48:BX:60:GLU:H	2.06	0.49
53:B8:37:SER:O	53:B8:39:LYS:O	2.31	0.49
1:CA:129(A):G:O2'	1:CA:189:U:H3'	2.13	0.49
1:CA:176:C:O2'	1:CA:177:C:H5'	2.12	0.49
1:CA:278:G:OP2	17:CT:92:ARG:NH2	2.45	0.49
1:CA:465:A:N7	1:CA:467:G:C6	2.81	0.49
1:CA:748:C:H6	1:CA:748:C:OP2	1.96	0.49
1:CA:789:U:H2'	1:CA:791:G:OP2	2.11	0.49
1:CA:794:A:C2	1:CA:795:C:N3	2.81	0.49
1:CA:1024:G:C3'	1:CA:1025:U:H5"	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1317:C:N3	19:CV:37:ARG:NH2	2.61	0.49
6:CI:101:ALA:HA	18:CU:28:GLU:HG2	1.95	0.49
9:CL:23:ASN:H	9:CL:23:ASN:HD22	1.59	0.49
9:CL:79:LEU:O	9:CL:79:LEU:HD13	2.12	0.49
9:CL:110:GLU:O	9:CL:110:GLU:HG3	2.12	0.49
19:CV:9:VAL:O	19:CV:10:PHE:HB3	2.13	0.49
21:CX:6:ARG:C	21:CX:8:THR:H	2.20	0.49
24:DA:251:A:C5	24:DA:252:G:H1'	2.48	0.49
24:DA:619:G:H5"	24:DA:620:G:OP2	2.11	0.49
24:DA:675:A:H4'	28:DF:67:GLN:NE2	2.26	0.49
24:DA:698:C:O2'	24:DA:734:A:N6	2.45	0.49
24:DA:738:G:N2	24:DA:1981:A:N1	2.61	0.49
24:DA:1280:G:H2'	24:DA:1281:G:H5'	1.93	0.49
24:DA:2133:G:N3	24:DA:2158:A:N6	2.60	0.49
26:DD:35:LYS:CG	26:DD:64:ILE:HG22	2.42	0.49
27:DE:17:ASP:N	27:DE:17:ASP:OD2	2.46	0.49
27:DE:179:GLU:O	27:DE:180:ASN:HB2	2.12	0.49
32:DM:95:PRO:O	32:DM:97:ARG:N	2.46	0.49
33:DN:1:MET:HE3	33:DN:67:LYS:HG2	1.95	0.49
34:DO:36:LYS:HB2	34:DO:40:SER:HB3	1.94	0.49
36:D0:96:ARG:NH2	36:D0:117:VAL:HG23	2.27	0.49
38:DR:38:ASN:O	38:DR:39:ARG:O	2.30	0.49
38:DR:57:PHE:O	38:DR:58:ASN:C	2.53	0.49
41:DS:51:LEU:HD23	41:DS:105:VAL:HG11	1.95	0.49
43:DU:84:ARG:HD3	43:DU:86:ARG:NH1	2.28	0.49
44:DV:82:ARG:HG3	44:DV:83:PRO:N	2.27	0.49
50:D5:2:ALA:O	50:D5:3:LYS:CB	2.60	0.49
22:CB:7:G:H5'	22:CB:8:U:OP2	2.12	0.49
22:CB:28:U:H2'	22:CB:29:C:H5'	1.94	0.49
1:AA:509:A:H2	1:AA:544:G:O4'	1.96	0.49
1:AA:881:G:H2'	1:AA:882:C:O4'	2.12	0.49
1:AA:956:U:H2'	1:AA:957:U:O4'	2.12	0.49
1:AA:959:A:C2	1:AA:1222:G:O4'	2.66	0.49
1:AA:991:U:O2	1:AA:993:G:H8	1.95	0.49
1:AA:1104:G:O2'	2:AE:111:ARG:NH2	2.45	0.49
1:AA:1240:U:OP2	7:AJ:116:ALA:HB2	2.12	0.49
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.47	0.49
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.42	0.49
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.78	0.49
1:AA:1440:C:O2'	1:AA:1442:G:N2	2.46	0.49
1:AA:1446:A:C5	38:BR:118:ARG:CZ	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.12	0.49
2:AE:5:ILE:HG13	2:AE:6:THR:N	2.26	0.49
2:AE:16:HIS:HB2	2:AE:17:PHE:CD2	2.47	0.49
3:AF:11:ARG:O	3:AF:12:LEU:C	2.55	0.49
4:AG:32:ALA:C	4:AG:33:MET:O	2.55	0.49
9:AL:3:GLN:O	9:AL:4:TYR:CG	2.66	0.49
9:AL:29:ASN:CG	9:AL:30:GLY:H	2.19	0.49
12:AO:32:PHE:HB3	12:AO:84:LEU:HD21	1.94	0.49
15:AR:3:ILE:HG22	15:AR:38:ARG:NE	2.24	0.49
19:AV:62:ILE:CA	19:AV:66:MET:HE1	2.36	0.49
24:BA:9:U:O4	24:BA:2629:A:C2	2.66	0.49
24:BA:284:U:O2'	24:BA:285:C:H5'	2.13	0.49
24:BA:518:G:H4'	41:BS:18:ARG:NH1	2.21	0.49
24:BA:1204:A:O2'	24:BA:1205:U:H5"	2.13	0.49
24:BA:1314:C:P	24:BA:1332:G:H5'	2.53	0.49
24:BA:1838:C:H5'	24:BA:1839:G:OP1	2.12	0.49
24:BA:2167:U:H3	1:CA:1032:A:H2	1.60	0.49
24:BA:2219:G:C2'	24:BA:2224:G:H5'	2.41	0.49
24:BA:2305:A:H2'	24:BA:2306:C:C4'	2.42	0.49
24:BA:2879:C:C4'	24:BA:2880:C:OP1	2.60	0.49
25:BB:13:A:H4'	25:BB:15:A:C6	2.48	0.49
29:BG:11:TYR:CE2	29:BG:16:ARG:HD3	2.48	0.49
29:BG:94:LEU:HD23	29:BG:94:LEU:N	2.27	0.49
29:BG:123:ASN:C	29:BG:125:PHE:H	2.21	0.49
30:BH:45:VAL:CG2	30:BH:46:GLU:H	2.17	0.49
31:BK:9:LEU:H	31:BK:9:LEU:CD2	2.25	0.49
31:BK:40:THR:O	31:BK:44:LEU:HG	2.12	0.49
31:BK:78:THR:HG22	31:BK:78:THR:O	2.11	0.49
32:BM:99:LEU:O	32:BM:103:VAL:HG23	2.12	0.49
38:BR:106:SER:C	38:BR:107:ASP:OD1	2.56	0.49
38:BR:124:ASP:O	38:BR:128:GLU:HB2	2.11	0.49
41:BS:89:ALA:O	41:BS:90:ARG:HB2	2.13	0.49
42:BT:18:TYR:C	42:BT:20:GLY:N	2.68	0.49
46:BZ:7:ILE:CG2	46:BZ:69:LYS:HG2	2.41	0.49
51:B6:47:THR:HB	51:B6:49:HIS:HE1	1.71	0.49
1:CA:121:C:H5'	1:CA:122:G:OP1	2.12	0.49
1:CA:143:A:N1	1:CA:220:G:O6	2.45	0.49
1:CA:392:G:H2'	1:CA:393:A:C8	2.48	0.49
1:CA:960:U:H4'	1:CA:961:U:H5"	1.94	0.49
3:CF:188:LEU:N	3:CF:188:LEU:CD2	2.76	0.49
4:CG:8:VAL:O	4:CG:11:LEU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:128:VAL:O	4:CG:130:GLY:N	2.45	0.49
8:CK:14:ARG:O	8:CK:14:ARG:HG2	2.12	0.49
9:CL:5:TYR:HA	9:CL:17:VAL:O	2.12	0.49
14:CQ:8:GLU:O	14:CQ:10:ALA:N	2.45	0.49
20:CW:98:PRO:C	20:CW:100:ILE:H	2.19	0.49
23:C1:12:A:C3'	23:C1:13:A:H5"	2.34	0.49
24:DA:118:A:H5'	24:DA:119:A:H8	1.77	0.49
24:DA:273(F):C:C2'	24:DA:274:G:H5"	2.39	0.49
24:DA:662:G:H5"	34:DO:15:ARG:O	2.12	0.49
24:DA:1085:A:C2	24:DA:1086:A:H8	2.30	0.49
24:DA:1115:G:O2'	24:DA:1116:C:H5'	2.11	0.49
24:DA:1289:C:H2'	24:DA:1290:C:H6	1.78	0.49
24:DA:1526:G:O2'	24:DA:1527:G:H5'	2.13	0.49
24:DA:1718:G:C3'	24:DA:1725:G:H5"	2.43	0.49
24:DA:2056:G:N3	24:DA:2056:G:H2'	2.28	0.49
24:DA:2317:C:H3'	24:DA:2318:G:N2	2.26	0.49
24:DA:2414:G:H21	34:DO:67:MET:CE	2.26	0.49
25:DB:69:G:H2'	25:DB:70:C:H6	1.76	0.49
27:DE:119:ARG:HD3	27:DE:160:TYR:CD2	2.47	0.49
27:DE:179:GLU:HA	27:DE:179:GLU:OE1	2.10	0.49
29:DG:107:LEU:HD11	29:DG:178:PHE:CD1	2.48	0.49
30:DH:124:GLU:HB3	30:DH:132:ARG:CG	2.43	0.49
31:DK:35:LEU:O	31:DK:36:ALA:CB	2.61	0.49
31:DK:140:LEU:HD23	31:DK:140:LEU:N	2.28	0.49
33:DN:20:MET:HG2	33:DN:21:CYS:O	2.11	0.49
33:DN:104:ARG:NH1	38:DR:36:GLU:CD	2.71	0.49
34:DO:30:THR:O	34:DO:33:ARG:HB2	2.12	0.49
36:D0:1:MET:O	36:D0:2:ARG:CB	2.60	0.49
40:D2:29:PRO:O	40:D2:61:VAL:HG22	2.12	0.49
42:DT:51:VAL:HG13	42:DT:81:VAL:HG23	1.93	0.49
44:DV:77:ASP:OD2	44:DV:80:ARG:HB2	2.12	0.49
44:DV:111:VAL:HG22	44:DV:111:VAL:O	2.12	0.49
47:DW:16:LEU:O	47:DW:17:SER:CB	2.56	0.49
1:AA:31:G:O2'	1:AA:32:A:O5'	2.28	0.49
1:AA:209:U:O2	1:AA:209:U:C2'	2.60	0.49
1:AA:554:C:H2'	1:AA:555:C:C6	2.48	0.49
1:AA:642:A:N7	8:AK:115:SER:HA	2.28	0.49
1:AA:664:G:P	18:AU:64:ARG:HH21	2.36	0.49
1:AA:750:G:N3	15:AR:23:GLY:CA	2.76	0.49
1:AA:1118:C:O2'	1:AA:1119:C:H5'	2.12	0.49
1:AA:1298:C:H6	7:AJ:114:ARG:NH1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.12	0.49
2:AE:17:PHE:CB	2:AE:42:ILE:HG12	2.42	0.49
2:AE:127:ILE:O	2:AE:130:ARG:HB2	2.13	0.49
6:AI:55:ASP:CB	6:AI:86:ARG:HH12	2.26	0.49
11:AN:99:GLN:OE1	11:AN:105:VAL:HG21	2.13	0.49
16:AS:67:THR:HG22	16:AS:68:ASP:H	1.77	0.49
22:AD:37:A:H2'	22:AD:38:A:H8	1.77	0.49
24:BA:387:U:O2'	24:BA:388:G:OP2	2.25	0.49
24:BA:470:A:H8	24:BA:470:A:H5'	1.78	0.49
24:BA:528:A:N1	24:BA:2042:A:H2'	2.26	0.49
24:BA:1254:A:C5'	24:BA:1255:U:H5'	2.40	0.49
24:BA:1729:A:H2'	24:BA:1730:U:H5"	1.95	0.49
24:BA:2124:G:N2	24:BA:2125:G:H1'	2.27	0.49
24:BA:2537:U:C2	24:BA:2538:C:C5	3.01	0.49
24:BA:2567:G:H2'	24:BA:2568:C:C6	2.48	0.49
24:BA:2593:U:H2'	24:BA:2594:C:H6	1.78	0.49
24:BA:2790:A:C2	24:BA:2791:C:H3'	2.48	0.49
25:BB:76:G:H5'	44:BV:10:ARG:HH22	1.78	0.49
27:BE:186:GLY:O	27:BE:188:VAL:HG12	2.12	0.49
28:BF:78:ILE:C	28:BF:80:ALA:H	2.20	0.49
29:BG:9:ARG:HG2	29:BG:9:ARG:NH1	2.26	0.49
30:BH:9:ILE:CB	30:BH:10:PRO:CA	2.81	0.49
31:BK:79:ILE:HD11	31:BK:140:LEU:HD11	1.95	0.49
33:BN:11:ALA:O	33:BN:98:VAL:HG23	2.12	0.49
33:BN:87:ILE:HG22	33:BN:91:LEU:HA	1.95	0.49
34:BO:114:ILE:HD13	34:BO:130:PHE:HE1	1.78	0.49
39:B1:92:ARG:HG2	39:B1:92:ARG:HH11	1.77	0.49
40:B2:75:PHE:HA	40:B2:81:TYR:HB3	1.93	0.49
43:BU:6:HIS:C	43:BU:7:VAL:HG22	2.38	0.49
43:BU:55:TYR:O	43:BU:56:PRO:C	2.55	0.49
43:BU:72:VAL:O	43:BU:73:ARG:CB	2.60	0.49
44:BV:59:LEU:HD23	44:BV:69:THR:OG1	2.13	0.49
44:BV:118:GLN:CG	44:BV:174:VAL:H	2.25	0.49
45:B3:34:GLY:O	45:B3:35:ASN:C	2.56	0.49
46:BZ:67:ILE:HB	46:BZ:68:PRO:HD3	1.93	0.49
51:B6:24:GLU:OE1	53:B8:34:TRP:HZ3	1.95	0.49
53:B8:52:LYS:N	53:B8:52:LYS:HD2	2.28	0.49
1:CA:191(E):G:H2'	1:CA:191(F):U:C6	2.47	0.49
1:CA:220:G:C2'	1:CA:221:C:H5'	2.43	0.49
1:CA:587:G:N2	1:CA:755:G:C5	2.80	0.49
1:CA:595:G:N1	1:CA:641:U:H2'	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:895:G:H2'	1:CA:896:C:C6	2.47	0.49
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.13	0.49
1:CA:1326:C:H2'	1:CA:1327:C:C6	2.47	0.49
2:CE:7:VAL:CG2	2:CE:8:LYS:HD3	2.43	0.49
2:CE:39:ILE:O	2:CE:41:ILE:HD12	2.12	0.49
4:CG:163:GLU:O	4:CG:165:MET:N	2.46	0.49
5:CH:45:PHE:CD2	5:CH:47:LYS:HD2	2.47	0.49
5:CH:60:TYR:CE1	5:CH:64:ARG:NH2	2.77	0.49
6:CI:72:VAL:HG13	6:CI:73:ASN:N	2.27	0.49
10:CM:63:PHE:CD1	14:CQ:58:LYS:HA	2.35	0.49
12:CO:85:ILE:HD11	12:CO:98:TYR:CB	2.43	0.49
20:CW:37:SER:O	20:CW:41:ILE:HG12	2.12	0.49
24:DA:302:C:O2'	24:DA:303:U:H5'	2.13	0.49
24:DA:345:A:O2'	24:DA:347:A:N7	2.43	0.49
24:DA:414:C:H2'	24:DA:415:A:H8	1.77	0.49
24:DA:671:C:OP1	34:DO:42:SER:O	2.31	0.49
24:DA:924:C:H2'	24:DA:925:C:H6	1.77	0.49
24:DA:1025:G:O2'	24:DA:1026:U:P	2.71	0.49
24:DA:1066:U:O2	24:DA:1066:U:C2'	2.60	0.49
24:DA:1195:G:O2'	24:DA:1196:C:H5'	2.13	0.49
24:DA:1639:U:H2'	24:DA:1640:C:C5'	2.43	0.49
24:DA:1817:G:OP1	26:DD:62:TYR:OH	2.29	0.49
24:DA:1967:C:H2'	24:DA:1968:G:H5'	1.95	0.49
24:DA:2562:U:H1'	33:DN:23:ARG:HH12	1.73	0.49
24:DA:2654:A:C4'	24:DA:2655:G:OP1	2.59	0.49
24:DA:2722:G:H4'	36:D0:4:LEU:HB2	1.95	0.49
26:DD:30:GLU:CD	26:DD:63:ARG:HE	2.21	0.49
26:DD:227:ASN:HB3	26:DD:228:PRO:CD	2.30	0.49
29:DG:3:LEU:HD21	49:D4:25:TYR:CE1	2.48	0.49
29:DG:56:ALA:HB2	29:DG:153:ARG:NE	2.28	0.49
30:DH:98:LEU:HD12	30:DH:102:ALA:O	2.13	0.49
30:DH:103:LEU:HD23	30:DH:103:LEU:H	1.77	0.49
30:DH:153:LYS:O	30:DH:154:PRO:O	2.30	0.49
37:DQ:11:LYS:HG2	37:DQ:11:LYS:O	2.12	0.49
40:D2:79:VAL:HG22	40:D2:79:VAL:O	2.12	0.49
43:DU:61:ILE:HG22	43:DU:62:GLU:N	2.28	0.49
43:DU:81:LYS:HD3	43:DU:97:ARG:HD3	1.94	0.49
43:DU:81:LYS:CD	43:DU:97:ARG:HE	2.20	0.49
43:DU:88:LYS:NZ	43:DU:88:LYS:HA	2.27	0.49
45:D3:53:MET:HE3	45:D3:57:PHE:HA	1.95	0.49
49:D4:1:MET:O	49:D4:1:MET:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:D4:38:LYS:C	49:D4:40:HIS:H	2.07	0.49
51:D6:9:LEU:HD13	51:D6:26:ASN:HD22	1.76	0.49
53:D8:15:LYS:HD3	53:D8:15:LYS:C	2.37	0.49
1:AA:4:U:H5"	1:AA:5:U:OP2	2.13	0.49
1:AA:109:A:C4	1:AA:326:G:C2	3.01	0.49
1:AA:176:C:C2	1:AA:177:C:C5	3.01	0.49
1:AA:450:G:N7	1:AA:481:G:C6	2.81	0.49
1:AA:681:C:O2'	1:AA:682:G:H5'	2.12	0.49
1:AA:1320:C:C1'	19:AV:73:GLU:HG3	2.42	0.49
1:AA:1374:A:C2	1:AA:1375:A:N7	2.80	0.49
2:AE:36:ARG:H	2:AE:41:ILE:HD13	1.76	0.49
2:AE:178:ARG:HH22	8:AK:68:ARG:NH1	2.11	0.49
3:AF:52:LEU:H	3:AF:52:LEU:CD2	2.25	0.49
3:AF:88:ARG:HB2	3:AF:101:LEU:HB3	1.93	0.49
3:AF:116:VAL:O	3:AF:119:ARG:HB3	2.12	0.49
3:AF:206:GLU:HB3	3:AF:207:VAL:H	1.42	0.49
6:AI:9:VAL:HB	6:AI:87:ARG:HB2	1.95	0.49
6:AI:28:ARG:HH11	6:AI:28:ARG:CA	2.26	0.49
9:AL:104:ARG:O	9:AL:104:ARG:HG2	2.13	0.49
13:AP:3:ARG:HA	13:AP:8:GLU:HB2	1.95	0.49
15:AR:17:ARG:CZ	15:AR:77:ARG:NH1	2.76	0.49
16:AS:48:TRP:H	16:AS:48:TRP:CD1	2.29	0.49
24:BA:74:A:O2'	24:BA:75:G:OP2	2.25	0.49
24:BA:327:G:C2	24:BA:328:U:O2	2.66	0.49
24:BA:395:U:H2'	24:BA:396:G:N7	2.28	0.49
24:BA:590:A:H2'	24:BA:591:C:H6	1.73	0.49
24:BA:946:G:H2'	24:BA:947:G:H8	1.78	0.49
24:BA:1013:C:O2'	24:BA:1014:U:H5'	2.13	0.49
24:BA:1047:G:HO2'	24:BA:1111:A:H2	1.56	0.49
24:BA:1694:C:O2'	24:BA:1695:G:P	2.71	0.49
24:BA:1922:G:HO2'	24:BA:1923:U:H5'	1.77	0.49
24:BA:2311:A:C2'	24:BA:2312:U:O5'	2.61	0.49
24:BA:2427:C:H5"	24:BA:2428:G:OP1	2.13	0.49
24:BA:2745:C:C4	24:BA:2746:U:C4	3.01	0.49
24:BA:2884:U:H2'	24:BA:2885:C:C5'	2.42	0.49
26:BD:142:VAL:HG23	26:BD:192:THR:O	2.13	0.49
30:BH:92:ILE:CG2	30:BH:93:GLY:N	2.70	0.49
34:BO:107:LYS:C	34:BO:109:GLY:N	2.70	0.49
35:BP:66:ILE:CG1	35:BP:67:ARG:N	2.76	0.49
37:BQ:101:LEU:HD13	37:BQ:101:LEU:C	2.37	0.49
38:BR:51:ARG:O	38:BR:61:PHE:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:B2:47:VAL:HG22	40:B2:47:VAL:O	2.13	0.49
42:BT:68:ARG:HH11	42:BT:68:ARG:HG3	1.78	0.49
44:BV:54:HIS:CD2	44:BV:101:PRO:HB3	2.48	0.49
44:BV:65:GLN:O	44:BV:67:LEU:N	2.45	0.49
44:BV:93:ASP:O	44:BV:94:GLU:O	2.30	0.49
44:BV:157:LEU:HB3	44:BV:161:VAL:CG1	2.39	0.49
1:CA:243:A:H4'	1:CA:244:U:O5'	2.11	0.49
1:CA:430:A:OP1	4:CG:9:CYS:N	2.46	0.49
1:CA:1127:G:N2	1:CA:1147:C:N4	2.60	0.49
2:CE:69:LEU:HB3	2:CE:162:ILE:HG22	1.95	0.49
2:CE:95:GLN:NE2	2:CE:147:LYS:HE2	2.27	0.49
2:CE:134:GLU:HB3	2:CE:138:LEU:HD12	1.93	0.49
2:CE:193:ASP:OD2	2:CE:196:LEU:CG	2.57	0.49
3:CF:76:VAL:HG21	3:CF:103:VAL:HG11	1.95	0.49
4:CG:3:ARG:O	4:CG:4:TYR:C	2.55	0.49
4:CG:206:PHE:HD2	4:CG:207:TYR:CE1	2.31	0.49
5:CH:62:ALA:C	5:CH:64:ARG:H	2.21	0.49
7:CJ:23:VAL:O	7:CJ:27:ILE:CD1	2.60	0.49
9:CL:22:GLY:HA3	9:CL:60:ASP:OD2	2.13	0.49
10:CM:16:LEU:HD13	10:CM:16:LEU:C	2.38	0.49
22:CD:64:G:O2'	22:CD:65:C:H5'	2.13	0.49
24:DA:162:U:O2	24:DA:162:U:H2'	2.12	0.49
24:DA:481:G:HO2'	24:DA:507:A:H61	1.61	0.49
24:DA:500:G:N1	24:DA:503:A:OP2	2.44	0.49
24:DA:530:G:C6	24:DA:2022:U:H5"	2.48	0.49
24:DA:654:A:H2'	24:DA:654:A:N3	2.27	0.49
24:DA:987:G:C2'	24:DA:988:A:H5'	2.42	0.49
24:DA:1240:U:O2'	24:DA:1241:A:H5'	2.13	0.49
24:DA:2056:G:N2	24:DA:2057:A:C4	2.80	0.49
24:DA:2098:U:H2'	24:DA:2099:U:H6	1.76	0.49
24:DA:2152:G:H2'	24:DA:2153:G:H8	1.77	0.49
24:DA:2173:A:OP1	24:DA:2174:C:C5	2.65	0.49
30:DH:13:LYS:HE2	30:DH:13:LYS:CA	2.40	0.49
30:DH:19:VAL:HG13	30:DH:43:VAL:HG23	1.93	0.49
31:DK:1:MET:HG3	31:DK:23:PRO:HA	1.94	0.49
31:DK:9:LEU:C	31:DK:10:GLU:HG3	2.36	0.49
31:DK:128:LEU:O	31:DK:138:ILE:N	2.44	0.49
32:DM:4:TYR:OH	32:DM:7:LYS:NZ	2.46	0.49
34:DO:6:LEU:O	34:DO:7:ARG:O	2.31	0.49
34:DO:31:ALA:C	34:DO:32:THR:CG2	2.85	0.49
35:DP:23:GLY:O	35:DP:24:GLY:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DR:135:ALA:C	38:DR:137:LYS:N	2.71	0.49
40:D2:76:LYS:HG3	40:D2:81:TYR:CD1	2.48	0.49
43:DU:95:LYS:N	43:DU:95:LYS:CD	2.76	0.49
44:DV:143:GLY:O	44:DV:145:GLU:HG3	2.12	0.49
46:DZ:73:LEU:C	46:DZ:75:GLU:N	2.70	0.49
1:AA:162:A:H8	1:AA:162:A:O5'	1.95	0.49
1:AA:357:G:O2'	1:AA:358:U:H5'	2.13	0.49
1:AA:976:G:N2	1:AA:1362(A):C:OP2	2.33	0.49
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.48	0.49
3:AF:115:LEU:C	3:AF:117:ALA:N	2.70	0.49
3:AF:119:ARG:HD3	3:AF:123:GLN:HE21	1.77	0.49
6:AI:37:VAL:HG12	6:AI:38:GLU:N	2.28	0.49
12:AO:29:GLY:O	12:AO:30:ALA:O	2.31	0.49
13:AP:25:ILE:HD12	13:AP:25:ILE:N	2.28	0.49
13:AP:37:THR:HG22	13:AP:37:THR:O	2.13	0.49
18:AU:50:ILE:HD11	18:AU:70:ILE:HG21	1.95	0.49
22:AC:19:G:C2	22:AC:57:A:C2	3.01	0.49
24:BA:357:A:H2'	24:BA:358:U:H6	1.75	0.49
24:BA:467:G:O2'	24:BA:468:G:H5'	2.12	0.49
24:BA:535:C:C2'	24:BA:536:A:H5'	2.43	0.49
24:BA:654(B):C:N4	24:BA:654(T):A:C2	2.77	0.49
24:BA:1005:C:H2'	24:BA:1006:C:C6	2.48	0.49
24:BA:1171:G:HO2'	24:BA:1173:G:C1'	2.25	0.49
24:BA:1666:G:O3'	33:BN:6:THR:HG23	2.12	0.49
24:BA:1785:A:C8	24:BA:1787:A:C5	3.01	0.49
28:BF:59:TYR:CD1	28:BF:78:ILE:HG13	2.48	0.49
29:BG:143:GLU:HA	49:B4:31:ILE:HD13	1.94	0.49
30:BH:22:GLY:HA2	30:BH:37:VAL:CB	2.43	0.49
31:BK:111:PRO:O	31:BK:112:LYS:C	2.56	0.49
32:BM:126:PRO:O	32:BM:127:ASP:CB	2.60	0.49
35:BP:89:ASN:ND2	35:BP:89:ASN:N	2.60	0.49
38:BR:118:ARG:HA	38:BR:121:ILE:HB	1.95	0.49
41:BS:29:LEU:CD1	41:BS:51:LEU:HD11	2.43	0.49
43:BU:77:PRO:O	43:BU:78:ALA:HB2	2.13	0.49
44:BV:128:VAL:HG21	44:BV:134:PRO:HD3	1.95	0.49
47:BW:43:GLN:O	47:BW:44:LEU:CG	2.61	0.49
52:B7:34:ARG:HB2	52:B7:42:LEU:HD22	1.94	0.49
1:CA:817:C:H1'	1:CA:819:A:H5'	1.95	0.49
1:CA:1322:C:O2	1:CA:1322:C:C2'	2.61	0.49
2:CE:15:VAL:H	2:CE:16:HIS:CE1	2.30	0.49
8:CK:109:ILE:HG12	8:CK:110:ALA:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:96:ARG:O	11:CN:97:ALA:C	2.54	0.49
13:CP:3:ARG:HA	13:CP:9:ILE:HG12	1.95	0.49
13:CP:12:ASN:O	13:CP:13:LYS:HB2	2.13	0.49
13:CP:90:LEU:HA	13:CP:93:ARG:CD	2.34	0.49
13:CP:120:LYS:O	13:CP:121:LYS:HB2	2.11	0.49
19:CV:11:VAL:O	19:CV:12:ASP:CB	2.61	0.49
20:CW:60:GLU:HG3	20:CW:81:LYS:HE3	1.94	0.49
20:CW:83:ARG:C	20:CW:86:ARG:HB3	2.38	0.49
22:CC:1:C:H2'	22:CC:2:G:OP2	2.13	0.49
24:DA:120:U:O4'	24:DA:120:U:O2	2.28	0.49
24:DA:218:A:H2'	24:DA:219:G:O4'	2.13	0.49
24:DA:228:A:H2'	24:DA:229:A:OP1	2.13	0.49
24:DA:365:C:C2'	24:DA:366:C:H5'	2.43	0.49
24:DA:435:C:H2'	24:DA:436:C:H5'	1.94	0.49
24:DA:803:U:H2'	24:DA:804:A:C5'	2.43	0.49
24:DA:2113:U:H3'	24:DA:2114:A:O4'	2.13	0.49
24:DA:2128:C:H2'	24:DA:2129:C:C6	2.48	0.49
24:DA:2134:A:N6	24:DA:2157:G:H1'	2.24	0.49
24:DA:2465:C:O2'	24:DA:2466:C:H5'	2.13	0.49
24:DA:2475:C:O2	24:DA:2475:C:H2'	2.13	0.49
24:DA:2631:G:N3	24:DA:2810:A:H2	2.10	0.49
24:DA:2850:A:OP2	24:DA:2866:U:N3	2.46	0.49
26:DD:69:ARG:C	26:DD:71:ASP:N	2.69	0.49
29:DG:92:VAL:O	29:DG:92:VAL:HG13	2.12	0.49
29:DG:115:ARG:HH11	29:DG:115:ARG:HG2	1.77	0.49
29:DG:143:GLU:HA	49:D4:28:LYS:HD3	1.95	0.49
30:DH:23:ARG:HD2	30:DH:34:GLU:OE2	2.12	0.49
30:DH:42:ARG:O	30:DH:52:VAL:HA	2.13	0.49
30:DH:54:ARG:HD3	30:DH:65:HIS:ND1	2.27	0.49
30:DH:137:ASP:CB	30:DH:140:LYS:HB2	2.43	0.49
34:DO:47:ASP:OD1	34:DO:49:ARG:NH1	2.46	0.49
36:D0:33:ARG:NH2	50:D5:55:ARG:CG	2.66	0.49
40:D2:35:LEU:HD22	40:D2:57:VAL:O	2.13	0.49
43:DU:97:ARG:HG2	43:DU:97:ARG:NH1	2.28	0.49
49:D4:53:GLU:O	49:D4:57:GLU:HG3	2.13	0.49
53:D8:52:LYS:H	53:D8:53:PRO:HD2	1.66	0.49
22:CB:64:G:H2'	22:CB:65:G:C8	2.47	0.49
1:AA:62:U:O2'	1:AA:379:C:H1'	2.13	0.48
1:AA:266:G:O2'	1:AA:267:C:OP2	2.30	0.48
1:AA:528:C:H5'	1:AA:535:A:N6	2.28	0.48
1:AA:689:C:O2'	1:AA:690:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:743:U:H2'	1:AA:744:C:H6	1.78	0.48
2:AE:36:ARG:N	2:AE:41:ILE:HD13	2.28	0.48
2:AE:158:LEU:H	2:AE:158:LEU:HD12	1.78	0.48
4:AG:158:ILE:HG22	4:AG:181:MET:HE2	1.95	0.48
5:AH:101:ILE:CD1	5:AH:119:LEU:HD23	2.40	0.48
5:AH:122:GLU:HB3	5:AH:126:ARG:CG	2.43	0.48
10:AM:57:LYS:O	10:AM:58:ASP:O	2.31	0.48
12:AO:79:GLU:HG3	12:AO:80:HIS:CE1	2.48	0.48
13:AP:49:THR:HG21	13:AP:52:GLU:OE1	2.13	0.48
13:AP:56:LEU:HD13	13:AP:56:LEU:C	2.38	0.48
19:AV:63:THR:O	19:AV:64:GLU:HB3	2.12	0.48
22:AD:28:C:H2'	22:AD:29:G:H8	1.76	0.48
24:BA:273(E):U:C2'	24:BA:273(F):C:H5'	2.43	0.48
24:BA:583:G:H5"	39:B1:10:ARG:HH12	1.77	0.48
24:BA:1005:C:O2'	32:BM:28:THR:HG21	2.12	0.48
24:BA:1103:A:H5'	24:BA:1103:A:H8	1.78	0.48
24:BA:1301:A:H4'	24:BA:1302:A:OP1	2.13	0.48
24:BA:1778:U:H2'	24:BA:1784:A:C6	2.48	0.48
24:BA:2087:G:O2'	24:BA:2088:G:H5'	2.12	0.48
24:BA:2318:G:H22	37:BQ:2:ALA:N	2.11	0.48
24:BA:2472:G:N1	24:BA:2477:C:OP1	2.44	0.48
24:BA:2534:A:H2'	24:BA:2535:G:O5'	2.13	0.48
24:BA:2747:G:N2	24:BA:2757:A:H62	2.08	0.48
24:BA:2763:G:H5'	24:BA:2764:A:OP2	2.12	0.48
26:BD:48:ARG:HG3	26:BD:48:ARG:HH11	1.78	0.48
26:BD:264:LYS:HG3	26:BD:265:PRO:HD2	1.94	0.48
27:BE:57:LYS:NZ	27:BE:72:VAL:HG13	2.27	0.48
27:BE:137:HIS:CB	27:BE:138:PRO:HD2	2.43	0.48
28:BF:20:LEU:HD23	28:BF:21:ALA:CB	2.43	0.48
29:BG:16:ARG:HH11	29:BG:16:ARG:HG2	1.78	0.48
29:BG:120:LEU:HD23	29:BG:179:PRO:HG2	1.95	0.48
34:BO:79:ARG:NE	34:BO:109:GLY:HA3	2.28	0.48
35:BP:134:ARG:HG2	35:BP:134:ARG:NH1	2.28	0.48
36:B0:66:VAL:HG12	36:B0:70:LEU:HD12	1.94	0.48
38:BR:3:ARG:O	38:BR:4:GLY:C	2.54	0.48
39:B1:101:ARG:C	39:B1:102:GLU:HG2	2.38	0.48
48:BX:19:GLN:O	48:BX:23:LEU:HD12	2.13	0.48
51:B6:17:LYS:O	51:B6:18:ARG:HG2	2.13	0.48
1:CA:191(B):G:O2'	1:CA:191(C):G:H5'	2.13	0.48
1:CA:501:C:H2'	1:CA:502:G:C8	2.47	0.48
1:CA:581:G:N2	1:CA:582:U:C4	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:742:G:H5”	15:CR:58:MET:CE	2.42	0.48
1:CA:909:A:H2’	1:CA:910:C:O4’	2.11	0.48
1:CA:1003:G:C8	1:CA:1003:G:H5’	2.48	0.48
1:CA:1187:G:H21	14:CQ:60:SER:HB3	1.78	0.48
1:CA:1402:C:O2	1:CA:1500:A:N1	2.46	0.48
1:CA:1486:G:H2’	1:CA:1487:G:O4’	2.13	0.48
2:CE:75:LYS:HA	2:CE:78:GLN:NE2	2.26	0.48
2:CE:180:LEU:O	2:CE:181:PHE:HB2	2.13	0.48
2:CE:181:PHE:O	2:CE:183:PRO:HD3	2.12	0.48
7:CJ:63:LYS:O	7:CJ:63:LYS:HD2	2.13	0.48
8:CK:82:HIS:C	8:CK:82:HIS:CD2	2.91	0.48
11:CN:41:THR:HG22	11:CN:42:TRP:N	2.28	0.48
16:CS:72:ARG:C	16:CS:72:ARG:CD	2.84	0.48
19:CV:5:LEU:HD22	49:D4:67:TYR:CE2	2.48	0.48
22:CC:1:C:C2’	22:CC:2:G:OP2	2.61	0.48
24:DA:53:A:H2’	24:DA:54:G:O4’	2.13	0.48
24:DA:676:A:H2	24:DA:802:A:N6	2.03	0.48
24:DA:1212:G:H2’	24:DA:1236:G:N2	2.28	0.48
24:DA:1236:G:O2’	24:DA:1237:A:C8	2.63	0.48
24:DA:1397:U:H3’	24:DA:1398:C:H5	1.77	0.48
24:DA:1576:U:O2’	24:DA:1577:C:H5’	2.13	0.48
24:DA:1882:C:H3’	24:DA:1883:G:H8	1.78	0.48
24:DA:2063:C:H2’	24:DA:2064:C:C6	2.48	0.48
24:DA:2285:C:H5	51:D6:27:LYS:CE	2.26	0.48
24:DA:2332:U:H5’	24:DA:2336:A:N6	2.28	0.48
29:DG:113:ARG:HD2	49:D4:33:VAL:CG1	2.43	0.48
34:DO:52:GLU:OE2	34:DO:57:THR:HA	2.13	0.48
34:DO:144:GLU:OE1	34:DO:144:GLU:O	2.31	0.48
35:DP:34:LEU:HD23	35:DP:104:PHE:HD1	1.77	0.48
36:D0:41:ALA:C	36:D0:43:GLU:N	2.68	0.48
37:DQ:33:LYS:HB3	37:DQ:34:HIS:CD2	2.48	0.48
37:DQ:48:LEU:N	37:DQ:48:LEU:CD1	2.76	0.48
39:D1:52:ARG:NH1	39:D1:52:ARG:CG	2.76	0.48
40:D2:7:THR:HG23	40:D2:22:VAL:HG11	1.94	0.48
40:D2:18:LEU:HB3	40:D2:96:ILE:CG1	2.43	0.48
41:DS:88:ARG:HB3	41:DS:92:ARG:CB	2.41	0.48
45:D3:25:ARG:HD2	45:D3:29:GLN:HE21	1.76	0.48
45:D3:42:GLY:C	45:D3:57:PHE:HD1	2.21	0.48
51:D6:37:ARG:HA	51:D6:37:ARG:HE	1.77	0.48
1:AA:84:U:C2’	1:AA:85:U:OP1	2.60	0.48
1:AA:437:U:H5”	4:AG:155:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:701:C:C4'	1:AA:702:A:H5"	2.35	0.48
1:AA:741:G:H2'	1:AA:742:G:O4'	2.13	0.48
1:AA:913:A:HO2'	1:AA:914:A:P	2.36	0.48
1:AA:1038:C:O2'	1:AA:1039:C:P	2.72	0.48
1:AA:1055:A:H1'	3:AF:156:ARG:HH12	1.78	0.48
1:AA:1363:A:C4'	1:AA:1364:U:OP1	2.61	0.48
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.48	0.48
2:AE:154:LEU:C	2:AE:154:LEU:CD2	2.86	0.48
2:AE:178:ARG:NH2	8:AK:68:ARG:HH12	2.10	0.48
4:AG:19:LEU:O	4:AG:20:TYR:C	2.56	0.48
5:AH:71:LEU:CD2	5:AH:115:VAL:HG13	2.43	0.48
9:AL:103:THR:HG22	9:AL:105:ASP:N	2.26	0.48
9:AL:122:ALA:HB1	9:AL:123:PRO:HD2	1.95	0.48
10:AM:75:ILE:HD12	10:AM:76:ASN:OD1	2.13	0.48
11:AN:125:PHE:N	11:AN:125:PHE:CD1	2.81	0.48
13:AP:16:ASP:OD2	13:AP:17:VAL:N	2.46	0.48
13:AP:39:ILE:HD12	13:AP:56:LEU:HD23	1.94	0.48
13:AP:70:LEU:HD22	13:AP:70:LEU:C	2.38	0.48
13:AP:95:GLY:O	13:AP:110:ARG:HB3	2.12	0.48
15:AR:31:LEU:HD12	15:AR:31:LEU:H	1.78	0.48
24:BA:519:U:H2'	24:BA:520:G:C8	2.48	0.48
24:BA:704:G:C2'	24:BA:705:A:OP2	2.62	0.48
24:BA:1080:A:H2'	24:BA:1081:U:H6	1.78	0.48
24:BA:1204:A:H1'	24:BA:1206:G:C5	2.49	0.48
24:BA:1266:G:O4'	41:BS:15:ARG:NH2	2.46	0.48
24:BA:1948:G:O2'	24:BA:1949:G:H5'	2.13	0.48
24:BA:2330:G:H1'	45:B3:41:ARG:O	2.12	0.48
24:BA:2740:A:N6	24:BA:2764:A:C8	2.81	0.48
24:BA:2867:G:O2'	24:BA:2868:A:P	2.70	0.48
25:BB:0:A:H2'	25:BB:1:U:C6	2.48	0.48
25:BB:75:G:H1	25:BB:102:G:H22	1.57	0.48
25:BB:82:G:N2	25:BB:95:U:H1'	2.29	0.48
25:BB:100:G:H2'	25:BB:101:A:O4'	2.14	0.48
26:BD:34:VAL:C	26:BD:35:LYS:HG3	2.37	0.48
26:BD:35:LYS:NZ	26:BD:65:ILE:HA	2.22	0.48
27:BE:24:THR:HG23	27:BE:186:GLY:HA2	1.94	0.48
27:BE:147:PRO:HB2	27:BE:149:ARG:HG2	1.95	0.48
29:BG:112:PRO:C	29:BG:114:ILE:N	2.70	0.48
30:BH:29:PRO:HB2	30:BH:30:LYS:NZ	2.28	0.48
32:BM:91:LEU:HD21	32:BM:98:VAL:HG11	1.94	0.48
35:BP:127:ILE:CG2	35:BP:128:LYS:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:103:GLU:O	37:BQ:106:ARG:HG2	2.13	0.48
39:B1:65:ILE:HG22	39:B1:66:ASN:N	2.26	0.48
40:B2:5:VAL:CG2	40:B2:6:LYS:N	2.76	0.48
41:BS:14:PRO:HB3	41:BS:18:ARG:NH2	2.28	0.48
41:BS:57:ASN:O	41:BS:58:ALA:C	2.56	0.48
44:BV:34:ASN:N	44:BV:34:ASN:ND2	2.60	0.48
52:B7:30:VAL:O	52:B7:31:LEU:C	2.56	0.48
53:B8:9:GLY:O	53:B8:13:ARG:HG3	2.13	0.48
1:CA:333:G:H4'	20:CW:16:HIS:CE1	2.48	0.48
1:CA:487:A:H2'	1:CA:488:C:O4'	2.13	0.48
1:CA:1200:C:C2'	1:CA:1201:A:OP2	2.61	0.48
1:CA:1331:G:OP2	13:CP:23:TYR:CE2	2.66	0.48
2:CE:5:ILE:HG21	2:CE:224:GLN:HG2	1.95	0.48
4:CG:9:CYS:SG	4:CG:22:LYS:CD	2.98	0.48
4:CG:9:CYS:SG	4:CG:22:LYS:CE	3.01	0.48
6:CI:51:PRO:HA	6:CI:55:ASP:O	2.12	0.48
9:CL:112:LYS:HD3	9:CL:113:LYS:O	2.13	0.48
10:CM:3:LYS:O	10:CM:100:THR:HA	2.13	0.48
10:CM:56:HIS:O	10:CM:58:ASP:O	2.30	0.48
10:CM:98:ILE:H	10:CM:98:ILE:CD1	2.24	0.48
11:CN:13:GLN:HG3	11:CN:75:TYR:O	2.13	0.48
11:CN:34:ASP:HB2	11:CN:35:PRO:HD2	1.95	0.48
12:CO:25:PRO:C	12:CO:27:LEU:N	2.70	0.48
13:CP:16:ASP:HB3	13:CP:34:LEU:HD11	1.93	0.48
13:CP:73:GLU:O	13:CP:76:ALA:HB3	2.14	0.48
15:CR:54:ARG:O	15:CR:55:GLY:C	2.55	0.48
16:CS:39:TYR:CE2	16:CS:41:PRO:HD3	2.47	0.48
16:CS:43:LYS:HE2	16:CS:48:TRP:CZ3	2.47	0.48
16:CS:57:ARG:HH11	16:CS:57:ARG:HG3	1.78	0.48
20:CW:97:ALA:HB3	20:CW:99:LEU:CD1	2.43	0.48
21:CX:9:ARG:HH11	21:CX:9:ARG:HG2	1.78	0.48
22:CC:64:G:H2'	22:CC:65:C:H6	1.77	0.48
22:CD:65:C:H2'	22:CD:66:C:C6	2.49	0.48
24:DA:1018:C:O2'	24:DA:1019:U:H5'	2.13	0.48
24:DA:1045:A:N3	24:DA:1047:G:C2	2.81	0.48
24:DA:1171:G:N2	24:DA:1179:C:C2	2.81	0.48
24:DA:1180:C:O2'	24:DA:1181:C:H5"	2.13	0.48
24:DA:1204:A:O2'	24:DA:1205:U:P	2.71	0.48
24:DA:1267:U:C5	24:DA:2012:G:C2	3.01	0.48
24:DA:1385:G:H4'	24:DA:1386:C:OP1	2.11	0.48
24:DA:1386:C:H2'	24:DA:1387:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1417:C:C2'	24:DA:1418:G:H5'	2.43	0.48
24:DA:1448:G:H5'	24:DA:1449:A:OP1	2.12	0.48
24:DA:1931:U:O2	24:DA:1931:U:O4'	2.29	0.48
24:DA:2335:A:O2'	24:DA:2336:A:H8	1.96	0.48
24:DA:2574:G:H2'	24:DA:2575:C:O4'	2.12	0.48
26:DD:25:THR:O	26:DD:27:THR:HG22	2.12	0.48
26:DD:123:ALA:HB3	26:DD:131:LEU:HG	1.94	0.48
26:DD:238:GLY:C	26:DD:239:ARG:O	2.53	0.48
29:DG:77:ILE:O	29:DG:81:LYS:O	2.31	0.48
31:DK:110:ASP:HB2	31:DK:111:PRO:C	2.38	0.48
34:DO:101:VAL:CG1	34:DO:102:ARG:N	2.75	0.48
35:DP:90:VAL:C	35:DP:92:GLY:N	2.71	0.48
36:D0:41:ALA:C	36:D0:43:GLU:H	2.21	0.48
44:DV:134:PRO:HB2	44:DV:136:PHE:O	2.12	0.48
51:D6:7:ILE:O	51:D6:9:LEU:N	2.46	0.48
53:D8:33:ASN:O	53:D8:35:GLN:N	2.46	0.48
53:D8:35:GLN:OE1	53:D8:35:GLN:HA	2.12	0.48
1:AA:284:G:H2'	1:AA:285:G:C8	2.47	0.48
1:AA:585:G:H4'	12:AO:8:ASN:HD21	1.77	0.48
1:AA:733:A:O2'	1:AA:734:G:H5"	2.13	0.48
1:AA:792:A:O2'	1:AA:793:U:H5"	2.13	0.48
1:AA:984:C:O2'	1:AA:985:C:H5'	2.13	0.48
1:AA:1004:A:N3	1:AA:1025:U:O4	2.46	0.48
1:AA:1114:C:O2'	14:AQ:60:SER:O	2.28	0.48
1:AA:1418:A:C2	24:BA:1948:G:N3	2.79	0.48
1:AA:1522:U:O2'	1:AA:1523:G:H5'	2.14	0.48
2:AE:76:GLN:HG2	2:AE:206:ASP:OD2	2.13	0.48
2:AE:101:MET:HB2	2:AE:102:LEU:HD12	1.94	0.48
3:AF:164:ARG:CG	3:AF:165:THR:H	2.23	0.48
4:AG:9:CYS:HA	4:AG:12:CYS:CB	2.43	0.48
4:AG:42:GLN:C	4:AG:44:GLY:H	2.21	0.48
4:AG:109:GLY:O	4:AG:111:ALA:N	2.46	0.48
9:AL:50:LEU:HA	9:AL:53:VAL:HG22	1.96	0.48
10:AM:47:PHE:CE1	10:AM:63:PHE:HB2	2.45	0.48
11:AN:50:TYR:HD1	11:AN:60:ALA:HB2	1.78	0.48
13:AP:22:ILE:CG2	13:AP:25:ILE:HD13	2.43	0.48
14:AQ:23:ARG:HG3	14:AQ:24:CYS:N	2.29	0.48
15:AR:82:ILE:HD11	15:AR:87:ILE:C	2.38	0.48
16:AS:75:ARG:C	16:AS:77:ALA:H	2.21	0.48
24:BA:70:G:H2'	24:BA:113:G:O2'	2.13	0.48
24:BA:310:A:OP1	43:BU:17:SER:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:312:G:OP2	24:BA:313:C:H5	1.96	0.48
24:BA:353:G:O2'	24:BA:354:G:H5'	2.14	0.48
24:BA:363(B):G:H5'	24:BA:363(B):G:H8	1.78	0.48
24:BA:474:G:H4'	24:BA:475:U:OP1	2.12	0.48
24:BA:872:A:H4'	35:BP:66:ILE:HD11	1.95	0.48
24:BA:942:G:O2'	24:BA:943:U:H5'	2.14	0.48
24:BA:975:G:H1'	24:BA:990:A:C2	2.48	0.48
24:BA:1260:G:C6	24:BA:1261:C:C4	3.01	0.48
24:BA:1359:A:N6	24:BA:1373:A:C2	2.80	0.48
24:BA:1365:A:H5'	46:BZ:12:PRO:HG2	1.94	0.48
24:BA:1525:G:H2'	24:BA:1526:G:C8	2.48	0.48
24:BA:1731:G:H2'	24:BA:1732:A:H5'	1.95	0.48
24:BA:1821:A:C2'	24:BA:1822:G:C5'	2.91	0.48
24:BA:2033:A:O2'	24:BA:2034:U:OP1	2.29	0.48
24:BA:2144:U:O2'	24:BA:2145:C:P	2.71	0.48
24:BA:2236:C:H2'	24:BA:2237:G:H5'	1.95	0.48
24:BA:2338:G:O2'	24:BA:2339:G:H5'	2.13	0.48
24:BA:2494:G:H2'	24:BA:2495:G:H8	1.77	0.48
24:BA:2653:U:H3'	24:BA:2654:A:H8	1.77	0.48
26:BD:64:ILE:O	26:BD:64:ILE:HG12	2.13	0.48
26:BD:72:LYS:NZ	26:BD:72:LYS:CB	2.75	0.48
26:BD:109:ASP:N	26:BD:196:VAL:O	2.46	0.48
26:BD:176:ARG:HG2	26:BD:176:ARG:NH1	2.28	0.48
27:BE:27:LEU:HD12	27:BE:180:ASN:O	2.13	0.48
27:BE:51:PHE:CE2	27:BE:52:LEU:HG	2.48	0.48
30:BH:7:LEU:HD22	30:BH:69:ARG:CG	2.42	0.48
31:BK:7:GLU:HG3	31:BK:8:PRO:CD	2.42	0.48
34:BO:110:TYR:HD2	34:BO:111:ARG:NH2	2.12	0.48
34:BO:112:LEU:HD12	34:BO:127:ALA:HA	1.94	0.48
36:B0:37:THR:HB	36:B0:40:LYS:HG3	1.95	0.48
36:B0:39:PRO:C	36:B0:41:ALA:H	2.20	0.48
38:BR:3:ARG:O	38:BR:5:ALA:N	2.46	0.48
38:BR:20:PRO:HD2	38:BR:86:ILE:CG2	2.35	0.48
41:BS:108:GLY:O	41:BS:109:GLU:C	2.56	0.48
41:BS:113:LYS:HD2	41:BS:113:LYS:C	2.38	0.48
43:BU:61:ILE:CG2	43:BU:62:GLU:N	2.70	0.48
43:BU:91:GLU:CG	43:BU:92:ASN:H	2.17	0.48
44:BV:58:VAL:O	44:BV:59:LEU:HG	2.13	0.48
46:BZ:72:GLU:OE1	46:BZ:76:ARG:NH2	2.46	0.48
51:B6:15:GLU:OE1	51:B6:18:ARG:HB2	2.13	0.48
51:B6:43:CYS:O	51:B6:44:ARG:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B6:48:VAL:HG13	51:B6:49:HIS:H	1.78	0.48
53:B8:23:VAL:CG1	53:B8:48:PHE:H	2.26	0.48
53:B8:56:GLU:O	53:B8:59:LYS:N	2.44	0.48
1:CA:392:G:H2'	1:CA:393:A:H8	1.78	0.48
1:CA:641:U:H4'	1:CA:642:A:OP1	2.13	0.48
1:CA:701:C:O2'	1:CA:702:A:P	2.72	0.48
1:CA:1158:C:C2	1:CA:1160:G:C8	3.01	0.48
1:CA:1534:A:C2	1:CA:1535:C:N4	2.81	0.48
2:CE:97:TRP:HZ2	2:CE:102:LEU:HD13	1.78	0.48
4:CG:114:ARG:HH11	4:CG:114:ARG:CG	2.17	0.48
5:CH:83:GLU:HG2	5:CH:88:LYS:CG	2.42	0.48
7:CJ:80:VAL:HG12	7:CJ:81:GLY:N	2.28	0.48
7:CJ:107:ALA:CB	7:CJ:134:ALA:HB2	2.44	0.48
9:CL:79:LEU:O	9:CL:83:ARG:HG2	2.13	0.48
10:CM:33:GLN:HB2	10:CM:75:ILE:CD1	2.43	0.48
13:CP:65:LYS:HZ3	13:CP:69:GLU:HG2	1.77	0.48
14:CQ:47:LEU:O	14:CQ:48:ALA:C	2.56	0.48
17:CT:67:LYS:HA	17:CT:70:ARG:HH12	1.76	0.48
20:CW:53:LEU:HA	20:CW:56:MET:CB	2.43	0.48
22:CD:15:G:H2'	22:CD:59:A:H2	1.78	0.48
23:C1:11:U:O2'	23:C1:12:A:P	2.71	0.48
24:DA:227:A:O2'	24:DA:228:A:P	2.71	0.48
24:DA:476:G:O4'	24:DA:505:A:C2	2.66	0.48
24:DA:1081:U:C5	24:DA:1082:U:H1'	2.48	0.48
24:DA:1180:C:C2'	24:DA:1181:C:H5"	2.43	0.48
24:DA:1266:G:HO2'	24:DA:2012:G:H1	1.60	0.48
24:DA:2064:C:H2'	24:DA:2065:C:H6	1.74	0.48
24:DA:2101:G:H2'	24:DA:2102:U:C6	2.48	0.48
25:DB:31:C:C2	25:DB:32:C:C5	3.00	0.48
26:DD:45:ASN:CG	26:DD:46:GLN:N	2.68	0.48
26:DD:48:ARG:HH11	26:DD:48:ARG:HG3	1.78	0.48
26:DD:237:GLU:OE1	26:DD:237:GLU:HA	2.12	0.48
28:DF:107:LYS:O	28:DF:110:LEU:N	2.47	0.48
28:DF:155:LEU:HD23	28:DF:186:ILE:HA	1.95	0.48
32:DM:30:ILE:O	32:DM:34:LEU:HD23	2.13	0.48
34:DO:71:VAL:HG13	34:DO:72:PRO:CD	2.43	0.48
37:DQ:18:ILE:O	37:DQ:19:LYS:O	2.31	0.48
37:DQ:55:ALA:O	37:DQ:56:LEU:HB3	2.14	0.48
43:DU:35:TYR:CD1	43:DU:69:ALA:HB3	2.48	0.48
44:DV:108:PRO:HG2	44:DV:111:VAL:HA	1.95	0.48
50:D5:48:GLU:HA	50:D5:59:GLU:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:49:CYS:SG	50:D5:58:LEU:HB2	2.53	0.48
51:D6:27:LYS:O	51:D6:28:ARG:HG2	2.13	0.48
1:AA:14:U:O2	1:AA:17:U:H5	1.96	0.48
1:AA:186(B):C:H2'	1:AA:186(C):G:H8	1.79	0.48
1:AA:1223:C:OP2	19:AV:78:ARG:NH2	2.45	0.48
1:AA:1246:C:O2'	1:AA:1247:U:H5'	2.13	0.48
4:AG:61:LYS:NZ	4:AG:62:GLN:NE2	2.61	0.48
7:AJ:36:LYS:HA	7:AJ:39:ALA:HB3	1.95	0.48
9:AL:25:LYS:HG2	9:AL:25:LYS:O	2.12	0.48
12:AO:12:ARG:O	12:AO:14:GLY:N	2.47	0.48
12:AO:46:LYS:CG	12:AO:47:LYS:N	2.75	0.48
13:AP:21:TYR:O	13:AP:22:ILE:HG13	2.12	0.48
13:AP:53:VAL:HG12	13:AP:57:ARG:CD	2.44	0.48
14:AQ:23:ARG:CD	14:AQ:28:GLY:O	2.60	0.48
18:AU:83:GLU:C	18:AU:84:LYS:HE2	2.38	0.48
22:AD:11:A:H2'	22:AD:12:G:C1'	2.42	0.48
24:BA:191:A:O2'	24:BA:192:C:H5'	2.12	0.48
24:BA:372:G:H1'	24:BA:373:U:H5	1.78	0.48
24:BA:387:U:HO2'	24:BA:388:G:P	2.36	0.48
24:BA:458:G:C3'	52:B7:38:GLY:O	2.60	0.48
24:BA:654:A:N3	24:BA:654:A:C2'	2.76	0.48
24:BA:678:C:H2'	24:BA:679:C:C6	2.47	0.48
24:BA:993:G:O4'	40:B2:87:HIS:CE1	2.67	0.48
24:BA:1045:A:H1'	24:BA:1047:G:N9	2.29	0.48
24:BA:1082:U:C6	24:BA:1082:U:C3'	2.96	0.48
24:BA:1341:U:O2'	24:BA:1342:A:OP1	2.30	0.48
24:BA:1485:G:C2'	24:BA:1486:A:H5'	2.43	0.48
24:BA:1630:G:H2'	24:BA:1630(A):C:C6	2.48	0.48
24:BA:2726:U:O2'	33:BN:1:MET:HE1	2.14	0.48
26:BD:94:LEU:HD23	26:BD:95:LEU:N	2.28	0.48
27:BE:54:GLN:O	27:BE:55:ASN:CG	2.56	0.48
28:BF:110:LEU:O	28:BF:113:ALA:HB3	2.13	0.48
30:BH:9:ILE:CG1	30:BH:51:ARG:HA	2.35	0.48
30:BH:102:ALA:CB	30:BH:117:PRO:HD3	2.42	0.48
31:BK:56:LYS:HE3	31:BK:60:GLU:HG2	1.94	0.48
31:BK:77:LEU:O	31:BK:79:ILE:HG13	2.13	0.48
31:BK:138:ILE:HG23	31:BK:138:ILE:O	2.14	0.48
43:BU:28:LYS:NZ	43:BU:28:LYS:HA	2.28	0.48
47:BW:6:VAL:C	47:BW:8:LYS:N	2.71	0.48
47:BW:47:ASN:O	47:BW:49:LYS:HD2	2.12	0.48
51:B6:44:ARG:O	51:B6:45:LYS:CG	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B8:10:ALA:C	53:B8:12:LYS:N	2.69	0.48
53:B8:52:LYS:HB2	53:B8:53:PRO:HD3	1.95	0.48
1:CA:49:U:H2'	1:CA:361:G:H21	1.78	0.48
1:CA:95:G:C2'	1:CA:96:G:C5'	2.92	0.48
1:CA:475:G:H2'	1:CA:476:G:O4'	2.14	0.48
1:CA:703:G:O2'	1:CA:704:A:P	2.71	0.48
2:CE:16:HIS:HB3	2:CE:210:SER:HB2	1.95	0.48
2:CE:154:LEU:O	2:CE:155:LEU:HB2	2.13	0.48
3:CF:14:ILE:C	3:CF:16:ARG:H	2.21	0.48
4:CG:22:LYS:HB2	4:CG:26:CYS:HB2	1.96	0.48
4:CG:33:MET:CE	4:CG:37:PRO:HA	2.42	0.48
4:CG:180:GLY:O	4:CG:181:MET:C	2.54	0.48
5:CH:78:HIS:CE1	5:CH:142:LEU:HD23	2.48	0.48
10:CM:94:VAL:CG1	10:CM:95:GLU:N	2.76	0.48
14:CQ:22:THR:O	14:CQ:23:ARG:CB	2.59	0.48
19:CV:43:GLU:OE2	19:CV:43:GLU:N	2.44	0.48
22:CD:48:C:N3	22:CD:59:A:H8	2.11	0.48
24:DA:172:C:O2'	24:DA:173:G:H5'	2.13	0.48
24:DA:299:A:H5'	24:DA:300:A:OP2	2.13	0.48
24:DA:528:A:C2'	24:DA:529:A:H5'	2.43	0.48
24:DA:608:A:N6	24:DA:609:A:C6	2.81	0.48
24:DA:1023:U:C2'	24:DA:1024:G:H5'	2.43	0.48
24:DA:1047:G:H2'	24:DA:1110:G:N1	2.27	0.48
24:DA:1077:A:H2'	24:DA:1077:A:N3	2.27	0.48
24:DA:1534:G:N2	24:DA:1535:U:C6	2.82	0.48
24:DA:1535:U:H3'	24:DA:1535:U:O2	2.14	0.48
24:DA:1688:U:H1'	24:DA:1701:A:C6	2.49	0.48
24:DA:2311:A:OP1	24:DA:2312:U:O4	2.32	0.48
24:DA:2645:G:H5'	24:DA:2646:C:OP2	2.13	0.48
27:DE:38:THR:O	27:DE:42:ASP:HB2	2.13	0.48
28:DF:198:ALA:O	28:DF:201:VAL:HG12	2.13	0.48
30:DH:12:PRO:HD3	30:DH:48:GLY:O	2.13	0.48
31:DK:10:GLU:O	31:DK:11:ASN:O	2.31	0.48
32:DM:87:LEU:C	32:DM:87:LEU:CD2	2.86	0.48
35:DP:19:GLY:O	35:DP:98:LYS:HD3	2.14	0.48
36:D0:52:ILE:CG2	36:D0:94:TYR:CD1	2.95	0.48
38:DR:58:ASN:HD22	38:DR:58:ASN:N	2.10	0.48
39:D1:91:ASP:O	39:D1:95:LEU:N	2.42	0.48
46:DZ:56:GLN:NE2	46:DZ:56:GLN:H	2.10	0.48
52:D7:48:LYS:CG	52:D7:49:ARG:H	2.23	0.48
1:AA:232:G:H1'	1:AA:262:A:N1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:752:G:C1'	1:AA:754:C:H41	2.25	0.48
1:AA:1145:C:O2	1:AA:1145:C:C2'	2.60	0.48
1:AA:1146:A:H8	1:AA:1146:A:H5'	1.78	0.48
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.79	0.48
1:AA:1179:A:OP2	9:AL:93:ARG:NH2	2.47	0.48
1:AA:1190:G:OP1	3:AF:5:ILE:HD12	2.14	0.48
1:AA:1453:G:H3'	20:AW:39:LYS:NZ	2.29	0.48
2:AE:29:ALA:O	2:AE:31:TYR:N	2.45	0.48
3:AF:4:LYS:C	3:AF:4:LYS:NZ	2.71	0.48
3:AF:29:TYR:O	3:AF:29:TYR:HD2	1.97	0.48
4:AG:52:SER:O	4:AG:54:TYR:N	2.47	0.48
7:AJ:16:LEU:N	7:AJ:16:LEU:HD22	2.27	0.48
9:AL:28:VAL:O	9:AL:29:ASN:C	2.55	0.48
9:AL:43:ALA:C	9:AL:45:ALA:H	2.20	0.48
11:AN:95:ILE:CG2	11:AN:108:ILE:HD11	2.43	0.48
13:AP:8:GLU:O	13:AP:10:PRO:CD	2.54	0.48
15:AR:39:LEU:C	15:AR:39:LEU:HD13	2.38	0.48
21:AX:12:LYS:HG2	21:AX:22:ARG:HB3	1.94	0.48
22:AC:25:C:H2'	22:AC:26:G:O4'	2.13	0.48
24:BA:49:A:H61	24:BA:177:G:H2'	1.78	0.48
24:BA:89:G:OP2	24:BA:90:U:C6	2.66	0.48
24:BA:935:C:C2	24:BA:936:C:C5	3.01	0.48
24:BA:1061:U:O3'	24:BA:1070:A:H4'	2.12	0.48
24:BA:2348:U:C4	24:BA:2382:G:N2	2.82	0.48
24:BA:2747:G:C6	24:BA:2754:U:C5	3.02	0.48
24:BA:2850:A:H2'	24:BA:2851:A:C8	2.48	0.48
25:BB:74:U:C2'	25:BB:75:G:H5"	2.43	0.48
26:BD:30:GLU:HG3	26:BD:63:ARG:CZ	2.44	0.48
26:BD:135:PHE:HZ	4:CG:166:LYS:CG	2.26	0.48
27:BE:4:ILE:CD1	27:BE:96:PHE:HE2	2.27	0.48
28:BF:108:LYS:O	28:BF:112:MET:HG3	2.13	0.48
30:BH:42:ARG:CD	30:BH:43:VAL:H	2.26	0.48
33:BN:87:ILE:HG22	33:BN:92:GLU:H	1.78	0.48
38:BR:100:TYR:HD2	38:BR:103:ARG:CZ	2.27	0.48
39:B1:91:ASP:O	39:B1:92:ARG:C	2.56	0.48
43:BU:28:LYS:HA	43:BU:28:LYS:CE	2.44	0.48
44:BV:59:LEU:CG	44:BV:60:GLU:N	2.75	0.48
46:BZ:56:GLN:NE2	46:BZ:56:GLN:H	2.11	0.48
1:CA:359:U:H2'	1:CA:360:A:C8	2.48	0.48
1:CA:502:G:C6	1:CA:503:C:C4	3.01	0.48
1:CA:528:C:N4	1:CA:529:G:C6	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:622:A:C8	1:CA:623:C:C6	3.01	0.48
1:CA:1150:U:H4'	1:CA:1280:A:H2	1.79	0.48
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.13	0.48
2:CE:42:ILE:HD11	2:CE:202:PRO:HB2	1.95	0.48
3:CF:42:LEU:HD12	3:CF:45:LYS:HZ3	1.77	0.48
3:CF:173:VAL:N	3:CF:174:PRO:HD3	2.28	0.48
4:CG:3:ARG:O	4:CG:5:ILE:HG13	2.14	0.48
4:CG:121:VAL:O	4:CG:134:ASP:HA	2.14	0.48
5:CH:84:PHE:HD2	5:CH:130:ASN:O	1.97	0.48
11:CN:20:TYR:C	11:CN:21:ILE:HD12	2.38	0.48
13:CP:50:GLU:O	13:CP:54:VAL:HG23	2.13	0.48
15:CR:24:SER:OG	15:CR:25:THR:N	2.47	0.48
22:CC:2:G:C8	22:CC:2:G:H5'	2.48	0.48
22:CC:68:C:H2'	22:CC:69:C:H6	1.78	0.48
23:C1:12:A:H5'	23:C1:13:A:P	2.54	0.48
24:DA:218:A:C2	24:DA:235:U:H4'	2.48	0.48
24:DA:1322:A:H2'	24:DA:1323:U:H6	1.78	0.48
24:DA:1344:G:H4'	24:DA:1384:A:C5	2.48	0.48
24:DA:2056:G:N2	50:D5:4:HIS:O	2.47	0.48
24:DA:2393:A:N6	24:DA:2422:A:N1	2.61	0.48
24:DA:2710:C:OP1	36:D0:15:SER:HB2	2.13	0.48
24:DA:2808:U:O2'	24:DA:2809:A:H5'	2.12	0.48
28:DF:31:HIS:HB2	34:DO:9:ASN:ND2	2.28	0.48
28:DF:128:ALA:O	28:DF:129:PHE:HB2	2.13	0.48
29:DG:115:ARG:HG2	29:DG:115:ARG:NH1	2.27	0.48
31:DK:111:PRO:O	31:DK:112:LYS:C	2.55	0.48
34:DO:6:LEU:CD2	34:DO:6:LEU:N	2.75	0.48
34:DO:35:HIS:O	34:DO:36:LYS:O	2.31	0.48
35:DP:31:ASP:O	35:DP:32:TYR:CG	2.66	0.48
38:DR:16:ARG:HD3	38:DR:19:LEU:CG	2.43	0.48
38:DR:96:ARG:NH1	38:DR:96:ARG:CB	2.77	0.48
43:DU:11:ASP:HB2	43:DU:27:VAL:HG11	1.94	0.48
43:DU:77:PRO:O	43:DU:78:ALA:HB2	2.11	0.48
44:DV:157:LEU:HA	44:DV:161:VAL:HG11	1.95	0.48
1:AA:358:U:H2'	1:AA:359:U:C6	2.47	0.48
1:AA:632:A:H4'	1:AA:633:G:H8	1.79	0.48
1:AA:680:C:H2'	1:AA:681:C:H6	1.79	0.48
1:AA:968:A:H4'	1:AA:969:A:OP2	2.13	0.48
1:AA:1008:C:C2'	1:AA:1009:G:OP1	2.61	0.48
1:AA:1381:U:C2'	1:AA:1382:C:H5'	2.44	0.48
3:AF:22:TRP:CZ3	3:AF:32:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:79:ARG:C	3:AF:81:GLY:H	2.21	0.48
3:AF:113:ALA:HA	3:AF:202:ILE:HD11	1.95	0.48
3:AF:182:ILE:HG12	3:AF:203:PHE:HA	1.96	0.48
4:AG:193:ASP:N	4:AG:193:ASP:OD2	2.45	0.48
5:AH:131:ILE:O	5:AH:134:ALA:HB3	2.13	0.48
9:AL:89:ASN:O	9:AL:92:TYR:HB2	2.13	0.48
13:AP:109:THR:HG22	13:AP:109:THR:O	2.13	0.48
17:AT:93:GLN:O	17:AT:95:TYR:N	2.46	0.48
18:AU:21:LYS:O	18:AU:22:VAL:HB	2.13	0.48
22:AD:18:G:H2'	22:AD:57:A:C2	2.48	0.48
22:AD:25:C:H2'	22:AD:26:G:H5'	1.95	0.48
24:BA:9:U:O4	24:BA:2629:A:N1	2.46	0.48
24:BA:270(L):U:N3	31:BK:50:ARG:NH1	2.57	0.48
24:BA:532:A:HO2'	24:BA:533:G:P	2.29	0.48
24:BA:786:C:H5"	24:BA:1780:A:N7	2.29	0.48
24:BA:1142(A):A:N7	24:BA:1144:G:C6	2.81	0.48
24:BA:1264:G:C2'	24:BA:1265:A:OP1	2.62	0.48
24:BA:1510:A:H2'	24:BA:1511:A:C8	2.49	0.48
24:BA:1698:A:O2'	24:BA:1699:G:C5'	2.61	0.48
24:BA:2346:A:H5'	24:BA:2383:G:H1'	1.96	0.48
24:BA:2406:U:C2	34:BO:72:PRO:HB2	2.48	0.48
25:BB:81:G:N2	25:BB:82:G:O6	2.46	0.48
26:BD:165:ILE:HD13	26:BD:175:LEU:HD21	1.94	0.48
27:BE:9:VAL:HG21	27:BE:25:VAL:CG1	2.42	0.48
27:BE:54:GLN:O	27:BE:75:VAL:HG22	2.13	0.48
28:BF:136:THR:HG23	28:BF:170:LEU:HD11	1.94	0.48
29:BG:110:ALA:O	29:BG:111:LEU:C	2.56	0.48
30:BH:9:ILE:HG22	30:BH:10:PRO:HA	1.92	0.48
30:BH:125:VAL:HG12	30:BH:126:PRO:CD	2.43	0.48
31:BK:77:LEU:N	31:BK:140:LEU:HD12	2.29	0.48
35:BP:28:ALA:CB	35:BP:67:ARG:NH1	2.76	0.48
36:B0:105:ARG:CG	36:B0:105:ARG:NH1	2.77	0.48
37:BQ:39:ILE:HG12	37:BQ:73:LEU:HD11	1.96	0.48
39:B1:111:GLU:C	39:B1:113:ALA:N	2.70	0.48
43:BU:33:LYS:CE	43:BU:34:LYS:HG2	2.42	0.48
44:BV:11:GLU:HG3	44:BV:12:GLY:N	2.28	0.48
44:BV:143:GLY:O	44:BV:144:LEU:C	2.56	0.48
46:BZ:64:ALA:HA	46:BZ:67:ILE:HG13	1.96	0.48
49:B4:40:HIS:HA	49:B4:44:THR:CG2	2.44	0.48
1:CA:74:C:O5'	1:CA:74:C:C6	2.62	0.48
1:CA:81:G:H2'	1:CA:82:U:O4'	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:96:G:H2'	1:CA:97:U:C4'	2.43	0.48
1:CA:271:C:H2'	1:CA:272:C:H6	1.77	0.48
1:CA:600:C:H2'	1:CA:601:C:H6	1.79	0.48
1:CA:667:G:H4'	15:CR:51:HIS:ND1	2.27	0.48
1:CA:1110:A:H2'	1:CA:1111:A:O4'	2.13	0.48
1:CA:1287:A:N6	1:CA:1288:A:N6	2.62	0.48
3:CF:195:VAL:CG1	3:CF:196:LEU:H	2.27	0.48
4:CG:6:GLY:O	4:CG:8:VAL:HG23	2.14	0.48
5:CH:11:ILE:CG1	5:CH:31:LEU:HD12	2.42	0.48
5:CH:20:GLN:O	5:CH:21:ALA:C	2.57	0.48
7:CJ:60:LYS:O	7:CJ:61:VAL:C	2.57	0.48
8:CK:45:ILE:O	8:CK:45:ILE:HG13	2.13	0.48
9:CL:18:PHE:O	9:CL:61:ALA:HA	2.13	0.48
9:CL:59:PHE:CZ	9:CL:88:TYR:CE1	3.01	0.48
9:CL:118:LYS:NZ	9:CL:118:LYS:CB	2.76	0.48
10:CM:49:VAL:CG1	10:CM:50:ILE:N	2.76	0.48
11:CN:19:ALA:CB	11:CN:32:ILE:HG22	2.42	0.48
17:CT:74:LEU:HD12	17:CT:75:ARG:NE	2.28	0.48
20:CW:37:SER:HB3	20:CW:84:LEU:CD2	2.43	0.48
20:CW:44:ALA:C	20:CW:91:LEU:HB3	2.39	0.48
20:CW:101:GLY:C	20:CW:103:GLY:H	2.21	0.48
22:CC:58:A:H2'	22:CC:60:U:OP2	2.13	0.48
24:DA:565:C:H4'	24:DA:1253:A:N6	2.28	0.48
24:DA:616:A:O2'	24:DA:617:G:O4'	2.31	0.48
24:DA:819:A:C4	24:DA:1189:A:C2	3.01	0.48
24:DA:1252:G:O4'	39:D1:33:ARG:HD3	2.13	0.48
24:DA:2461:C:H2'	24:DA:2462:U:C6	2.49	0.48
24:DA:2552:U:C2	24:DA:2554:U:H5'	2.49	0.48
24:DA:2660:A:C2	24:DA:2661:G:H1'	2.48	0.48
24:DA:2823:A:OP1	27:DE:113:PHE:HB2	2.13	0.48
26:DD:35:LYS:HD2	26:DD:104:TYR:CE1	2.49	0.48
27:DE:23:VAL:HG12	27:DE:173:VAL:HG21	1.94	0.48
29:DG:125:PHE:HB3	29:DG:166:ASP:HB2	1.95	0.48
30:DH:53:GLU:CD	30:DH:54:ARG:H	2.21	0.48
30:DH:119:GLU:CD	30:DH:120:GLY:H	2.22	0.48
31:DK:114:LEU:HD12	31:DK:129:THR:O	2.12	0.48
31:DK:140:LEU:N	31:DK:140:LEU:CD2	2.77	0.48
36:D0:48:VAL:O	36:D0:49:ASP:C	2.57	0.48
42:DT:35:THR:O	42:DT:36:LYS:C	2.55	0.48
42:DT:44:GLU:OE1	42:DT:50:LYS:HD2	2.13	0.48
44:DV:33:LEU:CG	44:DV:34:ASN:N	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:93:ASP:OD1	44:DV:94:GLU:N	2.46	0.48
46:DZ:8:SER:OG	46:DZ:10:LYS:HG3	2.13	0.48
49:D4:42:PHE:O	49:D4:44:THR:O	2.31	0.48
50:D5:52:TYR:O	50:D5:53:ALA:CB	2.60	0.48
51:D6:41:PRO:HD2	51:D6:46:HIS:H	1.77	0.48
22:CB:27:G:H2'	22:CB:28:U:H6	1.77	0.48
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.14	0.48
1:AA:1216:G:OP1	14:AQ:2:ALA:N	2.47	0.48
2:AE:167:PRO:O	2:AE:171:ALA:N	2.46	0.48
2:AE:170:GLU:C	2:AE:172:ILE:H	2.22	0.48
2:AE:194:PRO:O	2:AE:196:LEU:HD12	2.14	0.48
3:AF:73:PRO:O	3:AF:76:VAL:HG23	2.13	0.48
3:AF:94:LEU:HD12	3:AF:94:LEU:O	2.13	0.48
4:AG:163:GLU:C	4:AG:165:MET:N	2.72	0.48
7:AJ:86:GLN:NE2	22:AD:31:G:N2	2.62	0.48
8:AK:44:PHE:HA	8:AK:79:VAL:CG1	2.43	0.48
13:AP:3:ARG:HD2	13:AP:8:GLU:HB2	1.96	0.48
13:AP:22:ILE:HB	13:AP:25:ILE:HD13	1.96	0.48
19:AV:36:ARG:HD2	19:AV:73:GLU:N	2.29	0.48
22:AC:38:A:N7	22:AC:39:C:C5	2.82	0.48
22:AD:68:C:C4	22:AD:69:C:C5	3.02	0.48
24:BA:108:U:C2	24:BA:109:G:C8	3.01	0.48
24:BA:227:A:O2'	24:BA:228:A:P	2.72	0.48
24:BA:294:A:N6	24:BA:345:A:C4	2.81	0.48
24:BA:424:G:O2'	24:BA:425:G:H5'	2.14	0.48
24:BA:865:C:C4'	24:BA:866:A:OP1	2.62	0.48
24:BA:1098:A:C2'	24:BA:1099:G:H5"	2.43	0.48
24:BA:1252:G:O2'	24:BA:1253:A:P	2.72	0.48
24:BA:2146:C:H4'	24:BA:2147:G:C8	2.49	0.48
24:BA:2166:G:O2'	24:BA:2167:U:OP1	2.25	0.48
27:BE:8:LYS:O	27:BE:9:VAL:CG2	2.61	0.48
27:BE:68:ALA:HA	27:BE:71:GLY:CA	2.43	0.48
27:BE:101:ARG:NH1	27:BE:171:GLU:HB3	2.29	0.48
27:BE:121:ASN:O	27:BE:122:PHE:C	2.55	0.48
28:BF:61:GLY:C	28:BF:77:ASP:HB3	2.38	0.48
29:BG:124:SER:HB3	29:BG:131:TYR:HE1	1.77	0.48
31:BK:104:GLN:HG2	31:BK:105:HIS:CD2	2.48	0.48
34:BO:138:LEU:C	34:BO:138:LEU:HD12	2.38	0.48
44:BV:27:VAL:HG12	44:BV:87:ASP:HB3	1.95	0.48
51:B6:45:LYS:HB2	51:B6:45:LYS:NZ	2.29	0.48
1:CA:65:U:C4	1:CA:381:C:N3	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:85:U:O5'	1:CA:85:U:H6	1.97	0.48
1:CA:160:A:H2'	1:CA:161:A:O4'	2.14	0.48
1:CA:376:G:H4'	16:CS:5:ARG:HD2	1.95	0.48
1:CA:544:G:H2'	1:CA:545:C:C6	2.48	0.48
1:CA:600:C:H2'	1:CA:601:C:C6	2.49	0.48
1:CA:720:C:O5'	1:CA:720:C:H6	1.97	0.48
1:CA:825:G:O2'	1:CA:826:C:H5'	2.14	0.48
1:CA:953:G:H5"	1:CA:965:A:H61	1.76	0.48
2:CE:5:ILE:O	2:CE:6:THR:O	2.32	0.48
2:CE:16:HIS:HD2	2:CE:210:SER:HA	1.77	0.48
2:CE:181:PHE:HE1	8:CK:70:GLN:O	1.96	0.48
2:CE:206:ASP:HA	2:CE:211:ILE:HD11	1.94	0.48
3:CF:71:ALA:HA	3:CF:106:VAL:HB	1.95	0.48
4:CG:60:GLU:O	4:CG:63:LYS:HB3	2.14	0.48
4:CG:154:ASN:O	4:CG:155:LEU:O	2.32	0.48
4:CG:196:LEU:HB3	4:CG:197:PRO:HD2	1.96	0.48
5:CH:87:SER:HB3	5:CH:131:ILE:HD13	1.95	0.48
5:CH:100:VAL:O	5:CH:107:ARG:NH2	2.47	0.48
8:CK:86:ILE:HG13	8:CK:133:LEU:CD2	2.44	0.48
14:CQ:15:LYS:HD2	14:CQ:16:PHE:CE2	2.49	0.48
16:CS:69:THR:O	16:CS:73:LEU:HG	2.14	0.48
22:CD:39:C:H2'	22:CD:40:C:H6	1.78	0.48
24:DA:26:G:N1	24:DA:27:G:N2	2.62	0.48
24:DA:50:U:C4'	24:DA:51:G:OP2	2.56	0.48
24:DA:64:A:H1'	42:DT:66:LEU:HB2	1.95	0.48
24:DA:91:A:H2'	24:DA:92:G:H8	1.79	0.48
24:DA:631:A:OP1	34:DO:64:LYS:HE2	2.14	0.48
24:DA:1109:C:H2'	24:DA:1110:G:O4'	2.13	0.48
25:DB:56:G:H5'	29:DG:27:ASN:ND2	2.28	0.48
26:DD:10:THR:O	26:DD:11:PRO:C	2.56	0.48
27:DE:69:LYS:C	27:DE:71:GLY:N	2.71	0.48
30:DH:7:LEU:N	30:DH:8:PRO:CD	2.77	0.48
30:DH:82:GLY:O	30:DH:83:TYR:O	2.32	0.48
32:DM:103:VAL:O	32:DM:104:LYS:C	2.56	0.48
36:D0:42:LYS:HA	36:D0:45:ARG:HD2	1.95	0.48
44:DV:19:ARG:HD3	44:DV:25:PRO:HD2	1.95	0.48
46:DZ:92:LYS:O	46:DZ:93:GLU:C	2.56	0.48
47:DW:69:ARG:HH11	47:DW:69:ARG:HB3	1.79	0.48
49:D4:10:VAL:CG2	49:D4:11:PRO:HD2	2.43	0.48
1:AA:1065:U:HO2'	1:AA:1066:C:P	2.37	0.48
1:AA:1358:U:OP1	14:AQ:35:ARG:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:11:ARG:O	3:AF:14:ILE:O	2.32	0.48
4:AG:127:THR:CG2	4:AG:147:ALA:HB3	2.44	0.48
4:AG:173:TRP:HB2	4:AG:187:ARG:O	2.14	0.48
16:AS:57:ARG:HA	16:AS:60:LEU:HD12	1.94	0.48
17:AT:93:GLN:C	17:AT:95:TYR:N	2.71	0.48
18:AU:87:ARG:HH11	18:AU:87:ARG:HG3	1.78	0.48
22:AD:16:C:C2'	22:AD:17:C:OP1	2.62	0.48
24:BA:556:G:H8	24:BA:556:G:O5'	1.96	0.48
24:BA:611:C:O2'	24:BA:612:G:H5'	2.14	0.48
24:BA:1005:C:O2'	32:BM:28:THR:CG2	2.62	0.48
24:BA:1041:C:H2'	24:BA:1042:G:H8	1.79	0.48
24:BA:1288:U:O2'	24:BA:1647:G:N2	2.43	0.48
24:BA:1559:G:O2'	24:BA:1560:G:OP1	2.25	0.48
24:BA:1996:C:H5	33:BN:32:TYR:OH	1.97	0.48
24:BA:2082:A:H2'	24:BA:2083:G:O4'	2.12	0.48
24:BA:2124:G:C2'	24:BA:2125:G:H5'	2.43	0.48
24:BA:2274:A:N1	24:BA:2276:G:H1'	2.29	0.48
24:BA:2305:A:C2'	24:BA:2306:C:H5"	2.43	0.48
24:BA:2681:C:C2'	24:BA:2682:U:OP2	2.61	0.48
24:BA:2756:U:H4'	24:BA:2757:A:O5'	2.14	0.48
24:BA:2867:G:H2'	24:BA:2868:A:OP2	2.13	0.48
27:BE:25:VAL:HA	27:BE:182:LEU:O	2.14	0.48
27:BE:199:ARG:HH11	27:BE:199:ARG:CB	2.18	0.48
28:BF:101:LEU:O	28:BF:102:PRO:C	2.57	0.48
29:BG:81:LYS:HD3	29:BG:81:LYS:H	1.75	0.48
30:BH:20:ALA:CB	30:BH:25:LYS:HE3	2.42	0.48
30:BH:32:GLU:CG	30:BH:33:LEU:N	2.75	0.48
30:BH:97:ARG:CZ	30:BH:97:ARG:HA	2.43	0.48
31:BK:22:LYS:O	31:BK:23:PRO:C	2.57	0.48
31:BK:48:GLU:O	31:BK:52:ARG:HG3	2.14	0.48
31:BK:82:ARG:NH1	31:BK:82:ARG:HG2	2.28	0.48
33:BN:77:ILE:HG23	33:BN:77:ILE:O	2.14	0.48
35:BP:141:GLN:HG3	44:BV:73:GLN:CG	2.43	0.48
36:B0:101:ALA:O	36:B0:102:GLU:HB3	2.12	0.48
36:B0:102:GLU:O	36:B0:102:GLU:CG	2.61	0.48
37:BQ:70:GLY:C	37:BQ:72:ALA:N	2.67	0.48
42:BT:63:LYS:CD	42:BT:63:LYS:N	2.74	0.48
43:BU:88:LYS:O	43:BU:90:LEU:N	2.46	0.48
44:BV:171:ILE:O	44:BV:172:ALA:HB2	2.13	0.48
48:BX:22:ALA:O	48:BX:26:LEU:HG	2.13	0.48
53:B8:27:THR:O	53:B8:44:LYS:HD2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:448:A:C2	1:CA:487:A:C2	3.01	0.48
1:CA:743:U:H2'	1:CA:744:C:C6	2.49	0.48
1:CA:1074:G:H2'	1:CA:1075:C:C6	2.49	0.48
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.79	0.48
1:CA:1529:G:H5"	1:CA:1530:G:OP2	2.14	0.48
2:CE:212:GLN:CD	2:CE:212:GLN:C	2.82	0.48
3:CF:148:GLY:O	3:CF:202:ILE:HA	2.14	0.48
3:CF:153:VAL:HA	3:CF:197:GLY:O	2.14	0.48
4:CG:100:ARG:CZ	4:CG:137:SER:HA	2.44	0.48
5:CH:36:ASP:C	5:CH:37:ARG:HG2	2.38	0.48
5:CH:96:PRO:HA	5:CH:117:ASP:OD2	2.14	0.48
6:CI:79:LEU:O	6:CI:85:VAL:HG11	2.14	0.48
8:CK:10:LEU:H	8:CK:10:LEU:CD2	2.15	0.48
11:CN:19:ALA:CA	11:CN:32:ILE:HG22	2.43	0.48
12:CO:22:SER:C	12:CO:24:VAL:H	2.22	0.48
12:CO:38:THR:CG2	12:CO:57:LYS:HB3	2.44	0.48
14:CQ:41:ARG:HG2	14:CQ:41:ARG:NH1	2.29	0.48
16:CS:34:GLU:HG2	16:CS:35:LYS:N	2.29	0.48
22:CD:50:U:H2'	22:CD:51:C:H6	1.71	0.48
24:DA:139:G:N2	24:DA:1596:A:H4'	2.28	0.48
24:DA:308:G:N2	24:DA:329:G:H1'	2.28	0.48
24:DA:593:G:H2'	24:DA:594:U:H6	1.79	0.48
24:DA:1062:G:N2	24:DA:1077:A:C5	2.80	0.48
24:DA:1221:C:H2'	24:DA:1222:C:H6	1.78	0.48
24:DA:1235:G:C6	24:DA:1236:G:N2	2.82	0.48
24:DA:1827:C:H2'	24:DA:1828:G:O4'	2.13	0.48
24:DA:2056:G:N2	24:DA:2057:A:N9	2.61	0.48
24:DA:2277:G:H5'	35:DP:85:LYS:HG3	1.95	0.48
24:DA:2290:G:H5'	24:DA:2290:G:C8	2.37	0.48
24:DA:2585:U:O2	24:DA:2585:U:C2'	2.61	0.48
24:DA:2760:C:O2'	24:DA:2761:G:H5"	2.14	0.48
25:DB:21:G:H8	25:DB:21:G:H5'	1.78	0.48
26:DD:130:ALA:HA	26:DD:192:THR:HA	1.95	0.48
27:DE:55:ASN:O	27:DE:57:LYS:N	2.44	0.48
27:DE:174:ASP:O	27:DE:182:LEU:HD12	2.14	0.48
28:DF:34:TRP:HD1	34:DO:6:LEU:HB3	1.79	0.48
28:DF:129:PHE:CD2	28:DF:163:VAL:HG21	2.48	0.48
29:DG:97:ASP:N	29:DG:100:TRP:HD1	2.05	0.48
30:DH:45:VAL:O	30:DH:45:VAL:HG13	2.14	0.48
34:DO:61:ARG:HH21	53:D8:13:ARG:HD2	1.77	0.48
39:D1:79:PHE:HE2	39:D1:83:LEU:HD22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:35:ARG:NH1	44:DV:35:ARG:HB3	2.29	0.48
44:DV:120:ILE:O	44:DV:171:ILE:HD13	2.14	0.48
47:DW:27:GLU:H	47:DW:27:GLU:CD	2.17	0.48
52:D7:12:ARG:HG3	52:D7:12:ARG:HH11	1.79	0.48
1:AA:397:A:N7	1:AA:547:A:O2'	2.39	0.48
1:AA:421:U:O2	1:AA:421:U:C2'	2.61	0.48
1:AA:519:C:H2'	1:AA:520:A:C5'	2.44	0.48
1:AA:841:U:O2'	1:AA:842:C:OP1	2.23	0.48
2:AE:93:VAL:HG21	2:AE:97:TRP:HD1	1.78	0.48
3:AF:150:LYS:HB2	3:AF:169:ALA:HB1	1.95	0.48
4:AG:49:ARG:HE	4:AG:49:ARG:CA	2.27	0.48
4:AG:104:VAL:HG21	4:AG:140:VAL:HG11	1.96	0.48
4:AG:134:ASP:O	4:AG:136:PRO:HD3	2.12	0.48
6:AI:96:PRO:HB3	18:AU:30:ASP:OD1	2.13	0.48
7:AJ:144:MET:O	7:AJ:145:ALA:C	2.57	0.48
8:AK:20:TYR:HE2	8:AK:75:ARG:HB3	1.79	0.48
10:AM:60:ARG:HG3	10:AM:61:GLU:H	1.78	0.48
12:AO:18:VAL:HG23	12:AO:19:ARG:H	1.79	0.48
13:AP:4:ILE:HG23	13:AP:5:ALA:N	2.23	0.48
13:AP:4:ILE:HD11	13:AP:19:LEU:CD1	2.44	0.48
13:AP:86:CYS:SG	13:AP:87:TYR:N	2.85	0.48
15:AR:3:ILE:CG2	15:AR:38:ARG:HE	2.23	0.48
15:AR:67:LEU:HD22	15:AR:78:TYR:CE1	2.44	0.48
21:AX:2:GLY:O	21:AX:4:GLY:N	2.47	0.48
24:BA:105:C:O2'	43:BU:2:ARG:HG3	2.14	0.48
24:BA:993:G:N3	40:B2:89:GLN:OE1	2.47	0.48
24:BA:1000:A:C6	24:BA:1001:A:N1	2.82	0.48
24:BA:2145:C:O2'	24:BA:2146:C:OP1	2.28	0.48
24:BA:2252:G:H2'	24:BA:2253:G:C8	2.49	0.48
24:BA:2808:U:O2'	24:BA:2809:A:H5'	2.14	0.48
27:BE:179:GLU:HB3	27:BE:181:LEU:HD23	1.96	0.48
28:BF:123:LEU:O	28:BF:124:LEU:C	2.55	0.48
29:BG:142:PRO:HG2	29:BG:143:GLU:CD	2.39	0.48
30:BH:29:PRO:O	30:BH:79:VAL:HB	2.13	0.48
30:BH:59:ARG:HG3	30:BH:59:ARG:NH1	2.28	0.48
31:BK:31:LEU:H	31:BK:31:LEU:HD12	1.79	0.48
31:BK:31:LEU:HD12	31:BK:31:LEU:N	2.29	0.48
31:BK:72:LEU:O	31:BK:74:ASN:N	2.46	0.48
35:BP:59:ARG:CD	35:BP:59:ARG:N	2.77	0.48
36:B0:38:VAL:CG1	36:B0:42:LYS:HE3	2.44	0.48
36:B0:78:LYS:HE2	36:B0:83:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:B1:50:ARG:HG2	39:B1:53:ARG:HH21	1.78	0.48
39:B1:57:PHE:O	39:B1:58:ARG:C	2.57	0.48
46:BZ:54:ALA:CB	46:BZ:80:LEU:HB2	2.43	0.48
51:B6:6:ARG:O	51:B6:8:LYS:HD2	2.13	0.48
1:CA:49:U:C2	1:CA:361:G:N2	2.82	0.48
1:CA:97:U:C4	1:CA:99:C:N4	2.82	0.48
1:CA:177:C:H2'	1:CA:178:C:C6	2.48	0.48
1:CA:302:G:O3'	12:CO:17:LYS:HE2	2.14	0.48
1:CA:376:G:H5"	16:CS:5:ARG:CG	2.44	0.48
1:CA:402:G:C2'	1:CA:403:C:H5'	2.43	0.48
1:CA:895:G:H2'	1:CA:896:C:H6	1.79	0.48
1:CA:950:U:H3'	13:CP:102:ARG:NH2	2.29	0.48
1:CA:976:G:N2	1:CA:1362(A):C:OP2	2.37	0.48
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.37	0.48
1:CA:1319:A:C2	1:CA:1361:G:N2	2.82	0.48
2:CE:214:ILE:O	2:CE:218:ALA:HB2	2.13	0.48
3:CF:36:ASP:HA	3:CF:39:ILE:HD12	1.94	0.48
3:CF:101:LEU:HD23	3:CF:101:LEU:C	2.38	0.48
4:CG:198:VAL:CG1	4:CG:199:ASN:N	2.75	0.48
5:CH:75:THR:HG23	5:CH:76:ILE:O	2.14	0.48
7:CJ:79:ARG:O	7:CJ:80:VAL:HG23	2.14	0.48
8:CK:44:PHE:CD1	8:CK:80:ILE:HG12	2.49	0.48
11:CN:82:VAL:O	11:CN:108:ILE:HA	2.13	0.48
13:CP:69:GLU:O	13:CP:70:LEU:C	2.56	0.48
14:CQ:6:LEU:CD2	14:CQ:23:ARG:NH2	2.77	0.48
16:CS:25:ARG:HH11	16:CS:25:ARG:HG3	1.79	0.48
19:CV:36:ARG:NH1	19:CV:36:ARG:HB3	2.28	0.48
24:DA:620:G:H5"	24:DA:621:A:OP1	2.14	0.48
24:DA:768:G:O2'	24:DA:1379:A:N6	2.47	0.48
24:DA:1085:A:O2'	24:DA:1086:A:OP1	2.28	0.48
24:DA:1586:A:N3	24:DA:1586:A:O4'	2.47	0.48
24:DA:2531:A:H2	24:DA:2658:C:O2	1.97	0.48
26:DD:27:THR:O	26:DD:29:PRO:CD	2.62	0.48
26:DD:35:LYS:CG	26:DD:64:ILE:CG2	2.92	0.48
26:DD:198:ASN:C	26:DD:198:ASN:ND2	2.69	0.48
30:DH:124:GLU:HB3	30:DH:132:ARG:CD	2.44	0.48
30:DH:127:GLU:HB3	30:DH:128:PRO:HD2	1.93	0.48
32:DM:137:LYS:CG	32:DM:138:LEU:H	2.27	0.48
35:DP:42:ILE:HD12	35:DP:42:ILE:N	2.29	0.48
36:D0:44:LEU:HD22	36:D0:48:VAL:CG2	2.43	0.48
38:DR:16:ARG:NE	38:DR:19:LEU:HD21	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:D1:79:PHE:C	39:D1:79:PHE:HD2	2.18	0.48
40:D2:21:ARG:HD2	40:D2:91:TYR:CZ	2.49	0.48
40:D2:38:LEU:HD23	40:D2:39:LEU:H	1.79	0.48
43:DU:57:GLN:O	43:DU:58:GLY:O	2.32	0.48
44:DV:33:LEU:HD11	44:DV:35:ARG:CG	2.44	0.48
44:DV:94:GLU:CB	44:DV:130:PRO:HD3	2.38	0.48
44:DV:125:LEU:HG	44:DV:164:ALA:HB1	1.95	0.48
44:DV:135:GLU:HG3	44:DV:136:PHE:CD2	2.49	0.48
47:DW:33:MET:O	47:DW:37:PHE:HD1	1.95	0.48
51:D6:20:ASN:ND2	51:D6:42:TRP:CZ2	2.82	0.48
1:AA:662:G:O2'	1:AA:836:G:C5'	2.62	0.48
1:AA:872:A:O2'	1:AA:873:A:O5'	2.31	0.48
1:AA:879:C:O2'	1:AA:880:C:H5'	2.14	0.48
1:AA:947:G:H2'	1:AA:948:C:O4'	2.13	0.48
1:AA:1035:A:H2'	1:AA:1036:G:H5"	1.95	0.48
1:AA:1041:A:H2'	1:AA:1042:G:C5'	2.37	0.48
1:AA:1113:C:O2'	1:AA:1114:C:H5'	2.13	0.48
1:AA:1135:U:O2'	1:AA:1136:U:P	2.72	0.48
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.49	0.48
2:AE:86:GLU:C	2:AE:88:ALA:H	2.22	0.48
3:AF:164:ARG:HG2	3:AF:165:THR:N	2.29	0.48
10:AM:97:GLU:C	10:AM:98:ILE:HD12	2.38	0.48
19:AV:8:GLY:O	19:AV:9:VAL:C	2.57	0.48
19:AV:62:ILE:HD12	19:AV:62:ILE:N	2.29	0.48
24:BA:1161:C:H2'	24:BA:1162:G:C8	2.49	0.48
24:BA:1500:G:H21	26:BD:100:GLY:HA3	1.79	0.48
24:BA:1856:G:H2'	24:BA:1857:G:H5'	1.96	0.48
24:BA:1925:C:N4	24:BA:1926:U:C1'	2.77	0.48
25:BB:57:A:H8	25:BB:57:A:O5'	1.97	0.48
25:BB:75:G:H2'	25:BB:76:G:O4'	2.13	0.48
26:BD:43:ARG:HB2	26:BD:54:ARG:HB2	1.96	0.48
26:BD:266:SER:O	26:BD:267:SER:O	2.32	0.48
27:BE:154:LYS:HA	27:BE:154:LYS:CE	2.37	0.48
28:BF:132:VAL:C	28:BF:134:GLY:H	2.21	0.48
28:BF:142:TRP:C	28:BF:142:TRP:CE3	2.91	0.48
29:BG:88:ILE:HD13	29:BG:88:ILE:C	2.39	0.48
29:BG:129:GLY:HA3	29:BG:163:ALA:O	2.14	0.48
34:BO:116:GLY:O	34:BO:134:ALA:HB2	2.14	0.48
35:BP:89:ASN:C	35:BP:91:GLU:N	2.72	0.48
36:B0:13:HIS:O	36:B0:14:SER:C	2.57	0.48
38:BR:27:THR:O	38:BR:89:VAL:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:94:LYS:HZ1	43:BU:101:LYS:NZ	2.11	0.48
44:BV:16:SER:O	44:BV:20:ARG:HG3	2.13	0.48
44:BV:27:VAL:CA	44:BV:37:VAL:HG22	2.43	0.48
44:BV:56:VAL:HG12	44:BV:57:ILE:N	2.27	0.48
44:BV:157:LEU:N	44:BV:158:PRO:CD	2.77	0.48
45:B3:53:MET:HE1	45:B3:57:PHE:HD1	1.79	0.48
46:BZ:85:LEU:C	46:BZ:87:PRO:HD2	2.38	0.48
49:B4:16:CYS:O	49:B4:18:CYS:N	2.47	0.48
50:B5:46:CYS:SG	50:B5:47:PRO:HD2	2.54	0.48
1:CA:69:G:N1	1:CA:73:G:N7	2.61	0.48
1:CA:437:U:H5"	4:CG:155:LEU:HD22	1.95	0.48
1:CA:643:C:H5'	8:CK:31:PHE:CD1	2.48	0.48
1:CA:706:A:O2'	1:CA:707:C:H5'	2.14	0.48
1:CA:792:A:N9	1:CA:794:A:N6	2.61	0.48
1:CA:815:A:C2	1:CA:1529:G:C4	3.01	0.48
1:CA:1178:G:H5"	9:CL:93:ARG:HH21	1.77	0.48
7:CJ:97:GLN:O	7:CJ:101:LEU:HG	2.14	0.48
8:CK:86:ILE:HG22	8:CK:87:SER:N	2.29	0.48
9:CL:7:THR:O	9:CL:83:ARG:HD2	2.14	0.48
9:CL:95:LYS:HD3	9:CL:95:LYS:C	2.39	0.48
10:CM:74:ILE:HG12	10:CM:74:ILE:O	2.13	0.48
11:CN:32:ILE:HD11	11:CN:68:ALA:O	2.14	0.48
12:CO:10:LEU:HD13	17:CT:32:TYR:CE2	2.48	0.48
12:CO:50:SER:O	12:CO:51:ALA:HB2	2.14	0.48
13:CP:72:ALA:O	13:CP:76:ALA:HB2	2.14	0.48
20:CW:30:LYS:O	20:CW:33:ILE:HG12	2.14	0.48
24:DA:212:G:O2'	24:DA:213:A:H5'	2.14	0.48
24:DA:416:C:O2'	24:DA:417:C:H5'	2.13	0.48
24:DA:637:A:H2'	34:DO:117:GLU:OE2	2.13	0.48
24:DA:805:G:H4'	24:DA:806:C:OP2	2.14	0.48
24:DA:852:G:H2'	24:DA:853:G:C8	2.49	0.48
24:DA:995:C:N4	32:DM:2:LYS:HG3	2.27	0.48
24:DA:1036:G:OP1	30:DH:59:ARG:HB2	2.14	0.48
24:DA:1085:A:N3	24:DA:1086:A:C8	2.82	0.48
24:DA:1272:A:H5'	24:DA:1273:U:OP2	2.14	0.48
24:DA:1509:C:H3'	24:DA:1510:A:C5'	2.33	0.48
24:DA:1886:C:O2'	24:DA:1887:C:H5'	2.14	0.48
24:DA:1923:U:H2'	24:DA:1924:C:H6	1.79	0.48
24:DA:2074:U:H2'	24:DA:2075:U:C6	2.49	0.48
24:DA:2131:G:N2	24:DA:2158:A:N7	2.62	0.48
24:DA:2657:A:N1	24:DA:2665:A:N7	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2751:G:H4'	24:DA:2752:C:OP1	2.10	0.48
24:DA:2870:C:C2'	24:DA:2871:C:H5'	2.44	0.48
25:DB:74:U:H2'	25:DB:75:G:O4'	2.13	0.48
27:DE:61:ARG:CB	27:DE:62:PRO:HD3	2.41	0.48
27:DE:77:ILE:CD1	27:DE:78:LEU:N	2.70	0.48
30:DH:41:MET:HG3	30:DH:54:ARG:HA	1.96	0.48
33:DN:107:ARG:NH1	38:DR:36:GLU:OE1	2.46	0.48
38:DR:94:ALA:O	38:DR:95:ARG:CB	2.61	0.48
38:DR:105:LEU:C	38:DR:107:ASP:OD1	2.56	0.48
39:D1:79:PHE:HE2	39:D1:83:LEU:CD2	2.27	0.48
42:DT:11:PRO:HB3	42:DT:92:LEU:CD2	2.43	0.48
44:DV:72:ARG:HH11	44:DV:72:ARG:CG	2.26	0.48
46:DZ:94:LEU:O	46:DZ:95:LEU:CB	2.62	0.48
49:D4:8:LYS:O	49:D4:9:LEU:CB	2.62	0.48
51:D6:8:LYS:O	51:D6:27:LYS:HA	2.13	0.48
53:D8:41:ILE:HG13	53:D8:42:ARG:N	2.28	0.48
1:AA:437:U:C5'	4:AG:155:LEU:HD11	2.44	0.47
1:AA:791:G:C6	1:AA:792:A:N7	2.82	0.47
1:AA:819:A:C5'	1:AA:820:U:OP2	2.54	0.47
1:AA:960:U:C2'	1:AA:960:U:O2	2.62	0.47
1:AA:960:U:O2'	1:AA:961:U:OP2	2.32	0.47
1:AA:1298:C:O2'	1:AA:1299:A:C5	2.67	0.47
1:AA:1484:C:O2'	1:AA:1485:U:H5'	2.13	0.47
1:AA:1498:U:O2'	1:AA:1499:A:OP2	2.31	0.47
1:AA:1534:A:OP1	1:AA:1534:A:C8	2.66	0.47
3:AF:70:VAL:O	3:AF:105:GLU:HA	2.14	0.47
3:AF:186:PHE:HE1	3:AF:197:GLY:CA	2.27	0.47
4:AG:16:GLY:HA2	4:AG:33:MET:HE1	1.95	0.47
4:AG:21:LEU:HD13	4:AG:22:LYS:H	1.77	0.47
7:AJ:62:PHE:HA	7:AJ:124:LEU:HD22	1.94	0.47
8:AK:9:MET:CG	8:AK:26:VAL:HG21	2.43	0.47
9:AL:4:TYR:HE2	9:AL:88:TYR:CD1	2.32	0.47
9:AL:16:ARG:O	9:AL:63:ILE:HA	2.14	0.47
9:AL:19:LEU:HD23	9:AL:61:ALA:CA	2.42	0.47
9:AL:118:LYS:O	9:AL:118:LYS:HD3	2.14	0.47
12:AO:18:VAL:O	12:AO:19:ARG:CB	2.61	0.47
12:AO:84:LEU:HD22	12:AO:85:ILE:N	2.29	0.47
13:AP:44:ARG:O	13:AP:45:VAL:HG23	2.14	0.47
13:AP:54:VAL:HG22	13:AP:57:ARG:CZ	2.43	0.47
13:AP:84:ILE:O	13:AP:85:GLY:O	2.31	0.47
17:AT:93:GLN:C	17:AT:95:TYR:H	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:699:A:C2’	24:BA:700:G:H5’	2.44	0.47
24:BA:874:G:H2’	24:BA:875:G:C8	2.49	0.47
24:BA:924:C:H2’	24:BA:925:C:H6	1.78	0.47
24:BA:1113:U:H2’	24:BA:1114:G:C8	2.49	0.47
24:BA:1138:G:H2’	24:BA:1139:G:O4’	2.13	0.47
24:BA:1210:A:C4’	24:BA:1211:U:O5’	2.57	0.47
24:BA:2128:C:H2’	24:BA:2128:C:O2	2.14	0.47
24:BA:2182:G:H2’	24:BA:2183:C:H6	1.78	0.47
24:BA:2355:C:H5’	45:B3:36:ILE:CD1	2.42	0.47
25:BB:51:G:H2’	25:BB:52:A:O4’	2.14	0.47
26:BD:236:GLY:O	26:BD:237:GLU:O	2.32	0.47
26:BD:246:PRO:CG	26:BD:255:LYS:HD3	2.44	0.47
28:BF:84:VAL:C	28:BF:86:GLY:N	2.69	0.47
29:BG:34:LEU:HD13	29:BG:99:MET:CE	2.44	0.47
30:BH:153:LYS:HB2	30:BH:161:GLY:HA2	1.96	0.47
35:BP:68:ILE:HD13	35:BP:103:MET:HB3	1.95	0.47
37:BQ:110:LEU:HB3	37:BQ:111:GLU:H	1.47	0.47
39:B1:100:VAL:O	39:B1:101:ARG:CG	2.55	0.47
40:B2:61:VAL:O	40:B2:94:LEU:HD23	2.14	0.47
44:BV:127:LYS:HB3	44:BV:162:GLU:CB	2.44	0.47
45:B3:49:LYS:HE2	45:B3:49:LYS:CA	2.42	0.47
1:CA:143:A:H2	1:CA:220:G:N1	2.10	0.47
1:CA:376:G:H5”	16:CS:5:ARG:CB	2.44	0.47
1:CA:401:C:H2’	1:CA:402:G:H8	1.76	0.47
1:CA:731:G:H5’	1:CA:766:A:H4’	1.95	0.47
1:CA:1003:G:C8	1:CA:1003:G:H3’	2.48	0.47
2:CE:24:TRP:CD1	2:CE:26:PRO:HD3	2.49	0.47
4:CG:11:LEU:O	4:CG:19:LEU:HD21	2.14	0.47
4:CG:14:ARG:HD3	4:CG:14:ARG:C	2.39	0.47
5:CH:141:GLN:HA	5:CH:143:ARG:HH12	1.79	0.47
19:CV:24:ALA:O	19:CV:25:LYS:HB2	2.13	0.47
23:C1:19:A:C6	22:CB:38:A:C2	3.02	0.47
24:DA:506:G:H5’	24:DA:509:C:H1’	1.96	0.47
24:DA:863:A:O2’	24:DA:864:G:H5’	2.14	0.47
24:DA:1232:G:H2’	24:DA:1233:C:H6	1.79	0.47
24:DA:1460:A:C4’	24:DA:1461:G:OP2	2.57	0.47
24:DA:1819:A:O2’	24:DA:1820:U:OP2	2.32	0.47
24:DA:2100:G:H2’	24:DA:2100:G:N3	2.29	0.47
24:DA:2184:G:H2’	24:DA:2185:C:C6	2.49	0.47
24:DA:2378:A:H5”	37:DQ:23:ARG:NH2	2.29	0.47
24:DA:2636:U:OP1	27:DE:79:ARG:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2724:C:P	36:D0:1:MET:HE3	2.53	0.47
26:DD:241:PRO:O	26:DD:242:ARG:C	2.55	0.47
28:DF:155:LEU:HA	28:DF:174:VAL:HG12	1.95	0.47
29:DG:12:TYR:O	29:DG:16:ARG:HB3	2.14	0.47
29:DG:111:LEU:HD22	29:DG:120:LEU:HD21	1.96	0.47
32:DM:34:LEU:O	32:DM:49:GLY:HA3	2.13	0.47
32:DM:90:MET:O	32:DM:91:LEU:C	2.57	0.47
32:DM:118:LYS:C	32:DM:120:LEU:H	2.20	0.47
37:DQ:66:ALA:HA	37:DQ:69:VAL:HG12	1.96	0.47
42:DT:6:ASP:OD1	47:DW:29:LYS:NZ	2.47	0.47
44:DV:39:VAL:HG21	44:DV:44:PHE:HB2	1.95	0.47
44:DV:77:ASP:O	44:DV:78:LYS:C	2.56	0.47
47:DW:28:LYS:NZ	47:DW:56:GLN:HE22	2.11	0.47
49:D4:60:GLN:O	49:D4:63:TYR:HB3	2.14	0.47
50:D5:56:LYS:O	50:D5:57:VAL:C	2.57	0.47
52:D7:32:LYS:O	52:D7:33:ARG:C	2.56	0.47
1:AA:99:C:H2'	1:AA:101:A:C8	2.49	0.47
1:AA:246:A:O2'	1:AA:247:G:O4'	2.31	0.47
1:AA:467:G:H21	16:AS:82:GLN:HE22	1.62	0.47
1:AA:568:G:O6	12:AO:5:PRO:HD3	2.14	0.47
1:AA:701:C:O2'	1:AA:702:A:C5'	2.62	0.47
1:AA:707:C:H2'	1:AA:708:C:C6	2.49	0.47
1:AA:1279:A:H2	10:AM:43:ARG:NH2	2.06	0.47
1:AA:1308:U:H5'	13:AP:110:ARG:NH1	2.29	0.47
1:AA:1462:G:H2'	1:AA:1463:C:C6	2.49	0.47
2:AE:208:ILE:HD13	2:AE:211:ILE:HD12	1.96	0.47
4:AG:3:ARG:NH1	4:AG:5:ILE:CD1	2.74	0.47
7:AJ:27:ILE:HD12	7:AJ:27:ILE:N	2.29	0.47
7:AJ:86:GLN:NE2	22:AD:31:G:H21	2.13	0.47
11:AN:19:ALA:HB3	11:AN:82:VAL:HG22	1.96	0.47
11:AN:110:ASP:HB3	18:AU:85:LEU:CG	2.44	0.47
12:AO:82:VAL:HG23	12:AO:106:ASP:OD1	2.14	0.47
13:AP:80:ARG:HH12	49:B4:55:ARG:HD3	1.78	0.47
14:AQ:27:CYS:SG	14:AQ:29:ARG:HB2	2.54	0.47
14:AQ:29:ARG:HB3	14:AQ:40:CYS:HB3	1.96	0.47
14:AQ:29:ARG:HG2	14:AQ:40:CYS:HB2	1.95	0.47
15:AR:56:LEU:HA	15:AR:59:MET:CE	2.41	0.47
19:AV:36:ARG:CG	19:AV:72:GLY:N	2.76	0.47
20:AW:67:ALA:C	20:AW:69:GLY:H	2.22	0.47
24:BA:110:G:C2	24:BA:111:A:C8	3.02	0.47
24:BA:283:A:HO2'	24:BA:284:U:P	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:912:C:C2'	24:BA:913:U:H5'	2.44	0.47
24:BA:1036:G:P	30:BH:59:ARG:HB2	2.55	0.47
24:BA:1069:A:C4'	24:BA:1070:A:H5"	2.41	0.47
24:BA:1141:U:H4'	24:BA:1142(A):A:O4'	2.14	0.47
24:BA:1344:G:C5'	24:BA:1384:A:N6	2.77	0.47
24:BA:2057:A:O2'	24:BA:2058:A:H5'	2.14	0.47
24:BA:2133:G:N2	24:BA:2158:A:N6	2.62	0.47
24:BA:2212:A:OP1	24:BA:2212:A:C4'	2.62	0.47
24:BA:2356:C:O2	24:BA:2362:G:N1	2.48	0.47
24:BA:2377:A:H2'	24:BA:2378:A:C8	2.49	0.47
24:BA:2522:U:H2'	24:BA:2523:G:C5'	2.42	0.47
25:BB:77:U:C5	25:BB:98:G:N2	2.82	0.47
25:BB:94:C:O2'	25:BB:95:U:H5'	2.13	0.47
26:BD:117:VAL:CG2	26:BD:118:VAL:H	2.26	0.47
27:BE:8:LYS:O	27:BE:9:VAL:HG23	2.14	0.47
30:BH:40:GLU:HB3	30:BH:41:MET:HE2	1.96	0.47
30:BH:54:ARG:HE	30:BH:57:ASP:CG	2.21	0.47
31:BK:54:GLN:HG3	31:BK:55:ALA:N	2.29	0.47
35:BP:2:LEU:N	35:BP:2:LEU:CD1	2.76	0.47
35:BP:66:ILE:HD13	35:BP:67:ARG:H	1.79	0.47
40:B2:37:VAL:HG23	40:B2:38:LEU:H	1.79	0.47
44:BV:118:GLN:HG3	44:BV:173:ALA:HB3	1.95	0.47
44:BV:151:HIS:CD2	44:BV:151:HIS:C	2.91	0.47
46:BZ:53:VAL:O	46:BZ:55:GLY:N	2.46	0.47
46:BZ:92:LYS:O	46:BZ:93:GLU:HG2	2.14	0.47
53:B8:62:LEU:HB2	53:B8:63:PRO:CD	2.36	0.47
1:CA:93:U:H2'	1:CA:95:G:C5'	2.45	0.47
1:CA:438:G:H4'	4:CG:123:HIS:CE1	2.50	0.47
1:CA:833:U:H2'	1:CA:834:C:H6	1.78	0.47
1:CA:1023:G:H3'	1:CA:1024:G:C5'	2.40	0.47
1:CA:1171:G:O2'	1:CA:1172:C:H5'	2.15	0.47
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.13	0.47
1:CA:1346:A:C5	7:CJ:10:ARG:NH1	2.82	0.47
2:CE:24:TRP:CZ3	2:CE:26:PRO:HA	2.49	0.47
3:CF:129:ALA:C	3:CF:131:ARG:N	2.72	0.47
4:CG:79:PHE:HE2	4:CG:83:SER:HB2	1.79	0.47
5:CH:72:GLN:C	5:CH:74:GLY:H	2.23	0.47
11:CN:48:ILE:HG21	11:CN:63:LEU:HD13	1.96	0.47
11:CN:91:ARG:HH22	18:CU:88:LYS:NZ	2.09	0.47
17:CT:63:ARG:HG2	17:CT:64:PRO:N	2.28	0.47
23:C1:11:U:HO2'	23:C1:12:A:P	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C1:13:A:O2'	23:C1:14:A:O5'	2.29	0.47
24:DA:116:C:O2'	24:DA:117:G:H5'	2.14	0.47
24:DA:470:A:C5'	24:DA:470:A:C8	2.97	0.47
24:DA:589:C:H2'	24:DA:590:A:C8	2.49	0.47
24:DA:1444(A):A:O2'	24:DA:1460:A:N3	2.47	0.47
24:DA:1449:A:N3	24:DA:1530:G:H1'	2.30	0.47
24:DA:1464:C:O2'	24:DA:1528:A:H8	1.96	0.47
24:DA:1535:U:O2	24:DA:1536:A:H5"	2.14	0.47
24:DA:1923:U:H2'	24:DA:1924:C:C6	2.49	0.47
24:DA:1929:G:C8	24:DA:1929:G:H3'	2.43	0.47
24:DA:2172:U:H5'	24:DA:2173:A:OP2	2.13	0.47
24:DA:2319:G:C8	37:DQ:3:ARG:HB3	2.50	0.47
24:DA:2635:C:H2'	24:DA:2636:U:O5'	2.13	0.47
25:DB:50:G:OP2	37:DQ:62:LYS:HB2	2.15	0.47
25:DB:104:A:H2'	25:DB:105:G:O4'	2.13	0.47
26:DD:12:SER:C	26:DD:14:ARG:N	2.70	0.47
27:DE:15:PHE:CD1	27:DE:20:ALA:HB2	2.50	0.47
27:DE:119:ARG:HD3	27:DE:160:TYR:HD2	1.78	0.47
30:DH:120:GLY:HA3	30:DH:140:LYS:NZ	2.27	0.47
31:DK:1:MET:HG3	31:DK:23:PRO:CA	2.44	0.47
31:DK:123:LEU:HA	31:DK:142:VAL:CG2	2.44	0.47
34:DO:13:ASN:C	34:DO:15:ARG:H	2.21	0.47
35:DP:57:HIS:ND1	35:DP:58:PHE:N	2.62	0.47
36:D0:63:ARG:NH1	36:D0:63:ARG:HG3	2.29	0.47
37:DQ:46:VAL:HG12	37:DQ:47:THR:N	2.28	0.47
49:D4:48:ARG:C	49:D4:49:PHE:HD1	2.22	0.47
50:D5:3:LYS:O	50:D5:4:HIS:C	2.56	0.47
52:D7:25:PRO:HA	52:D7:28:ARG:CZ	2.45	0.47
53:D8:53:PRO:CD	53:D8:54:GLU:N	2.77	0.47
1:AA:328:C:H4'	1:AA:329:A:C5'	2.43	0.47
1:AA:440:A:H3'	1:AA:442:C:H6	1.78	0.47
1:AA:975:A:H4'	1:AA:976:G:O5'	2.14	0.47
1:AA:1187:G:N3	1:AA:1187:G:H2'	2.29	0.47
2:AE:101:MET:HE2	2:AE:108:ILE:HG21	1.95	0.47
2:AE:184:VAL:N	2:AE:198:ASP:OD1	2.47	0.47
3:AF:48:TYR:HA	3:AF:52:LEU:CD2	2.44	0.47
4:AG:179:GLU:C	4:AG:181:MET:N	2.72	0.47
5:AH:12:LEU:HD22	5:AH:13:ILE:HD13	1.96	0.47
5:AH:76:ILE:CG2	5:AH:142:LEU:HD13	2.44	0.47
5:AH:103:GLY:O	5:AH:104:ALA:C	2.56	0.47
7:AJ:20:ASP:OD2	7:AJ:23:VAL:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:99:LEU:HB3	9:AL:101:PHE:HE1	1.79	0.47
10:AM:16:LEU:HD21	10:AM:94:VAL:HG13	1.95	0.47
13:AP:19:LEU:H	13:AP:19:LEU:HD22	1.76	0.47
15:AR:33:THR:HG23	15:AR:63:ARG:HH11	1.79	0.47
17:AT:29:HIS:CG	17:AT:30:PRO:HD2	2.49	0.47
18:AU:18:ARG:NH1	18:AU:18:ARG:CB	2.76	0.47
20:AW:26:ASN:HD22	20:AW:27:LYS:H	1.62	0.47
22:AC:59:A:H2'	22:AC:60:U:O4'	2.14	0.47
22:AD:11:A:C2'	22:AD:12:G:O4'	2.60	0.47
22:AD:60:U:H4'	22:AD:61:C:OP2	2.14	0.47
24:BA:74:A:H5'	24:BA:75:G:O4'	2.14	0.47
24:BA:110:G:O2'	24:BA:111:A:H5'	2.14	0.47
24:BA:204:A:O2'	24:BA:205:G:P	2.72	0.47
24:BA:607:U:OP1	28:BF:103:LYS:N	2.44	0.47
24:BA:654(C):G:C2	24:BA:654(S):G:C6	3.02	0.47
24:BA:947:G:H2'	24:BA:948:G:C8	2.49	0.47
24:BA:1332:G:H22	24:BA:1609:A:H2'	1.77	0.47
24:BA:1503:U:H2'	24:BA:1504:C:C6	2.49	0.47
24:BA:1525:G:H2'	24:BA:1526:G:H8	1.79	0.47
24:BA:1698:A:O2'	24:BA:1699:G:P	2.72	0.47
24:BA:2528:U:O2'	24:BA:2529:G:H5"	2.14	0.47
24:BA:2695:C:H2'	24:BA:2696:U:C6	2.48	0.47
24:BA:2778:A:C4'	24:BA:2779:U:OP2	2.62	0.47
25:BB:96:G:N1	25:BB:97:G:C5	2.82	0.47
26:BD:11:PRO:C	26:BD:13:ARG:N	2.72	0.47
26:BD:43:ARG:HD3	26:BD:43:ARG:C	2.40	0.47
30:BH:77:LYS:C	30:BH:79:VAL:N	2.72	0.47
31:BK:56:LYS:HG3	31:BK:57:ARG:N	2.29	0.47
33:BN:107:ARG:HG3	33:BN:107:ARG:HH11	1.80	0.47
34:BO:1:MET:O	34:BO:2:LYS:HG3	2.15	0.47
34:BO:59:LEU:O	34:BO:61:ARG:CG	2.62	0.47
36:B0:103:ARG:NH1	41:BS:40:ASN:OD1	2.46	0.47
40:B2:38:LEU:HD12	40:B2:56:SER:N	2.29	0.47
1:CA:56:U:H2'	1:CA:57:G:H8	1.79	0.47
1:CA:152:A:N6	1:CA:170:U:C2	2.82	0.47
1:CA:736:C:H2'	1:CA:737:A:C8	2.50	0.47
1:CA:738:C:H2'	1:CA:739:C:H6	1.78	0.47
1:CA:818:G:H3'	1:CA:819:A:H5'	1.95	0.47
1:CA:1055:A:N7	1:CA:1200:C:N4	2.62	0.47
1:CA:1201:A:O2'	1:CA:1202:G:H5"	2.14	0.47
1:CA:1348:U:C5	1:CA:1373:G:N2	2.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.48	0.47
4:CG:165:MET:CE	4:CG:168:ARG:HD2	2.44	0.47
6:CI:40:VAL:HG22	6:CI:41:GLU:N	2.30	0.47
6:CI:97:PHE:CD2	18:CU:31:LEU:HD21	2.48	0.47
9:CL:22:GLY:O	9:CL:23:ASN:C	2.57	0.47
16:CS:21:VAL:HG23	16:CS:34:GLU:H	1.79	0.47
20:CW:50:GLU:HA	20:CW:100:ILE:CG2	2.43	0.47
20:CW:64:ASP:O	20:CW:67:ALA:N	2.47	0.47
21:CX:15:ARG:HG2	21:CX:15:ARG:NH1	2.29	0.47
24:DA:182:A:O2'	24:DA:183:C:H5'	2.14	0.47
24:DA:273(F):C:H3'	24:DA:274:G:C5'	2.43	0.47
24:DA:387:U:HO2'	24:DA:388:G:P	2.37	0.47
24:DA:575:A:O2'	24:DA:576:U:H5'	2.14	0.47
24:DA:618:G:C2	24:DA:618(A):C:C2	3.02	0.47
24:DA:1038:C:O2'	24:DA:1039:G:H5'	2.14	0.47
24:DA:1142(A):A:N7	24:DA:1144:G:C6	2.82	0.47
24:DA:1159:U:H2'	24:DA:1160:G:C8	2.48	0.47
24:DA:1485:G:H5'	24:DA:1485:G:C8	2.46	0.47
24:DA:1693:U:HO2'	26:DD:14:ARG:NH2	2.03	0.47
24:DA:1922:G:H2'	24:DA:1923:U:C6	2.49	0.47
24:DA:1929:G:C8	24:DA:1929:G:C4'	2.97	0.47
24:DA:1937:A:O2'	24:DA:1938:A:H5'	2.14	0.47
24:DA:2020:A:O2'	24:DA:2021:C:H3'	2.15	0.47
24:DA:2284:C:OP2	51:D6:8:LYS:HB2	2.15	0.47
24:DA:2688:U:C2'	24:DA:2688:U:O2	2.62	0.47
24:DA:2811:G:P	27:DE:61:ARG:HG3	2.54	0.47
27:DE:203:LYS:HD2	27:DE:203:LYS:C	2.39	0.47
28:DF:45:ARG:HG2	28:DF:45:ARG:NH1	2.28	0.47
29:DG:5:VAL:HG22	49:D4:25:TYR:CE2	2.50	0.47
30:DH:109:PHE:C	30:DH:111:HIS:H	2.22	0.47
30:DH:123:PHE:O	30:DH:125:VAL:HG23	2.13	0.47
32:DM:57:ALA:HA	32:DM:60:ILE:CD1	2.43	0.47
32:DM:57:ALA:O	32:DM:58:ASP:CB	2.62	0.47
32:DM:120:LEU:HD11	32:DM:122:VAL:CG2	2.42	0.47
36:D0:117:VAL:O	36:D0:118:GLU:CB	2.62	0.47
37:DQ:105:ALA:C	37:DQ:110:LEU:HD21	2.38	0.47
40:D2:2:PHE:CD2	40:D2:13:ARG:NH2	2.83	0.47
40:D2:36:PRO:HA	40:D2:56:SER:CB	2.44	0.47
44:DV:107:THR:HG22	44:DV:108:PRO:CA	2.43	0.47
46:DZ:60:PHE:HE2	46:DZ:91:LYS:HZ1	1.60	0.47
47:DW:6:VAL:O	47:DW:7:ARG:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:88:C:C2'	1:AA:89:U:H5'	2.45	0.47
1:AA:201:C:H3'	1:AA:209:U:H5	1.76	0.47
1:AA:222:U:H2'	1:AA:223:U:H6	1.79	0.47
1:AA:345:C:C5'	38:BR:41:ARG:CZ	2.92	0.47
1:AA:619:U:H3	4:AG:135:LEU:HD11	1.78	0.47
1:AA:662:G:O2'	1:AA:836:G:H5"	2.14	0.47
1:AA:908:A:H2'	1:AA:909:A:C8	2.48	0.47
1:AA:1047:G:C2'	1:AA:1048:G:H5'	2.44	0.47
1:AA:1501:C:H3'	1:AA:1504:G:N7	2.30	0.47
2:AE:12:GLU:O	2:AE:14:GLY:N	2.46	0.47
2:AE:15:VAL:CG1	2:AE:213:LEU:HD13	2.43	0.47
2:AE:38:GLY:O	2:AE:39:ILE:O	2.32	0.47
3:AF:4:LYS:HZ2	3:AF:4:LYS:CA	2.26	0.47
3:AF:4:LYS:O	3:AF:5:ILE:O	2.32	0.47
3:AF:22:TRP:NE1	14:AQ:54:PRO:HG2	2.28	0.47
4:AG:165:MET:HE3	4:AG:168:ARG:HB2	1.95	0.47
8:AK:29:SER:HB3	8:AK:32:LYS:CB	2.44	0.47
8:AK:40:ALA:HB2	8:AK:45:ILE:CD1	2.44	0.47
9:AL:100:GLY:O	9:AL:102:LEU:N	2.47	0.47
10:AM:75:ILE:HG13	10:AM:76:ASN:N	2.28	0.47
15:AR:4:THR:C	15:AR:6:GLU:N	2.71	0.47
15:AR:17:ARG:HG3	15:AR:17:ARG:NH1	2.29	0.47
18:AU:58:LEU:HD11	18:AU:63:GLN:OE1	2.15	0.47
22:AD:37:A:H2'	22:AD:38:A:C8	2.48	0.47
24:BA:283:A:C2	24:BA:427:U:H1'	2.49	0.47
24:BA:329:G:OP2	43:BU:71:LYS:NZ	2.47	0.47
24:BA:444:C:OP2	39:B1:2:PRO:HD3	2.14	0.47
24:BA:834:C:H2'	24:BA:835:A:C8	2.49	0.47
24:BA:991:C:H5'	24:BA:991:C:H6	1.79	0.47
24:BA:1047:G:O2'	24:BA:1110:G:N2	2.47	0.47
24:BA:1343:G:N2	24:BA:1344:G:C4	2.82	0.47
24:BA:2804:C:O2'	24:BA:2805:G:H5'	2.14	0.47
25:BB:12:C:H4'	25:BB:13:A:C5'	2.43	0.47
25:BB:14:U:H4'	25:BB:106:G:N2	2.30	0.47
26:BD:249:PRO:HD2	26:BD:250:TRP:CE3	2.50	0.47
27:BE:71:GLY:C	27:BE:73:GLU:H	2.22	0.47
27:BE:123:ALA:O	27:BE:124:GLY:O	2.33	0.47
29:BG:75:LYS:HG3	29:BG:76:SER:N	2.18	0.47
29:BG:121:ASN:HB2	29:BG:181:ARG:NH1	2.30	0.47
29:BG:161:THR:HG22	29:BG:163:ALA:N	2.30	0.47
30:BH:17:VAL:HG21	30:BH:49:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:47:LEU:HD12	31:BK:50:ARG:NE	2.23	0.47
32:BM:56:ASN:H	32:BM:125:GLY:H	1.60	0.47
34:BO:125:VAL:CG1	34:BO:144:GLU:HB3	2.45	0.47
34:BO:131:SER:O	34:BO:134:ALA:N	2.47	0.47
35:BP:141:GLN:HB3	44:BV:75:ASN:CA	2.44	0.47
35:BP:141:GLN:NE2	44:BV:73:GLN:HB3	2.29	0.47
36:B0:32:GLY:O	36:B0:115:GLU:HA	2.14	0.47
39:B1:74:LEU:HD22	39:B1:79:PHE:HB2	1.96	0.47
40:B2:85:LYS:CG	40:B2:86:GLY:N	2.77	0.47
43:BU:3:VAL:HG12	43:BU:5:MET:HE2	1.95	0.47
43:BU:42:VAL:O	43:BU:43:ASN:HB3	2.14	0.47
44:BV:28:MET:HG3	44:BV:37:VAL:CG1	2.42	0.47
46:BZ:5:CYS:HB3	46:BZ:9:GLY:N	2.29	0.47
51:B6:25:LYS:NZ	51:B6:27:LYS:HD3	2.29	0.47
52:B7:49:ARG:HH11	52:B7:49:ARG:HG2	1.80	0.47
53:B8:25:MET:C	53:B8:48:PHE:HE1	2.23	0.47
1:CA:192:U:H4'	20:CW:102:GLY:C	2.39	0.47
1:CA:1160:G:N2	1:CA:1161:C:O4'	2.47	0.47
1:CA:1392:G:H21	1:CA:1502:A:H8	1.63	0.47
2:CE:33:TYR:CD1	2:CE:33:TYR:C	2.92	0.47
2:CE:204:ASN:HD22	2:CE:204:ASN:C	2.22	0.47
3:CF:12:LEU:C	3:CF:14:ILE:H	2.21	0.47
3:CF:127:ARG:CG	3:CF:127:ARG:NH1	2.74	0.47
4:CG:29:PRO:O	4:CG:30:LYS:HB3	2.15	0.47
5:CH:13:ILE:HG22	5:CH:13:ILE:O	2.14	0.47
7:CJ:51:GLN:HA	7:CJ:51:GLN:OE1	2.14	0.47
8:CK:6:ILE:O	8:CK:10:LEU:HG	2.14	0.47
8:CK:39:LEU:HD11	8:CK:111:ILE:HD11	1.96	0.47
9:CL:42:ARG:NH2	9:CL:75:ASP:OD2	2.47	0.47
10:CM:49:VAL:HG23	14:CQ:34:TYR:OH	2.13	0.47
22:CD:16:C:H2'	22:CD:16:C:O2	2.14	0.47
24:DA:83:G:N1	24:DA:102:G:H2'	2.29	0.47
24:DA:422:A:C2	24:DA:423:A:C4	3.03	0.47
24:DA:828:U:O2	24:DA:828:U:C2'	2.62	0.47
24:DA:1404:C:C2'	24:DA:1405:U:H5'	2.44	0.47
24:DA:1490:A:H5"	24:DA:1491:G:OP2	2.14	0.47
24:DA:1943:U:OP1	24:DA:1943:U:H6	1.97	0.47
24:DA:2062:A:N3	24:DA:2062:A:H2'	2.27	0.47
24:DA:2319:G:H5'	24:DA:2320:A:OP1	2.14	0.47
24:DA:2415:G:C4	24:DA:2416:C:C5	3.03	0.47
24:DA:2492:U:H2'	24:DA:2493:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2640:G:H2'	24:DA:2641:G:O5'	2.13	0.47
24:DA:2655:G:HO2'	24:DA:2664:G:H1	1.62	0.47
28:DF:127:GLU:OE1	28:DF:127:GLU:HA	2.06	0.47
30:DH:127:GLU:OE2	30:DH:130:ARG:NH2	2.47	0.47
32:DM:9:VAL:HG21	32:DM:48:MET:CB	2.45	0.47
33:DN:8:LEU:HB2	33:DN:19:ILE:CD1	2.43	0.47
34:DO:47:ASP:OD1	34:DO:50:ARG:NH2	2.47	0.47
35:DP:119:ARG:O	35:DP:123:HIS:HD2	1.97	0.47
36:D0:10:LEU:O	36:D0:12:ARG:HG3	2.14	0.47
38:DR:132:LYS:O	38:DR:136:GLN:HG3	2.13	0.47
40:D2:35:LEU:O	40:D2:37:VAL:N	2.47	0.47
44:DV:33:LEU:HD21	44:DV:35:ARG:CD	2.42	0.47
46:DZ:7:ILE:HD12	46:DZ:62:VAL:HG11	1.96	0.47
50:D5:48:GLU:HA	50:D5:59:GLU:CG	2.43	0.47
53:D8:56:GLU:O	53:D8:58:ILE:N	2.47	0.47
1:AA:686:U:H1'	11:AN:42:TRP:HE1	1.80	0.47
1:AA:1177:G:H2'	1:AA:1178:G:N3	2.30	0.47
1:AA:1233:G:OP1	9:AL:123:PRO:O	2.32	0.47
1:AA:1248:A:H2'	9:AL:70:LYS:HZ3	1.79	0.47
1:AA:1372:U:C2'	1:AA:1373:G:H5'	2.43	0.47
2:AE:97:TRP:CD1	2:AE:101:MET:HG3	2.49	0.47
2:AE:121:LEU:HB3	2:AE:127:ILE:CD1	2.45	0.47
4:AG:9:CYS:SG	4:AG:22:LYS:HD2	2.54	0.47
4:AG:177:ASP:O	4:AG:177:ASP:CG	2.57	0.47
5:AH:147:ASP:O	5:AH:151:LEU:HD23	2.14	0.47
11:AN:62:GLN:O	11:AN:63:LEU:C	2.57	0.47
14:AQ:34:TYR:N	14:AQ:34:TYR:CD1	2.83	0.47
20:AW:90:GLN:O	20:AW:93:GLU:OE2	2.32	0.47
24:BA:241:A:HO2'	24:BA:242:G:P	2.37	0.47
24:BA:871:U:C5'	35:BP:5:ARG:HH21	2.27	0.47
24:BA:978:G:O2'	24:BA:979:G:H5'	2.14	0.47
24:BA:1217:C:P	39:B1:15:LYS:HE3	2.54	0.47
24:BA:1241:A:H2'	24:BA:1242:A:O5'	2.14	0.47
24:BA:1669:A:H5"	24:BA:2550:G:OP1	2.15	0.47
24:BA:2814:C:C6	24:BA:2815:C:C5	3.02	0.47
26:BD:6:PHE:HE2	26:BD:13:ARG:HH21	1.60	0.47
26:BD:35:LYS:HG2	26:BD:64:ILE:CG2	2.45	0.47
27:BE:89:ASP:O	27:BE:90:THR:CB	2.61	0.47
28:BF:103:LYS:HA	28:BF:106:ARG:HG3	1.97	0.47
28:BF:160:ASN:OD1	28:BF:163:VAL:N	2.44	0.47
28:BF:195:ASP:C	28:BF:197:ASP:N	2.71	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:127:GLY:CA	29:BG:166:ASP:HB3	2.40	0.47
30:BH:12:PRO:CB	30:BH:49:VAL:HB	2.22	0.47
31:BK:31:LEU:HB2	31:BK:32:PRO:HD3	1.96	0.47
34:BO:71:VAL:HG13	34:BO:72:PRO:CD	2.43	0.47
49:B4:56:VAL:HG13	49:B4:57:GLU:H	1.79	0.47
52:B7:47:ARG:H	52:B7:47:ARG:NH1	2.05	0.47
1:CA:103:C:P	20:CW:17:ARG:HH21	2.37	0.47
1:CA:468:A:O2'	16:CS:81:ARG:HA	2.13	0.47
1:CA:511:C:HO2'	1:CA:512:U:P	2.36	0.47
1:CA:701:C:H1'	1:CA:703:G:C4	2.49	0.47
1:CA:736:C:H2'	1:CA:737:A:H8	1.80	0.47
1:CA:788:U:H2'	1:CA:789:U:C5'	2.43	0.47
1:CA:1003:G:H8	1:CA:1003:G:H5'	1.80	0.47
1:CA:1004:A:H2'	1:CA:1005:A:N3	2.30	0.47
1:CA:1019:C:H2'	1:CA:1020:U:C4'	2.44	0.47
1:CA:1349:A:P	9:CL:118:LYS:HZ3	2.37	0.47
2:CE:4:GLU:CG	2:CE:5:ILE:H	1.99	0.47
2:CE:172:ILE:O	2:CE:175:ARG:CB	2.63	0.47
2:CE:223:ILE:HA	2:CE:226:ARG:HB3	1.97	0.47
4:CG:9:CYS:SG	4:CG:22:LYS:HE3	2.55	0.47
5:CH:82:VAL:CG1	5:CH:83:GLU:H	2.27	0.47
5:CH:153:LYS:HB2	5:CH:153:LYS:HZ3	1.79	0.47
6:CI:9:VAL:HB	6:CI:87:ARG:HB2	1.97	0.47
7:CJ:78:ARG:HG3	7:CJ:78:ARG:HH11	1.78	0.47
8:CK:16:ALA:HB2	8:CK:24:THR:CG2	2.44	0.47
9:CL:18:PHE:HB2	9:CL:62:TYR:HB3	1.96	0.47
10:CM:24:VAL:HG21	10:CM:37:PRO:CG	2.43	0.47
10:CM:47:PHE:CE1	10:CM:63:PHE:HB2	2.33	0.47
11:CN:110:ASP:HB2	18:CU:88:LYS:HD3	1.95	0.47
12:CO:115:LYS:O	12:CO:117:ARG:N	2.47	0.47
17:CT:29:HIS:N	17:CT:33:GLY:O	2.47	0.47
24:DA:228:A:C2'	24:DA:229:A:OP1	2.62	0.47
24:DA:270(W):G:H2'	24:DA:270(X):G:O4'	2.14	0.47
24:DA:675:A:OP1	28:DF:63:LYS:NZ	2.47	0.47
24:DA:716:A:C2	24:DA:717:G:H1'	2.49	0.47
24:DA:995:C:O2'	24:DA:996:A:OP2	2.26	0.47
24:DA:1374:G:H2'	24:DA:1375:C:H6	1.79	0.47
24:DA:1758:G:O2'	24:DA:1759:A:OP1	2.22	0.47
24:DA:1810:A:H2'	24:DA:1811:G:H5'	1.97	0.47
24:DA:1878:G:H2'	24:DA:1879:C:O4'	2.14	0.47
24:DA:2044:C:H5'	24:DA:2044:C:C6	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2134:A:H62	24:DA:2157:G:C1'	2.23	0.47
24:DA:2311:A:C2'	24:DA:2312:U:C5	2.97	0.47
24:DA:2370:G:H21	51:D6:45:LYS:NZ	2.12	0.47
26:DD:35:LYS:HD3	26:DD:63:ARG:HB3	1.96	0.47
26:DD:134:ARG:HB2	26:DD:135:PHE:CD2	2.49	0.47
27:DE:52:LEU:HB2	27:DE:75:VAL:CG2	2.40	0.47
27:DE:195:LEU:HD12	27:DE:196:VAL:N	2.29	0.47
29:DG:36:LYS:HA	29:DG:95:ARG:HG2	1.95	0.47
30:DH:131:VAL:HG12	30:DH:132:ARG:N	2.29	0.47
32:DM:137:LYS:CG	32:DM:138:LEU:N	2.77	0.47
34:DO:107:LYS:O	34:DO:108:LYS:C	2.58	0.47
34:DO:147:LEU:N	34:DO:147:LEU:HD22	2.28	0.47
35:DP:86:GLY:O	35:DP:88:GLY:N	2.46	0.47
39:D1:53:ARG:C	39:D1:55:ARG:H	2.20	0.47
39:D1:104:GLN:CD	39:D1:104:GLN:H	2.16	0.47
40:D2:59:ALA:HB2	40:D2:96:ILE:HD13	1.97	0.47
44:DV:134:PRO:C	44:DV:136:PHE:H	2.22	0.47
47:DW:48:HIS:O	47:DW:49:LYS:C	2.57	0.47
1:AA:50:A:O2'	1:AA:52:G:N9	2.47	0.47
1:AA:198:G:O2'	1:AA:199:G:H5'	2.13	0.47
1:AA:497:U:O2	1:AA:497:U:H2'	2.13	0.47
1:AA:680:C:H2'	1:AA:681:C:C6	2.50	0.47
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.14	0.47
1:AA:1287:A:C2	1:AA:1353:G:H1'	2.50	0.47
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.14	0.47
1:AA:1319:A:C2	1:AA:1361:G:N2	2.83	0.47
1:AA:1360:A:OP1	1:AA:1360:A:H8	1.97	0.47
1:AA:1386:G:C2	1:AA:1387:G:N7	2.83	0.47
1:AA:1423:G:H5'	33:BN:49:ARG:HH12	1.79	0.47
1:AA:1502:A:C2	1:AA:1505:G:N2	2.78	0.47
2:AE:80:ILE:HG21	2:AE:208:ILE:CD1	2.44	0.47
3:AF:182:ILE:HG23	3:AF:202:ILE:O	2.15	0.47
4:AG:34:GLU:O	4:AG:35:ARG:HB2	2.14	0.47
8:AK:19:VAL:O	8:AK:20:TYR:C	2.56	0.47
9:AL:33:PHE:O	9:AL:37:PHE:HB2	2.14	0.47
10:AM:60:ARG:CG	10:AM:61:GLU:N	2.77	0.47
11:AN:89:ALA:C	11:AN:91:ARG:H	2.23	0.47
12:AO:33:ARG:HE	12:AO:33:ARG:HA	1.79	0.47
14:AQ:9:LYS:HG2	14:AQ:12:ARG:NH1	2.29	0.47
17:AT:80:GLY:O	17:AT:81:ARG:CB	2.62	0.47
19:AV:7:LYS:CE	19:AV:8:GLY:H	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AV:52:TYR:C	19:AV:54:GLY:H	2.22	0.47
19:AV:67:VAL:HG11	49:B4:59:PHE:HD1	1.77	0.47
22:AD:33:U:H2'	22:AD:35:A:OP2	2.14	0.47
23:A1:19:A:H5'	23:A1:19:A:C8	2.48	0.47
24:BA:270(B):A:H8	24:BA:270(C):C:C6	2.32	0.47
24:BA:566:U:H2'	24:BA:567:A:O4'	2.15	0.47
24:BA:678:C:H2'	24:BA:679:C:H6	1.80	0.47
24:BA:1335:U:O2'	24:BA:1336:A:H5'	2.15	0.47
24:BA:1709:U:H2'	24:BA:1710:C:C6	2.49	0.47
24:BA:2399:G:H2'	24:BA:2400:G:O4'	2.15	0.47
24:BA:2422:A:H4'	24:BA:2423:U:OP1	2.14	0.47
24:BA:2468:G:N2	24:BA:2481:G:H2'	2.29	0.47
24:BA:2562:U:H2'	24:BA:2563:U:H5'	1.96	0.47
24:BA:2637:U:H5'	27:BE:82:ARG:HH21	1.80	0.47
26:BD:34:VAL:O	26:BD:34:VAL:CG1	2.63	0.47
26:BD:93:ALA:HB2	26:BD:107:ALA:HB2	1.97	0.47
26:BD:129:ASN:O	26:BD:193:VAL:HG12	2.14	0.47
29:BG:34:LEU:CD1	29:BG:99:MET:HE2	2.44	0.47
29:BG:117:PHE:CE1	29:BG:119:GLY:HA2	2.49	0.47
34:BO:62:LEU:C	34:BO:62:LEU:CD1	2.72	0.47
34:BO:115:LEU:HD13	34:BO:115:LEU:C	2.40	0.47
42:BT:12:VAL:HG22	42:BT:17:ALA:CB	2.43	0.47
43:BU:23:ARG:HH11	43:BU:23:ARG:CG	2.26	0.47
43:BU:75:ILE:CG1	43:BU:79:CYS:HA	2.45	0.47
43:BU:76:CYS:CB	43:BU:96:ILE:HD11	2.44	0.47
44:BV:107:THR:CB	44:BV:108:PRO:CD	2.89	0.47
47:BW:33:MET:O	47:BW:37:PHE:CD1	2.67	0.47
1:CA:468:A:H2'	1:CA:474:G:H5'	1.96	0.47
1:CA:993:G:O6	1:CA:1045:C:N4	2.46	0.47
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.14	0.47
1:CA:1316:G:H5"	14:CQ:17:LYS:CE	2.44	0.47
2:CE:60:ASP:C	2:CE:62:ALA:N	2.72	0.47
2:CE:109:SER:C	2:CE:111:ARG:H	2.22	0.47
2:CE:200:ILE:H	2:CE:200:ILE:HD12	1.79	0.47
3:CF:16:ARG:NH2	3:CF:183:ASP:OD2	2.47	0.47
4:CG:19:LEU:O	4:CG:20:TYR:C	2.57	0.47
4:CG:150:GLU:C	4:CG:152:SER:N	2.73	0.47
9:CL:5:TYR:OH	9:CL:7:THR:HG23	2.15	0.47
9:CL:100:GLY:C	9:CL:102:LEU:N	2.71	0.47
9:CL:106:ALA:O	9:CL:108:VAL:HG13	2.15	0.47
12:CO:43:VAL:HG23	12:CO:93:LEU:HD22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CO:61:THR:O	12:CO:63:GLY:N	2.45	0.47
13:CP:23:TYR:HB2	13:CP:67:GLU:OE1	2.15	0.47
16:CS:40:ASP:C	16:CS:42:ARG:N	2.73	0.47
20:CW:49:ALA:HB2	20:CW:99:LEU:HD22	1.97	0.47
20:CW:50:GLU:CG	20:CW:51:GLU:N	2.76	0.47
24:DA:34:C:C5	24:DA:454:A:O2'	2.67	0.47
24:DA:275:G:O2'	24:DA:276:A:H8	1.98	0.47
24:DA:687:C:H2'	24:DA:687:C:O2	2.13	0.47
24:DA:729:G:OP1	26:DD:10:THR:HG21	2.14	0.47
24:DA:994:C:H3'	39:D1:54:LYS:HE3	1.95	0.47
24:DA:1309:G:H4'	52:D7:7:PRO:HB2	1.96	0.47
24:DA:1385:G:C4'	24:DA:1386:C:OP1	2.63	0.47
24:DA:1538:G:N2	24:DA:1539:G:C4	2.82	0.47
24:DA:1569:A:H2'	24:DA:1570:A:O4'	2.15	0.47
24:DA:1605:C:H5'	24:DA:1610:A:N6	2.30	0.47
24:DA:1761:C:N4	24:DA:1762:A:H62	2.11	0.47
24:DA:2420:C:OP1	53:D8:34:TRP:HB2	2.14	0.47
24:DA:2540:C:H2'	24:DA:2541:A:O4'	2.14	0.47
27:DE:65:GLY:HA2	27:DE:70:ALA:HB3	1.95	0.47
27:DE:78:LEU:CD2	27:DE:79:ARG:HD2	2.43	0.47
27:DE:89:ASP:O	27:DE:90:THR:O	2.33	0.47
29:DG:16:ARG:NH2	29:DG:28:VAL:O	2.48	0.47
29:DG:106:LEU:HA	29:DG:110:ALA:CB	2.44	0.47
31:DK:73:GLU:HG3	31:DK:136:VAL:CG2	2.43	0.47
31:DK:77:LEU:HD12	31:DK:140:LEU:HB2	1.97	0.47
31:DK:114:LEU:O	31:DK:128:LEU:HD12	2.15	0.47
34:DO:98:GLU:O	34:DO:99:LEU:C	2.57	0.47
34:DO:112:LEU:HD12	34:DO:127:ALA:CB	2.44	0.47
37:DQ:40:ILE:HG22	37:DQ:41:ASP:N	2.28	0.47
39:D1:106:PHE:O	39:D1:109:LEU:HB2	2.15	0.47
41:DS:66:GLU:O	41:DS:69:LEU:HG	2.14	0.47
44:DV:63:ASP:O	44:DV:64:GLY:C	2.57	0.47
44:DV:108:PRO:CG	44:DV:112:ARG:N	2.70	0.47
45:D3:74:ARG:O	45:D3:76:GLY:N	2.47	0.47
47:DW:17:SER:CB	47:DW:18:PRO:CA	2.92	0.47
51:D6:33:LYS:C	51:D6:35:GLU:H	2.22	0.47
1:AA:410:G:OP2	4:AG:25:ARG:HG3	2.15	0.47
1:AA:531:U:C4'	1:AA:532:A:OP1	2.63	0.47
1:AA:713:G:N2	1:AA:777:A:O4'	2.41	0.47
1:AA:794:A:C2	1:AA:795:C:N3	2.83	0.47
1:AA:923:A:H2'	1:AA:924:C:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:968:A:C5'	1:AA:969:A:OP2	2.59	0.47
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.50	0.47
1:AA:1462:G:H2'	1:AA:1463:C:H6	1.79	0.47
2:AE:46:LYS:HA	2:AE:49:GLU:HB2	1.96	0.47
2:AE:164:VAL:CG1	2:AE:165:VAL:H	2.28	0.47
2:AE:218:ALA:O	2:AE:222:ILE:HG13	2.15	0.47
2:AE:221:LEU:HD12	2:AE:222:ILE:N	2.30	0.47
3:AF:79:ARG:NH2	3:AF:84:ILE:HG21	2.29	0.47
3:AF:109:PRO:HA	3:AF:115:LEU:HD12	1.97	0.47
3:AF:161:GLU:OE2	3:AF:162:GLN:N	2.48	0.47
4:AG:157:LEU:O	4:AG:161:ASN:ND2	2.47	0.47
5:AH:71:LEU:HD21	5:AH:115:VAL:HG13	1.97	0.47
5:AH:83:GLU:HA	5:AH:87:SER:O	2.14	0.47
5:AH:136:MET:C	5:AH:138:ALA:N	2.73	0.47
5:AH:144:THR:O	5:AH:148:VAL:HG23	2.15	0.47
7:AJ:29:LYS:HB2	7:AJ:105:VAL:HG21	1.96	0.47
7:AJ:113:GLU:O	7:AJ:119:ARG:NH1	2.46	0.47
7:AJ:155:ARG:CG	7:AJ:155:ARG:NH1	2.78	0.47
8:AK:41:ARG:HH22	8:AK:123:GLU:CD	2.23	0.47
8:AK:54:ASP:C	8:AK:56:LYS:H	2.22	0.47
8:AK:91:ARG:HH11	8:AK:91:ARG:HG2	1.80	0.47
9:AL:7:THR:HB	9:AL:83:ARG:HD2	1.96	0.47
9:AL:17:VAL:HG21	9:AL:81:ILE:N	2.30	0.47
9:AL:77:ILE:HG22	9:AL:81:ILE:HG13	1.96	0.47
10:AM:5:ARG:O	10:AM:98:ILE:HA	2.14	0.47
10:AM:6:ILE:HG22	10:AM:98:ILE:CG1	2.45	0.47
12:AO:54:LYS:HZ1	12:AO:75:HIS:HE1	1.63	0.47
15:AR:23:GLY:O	15:AR:28:GLN:HG3	2.15	0.47
18:AU:71:LYS:HA	18:AU:74:ARG:CD	2.45	0.47
20:AW:32:ALA:O	20:AW:36:LEU:HB2	2.15	0.47
24:BA:180:G:OP2	52:B7:32:LYS:CE	2.63	0.47
24:BA:324:A:H2'	24:BA:325:G:O4'	2.15	0.47
24:BA:554:U:O2'	24:BA:556:G:C8	2.59	0.47
24:BA:585:G:N1	24:BA:1253:A:OP1	2.47	0.47
24:BA:621:A:C2	24:BA:622:G:C4	3.03	0.47
24:BA:634:C:H2'	24:BA:635:C:C6	2.49	0.47
24:BA:704:G:O2'	24:BA:705:A:P	2.72	0.47
24:BA:1528:A:N1	24:BA:1543:A:C2	2.81	0.47
24:BA:1528:A:H2	24:BA:1543:A:N1	2.13	0.47
24:BA:1639:U:H2'	24:BA:1640:C:C5'	2.44	0.47
24:BA:1647:G:H3'	24:BA:1647:G:OP2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1755:A:H2'	24:BA:1756:G:H5'	1.96	0.47
24:BA:1813:G:H1'	26:BD:50:THR:OG1	2.15	0.47
24:BA:2057:A:H2'	24:BA:2058:A:O4'	2.14	0.47
24:BA:2116:G:O6	24:BA:2172:U:C5	2.68	0.47
24:BA:2312:U:H2'	24:BA:2313:C:H6	1.79	0.47
24:BA:2340:G:HO2'	24:BA:2341:G:H5'	1.79	0.47
24:BA:2497:A:H1'	24:BA:2498:C:C5	2.47	0.47
24:BA:2562:U:C2'	24:BA:2563:U:H5'	2.44	0.47
25:BB:66:A:C2'	25:BB:67:G:OP2	2.63	0.47
26:BD:27:THR:CG2	26:BD:28:GLU:N	2.55	0.47
26:BD:44:ASN:HB2	26:BD:49:ILE:HA	1.92	0.47
26:BD:80:ALA:HB2	26:BD:96:HIS:CD2	2.50	0.47
26:BD:117:VAL:HG21	26:BD:128:GLY:O	2.15	0.47
28:BF:20:LEU:HD13	28:BF:199:TRP:CZ3	2.50	0.47
28:BF:61:GLY:O	28:BF:62:ARG:O	2.33	0.47
28:BF:105:VAL:C	28:BF:107:LYS:H	2.23	0.47
28:BF:192:LEU:HD21	28:BF:194:MET:HE2	1.97	0.47
29:BG:102:PHE:C	29:BG:104:GLU:N	2.72	0.47
29:BG:111:LEU:CB	29:BG:112:PRO:HD3	2.33	0.47
29:BG:122:PRO:HD3	29:BG:180:PHE:O	2.14	0.47
31:BK:94:ALA:O	31:BK:95:LYS:C	2.57	0.47
32:BM:28:THR:CA	32:BM:106:MET:HE1	2.45	0.47
32:BM:56:ASN:HA	32:BM:124:ALA:HA	1.97	0.47
33:BN:87:ILE:HG22	33:BN:92:GLU:N	2.28	0.47
35:BP:61:GLY:O	35:BP:63:LYS:N	2.39	0.47
36:B0:104:ARG:H	36:B0:108:GLY:HA2	1.79	0.47
37:BQ:7:TYR:O	37:BQ:9:ARG:N	2.48	0.47
37:BQ:49:VAL:HG22	37:BQ:80:LEU:CD1	2.42	0.47
39:B1:17:ILE:O	39:B1:20:LEU:N	2.47	0.47
39:B1:82:GLY:HA3	39:B1:113:ALA:HB1	1.96	0.47
40:B2:69:LYS:HD3	40:B2:85:LYS:NZ	2.30	0.47
43:BU:31:LEU:HD22	43:BU:33:LYS:NZ	2.29	0.47
44:BV:76:LEU:HD23	44:BV:76:LEU:H	1.80	0.47
44:BV:165:VAL:CG2	44:BV:169:GLU:HG2	2.44	0.47
46:BZ:56:GLN:H	46:BZ:56:GLN:CD	2.23	0.47
47:BW:10:LEU:O	47:BW:12:GLU:N	2.48	0.47
47:BW:25:VAL:C	47:BW:27:GLU:N	2.72	0.47
50:B5:4:HIS:CB	50:B5:5:PRO:CD	2.76	0.47
51:B6:50:ARG:O	51:B6:51:GLU:C	2.57	0.47
53:B8:33:ASN:O	53:B8:34:TRP:CD1	2.68	0.47
1:CA:96:G:C2'	1:CA:97:U:C5'	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:266:G:O2'	1:CA:267:C:P	2.72	0.47
1:CA:279:A:H5"	1:CA:280:C:H3'	1.96	0.47
1:CA:324:G:O2'	1:CA:326:G:N7	2.38	0.47
1:CA:407:G:O2'	4:CG:116:GLN:HG3	2.15	0.47
1:CA:428:G:O2'	1:CA:429:U:OP2	2.30	0.47
1:CA:585:G:O2'	1:CA:879:C:H5"	2.13	0.47
1:CA:625:G:H2'	1:CA:626:U:H6	1.77	0.47
1:CA:651:C:H2'	1:CA:652:U:O4'	2.15	0.47
1:CA:872:A:C5	1:CA:874:G:C8	3.02	0.47
1:CA:980:C:H3'	1:CA:981:U:C6	2.50	0.47
1:CA:1052:U:N3	1:CA:1200:C:N3	2.62	0.47
1:CA:1054:C:O2'	1:CA:1055:A:C5'	2.63	0.47
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.77	0.47
1:CA:1146:A:H8	1:CA:1146:A:H5'	1.78	0.47
1:CA:1322:C:H5'	13:CP:100:GLY:HA2	1.97	0.47
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.50	0.47
1:CA:1374:A:O2'	7:CJ:28:ASN:HB3	2.13	0.47
2:CE:33:TYR:C	2:CE:33:TYR:HD1	2.23	0.47
2:CE:71:VAL:HG23	2:CE:164:VAL:HG13	1.97	0.47
2:CE:220:ASP:O	2:CE:223:ILE:N	2.48	0.47
2:CE:224:GLN:HA	2:CE:229:VAL:HG23	1.97	0.47
3:CF:143:GLU:C	3:CF:145:GLY:H	2.23	0.47
4:CG:11:LEU:CD2	4:CG:66:ARG:HD3	2.41	0.47
4:CG:114:ARG:NH1	4:CG:114:ARG:CG	2.77	0.47
4:CG:153:ARG:CZ	4:CG:181:MET:HG3	2.44	0.47
5:CH:63:ARG:C	5:CH:66:MET:HE2	2.39	0.47
9:CL:80:GLY:C	9:CL:82:ALA:N	2.70	0.47
13:CP:28:ALA:C	13:CP:30:ALA:N	2.70	0.47
13:CP:30:ALA:O	13:CP:33:ALA:N	2.47	0.47
14:CQ:12:ARG:C	14:CQ:14:PRO:CD	2.80	0.47
14:CQ:40:CYS:O	14:CQ:42:ILE:N	2.48	0.47
15:CR:50:HIS:O	15:CR:53:HIS:N	2.47	0.47
17:CT:63:ARG:HG2	17:CT:64:PRO:CD	2.45	0.47
23:C1:13:A:O2'	23:C1:14:A:P	2.72	0.47
23:C1:16:A:H2'	23:C1:17:U:O4'	2.14	0.47
24:DA:52:A:N7	24:DA:119:A:N6	2.62	0.47
24:DA:137(A):G:H2'	24:DA:139:G:N7	2.29	0.47
24:DA:153:C:O2'	24:DA:154:G:H5'	2.14	0.47
24:DA:222:A:O2'	24:DA:223:A:O5'	2.29	0.47
24:DA:237:C:O2'	24:DA:238:C:H5'	2.15	0.47
24:DA:278:A:H5'	24:DA:278:A:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:507:A:C5'	24:DA:508:G:H5'	2.45	0.47
24:DA:943:U:OP2	34:DO:36:LYS:HG2	2.13	0.47
24:DA:974:G:N2	24:DA:989:G:O2'	2.47	0.47
24:DA:1042:G:H2'	24:DA:1043:C:H6	1.78	0.47
24:DA:1078:U:C2'	24:DA:1079:C:OP2	2.63	0.47
24:DA:1188:U:H4'	40:D2:79:VAL:CG2	2.45	0.47
24:DA:1236:G:C4'	24:DA:1237:A:OP1	2.56	0.47
24:DA:1278:A:OP1	36:D0:36:THR:HG22	2.14	0.47
24:DA:1472:A:H2'	24:DA:1473:G:O4'	2.15	0.47
24:DA:1926:U:C2	24:DA:1929:G:C6	3.02	0.47
24:DA:1936:A:C8	24:DA:1940:U:O2	2.68	0.47
24:DA:2524:G:H2'	24:DA:2741:A:C2	2.50	0.47
24:DA:2630:G:O4'	24:DA:2894:G:H1'	2.14	0.47
24:DA:2656:U:C6	24:DA:2656:U:C3'	2.97	0.47
24:DA:2756:U:H4'	24:DA:2757:A:OP1	2.15	0.47
24:DA:2822:G:H2'	24:DA:2823:A:H5"	1.97	0.47
25:DB:51:G:H5'	25:DB:52:A:OP2	2.15	0.47
26:DD:32:SER:O	26:DD:33:LEU:CB	2.60	0.47
26:DD:177:LEU:C	26:DD:179:SER:H	2.23	0.47
26:DD:231:HIS:ND1	26:DD:232:PRO:HD2	2.30	0.47
27:DE:61:ARG:O	27:DE:63:LEU:CG	2.57	0.47
27:DE:120:TRP:O	27:DE:121:ASN:HB2	2.14	0.47
29:DG:14:GLU:O	29:DG:17:PRO:HG2	2.15	0.47
30:DH:67:LEU:O	30:DH:71:LEU:HB2	2.15	0.47
30:DH:154:PRO:CG	30:DH:162:ILE:O	2.61	0.47
31:DK:54:GLN:O	31:DK:57:ARG:HG3	2.14	0.47
31:DK:65:ALA:C	31:DK:67:ARG:N	2.71	0.47
31:DK:74:ASN:ND2	31:DK:75:LEU:N	2.63	0.47
32:DM:15:LEU:HD13	32:DM:15:LEU:C	2.40	0.47
32:DM:57:ALA:CA	32:DM:60:ILE:HD11	2.44	0.47
32:DM:67:LEU:O	32:DM:88:GLU:HG3	2.14	0.47
33:DN:104:ARG:HD3	38:DR:36:GLU:OE2	2.15	0.47
34:DO:115:LEU:CD1	34:DO:116:GLY:N	2.78	0.47
34:DO:126:VAL:HA	34:DO:145:PRO:HD2	1.95	0.47
36:D0:1:MET:SD	36:D0:1:MET:N	2.75	0.47
36:D0:56:LYS:HE2	36:D0:94:TYR:OH	2.15	0.47
38:DR:29:ARG:NH1	38:DR:46:GLU:OE1	2.48	0.47
39:D1:92:ARG:CZ	39:D1:94:ASN:HD22	2.27	0.47
39:D1:107:ALA:O	39:D1:110:VAL:HB	2.14	0.47
41:DS:81:ALA:C	41:DS:82:LEU:HD12	2.40	0.47
42:DT:35:THR:O	42:DT:37:THR:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DT:43:VAL:HG11	42:DT:51:VAL:HG21	1.97	0.47
43:DU:19:LYS:HE3	43:DU:20:TYR:CE1	2.49	0.47
43:DU:39:VAL:O	43:DU:40:GLU:OE2	2.32	0.47
43:DU:56:PRO:O	43:DU:58:GLY:N	2.47	0.47
44:DV:120:ILE:HD12	44:DV:171:ILE:N	2.29	0.47
44:DV:125:LEU:HG	44:DV:164:ALA:CB	2.45	0.47
46:DZ:83:GLU:OE1	46:DZ:85:LEU:HB2	2.15	0.47
50:D5:57:VAL:O	50:D5:57:VAL:HG13	2.13	0.47
51:D6:20:ASN:O	51:D6:21:TYR:HB2	2.15	0.47
1:AA:445:G:H2'	1:AA:446:G:H8	1.79	0.47
1:AA:781:A:H5'	1:AA:782:A:OP2	2.15	0.47
1:AA:934:C:H5	1:AA:1344:C:H2'	1.80	0.47
1:AA:968:A:C4'	1:AA:969:A:OP2	2.62	0.47
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.31	0.47
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.50	0.47
1:AA:1094:G:H2'	1:AA:1095:U:OP2	2.14	0.47
1:AA:1350:A:H2'	1:AA:1351:U:O4'	2.15	0.47
2:AE:10:LEU:HD13	2:AE:10:LEU:C	2.40	0.47
6:AI:83:ASP:N	6:AI:83:ASP:OD2	2.47	0.47
7:AJ:38:LEU:H	7:AJ:38:LEU:CD1	2.27	0.47
8:AK:40:ALA:O	8:AK:42:GLU:N	2.47	0.47
9:AL:9:ARG:HB3	9:AL:104:ARG:NE	2.30	0.47
9:AL:22:GLY:C	9:AL:24:GLY:N	2.73	0.47
11:AN:13:GLN:HG3	11:AN:76:GLY:O	2.15	0.47
11:AN:24:SER:OG	11:AN:25:TYR:N	2.46	0.47
19:AV:36:ARG:HG3	19:AV:72:GLY:H	1.78	0.47
24:BA:30:G:C5	24:BA:31:C:C4	3.03	0.47
24:BA:208:C:H2'	24:BA:209:C:C6	2.48	0.47
24:BA:528:A:H2	24:BA:2043:C:C5'	2.27	0.47
24:BA:530:G:N3	24:BA:2021:C:O2'	2.48	0.47
24:BA:546:C:H6	24:BA:546:C:OP1	1.98	0.47
24:BA:654(C):G:C5	24:BA:654(S):G:N2	2.82	0.47
24:BA:945:A:C2	24:BA:2448:A:C6	3.03	0.47
24:BA:2178:C:O2'	24:BA:2179:C:H5'	2.14	0.47
24:BA:2838:G:O2'	36:B0:45:ARG:NH1	2.48	0.47
26:BD:213:ARG:HG3	26:BD:213:ARG:HH11	1.80	0.47
26:BD:246:PRO:HB2	26:BD:255:LYS:CD	2.45	0.47
29:BG:81:LYS:N	29:BG:81:LYS:CD	2.72	0.47
29:BG:96:ARG:O	29:BG:98:ARG:N	2.47	0.47
29:BG:101:ILE:HD12	29:BG:105:LYS:HE2	1.97	0.47
30:BH:16:SER:HB3	30:BH:27:LYS:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:34:GLU:CD	30:BH:35:VAL:N	2.73	0.47
30:BH:89:ILE:CG1	30:BH:90:LYS:H	2.28	0.47
31:BK:101:LEU:HD23	31:BK:101:LEU:N	2.30	0.47
32:BM:62:VAL:CG2	32:BM:66:LYS:HG3	2.44	0.47
34:BO:90:ARG:HG2	34:BO:91:PHE:CD1	2.47	0.47
35:BP:66:ILE:HD13	35:BP:66:ILE:N	2.30	0.47
37:BQ:11:LYS:HD3	37:BQ:91:PRO:HD3	1.96	0.47
40:B2:67:GLY:O	40:B2:88:ARG:CD	2.62	0.47
44:BV:31:ARG:HG2	44:BV:31:ARG:NH1	2.30	0.47
45:B3:50:ASN:ND2	45:B3:83:PRO:HD3	2.30	0.47
46:BZ:73:LEU:C	46:BZ:75:GLU:H	2.21	0.47
47:BW:65:ASN:ND2	47:BW:69:ARG:NH2	2.48	0.47
49:B4:24:THR:CG2	49:B4:25:TYR:N	2.68	0.47
49:B4:40:HIS:H	49:B4:41:PRO:HD3	1.75	0.47
49:B4:58:ARG:O	49:B4:62:ARG:N	2.47	0.47
50:B5:31:VAL:HG13	50:B5:42:PRO:HG3	1.97	0.47
1:CA:46:G:O2'	1:CA:365:U:H1'	2.15	0.47
1:CA:106:C:O2'	1:CA:107:G:H5'	2.15	0.47
1:CA:402:G:O2'	1:CA:403:C:H5'	2.14	0.47
1:CA:748:C:O2'	1:CA:749:C:O5'	2.31	0.47
1:CA:932:C:C2	1:CA:1386:G:C2	3.03	0.47
1:CA:1312:G:P	49:D4:58:ARG:HH12	2.38	0.47
1:CA:1355:G:O2'	1:CA:1356:G:H5'	2.15	0.47
1:CA:1533:C:H2'	1:CA:1534:A:H5"	1.95	0.47
2:CE:67:THR:C	2:CE:68:ILE:HD12	2.40	0.47
2:CE:92:TYR:C	2:CE:92:TYR:HD1	2.22	0.47
2:CE:116:GLU:HA	2:CE:119:GLU:HB3	1.96	0.47
2:CE:158:LEU:HD12	2:CE:158:LEU:C	2.38	0.47
3:CF:95:THR:CG2	3:CF:96:GLY:H	2.10	0.47
3:CF:203:PHE:O	3:CF:204:LEU:HD23	2.14	0.47
6:CI:32:ASN:HD22	6:CI:32:ASN:H	1.62	0.47
7:CJ:50:ILE:HG21	7:CJ:61:VAL:HG21	1.97	0.47
12:CO:127:GLU:O	12:CO:128:ALA:CB	2.62	0.47
13:CP:65:LYS:NZ	49:D4:52:THR:HG21	2.30	0.47
15:CR:76:GLU:O	15:CR:78:TYR:N	2.48	0.47
17:CT:82:MET:C	17:CT:84:LEU:N	2.72	0.47
18:CU:31:LEU:H	18:CU:31:LEU:CD2	2.27	0.47
23:C1:9:G:O2'	23:C1:10:G:C5'	2.59	0.47
24:DA:175:G:C2'	24:DA:176:G:H5'	2.43	0.47
24:DA:265:A:H2'	24:DA:266:G:O4'	2.15	0.47
24:DA:385:C:O2	34:DO:71:VAL:HG21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:405:U:O2	24:DA:405:U:C2'	2.62	0.47
24:DA:701:G:H2'	24:DA:702:G:H5"	1.97	0.47
24:DA:992:C:H2'	24:DA:993:G:H8	1.78	0.47
24:DA:1212:G:H1'	24:DA:1237:A:N6	2.30	0.47
24:DA:1215:G:C2'	24:DA:1216:G:H5'	2.45	0.47
24:DA:1221:C:C2	24:DA:1222:C:C5	3.03	0.47
24:DA:1317:A:H2'	24:DA:1318:C:C6	2.50	0.47
24:DA:1374:G:H2'	24:DA:1375:C:C6	2.50	0.47
24:DA:1774:C:O2	24:DA:1774:C:H2'	2.15	0.47
24:DA:2389:G:C5'	24:DA:2390:U:H5'	2.28	0.47
24:DA:2572:A:N7	27:DE:144:ARG:HB3	2.30	0.47
24:DA:2751:G:O5'	24:DA:2751:G:C8	2.65	0.47
24:DA:2848:G:O2'	24:DA:2849:U:P	2.72	0.47
24:DA:2867:G:O2'	24:DA:2868:A:H8	1.97	0.47
26:DD:136:ILE:HD12	26:DD:136:ILE:N	2.30	0.47
27:DE:22:PRO:O	27:DE:22:PRO:CG	2.63	0.47
27:DE:54:GLN:N	27:DE:54:GLN:CD	2.73	0.47
27:DE:56:PRO:O	27:DE:57:LYS:CB	2.61	0.47
29:DG:106:LEU:HA	29:DG:110:ALA:HB3	1.95	0.47
29:DG:121:ASN:HD22	29:DG:122:PRO:HD2	1.79	0.47
30:DH:18:GLU:OE2	30:DH:18:GLU:HA	2.15	0.47
31:DK:9:LEU:O	31:DK:10:GLU:O	2.33	0.47
34:DO:81:GLN:HB3	34:DO:110:TYR:HB3	1.97	0.47
34:DO:125:VAL:C	34:DO:145:PRO:HD2	2.39	0.47
38:DR:3:ARG:O	38:DR:4:GLY:C	2.58	0.47
40:D2:4:ILE:HA	40:D2:12:TYR:O	2.14	0.47
40:D2:6:LYS:HD3	40:D2:11:GLN:HG2	1.96	0.47
42:DT:87:GLN:C	42:DT:88:LYS:HG3	2.40	0.47
43:DU:44:ILE:O	43:DU:62:GLU:O	2.32	0.47
45:D3:37:LEU:N	45:D3:59:LEU:O	2.41	0.47
45:D3:53:MET:HB3	45:D3:59:LEU:HD23	1.97	0.47
49:D4:33:VAL:CG1	49:D4:34:GLU:H	2.22	0.47
49:D4:50:VAL:O	49:D4:50:VAL:HG13	2.15	0.47
1:AA:389:A:H2'	1:AA:389:A:N3	2.29	0.47
1:AA:779:C:O2'	1:AA:780:A:H5'	2.15	0.47
1:AA:795:C:H6	1:AA:795:C:O5'	1.98	0.47
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.49	0.47
2:AE:230:VAL:C	2:AE:231:GLU:HG3	2.38	0.47
4:AG:58:LEU:O	4:AG:61:LYS:N	2.44	0.47
5:AH:93:PRO:HA	5:AH:118:ILE:CD1	2.45	0.47
9:AL:9:ARG:HA	9:AL:13:ALA:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AO:12:ARG:O	12:AO:13:LYS:C	2.57	0.47
13:AP:4:ILE:HD11	13:AP:19:LEU:HD13	1.97	0.47
13:AP:12:ASN:O	13:AP:12:ASN:CG	2.58	0.47
14:AQ:12:ARG:HG2	14:AQ:14:PRO:CD	2.37	0.47
16:AS:58:TYR:O	16:AS:62:VAL:HG22	2.14	0.47
19:AV:23:ASN:HB2	19:AV:44:MET:HE2	1.96	0.47
20:AW:48:LYS:O	20:AW:49:ALA:C	2.57	0.47
22:AD:58:A:OP2	22:AD:58:A:C8	2.67	0.47
24:BA:11:G:C2'	24:BA:12:U:H5'	2.45	0.47
24:BA:153:C:OP1	46:BZ:88:LYS:HE3	2.15	0.47
24:BA:371:A:H1'	24:BA:373:U:C5	2.50	0.47
24:BA:601:C:H4'	28:BF:104:LYS:HZ3	1.80	0.47
24:BA:648:G:O4'	24:BA:2351:G:H5"	2.15	0.47
24:BA:1087:G:H2'	24:BA:1089:G:C1'	2.45	0.47
24:BA:1255:U:C5'	24:BA:1256:G:H5"	2.41	0.47
24:BA:1312:U:H3'	42:BT:63:LYS:CE	2.45	0.47
24:BA:2126:A:H1'	24:BA:2127:G:H8	1.80	0.47
24:BA:2250:G:C2	35:BP:82:ARG:CD	2.98	0.47
24:BA:2303:G:H2'	24:BA:2304:G:H5'	1.95	0.47
24:BA:2305:A:H2'	24:BA:2306:C:O4'	2.15	0.47
24:BA:2306:C:N4	29:BG:45:GLU:OE2	2.43	0.47
24:BA:2391:G:H1'	24:BA:2424:C:H41	1.80	0.47
24:BA:2401:U:H2'	24:BA:2402:C:H1'	1.97	0.47
24:BA:2517:C:HO2'	24:BA:2518:A:P	2.38	0.47
24:BA:2779:U:H1'	24:BA:2781:A:C6	2.50	0.47
27:BE:50:GLY:O	27:BE:51:PHE:HB3	2.14	0.47
27:BE:101:ARG:HH11	27:BE:171:GLU:N	2.12	0.47
29:BG:5:VAL:CG1	29:BG:6:ALA:H	2.24	0.47
29:BG:104:GLU:HG2	49:B4:23:GLU:CG	2.40	0.47
30:BH:17:VAL:HG11	30:BH:45:VAL:HG21	1.97	0.47
31:BK:86:THR:O	31:BK:87:LYS:C	2.57	0.47
33:BN:88:ASN:C	33:BN:90:GLN:H	2.23	0.47
34:BO:83:VAL:HG13	34:BO:114:ILE:HA	1.95	0.47
36:B0:52:ILE:HG21	36:B0:94:TYR:CD2	2.50	0.47
36:B0:96:ARG:HG2	36:B0:97:VAL:N	2.29	0.47
38:BR:96:ARG:CG	38:BR:97:ALA:N	2.77	0.47
41:BS:25:ARG:HA	41:BS:71:VAL:HG11	1.97	0.47
46:BZ:92:LYS:O	46:BZ:93:GLU:CG	2.63	0.47
1:CA:9:G:H2'	1:CA:10:A:C8	2.48	0.47
1:CA:356:A:O2'	1:CA:357:G:H5'	2.15	0.47
1:CA:583:A:N6	1:CA:758:G:O2'	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1201:A:C2'	1:CA:1202:G:OP2	2.62	0.47
2:CE:178:ARG:NH2	8:CK:68:ARG:NH2	2.62	0.47
5:CH:77:PRO:HG2	5:CH:142:LEU:HD22	1.97	0.47
6:CI:69:GLU:O	6:CI:71:ARG:N	2.48	0.47
7:CJ:50:ILE:CG2	7:CJ:61:VAL:HG21	2.45	0.47
8:CK:86:ILE:HG12	8:CK:135:CYS:HA	1.96	0.47
11:CN:33:THR:HB	11:CN:37:GLY:C	2.40	0.47
16:CS:55:ARG:O	16:CS:56:ALA:C	2.57	0.47
19:CV:40:ILE:CG1	19:CV:41:VAL:N	2.78	0.47
20:CW:93:GLU:HG2	20:CW:93:GLU:O	2.14	0.47
22:CC:20:U:H3'	22:CC:21:A:H5'	1.96	0.47
24:DA:221:A:H4'	24:DA:222:A:O5'	2.15	0.47
24:DA:360:G:O2'	24:DA:361:G:H5'	2.15	0.47
24:DA:469:G:C2'	24:DA:470:A:H5"	2.45	0.47
24:DA:922:U:H2'	24:DA:923:C:C6	2.50	0.47
24:DA:1022:G:N2	24:DA:1142(A):A:C2	2.77	0.47
24:DA:1085:A:HO2'	24:DA:1086:A:P	2.37	0.47
24:DA:1086:A:N3	24:DA:1086:A:C2'	2.78	0.47
24:DA:1195:G:C2'	24:DA:1196:C:H5'	2.45	0.47
24:DA:1614:A:H62	41:DS:93:ALA:HB2	1.80	0.47
24:DA:1782:C:H1'	24:DA:2609:U:O4'	2.15	0.47
24:DA:2795:G:C3'	24:DA:2797:U:C5'	2.79	0.47
24:DA:2804:C:O2'	24:DA:2805:G:H5'	2.15	0.47
25:DB:45:A:C1'	29:DG:95:ARG:NH1	2.77	0.47
26:DD:145:VAL:O	26:DD:153:ALA:HA	2.14	0.47
28:DF:109:GLY:O	28:DF:110:LEU:C	2.58	0.47
28:DF:162:LEU:HD23	28:DF:165:ARG:HH21	1.79	0.47
29:DG:109:VAL:C	29:DG:112:PRO:HD2	2.40	0.47
30:DH:104:GLU:HG3	30:DH:114:VAL:HG22	1.96	0.47
31:DK:133:HIS:CB	31:DK:134:PRO:CD	2.92	0.47
32:DM:42:TRP:HA	32:DM:48:MET:CE	2.42	0.47
32:DM:73:THR:HA	32:DM:83:LYS:O	2.15	0.47
33:DN:53:LYS:CD	33:DN:56:ASP:OD1	2.63	0.47
36:D0:61:HIS:O	36:D0:65:LEU:HD13	2.14	0.47
38:DR:51:ARG:CG	38:DR:98:LYS:HG3	2.44	0.47
41:DS:4:LYS:HA	41:DS:106:ILE:HA	1.97	0.47
44:DV:26:GLY:HA3	44:DV:86:VAL:O	2.14	0.47
44:DV:156:LYS:HB2	44:DV:158:PRO:HD3	1.96	0.47
1:AA:90:C:O2	1:AA:90:C:C2'	2.63	0.47
1:AA:279:A:H5"	1:AA:281:G:O4'	2.15	0.47
1:AA:428:G:C1'	1:AA:430:A:C8	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:432:A:H3'	1:AA:433:C:H6	1.80	0.47
1:AA:481:G:C4'	1:AA:482:A:OP1	2.62	0.47
1:AA:715:A:O2'	1:AA:716:A:H5'	2.15	0.47
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.97	0.47
1:AA:981:U:H5'	14:AQ:21:TYR:CZ	2.50	0.47
1:AA:991:U:O2	1:AA:993:G:H1'	2.15	0.47
1:AA:1126:U:N3	1:AA:1281:U:O4'	2.44	0.47
1:AA:1155:G:H2'	1:AA:1156:G:C5'	2.45	0.47
3:AF:186:PHE:HE1	3:AF:197:GLY:HA3	1.79	0.47
4:AG:14:ARG:O	4:AG:39:PRO:HG3	2.15	0.47
4:AG:86:LYS:HA	4:AG:86:LYS:CE	2.45	0.47
6:AI:35:ALA:CA	6:AI:67:MET:HB3	2.45	0.47
7:AJ:85:TYR:CE2	7:AJ:154:TYR:HE1	2.33	0.47
10:AM:46:ARG:HG2	10:AM:64:GLU:CB	2.45	0.47
11:AN:11:LYS:HE3	24:BA:2144:U:C4	2.46	0.47
11:AN:114:VAL:O	11:AN:114:VAL:HG13	2.15	0.47
13:AP:82:MET:O	13:AP:83:ASP:C	2.57	0.47
13:AP:108:ARG:HH11	13:AP:108:ARG:HG3	1.80	0.47
19:AV:42:PRO:O	19:AV:43:GLU:CB	2.54	0.47
20:AW:82:SER:OG	20:AW:83:ARG:N	2.47	0.47
24:BA:235:U:H2'	24:BA:236:C:C6	2.50	0.47
24:BA:881:G:H2'	24:BA:882:G:OP1	2.15	0.47
24:BA:883:G:O2'	24:BA:884:C:P	2.72	0.47
24:BA:1464:C:C2'	24:BA:1528:A:H8	2.28	0.47
24:BA:1681:G:C2'	24:BA:1762:A:O2'	2.63	0.47
24:BA:2405:G:O2'	24:BA:2411:A:N6	2.48	0.47
24:BA:2531:A:H2	24:BA:2658:C:O2	1.98	0.47
24:BA:2720:U:H2'	24:BA:2721:A:C8	2.50	0.47
24:BA:2813:A:C6	24:BA:2814:C:C4	3.03	0.47
25:BB:57:A:C4'	29:BG:30:GLU:HG3	2.44	0.47
25:BB:73:A:N3	25:BB:73:A:H2'	2.30	0.47
26:BD:35:LYS:HA	26:BD:64:ILE:HG22	1.96	0.47
26:BD:132:PRO:O	26:BD:133:LEU:C	2.57	0.47
27:BE:71:GLY:C	27:BE:73:GLU:N	2.72	0.47
28:BF:53:THR:HG23	28:BF:56:GLU:H	1.80	0.47
28:BF:117:ARG:NH1	28:BF:120:GLU:OE1	2.47	0.47
28:BF:157:VAL:HB	28:BF:194:MET:HB3	1.96	0.47
30:BH:19:VAL:CG1	30:BH:43:VAL:HG22	2.45	0.47
30:BH:89:ILE:CD1	30:BH:89:ILE:H	2.28	0.47
30:BH:122:THR:O	30:BH:133:VAL:HG13	2.15	0.47
31:BK:32:PRO:C	31:BK:34:GLY:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:35:ARG:C	32:BM:37:LYS:H	2.23	0.47
34:BO:37:GLY:O	34:BO:39:LYS:N	2.47	0.47
44:BV:165:VAL:CG1	44:BV:166:SER:H	2.21	0.47
45:B3:84:LEU:HD22	45:B3:84:LEU:O	2.15	0.47
47:BW:17:SER:HA	47:BW:20:GLU:CB	2.44	0.47
51:B6:18:ARG:O	51:B6:19:ARG:C	2.58	0.47
53:B8:46:ARG:HH11	53:B8:46:ARG:CB	2.27	0.47
1:CA:533:A:O2'	1:CA:534:U:P	2.73	0.47
1:CA:562:C:H5"	1:CA:563:A:OP1	2.15	0.47
1:CA:792:A:N3	1:CA:794:A:N6	2.62	0.47
1:CA:923:A:O2'	1:CA:1399:C:OP2	2.32	0.47
4:CG:31:CYS:O	4:CG:32:ALA:CB	2.62	0.47
4:CG:126:ILE:HG22	4:CG:127:THR:H	1.80	0.47
7:CJ:70:LYS:O	7:CJ:138:LYS:HE3	2.15	0.47
7:CJ:140:ASP:HA	7:CJ:143:ARG:HH11	1.79	0.47
11:CN:32:ILE:HD12	11:CN:72:ALA:CB	2.36	0.47
22:CD:72:A:H2'	22:CD:73:A:O4'	2.14	0.47
24:DA:57:C:H2'	24:DA:58:G:O4'	2.15	0.47
24:DA:227:A:OP1	34:DO:76:LYS:HE3	2.15	0.47
24:DA:893:C:H3'	24:DA:894:C:C5	2.50	0.47
24:DA:943:U:OP2	34:DO:36:LYS:CE	2.63	0.47
24:DA:979:G:C4	24:DA:982:C:N4	2.83	0.47
24:DA:1397:U:H3'	24:DA:1398:C:C5	2.51	0.47
24:DA:1816:G:N7	26:DD:62:TYR:CE1	2.83	0.47
24:DA:2472:G:H2'	24:DA:2475:C:H42	1.79	0.47
24:DA:2732:G:H3'	24:DA:2733:A:C5'	2.45	0.47
26:DD:31:LYS:C	26:DD:32:SER:O	2.54	0.47
26:DD:72:LYS:CG	26:DD:103:ARG:NH2	2.77	0.47
29:DG:13:GLU:O	29:DG:13:GLU:HG3	2.14	0.47
29:DG:88:ILE:O	29:DG:88:ILE:CD1	2.54	0.47
32:DM:35:ARG:HG3	32:DM:35:ARG:O	2.15	0.47
32:DM:96:GLU:O	32:DM:97:ARG:C	2.57	0.47
33:DN:37:ASP:O	33:DN:62:VAL:HG23	2.14	0.47
35:DP:87:LYS:O	35:DP:89:ASN:N	2.43	0.47
37:DQ:59:LYS:HG2	37:DQ:60:GLY:N	2.13	0.47
39:D1:66:ASN:CB	39:D1:76:TYR:HB2	2.44	0.47
42:DT:14:SER:O	42:DT:15:GLU:C	2.57	0.47
43:DU:68:HIS:O	43:DU:71:LYS:HB2	2.14	0.47
44:DV:95:PRO:O	44:DV:96:VAL:HG13	2.15	0.47
44:DV:111:VAL:O	44:DV:113:ALA:N	2.48	0.47
46:DZ:76:ARG:H	46:DZ:76:ARG:CD	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:45:VAL:HG12	50:D5:45:VAL:O	2.13	0.47
1:AA:87:A:O5'	1:AA:87:A:C8	2.68	0.46
1:AA:185:A:O2'	20:AW:78:ALA:HB2	2.14	0.46
1:AA:210:U:OP2	1:AA:210:U:H6	1.97	0.46
1:AA:234:C:H2'	1:AA:235:C:H6	1.80	0.46
1:AA:961:U:O2'	1:AA:962:C:H5'	2.14	0.46
1:AA:1099:G:H5'	2:AE:96:ARG:NH1	2.31	0.46
1:AA:1379:G:C5'	7:AJ:3:ARG:HH21	2.26	0.46
2:AE:17:PHE:CD1	2:AE:42:ILE:HG12	2.49	0.46
2:AE:19:HIS:O	2:AE:20:GLU:O	2.32	0.46
2:AE:21:ARG:HA	2:AE:39:ILE:HA	1.97	0.46
2:AE:109:SER:HA	2:AE:112:VAL:HG23	1.97	0.46
2:AE:206:ASP:O	2:AE:211:ILE:HD11	2.15	0.46
3:AF:11:ARG:O	3:AF:15:THR:O	2.33	0.46
4:AG:30:LYS:HG2	4:AG:35:ARG:HD2	1.96	0.46
5:AH:56:GLN:NE2	5:AH:56:GLN:CA	2.61	0.46
5:AH:115:VAL:O	5:AH:115:VAL:HG23	2.15	0.46
9:AL:99:LEU:HB3	9:AL:101:PHE:CD1	2.50	0.46
10:AM:74:ILE:CD1	10:AM:74:ILE:H	2.28	0.46
11:AN:66:LEU:O	11:AN:67:ASP:C	2.57	0.46
13:AP:94:ARG:C	13:AP:96:LEU:H	2.22	0.46
15:AR:31:LEU:H	15:AR:31:LEU:CD1	2.28	0.46
16:AS:20:VAL:HG23	16:AS:21:VAL:N	2.30	0.46
16:AS:56:ALA:O	16:AS:60:LEU:HG	2.14	0.46
17:AT:44:ALA:HA	17:AT:71:PHE:O	2.15	0.46
22:AD:9:G:H5"	22:AD:10:G:OP2	2.14	0.46
24:BA:330:A:O2'	24:BA:331:A:C8	2.68	0.46
24:BA:572:A:C2	24:BA:2033:A:C2	3.03	0.46
24:BA:778:G:C5'	26:BD:48:ARG:HD2	2.45	0.46
24:BA:966:G:H2'	24:BA:967:C:H6	1.79	0.46
24:BA:1055:G:H2'	24:BA:1056:G:C5'	2.45	0.46
24:BA:1129:A:O2'	24:BA:1130:U:OP2	2.28	0.46
24:BA:1652:A:H62	36:B0:11:ASN:HD21	1.61	0.46
24:BA:2101:G:H2'	24:BA:2102:U:C6	2.50	0.46
24:BA:2145:C:OP1	24:BA:2145:C:C6	2.68	0.46
24:BA:2212:A:OP1	24:BA:2212:A:H4'	2.16	0.46
24:BA:2239:G:O2'	24:BA:2240:C:H5'	2.15	0.46
24:BA:2439:A:C8	24:BA:2439:A:C5'	2.97	0.46
24:BA:2471:C:H3'	24:BA:2472:G:H8	1.79	0.46
24:BA:2588:G:H2'	24:BA:2589:A:O4'	2.15	0.46
24:BA:2656:U:H3'	24:BA:2656:U:H6	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2884:U:C2'	24:BA:2885:C:H5'	2.45	0.46
25:BB:51:G:N7	37:BQ:62:LYS:NZ	2.53	0.46
26:BD:74:GLY:O	26:BD:118:VAL:HG21	2.15	0.46
27:BE:47:VAL:CG1	27:BE:48:GLN:H	1.98	0.46
27:BE:58:ARG:HA	27:BE:58:ARG:CZ	2.45	0.46
27:BE:62:PRO:C	27:BE:64:LYS:N	2.72	0.46
27:BE:70:ALA:O	27:BE:72:VAL:HG23	2.14	0.46
27:BE:77:ILE:O	27:BE:78:LEU:O	2.33	0.46
27:BE:100:GLU:O	27:BE:172:VAL:HG23	2.15	0.46
30:BH:20:ALA:O	30:BH:22:GLY:N	2.48	0.46
31:BK:78:THR:CB	31:BK:104:GLN:NE2	2.73	0.46
35:BP:86:GLY:C	35:BP:88:GLY:N	2.72	0.46
39:B1:76:TYR:CE2	39:B1:80:ILE:HG13	2.50	0.46
39:B1:92:ARG:NH1	40:B2:11:GLN:H	2.11	0.46
40:B2:44:LYS:O	40:B2:46:VAL:HG12	2.14	0.46
41:BS:17:VAL:O	41:BS:20:VAL:HG13	2.14	0.46
45:B3:51:VAL:HG22	45:B3:81:VAL:HG23	1.95	0.46
47:BW:40:SER:C	47:BW:42:GLY:H	2.22	0.46
1:CA:89:U:H2'	1:CA:90:C:C6	2.49	0.46
1:CA:234:C:H2'	1:CA:235:C:H6	1.80	0.46
1:CA:375:U:O3'	16:CS:6:LEU:HB2	2.15	0.46
1:CA:521:G:H4'	12:CO:73:GLU:HG3	1.97	0.46
1:CA:540:G:H2'	1:CA:541:G:O4'	2.14	0.46
1:CA:819:A:C4'	1:CA:820:U:OP2	2.63	0.46
1:CA:1120:G:H2'	1:CA:1121:U:H6	1.80	0.46
1:CA:1188:A:H5"	14:CQ:58:LYS:NZ	2.29	0.46
1:CA:1197:G:O5'	1:CA:1198:G:OP2	2.33	0.46
1:CA:1464:G:O2'	1:CA:1465:C:H5'	2.15	0.46
2:CE:15:VAL:HG23	2:CE:209:ARG:HE	1.80	0.46
2:CE:96:ARG:HD2	2:CE:96:ARG:N	2.20	0.46
2:CE:168:THR:CB	2:CE:192:SER:HB2	2.41	0.46
7:CJ:92:SER:HB3	7:CJ:95:ARG:CB	2.45	0.46
8:CK:1:MET:HE2	8:CK:1:MET:N	2.30	0.46
8:CK:82:HIS:CD2	8:CK:83:ILE:N	2.82	0.46
15:CR:82:ILE:HD11	15:CR:88:ARG:HG2	1.95	0.46
18:CU:31:LEU:HD23	18:CU:31:LEU:N	2.29	0.46
18:CU:53:ARG:C	18:CU:55:ARG:H	2.22	0.46
22:CD:8:U:O4'	22:CD:48:C:O2'	2.33	0.46
24:DA:153:C:OP1	46:DZ:88:LYS:HE2	2.15	0.46
24:DA:241:A:O2'	53:D8:3:LYS:NZ	2.43	0.46
24:DA:338:G:N2	24:DA:339:U:H1'	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:528:A:C2	24:DA:2042:A:H2'	2.50	0.46
24:DA:626:U:O4	34:DO:107:LYS:HE2	2.15	0.46
24:DA:639:U:O2'	24:DA:640:C:H5'	2.15	0.46
24:DA:760:G:H2'	24:DA:761:A:O4'	2.15	0.46
24:DA:898:C:H2'	24:DA:899:A:C5'	2.45	0.46
24:DA:1064:C:C2	24:DA:1065:U:H1'	2.50	0.46
24:DA:1083:U:HO2'	24:DA:1085:A:H5'	1.80	0.46
24:DA:1509:C:H4'	24:DA:1509:C:OP1	2.15	0.46
24:DA:2057:A:O2'	24:DA:2058:A:H5'	2.16	0.46
24:DA:2184:G:H2'	24:DA:2185:C:H6	1.80	0.46
24:DA:2278:A:C2'	24:DA:2279:G:O5'	2.64	0.46
24:DA:2372:G:H4'	51:D6:46:HIS:CD2	2.50	0.46
24:DA:2507:C:C2'	24:DA:2508:G:O5'	2.64	0.46
24:DA:2578:G:OP2	24:DA:2578:G:H4'	2.15	0.46
24:DA:2674:G:H2'	24:DA:2675:A:H8	1.79	0.46
25:DB:12:C:C5'	25:DB:13:A:OP1	2.63	0.46
26:DD:183:ARG:CG	26:DD:183:ARG:NH1	2.69	0.46
27:DE:101:ARG:HD2	27:DE:171:GLU:HA	1.97	0.46
27:DE:103:ASP:OD2	27:DE:168:MET:HG2	2.15	0.46
28:DF:46:ARG:CG	28:DF:46:ARG:NH1	2.71	0.46
28:DF:184:TYR:CD2	28:DF:188:ARG:HD2	2.50	0.46
29:DG:52:ILE:HG22	29:DG:52:ILE:O	2.15	0.46
29:DG:116:ASP:O	29:DG:117:PHE:CB	2.50	0.46
30:DH:86:GLU:O	30:DH:132:ARG:HA	2.16	0.46
33:DN:104:ARG:HG2	33:DN:121:VAL:HG12	1.97	0.46
34:DO:144:GLU:OE1	34:DO:144:GLU:N	2.48	0.46
42:DT:31:HIS:CD2	42:DT:33:LYS:HB2	2.50	0.46
43:DU:81:LYS:HZ2	43:DU:98:VAL:CG1	2.28	0.46
44:DV:33:LEU:CD1	44:DV:34:ASN:H	2.28	0.46
44:DV:107:THR:HG21	44:DV:144:LEU:N	2.30	0.46
49:D4:15:ILE:HG22	49:D4:20:ASN:CA	2.45	0.46
51:D6:8:LYS:O	51:D6:27:LYS:HG2	2.15	0.46
1:AA:87:A:N3	1:AA:87:A:H2'	2.29	0.46
1:AA:481:G:H2'	1:AA:483:C:N4	2.30	0.46
1:AA:948:C:C6	13:AP:106:ASN:ND2	2.83	0.46
1:AA:992:U:O2'	1:AA:993:G:P	2.72	0.46
1:AA:1150:U:C4'	1:AA:1280:A:H2	2.27	0.46
1:AA:1158:C:O2	1:AA:1160:G:C8	2.67	0.46
1:AA:1186:G:N2	1:AA:1187:G:H1'	2.30	0.46
1:AA:1434:A:H2'	1:AA:1435:G:O4'	2.15	0.46
1:AA:1453:G:C2'	1:AA:1454:G:OP1	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1498:U:O2'	1:AA:1499:A:P	2.73	0.46
1:AA:1532:U:O4	23:A1:9:G:C8	2.68	0.46
3:AF:11:ARG:O	3:AF:12:LEU:O	2.34	0.46
3:AF:78:GLY:O	3:AF:79:ARG:C	2.59	0.46
3:AF:84:ILE:C	3:AF:88:ARG:HG2	2.39	0.46
4:AG:92:VAL:O	4:AG:96:LEU:HD23	2.15	0.46
7:AJ:114:ARG:H	7:AJ:114:ARG:HG2	1.55	0.46
8:AK:114:THR:C	8:AK:116:LYS:H	2.23	0.46
10:AM:4:ILE:HG12	10:AM:100:THR:HG21	1.96	0.46
12:AO:79:GLU:O	12:AO:81:SER:N	2.49	0.46
12:AO:117:ARG:HB3	12:AO:122:THR:HB	1.96	0.46
13:AP:74:VAL:O	13:AP:78:ILE:HG13	2.15	0.46
14:AQ:14:PRO:O	14:AQ:15:LYS:C	2.58	0.46
15:AR:16:ALA:HB1	15:AR:21:ASP:HB3	1.95	0.46
16:AS:21:VAL:O	16:AS:21:VAL:HG13	2.15	0.46
20:AW:53:LEU:HD22	20:AW:56:MET:HE2	1.97	0.46
24:BA:34:C:C2'	24:BA:35:G:OP2	2.64	0.46
24:BA:811:U:O2'	24:BA:1250:G:H2'	2.16	0.46
24:BA:996:A:O2'	39:B1:92:ARG:NH2	2.41	0.46
24:BA:1010:A:H5'	39:B1:62:ILE:HG21	1.97	0.46
24:BA:1517:G:H2'	24:BA:1518:C:H6	1.80	0.46
24:BA:1681:G:OP2	24:BA:1681:G:C8	2.64	0.46
24:BA:1906:G:C5	24:BA:1929:G:C2	3.02	0.46
24:BA:2109:U:O5'	24:BA:2109:U:H6	1.97	0.46
24:BA:2173:A:N3	24:BA:2173:A:H2'	2.29	0.46
24:BA:2344:U:H4'	24:BA:2345:G:OP1	2.13	0.46
24:BA:2455:G:H2'	24:BA:2456:C:C6	2.49	0.46
24:BA:2563:U:O2'	33:BN:28:SER:HB3	2.14	0.46
24:BA:2749:A:N7	24:BA:2750:A:N7	2.63	0.46
24:BA:2808:U:H5'	24:BA:2891:G:O6	2.15	0.46
26:BD:21:PHE:HB3	26:BD:24:ILE:CB	2.45	0.46
27:BE:38:THR:H	27:BE:42:ASP:HB2	1.78	0.46
27:BE:103:ASP:OD2	27:BE:168:MET:HE2	2.15	0.46
28:BF:102:PRO:HB2	28:BF:105:VAL:CG2	2.36	0.46
28:BF:152:GLU:HA	28:BF:190:GLU:OE1	2.15	0.46
28:BF:192:LEU:HD23	28:BF:192:LEU:C	2.41	0.46
29:BG:4:ASP:O	29:BG:8:LYS:HB3	2.14	0.46
30:BH:44:VAL:HG22	30:BH:51:ARG:CD	2.45	0.46
31:BK:97:ILE:HG23	31:BK:140:LEU:CD2	2.46	0.46
32:BM:21:LYS:HB3	32:BM:26:LEU:HD13	1.97	0.46
32:BM:60:ILE:CD1	32:BM:99:LEU:HD23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:28:ALA:HB3	35:BP:105:GLU:OE1	2.14	0.46
35:BP:75:THR:HG21	35:BP:85:LYS:HE3	1.97	0.46
40:B2:76:LYS:HB2	40:B2:79:VAL:HG23	1.97	0.46
41:BS:8:ARG:O	41:BS:9:TYR:HB2	2.14	0.46
42:BT:34:ALA:HA	42:BT:38:GLU:OE2	2.16	0.46
43:BU:87:LYS:O	43:BU:88:LYS:HD3	2.15	0.46
44:BV:38:TYR:O	44:BV:38:TYR:CD1	2.68	0.46
44:BV:59:LEU:CD1	44:BV:60:GLU:N	2.76	0.46
44:BV:110:GLY:HA2	44:BV:142:SER:O	2.15	0.46
44:BV:133:ILE:HD12	44:BV:133:ILE:N	2.30	0.46
44:BV:148:ASP:HB2	44:BV:172:ALA:HB3	1.96	0.46
45:B3:16:SER:O	45:B3:17:GLN:O	2.32	0.46
45:B3:72:ARG:CZ	45:B3:75:LEU:HD12	2.45	0.46
47:BW:70:GLN:HG2	47:BW:71:ASN:H	1.80	0.46
51:B6:12:GLU:HB2	51:B6:22:ALA:CB	2.37	0.46
53:B8:49:VAL:O	53:B8:50:LEU:CD2	2.64	0.46
1:CA:93:U:H2'	1:CA:95:G:C4'	2.44	0.46
1:CA:458:C:H2'	1:CA:464:G:C8	2.50	0.46
1:CA:497:U:O2	1:CA:547:A:N6	2.48	0.46
1:CA:566:G:H5"	1:CA:567:G:OP1	2.15	0.46
1:CA:604:G:O2'	1:CA:605:U:H5'	2.14	0.46
1:CA:975:A:N6	10:CM:60:ARG:NH1	2.63	0.46
1:CA:1000:A:C2'	1:CA:1001:G:H5'	2.46	0.46
1:CA:1181:G:C4	1:CA:1182:G:N2	2.83	0.46
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.51	0.46
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.50	0.46
1:CA:1459:C:O2'	1:CA:1460:A:H5'	2.15	0.46
3:CF:8:ILE:C	3:CF:10:PHE:N	2.69	0.46
3:CF:172:ARG:O	3:CF:173:VAL:CG2	2.63	0.46
6:CI:40:VAL:HG22	6:CI:41:GLU:H	1.80	0.46
6:CI:100:ASN:HD22	6:CI:100:ASN:HA	1.47	0.46
8:CK:80:ILE:HG23	8:CK:137:VAL:HG12	1.97	0.46
8:CK:122:ARG:O	8:CK:125:ARG:N	2.46	0.46
10:CM:80:LYS:HB2	10:CM:80:LYS:NZ	2.30	0.46
13:CP:36:LYS:C	13:CP:36:LYS:CD	2.86	0.46
15:CR:77:ARG:HA	15:CR:80:ALA:HB3	1.95	0.46
16:CS:60:LEU:CA	16:CS:64:ALA:HB3	2.43	0.46
17:CT:92:ARG:HG3	17:CT:92:ARG:NH1	2.30	0.46
21:CX:2:GLY:C	21:CX:4:GLY:H	2.23	0.46
22:CC:64:G:H2'	22:CC:65:C:C6	2.50	0.46
22:CD:20:U:H2'	22:CD:21:A:H5"	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:163:U:H5'	24:DA:163:U:H6	1.80	0.46
24:DA:185:U:H2'	24:DA:186:G:H8	1.79	0.46
24:DA:196:A:H5'	24:DA:197:A:OP2	2.15	0.46
24:DA:607:U:OP1	28:DF:102:PRO:HA	2.16	0.46
24:DA:648:G:H1'	24:DA:2351:G:OP1	2.15	0.46
24:DA:720:C:H2'	24:DA:721:C:H6	1.79	0.46
24:DA:1065:U:H5"	24:DA:1066:U:H5"	1.97	0.46
24:DA:1322:A:OP1	41:DS:11:ARG:HG3	2.15	0.46
24:DA:1359:A:C2	24:DA:1373:A:C4	3.04	0.46
24:DA:1383:C:H6	24:DA:1383:C:O5'	1.99	0.46
24:DA:1453:A:H62	24:DA:2703:C:H5	1.62	0.46
24:DA:1509:C:H2'	24:DA:1511:A:C8	2.51	0.46
24:DA:1786:A:N1	24:DA:2606:C:H1'	2.30	0.46
24:DA:2141:G:O2'	24:DA:2142:C:H5'	2.15	0.46
24:DA:2173:A:C2	24:DA:2174:C:H1'	2.51	0.46
25:DB:7:G:O5'	37:DQ:29:PHE:CE1	2.69	0.46
25:DB:65:C:C2'	25:DB:66:A:H5'	2.45	0.46
27:DE:3:GLY:HA3	27:DE:81:ILE:HG21	1.97	0.46
28:DF:183:VAL:O	28:DF:184:TYR:C	2.57	0.46
29:DG:135:LEU:HD11	29:DG:157:ILE:HD12	1.98	0.46
30:DH:9:ILE:O	30:DH:10:PRO:O	2.33	0.46
31:DK:37:VAL:HG11	31:DK:43:ASN:ND2	2.30	0.46
33:DN:50:GLY:O	33:DN:51:ALA:C	2.57	0.46
34:DO:37:GLY:O	34:DO:41:ARG:HD3	2.15	0.46
34:DO:144:GLU:HA	34:DO:145:PRO:HD3	1.76	0.46
36:D0:1:MET:O	36:D0:2:ARG:HB2	2.15	0.46
36:D0:28:LEU:HD13	36:D0:28:LEU:C	2.40	0.46
36:D0:75:LEU:HA	36:D0:78:LYS:HB3	1.97	0.46
39:D1:27:LEU:C	39:D1:29:SER:N	2.74	0.46
40:D2:5:VAL:HG13	40:D2:14:VAL:HG21	1.98	0.46
40:D2:61:VAL:HA	40:D2:94:LEU:HD23	1.97	0.46
43:DU:81:LYS:NZ	43:DU:98:VAL:HB	2.30	0.46
44:DV:45:ASP:OD1	44:DV:49:ARG:NE	2.41	0.46
44:DV:140:ASP:OD2	44:DV:156:LYS:CA	2.63	0.46
46:DZ:81:LYS:HE2	46:DZ:81:LYS:H	1.62	0.46
50:D5:39:MET:C	50:D5:40:LYS:HG3	2.39	0.46
53:D8:9:GLY:O	53:D8:13:ARG:HG2	2.16	0.46
1:AA:9:G:H2'	1:AA:10:A:C8	2.50	0.46
1:AA:48:C:H6	1:AA:365:U:O4	1.98	0.46
1:AA:529:G:H4'	1:AA:533:A:C2	2.51	0.46
1:AA:724:G:H2'	1:AA:725:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:974:A:C2'	1:AA:975:A:OP2	2.64	0.46
1:AA:975:A:H8	1:AA:1365:G:N2	2.12	0.46
1:AA:995:C:O2'	1:AA:996:A:H5'	2.15	0.46
1:AA:1114:C:H2'	1:AA:1115:C:C6	2.50	0.46
1:AA:1178:G:H5'	9:AL:93:ARG:NH2	2.25	0.46
1:AA:1181:G:O4'	1:AA:1181:G:OP2	2.33	0.46
1:AA:1320:C:H1'	19:AV:73:GLU:CG	2.46	0.46
1:AA:1325:C:OP1	21:AX:15:ARG:HD2	2.15	0.46
2:AE:17:PHE:HZ	2:AE:44:LEU:HB3	1.79	0.46
2:AE:35:GLU:HA	2:AE:41:ILE:HD13	1.96	0.46
2:AE:77:ALA:HB2	2:AE:211:ILE:HD13	1.96	0.46
2:AE:133:LYS:HB3	2:AE:137:ARG:NH1	2.30	0.46
2:AE:163:PHE:HE1	2:AE:215:LEU:HD13	1.81	0.46
2:AE:208:ILE:HA	2:AE:211:ILE:CD1	2.41	0.46
3:AF:173:VAL:O	3:AF:175:LEU:HG	2.15	0.46
5:AH:93:PRO:HG2	8:AK:105:ARG:CZ	2.44	0.46
6:AI:59:TYR:CD2	6:AI:61:LEU:HD11	2.50	0.46
7:AJ:102:ARG:HG2	7:AJ:106:GLN:OE1	2.15	0.46
8:AK:6:ILE:HG21	8:AK:85:ARG:HH12	1.79	0.46
10:AM:40:LEU:HB3	10:AM:69:ASN:HB3	1.97	0.46
10:AM:47:PHE:CB	14:AQ:34:TYR:HE2	2.29	0.46
10:AM:80:LYS:NZ	10:AM:80:LYS:HB2	2.31	0.46
11:AN:124:LYS:NZ	11:AN:125:PHE:HE1	2.13	0.46
13:AP:15:VAL:N	13:AP:45:VAL:HG23	2.31	0.46
14:AQ:34:TYR:N	14:AQ:34:TYR:HD1	2.14	0.46
16:AS:83:GLU:O	16:AS:84:ALA:C	2.59	0.46
17:AT:75:ARG:HD2	17:AT:75:ARG:O	2.15	0.46
19:AV:20:LEU:C	19:AV:22:LEU:H	2.22	0.46
22:AC:59:A:H2'	22:AC:60:U:H5'	1.96	0.46
24:BA:35:G:H1'	24:BA:454:A:C4	2.50	0.46
24:BA:43:G:H2'	24:BA:44:A:C8	2.50	0.46
24:BA:264:C:C2'	24:BA:265:A:O5'	2.64	0.46
24:BA:365:C:O2'	24:BA:366:C:H5'	2.16	0.46
24:BA:921:G:N2	45:B3:26:TYR:CD2	2.84	0.46
24:BA:1076:C:H2'	24:BA:1077:A:C8	2.50	0.46
24:BA:1187:G:O5'	24:BA:1187:G:C8	2.68	0.46
24:BA:1252:G:H1'	39:B1:33:ARG:HD3	1.97	0.46
24:BA:1359:A:H2	24:BA:1360:A:H1'	1.79	0.46
24:BA:1387:C:C2	24:BA:1388:G:C8	3.03	0.46
24:BA:1458:C:H5"	24:BA:1459:G:C5'	2.46	0.46
24:BA:1906:G:C8	24:BA:1929:G:N3	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2113:U:H5	24:BA:2114:A:HO2'	1.62	0.46
24:BA:2389:G:C5'	24:BA:2390:U:H5'	2.42	0.46
24:BA:2592:G:C6	24:BA:2593:U:C4	3.04	0.46
24:BA:2866:U:H1'	24:BA:2868:A:O4'	2.15	0.46
28:BF:200:GLU:O	28:BF:203:GLN:N	2.47	0.46
30:BH:34:GLU:O	30:BH:35:VAL:HG23	2.15	0.46
30:BH:86:GLU:O	30:BH:87:LEU:CB	2.64	0.46
30:BH:151:ILE:HG22	30:BH:151:ILE:O	2.13	0.46
32:BM:10:GLU:OE2	32:BM:11:PRO:HD2	2.15	0.46
32:BM:71:ILE:HD12	32:BM:71:ILE:N	2.29	0.46
35:BP:16:ARG:HH11	35:BP:16:ARG:CG	2.28	0.46
36:B0:18:LEU:CD1	36:B0:22:ARG:HE	2.28	0.46
37:BQ:3:ARG:NH1	45:B3:74:ARG:HH22	2.13	0.46
39:B1:58:ARG:O	39:B1:62:ILE:CD1	2.63	0.46
41:BS:84:ARG:HG3	41:BS:98:LYS:NZ	2.30	0.46
43:BU:97:ARG:HH21	43:BU:98:VAL:HB	1.80	0.46
44:BV:15:PRO:HG2	44:BV:16:SER:N	2.30	0.46
44:BV:105:VAL:HG12	44:BV:139:VAL:HB	1.97	0.46
45:B3:45:PHE:O	45:B3:59:LEU:HD11	2.16	0.46
49:B4:56:VAL:O	49:B4:60:GLN:HB2	2.15	0.46
1:CA:448:A:OP2	1:CA:485:G:N2	2.30	0.46
1:CA:719:C:C2	18:CU:50:ILE:HD13	2.51	0.46
1:CA:794:A:H4'	1:CA:1521:G:O2'	2.15	0.46
1:CA:920:U:H1'	1:CA:1080:A:N3	2.31	0.46
1:CA:1176:A:H2'	1:CA:1177:G:C5'	2.40	0.46
1:CA:1346:A:H1'	1:CA:1348:U:C2	2.50	0.46
1:CA:1534:A:N3	1:CA:1534:A:H2'	2.31	0.46
2:CE:174:VAL:O	2:CE:178:ARG:HB3	2.15	0.46
3:CF:52:LEU:H	3:CF:52:LEU:CD2	2.20	0.46
3:CF:73:PRO:O	3:CF:77:ILE:HG13	2.16	0.46
3:CF:113:ALA:C	3:CF:115:LEU:N	2.72	0.46
3:CF:113:ALA:O	3:CF:115:LEU:N	2.48	0.46
3:CF:134:ILE:HG23	3:CF:151:VAL:HB	1.98	0.46
4:CG:7:PRO:HB2	4:CG:10:ARG:HD2	1.96	0.46
4:CG:146:ILE:N	4:CG:146:ILE:CD1	2.73	0.46
6:CI:41:GLU:HG2	6:CI:43:LEU:CD1	2.44	0.46
7:CJ:95:ARG:O	7:CJ:96:GLN:C	2.58	0.46
8:CK:28:ALA:CB	8:CK:57:PRO:HB2	2.45	0.46
8:CK:68:ARG:HH11	8:CK:68:ARG:HG2	1.81	0.46
9:CL:17:VAL:HG11	9:CL:81:ILE:HA	1.96	0.46
11:CN:34:ASP:HB2	11:CN:35:PRO:CD	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CP:121:LYS:NZ	22:CB:41:C:O3'	2.47	0.46
18:CU:46:GLU:HG3	18:CU:47:THR:N	2.29	0.46
22:CD:70:G:O2'	22:CD:71:C:H5'	2.15	0.46
23:C1:12:A:H3'	23:C1:13:A:C5'	2.34	0.46
24:DA:846:C:O2'	24:DA:847:U:P	2.73	0.46
24:DA:1061:U:C3'	24:DA:1062:G:H5"	2.35	0.46
24:DA:1179:C:C3'	24:DA:1180:C:H5"	2.43	0.46
24:DA:1251:C:O2'	24:DA:1252:G:H3'	2.14	0.46
24:DA:1368:G:O2'	24:DA:1369:G:H5'	2.15	0.46
24:DA:1406:U:H2'	24:DA:1407:C:H6	1.77	0.46
24:DA:1550:C:H2'	24:DA:1551:C:H6	1.81	0.46
24:DA:1637:A:H2'	24:DA:1638:C:C6	2.50	0.46
24:DA:1833:U:C2	24:DA:1834:U:C6	3.03	0.46
24:DA:1833:U:N3	24:DA:1834:U:C5	2.83	0.46
24:DA:1854:A:H2'	24:DA:1855:G:O4'	2.15	0.46
24:DA:2277:G:H2'	24:DA:2278:A:C5'	2.44	0.46
24:DA:2318:G:C2'	24:DA:2319:G:OP1	2.64	0.46
24:DA:2481:G:O2'	24:DA:2482:G:P	2.73	0.46
24:DA:2588:G:O2'	24:DA:2589:A:H5'	2.15	0.46
24:DA:2760:C:C3'	24:DA:2761:G:H5"	2.46	0.46
24:DA:2791:C:C1'	24:DA:2792:G:N7	2.77	0.46
25:DB:75:G:H21	44:DV:85:HIS:CE1	2.34	0.46
25:DB:76:G:N2	25:DB:100:G:O6	2.46	0.46
26:DD:102:LYS:O	26:DD:103:ARG:HG3	2.15	0.46
27:DE:7:VAL:HG11	38:DR:1:MET:CE	2.45	0.46
27:DE:188:VAL:O	27:DE:188:VAL:HG13	2.15	0.46
29:DG:104:GLU:OE1	49:D4:23:GLU:HB3	2.15	0.46
30:DH:89:ILE:HD13	30:DH:89:ILE:H	1.80	0.46
30:DH:94:TYR:N	30:DH:94:TYR:CD1	2.82	0.46
31:DK:139:GLN:HE21	31:DK:139:GLN:HB2	1.51	0.46
33:DN:7:TYR:CD1	33:DN:20:MET:HB2	2.50	0.46
33:DN:61:VAL:O	33:DN:84:ALA:HB1	2.16	0.46
34:DO:46:LYS:O	34:DO:48:PRO:N	2.48	0.46
36:D0:10:LEU:C	36:D0:12:ARG:N	2.72	0.46
37:DQ:24:LEU:HB2	37:DQ:85:VAL:HG12	1.98	0.46
38:DR:96:ARG:CB	38:DR:96:ARG:HH11	2.29	0.46
38:DR:111:ARG:C	38:DR:113:LYS:N	2.64	0.46
38:DR:118:ARG:NH2	38:DR:121:ILE:HD12	2.31	0.46
39:D1:57:PHE:C	39:D1:59:ARG:N	2.74	0.46
41:DS:36:LEU:CD1	41:DS:47:VAL:HG12	2.44	0.46
42:DT:26:TYR:HB3	42:DT:92:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:128:VAL:HG22	44:DV:129:SER:H	1.80	0.46
45:D3:66:VAL:HG22	45:D3:82:ARG:HB3	1.96	0.46
53:D8:40:GLU:O	53:D8:41:ILE:C	2.56	0.46
1:AA:412:A:O2'	1:AA:413:G:OP2	2.32	0.46
1:AA:833:U:H2'	1:AA:834:C:H6	1.81	0.46
1:AA:865:A:H5'	1:AA:1078:U:O4	2.16	0.46
1:AA:935:A:H2'	1:AA:936:C:C6	2.49	0.46
1:AA:1129:C:N3	1:AA:1139:G:N2	2.63	0.46
1:AA:1137:C:O4'	1:AA:1138:G:C2	2.68	0.46
5:AH:20:GLN:C	5:AH:20:GLN:HE21	2.24	0.46
7:AJ:86:GLN:CD	22:AD:31:G:H21	2.24	0.46
8:AK:40:ALA:O	8:AK:43:GLY:N	2.36	0.46
9:AL:128:ARG:NH1	9:AL:128:ARG:HG2	2.31	0.46
10:AM:31:GLY:O	10:AM:81:THR:HG21	2.16	0.46
11:AN:27:ASN:CG	11:AN:28:THR:N	2.73	0.46
12:AO:100:ILE:HG22	12:AO:101:VAL:N	2.30	0.46
13:AP:32:GLU:O	13:AP:35:GLU:HG3	2.15	0.46
13:AP:54:VAL:HA	13:AP:57:ARG:NE	2.30	0.46
15:AR:63:ARG:CZ	15:AR:87:ILE:HD13	2.46	0.46
22:AC:1:C:H2'	22:AC:2:G:OP2	2.15	0.46
24:BA:80:G:O2'	24:BA:81:G:H5'	2.15	0.46
24:BA:270(A):A:C5'	46:BZ:97:LEU:HD22	2.41	0.46
24:BA:271(B):G:H4'	24:BA:271(C):U:OP1	2.14	0.46
24:BA:405:U:O2	24:BA:405:U:C2'	2.63	0.46
24:BA:627:A:OP2	24:BA:627:A:C8	2.68	0.46
24:BA:662:G:OP1	34:BO:15:ARG:NE	2.49	0.46
24:BA:735:A:C8	24:BA:736:C:C5	3.03	0.46
24:BA:800:A:C4'	24:BA:801:G:O5'	2.55	0.46
24:BA:981:A:C8	24:BA:982:C:C5	3.01	0.46
24:BA:1312:U:C3'	42:BT:63:LYS:HZ3	2.29	0.46
24:BA:1334:G:O2'	24:BA:1335:U:H5'	2.16	0.46
24:BA:1555:G:C2	24:BA:1556:C:C5	3.03	0.46
24:BA:1971:A:C4	26:BD:241:PRO:HD3	2.50	0.46
24:BA:2195:C:O2'	24:BA:2196:C:H5'	2.16	0.46
24:BA:2247:A:H2'	24:BA:2248:C:H6	1.80	0.46
24:BA:2391:G:O2'	24:BA:2392:A:P	2.73	0.46
24:BA:2584:U:C6	24:BA:2585:U:C4	3.04	0.46
24:BA:2748:A:N7	24:BA:2757:A:N1	2.64	0.46
24:BA:2886:G:H2'	24:BA:2887:U:H6	1.81	0.46
29:BG:118:ARG:HG2	29:BG:118:ARG:NH1	2.28	0.46
29:BG:181:ARG:O	29:BG:182:LYS:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:26:VAL:H	30:BH:32:GLU:H	1.62	0.46
30:BH:118:PRO:HG2	30:BH:121:ILE:HG13	1.97	0.46
34:BO:13:ASN:C	34:BO:15:ARG:H	2.23	0.46
34:BO:32:THR:O	34:BO:32:THR:HG23	2.16	0.46
34:BO:106:LEU:HD21	34:BO:112:LEU:HB2	1.96	0.46
37:BQ:108:GLY:C	37:BQ:110:LEU:N	2.72	0.46
38:BR:125:ARG:O	38:BR:129:ARG:NH1	2.49	0.46
41:BS:26:GLY:O	41:BS:27:LYS:C	2.58	0.46
43:BU:76:CYS:O	43:BU:77:PRO:C	2.58	0.46
44:BV:5:LEU:HB3	44:BV:59:LEU:HA	1.97	0.46
44:BV:12:GLY:O	44:BV:13:GLU:O	2.34	0.46
46:BZ:4:VAL:HG11	46:BZ:11:ARG:HH12	1.77	0.46
53:B8:56:GLU:OE1	53:B8:56:GLU:N	2.43	0.46
1:CA:60:A:H1'	1:CA:61:G:O4'	2.16	0.46
1:CA:271:C:H2'	1:CA:272:C:C6	2.50	0.46
1:CA:663:A:H2'	1:CA:664:G:O4'	2.16	0.46
1:CA:708:C:O2'	1:CA:709:G:H5'	2.16	0.46
1:CA:767:A:H2'	1:CA:768:A:O4'	2.15	0.46
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.50	0.46
1:CA:1400:C:H5"	1:CA:1401:G:OP2	2.15	0.46
1:CA:1413:A:H2'	1:CA:1414:U:H6	1.80	0.46
1:CA:1446:A:C5	38:DR:118:ARG:NH1	2.83	0.46
2:CE:17:PHE:CD2	2:CE:44:LEU:HD21	2.47	0.46
3:CF:23:TYR:CG	3:CF:24:ALA:N	2.83	0.46
8:CK:49:GLU:HG3	8:CK:49:GLU:O	2.15	0.46
9:CL:118:LYS:HB2	9:CL:118:LYS:HZ2	1.80	0.46
11:CN:80:VAL:O	11:CN:106:LYS:HD3	2.16	0.46
15:CR:83:GLU:C	15:CR:85:LEU:N	2.70	0.46
22:CC:65:C:H2'	22:CC:66:C:H6	1.81	0.46
24:DA:140:A:H8	24:DA:1408:C:O2'	1.99	0.46
24:DA:270(B):A:C8	24:DA:270(C):C:C5	3.03	0.46
24:DA:271(C):U:O2'	24:DA:271:G:P	2.73	0.46
24:DA:345:A:O2'	24:DA:346:A:N7	2.49	0.46
24:DA:456:C:C4	42:DT:69:TYR:CE1	3.04	0.46
24:DA:751:A:H5'	41:DS:90:ARG:HA	1.98	0.46
24:DA:803:U:C2'	24:DA:804:A:H5'	2.45	0.46
24:DA:897:C:H4'	22:CB:56:U:H4'	1.97	0.46
24:DA:1086:A:N3	24:DA:1086:A:H3'	2.30	0.46
24:DA:1543:A:O2'	24:DA:1544:C:P	2.73	0.46
24:DA:2023:G:H5'	24:DA:2617:C:H4'	1.98	0.46
24:DA:2348:U:C4	24:DA:2382:G:N2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2406:U:O4'	34:DO:75:ILE:HG22	2.16	0.46
24:DA:2408:U:H2'	24:DA:2409:G:H8	1.81	0.46
24:DA:2447:G:H3'	24:DA:2500:U:OP2	2.15	0.46
24:DA:2620:C:OP1	27:DE:152:LYS:O	2.33	0.46
24:DA:2736:G:O2'	24:DA:2737:G:H5'	2.14	0.46
24:DA:2852:G:H2'	24:DA:2853:C:O4'	2.16	0.46
25:DB:81:G:N2	25:DB:82:G:N7	2.62	0.46
26:DD:35:LYS:HE3	26:DD:65:ILE:N	2.31	0.46
26:DD:110:GLY:O	26:DD:111:LEU:C	2.59	0.46
26:DD:206:LEU:HA	26:DD:206:LEU:HD23	1.49	0.46
29:DG:20:ILE:HD13	29:DG:25:TYR:HB2	1.98	0.46
30:DH:4:ILE:HG13	30:DH:6:ARG:HD3	1.97	0.46
30:DH:86:GLU:O	30:DH:87:LEU:CB	2.64	0.46
31:DK:92:VAL:HG13	31:DK:92:VAL:O	2.16	0.46
31:DK:99:GLU:CG	31:DK:103:ARG:NH2	2.75	0.46
32:DM:30:ILE:O	32:DM:34:LEU:CD2	2.63	0.46
32:DM:97:ARG:HA	32:DM:100:GLU:HB3	1.97	0.46
33:DN:101:PRO:HA	33:DN:120:GLU:O	2.16	0.46
35:DP:109:VAL:HG13	35:DP:113:GLN:OE1	2.16	0.46
36:D0:79:LEU:HD23	36:D0:79:LEU:O	2.16	0.46
37:DQ:95:HIS:O	37:DQ:96:GLY:C	2.57	0.46
37:DQ:99:LYS:C	37:DQ:101:LEU:N	2.72	0.46
38:DR:54:ARG:HG2	38:DR:54:ARG:NH1	2.23	0.46
39:D1:27:LEU:O	39:D1:30:LYS:N	2.41	0.46
39:D1:73:GLY:O	39:D1:74:LEU:CB	2.63	0.46
44:DV:27:VAL:CG2	44:DV:28:MET:N	2.77	0.46
44:DV:30:ASN:CB	44:DV:89:PHE:HE2	2.27	0.46
44:DV:102:LEU:CD1	44:DV:171:ILE:HD11	2.46	0.46
45:D3:55:ARG:CZ	45:D3:55:ARG:HB2	2.45	0.46
1:AA:45:U:H2'	1:AA:46:G:C8	2.51	0.46
1:AA:373:A:C4	1:AA:482:A:N7	2.83	0.46
1:AA:619:U:H3	4:AG:135:LEU:CD1	2.28	0.46
1:AA:738:C:H5"	6:AI:69:GLU:HB2	1.97	0.46
1:AA:1004:A:C4	1:AA:1025:U:O4	2.69	0.46
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.30	0.46
3:AF:11:ARG:HE	3:AF:180:ALA:HB3	1.81	0.46
3:AF:22:TRP:HB3	3:AF:59:ARG:HB2	1.98	0.46
3:AF:59:ARG:CZ	3:AF:97:LYS:NZ	2.74	0.46
4:AG:36:ARG:CD	4:AG:38:TYR:CE2	2.99	0.46
4:AG:148:VAL:HG12	4:AG:148:VAL:O	2.16	0.46
5:AH:19:MET:HE1	5:AH:24:ARG:NH2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AH:57:LYS:C	5:AH:59:GLY:N	2.73	0.46
10:AM:33:GLN:N	10:AM:75:ILE:HG12	2.28	0.46
12:AO:82:VAL:C	12:AO:83:VAL:HG12	2.40	0.46
24:BA:88:G:H5'	24:BA:90:U:H5	1.80	0.46
24:BA:363(B):G:H2'	24:BA:363(C):G:C8	2.50	0.46
24:BA:380:U:H5'	46:BZ:18:ILE:HD12	1.98	0.46
24:BA:466:A:OP1	52:B7:34:ARG:NH1	2.49	0.46
24:BA:558:G:H5"	32:BM:112:LEU:HD22	1.98	0.46
24:BA:675:A:H4'	28:BF:63:LYS:NZ	2.30	0.46
24:BA:1203:G:N3	24:BA:1242:A:N6	2.62	0.46
24:BA:1212:G:C2'	24:BA:1213:A:OP2	2.63	0.46
24:BA:1394:U:H6	24:BA:1394:U:H3'	1.81	0.46
24:BA:1454:U:O2'	24:BA:1455:G:H8	1.93	0.46
24:BA:1483:G:C6	24:BA:1507:A:C2	3.03	0.46
24:BA:1530:G:H2'	24:BA:1531:C:C6	2.49	0.46
24:BA:1817:G:H5"	26:BD:88:ARG:NH2	2.31	0.46
24:BA:2556:C:H2'	24:BA:2557:G:C5'	2.46	0.46
24:BA:2674:G:H2'	24:BA:2675:A:O4'	2.15	0.46
24:BA:2712:U:O2	24:BA:2712:U:O4'	2.32	0.46
29:BG:69:ALA:O	29:BG:90:LEU:HA	2.15	0.46
29:BG:130:ASN:OD1	29:BG:160:VAL:HA	2.15	0.46
29:BG:160:VAL:CG1	29:BG:161:THR:H	2.28	0.46
31:BK:82:ARG:NH1	31:BK:82:ARG:CG	2.73	0.46
32:BM:18:ALA:O	32:BM:21:LYS:HG2	2.15	0.46
34:BO:97:PRO:C	34:BO:99:LEU:N	2.73	0.46
35:BP:26:TYR:HE1	35:BP:140:ALA:HA	1.81	0.46
35:BP:122:GLY:HA2	35:BP:129:THR:HG21	1.98	0.46
44:BV:122:ARG:HH11	44:BV:122:ARG:HG2	1.80	0.46
52:B7:1:MET:O	52:B7:2:LYS:C	2.58	0.46
53:B8:25:MET:HA	53:B8:25:MET:CE	2.44	0.46
53:B8:32:LEU:CD2	53:B8:33:ASN:H	2.28	0.46
1:CA:333:G:H2'	1:CA:334:C:H6	1.81	0.46
1:CA:686:U:C2'	1:CA:687:A:O5'	2.64	0.46
1:CA:703:G:O2'	1:CA:704:A:H8	1.98	0.46
1:CA:1301:U:H2'	1:CA:1302:U:O5'	2.16	0.46
4:CG:135:LEU:O	4:CG:137:SER:N	2.48	0.46
8:CK:86:ILE:CG1	8:CK:133:LEU:HD22	2.46	0.46
10:CM:38:ILE:CD1	10:CM:71:LEU:HB3	2.46	0.46
17:CT:100:LYS:O	17:CT:101:ARG:HB2	2.15	0.46
18:CU:64:ARG:O	18:CU:65:ILE:C	2.58	0.46
20:CW:99:LEU:O	20:CW:100:ILE:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:71:A:C2	42:DT:31:HIS:CE1	3.01	0.46
24:DA:270(M):U:OP1	24:DA:270(M):U:H4'	2.15	0.46
24:DA:447:A:N1	24:DA:454:A:H2'	2.30	0.46
24:DA:773:U:H5'	26:DD:47:GLY:HA2	1.97	0.46
24:DA:864:G:H21	24:DA:866:A:H61	1.62	0.46
24:DA:1311:G:O2'	24:DA:1312:U:OP2	2.31	0.46
24:DA:1509:C:N4	24:DA:1511:A:N6	2.63	0.46
24:DA:1543:A:C2	24:DA:1545:A:C4	3.03	0.46
24:DA:1578:U:O2	24:DA:1578:U:H2'	2.15	0.46
24:DA:1929:G:C5'	24:DA:1930:G:OP1	2.61	0.46
24:DA:1980:G:O2'	24:DA:1981:A:OP1	2.27	0.46
24:DA:2224:G:OP1	26:DD:268:ARG:HD3	2.15	0.46
24:DA:2439:A:H4'	24:DA:2440:C:O5'	2.15	0.46
24:DA:2655:G:N2	24:DA:2665:A:OP2	2.49	0.46
24:DA:2895:U:H2'	24:DA:2896:C:C6	2.51	0.46
25:DB:15:A:C5'	25:DB:16:G:C8	2.96	0.46
25:DB:56:G:H4'	25:DB:57:A:C8	2.50	0.46
26:DD:48:ARG:HG3	26:DD:48:ARG:NH1	2.31	0.46
26:DD:79:VAL:HG21	26:DD:111:LEU:HD21	1.98	0.46
26:DD:148:GLU:HB2	26:DD:151:LYS:HD2	1.98	0.46
27:DE:18:ASP:O	27:DE:19:ARG:C	2.56	0.46
29:DG:36:LYS:O	29:DG:37:VAL:HG23	2.15	0.46
29:DG:83:ARG:HG3	29:DG:86:MET:CE	2.46	0.46
30:DH:106:THR:HG22	30:DH:112:PRO:HB3	1.97	0.46
31:DK:9:LEU:HD21	31:DK:12:LEU:O	2.15	0.46
32:DM:46:VAL:HG13	32:DM:47:ALA:N	2.31	0.46
32:DM:128:HIS:HB2	32:DM:129:PRO:CD	2.46	0.46
33:DN:92:GLU:O	33:DN:93:PRO:C	2.58	0.46
35:DP:63:LYS:HE2	35:DP:65:PHE:CZ	2.51	0.46
35:DP:66:ILE:H	35:DP:104:PHE:HA	1.80	0.46
37:DQ:61:ASN:O	37:DQ:65:VAL:HG23	2.15	0.46
38:DR:6:LEU:O	38:DR:10:VAL:HG23	2.16	0.46
39:D1:69:CYS:O	39:D1:74:LEU:HD12	2.16	0.46
41:DS:17:VAL:O	41:DS:18:ARG:C	2.57	0.46
42:DT:65:ARG:N	42:DT:65:ARG:CD	2.79	0.46
53:D8:29:LYS:HE3	53:D8:41:ILE:O	2.15	0.46
22:CB:23:G:C2'	22:CB:24:C:C5'	2.93	0.46
1:AA:555:C:H2'	1:AA:556:C:H6	1.81	0.46
1:AA:651:C:H2'	1:AA:652:U:O4'	2.16	0.46
1:AA:956:U:O2'	1:AA:957:U:H5'	2.16	0.46
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1200:C:H1'	1:AA:1204:A:H62	1.76	0.46
1:AA:1305:G:C2	1:AA:1331:G:N3	2.83	0.46
2:AE:119:GLU:C	2:AE:121:LEU:H	2.21	0.46
2:AE:236:TYR:C	2:AE:238:LEU:N	2.73	0.46
3:AF:149:ALA:O	3:AF:169:ALA:HB1	2.15	0.46
4:AG:18:LYS:HG2	4:AG:21:LEU:HD21	1.98	0.46
4:AG:127:THR:HA	4:AG:132:ARG:HA	1.96	0.46
8:AK:6:ILE:HB	8:AK:85:ARG:HH12	1.79	0.46
8:AK:6:ILE:CB	8:AK:85:ARG:HH12	2.29	0.46
9:AL:27:THR:O	9:AL:28:VAL:CB	2.64	0.46
9:AL:40:LEU:CD2	9:AL:42:ARG:HG2	2.46	0.46
10:AM:19:SER:C	10:AM:21:GLN:H	2.24	0.46
12:AO:27:LEU:CD1	12:AO:33:ARG:HB2	2.46	0.46
16:AS:42:ARG:O	16:AS:43:LYS:C	2.58	0.46
19:AV:10:PHE:CD1	19:AV:11:VAL:N	2.83	0.46
19:AV:42:PRO:HD2	49:B4:63:TYR:OH	2.16	0.46
19:AV:65:ASN:ND2	49:B4:55:ARG:NH1	2.63	0.46
24:BA:84:A:H3'	43:BU:8:LYS:NZ	2.31	0.46
24:BA:210:C:H4'	24:BA:1367:A:H1'	1.98	0.46
24:BA:241:A:H5'	24:BA:243:U:O4'	2.16	0.46
24:BA:403:U:C2'	24:BA:404:C:OP2	2.64	0.46
24:BA:428:A:N6	24:BA:429:A:N1	2.63	0.46
24:BA:484:C:H2'	24:BA:485:C:H6	1.80	0.46
24:BA:617:G:H5'	28:BF:40:GLN:HE21	1.80	0.46
24:BA:920:G:O2'	24:BA:921:G:H5'	2.16	0.46
24:BA:1205:U:C4'	24:BA:1206:G:OP2	2.63	0.46
24:BA:1530:G:H2'	24:BA:1531:C:H6	1.80	0.46
24:BA:1557:C:H5"	24:BA:1558:A:OP2	2.16	0.46
24:BA:1632:A:C5	24:BA:1633:G:C6	3.02	0.46
24:BA:2273:A:O2'	24:BA:2274:A:H5'	2.15	0.46
24:BA:2291:U:H5"	24:BA:2380:C:O2	2.16	0.46
24:BA:2307:G:O6	29:BG:42:GLY:O	2.32	0.46
24:BA:2332:U:H5'	45:B3:43:THR:HG21	1.97	0.46
24:BA:2681:C:O2'	24:BA:2682:U:P	2.74	0.46
24:BA:2763:G:H5'	24:BA:2764:A:P	2.55	0.46
25:BB:12:C:H5"	25:BB:13:A:OP1	2.16	0.46
27:BE:51:PHE:O	27:BE:74:PRO:CB	2.63	0.46
28:BF:101:LEU:CD1	28:BF:102:PRO:HD2	2.45	0.46
28:BF:121:GLY:O	28:BF:122:LYS:HD3	2.16	0.46
29:BG:48:GLU:HA	29:BG:48:GLU:OE2	2.16	0.46
30:BH:137:ASP:HB2	30:BH:140:LYS:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:100:ALA:O	31:BK:101:LEU:C	2.58	0.46
34:BO:47:ASP:CB	34:BO:48:PRO:CA	2.85	0.46
36:B0:23:ASN:N	36:B0:23:ASN:ND2	2.63	0.46
38:BR:35:LYS:N	38:BR:35:LYS:CD	2.78	0.46
44:BV:3:TYR:C	44:BV:58:VAL:HG23	2.40	0.46
44:BV:72:ARG:O	44:BV:73:GLN:CB	2.63	0.46
44:BV:151:HIS:O	44:BV:152:ALA:O	2.33	0.46
44:BV:171:ILE:O	44:BV:171:ILE:CG2	2.63	0.46
44:BV:173:ALA:HB1	44:BV:175:VAL:HG13	1.97	0.46
46:BZ:11:ARG:HB2	46:BZ:12:PRO:CD	2.46	0.46
46:BZ:87:PRO:C	46:BZ:90:ILE:HG22	2.40	0.46
47:BW:5:GLU:CD	47:BW:5:GLU:H	2.24	0.46
47:BW:53:LEU:CD2	47:BW:57:ILE:HD11	2.46	0.46
49:B4:2:LYS:HG2	49:B4:5:ILE:HG21	1.97	0.46
1:CA:198:G:H2'	1:CA:199:G:H8	1.80	0.46
1:CA:346:G:C5'	38:DR:41:ARG:HH11	2.29	0.46
1:CA:376:G:O3'	16:CS:5:ARG:HD2	2.16	0.46
1:CA:475:G:O2'	1:CA:476:G:H5'	2.15	0.46
1:CA:555:C:OP1	12:CO:20:LYS:NZ	2.49	0.46
1:CA:586:C:H1'	1:CA:878:G:O2'	2.16	0.46
1:CA:1002:G:N3	1:CA:1003:G:N7	2.63	0.46
1:CA:1296:C:H3'	1:CA:1297:C:H6	1.81	0.46
1:CA:1327:C:OP1	21:CX:21:TYR:CD1	2.66	0.46
1:CA:1336:C:OP1	1:CA:1336:C:H4'	2.16	0.46
1:CA:1346:A:H5'	9:CL:120:ARG:NH1	2.30	0.46
2:CE:77:ALA:HB1	2:CE:211:ILE:HG21	1.97	0.46
2:CE:155:LEU:C	2:CE:157:ARG:H	2.23	0.46
3:CF:46:GLU:C	3:CF:48:TYR:H	2.23	0.46
4:CG:110:PHE:H	4:CG:110:PHE:HD1	1.63	0.46
4:CG:157:LEU:CD1	4:CG:161:ASN:HD21	2.27	0.46
9:CL:9:ARG:HA	9:CL:76:ALA:HB1	1.97	0.46
9:CL:42:ARG:O	9:CL:45:ALA:HB3	2.16	0.46
12:CO:126:LYS:HB2	12:CO:126:LYS:HZ3	1.80	0.46
13:CP:65:LYS:HZ1	49:D4:52:THR:HG21	1.80	0.46
16:CS:75:ARG:C	16:CS:77:ALA:N	2.72	0.46
20:CW:96:GLY:O	20:CW:99:LEU:HD13	2.16	0.46
21:CX:14:TRP:CE3	21:CX:15:ARG:NH1	2.83	0.46
24:DA:545:G:H2'	24:DA:546:C:O5'	2.15	0.46
24:DA:551:G:H5'	24:DA:1220:A:H1'	1.97	0.46
24:DA:917:A:H2'	24:DA:918:A:C5'	2.45	0.46
24:DA:1871:A:H2'	24:DA:1872:A:H8	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1963:U:O2	24:DA:1963:U:C2'	2.63	0.46
24:DA:2321:G:H2'	24:DA:2321:G:N3	2.31	0.46
24:DA:2572:A:C8	27:DE:144:ARG:CB	2.98	0.46
24:DA:2623:G:OP1	24:DA:2826:A:H1'	2.15	0.46
24:DA:2665:A:H2'	24:DA:2666:C:O5'	2.15	0.46
26:DD:14:ARG:HG3	26:DD:15:PHE:N	2.31	0.46
27:DE:63:LEU:O	27:DE:64:LYS:CB	2.62	0.46
29:DG:60:LEU:C	29:DG:60:LEU:HD23	2.41	0.46
29:DG:102:PHE:HA	29:DG:105:LYS:HE3	1.98	0.46
32:DM:36:GLY:O	32:DM:42:TRP:HE3	1.98	0.46
34:DO:1:MET:O	34:DO:2:LYS:HG3	2.16	0.46
34:DO:23:PRO:HG2	34:DO:23:PRO:O	2.15	0.46
35:DP:87:LYS:O	35:DP:87:LYS:HG2	2.15	0.46
36:D0:85:PRO:C	36:D0:87:TYR:N	2.73	0.46
37:DQ:28:VAL:HG11	37:DQ:98:VAL:HG12	1.97	0.46
37:DQ:108:GLY:O	37:DQ:110:LEU:N	2.48	0.46
40:D2:16:PRO:HA	40:D2:96:ILE:O	2.14	0.46
40:D2:81:TYR:C	40:D2:82:ARG:CG	2.89	0.46
42:DT:12:VAL:O	42:DT:12:VAL:HG13	2.15	0.46
48:DX:39:ASP:O	48:DX:40:THR:C	2.59	0.46
48:DX:43:ILE:O	48:DX:47:VAL:HG23	2.16	0.46
48:DX:59:VAL:CG1	48:DX:60:GLU:H	2.28	0.46
53:D8:44:LYS:HD2	53:D8:44:LYS:N	2.30	0.46
53:D8:48:PHE:N	53:D8:48:PHE:HD1	2.14	0.46
1:AA:9:G:C6	1:AA:26:A:N6	2.84	0.46
1:AA:105:G:C6	1:AA:106:C:C4	3.03	0.46
1:AA:210:U:OP2	1:AA:210:U:O4'	2.33	0.46
1:AA:458:C:H2'	1:AA:464:G:C8	2.47	0.46
1:AA:501:C:P	12:AO:124:LYS:NZ	2.89	0.46
1:AA:865:A:C2	1:AA:918:A:H4'	2.51	0.46
1:AA:889:A:HO2'	1:AA:890:G:P	2.38	0.46
1:AA:1030:C:C6	1:AA:1030:C:OP1	2.69	0.46
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.63	0.46
1:AA:1094:G:C2'	1:AA:1095:U:OP2	2.63	0.46
1:AA:1118:C:OP1	9:AL:104:ARG:NH1	2.48	0.46
1:AA:1129:C:C2	1:AA:1132:C:N4	2.83	0.46
1:AA:1176:A:H2'	1:AA:1177:G:C5'	2.43	0.46
2:AE:24:TRP:CH2	2:AE:26:PRO:HA	2.49	0.46
4:AG:209:ARG:HH11	4:AG:209:ARG:HG3	1.80	0.46
7:AJ:3:ARG:O	7:AJ:3:ARG:CG	2.63	0.46
7:AJ:21:VAL:O	7:AJ:21:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:36:LEU:HB3	8:AK:48:TYR:CE2	2.50	0.46
8:AK:40:ALA:C	8:AK:42:GLU:N	2.72	0.46
10:AM:50:ILE:HG12	14:AQ:41:ARG:HD3	1.98	0.46
15:AR:64:ARG:CG	15:AR:64:ARG:NH1	2.76	0.46
18:AU:30:ASP:C	18:AU:32:ARG:H	2.24	0.46
18:AU:74:ARG:HB3	18:AU:81:PHE:CE1	2.51	0.46
19:AV:20:LEU:HA	19:AV:44:MET:CE	2.42	0.46
19:AV:41:VAL:O	19:AV:41:VAL:CG2	2.56	0.46
19:AV:83:HIS:O	19:AV:85:LYS:HG2	2.15	0.46
24:BA:139:G:HO2'	24:BA:140:A:H2	1.61	0.46
24:BA:278:A:HO2'	24:BA:279:C:P	2.39	0.46
24:BA:301:G:O2'	24:BA:302:C:O4'	2.33	0.46
24:BA:386:G:C2'	24:BA:387:U:OP1	2.63	0.46
24:BA:680:G:H2'	24:BA:681:G:H8	1.79	0.46
24:BA:1049:C:N3	24:BA:1113:U:H4'	2.31	0.46
24:BA:1359:A:HO2'	24:BA:1360:A:P	2.39	0.46
24:BA:1658:C:OP1	27:BE:135:HIS:NE2	2.48	0.46
24:BA:1964:G:O2'	24:BA:1967:C:OP1	2.30	0.46
24:BA:2785:C:H4'	27:BE:35:GLN:OE1	2.15	0.46
28:BF:32:LEU:C	28:BF:32:LEU:HD23	2.40	0.46
29:BG:77:ILE:HD12	29:BG:77:ILE:N	2.30	0.46
30:BH:86:GLU:HB2	30:BH:87:LEU:H	1.57	0.46
30:BH:135:GLY:C	30:BH:136:ILE:HD12	2.40	0.46
31:BK:70:GLU:HA	31:BK:70:GLU:OE1	2.14	0.46
32:BM:74:ARG:HG3	32:BM:74:ARG:HH11	1.81	0.46
34:BO:59:LEU:CD1	34:BO:60:MET:H	2.29	0.46
34:BO:112:LEU:O	34:BO:128:HIS:HB2	2.14	0.46
35:BP:103:MET:C	35:BP:104:PHE:HD1	2.23	0.46
35:BP:141:GLN:CG	44:BV:75:ASN:ND2	2.72	0.46
36:B0:33:ARG:HG2	36:B0:115:GLU:CG	2.42	0.46
36:B0:98:LEU:O	36:B0:113:LEU:N	2.49	0.46
37:BQ:34:HIS:HB3	37:BQ:35:ILE:H	1.48	0.46
37:BQ:34:HIS:HE2	37:BQ:54:LEU:HD23	1.80	0.46
37:BQ:62:LYS:HD3	37:BQ:97:ARG:NH1	2.30	0.46
38:BR:119:LYS:C	38:BR:121:ILE:N	2.74	0.46
40:B2:46:VAL:O	40:B2:46:VAL:CG2	2.64	0.46
41:BS:88:ARG:CB	41:BS:92:ARG:HB3	2.46	0.46
44:BV:27:VAL:HG22	44:BV:28:MET:N	2.30	0.46
44:BV:59:LEU:O	44:BV:60:GLU:CG	2.64	0.46
44:BV:105:VAL:HG12	44:BV:139:VAL:CB	2.46	0.46
44:BV:110:GLY:O	44:BV:111:VAL:HB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B8:49:VAL:CG1	53:B8:50:LEU:H	2.22	0.46
1:CA:35:G:C6	1:CA:36:C:N4	2.84	0.46
1:CA:89:U:O2'	1:CA:90:C:P	2.74	0.46
1:CA:397:A:N7	1:CA:548:G:C8	2.84	0.46
1:CA:457:C:N4	1:CA:458:C:H41	2.14	0.46
1:CA:975:A:H62	10:CM:60:ARG:NH1	2.13	0.46
1:CA:1160:G:N1	1:CA:1177:G:N2	2.64	0.46
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.51	0.46
1:CA:1379:G:H2'	1:CA:1380:U:C6	2.51	0.46
2:CE:122:PHE:HD1	2:CE:139:LYS:NZ	2.09	0.46
9:CL:11:LYS:O	9:CL:12:GLU:HB2	2.16	0.46
10:CM:39:PRO:CB	10:CM:70:ARG:HH12	2.27	0.46
13:CP:23:TYR:HB3	13:CP:67:GLU:HA	1.98	0.46
18:CU:20:ALA:C	18:CU:21:LYS:HG3	2.41	0.46
19:CV:24:ALA:O	19:CV:25:LYS:CB	2.63	0.46
20:CW:9:ASN:C	20:CW:9:ASN:ND2	2.74	0.46
20:CW:101:GLY:C	20:CW:103:GLY:N	2.73	0.46
24:DA:489:G:N7	41:DS:49:LYS:NZ	2.64	0.46
24:DA:590:A:H2'	24:DA:591:C:C6	2.50	0.46
24:DA:905:U:H3'	24:DA:906:G:H5"	1.96	0.46
24:DA:988:A:H8	24:DA:988:A:O5'	1.99	0.46
24:DA:1505:C:H2'	24:DA:1505:C:O2	2.16	0.46
24:DA:1927:A:C6	24:DA:1928:A:C6	3.04	0.46
24:DA:1944:U:H5"	24:DA:1945:G:OP2	2.15	0.46
24:DA:2024:G:H2'	24:DA:2025:C:H6	1.81	0.46
24:DA:2592:G:C5	24:DA:2593:U:C5	3.04	0.46
24:DA:2752:C:H5'	24:DA:2753:A:OP2	2.16	0.46
25:DB:37:C:C2'	25:DB:38:C:H5'	2.46	0.46
26:DD:61:LEU:HB3	26:DD:63:ARG:NH1	2.31	0.46
29:DG:76:SER:CB	29:DG:83:ARG:HA	2.46	0.46
32:DM:28:THR:O	32:DM:29:LYS:C	2.59	0.46
32:DM:114:ARG:C	32:DM:116:LEU:N	2.74	0.46
34:DO:85:LEU:HD23	34:DO:88:LEU:HD22	1.97	0.46
36:D0:78:LYS:HG2	36:D0:78:LYS:O	2.15	0.46
41:DS:29:LEU:HD23	41:DS:29:LEU:C	2.41	0.46
44:DV:137:ILE:HG22	44:DV:158:PRO:HG2	1.98	0.46
46:DZ:80:LEU:CB	46:DZ:81:LYS:HE2	2.44	0.46
49:D4:4:GLY:O	49:D4:5:ILE:C	2.59	0.46
1:AA:251:G:C6	1:AA:266:G:C6	3.03	0.46
1:AA:353:A:H2'	1:AA:354:G:OP2	2.16	0.46
1:AA:500:G:N2	1:AA:546:G:H1'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:575:G:H4'	1:AA:576:G:O5'	2.16	0.46
1:AA:757:U:H2'	1:AA:758:G:O4'	2.16	0.46
1:AA:762:C:H2'	1:AA:763:G:C8	2.48	0.46
1:AA:764:C:H5"	15:AR:50:HIS:CE1	2.51	0.46
1:AA:961:U:OP2	1:AA:1223:C:C4'	2.64	0.46
1:AA:1066:C:H5'	1:AA:1067:A:OP2	2.15	0.46
1:AA:1104:G:H4'	2:AE:111:ARG:NH2	2.31	0.46
1:AA:1239:A:H4'	1:AA:1240:U:O5'	2.16	0.46
1:AA:1287:A:N6	1:AA:1288:A:N6	2.63	0.46
1:AA:1306:A:H2'	1:AA:1307:U:C6	2.51	0.46
2:AE:24:TRP:CD1	2:AE:24:TRP:N	2.79	0.46
2:AE:33:TYR:C	2:AE:33:TYR:CD1	2.94	0.46
2:AE:59:GLU:O	2:AE:63:MET:HG2	2.15	0.46
2:AE:178:ARG:HE	8:AK:71:GLY:H	1.64	0.46
4:AG:12:CYS:CA	4:AG:21:LEU:CD2	2.84	0.46
6:AI:45:LEU:HD11	6:AI:57:GLN:CD	2.41	0.46
6:AI:91:VAL:HG12	6:AI:92:LYS:O	2.16	0.46
6:AI:98:LEU:HD12	6:AI:101:ALA:CB	2.42	0.46
13:AP:49:THR:O	13:AP:49:THR:HG23	2.16	0.46
13:AP:86:CYS:SG	13:AP:88:ARG:N	2.88	0.46
13:AP:118:ALA:CB	22:AC:28:C:O2'	2.63	0.46
15:AR:29:VAL:HG13	15:AR:63:ARG:HG3	1.98	0.46
15:AR:39:LEU:CD1	15:AR:56:LEU:HB2	2.46	0.46
16:AS:5:ARG:HH21	16:AS:24:ALA:HA	1.79	0.46
22:AC:2:G:H5'	22:AC:2:G:C8	2.50	0.46
22:AC:59:A:H2'	22:AC:60:U:C5'	2.45	0.46
24:BA:30:G:C6	24:BA:31:C:C4	3.04	0.46
24:BA:481:G:H4'	24:BA:481:G:OP1	2.15	0.46
24:BA:588:U:O5'	24:BA:588:U:H6	1.99	0.46
24:BA:687:C:O2	24:BA:687:C:C2'	2.64	0.46
24:BA:986:C:H2'	24:BA:987:G:H5'	1.98	0.46
24:BA:1011:G:OP1	39:B1:75:ASN:HB3	2.16	0.46
24:BA:1179:C:H3'	24:BA:1180:C:C5'	2.46	0.46
24:BA:1359:A:N6	24:BA:1373:A:N9	2.61	0.46
24:BA:1838:C:H2'	24:BA:1898:U:O4	2.16	0.46
25:BB:56:G:H5'	29:BG:27:ASN:HD21	1.80	0.46
25:BB:81:G:N2	25:BB:82:G:C6	2.84	0.46
26:BD:11:PRO:C	26:BD:13:ARG:H	2.23	0.46
28:BF:22:ALA:O	28:BF:24:LEU:N	2.38	0.46
29:BG:52:ILE:HG22	29:BG:52:ILE:O	2.15	0.46
29:BG:129:GLY:O	29:BG:161:THR:CB	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:81:VAL:HG12	31:BK:82:ARG:N	2.30	0.46
31:BK:93:THR:O	31:BK:97:ILE:HD13	2.16	0.46
33:BN:87:ILE:HD13	33:BN:87:ILE:N	2.30	0.46
36:B0:37:THR:O	36:B0:38:VAL:C	2.59	0.46
36:B0:77:ARG:O	36:B0:78:LYS:C	2.57	0.46
39:B1:110:VAL:O	39:B1:113:ALA:HB3	2.15	0.46
40:B2:62:LEU:HG	40:B2:63:GLY:H	1.81	0.46
44:BV:157:LEU:HB2	44:BV:161:VAL:HG11	1.97	0.46
45:B3:18:ALA:O	45:B3:19:LYS:CG	2.59	0.46
46:BZ:53:VAL:CB	46:BZ:58:ILE:HD12	2.44	0.46
46:BZ:97:LEU:HB3	46:BZ:98:LEU:HD13	1.97	0.46
47:BW:10:LEU:HG	47:BW:14:ARG:NH2	2.31	0.46
49:B4:14:ILE:HG23	49:B4:21:VAL:HG23	1.96	0.46
53:B8:32:LEU:HD23	53:B8:33:ASN:N	2.30	0.46
1:CA:119:A:C8	1:CA:240:C:N4	2.84	0.46
1:CA:266:G:H5"	1:CA:268:C:H41	1.80	0.46
1:CA:432:A:C8	1:CA:433:C:C5	3.03	0.46
1:CA:794:A:H2'	1:CA:795:C:H6	1.81	0.46
1:CA:795:C:O2'	1:CA:1506:U:C1'	2.63	0.46
2:CE:24:TRP:CZ2	2:CE:26:PRO:HB3	2.51	0.46
3:CF:11:ARG:HG2	3:CF:11:ARG:HH11	1.80	0.46
3:CF:58:GLU:O	3:CF:59:ARG:HG3	2.15	0.46
3:CF:108:ASN:CG	3:CF:111:LEU:HG	2.41	0.46
4:CG:25:ARG:C	4:CG:27:TYR:H	2.24	0.46
4:CG:192:GLU:H	4:CG:192:GLU:HG3	1.57	0.46
10:CM:32:ALA:HB3	10:CM:76:ASN:CB	2.34	0.46
17:CT:76:LEU:HD11	17:CT:79:SER:H	1.80	0.46
20:CW:48:LYS:O	20:CW:49:ALA:C	2.59	0.46
22:CC:68:C:H2'	22:CC:69:C:C6	2.51	0.46
22:CD:36:U:O4	22:CD:37:A:N6	2.49	0.46
24:DA:34:C:C6	24:DA:454:A:O2'	2.69	0.46
24:DA:862:G:H5'	25:DB:79:C:H4'	1.98	0.46
24:DA:1297:C:OP1	24:DA:2710:C:H4'	2.16	0.46
24:DA:1310:G:OP2	52:D7:9:ARG:NH1	2.49	0.46
24:DA:1342:A:O2'	24:DA:1344:G:P	2.74	0.46
24:DA:1729:A:C2'	24:DA:1730:U:H5"	2.40	0.46
24:DA:2012:G:H4'	41:DS:96:ILE:HD11	1.97	0.46
24:DA:2111:C:H41	24:DA:2147:G:N2	2.12	0.46
24:DA:2371:G:O2'	51:D6:45:LYS:HB3	2.15	0.46
24:DA:2428:G:H5"	24:DA:2429:G:OP1	2.16	0.46
24:DA:2749:A:H4'	30:DH:62:LYS:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:211:ARG:HH11	26:DD:211:ARG:HG2	1.80	0.46
27:DE:87:GLU:O	27:DE:89:ASP:N	2.48	0.46
29:DG:14:GLU:O	29:DG:17:PRO:HD2	2.16	0.46
30:DH:151:ILE:O	30:DH:152:ARG:O	2.34	0.46
33:DN:86:ILE:H	33:DN:86:ILE:CD1	2.28	0.46
35:DP:11:LYS:HE2	35:DP:87:LYS:HA	1.98	0.46
40:D2:22:VAL:HG12	40:D2:23:GLU:H	1.76	0.46
41:DS:14:PRO:C	41:DS:18:ARG:HD2	2.41	0.46
43:DU:15:VAL:O	43:DU:21:LYS:HA	2.16	0.46
44:DV:58:VAL:O	44:DV:59:LEU:HB2	2.16	0.46
44:DV:79:ARG:C	44:DV:81:ARG:H	2.24	0.46
46:DZ:79:GLY:N	46:DZ:80:LEU:HD23	2.30	0.46
48:DX:28:LEU:HA	48:DX:33:GLN:OE1	2.16	0.46
1:AA:279:A:O2'	1:AA:280:C:P	2.74	0.46
1:AA:408:A:O2'	1:AA:409:G:H5'	2.16	0.46
1:AA:423:G:N2	1:AA:424:G:C4	2.84	0.46
1:AA:645:C:H2'	1:AA:646:U:O4'	2.15	0.46
1:AA:872:A:C4'	1:AA:873:A:OP1	2.53	0.46
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.51	0.46
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.46
2:AE:21:ARG:O	2:AE:22:LYS:C	2.59	0.46
2:AE:158:LEU:HD12	2:AE:158:LEU:N	2.31	0.46
3:AF:77:ILE:O	3:AF:78:GLY:O	2.34	0.46
3:AF:164:ARG:O	3:AF:165:THR:HB	2.16	0.46
3:AF:186:PHE:HD1	3:AF:198:VAL:O	1.99	0.46
4:AG:58:LEU:C	4:AG:58:LEU:CD2	2.89	0.46
6:AI:98:LEU:CA	18:AU:30:ASP:HA	2.42	0.46
8:AK:29:SER:OG	8:AK:32:LYS:HG3	2.15	0.46
9:AL:16:ARG:HH21	9:AL:66:ARG:HH22	1.64	0.46
9:AL:112:LYS:CD	9:AL:112:LYS:C	2.88	0.46
21:AX:6:ARG:HG2	21:AX:15:ARG:NH2	2.31	0.46
24:BA:233:A:H8	24:BA:233:A:O5'	1.99	0.46
24:BA:308:G:N2	24:BA:329:G:O2'	2.49	0.46
24:BA:391:G:C4	24:BA:392:C:C5	3.04	0.46
24:BA:440:G:H2'	24:BA:441:U:C6	2.51	0.46
24:BA:644:A:O2'	24:BA:645:C:H5"	2.16	0.46
24:BA:867:C:O2'	24:BA:868:U:H5'	2.16	0.46
24:BA:1098:A:C3'	24:BA:1099:G:C5'	2.94	0.46
24:BA:1373:A:C2	24:BA:1374:G:H1'	2.51	0.46
24:BA:1453:A:O2'	36:B0:73:VAL:HG11	2.16	0.46
24:BA:1731:G:N3	24:BA:1731:G:C3'	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2346:A:H1'	24:BA:2383:G:N7	2.31	0.46
24:BA:2483:C:C5'	24:BA:2484:G:OP2	2.64	0.46
24:BA:2483:C:H5'	24:BA:2484:G:OP2	2.16	0.46
24:BA:2777:G:H4'	24:BA:2778:A:H5"	1.98	0.46
26:BD:270:ILE:C	26:BD:271:ILE:HG13	2.41	0.46
27:BE:14:ILE:HB	38:BR:14:TYR:CE2	2.51	0.46
27:BE:107:THR:O	27:BE:190:GLY:CA	2.64	0.46
27:BE:117:MET:O	27:BE:117:MET:HG2	2.15	0.46
30:BH:44:VAL:HG23	30:BH:45:VAL:N	2.30	0.46
32:BM:12:ARG:NH1	32:BM:38:HIS:NE2	2.64	0.46
32:BM:63:THR:HB	32:BM:64:GLY:H	1.51	0.46
33:BN:91:LEU:N	33:BN:91:LEU:CD2	2.79	0.46
34:BO:101:VAL:O	34:BO:103:ALA:N	2.43	0.46
34:BO:114:ILE:HG21	34:BO:130:PHE:CE1	2.50	0.46
37:BQ:102:ALA:HB1	37:BQ:112:PHE:HD2	1.81	0.46
40:B2:38:LEU:HD21	40:B2:57:VAL:CG2	2.46	0.46
43:BU:55:TYR:CD2	43:BU:55:TYR:N	2.84	0.46
44:BV:111:VAL:C	44:BV:113:ALA:H	2.14	0.46
45:B3:82:ARG:O	45:B3:83:PRO:O	2.34	0.46
1:CA:355:C:O4'	1:CA:388:G:O2'	2.34	0.46
1:CA:451:A:N6	1:CA:481:G:O4'	2.48	0.46
1:CA:581:G:N2	1:CA:582:U:C5	2.84	0.46
1:CA:605:U:H2'	1:CA:606:G:H8	1.80	0.46
1:CA:632:A:H8	1:CA:633:G:C8	2.34	0.46
1:CA:871:U:O2'	1:CA:872:A:OP1	2.31	0.46
1:CA:1178:G:C8	1:CA:1180:A:OP2	2.69	0.46
1:CA:1312:G:H5"	49:D4:67:TYR:OH	2.16	0.46
1:CA:1349:A:P	9:CL:118:LYS:NZ	2.89	0.46
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.81	0.46
2:CE:95:GLN:O	2:CE:96:ARG:C	2.59	0.46
2:CE:109:SER:C	2:CE:111:ARG:N	2.73	0.46
4:CG:30:LYS:O	4:CG:32:ALA:N	2.49	0.46
4:CG:92:VAL:O	4:CG:96:LEU:CD2	2.64	0.46
5:CH:42:GLY:CA	5:CH:136:MET:HE1	2.46	0.46
6:CI:44:GLY:HA2	6:CI:59:TYR:CE2	2.51	0.46
6:CI:62:TRP:C	6:CI:63:TYR:CD2	2.92	0.46
9:CL:105:ASP:C	9:CL:107:ARG:N	2.74	0.46
10:CM:21:GLN:HG2	10:CM:21:GLN:O	2.16	0.46
10:CM:44:VAL:HG12	10:CM:45:ARG:N	2.30	0.46
16:CS:19:ILE:HB	16:CS:37:GLY:O	2.16	0.46
16:CS:71:ARG:HB2	16:CS:71:ARG:HH11	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CW:22:ARG:O	20:CW:26:ASN:ND2	2.49	0.46
24:DA:84:A:H61	24:DA:102:G:H1'	1.78	0.46
24:DA:996:A:H4'	39:D1:92:ARG:HE	1.80	0.46
24:DA:1192:G:C2'	24:DA:1193:G:H5'	2.45	0.46
24:DA:1204:A:O2'	24:DA:1205:U:O5'	2.33	0.46
24:DA:1454:U:OP1	36:D0:77:ARG:NH1	2.48	0.46
24:DA:1454:U:H5'	36:D0:63:ARG:HE	1.80	0.46
24:DA:1694:C:O2	24:DA:1694:C:H2'	2.15	0.46
24:DA:1707:G:H2'	24:DA:1708:C:O4'	2.16	0.46
24:DA:1798:U:H5'	26:DD:259:THR:HG22	1.98	0.46
24:DA:2163:C:C4	24:DA:2164:C:N4	2.84	0.46
24:DA:2599:G:OP2	26:DD:236:GLY:HA3	2.15	0.46
24:DA:2785:C:H2'	24:DA:2786:U:O4'	2.15	0.46
25:DB:28:C:H2'	25:DB:29:A:O4'	2.16	0.46
25:DB:95:U:O5'	25:DB:95:U:H6	1.99	0.46
27:DE:1:MET:HA	27:DE:200:GLU:OE2	2.16	0.46
29:DG:6:ALA:HB3	29:DG:104:GLU:OE2	2.16	0.46
29:DG:44:GLY:C	29:DG:46:ALA:N	2.73	0.46
30:DH:88:LEU:HD22	30:DH:163:TYR:O	2.16	0.46
31:DK:32:PRO:C	31:DK:34:GLY:H	2.24	0.46
31:DK:72:LEU:C	31:DK:74:ASN:H	2.24	0.46
32:DM:10:GLU:HA	32:DM:11:PRO:HD3	1.73	0.46
32:DM:27:ALA:O	32:DM:28:THR:C	2.57	0.46
33:DN:8:LEU:N	33:DN:8:LEU:CD2	2.76	0.46
41:DS:14:PRO:C	41:DS:16:LYS:N	2.73	0.46
43:DU:11:ASP:HB2	43:DU:27:VAL:CG1	2.46	0.46
44:DV:151:HIS:O	44:DV:153:SER:O	2.33	0.46
1:AA:244:U:C6	1:AA:894:G:N2	2.84	0.46
1:AA:411:A:C2	1:AA:413:G:O2'	2.69	0.46
1:AA:625:G:C4	1:AA:626:U:C5	3.04	0.46
1:AA:768:A:H4'	1:AA:1523:G:N2	2.31	0.46
1:AA:993:G:O6	1:AA:1045:C:N3	2.49	0.46
3:AF:50:ALA:O	3:AF:70:VAL:HG13	2.16	0.46
3:AF:83:ARG:O	3:AF:84:ILE:HG12	2.16	0.46
4:AG:90:GLY:HA2	4:AG:204:ILE:HD11	1.98	0.46
5:AH:5:ASP:O	5:AH:5:ASP:CG	2.57	0.46
5:AH:63:ARG:C	5:AH:65:ASN:H	2.24	0.46
9:AL:78:LYS:HB2	9:AL:78:LYS:HZ2	1.79	0.46
10:AM:64:GLU:OE2	10:AM:66:ARG:NE	2.49	0.46
11:AN:30:VAL:HG21	11:AN:65:ALA:HA	1.98	0.46
12:AO:53:ARG:CG	12:AO:53:ARG:HH11	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:66:LEU:C	13:AP:70:LEU:HD12	2.41	0.46
13:AP:86:CYS:SG	13:AP:88:ARG:HB3	2.56	0.46
16:AS:58:TYR:O	16:AS:60:LEU:N	2.49	0.46
18:AU:29:PHE:CD2	18:AU:29:PHE:N	2.84	0.46
24:BA:84:A:H61	24:BA:102:G:C2'	2.29	0.46
24:BA:196:A:N6	24:BA:831:G:H21	2.14	0.46
24:BA:234:C:H2'	24:BA:235:U:H6	1.80	0.46
24:BA:464:U:H2'	24:BA:465:G:O4'	2.15	0.46
24:BA:903:C:H2'	24:BA:904:C:H6	1.81	0.46
24:BA:1140:C:O4'	24:BA:1143:A:N7	2.49	0.46
24:BA:1819:A:H5"	26:BD:161:THR:CG2	2.45	0.46
24:BA:2830:G:N3	24:BA:2883:A:H2	2.14	0.46
25:BB:55:U:O2'	29:BG:29:TRP:CD1	2.68	0.46
26:BD:92:ILE:HD12	26:BD:104:TYR:CD2	2.45	0.46
27:BE:144:ARG:HB3	27:BE:145:LYS:H	1.49	0.46
29:BG:39:ILE:HG23	29:BG:155:MET:SD	2.56	0.46
30:BH:105:LEU:CD1	30:BH:113:VAL:HB	2.45	0.46
30:BH:125:VAL:HG13	30:BH:126:PRO:HB3	1.97	0.46
31:BK:117:GLU:HB2	31:BK:118:LYS:H	1.50	0.46
35:BP:101:ARG:HG3	35:BP:102:VAL:N	2.31	0.46
39:B1:65:ILE:O	39:B1:66:ASN:C	2.59	0.46
44:BV:153:SER:C	44:BV:155:LEU:N	2.72	0.46
52:B7:24:THR:HG23	52:B7:27:GLY:H	1.80	0.46
52:B7:47:ARG:HH11	52:B7:47:ARG:CA	2.29	0.46
53:B8:61:LEU:HD12	53:B8:62:LEU:N	2.31	0.46
1:CA:428:G:O2'	1:CA:429:U:P	2.74	0.46
1:CA:558:G:C4	1:CA:559:A:C2	3.04	0.46
1:CA:644:G:C5	1:CA:645:C:C6	3.04	0.46
1:CA:664:G:H22	1:CA:741:G:H1	1.64	0.46
1:CA:789:U:C2	1:CA:791:G:OP2	2.69	0.46
1:CA:1126:U:H1'	1:CA:1280:A:H62	1.81	0.46
1:CA:1199:U:H5'	10:CM:54:PHE:CE2	2.51	0.46
1:CA:1316:G:H22	1:CA:1318:A:H3'	1.77	0.46
1:CA:1535:C:C2'	1:CA:1536:C:H5	2.28	0.46
2:CE:162:ILE:CD1	2:CE:184:VAL:HG13	2.44	0.46
3:CF:15:THR:HG22	3:CF:15:THR:O	2.15	0.46
3:CF:53:ALA:O	3:CF:54:ARG:HB2	2.16	0.46
5:CH:153:LYS:HD3	5:CH:153:LYS:C	2.41	0.46
6:CI:98:LEU:HD12	6:CI:98:LEU:C	2.41	0.46
7:CJ:57:GLU:O	7:CJ:59:LEU:N	2.49	0.46
9:CL:20:ARG:O	9:CL:21:PRO:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CM:4:ILE:O	10:CM:74:ILE:HD13	2.16	0.46
11:CN:104:GLN:O	11:CN:106:LYS:HG3	2.15	0.46
12:CO:27:LEU:HD13	12:CO:28:LYS:N	2.30	0.46
12:CO:120:TYR:O	12:CO:121:GLY:C	2.57	0.46
13:CP:10:PRO:HG3	13:CP:18:ALA:O	2.16	0.46
13:CP:80:ARG:O	13:CP:82:MET:O	2.34	0.46
19:CV:15:LEU:N	19:CV:15:LEU:CD2	2.79	0.46
20:CW:26:ASN:ND2	20:CW:26:ASN:N	2.62	0.46
22:CD:7:G:C5'	22:CD:8:U:OP2	2.64	0.46
22:CD:22:G:O2'	22:CD:23:C:H5'	2.16	0.46
24:DA:127:A:H5"	24:DA:128:C:C6	2.51	0.46
24:DA:266:G:H2'	24:DA:267:C:O5'	2.16	0.46
24:DA:298:G:OP2	43:DU:85:VAL:HG22	2.15	0.46
24:DA:548:A:H2'	24:DA:549:G:H5'	1.98	0.46
24:DA:802:A:C2'	24:DA:803:U:H5"	2.46	0.46
24:DA:1655:A:H4'	27:DE:115:GLY:N	2.31	0.46
24:DA:1834:U:O4'	24:DA:1969:A:C2	2.69	0.46
24:DA:2021:C:C5'	24:DA:2022:U:OP2	2.59	0.46
24:DA:2052:G:C8	27:DE:141:ILE:HD11	2.51	0.46
24:DA:2469:A:H3'	24:DA:2470:G:O4'	2.16	0.46
24:DA:2654:A:N1	24:DA:2665:A:H5'	2.31	0.46
25:DB:83:G:O2'	25:DB:84:C:H5'	2.16	0.46
26:DD:2:ALA:HB1	26:DD:20:ASP:CB	2.46	0.46
26:DD:36:PRO:HB3	26:DD:62:TYR:O	2.16	0.46
26:DD:105:ILE:HG23	26:DD:106:ILE:O	2.15	0.46
26:DD:118:VAL:O	26:DD:129:ASN:HA	2.16	0.46
27:DE:36:ARG:O	27:DE:37:ARG:C	2.59	0.46
27:DE:54:GLN:CA	27:DE:54:GLN:HE21	2.27	0.46
31:DK:74:ASN:CG	31:DK:75:LEU:N	2.68	0.46
32:DM:36:GLY:O	32:DM:42:TRP:CE3	2.69	0.46
32:DM:96:GLU:O	32:DM:99:LEU:N	2.34	0.46
37:DQ:102:ALA:C	37:DQ:104:GLY:N	2.73	0.46
42:DT:35:THR:O	42:DT:35:THR:HG23	2.16	0.46
42:DT:54:VAL:C	42:DT:55:ASN:HD22	2.23	0.46
43:DU:49:VAL:O	43:DU:50:ARG:C	2.59	0.46
44:DV:5:LEU:O	44:DV:5:LEU:HD13	2.16	0.46
44:DV:108:PRO:HG2	44:DV:111:VAL:CA	2.47	0.46
46:DZ:8:SER:HB3	46:DZ:66:HIS:CD2	2.50	0.46
50:D5:16:ARG:O	50:D5:20:ARG:HG3	2.16	0.46
50:D5:42:PRO:CB	50:D5:43:HIS:HD2	2.29	0.46
1:AA:24:U:O2'	1:AA:25:C:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:322:C:O2'	20:AW:23:ARG:HB2	2.15	0.45
1:AA:1036:G:H3'	1:AA:1037:C:H6	1.77	0.45
1:AA:1175:G:C2	1:AA:1176:A:C6	3.04	0.45
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.69	0.45
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.16	0.45
2:AE:77:ALA:O	2:AE:81:VAL:HG23	2.16	0.45
3:AF:85:ARG:C	3:AF:85:ARG:HE	2.24	0.45
4:AG:70:ILE:HD12	4:AG:100:ARG:CZ	2.46	0.45
5:AH:114:GLY:O	5:AH:115:VAL:C	2.58	0.45
6:AI:33:TYR:CZ	6:AI:78:GLU:HG3	2.51	0.45
9:AL:121:ARG:HD3	9:AL:121:ARG:C	2.41	0.45
24:BA:307:G:N2	24:BA:309:G:H3'	2.30	0.45
24:BA:608:A:N9	24:BA:621:A:N6	2.63	0.45
24:BA:864:G:H2'	24:BA:865:C:C6	2.50	0.45
24:BA:1329:U:H5"	24:BA:1330:C:H5	1.81	0.45
24:BA:1341:U:O2	42:BT:80:ILE:CD1	2.63	0.45
24:BA:1416:G:O2'	24:BA:1417:C:H6	1.99	0.45
24:BA:1690:A:H3'	24:BA:1691:C:H6	1.81	0.45
24:BA:2148:G:O2'	24:BA:2149:G:H5'	2.16	0.45
24:BA:2175:C:O2'	24:BA:2176:A:H5'	2.16	0.45
24:BA:2412:A:H2'	24:BA:2413:G:H5'	1.98	0.45
24:BA:2521:C:H2'	24:BA:2522:U:C6	2.50	0.45
24:BA:2657:A:H1'	24:BA:2665:A:N6	2.30	0.45
24:BA:2876:G:O2'	38:BR:3:ARG:NH1	2.46	0.45
26:BD:125:ILE:HD12	26:BD:137:PRO:HD3	1.98	0.45
27:BE:60:ASN:CA	27:BE:62:PRO:HD2	2.44	0.45
27:BE:170:LEU:N	27:BE:170:LEU:CD1	2.79	0.45
29:BG:121:ASN:HB2	29:BG:181:ARG:HH12	1.80	0.45
30:BH:54:ARG:HD2	30:BH:65:HIS:CE1	2.52	0.45
30:BH:151:ILE:O	30:BH:152:ARG:HG2	2.16	0.45
32:BM:14:VAL:HG12	32:BM:15:LEU:N	2.31	0.45
39:B1:50:ARG:NH2	39:B1:50:ARG:HB2	2.30	0.45
44:BV:66:SER:O	44:BV:67:LEU:C	2.58	0.45
45:B3:26:TYR:CD1	45:B3:26:TYR:N	2.84	0.45
47:BW:25:VAL:HG12	47:BW:60:LEU:HD23	1.97	0.45
47:BW:36:ARG:O	47:BW:37:PHE:C	2.59	0.45
49:B4:37:SER:OG	49:B4:38:LYS:N	2.48	0.45
51:B6:23:THR:CG2	51:B6:24:GLU:H	2.28	0.45
1:CA:33:A:H2'	1:CA:34:C:C6	2.50	0.45
1:CA:346:G:H5"	38:DR:41:ARG:HH11	1.80	0.45
1:CA:366:C:H4'	1:CA:367:U:OP1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:378:G:H2'	1:CA:379:C:C6	2.51	0.45
1:CA:406:G:O2'	1:CA:407:G:H5'	2.16	0.45
1:CA:477:G:H2'	1:CA:478:A:C8	2.52	0.45
1:CA:561:U:C2'	1:CA:562:C:OP2	2.64	0.45
1:CA:889:A:HO2'	1:CA:890:G:P	2.39	0.45
1:CA:1081:G:H2'	1:CA:1082:G:H8	1.81	0.45
1:CA:1381:U:H5	1:CA:1382:C:C4	2.34	0.45
2:CE:75:LYS:C	2:CE:77:ALA:H	2.25	0.45
2:CE:163:PHE:CE1	2:CE:215:LEU:HD22	2.50	0.45
3:CF:78:GLY:HA3	3:CF:83:ARG:HB3	1.98	0.45
4:CG:100:ARG:NH2	4:CG:137:SER:HA	2.32	0.45
4:CG:173:TRP:NE1	4:CG:174:LEU:HG	2.32	0.45
4:CG:199:ASN:O	4:CG:201:GLN:N	2.49	0.45
5:CH:12:LEU:HB3	5:CH:31:LEU:HB2	1.97	0.45
5:CH:132:ALA:O	5:CH:133:TYR:C	2.59	0.45
6:CI:32:ASN:ND2	6:CI:32:ASN:H	2.12	0.45
7:CJ:95:ARG:NE	7:CJ:99:LEU:HD11	2.30	0.45
13:CP:3:ARG:O	13:CP:4:ILE:HD13	2.16	0.45
16:CS:40:ASP:O	16:CS:42:ARG:N	2.50	0.45
17:CT:3:LYS:HD3	17:CT:61:GLU:O	2.16	0.45
17:CT:41:LYS:HZ1	17:CT:92:ARG:HH22	1.64	0.45
19:CV:5:LEU:HD21	49:D4:66:SER:HB2	1.97	0.45
22:CD:13:C:H2'	22:CD:14:A:OP1	2.16	0.45
24:DA:222:A:O2'	24:DA:223:A:OP1	2.34	0.45
24:DA:275:G:N2	24:DA:276:A:N6	2.61	0.45
24:DA:422:A:C6	24:DA:423:A:C6	3.04	0.45
24:DA:1141:U:H6	32:DM:63:THR:HG1	1.61	0.45
24:DA:1142(A):A:O2'	24:DA:1143:A:P	2.74	0.45
24:DA:1498:C:O4'	24:DA:1577:C:C4'	2.64	0.45
24:DA:1591:G:H2'	24:DA:1592:C:C6	2.51	0.45
24:DA:2406:U:C4	34:DO:72:PRO:HB2	2.51	0.45
24:DA:2665:A:H3'	24:DA:2665:A:N3	2.31	0.45
24:DA:2888:C:H2'	24:DA:2889:C:H6	1.81	0.45
25:DB:82:G:N1	25:DB:95:U:O2	2.49	0.45
27:DE:1:MET:HE2	27:DE:1:MET:N	2.31	0.45
27:DE:137:HIS:CB	27:DE:138:PRO:HD2	2.42	0.45
29:DG:78:SER:O	29:DG:79:ASN:C	2.59	0.45
29:DG:129:GLY:O	29:DG:130:ASN:OD1	2.34	0.45
30:DH:51:ARG:HG3	30:DH:51:ARG:NH1	2.30	0.45
30:DH:109:PHE:CE1	30:DH:152:ARG:NH1	2.84	0.45
34:DO:98:GLU:HG2	34:DO:99:LEU:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DP:27:VAL:HG22	35:DP:105:GLU:CD	2.41	0.45
35:DP:85:LYS:HD3	35:DP:86:GLY:H	1.80	0.45
37:DQ:109:GLY:O	37:DQ:110:LEU:HB2	2.16	0.45
40:D2:4:ILE:HG22	40:D2:39:LEU:HD23	1.98	0.45
41:DS:34:ASN:ND2	50:D5:39:MET:HB2	2.32	0.45
44:DV:11:GLU:HG3	44:DV:12:GLY:N	2.31	0.45
46:DZ:76:ARG:HD2	46:DZ:76:ARG:N	2.29	0.45
47:DW:18:PRO:C	47:DW:20:GLU:N	2.73	0.45
48:DX:7:LYS:HE2	48:DX:32:GLN:HA	1.98	0.45
48:DX:18:ASP:O	48:DX:21:ALA:N	2.49	0.45
51:D6:11:LEU:HD11	51:D6:51:GLU:HG3	1.98	0.45
1:AA:405:U:H3'	1:AA:406:G:H5'	1.98	0.45
1:AA:791:G:N2	1:AA:1497:G:O3'	2.50	0.45
1:AA:794:A:H4'	1:AA:1521:G:O2'	2.15	0.45
1:AA:1024:G:C5'	1:AA:1025:U:OP1	2.64	0.45
1:AA:1129:C:H5'	1:AA:1130:A:C5'	2.47	0.45
1:AA:1175:G:N1	1:AA:1176:A:N6	2.65	0.45
1:AA:1286:A:C8	1:AA:1287:A:H4'	2.51	0.45
1:AA:1349:A:O2'	1:AA:1350:A:H5'	2.16	0.45
1:AA:1443:G:H3'	1:AA:1446:A:C5'	2.38	0.45
2:AE:60:ASP:O	2:AE:60:ASP:OD2	2.34	0.45
2:AE:114:ARG:NH1	2:AE:118:LEU:HD21	2.30	0.45
3:AF:195:VAL:CG1	3:AF:196:LEU:N	2.79	0.45
4:AG:11:LEU:O	4:AG:12:CYS:C	2.58	0.45
4:AG:144:ASP:O	4:AG:184:LYS:HA	2.17	0.45
4:AG:157:LEU:O	4:AG:161:ASN:HB2	2.16	0.45
6:AI:61:LEU:HB3	6:AI:63:TYR:HE2	1.81	0.45
8:AK:37:ARG:CG	8:AK:38:ILE:HG13	2.45	0.45
8:AK:86:ILE:HG12	8:AK:135:CYS:HA	1.96	0.45
9:AL:89:ASN:N	9:AL:90:PRO:CD	2.80	0.45
9:AL:102:LEU:O	9:AL:103:THR:OG1	2.29	0.45
10:AM:13:HIS:HE1	10:AM:14:LYS:HE3	1.81	0.45
10:AM:44:VAL:CG1	10:AM:46:ARG:HG3	2.46	0.45
13:AP:19:LEU:HD22	13:AP:19:LEU:N	2.31	0.45
22:AC:50:U:O2'	22:AC:51:C:H5'	2.16	0.45
24:BA:142:G:H2'	24:BA:143:C:H6	1.80	0.45
24:BA:385:C:O2	24:BA:390:A:C2	2.69	0.45
24:BA:616:A:O2'	24:BA:617:G:OP1	2.29	0.45
24:BA:644:A:N6	24:BA:2349:G:H1'	2.31	0.45
24:BA:754:C:H2'	24:BA:755:C:H6	1.81	0.45
24:BA:833:U:H4'	34:BO:51:PHE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1777:U:O2'	24:BA:1778:U:H5'	2.15	0.45
24:BA:2154:G:H2'	24:BA:2155:G:C8	2.51	0.45
24:BA:2229:C:O2'	24:BA:2230:G:H5'	2.16	0.45
24:BA:2355:C:C5'	45:B3:36:ILE:HD11	2.46	0.45
24:BA:2405:G:HO2'	24:BA:2411:A:N6	2.14	0.45
24:BA:2481:G:C2'	24:BA:2482:G:OP2	2.63	0.45
24:BA:2807:G:N1	24:BA:2893:G:O6	2.49	0.45
26:BD:213:ARG:NH1	26:BD:213:ARG:HG3	2.31	0.45
26:BD:260:ARG:NH2	26:BD:270:ILE:HD11	2.31	0.45
27:BE:70:ALA:C	27:BE:72:VAL:N	2.71	0.45
30:BH:136:ILE:N	30:BH:136:ILE:CD1	2.76	0.45
30:BH:171:LEU:CD2	30:BH:171:LEU:O	2.65	0.45
31:BK:5:LEU:HD11	31:BK:19:VAL:CG1	2.46	0.45
31:BK:144:VAL:O	31:BK:145:VAL:HG22	2.16	0.45
35:BP:28:ALA:HB2	35:BP:67:ARG:HH12	1.79	0.45
36:B0:72:ASP:HB3	36:B0:75:LEU:CB	2.46	0.45
37:BQ:104:GLY:C	37:BQ:106:ARG:H	2.23	0.45
38:BR:96:ARG:CG	38:BR:97:ALA:H	2.29	0.45
39:B1:90:VAL:HA	40:B2:39:LEU:CD2	2.47	0.45
40:B2:39:LEU:N	40:B2:39:LEU:CD1	2.80	0.45
40:B2:73:SER:CB	40:B2:83:ARG:HA	2.46	0.45
43:BU:88:LYS:C	43:BU:90:LEU:H	2.24	0.45
48:BX:19:GLN:O	48:BX:22:ALA:HB3	2.16	0.45
49:B4:13:ARG:O	49:B4:30:GLU:CB	2.64	0.45
49:B4:55:ARG:HB2	49:B4:59:PHE:HD1	1.80	0.45
49:B4:58:ARG:C	49:B4:62:ARG:HG2	2.42	0.45
51:B6:15:GLU:HG3	51:B6:47:THR:HG21	1.96	0.45
53:B8:23:VAL:HG11	53:B8:47:LYS:HB3	1.97	0.45
1:CA:38:G:N1	1:CA:397:A:H2	2.14	0.45
1:CA:353:A:H5'	1:CA:353:A:C8	2.52	0.45
1:CA:450:G:OP1	1:CA:452:A:OP1	2.34	0.45
1:CA:452:A:C6	1:CA:453:A:C6	3.04	0.45
1:CA:627:G:H2'	1:CA:628:G:H8	1.80	0.45
1:CA:1009:G:C2	1:CA:1010:G:C8	3.04	0.45
1:CA:1068:G:OP2	1:CA:1094:G:H5"	2.15	0.45
1:CA:1071:C:H5"	5:CH:49:PRO:HG2	1.98	0.45
1:CA:1279:A:H2	10:CM:43:ARG:HH21	1.64	0.45
2:CE:87:ARG:NH1	2:CE:220:ASP:OD1	2.46	0.45
2:CE:95:GLN:HA	2:CE:95:GLN:OE1	2.16	0.45
3:CF:43:LEU:HD22	3:CF:47:LEU:CD2	2.46	0.45
3:CF:172:ARG:O	3:CF:173:VAL:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CI:68:PRO:HG3	6:CI:71:ARG:NH2	2.31	0.45
7:CJ:54:THR:O	7:CJ:54:THR:HG23	2.16	0.45
13:CP:121:LYS:NZ	22:CB:41:C:C4'	2.73	0.45
15:CR:5:LYS:O	15:CR:8:LYS:CG	2.63	0.45
17:CT:84:LEU:O	17:CT:86:GLU:N	2.49	0.45
20:CW:96:GLY:O	20:CW:97:ALA:CB	2.64	0.45
24:DA:270(R):G:C2'	46:DZ:78:LYS:HZ1	2.28	0.45
24:DA:883:G:O5'	24:DA:883:G:H8	1.98	0.45
24:DA:962:G:H2'	24:DA:963:U:H6	1.82	0.45
24:DA:1086:A:H4'	24:DA:1103:A:N6	2.31	0.45
24:DA:1249:U:O2	24:DA:1249:U:H2'	2.16	0.45
24:DA:2073:C:C5'	26:DD:229:VAL:HG22	2.47	0.45
24:DA:2114:A:C6	24:DA:2118:U:OP2	2.69	0.45
24:DA:2132:U:C2'	24:DA:2133:G:O5'	2.65	0.45
24:DA:2210:G:C5'	24:DA:2211:G:OP2	2.63	0.45
24:DA:2229:C:O2'	24:DA:2230:G:H5'	2.16	0.45
24:DA:2629:A:O2'	24:DA:2630:G:H5"	2.16	0.45
24:DA:2724:C:OP1	27:DE:118:LYS:NZ	2.49	0.45
24:DA:2866:U:O2'	24:DA:2867:G:P	2.74	0.45
24:DA:2883:A:H5'	24:DA:2884:U:H5'	1.98	0.45
27:DE:13:ARG:HH11	27:DE:13:ARG:HB3	1.82	0.45
27:DE:62:PRO:O	27:DE:63:LEU:C	2.59	0.45
27:DE:77:ILE:O	27:DE:78:LEU:O	2.35	0.45
28:DF:65:TRP:CH2	28:DF:72:ARG:HB3	2.50	0.45
31:DK:86:THR:O	31:DK:87:LYS:HB2	2.15	0.45
33:DN:112:MET:O	33:DN:115:VAL:CG2	2.64	0.45
34:DO:37:GLY:O	34:DO:38:GLN:C	2.58	0.45
35:DP:26:TYR:O	35:DP:27:VAL:O	2.33	0.45
37:DQ:13:ARG:O	37:DQ:14:VAL:HB	2.15	0.45
37:DQ:78:LEU:HD21	37:DQ:108:GLY:HA2	1.99	0.45
40:D2:5:VAL:HG22	40:D2:14:VAL:CG2	2.46	0.45
42:DT:8:ILE:CD1	42:DT:42:ALA:HB1	2.46	0.45
43:DU:48:ALA:CB	43:DU:61:ILE:HD13	2.45	0.45
44:DV:52:SER:O	44:DV:54:HIS:N	2.50	0.45
44:DV:152:ALA:H	44:DV:170:THR:N	2.14	0.45
45:D3:66:VAL:O	45:D3:81:VAL:HA	2.16	0.45
46:DZ:49:VAL:HG12	46:DZ:51:VAL:CG2	2.45	0.45
49:D4:64:GLY:C	49:D4:66:SER:N	2.73	0.45
51:D6:17:LYS:O	51:D6:18:ARG:CB	2.64	0.45
53:D8:56:GLU:C	53:D8:58:ILE:N	2.73	0.45
22:CB:9:G:C5'	22:CB:10:G:OP2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:224:C:H2'	1:AA:225:C:C6	2.50	0.45
1:AA:391:G:C6	1:AA:392:G:C5	3.04	0.45
1:AA:406:G:H5"	4:AG:5:ILE:CG2	2.40	0.45
1:AA:542:G:H2'	1:AA:543:C:H6	1.81	0.45
1:AA:909:A:OP1	12:AO:21:LYS:HE2	2.17	0.45
1:AA:998(A):C:H3'	1:AA:999:U:H5"	1.98	0.45
1:AA:1000:A:OP1	1:AA:1000:A:C8	2.69	0.45
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.73	0.45
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.80	0.45
1:AA:1268:A:N3	1:AA:1326:C:O2'	2.45	0.45
2:AE:172:ILE:N	2:AE:172:ILE:CD1	2.79	0.45
2:AE:198:ASP:N	2:AE:198:ASP:OD2	2.48	0.45
4:AG:150:GLU:O	4:AG:153:ARG:N	2.39	0.45
5:AH:144:THR:O	5:AH:146:ALA:N	2.49	0.45
6:AI:100:ASN:HB3	18:AU:29:PHE:HE2	1.81	0.45
9:AL:4:TYR:CE2	9:AL:88:TYR:CG	3.04	0.45
9:AL:65:VAL:HG21	9:AL:73:GLN:CB	2.44	0.45
10:AM:16:LEU:O	10:AM:20:ALA:HB3	2.16	0.45
13:AP:36:LYS:HG2	13:AP:59:TYR:OH	2.16	0.45
15:AR:24:SER:OG	15:AR:25:THR:N	2.49	0.45
19:AV:11:VAL:HB	19:AV:16:LEU:CD1	2.43	0.45
24:BA:155:C:O2	24:BA:155:C:H2'	2.15	0.45
24:BA:426:C:O2'	24:BA:427:U:H5'	2.16	0.45
24:BA:602:G:N2	24:BA:656:G:C5	2.85	0.45
24:BA:847:U:H2'	24:BA:848:G:H5"	1.98	0.45
24:BA:872:A:H4'	35:BP:66:ILE:CD1	2.46	0.45
24:BA:1141:U:O5'	32:BM:63:THR:HG21	2.17	0.45
24:BA:1252:G:O2'	24:BA:1253:A:O5'	2.35	0.45
24:BA:1292:U:H2'	24:BA:1293:C:C6	2.52	0.45
24:BA:1425:G:O2'	24:BA:1426:G:H5'	2.17	0.45
24:BA:1504:C:O2'	24:BA:1505:C:H5"	2.16	0.45
24:BA:2277:G:OP1	35:BP:85:LYS:CB	2.65	0.45
24:BA:2305:A:H2'	24:BA:2306:C:C5'	2.47	0.45
24:BA:2419:U:O4	53:B8:31:HIS:ND1	2.49	0.45
24:BA:2585:U:O2'	24:BA:2586:C:C5'	2.64	0.45
24:BA:2876:G:H4'	38:BR:3:ARG:HD2	1.98	0.45
25:BB:44:G:C2	25:BB:48:A:C2	3.04	0.45
25:BB:97:G:H2'	25:BB:98:G:O4'	2.17	0.45
26:BD:62:TYR:HE1	26:BD:64:ILE:HA	1.82	0.45
26:BD:111:LEU:CD2	26:BD:115:GLN:HE22	2.29	0.45
27:BE:8:LYS:HB3	27:BE:192:ASN:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:157:VAL:HA	28:BF:176:LEU:O	2.16	0.45
30:BH:103:LEU:HD23	30:BH:103:LEU:H	1.81	0.45
30:BH:125:VAL:HG12	30:BH:126:PRO:CG	2.45	0.45
31:BK:82:ARG:HG3	31:BK:146:ALA:HA	1.99	0.45
31:BK:121:LYS:O	31:BK:122:GLU:OE2	2.35	0.45
32:BM:21:LYS:O	32:BM:60:ILE:HG23	2.16	0.45
32:BM:87:LEU:O	32:BM:91:LEU:HG	2.15	0.45
33:BN:1:MET:HB2	33:BN:32:TYR:HB3	1.98	0.45
33:BN:10:VAL:HG11	33:BN:16:ALA:C	2.40	0.45
34:BO:84:ASN:N	34:BO:84:ASN:HD22	2.12	0.45
35:BP:2:LEU:O	35:BP:70:PRO:HG2	2.15	0.45
37:BQ:20:ARG:C	37:BQ:22:GLY:N	2.74	0.45
38:BR:29:ARG:HG3	38:BR:46:GLU:OE1	2.15	0.45
38:BR:55:ASN:C	38:BR:59:THR:HG22	2.42	0.45
38:BR:89:VAL:CG2	38:BR:90:GLN:H	2.27	0.45
38:BR:99:LEU:HB3	38:BR:101:PHE:CE1	2.52	0.45
38:BR:122:ASP:O	38:BR:126:ALA:CB	2.63	0.45
46:BZ:11:ARG:HB2	46:BZ:12:PRO:HD2	1.96	0.45
48:BX:19:GLN:HE22	48:BX:52:HIS:HE1	1.64	0.45
53:B8:61:LEU:HD12	53:B8:62:LEU:H	1.81	0.45
1:CA:416:G:H2'	1:CA:417:C:C6	2.51	0.45
1:CA:689:C:O2'	1:CA:690:G:H5'	2.15	0.45
1:CA:1277:C:O2'	1:CA:1279:A:C8	2.62	0.45
2:CE:37:ASN:C	2:CE:39:ILE:N	2.73	0.45
2:CE:51:LEU:O	2:CE:55:PHE:HD2	2.00	0.45
2:CE:240:GLN:HG2	2:CE:240:GLN:O	2.16	0.45
4:CG:146:ILE:HG22	4:CG:146:ILE:O	2.15	0.45
5:CH:90:VAL:C	5:CH:91:LEU:HD12	2.42	0.45
7:CJ:107:ALA:O	7:CJ:110:GLN:HB2	2.15	0.45
8:CK:33:GLU:O	8:CK:35:ILE:N	2.49	0.45
10:CM:95:GLU:HA	10:CM:95:GLU:OE2	2.16	0.45
11:CN:70:LYS:HA	11:CN:73:MET:HE3	1.98	0.45
12:CO:113:ARG:NH2	12:CO:120:TYR:CE2	2.85	0.45
15:CR:11:VAL:O	15:CR:12:ILE:C	2.60	0.45
15:CR:82:ILE:O	15:CR:86:GLY:N	2.49	0.45
17:CT:86:GLU:O	17:CT:87:LYS:C	2.60	0.45
22:CD:15:G:H2'	22:CD:59:A:C2	2.51	0.45
22:CD:31:G:H2'	22:CD:32:C:C6	2.50	0.45
22:CD:68:C:C2	22:CD:69:C:C6	3.04	0.45
24:DA:685:A:O2'	24:DA:686:G:OP2	2.31	0.45
24:DA:892:G:H2'	24:DA:892:G:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:987:G:H2'	24:DA:988:A:H5'	1.99	0.45
24:DA:1045:A:C8	24:DA:1111:A:N6	2.85	0.45
24:DA:1065:U:C5'	24:DA:1066:U:H5"	2.46	0.45
24:DA:1412:A:O2'	24:DA:1413:G:H5'	2.16	0.45
24:DA:2175:C:H2'	24:DA:2176:A:H5"	1.98	0.45
24:DA:2408:U:O5'	24:DA:2408:U:H6	2.00	0.45
24:DA:2474:C:H5"	24:DA:2475:C:C6	2.51	0.45
24:DA:2553:G:H2'	24:DA:2554:U:O4'	2.17	0.45
24:DA:2689:U:O2'	24:DA:2690:C:OP2	2.31	0.45
24:DA:2756:U:H3	24:DA:2758:A:H62	1.64	0.45
25:DB:42:C:H4'	29:DG:67:LYS:O	2.17	0.45
25:DB:75:G:N1	25:DB:102:G:N2	2.65	0.45
26:DD:11:PRO:O	26:DD:12:SER:CB	2.65	0.45
27:DE:33:VAL:HG12	27:DE:90:THR:H	1.81	0.45
28:DF:7:TYR:N	28:DF:7:TYR:CD1	2.85	0.45
30:DH:66:GLY:O	30:DH:67:LEU:C	2.58	0.45
30:DH:128:PRO:HD2	30:DH:129:THR:N	2.25	0.45
32:DM:113:GLY:O	32:DM:116:LEU:HB2	2.14	0.45
33:DN:53:LYS:N	33:DN:53:LYS:CD	2.69	0.45
34:DO:12:ALA:C	34:DO:14:LYS:N	2.73	0.45
34:DO:115:LEU:HA	34:DO:134:ALA:CB	2.47	0.45
35:DP:30:GLY:CA	35:DP:107:ALA:HB2	2.39	0.45
41:DS:14:PRO:O	41:DS:15:ARG:C	2.58	0.45
43:DU:35:TYR:CD1	43:DU:35:TYR:O	2.69	0.45
51:D6:9:LEU:CD1	51:D6:26:ASN:ND2	2.79	0.45
51:D6:48:VAL:O	51:D6:49:HIS:HB2	2.15	0.45
1:AA:186(C):G:H2'	1:AA:186(D):C:H6	1.82	0.45
1:AA:233:C:O2'	1:AA:234:C:H5'	2.17	0.45
1:AA:448:A:OP2	1:AA:485:G:N2	2.47	0.45
1:AA:450:G:C5'	16:AS:41:PRO:O	2.65	0.45
1:AA:538:G:OP2	12:AO:115:LYS:HB2	2.16	0.45
1:AA:929:G:H5'	1:AA:1534:A:OP2	2.17	0.45
1:AA:1100:C:O2'	1:AA:1101:A:H5'	2.16	0.45
1:AA:1128:C:C3'	1:AA:1139:G:O6	2.59	0.45
1:AA:1155:G:O2'	1:AA:1156:G:H5'	2.16	0.45
1:AA:1190:G:C5'	3:AF:176:HIS:NE2	2.79	0.45
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.32	0.45
1:AA:1453:G:H3'	20:AW:39:LYS:HZ1	1.82	0.45
2:AE:162:ILE:HD11	2:AE:184:VAL:HG13	1.98	0.45
2:AE:187:LEU:HA	2:AE:201:ILE:HB	1.97	0.45
2:AE:230:VAL:HG12	2:AE:230:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:16:ARG:NH2	3:AF:181:ASN:OD1	2.49	0.45
3:AF:172:ARG:C	3:AF:173:VAL:CG2	2.89	0.45
3:AF:184:TYR:HA	3:AF:200:ALA:O	2.15	0.45
4:AG:9:CYS:HA	4:AG:12:CYS:H	1.82	0.45
5:AH:90:VAL:CG2	5:AH:121:LYS:HB3	2.46	0.45
10:AM:32:ALA:HB1	10:AM:75:ILE:CG1	2.46	0.45
13:AP:76:ALA:O	13:AP:79:LYS:N	2.49	0.45
16:AS:55:ARG:O	16:AS:58:TYR:HB3	2.15	0.45
16:AS:59:TRP:O	16:AS:64:ALA:HB3	2.17	0.45
18:AU:62:GLU:C	18:AU:64:ARG:N	2.72	0.45
19:AV:15:LEU:O	19:AV:19:VAL:CG2	2.64	0.45
19:AV:26:GLY:C	19:AV:27:GLU:HG3	2.41	0.45
19:AV:39:THR:CG2	19:AV:40:ILE:H	2.20	0.45
21:AX:6:ARG:CZ	21:AX:15:ARG:HH21	2.29	0.45
22:AC:17:C:H2'	22:AC:17(A):C:C5	2.51	0.45
22:AD:17:C:H3'	22:AD:17(A):C:C5'	2.45	0.45
22:AD:29:G:H2'	22:AD:30:G:O4'	2.15	0.45
22:AD:58:A:C1'	22:AD:60:U:C5	2.99	0.45
24:BA:150:C:H2'	24:BA:151:C:C6	2.52	0.45
24:BA:579:G:H2'	24:BA:580:C:C6	2.52	0.45
24:BA:736:C:H2'	24:BA:737:C:H6	1.81	0.45
24:BA:804:A:H2'	24:BA:806:C:C4	2.51	0.45
24:BA:1053:C:C2'	24:BA:1054:A:H5"	2.44	0.45
24:BA:1071:G:O6	24:BA:1091:G:O6	2.35	0.45
24:BA:1428:C:N4	24:BA:1569:A:H3'	2.31	0.45
24:BA:2642:G:H5"	32:BM:78:TYR:CD2	2.50	0.45
24:BA:2682:U:O2'	38:BR:58:ASN:OD1	2.33	0.45
24:BA:2744:G:N2	30:BH:143:GLN:OE1	2.50	0.45
25:BB:75:G:N1	25:BB:102:G:N2	2.62	0.45
26:BD:143:HIS:O	26:BD:144:ALA:O	2.34	0.45
28:BF:198:ALA:O	28:BF:201:VAL:HG12	2.15	0.45
31:BK:65:ALA:O	31:BK:69:LYS:N	2.50	0.45
34:BO:52:GLU:C	34:BO:52:GLU:OE1	2.59	0.45
34:BO:57:THR:HG23	34:BO:57:THR:O	2.15	0.45
34:BO:63:PRO:HB3	53:B8:13:ARG:CG	2.41	0.45
35:BP:57:HIS:ND1	35:BP:57:HIS:O	2.44	0.45
37:BQ:6:ALA:HA	37:BQ:9:ARG:CZ	2.46	0.45
37:BQ:98:VAL:O	37:BQ:101:LEU:HB3	2.17	0.45
40:B2:51:VAL:CG1	40:B2:52:VAL:N	2.79	0.45
41:BS:18:ARG:HE	41:BS:18:ARG:HB2	1.62	0.45
43:BU:46:LYS:NZ	43:BU:63:LYS:HG2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B4:33:VAL:HG12	49:B4:35:VAL:O	2.17	0.45
50:B5:3:LYS:CG	50:B5:4:HIS:H	2.22	0.45
1:CA:45:U:H2'	1:CA:46:G:C8	2.52	0.45
1:CA:346:G:H2'	1:CA:346:G:N3	2.32	0.45
1:CA:535:A:H5"	1:CA:536:C:OP2	2.16	0.45
1:CA:685:G:N2	1:CA:686:U:C4	2.84	0.45
1:CA:690:G:H22	11:CN:55:LYS:HZ3	1.61	0.45
1:CA:890:G:C2'	1:CA:891:U:OP2	2.65	0.45
1:CA:920:U:H1'	1:CA:1080:A:C2	2.51	0.45
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.17	0.45
1:CA:1053:G:C6	1:CA:1199:U:H2'	2.50	0.45
2:CE:95:GLN:NE2	2:CE:96:ARG:NH1	2.65	0.45
3:CF:108:ASN:HB3	3:CF:111:LEU:HG	1.98	0.45
4:CG:101:LEU:HD21	4:CG:121:VAL:HG13	1.98	0.45
4:CG:187:ARG:HH11	4:CG:187:ARG:HG2	1.81	0.45
7:CJ:148:ASN:ND2	22:CD:40:C:H4'	2.31	0.45
8:CK:102:ARG:NH1	8:CK:105:ARG:CZ	2.80	0.45
9:CL:43:ALA:C	9:CL:45:ALA:N	2.73	0.45
10:CM:29:ARG:HG2	10:CM:29:ARG:HH11	1.81	0.45
11:CN:41:THR:CG2	11:CN:42:TRP:N	2.79	0.45
18:CU:32:ARG:HH11	18:CU:65:ILE:HD13	1.80	0.45
20:CW:24:LEU:HD13	20:CW:24:LEU:O	2.17	0.45
20:CW:71:THR:HG22	20:CW:72:LEU:N	2.32	0.45
22:CC:1:C:O2	22:CC:1:C:H3'	2.16	0.45
22:CD:21:A:C2	22:CD:48:C:H1'	2.51	0.45
24:DA:162:U:OP1	24:DA:162:U:H6	1.98	0.45
24:DA:345:A:H2'	24:DA:347:A:H62	1.80	0.45
24:DA:666:G:H4'	34:DO:49:ARG:HH12	1.78	0.45
24:DA:714:U:O2	24:DA:716:A:C8	2.70	0.45
24:DA:1230:C:H2'	24:DA:1231:G:C8	2.52	0.45
24:DA:2361:A:O5'	53:D8:27:THR:OG1	2.34	0.45
24:DA:2617:C:O2'	24:DA:2618:G:H5'	2.16	0.45
26:DD:65:ILE:HD11	26:DD:67:PHE:CE1	2.51	0.45
26:DD:92:ILE:HD12	26:DD:104:TYR:HD2	1.81	0.45
27:DE:94:GLU:C	27:DE:96:PHE:N	2.73	0.45
27:DE:111:ARG:NE	27:DE:160:TYR:CE1	2.76	0.45
28:DF:31:HIS:O	28:DF:34:TRP:HB3	2.15	0.45
28:DF:117:ARG:NH2	28:DF:189:THR:O	2.50	0.45
31:DK:132:PRO:O	31:DK:133:HIS:C	2.59	0.45
36:D0:29:LEU:N	36:D0:29:LEU:CD1	2.79	0.45
38:DR:10:VAL:O	38:DR:11:GLU:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:D1:95:LEU:HD13	40:D2:4:ILE:HD12	1.98	0.45
42:DT:24:GLY:O	42:DT:82:GLN:HA	2.16	0.45
43:DU:75:ILE:HA	43:DU:80:GLY:HA2	1.98	0.45
43:DU:97:ARG:HG2	43:DU:97:ARG:HH11	1.82	0.45
46:DZ:82:LEU:HD13	46:DZ:83:GLU:C	2.36	0.45
46:DZ:85:LEU:HD22	46:DZ:85:LEU:N	2.31	0.45
47:DW:65:ASN:O	47:DW:66:GLU:C	2.59	0.45
51:D6:11:LEU:H	51:D6:25:LYS:HA	1.81	0.45
51:D6:15:GLU:HB3	51:D6:16:CYS:H	1.46	0.45
52:D7:24:THR:O	52:D7:28:ARG:HG3	2.16	0.45
22:CB:23:G:H2'	22:CB:24:C:C5'	2.47	0.45
1:AA:50:A:N6	1:AA:361:G:H4'	2.31	0.45
1:AA:60:A:HO2'	1:AA:61:G:P	2.40	0.45
1:AA:131:C:H2'	1:AA:132:C:C6	2.52	0.45
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.51	0.45
1:AA:1226:C:H5"	13:AP:96:LEU:CD1	2.46	0.45
1:AA:1238:A:N6	1:AA:1301:U:H3	2.09	0.45
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.16	0.45
1:AA:1365:G:C6	1:AA:1366:C:C4	3.05	0.45
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.47	0.45
1:AA:1503:A:O2'	1:AA:1504:G:OP1	2.33	0.45
1:AA:1541:U:H4'	18:AU:18:ARG:NH1	2.31	0.45
2:AE:8:LYS:HB3	2:AE:217:ARG:HD3	1.99	0.45
2:AE:127:ILE:HD13	2:AE:130:ARG:HG3	1.98	0.45
2:AE:240:GLN:OE1	2:AE:240:GLN:C	2.60	0.45
3:AF:113:ALA:C	3:AF:115:LEU:N	2.75	0.45
5:AH:101:ILE:HD13	5:AH:118:ILE:O	2.17	0.45
6:AI:14:LEU:CD2	6:AI:18:GLN:HB2	2.44	0.45
7:AJ:154:TYR:O	7:AJ:155:ARG:C	2.59	0.45
8:AK:37:ARG:CG	8:AK:38:ILE:N	2.77	0.45
9:AL:43:ALA:O	9:AL:45:ALA:N	2.44	0.45
10:AM:63:PHE:HB3	14:AQ:57:ARG:O	2.17	0.45
11:AN:95:ILE:O	11:AN:99:GLN:HG2	2.17	0.45
17:AT:10:VAL:HG13	17:AT:19:VAL:HB	1.97	0.45
17:AT:29:HIS:ND1	17:AT:30:PRO:HD2	2.31	0.45
20:AW:22:ARG:HH11	20:AW:22:ARG:HG3	1.82	0.45
20:AW:100:ILE:C	20:AW:102:GLY:N	2.75	0.45
22:AC:9:G:H1'	22:AC:46:G:H1'	1.97	0.45
22:AD:6:G:O2'	22:AD:7:G:C5'	2.64	0.45
22:AD:48:C:N4	22:AD:59:A:C5	2.84	0.45
24:BA:215:G:H4'	24:BA:216:A:H4'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:241:A:O2'	24:BA:242:G:O5'	2.32	0.45
24:BA:442:G:O4'	28:BF:46:ARG:HD3	2.15	0.45
24:BA:443:A:H2	24:BA:1245:G:N3	2.15	0.45
24:BA:1080:A:O2'	24:BA:1081:U:H5'	2.17	0.45
24:BA:2702:U:OP1	24:BA:2702:U:H6	1.98	0.45
24:BA:2749:A:H4'	30:BH:62:LYS:HB3	1.98	0.45
28:BF:107:LYS:C	28:BF:109:GLY:N	2.73	0.45
30:BH:69:ARG:HG3	30:BH:69:ARG:NH1	2.32	0.45
31:BK:7:GLU:HG3	31:BK:8:PRO:N	2.31	0.45
31:BK:117:GLU:O	31:BK:118:LYS:C	2.59	0.45
31:BK:131:LYS:CA	31:BK:132:PRO:O	2.65	0.45
32:BM:63:THR:O	32:BM:64:GLY:O	2.34	0.45
34:BO:11:GLY:O	34:BO:12:ALA:HB3	2.16	0.45
35:BP:64:ILE:HG22	35:BP:106:VAL:HG12	1.98	0.45
35:BP:93:TYR:N	35:BP:93:TYR:CD1	2.85	0.45
37:BQ:106:ARG:O	37:BQ:107:GLU:HB2	2.16	0.45
42:BT:8:ILE:HA	42:BT:30:VAL:HG12	1.98	0.45
42:BT:37:THR:C	42:BT:39:ILE:N	2.74	0.45
49:B4:43:TYR:C	49:B4:43:TYR:HD1	2.23	0.45
50:B5:45:VAL:HG11	50:B5:56:LYS:HG3	1.99	0.45
52:B7:47:ARG:HH11	52:B7:47:ARG:CB	2.30	0.45
53:B8:55:ALA:O	53:B8:56:GLU:C	2.59	0.45
1:CA:35:G:H2'	1:CA:36:C:C6	2.51	0.45
1:CA:102:G:C4	1:CA:103:C:C5	3.04	0.45
1:CA:430:A:P	4:CG:9:CYS:H	2.39	0.45
1:CA:920:U:C1'	1:CA:1080:A:C2	3.00	0.45
1:CA:1028:C:C4	1:CA:1028(A):C:C5	3.04	0.45
1:CA:1097:C:O2	1:CA:1169:A:H2	2.00	0.45
1:CA:1135:U:H4'	1:CA:1136:U:C5	2.45	0.45
1:CA:1326:C:OP1	21:CX:12:LYS:HE3	2.16	0.45
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.16	0.45
1:CA:1408:A:O2'	1:CA:1409:C:H5'	2.17	0.45
2:CE:214:ILE:HD13	2:CE:217:ARG:HH22	1.81	0.45
4:CG:52:SER:H	4:CG:55:ALA:HB3	1.82	0.45
4:CG:52:SER:N	4:CG:55:ALA:HB3	2.32	0.45
4:CG:104:VAL:O	4:CG:107:ARG:N	2.49	0.45
4:CG:178:VAL:O	4:CG:181:MET:N	2.50	0.45
6:CI:61:LEU:HD23	6:CI:63:TYR:OH	2.17	0.45
6:CI:75:LEU:HD23	6:CI:75:LEU:C	2.41	0.45
7:CJ:103:TRP:O	7:CJ:104:LEU:C	2.59	0.45
18:CU:63:GLN:OE1	18:CU:63:GLN:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CU:82:THR:HG22	18:CU:83:GLU:H	1.79	0.45
24:DA:228:A:O2'	24:DA:229:A:P	2.75	0.45
24:DA:236:C:H2'	24:DA:237:C:H6	1.82	0.45
24:DA:278:A:C5'	24:DA:278:A:H8	2.30	0.45
24:DA:655:A:C2'	24:DA:656:G:H5'	2.47	0.45
24:DA:1248:G:N2	28:DF:88:VAL:HG22	2.30	0.45
24:DA:1534:G:C8	24:DA:1534:G:H3'	2.51	0.45
24:DA:1654:A:C2	27:DE:113:PHE:CD1	3.05	0.45
24:DA:2240:C:O2'	24:DA:2241:A:H5'	2.15	0.45
24:DA:2818:G:H4'	24:DA:2837:G:O4'	2.17	0.45
24:DA:2832:U:O2'	24:DA:2833:G:OP2	2.35	0.45
24:DA:2847:U:P	38:DR:98:LYS:HZ3	2.39	0.45
24:DA:2854:G:H2'	24:DA:2855:C:C6	2.51	0.45
25:DB:105:G:O2'	25:DB:106:G:H5'	2.17	0.45
26:DD:18:VAL:CG1	26:DD:19:ALA:N	2.78	0.45
26:DD:109:ASP:HB2	26:DD:197:GLY:CA	2.46	0.45
27:DE:51:PHE:HD1	27:DE:52:LEU:H	1.59	0.45
27:DE:95:ILE:HG22	27:DE:95:ILE:O	2.16	0.45
27:DE:101:ARG:C	27:DE:201:THR:OG1	2.58	0.45
29:DG:51:ARG:NH2	29:DG:52:ILE:HD11	2.32	0.45
30:DH:16:SER:OG	30:DH:17:VAL:N	2.50	0.45
31:DK:77:LEU:HB2	31:DK:104:GLN:OE1	2.15	0.45
31:DK:79:ILE:HG23	31:DK:81:VAL:HG13	1.98	0.45
35:DP:52:VAL:O	35:DP:53:ALA:C	2.59	0.45
39:D1:57:PHE:O	39:D1:58:ARG:C	2.59	0.45
40:D2:30:GLY:O	40:D2:31:ALA:O	2.34	0.45
41:DS:21:VAL:O	41:DS:21:VAL:HG12	2.17	0.45
44:DV:108:PRO:HG2	44:DV:112:ARG:N	2.24	0.45
45:D3:36:ILE:HD13	45:D3:36:ILE:N	2.31	0.45
47:DW:18:PRO:C	47:DW:20:GLU:H	2.24	0.45
47:DW:28:LYS:HB3	47:DW:57:ILE:HG12	1.97	0.45
49:D4:3:GLU:HG3	49:D4:4:GLY:H	1.80	0.45
1:AA:190:G:OP1	1:AA:190:G:H8	2.00	0.45
1:AA:585:G:O2'	1:AA:879:C:H5"	2.16	0.45
1:AA:973:G:O6	1:AA:974:A:N6	2.50	0.45
1:AA:1007:C:C3'	1:AA:1008:C:H5"	2.43	0.45
1:AA:1218:C:H2'	1:AA:1219:U:H6	1.79	0.45
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.82	0.45
2:AE:55:PHE:CA	2:AE:58:ILE:HG12	2.40	0.45
4:AG:126:ILE:HG22	4:AG:127:THR:N	2.28	0.45
5:AH:75:THR:HG23	5:AH:76:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AI:54:LYS:HB2	6:AI:54:LYS:NZ	2.31	0.45
7:AJ:57:GLU:N	7:AJ:57:GLU:CD	2.75	0.45
8:AK:4:ASP:OD2	8:AK:7:ALA:CB	2.64	0.45
9:AL:47:LEU:HB3	9:AL:51:ARG:HH12	1.82	0.45
9:AL:59:PHE:N	9:AL:59:PHE:CD1	2.85	0.45
9:AL:121:ARG:HD3	9:AL:122:ALA:O	2.17	0.45
13:AP:70:LEU:O	13:AP:74:VAL:HG23	2.15	0.45
15:AR:27:VAL:O	15:AR:28:GLN:C	2.58	0.45
17:AT:81:ARG:HH21	17:AT:84:LEU:HD21	1.82	0.45
22:AD:42:G:H2'	22:AD:43:A:C8	2.47	0.45
24:BA:222:A:HO2'	24:BA:223:A:P	2.38	0.45
24:BA:322:A:HO2'	24:BA:339:U:H3	1.63	0.45
24:BA:352:G:H2'	24:BA:352:G:N3	2.31	0.45
24:BA:487:C:N4	24:BA:488:G:C6	2.85	0.45
24:BA:558:G:C5'	32:BM:112:LEU:HD22	2.47	0.45
24:BA:727:A:OP1	24:BA:1431:U:O2'	2.33	0.45
24:BA:753:C:H2'	24:BA:754:C:H6	1.82	0.45
24:BA:1344:G:O2'	24:BA:1385:G:H5"	2.17	0.45
24:BA:1431:U:H2'	24:BA:1432:C:H6	1.81	0.45
24:BA:1785:A:N7	24:BA:1787:A:C5	2.84	0.45
24:BA:2063:C:O2	24:BA:2451:A:C2	2.70	0.45
24:BA:2190:G:H5'	24:BA:2190:G:H8	1.82	0.45
24:BA:2308:G:O6	24:BA:2311:A:N1	2.49	0.45
24:BA:2391:G:O2'	24:BA:2424:C:N4	2.49	0.45
24:BA:2415:G:H2'	24:BA:2416:C:H6	1.82	0.45
24:BA:2886:G:H2'	24:BA:2887:U:C6	2.52	0.45
24:BA:2892:A:N6	24:BA:2893:G:N2	2.65	0.45
28:BF:32:LEU:C	28:BF:32:LEU:CD2	2.90	0.45
29:BG:46:ALA:C	29:BG:48:GLU:N	2.75	0.45
29:BG:94:LEU:HD23	29:BG:94:LEU:H	1.82	0.45
29:BG:121:ASN:HD21	29:BG:123:ASN:HB2	1.82	0.45
31:BK:37:VAL:CG1	31:BK:38:LEU:N	2.79	0.45
31:BK:110:ASP:C	31:BK:111:PRO:O	2.57	0.45
35:BP:103:MET:O	35:BP:104:PHE:HB2	2.17	0.45
35:BP:119:ARG:HH11	35:BP:119:ARG:HG3	1.82	0.45
35:BP:132:VAL:HG11	44:BV:81:ARG:NH2	2.31	0.45
35:BP:141:GLN:HE21	44:BV:74:VAL:N	2.15	0.45
39:B1:91:ASP:OD2	39:B1:96:ALA:CA	2.64	0.45
40:B2:24:LYS:HG3	40:B2:64:HIS:NE2	2.31	0.45
42:BT:8:ILE:H	42:BT:8:ILE:CD1	2.14	0.45
43:BU:33:LYS:HE2	43:BU:34:LYS:CG	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:32:HIS:O	44:BV:33:LEU:HD22	2.16	0.45
44:BV:121:HIS:C	44:BV:123:ASP:H	2.24	0.45
50:B5:31:VAL:CG1	50:B5:42:PRO:HG3	2.47	0.45
51:B6:42:TRP:HD1	51:B6:44:ARG:NH1	2.10	0.45
1:CA:439:A:C4	1:CA:496:A:C2	3.05	0.45
1:CA:490:G:O2'	1:CA:491:G:H5'	2.17	0.45
1:CA:626:U:O2'	1:CA:627:G:H5'	2.17	0.45
1:CA:914:A:H2'	1:CA:915:A:H8	1.82	0.45
1:CA:1002:G:C2	1:CA:1003:G:C5	3.04	0.45
1:CA:1034:G:H2'	1:CA:1035:A:H8	1.81	0.45
1:CA:1059:C:O2	10:CM:53:PRO:HG3	2.17	0.45
1:CA:1186:G:H21	14:CQ:61:TRP:C	2.23	0.45
1:CA:1305:G:C5'	21:CX:4:GLY:HA3	2.47	0.45
5:CH:48:ALA:C	5:CH:50:GLU:H	2.24	0.45
7:CJ:95:ARG:HG2	7:CJ:99:LEU:HD12	1.98	0.45
8:CK:33:GLU:C	8:CK:35:ILE:H	2.25	0.45
11:CN:48:ILE:HD11	11:CN:64:ALA:N	2.32	0.45
13:CP:15:VAL:O	13:CP:19:LEU:CD2	2.64	0.45
13:CP:28:ALA:C	13:CP:30:ALA:H	2.24	0.45
15:CR:77:ARG:HA	15:CR:80:ALA:HB2	1.99	0.45
16:CS:22:THR:CA	16:CS:33:ILE:HG12	2.41	0.45
19:CV:69:HIS:O	19:CV:70:LYS:O	2.34	0.45
24:DA:185:U:H2'	24:DA:186:G:C8	2.52	0.45
24:DA:207:A:H2'	24:DA:208:C:O4'	2.17	0.45
24:DA:237:C:C2'	24:DA:238:C:H5'	2.45	0.45
24:DA:482:A:N6	24:DA:506:G:O2'	2.50	0.45
24:DA:858:U:O2'	24:DA:2268:A:C2'	2.65	0.45
24:DA:991:C:H2'	24:DA:992:C:O5'	2.16	0.45
24:DA:1094:U:O2'	24:DA:1096:A:OP1	2.34	0.45
24:DA:1204:A:C2'	24:DA:1205:U:OP2	2.65	0.45
24:DA:1313:U:H3'	24:DA:1314:C:H5'	1.98	0.45
24:DA:1568:G:OP1	26:DD:63:ARG:CZ	2.64	0.45
24:DA:1726:G:O2'	24:DA:1727:U:H5'	2.17	0.45
24:DA:2115:G:O6	24:DA:2163:C:OP1	2.35	0.45
24:DA:2313:C:H5'	29:DG:40:ASN:ND2	2.32	0.45
24:DA:2395:C:H2'	24:DA:2396:G:O4'	2.17	0.45
24:DA:2762:G:H2'	24:DA:2763:G:H5'	1.99	0.45
24:DA:2836:U:H2'	24:DA:2837:G:C8	2.52	0.45
27:DE:47:VAL:O	27:DE:47:VAL:HG23	2.16	0.45
27:DE:154:LYS:HD3	27:DE:154:LYS:C	2.42	0.45
28:DF:45:ARG:CG	28:DF:45:ARG:NH1	2.71	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:167:ALA:HB1	28:DF:173:VAL:HG11	1.99	0.45
29:DG:44:GLY:HA2	29:DG:88:ILE:HG12	1.97	0.45
31:DK:78:THR:O	31:DK:79:ILE:HG12	2.16	0.45
32:DM:20:GLY:HA2	32:DM:61:ARG:HD2	1.99	0.45
33:DN:22:ILE:HG12	33:DN:41:ALA:HA	1.98	0.45
34:DO:92:GLU:HA	34:DO:123:LEU:HD23	1.98	0.45
35:DP:59:ARG:N	35:DP:59:ARG:HD2	2.31	0.45
39:D1:5:LYS:C	39:D1:7:GLY:N	2.75	0.45
40:D2:47:VAL:O	40:D2:48:GLY:O	2.34	0.45
41:DS:88:ARG:CB	41:DS:92:ARG:HB3	2.47	0.45
46:DZ:54:ALA:O	46:DZ:55:GLY:O	2.35	0.45
46:DZ:60:PHE:CE2	46:DZ:91:LYS:NZ	2.84	0.45
47:DW:15:LYS:H	47:DW:67:LYS:HZ3	1.65	0.45
1:AA:3:G:H4'	1:AA:4:U:H5"	1.99	0.45
1:AA:360:A:C2'	1:AA:361:G:H5'	2.47	0.45
1:AA:833:U:H2'	1:AA:834:C:C6	2.52	0.45
1:AA:878:G:H5'	8:AK:89:PRO:CG	2.46	0.45
1:AA:1252:A:H2'	1:AA:1253:G:O4'	2.17	0.45
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.17	0.45
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.33	0.45
1:AA:1364:U:H2'	1:AA:1365:G:OP1	2.17	0.45
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.51	0.45
2:AE:36:ARG:HG3	2:AE:36:ARG:NH1	2.30	0.45
3:AF:141:VAL:O	3:AF:141:VAL:HG12	2.16	0.45
8:AK:1:MET:O	8:AK:2:LEU:O	2.35	0.45
8:AK:34:GLU:C	8:AK:36:LEU:N	2.74	0.45
8:AK:112:LEU:HD12	8:AK:114:THR:HG22	1.98	0.45
9:AL:27:THR:CG2	9:AL:32:ASP:HA	2.46	0.45
10:AM:4:ILE:CD1	10:AM:82:ILE:HD11	2.47	0.45
10:AM:96:ILE:HD13	10:AM:96:ILE:H	1.80	0.45
11:AN:92:GLU:O	11:AN:93:GLN:C	2.60	0.45
12:AO:32:PHE:CG	12:AO:84:LEU:HD11	2.51	0.45
13:AP:53:VAL:O	13:AP:57:ARG:HD3	2.17	0.45
13:AP:97:PRO:CA	13:AP:110:ARG:HD3	2.46	0.45
16:AS:42:ARG:O	16:AS:44:THR:HG23	2.17	0.45
17:AT:58:GLU:HG3	17:AT:77:VAL:HG22	1.99	0.45
19:AV:45:VAL:O	19:AV:47:HIS:N	2.49	0.45
20:AW:29:LYS:H	20:AW:29:LYS:HG2	1.37	0.45
24:BA:127:A:H5"	24:BA:128:C:O4'	2.16	0.45
24:BA:218:A:H2	24:BA:235:U:H4'	1.81	0.45
24:BA:403:U:O2'	24:BA:404:C:OP2	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:532:A:N7	24:BA:2021:C:H2'	2.31	0.45
24:BA:586:A:N1	24:BA:809:G:O2'	2.44	0.45
24:BA:634:C:H2'	24:BA:635:C:H6	1.82	0.45
24:BA:957:A:N6	24:BA:2494:G:N2	2.65	0.45
24:BA:1001:A:H2'	24:BA:1002:G:H5'	1.97	0.45
24:BA:1085:A:O2'	24:BA:1086:A:P	2.75	0.45
24:BA:1171:G:H1'	24:BA:1173:G:C4'	2.47	0.45
24:BA:1348:G:C2'	24:BA:1349:A:C5'	2.91	0.45
24:BA:1632:A:H8	24:BA:1632:A:O5'	1.99	0.45
24:BA:1751:C:H2'	24:BA:1752:C:C6	2.51	0.45
24:BA:2135:A:O2'	24:BA:2160:G:H4'	2.16	0.45
24:BA:2273:A:H2'	24:BA:2274:A:C8	2.51	0.45
24:BA:2747:G:H21	24:BA:2757:A:N6	2.13	0.45
25:BB:8:U:H5'	25:BB:8:U:C6	2.39	0.45
25:BB:12:C:C5'	25:BB:13:A:OP1	2.65	0.45
25:BB:74:U:C2'	25:BB:75:G:C5'	2.91	0.45
25:BB:81:G:H5'	25:BB:82:G:OP2	2.17	0.45
26:BD:231:HIS:ND1	26:BD:232:PRO:HD2	2.32	0.45
27:BE:35:GLN:HE22	27:BE:37:ARG:HH21	1.65	0.45
28:BF:46:ARG:HG2	28:BF:46:ARG:NH1	2.31	0.45
30:BH:44:VAL:CG2	30:BH:51:ARG:NH1	2.74	0.45
30:BH:61:HIS:C	30:BH:63:SER:N	2.74	0.45
33:BN:88:ASN:C	33:BN:90:GLN:N	2.75	0.45
37:BQ:56:LEU:O	37:BQ:57:LYS:C	2.60	0.45
39:B1:106:PHE:O	39:B1:110:VAL:HG23	2.17	0.45
41:BS:12:ILE:HG13	41:BS:42:ARG:NH1	2.26	0.45
42:BT:12:VAL:HG12	42:BT:28:PHE:HA	1.99	0.45
43:BU:8:LYS:N	43:BU:11:ASP:OD2	2.50	0.45
43:BU:75:ILE:HG13	43:BU:79:CYS:HA	1.99	0.45
45:B3:12:ASN:HA	45:B3:14:ARG:HH21	1.81	0.45
47:BW:25:VAL:C	47:BW:27:GLU:H	2.24	0.45
49:B4:13:ARG:O	49:B4:30:GLU:HA	2.16	0.45
1:CA:312:C:O2'	1:CA:313:A:H5'	2.16	0.45
1:CA:390:C:H2'	1:CA:391:G:C8	2.51	0.45
1:CA:464:G:N2	1:CA:468:A:H62	2.14	0.45
1:CA:676:A:H2'	1:CA:677:U:C6	2.52	0.45
1:CA:835:U:OP2	18:CU:60:ALA:HB3	2.16	0.45
1:CA:1025:U:C2'	1:CA:1026:G:H8	2.28	0.45
1:CA:1060:C:C5	3:CF:2:GLY:CA	3.00	0.45
1:CA:1112:C:H1'	3:CF:179:ARG:NH1	2.28	0.45
1:CA:1178:G:C5'	9:CL:93:ARG:NH2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1269:A:H2	1:CA:1312:G:N3	2.14	0.45
1:CA:1276:G:H2'	1:CA:1277:C:O4'	2.17	0.45
1:CA:1317:C:O2	19:CV:37:ARG:NH1	2.46	0.45
1:CA:1409:C:H4'	24:DA:1915:U:O4	2.17	0.45
1:CA:1536:C:OP1	1:CA:1536:C:H6	2.00	0.45
3:CF:92:ALA:HB2	3:CF:99:VAL:HG11	1.99	0.45
6:CI:3:ARG:HH11	6:CI:3:ARG:HG3	1.80	0.45
6:CI:101:ALA:HA	18:CU:28:GLU:CG	2.46	0.45
7:CJ:79:ARG:HG2	7:CJ:79:ARG:NH1	2.29	0.45
8:CK:64:LYS:HB3	8:CK:79:VAL:HG21	1.98	0.45
9:CL:47:LEU:HD22	9:CL:47:LEU:H	1.81	0.45
9:CL:71:SER:O	9:CL:72:GLY:C	2.58	0.45
11:CN:32:ILE:HD11	11:CN:72:ALA:HB2	1.96	0.45
13:CP:57:ARG:HD2	13:CP:61:GLU:OE2	2.17	0.45
15:CR:30:ALA:HA	15:CR:85:LEU:HD11	1.97	0.45
15:CR:82:ILE:CG2	15:CR:83:GLU:N	2.79	0.45
16:CS:50:LYS:HD3	16:CS:50:LYS:C	2.41	0.45
23:C1:14:A:O2'	23:C1:15:A:H5'	2.17	0.45
24:DA:90:U:HO2'	24:DA:91:A:H8	1.58	0.45
24:DA:244:A:H2'	24:DA:245:G:O4'	2.17	0.45
24:DA:270(T):G:C5	24:DA:270(U):C:C5	3.05	0.45
24:DA:439:G:H2'	24:DA:440:G:C8	2.52	0.45
24:DA:484:C:OP1	43:DU:51:VAL:HG11	2.16	0.45
24:DA:571:A:H2'	40:D2:78:LYS:HZ2	1.82	0.45
24:DA:656:G:H2'	24:DA:657:U:O4'	2.17	0.45
24:DA:675:A:N7	24:DA:803:U:N3	2.62	0.45
24:DA:747:U:O2	24:DA:2014:A:H1'	2.17	0.45
24:DA:859:G:O2'	24:DA:860:U:OP2	2.35	0.45
24:DA:1128:A:O2'	24:DA:1129:A:O5'	2.35	0.45
24:DA:1270:C:H5"	24:DA:1271:G:C5'	2.47	0.45
24:DA:2063:C:C5	24:DA:2064:C:C5	3.04	0.45
24:DA:2779:U:H1'	24:DA:2781:A:C6	2.51	0.45
25:DB:52:A:O2'	25:DB:53:A:C8	2.67	0.45
25:DB:110:G:H2'	25:DB:111:U:O4'	2.16	0.45
26:DD:35:LYS:CE	26:DD:64:ILE:C	2.89	0.45
26:DD:68:LYS:HD2	26:DD:70:TRP:CZ2	2.52	0.45
26:DD:198:ASN:ND2	26:DD:198:ASN:O	2.50	0.45
27:DE:2:LYS:O	27:DE:199:ARG:HA	2.17	0.45
31:DK:37:VAL:HG12	31:DK:38:LEU:N	2.30	0.45
31:DK:56:LYS:HZ2	31:DK:60:GLU:HB2	1.81	0.45
32:DM:114:ARG:O	32:DM:115:ARG:CB	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DN:31:LYS:C	33:DN:32:TYR:CD2	2.94	0.45
33:DN:97:ARG:H	33:DN:117:LEU:CD2	2.24	0.45
34:DO:21:ARG:HA	34:DO:21:ARG:HE	1.81	0.45
35:DP:34:LEU:HB2	35:DP:118:LEU:HD22	1.99	0.45
35:DP:58:PHE:C	35:DP:59:ARG:HD2	2.42	0.45
37:DQ:5:THR:OG1	37:DQ:8:GLU:HG3	2.17	0.45
39:D1:79:PHE:CE2	39:D1:83:LEU:HD13	2.51	0.45
43:DU:25:GLY:HA3	43:DU:39:VAL:CG1	2.47	0.45
43:DU:57:GLN:O	43:DU:58:GLY:C	2.60	0.45
44:DV:136:PHE:CD1	44:DV:137:ILE:N	2.84	0.45
51:D6:18:ARG:O	51:D6:19:ARG:O	2.33	0.45
22:CB:17:C:OP2	22:CB:19:G:H5'	2.17	0.45
1:AA:60:A:O2'	1:AA:61:G:OP2	2.32	0.45
1:AA:122:G:H8	1:AA:122:G:O5'	2.00	0.45
1:AA:251:G:H5'	1:AA:252:U:OP1	2.17	0.45
1:AA:370:C:O2'	1:AA:371:G:H5'	2.17	0.45
1:AA:493:G:H8	1:AA:493:G:O5'	2.00	0.45
1:AA:524:G:H2'	1:AA:525:C:C6	2.52	0.45
1:AA:812:C:C2'	1:AA:813:U:OP2	2.65	0.45
1:AA:1054:C:O2'	1:AA:1055:A:H5"	2.17	0.45
1:AA:1269:A:H2'	1:AA:1270:C:O4'	2.17	0.45
1:AA:1368:G:OP2	9:AL:112:LYS:HD2	2.17	0.45
3:AF:16:ARG:H	3:AF:16:ARG:NH1	2.13	0.45
3:AF:78:GLY:O	3:AF:81:GLY:N	2.50	0.45
3:AF:84:ILE:O	3:AF:88:ARG:CG	2.60	0.45
4:AG:64:LEU:O	4:AG:67:ILE:HB	2.17	0.45
4:AG:103:ASN:O	4:AG:104:VAL:C	2.59	0.45
5:AH:15:ARG:NH1	23:A1:25:A:N7	2.63	0.45
5:AH:33:VAL:HG12	5:AH:34:VAL:H	1.82	0.45
6:AI:61:LEU:HD23	6:AI:63:TYR:CE2	2.52	0.45
7:AJ:126:ASP:O	7:AJ:129:GLU:HB3	2.16	0.45
8:AK:64:LYS:HD2	8:AK:79:VAL:HG21	1.99	0.45
9:AL:114:TYR:HE1	10:AM:60:ARG:O	2.00	0.45
10:AM:54:PHE:CZ	10:AM:55:LYS:HD2	2.52	0.45
11:AN:34:ASP:OD2	11:AN:34:ASP:C	2.58	0.45
11:AN:91:ARG:HG2	11:AN:91:ARG:HH11	1.81	0.45
13:AP:70:LEU:HD22	13:AP:71:ARG:N	2.32	0.45
15:AR:21:ASP:CG	15:AR:24:SER:HB2	2.42	0.45
17:AT:52:LYS:HD2	17:AT:55:ASP:OD2	2.17	0.45
20:AW:19:SER:O	20:AW:22:ARG:HB2	2.17	0.45
24:BA:60:G:H5"	47:BW:54:LYS:HZ3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:322:A:O2'	24:BA:339:U:N3	2.48	0.45
24:BA:568:U:O2'	24:BA:570:G:N7	2.39	0.45
24:BA:683:C:H6	24:BA:683:C:O5'	2.00	0.45
24:BA:822:U:H2'	24:BA:823:G:H8	1.82	0.45
24:BA:916:G:C2'	24:BA:917:A:H5"	2.46	0.45
24:BA:1086:A:C4'	24:BA:1103:A:H61	2.25	0.45
24:BA:1478:G:H2'	24:BA:1479:G:H8	1.81	0.45
24:BA:1951:U:O2	24:BA:1953:A:C8	2.70	0.45
24:BA:2092:U:C5	24:BA:2226:C:OP1	2.70	0.45
24:BA:2439:A:H8	24:BA:2439:A:C5'	2.29	0.45
24:BA:2648:C:H2'	24:BA:2649:U:C6	2.52	0.45
24:BA:2672:G:C2'	24:BA:2673:G:H5"	2.47	0.45
26:BD:34:VAL:HG13	26:BD:104:TYR:CE1	2.52	0.45
27:BE:6:GLY:O	27:BE:195:LEU:HD12	2.17	0.45
27:BE:52:LEU:HB3	27:BE:75:VAL:HG23	1.98	0.45
27:BE:179:GLU:HA	27:BE:179:GLU:OE2	2.16	0.45
28:BF:25:PRO:HB2	28:BF:26:ALA:H	1.59	0.45
29:BG:40:ASN:ND2	29:BG:41:GLN:N	2.65	0.45
29:BG:53:LEU:O	29:BG:57:ALA:HB2	2.17	0.45
29:BG:135:LEU:HD23	29:BG:140:ILE:HD11	1.99	0.45
31:BK:56:LYS:O	31:BK:57:ARG:C	2.59	0.45
31:BK:128:LEU:O	31:BK:138:ILE:HG22	2.17	0.45
34:BO:45:LEU:CD1	34:BO:46:LYS:H	2.30	0.45
34:BO:102:ARG:HH21	34:BO:102:ARG:HG3	1.82	0.45
34:BO:108:LYS:C	34:BO:110:TYR:H	2.24	0.45
36:B0:18:LEU:HD11	36:B0:22:ARG:NH2	2.32	0.45
36:B0:21:TYR:N	36:B0:21:TYR:CD2	2.85	0.45
36:B0:28:LEU:HD13	36:B0:28:LEU:C	2.42	0.45
37:BQ:11:LYS:HG3	37:BQ:15:ARG:HE	1.82	0.45
37:BQ:54:LEU:HD13	37:BQ:54:LEU:C	2.41	0.45
38:BR:27:THR:CG2	38:BR:90:GLN:HB3	2.46	0.45
41:BS:80:PRO:HD2	41:BS:100:THR:HG21	1.99	0.45
43:BU:14:LEU:HD23	43:BU:73:ARG:HB2	1.99	0.45
43:BU:95:LYS:NZ	43:BU:96:ILE:O	2.49	0.45
47:BW:70:GLN:HG2	47:BW:71:ASN:N	2.31	0.45
50:B5:52:TYR:O	50:B5:53:ALA:CB	2.64	0.45
53:B8:11:LYS:HZ1	53:B8:63:PRO:HB3	1.82	0.45
1:CA:22:G:O2'	1:CA:23:C:H5'	2.16	0.45
1:CA:191(F):U:O2	20:CW:105:SER:HB2	2.17	0.45
1:CA:251:G:N2	1:CA:253:U:C5	2.85	0.45
1:CA:529:G:O4'	1:CA:533:A:C2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:765:G:N2	1:CA:812:C:H2'	2.32	0.45
1:CA:1285:A:C8	1:CA:1285:A:OP1	2.70	0.45
1:CA:1413:A:C5	1:CA:1414:U:C5	3.04	0.45
2:CE:25:ASN:HA	2:CE:26:PRO:HD2	1.85	0.45
2:CE:68:ILE:HB	2:CE:70:PHE:HE1	1.82	0.45
2:CE:170:GLU:CA	2:CE:172:ILE:HD12	2.46	0.45
2:CE:229:VAL:HG12	2:CE:229:VAL:O	2.17	0.45
3:CF:22:TRP:HB3	3:CF:59:ARG:HB2	1.99	0.45
3:CF:42:LEU:HD12	3:CF:45:LYS:NZ	2.32	0.45
4:CG:133:VAL:HG12	4:CG:135:LEU:H	1.82	0.45
5:CH:7:GLU:HB3	5:CH:112:LEU:HD13	1.99	0.45
5:CH:12:LEU:HB3	5:CH:31:LEU:CB	2.46	0.45
12:CO:64:TYR:O	12:CO:65:GLU:HB2	2.17	0.45
13:CP:65:LYS:NZ	13:CP:69:GLU:HG2	2.31	0.45
17:CT:48:GLU:O	17:CT:50:LYS:N	2.50	0.45
17:CT:59:ILE:N	17:CT:59:ILE:CD1	2.78	0.45
17:CT:82:MET:C	17:CT:84:LEU:H	2.25	0.45
19:CV:15:LEU:O	19:CV:16:LEU:C	2.60	0.45
20:CW:44:ALA:O	20:CW:91:LEU:HB3	2.16	0.45
22:CD:18:G:N1	22:CD:55:U:O2	2.48	0.45
22:CD:35:A:H2'	22:CD:36:U:O4'	2.17	0.45
24:DA:173:G:H2'	24:DA:174:C:H6	1.79	0.45
24:DA:275:G:H21	24:DA:276:A:N6	2.15	0.45
24:DA:520:G:H2'	24:DA:521:G:H8	1.82	0.45
24:DA:549:G:H2'	24:DA:550:G:O4'	2.17	0.45
24:DA:728:G:O2'	24:DA:729:G:P	2.74	0.45
24:DA:1053:C:C3'	24:DA:1054:A:C5'	2.94	0.45
24:DA:1180:C:H6	24:DA:1180:C:C5'	2.30	0.45
24:DA:1205:U:C4'	24:DA:1206:G:OP2	2.65	0.45
24:DA:1318:C:C3'	24:DA:1319:G:H5"	2.46	0.45
24:DA:1856:G:H2'	24:DA:1857:G:H5'	1.98	0.45
24:DA:1930:G:HO2'	24:DA:1968:G:H1	1.64	0.45
24:DA:2065:C:C2	24:DA:2066:C:C5	3.05	0.45
24:DA:2168:G:N2	24:DA:2169:A:H3'	2.31	0.45
24:DA:2230:G:C6	24:DA:2231:C:C4	3.05	0.45
24:DA:2408:U:H2'	24:DA:2409:G:C8	2.52	0.45
24:DA:2618:G:H2'	24:DA:2619:C:H6	1.81	0.45
24:DA:2870:C:C5'	36:D0:65:LEU:HD21	2.46	0.45
26:DD:25:THR:CG2	26:DD:25:THR:O	2.65	0.45
26:DD:154:LYS:C	26:DD:155:LEU:HD12	2.41	0.45
27:DE:4:ILE:HG12	27:DE:91:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:199:ARG:HG3	27:DE:199:ARG:HH11	1.82	0.45
28:DF:61:GLY:O	28:DF:62:ARG:C	2.57	0.45
30:DH:137:ASP:HB2	30:DH:140:LYS:HE3	1.98	0.45
32:DM:5:VAL:O	32:DM:5:VAL:HG13	2.16	0.45
35:DP:65:PHE:O	35:DP:66:ILE:CG1	2.48	0.45
38:DR:24:PRO:HD3	38:DR:52:ILE:HD12	1.99	0.45
39:D1:27:LEU:HD12	39:D1:31:SER:HB3	1.98	0.45
40:D2:95:LEU:C	40:D2:95:LEU:HD13	2.42	0.45
41:DS:74:ALA:C	41:DS:75:TYR:HD1	2.24	0.45
44:DV:105:VAL:HG11	44:DV:138:GLU:HG2	1.99	0.45
46:DZ:80:LEU:O	46:DZ:81:LYS:CD	2.65	0.45
51:D6:15:GLU:OE2	51:D6:44:ARG:NH1	2.49	0.45
52:D7:2:LYS:HG2	52:D7:3:ARG:N	2.31	0.45
22:CB:30:G:H2'	22:CB:31:G:O4'	2.17	0.45
1:AA:173:U:H1'	1:AA:197:A:N1	2.32	0.45
1:AA:706:A:N7	1:AA:707:C:C5	2.85	0.45
1:AA:737:A:O2'	6:AI:73:ASN:ND2	2.50	0.45
1:AA:754:C:H1'	15:AR:69:TYR:CD1	2.52	0.45
1:AA:765:G:N1	1:AA:812:C:H2'	2.32	0.45
1:AA:872:A:HO2'	1:AA:873:A:P	2.40	0.45
1:AA:1030:C:C2'	1:AA:1031:G:OP1	2.65	0.45
1:AA:1117:G:O3'	9:AL:104:ARG:CD	2.65	0.45
1:AA:1227:A:C4	13:AP:117:VAL:CG2	3.00	0.45
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.82	0.45
2:AE:41:ILE:N	2:AE:41:ILE:CD1	2.80	0.45
2:AE:61:LEU:HG	2:AE:68:ILE:HD11	1.98	0.45
3:AF:121:ALA:HB2	3:AF:198:VAL:HG21	1.99	0.45
4:AG:21:LEU:H	4:AG:21:LEU:HG	0.92	0.45
4:AG:138:TYR:C	4:AG:138:TYR:CD2	2.95	0.45
5:AH:10:MET:CG	5:AH:32:VAL:HG22	2.45	0.45
5:AH:143:ARG:NH1	8:AK:77:GLU:OE1	2.49	0.45
7:AJ:16:LEU:O	7:AJ:17:VAL:HB	2.16	0.45
7:AJ:16:LEU:C	7:AJ:17:VAL:HG23	2.42	0.45
8:AK:54:ASP:C	8:AK:56:LYS:N	2.74	0.45
10:AM:13:HIS:ND1	10:AM:14:LYS:N	2.65	0.45
13:AP:3:ARG:HB2	29:BG:113:ARG:HH21	1.80	0.45
13:AP:67:GLU:C	13:AP:69:GLU:H	2.25	0.45
13:AP:108:ARG:HG3	13:AP:108:ARG:NH1	2.32	0.45
14:AQ:53:LEU:HB3	14:AQ:56:VAL:HG21	1.99	0.45
15:AR:62:GLN:O	15:AR:63:ARG:C	2.58	0.45
18:AU:50:ILE:HD12	18:AU:70:ILE:CD1	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AU:72:ARG:O	18:AU:75:ILE:HB	2.16	0.45
19:AV:20:LEU:CA	19:AV:44:MET:HE1	2.41	0.45
22:AC:37:A:C2	23:A1:16:A:C6	3.05	0.45
22:AC:64:G:H2'	22:AC:65:C:H6	1.82	0.45
24:BA:9:U:H3	24:BA:2629:A:N6	2.15	0.45
24:BA:222:A:H62	24:BA:232:G:H21	1.65	0.45
24:BA:228:A:C5	24:BA:230:U:C2	3.04	0.45
24:BA:466:A:H1'	24:BA:683:C:O4'	2.16	0.45
24:BA:605:C:H1'	24:BA:657:U:O2'	2.15	0.45
24:BA:654(C):G:H3'	24:BA:654(C):G:C4	2.52	0.45
24:BA:795:C:H2'	24:BA:796:C:C6	2.52	0.45
24:BA:871:U:C5'	35:BP:5:ARG:NH2	2.80	0.45
24:BA:918:A:H8	24:BA:918:A:O5'	2.00	0.45
24:BA:954:G:O2'	24:BA:2274:A:N1	2.42	0.45
24:BA:961:C:H5"	24:BA:962:G:OP2	2.17	0.45
24:BA:1041:C:H2'	24:BA:1042:G:C8	2.52	0.45
24:BA:1364:G:OP1	46:BZ:3:LYS:HD3	2.16	0.45
24:BA:1515:C:H2'	24:BA:1516:U:C6	2.52	0.45
24:BA:1665:A:C4'	33:BN:67:LYS:HB2	2.43	0.45
24:BA:2314:C:C2	24:BA:2315:G:C8	3.04	0.45
24:BA:2458:G:C2'	24:BA:2490:G:O6	2.56	0.45
24:BA:2720:U:C2	24:BA:2721:A:C8	3.05	0.45
24:BA:2748:A:H2	24:BA:2753:A:H61	1.63	0.45
25:BB:28:C:H5"	37:BQ:31:SER:HB3	1.99	0.45
25:BB:96:G:C6	25:BB:97:G:N7	2.84	0.45
26:BD:44:ASN:HD22	26:BD:48:ARG:C	2.25	0.45
27:BE:11:MET:HG3	27:BE:24:THR:HA	1.98	0.45
27:BE:186:GLY:O	27:BE:187:ALA:C	2.60	0.45
27:BE:200:GLU:CG	27:BE:201:THR:N	2.72	0.45
28:BF:20:LEU:HD13	28:BF:199:TRP:HZ3	1.82	0.45
28:BF:170:LEU:H	28:BF:170:LEU:HD12	1.82	0.45
29:BG:18:GLU:O	29:BG:18:GLU:HG3	2.16	0.45
31:BK:82:ARG:HH11	31:BK:82:ARG:HG2	1.81	0.45
32:BM:11:PRO:HB2	32:BM:51:PHE:CE1	2.52	0.45
32:BM:71:ILE:CD1	32:BM:71:ILE:O	2.64	0.45
32:BM:120:LEU:HD23	32:BM:120:LEU:O	2.17	0.45
32:BM:127:ASP:C	32:BM:128:HIS:ND1	2.75	0.45
34:BO:12:ALA:C	34:BO:14:LYS:N	2.72	0.45
34:BO:95:VAL:HG23	34:BO:125:VAL:HG23	1.99	0.45
35:BP:110:THR:C	35:BP:112:GLU:H	2.24	0.45
37:BQ:15:ARG:CZ	37:BQ:88:ASP:OD1	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:42:ASP:C	37:BQ:44:LYS:N	2.75	0.45
37:BQ:109:GLY:O	37:BQ:110:LEU:O	2.34	0.45
38:BR:132:LYS:NZ	38:BR:132:LYS:CB	2.80	0.45
39:B1:112:ARG:O	39:B1:116:ALA:HB3	2.17	0.45
42:BT:90:GLU:O	42:BT:91:ALA:C	2.60	0.45
47:BW:45:SER:C	47:BW:46:GLN:NE2	2.75	0.45
48:BX:54:VAL:HG12	48:BX:55:ARG:N	2.32	0.45
50:B5:40:LYS:CE	50:B5:46:CYS:H	2.29	0.45
1:CA:119:A:H5"	1:CA:120:A:O4'	2.17	0.45
1:CA:372:C:H42	1:CA:389:A:H62	1.63	0.45
1:CA:377:G:P	16:CS:5:ARG:HH11	2.39	0.45
1:CA:983:A:C2	1:CA:984:C:C6	3.02	0.45
1:CA:1014:A:C4'	19:CV:14:HIS:CD2	2.96	0.45
1:CA:1027:C:C2	1:CA:1028:C:C5	3.05	0.45
1:CA:1053:G:N7	1:CA:1200:C:H5"	2.31	0.45
1:CA:1227:A:N7	1:CA:1228:C:C6	2.85	0.45
2:CE:22:LYS:O	2:CE:24:TRP:N	2.50	0.45
2:CE:77:ALA:HB2	2:CE:211:ILE:HG21	1.99	0.45
5:CH:101:ILE:HD13	5:CH:101:ILE:H	1.82	0.45
7:CJ:95:ARG:HG3	7:CJ:95:ARG:HH11	1.82	0.45
7:CJ:102:ARG:HG2	7:CJ:106:GLN:HE21	1.80	0.45
11:CN:75:TYR:N	11:CN:75:TYR:CD1	2.85	0.45
13:CP:8:GLU:OE2	29:DG:115:ARG:NH1	2.50	0.45
18:CU:44:LEU:C	18:CU:45:SER:O	2.59	0.45
20:CW:36:LEU:HD13	20:CW:36:LEU:HA	1.82	0.45
20:CW:53:LEU:HD12	20:CW:100:ILE:HG23	1.98	0.45
22:CC:7:G:H4'	22:CC:8:U:OP2	2.16	0.45
24:DA:327:G:H2'	24:DA:328:U:C6	2.52	0.45
24:DA:782:A:N3	26:DD:226:MET:HB3	2.32	0.45
24:DA:1278:A:H4'	36:D0:34:ILE:CG2	2.47	0.45
24:DA:1289:C:C2	24:DA:1290:C:C5	3.05	0.45
24:DA:1421:G:N2	24:DA:1495:A:N1	2.61	0.45
24:DA:2654:A:N9	24:DA:2656:U:O2	2.50	0.45
24:DA:2687:U:O2'	24:DA:2688:U:H5'	2.17	0.45
24:DA:2766:G:C2	24:DA:2767:C:C6	3.04	0.45
24:DA:2790:A:C3'	24:DA:2791:C:H5"	2.47	0.45
25:DB:37:C:H2'	25:DB:38:C:H5'	1.99	0.45
28:DF:196:LEU:O	28:DF:200:GLU:HG2	2.17	0.45
31:DK:117:GLU:O	31:DK:118:LYS:HB2	2.17	0.45
31:DK:127:VAL:HG13	31:DK:139:GLN:CG	2.47	0.45
32:DM:7:LYS:HD3	32:DM:9:VAL:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DM:22:THR:O	32:DM:60:ILE:HG22	2.16	0.45
32:DM:65:LYS:O	32:DM:66:LYS:C	2.60	0.45
34:DO:45:LEU:CD1	34:DO:45:LEU:N	2.79	0.45
35:DP:133:ARG:CG	35:DP:134:ARG:N	2.78	0.45
36:D0:31:HIS:C	36:D0:33:ARG:H	2.25	0.45
39:D1:15:LYS:O	39:D1:16:LYS:C	2.60	0.45
40:D2:67:GLY:O	40:D2:68:LYS:C	2.59	0.45
49:D4:68:ARG:O	49:D4:69:LYS:HB2	2.17	0.45
51:D6:7:ILE:O	51:D6:8:LYS:HG2	2.16	0.45
51:D6:45:LYS:HD3	51:D6:45:LYS:HA	1.80	0.45
53:D8:36:LYS:HB3	53:D8:40:GLU:HG2	1.99	0.45
53:D8:52:LYS:O	53:D8:52:LYS:CG	2.64	0.45
1:AA:889:A:O2'	1:AA:890:G:P	2.75	0.45
1:AA:1032(B):G:H2'	1:AA:1033:G:C4'	2.46	0.45
1:AA:1090:U:O2'	1:AA:1091:U:H5'	2.17	0.45
1:AA:1179:A:C5'	9:AL:102:LEU:HD22	2.47	0.45
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.76	0.45
1:AA:1294:G:C2'	1:AA:1295:G:H5'	2.47	0.45
2:AE:8:LYS:HG2	2:AE:8:LYS:O	2.17	0.45
2:AE:216:SER:C	2:AE:218:ALA:N	2.75	0.45
5:AH:56:GLN:HE21	5:AH:56:GLN:CA	2.08	0.45
8:AK:53:VAL:O	8:AK:54:ASP:HB2	2.17	0.45
8:AK:84:ARG:CG	8:AK:84:ARG:NH1	2.80	0.45
11:AN:24:SER:HB3	11:AN:27:ASN:O	2.17	0.45
13:AP:15:VAL:CA	13:AP:45:VAL:HG22	2.39	0.45
15:AR:18:PHE:CD1	15:AR:21:ASP:HB2	2.52	0.45
18:AU:31:LEU:O	18:AU:69:THR:HG21	2.16	0.45
19:AV:9:VAL:HG11	49:B4:63:TYR:CD1	2.50	0.45
19:AV:32:LYS:O	19:AV:33:THR:CB	2.66	0.45
20:AW:22:ARG:O	20:AW:26:ASN:ND2	2.50	0.45
20:AW:74:LYS:O	20:AW:76:ALA:N	2.50	0.45
22:AD:48:C:C5	22:AD:59:A:C8	3.05	0.45
24:BA:204:A:O2'	24:BA:205:G:O5'	2.32	0.45
24:BA:534:U:O2'	39:B1:49:HIS:CD2	2.70	0.45
24:BA:617:G:H5'	28:BF:40:GLN:NE2	2.31	0.45
24:BA:659:C:C6	24:BA:659:C:H5"	2.52	0.45
24:BA:713:G:H2'	24:BA:714:U:C6	2.49	0.45
24:BA:764:A:C6	24:BA:781:A:C2	3.05	0.45
24:BA:895:U:C2'	24:BA:896:A:OP1	2.64	0.45
24:BA:996:A:O3'	39:B1:92:ARG:NE	2.49	0.45
24:BA:1149:G:H2'	24:BA:1150:C:H6	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1202:C:N4	24:BA:1203:G:C6	2.85	0.45
24:BA:1666:G:OP1	33:BN:66:LYS:HD3	2.17	0.45
25:BB:16:G:N2	25:BB:17:C:C2	2.85	0.45
26:BD:45:ASN:HB2	26:BD:46:GLN:OE1	2.17	0.45
27:BE:4:ILE:HD12	27:BE:28:ALA:HB3	1.99	0.45
27:BE:64:LYS:C	27:BE:66:HIS:H	2.25	0.45
28:BF:27:GLU:C	28:BF:28:ILE:CG1	2.90	0.45
28:BF:84:VAL:O	28:BF:85:GLY:C	2.60	0.45
30:BH:127:GLU:CG	30:BH:128:PRO:HD2	2.44	0.45
34:BO:79:ARG:HG3	34:BO:109:GLY:O	2.16	0.45
34:BO:130:PHE:CZ	34:BO:144:GLU:HB2	2.52	0.45
35:BP:35:VAL:HG12	35:BP:130:LYS:O	2.17	0.45
35:BP:51:ARG:NH2	35:BP:64:ILE:HD11	2.32	0.45
35:BP:56:ARG:HH11	35:BP:56:ARG:CB	2.22	0.45
35:BP:113:GLN:O	35:BP:116:GLU:HB3	2.17	0.45
40:B2:62:LEU:HB3	40:B2:93:GLU:O	2.16	0.45
43:BU:9:LYS:O	43:BU:27:VAL:HG23	2.17	0.45
44:BV:4:ARG:HA	44:BV:58:VAL:HB	1.98	0.45
1:CA:116:A:H61	1:CA:313:A:H1'	1.82	0.45
1:CA:121:C:N4	1:CA:236:G:OP2	2.50	0.45
1:CA:366:C:O2'	1:CA:394:G:N2	2.50	0.45
1:CA:438:G:OP1	4:CG:125:HIS:CE1	2.70	0.45
1:CA:1235:U:O2'	1:CA:1305:G:O5'	2.35	0.45
1:CA:1312:G:OP2	49:D4:67:TYR:HE1	2.00	0.45
1:CA:1535:C:O2'	1:CA:1536:C:P	2.75	0.45
2:CE:30:ARG:O	2:CE:31:TYR:HD2	2.00	0.45
2:CE:98:LEU:O	2:CE:101:MET:HG3	2.17	0.45
3:CF:172:ARG:C	3:CF:173:VAL:HG23	2.42	0.45
5:CH:10:MET:HB2	5:CH:32:VAL:HG22	1.93	0.45
5:CH:55:VAL:O	5:CH:58:ALA:HB3	2.16	0.45
5:CH:150:ARG:HG2	5:CH:150:ARG:O	2.16	0.45
6:CI:29:ALA:O	6:CI:30:LEU:C	2.60	0.45
7:CJ:122:HIS:CD2	7:CJ:122:HIS:H	2.33	0.45
8:CK:122:ARG:O	8:CK:123:GLU:C	2.60	0.45
9:CL:13:ALA:HB2	9:CL:68:GLY:CA	2.47	0.45
10:CM:22:LYS:C	10:CM:22:LYS:CD	2.90	0.45
10:CM:51:ARG:HH11	10:CM:51:ARG:HG2	1.81	0.45
13:CP:56:LEU:HD13	13:CP:56:LEU:O	2.17	0.45
16:CS:58:TYR:C	16:CS:58:TYR:CD1	2.94	0.45
22:CC:44:A:H2'	22:CC:45:G:O4'	2.17	0.45
24:DA:25:U:H5"	41:DS:80:PRO:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:225:A:O2'	24:DA:257:A:H4'	2.17	0.45
24:DA:301:G:HO2'	24:DA:302:C:H6	1.63	0.45
24:DA:1001:A:H2'	24:DA:1002:G:O4'	2.16	0.45
24:DA:1006:C:H5'	32:DM:28:THR:HG23	1.99	0.45
24:DA:1338:G:O2'	24:DA:1339:G:H5'	2.17	0.45
24:DA:1444(A):A:H4'	24:DA:1460:A:O2'	2.17	0.45
24:DA:2062:A:N3	24:DA:2062:A:C2'	2.78	0.45
24:DA:2120:G:H2'	24:DA:2121:G:H8	1.82	0.45
24:DA:2348:U:O4	24:DA:2382:G:N2	2.49	0.45
24:DA:2432:A:C8	46:DZ:33:LYS:HE2	2.52	0.45
24:DA:2479:G:C6	24:DA:2480:C:C5	3.05	0.45
24:DA:2819:G:H2'	24:DA:2821:A:N7	2.31	0.45
26:DD:214:TRP:C	26:DD:216:GLY:H	2.25	0.45
26:DD:238:GLY:O	26:DD:239:ARG:O	2.35	0.45
28:DF:144:LYS:C	28:DF:146:ALA:N	2.75	0.45
28:DF:155:LEU:HA	28:DF:174:VAL:CG1	2.46	0.45
31:DK:83:ALA:O	31:DK:85:GLU:N	2.50	0.45
31:DK:124:GLY:N	31:DK:142:VAL:HG23	2.31	0.45
31:DK:135:GLU:HB2	31:DK:136:VAL:H	1.50	0.45
33:DN:104:ARG:NH2	38:DR:34:VAL:HG11	2.32	0.45
33:DN:107:ARG:O	33:DN:112:MET:HE1	2.17	0.45
34:DO:112:LEU:CD1	34:DO:114:ILE:HG23	2.47	0.45
35:DP:5:ARG:O	35:DP:6:ARG:O	2.35	0.45
35:DP:93:TYR:CD1	35:DP:93:TYR:N	2.85	0.45
36:D0:17:ARG:O	36:D0:20:LEU:HB3	2.17	0.45
41:DS:14:PRO:O	41:DS:16:LYS:N	2.50	0.45
43:DU:87:LYS:C	43:DU:88:LYS:NZ	2.75	0.45
44:DV:23:LYS:HD3	44:DV:23:LYS:N	2.30	0.45
44:DV:108:PRO:C	44:DV:110:GLY:N	2.75	0.45
44:DV:120:ILE:HD13	44:DV:169:GLU:CG	2.45	0.45
49:D4:51:ASP:O	49:D4:51:ASP:CG	2.60	0.45
1:AA:148:G:H4'	1:AA:1450:U:N3	2.32	0.44
1:AA:149:A:H2'	1:AA:150:C:C6	2.51	0.44
1:AA:220:G:C2'	1:AA:221:C:H5'	2.47	0.44
1:AA:428:G:H1'	1:AA:430:A:C8	2.52	0.44
1:AA:437:U:H2'	1:AA:438:G:O4'	2.17	0.44
1:AA:484:G:H4'	1:AA:485:G:O5'	2.17	0.44
1:AA:528:C:H41	12:AO:49:ASN:CG	2.25	0.44
1:AA:677:U:O5'	1:AA:677:U:H6	2.00	0.44
1:AA:1031:G:N2	1:AA:1032:A:N9	2.63	0.44
1:AA:1064:G:C8	1:AA:1066:C:C2	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1278:U:H5'	1:AA:1279:A:O4'	2.18	0.44
1:AA:1329:A:H5"	13:AP:25:ILE:O	2.18	0.44
1:AA:1450:U:C5	1:AA:1451:A:N3	2.85	0.44
2:AE:46:LYS:O	2:AE:47:THR:C	2.60	0.44
2:AE:68:ILE:HD12	2:AE:68:ILE:N	2.32	0.44
2:AE:90:MET:HB3	2:AE:91:PRO:CD	2.48	0.44
3:AF:6:HIS:HA	3:AF:7:PRO:HD2	1.78	0.44
3:AF:16:ARG:NH1	3:AF:16:ARG:HG2	2.31	0.44
5:AH:153:LYS:H	8:AK:64:LYS:HZ3	1.65	0.44
6:AI:62:TRP:C	6:AI:63:TYR:HD2	2.25	0.44
9:AL:10:ARG:O	9:AL:11:LYS:C	2.60	0.44
9:AL:18:PHE:O	9:AL:19:LEU:CG	2.65	0.44
10:AM:23:ILE:O	10:AM:23:ILE:HG22	2.17	0.44
10:AM:31:GLY:O	10:AM:78:ASN:ND2	2.49	0.44
10:AM:70:ARG:HH11	10:AM:70:ARG:HG3	1.82	0.44
14:AQ:29:ARG:HG2	14:AQ:40:CYS:CB	2.47	0.44
15:AR:18:PHE:CE1	15:AR:21:ASP:HB2	2.52	0.44
20:AW:67:ALA:O	20:AW:73:HIS:CE1	2.70	0.44
21:AX:12:LYS:HG3	21:AX:17:THR:O	2.16	0.44
23:A1:4:A:O2'	23:A1:5:A:O5'	2.30	0.44
24:BA:265:A:C2'	24:BA:266:G:OP2	2.65	0.44
24:BA:283:A:O2'	24:BA:284:U:P	2.74	0.44
24:BA:371:A:HO2'	24:BA:372:G:P	2.40	0.44
24:BA:431:U:O5'	24:BA:431:U:H6	2.00	0.44
24:BA:447:A:H4'	24:BA:448:U:C5'	2.48	0.44
24:BA:528:A:C2	24:BA:2043:C:H4'	2.52	0.44
24:BA:608:A:OP1	28:BF:100:THR:HG21	2.17	0.44
24:BA:1008:C:N4	24:BA:1136:G:N1	2.65	0.44
24:BA:1061:U:H1'	24:BA:1070:A:H1'	1.98	0.44
24:BA:1101:U:H2'	24:BA:1102:C:C6	2.48	0.44
24:BA:1198:U:C2	24:BA:1199:U:C5	3.04	0.44
24:BA:1442:G:H2'	24:BA:1443:G:O4'	2.16	0.44
24:BA:1688:U:O2	24:BA:1700:A:H5'	2.17	0.44
24:BA:2215:G:C2'	24:BA:2216:G:H5'	2.48	0.44
24:BA:2252:G:H2'	24:BA:2253:G:H8	1.81	0.44
24:BA:2334:G:H5"	24:BA:2335:A:OP2	2.16	0.44
24:BA:2712:U:O2'	24:BA:2712(A):A:H8	1.99	0.44
24:BA:2745:C:O3'	30:BH:142:GLY:HA3	2.17	0.44
24:BA:2759:G:C5'	24:BA:2759:G:C8	2.98	0.44
24:BA:2805:G:N2	24:BA:2807:G:C6	2.85	0.44
27:BE:34:VAL:HG11	27:BE:64:LYS:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:105:THR:HG21	27:BE:164:ARG:CZ	2.47	0.44
27:BE:149:ARG:HG3	27:BE:149:ARG:HH11	1.83	0.44
30:BH:126:PRO:HB2	30:BH:128:PRO:N	2.28	0.44
31:BK:47:LEU:O	31:BK:48:GLU:C	2.59	0.44
31:BK:76:THR:OG1	31:BK:77:LEU:N	2.51	0.44
31:BK:122:GLU:HB3	31:BK:126:TYR:OH	2.17	0.44
38:BR:45:PHE:CE2	38:BR:74:ARG:HB2	2.52	0.44
39:B1:103:PRO:HD2	39:B1:104:GLN:HE22	1.81	0.44
40:B2:98:GLU:O	40:B2:99:ILE:HB	2.17	0.44
41:BS:6:ILE:HA	41:BS:103:ILE:O	2.17	0.44
41:BS:51:LEU:HD13	41:BS:51:LEU:C	2.42	0.44
43:BU:5:MET:HE3	43:BU:5:MET:HB2	1.74	0.44
43:BU:45:VAL:HG12	43:BU:61:ILE:O	2.17	0.44
43:BU:93:GLY:O	43:BU:94:LYS:C	2.58	0.44
44:BV:149:SER:O	44:BV:150:LEU:C	2.59	0.44
45:B3:36:ILE:HD13	45:B3:36:ILE:C	2.40	0.44
47:BW:26:ARG:NH1	47:BW:26:ARG:CB	2.80	0.44
49:B4:37:SER:O	49:B4:39:CYS:N	2.50	0.44
1:CA:14:U:O2	1:CA:17:U:H5	2.00	0.44
1:CA:498:A:O2'	1:CA:500:G:O4'	2.35	0.44
1:CA:971:G:H2'	1:CA:1365:G:H4'	1.99	0.44
1:CA:1004:A:C5	1:CA:1025:U:H1'	2.51	0.44
1:CA:1004:A:H1'	1:CA:1036:G:N1	2.32	0.44
2:CE:189:ASP:OD2	2:CE:205:ASP:OD1	2.35	0.44
3:CF:140:ARG:HH11	3:CF:140:ARG:CG	2.30	0.44
4:CG:94:LEU:O	4:CG:98:GLU:N	2.50	0.44
5:CH:12:LEU:HD21	5:CH:14:ARG:HB3	1.98	0.44
6:CI:7:ASN:ND2	18:CU:34:TYR:HE1	2.16	0.44
6:CI:23:LYS:HG2	6:CI:27:GLN:OE1	2.18	0.44
7:CJ:111:ARG:HD2	7:CJ:123:GLU:HB2	1.99	0.44
9:CL:4:TYR:CZ	9:CL:88:TYR:HB2	2.51	0.44
10:CM:6:ILE:O	10:CM:71:LEU:HD12	2.18	0.44
10:CM:63:PHE:HB3	14:CQ:57:ARG:O	2.17	0.44
12:CO:117:ARG:NH2	12:CO:124:LYS:HD3	2.32	0.44
13:CP:8:GLU:C	13:CP:9:ILE:CG2	2.90	0.44
13:CP:53:VAL:HG12	13:CP:57:ARG:HH12	1.82	0.44
13:CP:108:ARG:O	13:CP:111:LYS:N	2.48	0.44
13:CP:110:ARG:HH11	13:CP:110:ARG:HG3	1.82	0.44
15:CR:74:ASP:C	15:CR:76:GLU:H	2.24	0.44
16:CS:47:ASP:C	16:CS:49:LEU:N	2.75	0.44
19:CV:45:VAL:O	19:CV:62:ILE:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CW:56:MET:HG3	20:CW:88:VAL:HG21	1.98	0.44
24:DA:172:C:H2'	24:DA:173:G:C8	2.52	0.44
24:DA:213:A:O2'	24:DA:214:G:H5'	2.18	0.44
24:DA:755:C:H2'	24:DA:756:C:H6	1.81	0.44
24:DA:1049:C:H6	24:DA:1049:C:C5'	2.22	0.44
24:DA:1086:A:H2'	24:DA:1086:A:N3	2.32	0.44
24:DA:1141:U:C5	32:DM:64:GLY:HA3	2.53	0.44
24:DA:1516:U:H2'	24:DA:1517:G:H8	1.83	0.44
24:DA:1926:U:O2	24:DA:1928:A:C8	2.71	0.44
24:DA:1932:A:C2	24:DA:1969:A:C5	3.04	0.44
24:DA:1968:G:C2'	24:DA:1969:A:H5"	2.47	0.44
24:DA:2445:G:OP1	28:DF:74:ARG:NH2	2.50	0.44
24:DA:2481:G:HO2'	24:DA:2482:G:P	2.39	0.44
24:DA:2612:C:C4	24:DA:2613:U:C5	3.05	0.44
24:DA:2636:U:OP2	27:DE:79:ARG:CZ	2.65	0.44
24:DA:2653:U:C2	24:DA:2654:A:N7	2.85	0.44
24:DA:2688:U:O2	24:DA:2688:U:H3'	2.17	0.44
24:DA:2724:C:O2	24:DA:2724:C:H2'	2.16	0.44
26:DD:166:GLN:HA	26:DD:166:GLN:NE2	2.32	0.44
27:DE:21:VAL:HG23	27:DE:22:PRO:CD	2.46	0.44
28:DF:198:ALA:C	28:DF:200:GLU:H	2.25	0.44
29:DG:14:GLU:HB3	29:DG:15:VAL:H	1.56	0.44
29:DG:19:LEU:HA	29:DG:22:ARG:HB2	1.99	0.44
29:DG:129:GLY:HA2	29:DG:169:ALA:HB2	1.99	0.44
31:DK:39:ALA:C	31:DK:40:THR:O	2.60	0.44
34:DO:65:ARG:O	34:DO:66:GLY:C	2.60	0.44
34:DO:75:ILE:HG12	34:DO:77:ARG:HH12	1.82	0.44
36:D0:12:ARG:HG3	36:D0:12:ARG:NH1	2.32	0.44
36:D0:84:ALA:O	36:D0:85:PRO:C	2.59	0.44
37:DQ:78:LEU:HD21	37:DQ:108:GLY:CA	2.47	0.44
40:D2:69:LYS:HG3	40:D2:87:HIS:O	2.17	0.44
44:DV:151:HIS:O	44:DV:152:ALA:C	2.60	0.44
1:AA:421:U:H5"	1:AA:422:C:OP2	2.17	0.44
1:AA:426:G:H2'	1:AA:427:U:H6	1.82	0.44
1:AA:532:A:N1	3:AF:156:ARG:NH2	2.65	0.44
1:AA:664:G:H5'	18:AU:64:ARG:HH21	1.81	0.44
1:AA:934:C:O2'	1:AA:935:A:P	2.75	0.44
1:AA:1070:U:H5'	5:AH:18:ARG:HH22	1.83	0.44
1:AA:1244:C:P	21:AX:8:THR:HG23	2.57	0.44
1:AA:1454:G:O2'	1:AA:1455:G:H5'	2.17	0.44
3:AF:138:VAL:O	3:AF:142:MET:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:181:ASN:HD21	3:AF:204:LEU:HB3	1.82	0.44
4:AG:68:TYR:CD1	4:AG:68:TYR:N	2.86	0.44
4:AG:158:ILE:CG2	4:AG:181:MET:HE2	2.47	0.44
5:AH:96:PRO:HA	5:AH:117:ASP:OD2	2.18	0.44
8:AK:6:ILE:CG2	8:AK:85:ARG:NH1	2.78	0.44
8:AK:40:ALA:C	8:AK:42:GLU:H	2.26	0.44
13:AP:3:ARG:HH11	29:BG:113:ARG:HE	1.65	0.44
13:AP:44:ARG:H	13:AP:44:ARG:HG2	1.61	0.44
14:AQ:45:ARG:HH11	14:AQ:45:ARG:HG3	1.82	0.44
15:AR:38:ARG:HH11	15:AR:38:ARG:CG	2.29	0.44
16:AS:18:ARG:HD3	16:AS:35:LYS:HD2	2.00	0.44
20:AW:60:GLU:HG3	20:AW:81:LYS:HD2	1.98	0.44
20:AW:94:ALA:O	20:AW:95:ALA:HB2	2.17	0.44
22:AC:18:G:O2'	22:AC:60:U:C4	2.70	0.44
22:AD:49:G:C2'	22:AD:50:U:H5'	2.47	0.44
24:BA:241:A:H5'	24:BA:243:U:C1'	2.47	0.44
24:BA:270:A:C2'	24:BA:270(A):A:H5'	2.47	0.44
24:BA:649:G:H2'	24:BA:650:C:C6	2.52	0.44
24:BA:956:G:OP1	35:BP:86:GLY:N	2.49	0.44
24:BA:1033:U:O2	24:BA:1033:U:C2'	2.65	0.44
24:BA:1112:G:OP1	30:BH:3:ARG:NH2	2.50	0.44
24:BA:1465:G:H21	24:BA:1466:G:H1'	1.82	0.44
24:BA:1638:C:H4'	24:BA:2710:C:O2	2.17	0.44
24:BA:1802:A:N1	24:BA:1822:G:H1'	2.31	0.44
24:BA:1879:C:C4	24:BA:1880:C:C5	3.04	0.44
24:BA:2017:U:H4'	50:B5:8:LYS:O	2.17	0.44
24:BA:2391:G:HO2'	24:BA:2392:A:P	2.36	0.44
24:BA:2517:C:C2	24:BA:2542:A:N6	2.85	0.44
24:BA:2517:C:C4	24:BA:2542:A:C6	3.05	0.44
24:BA:2591:C:H2'	24:BA:2592:G:C8	2.52	0.44
24:BA:2607:G:H2'	24:BA:2608:G:O4'	2.16	0.44
24:BA:2785:C:H5'	27:BE:41:LYS:CE	2.48	0.44
25:BB:14:U:O2'	25:BB:107:U:H1'	2.17	0.44
25:BB:38:C:H3'	25:BB:38:C:C6	2.52	0.44
25:BB:82:G:O2'	25:BB:83:G:H5'	2.17	0.44
26:BD:5:LYS:HG2	26:BD:17:THR:HG22	1.99	0.44
26:BD:45:ASN:OD1	26:BD:45:ASN:C	2.58	0.44
26:BD:121:PRO:HB3	26:BD:135:PHE:HE1	1.82	0.44
26:BD:255:LYS:H	26:BD:255:LYS:HE2	1.75	0.44
27:BE:37:ARG:HD2	27:BE:80:GLU:CD	2.42	0.44
27:BE:147:PRO:HG2	27:BE:149:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:20:LEU:O	28:BF:21:ALA:O	2.34	0.44
28:BF:192:LEU:HD21	28:BF:194:MET:HG2	1.98	0.44
32:BM:12:ARG:O	32:BM:50:ASP:HB2	2.17	0.44
33:BN:71:ARG:HE	33:BN:105:GLU:CD	2.24	0.44
34:BO:14:LYS:O	34:BO:14:LYS:HD3	2.16	0.44
35:BP:17:LEU:HD21	35:BP:41:TRP:HE1	1.83	0.44
38:BR:19:LEU:HA	38:BR:20:PRO:HD3	1.80	0.44
39:B1:17:ILE:O	39:B1:20:LEU:HB2	2.17	0.44
39:B1:91:ASP:OD2	39:B1:96:ALA:HA	2.17	0.44
41:BS:15:ARG:CZ	50:B5:20:ARG:NH2	2.80	0.44
42:BT:64:LYS:NZ	42:BT:73:ARG:NH2	2.66	0.44
43:BU:63:LYS:HA	43:BU:63:LYS:HZ1	1.83	0.44
43:BU:77:PRO:O	43:BU:78:ALA:CB	2.65	0.44
44:BV:52:SER:C	44:BV:54:HIS:N	2.75	0.44
44:BV:150:LEU:HD21	44:BV:171:ILE:HG21	2.00	0.44
47:BW:13:ALA:O	47:BW:16:LEU:HG	2.17	0.44
49:B4:2:LYS:HD2	49:B4:2:LYS:O	2.17	0.44
1:CA:246:A:O2'	1:CA:247:G:O5'	2.35	0.44
1:CA:408:A:OP2	4:CG:115:ARG:NH2	2.50	0.44
1:CA:687:A:H4'	1:CA:688:G:O5'	2.18	0.44
1:CA:934:C:N4	1:CA:1344:C:N3	2.65	0.44
1:CA:1226:C:O3'	13:CP:111:LYS:HE3	2.16	0.44
1:CA:1240:U:O2'	7:CJ:38:LEU:HD23	2.17	0.44
1:CA:1535:C:H2'	1:CA:1535:C:O2	2.17	0.44
2:CE:128:GLU:O	2:CE:129:GLU:C	2.61	0.44
2:CE:164:VAL:HB	2:CE:186:ALA:HB1	1.96	0.44
2:CE:170:GLU:C	2:CE:172:ILE:N	2.74	0.44
3:CF:37:GLN:NE2	14:CQ:47:LEU:HD22	2.33	0.44
3:CF:43:LEU:HD11	3:CF:66:VAL:HG11	1.98	0.44
3:CF:108:ASN:HB3	3:CF:111:LEU:HD12	1.99	0.44
5:CH:52:PRO:HB2	5:CH:53:LEU:HD12	1.97	0.44
5:CH:80:ILE:HG13	5:CH:82:VAL:HG23	1.99	0.44
7:CJ:16:LEU:HD13	9:CL:45:ALA:HB2	1.99	0.44
7:CJ:26:PHE:HZ	7:CJ:120:ILE:HG23	1.82	0.44
8:CK:110:ALA:HB3	8:CK:121:ASP:HB3	1.98	0.44
10:CM:54:PHE:CE2	10:CM:55:LYS:HD2	2.52	0.44
10:CM:54:PHE:CD2	10:CM:55:LYS:HD2	2.53	0.44
10:CM:62:HIS:N	10:CM:62:HIS:CD2	2.85	0.44
16:CS:50:LYS:HD3	16:CS:50:LYS:O	2.17	0.44
24:DA:460:A:H2'	24:DA:461:C:O4'	2.17	0.44
24:DA:479:A:O2'	24:DA:481:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:753:C:H6	24:DA:753:C:O5'	1.99	0.44
24:DA:781:A:H2	24:DA:1776:G:N3	2.14	0.44
24:DA:1024:G:C6	24:DA:1025:G:C6	3.06	0.44
24:DA:1086:A:H4'	24:DA:1103:A:H62	1.82	0.44
24:DA:1482:U:H5'	24:DA:1483:G:P	2.58	0.44
24:DA:1511:A:O2'	24:DA:1512:G:H5'	2.17	0.44
24:DA:1833:U:O2	24:DA:1969:A:C2	2.68	0.44
24:DA:2024:G:H2'	24:DA:2025:C:C6	2.53	0.44
26:DD:52:ARG:HB2	26:DD:53:PHE:CD2	2.53	0.44
26:DD:80:ALA:O	26:DD:113:VAL:HG13	2.16	0.44
26:DD:177:LEU:O	26:DD:179:SER:N	2.51	0.44
26:DD:226:MET:H	26:DD:226:MET:HG2	1.53	0.44
29:DG:110:ALA:C	29:DG:112:PRO:HD2	2.42	0.44
30:DH:6:ARG:C	30:DH:8:PRO:CD	2.90	0.44
31:DK:79:ILE:HG22	31:DK:81:VAL:HG22	1.99	0.44
31:DK:90:GLY:O	31:DK:121:LYS:HE2	2.16	0.44
32:DM:99:LEU:O	32:DM:100:GLU:C	2.60	0.44
33:DN:19:ILE:HD13	33:DN:19:ILE:H	1.83	0.44
34:DO:75:ILE:HG12	34:DO:77:ARG:NH1	2.32	0.44
38:DR:80:SER:HA	38:DR:81:PRO:HD3	1.73	0.44
39:D1:57:PHE:O	39:D1:59:ARG:N	2.50	0.44
39:D1:91:ASP:C	39:D1:93:LYS:N	2.74	0.44
40:D2:61:VAL:O	40:D2:61:VAL:HG22	2.16	0.44
41:DS:31:GLU:O	41:DS:32:ALA:C	2.60	0.44
42:DT:53:LYS:HZ2	42:DT:55:ASN:HD21	1.65	0.44
44:DV:93:ASP:O	44:DV:94:GLU:CB	2.65	0.44
44:DV:139:VAL:O	44:DV:139:VAL:CG1	2.65	0.44
45:D3:7:LEU:CD2	45:D3:11:ARG:NH1	2.80	0.44
49:D4:35:VAL:C	49:D4:37:SER:H	2.19	0.44
1:AA:119:A:O2'	1:AA:120:A:OP2	2.23	0.44
1:AA:161:A:H2'	1:AA:162:A:C8	2.53	0.44
1:AA:535:A:H4'	1:AA:536:C:OP1	2.16	0.44
1:AA:542:G:H5'	4:AG:41:GLY:HA3	2.00	0.44
1:AA:673:G:O3'	6:AI:87:ARG:NH2	2.50	0.44
1:AA:674:G:O2'	1:AA:675:A:H5'	2.17	0.44
1:AA:922:G:N3	1:AA:1398:A:C2	2.82	0.44
1:AA:974:A:O2'	1:AA:975:A:OP2	2.33	0.44
1:AA:975:A:H2	14:AQ:34:TYR:OH	1.98	0.44
1:AA:1010:G:O2'	1:AA:1011:G:H5'	2.16	0.44
1:AA:1150:U:H4'	1:AA:1280:A:H2	1.83	0.44
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1285:A:HO2'	1:AA:1286:A:H5"	1.82	0.44
1:AA:1347:G:N7	9:AL:107:ARG:HB3	2.31	0.44
1:AA:1442:G:N7	1:AA:1446:A:C2	2.86	0.44
1:AA:1502:A:H2	1:AA:1505:G:H22	1.62	0.44
2:AE:11:LEU:H	2:AE:11:LEU:CD1	2.19	0.44
3:AF:131:ARG:O	3:AF:131:ARG:CG	2.65	0.44
13:AP:62:ASN:O	13:AP:63:THR:C	2.61	0.44
14:AQ:6:LEU:C	14:AQ:8:GLU:N	2.69	0.44
15:AR:88:ARG:HD3	15:AR:88:ARG:HA	1.80	0.44
16:AS:14:ASN:CG	16:AS:14:ASN:O	2.59	0.44
16:AS:71:ARG:O	16:AS:72:ARG:C	2.60	0.44
22:AC:19:G:H1	29:BG:83:ARG:NH2	2.15	0.44
22:AD:57:A:O5'	22:AD:58:A:P	2.76	0.44
24:BA:322:A:H5'	24:BA:323:G:OP2	2.18	0.44
24:BA:996:A:H2'	24:BA:997:G:C8	2.52	0.44
24:BA:1280:G:H2'	24:BA:1281:G:C5'	2.42	0.44
24:BA:1799:G:N2	24:BA:1818:U:O2'	2.51	0.44
24:BA:2163:C:H2'	24:BA:2164:C:O4'	2.17	0.44
24:BA:2331:G:H4'	45:B3:43:THR:H	1.82	0.44
24:BA:2629:A:HO2'	24:BA:2630:G:C5'	2.30	0.44
24:BA:2882:A:OP1	36:B0:96:ARG:NE	2.51	0.44
27:BE:197:ILE:HD11	27:BE:199:ARG:NH1	2.31	0.44
28:BF:65:TRP:CZ3	28:BF:73:ALA:O	2.71	0.44
29:BG:36:LYS:HE2	29:BG:95:ARG:HH22	1.78	0.44
30:BH:14:GLY:O	30:BH:15:VAL:C	2.61	0.44
35:BP:110:THR:O	35:BP:111:GLU:C	2.58	0.44
37:BQ:66:ALA:C	37:BQ:69:VAL:HG12	2.37	0.44
37:BQ:86:ALA:O	37:BQ:87:PHE:CB	2.65	0.44
39:B1:50:ARG:NH1	40:B2:72:VAL:HG21	2.21	0.44
41:BS:10:VAL:O	41:BS:12:ILE:HG22	2.17	0.44
41:BS:14:PRO:CB	41:BS:18:ARG:HH21	2.30	0.44
41:BS:80:PRO:CD	41:BS:100:THR:HG21	2.47	0.44
42:BT:50:LYS:CB	42:BT:84:ALA:HB2	2.45	0.44
44:BV:94:GLU:HB3	44:BV:95:PRO:CD	2.39	0.44
44:BV:137:ILE:HD13	44:BV:157:LEU:CD2	2.45	0.44
46:BZ:5:CYS:HB3	46:BZ:9:GLY:H	1.83	0.44
51:B6:21:TYR:O	51:B6:22:ALA:CB	2.65	0.44
51:B6:48:VAL:HG13	51:B6:49:HIS:N	2.32	0.44
52:B7:35:ARG:O	52:B7:38:GLY:N	2.48	0.44
1:CA:1014:A:C4'	19:CV:14:HIS:NE2	2.73	0.44
1:CA:1237:C:O4'	1:CA:1334:G:N2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1343:G:H2'	1:CA:1344:C:H6	1.75	0.44
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.17	0.44
1:CA:1464:G:H2'	1:CA:1465:C:H6	1.82	0.44
2:CE:30:ARG:HH21	2:CE:194:PRO:HG2	1.82	0.44
4:CG:49:ARG:O	4:CG:50:ARG:C	2.60	0.44
4:CG:76:ARG:O	4:CG:79:PHE:HB3	2.17	0.44
4:CG:89:THR:O	4:CG:90:GLY:C	2.60	0.44
4:CG:157:LEU:O	4:CG:161:ASN:ND2	2.50	0.44
6:CI:22:GLU:OE1	6:CI:82:ARG:NH2	2.46	0.44
7:CJ:45:ASP:O	7:CJ:49:ILE:HG12	2.17	0.44
9:CL:5:TYR:CD2	9:CL:6:GLY:N	2.86	0.44
9:CL:7:THR:O	9:CL:83:ARG:CD	2.66	0.44
12:CO:120:TYR:N	12:CO:120:TYR:CD1	2.85	0.44
13:CP:16:ASP:O	13:CP:19:LEU:HD23	2.17	0.44
15:CR:29:VAL:HB	15:CR:81:LEU:HD21	1.99	0.44
16:CS:68:ASP:C	16:CS:70:ALA:N	2.75	0.44
16:CS:72:ARG:CD	16:CS:73:LEU:HD23	2.48	0.44
19:CV:3:ARG:CG	19:CV:4:SER:H	2.21	0.44
20:CW:36:LEU:C	20:CW:38:LYS:N	2.71	0.44
20:CW:89:ARG:HH12	20:CW:106:ALA:HB1	1.82	0.44
24:DA:94:G:H2'	24:DA:95:G:O4'	2.18	0.44
24:DA:292:C:O2'	24:DA:293:U:H5'	2.17	0.44
24:DA:385:C:C2'	24:DA:386:G:OP2	2.66	0.44
24:DA:614:U:C4	28:DF:175:THR:HG22	2.52	0.44
24:DA:637:A:OP1	34:DO:133:SER:CB	2.65	0.44
24:DA:804:A:H2'	24:DA:806:C:C4	2.52	0.44
24:DA:1079:C:N4	24:DA:1080:A:C6	2.85	0.44
24:DA:1432:C:H2'	24:DA:1433:U:O4'	2.16	0.44
24:DA:1474:C:H2'	24:DA:1475:G:C5'	2.48	0.44
24:DA:1998:G:H2'	24:DA:1999:C:H6	1.83	0.44
24:DA:2044:C:H6	24:DA:2044:C:C5'	2.23	0.44
24:DA:2331:G:O2'	24:DA:2336:A:N1	2.43	0.44
24:DA:2469:A:O2'	35:DP:56:ARG:CG	2.64	0.44
24:DA:2585:U:O2'	24:DA:2586:C:H5'	2.17	0.44
25:DB:66:A:N1	25:DB:107:U:N3	2.65	0.44
27:DE:121:ASN:O	27:DE:122:PHE:C	2.57	0.44
28:DF:111:ALA:O	28:DF:112:MET:C	2.59	0.44
32:DM:63:THR:HG23	32:DM:66:LYS:HE3	2.00	0.44
33:DN:112:MET:O	33:DN:113:LYS:C	2.60	0.44
34:DO:45:LEU:N	34:DO:45:LEU:HD12	2.32	0.44
37:DQ:3:ARG:O	37:DQ:4:LEU:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DR:36:GLU:CG	38:DR:41:ARG:HD3	2.46	0.44
38:DR:107:ASP:HB2	38:DR:108:ARG:H	1.48	0.44
41:DS:28:SER:O	41:DS:30:GLU:N	2.51	0.44
44:DV:108:PRO:CB	44:DV:112:ARG:HB2	2.39	0.44
45:D3:78:TYR:N	45:D3:78:TYR:CD1	2.86	0.44
46:DZ:48:LYS:HA	46:DZ:60:PHE:O	2.17	0.44
47:DW:41:ILE:HD12	47:DW:41:ILE:O	2.16	0.44
49:D4:15:ILE:CG2	49:D4:20:ASN:ND2	2.81	0.44
49:D4:33:VAL:CG1	49:D4:34:GLU:N	2.80	0.44
49:D4:50:VAL:O	49:D4:50:VAL:CG1	2.63	0.44
50:D5:56:LYS:O	50:D5:58:LEU:N	2.50	0.44
51:D6:7:ILE:HG23	51:D6:8:LYS:N	2.32	0.44
1:AA:134:A:H1'	1:AA:325:A:C5	2.52	0.44
1:AA:1004:A:HO2'	1:AA:1005:A:P	2.33	0.44
1:AA:1020:U:H2'	1:AA:1021:G:C5'	2.48	0.44
1:AA:1101:A:C4'	1:AA:1102:A:O5'	2.45	0.44
1:AA:1301:U:C4	1:AA:1303:C:C6	3.04	0.44
1:AA:1356:G:O2'	1:AA:1357:A:H5'	2.18	0.44
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.83	0.44
2:AE:16:HIS:HB2	2:AE:17:PHE:CE2	2.52	0.44
2:AE:44:LEU:HD12	2:AE:44:LEU:H	1.83	0.44
3:AF:195:VAL:C	3:AF:196:LEU:HD23	2.42	0.44
5:AH:66:MET:O	5:AH:67:VAL:HB	2.17	0.44
6:AI:7:ASN:HD22	6:AI:7:ASN:N	2.13	0.44
6:AI:47:ARG:HA	6:AI:57:GLN:HB3	2.00	0.44
8:AK:36:LEU:HA	8:AK:39:LEU:HB3	1.98	0.44
10:AM:94:VAL:O	10:AM:96:ILE:HD13	2.18	0.44
12:AO:71:PRO:O	12:AO:102:ARG:HD2	2.18	0.44
13:AP:3:ARG:HB3	49:B4:34:GLU:HG3	1.99	0.44
16:AS:27:LYS:HD3	16:AS:30:GLY:HA2	2.00	0.44
21:AX:8:THR:HG22	21:AX:10:ARG:H	1.82	0.44
22:AC:58:A:H1'	22:AC:60:U:C5	2.53	0.44
22:AD:49:G:O5'	22:AD:49:G:C8	2.70	0.44
24:BA:9:U:C4	24:BA:2629:A:N1	2.86	0.44
24:BA:227:A:O2'	24:BA:228:A:H5"	2.17	0.44
24:BA:270(I):G:H2'	24:BA:270(J):G:H8	1.82	0.44
24:BA:620:G:H5'	24:BA:621:A:OP1	2.18	0.44
24:BA:639:U:C2	24:BA:640:C:C5	3.06	0.44
24:BA:691:C:O2'	24:BA:692:C:H5'	2.17	0.44
24:BA:946:G:O2'	24:BA:947:G:C5'	2.62	0.44
24:BA:1045:A:N3	24:BA:1047:G:N3	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1342:A:N1	24:BA:1397:U:C6	2.86	0.44
24:BA:1431:U:O2'	24:BA:1432:C:H5'	2.17	0.44
24:BA:1947:C:C3'	24:BA:1948:G:C5'	2.93	0.44
24:BA:2319:G:H5'	24:BA:2320:A:OP1	2.17	0.44
24:BA:2415:G:C4	24:BA:2416:C:C5	3.05	0.44
24:BA:2458:G:O2'	24:BA:2460:U:O4	2.32	0.44
24:BA:2562:U:C1'	33:BN:23:ARG:HH12	2.20	0.44
24:BA:2840:C:H5"	36:B0:53:HIS:CD2	2.53	0.44
25:BB:15:A:C3'	25:BB:16:G:C5'	2.94	0.44
26:BD:69:ARG:HD2	26:BD:119:ALA:HB2	2.00	0.44
27:BE:35:GLN:HG3	27:BE:64:LYS:HZ1	1.81	0.44
28:BF:4:VAL:HG11	28:BF:17:ARG:HE	1.83	0.44
29:BG:143:GLU:HA	49:B4:31:ILE:CD1	2.47	0.44
29:BG:171:ALA:O	29:BG:175:LEU:HG	2.18	0.44
35:BP:21:THR:O	35:BP:21:THR:HG23	2.17	0.44
35:BP:35:VAL:CG1	35:BP:130:LYS:HB3	2.47	0.44
35:BP:42:ILE:HD13	35:BP:97:VAL:HG23	1.99	0.44
35:BP:55:VAL:HG13	35:BP:56:ARG:N	2.32	0.44
36:B0:52:ILE:O	36:B0:55:ALA:N	2.50	0.44
37:BQ:106:ARG:NH1	37:BQ:106:ARG:O	2.51	0.44
39:B1:108:GLU:O	39:B1:111:GLU:N	2.51	0.44
42:BT:89:ILE:HG22	42:BT:91:ALA:HB3	1.98	0.44
47:BW:24:LEU:O	47:BW:28:LYS:HG2	2.17	0.44
51:B6:38:LYS:HA	51:B6:48:VAL:O	2.18	0.44
53:B8:23:VAL:CG1	53:B8:48:PHE:O	2.34	0.44
1:CA:422:C:O4'	1:CA:422:C:OP2	2.35	0.44
1:CA:443:C:O2'	1:CA:444:C:H5'	2.18	0.44
1:CA:587:G:N2	1:CA:754:C:OP2	2.50	0.44
1:CA:777:A:H2'	1:CA:778:G:C8	2.52	0.44
1:CA:807:A:H2'	1:CA:808:C:C6	2.52	0.44
1:CA:833:U:C2	1:CA:834:C:C5	3.06	0.44
1:CA:913:A:HO2'	1:CA:914:A:P	2.37	0.44
1:CA:1151:A:H1'	10:CM:39:PRO:CB	2.42	0.44
1:CA:1238:A:N7	1:CA:1301:U:O4	2.50	0.44
1:CA:1336:C:C2'	1:CA:1337:G:OP2	2.65	0.44
2:CE:188:ALA:CB	2:CE:200:ILE:HG23	2.47	0.44
4:CG:199:ASN:C	4:CG:201:GLN:H	2.25	0.44
4:CG:206:PHE:CD2	4:CG:207:TYR:CE1	3.06	0.44
7:CJ:38:LEU:O	7:CJ:42:ILE:HG13	2.17	0.44
7:CJ:69:VAL:O	7:CJ:69:VAL:CG1	2.62	0.44
8:CK:97:VAL:CG1	8:CK:98:LYS:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CM:33:GLN:HB2	10:CM:75:ILE:HD11	1.99	0.44
10:CM:61:GLU:CG	14:CQ:58:LYS:HE2	2.47	0.44
11:CN:13:GLN:HG3	11:CN:75:TYR:CA	2.48	0.44
15:CR:25:THR:HG22	15:CR:70:LEU:HD22	1.99	0.44
16:CS:72:ARG:HD3	16:CS:72:ARG:O	2.18	0.44
19:CV:13:ASP:O	19:CV:14:HIS:C	2.60	0.44
24:DA:226:G:H1'	24:DA:228:A:N6	2.31	0.44
24:DA:481:G:C2'	24:DA:482:A:OP2	2.65	0.44
24:DA:1170:G:H5'	24:DA:1170:G:C8	2.42	0.44
24:DA:1543:A:H1'	24:DA:1545:A:C4'	2.46	0.44
24:DA:1608:A:HO2'	24:DA:1610:A:P	2.40	0.44
24:DA:1655:A:O3'	27:DE:115:GLY:HA3	2.17	0.44
24:DA:1818:U:H2'	26:DD:154:LYS:O	2.17	0.44
24:DA:1829:A:N6	24:DA:1976:U:O2	2.50	0.44
24:DA:1952:A:C6	33:DN:22:ILE:HD12	2.53	0.44
24:DA:2026:C:C2'	24:DA:2027:G:O5'	2.65	0.44
24:DA:2050:C:H2'	24:DA:2051:A:O4'	2.18	0.44
24:DA:2367:G:H2'	24:DA:2368:C:H6	1.82	0.44
24:DA:2420:C:H41	53:D8:30:ARG:HD2	1.81	0.44
27:DE:1:MET:HE2	27:DE:1:MET:H1	1.82	0.44
27:DE:50:GLY:CA	27:DE:74:PRO:HG3	2.46	0.44
28:DF:65:TRP:HZ3	28:DF:73:ALA:C	2.26	0.44
29:DG:63:ILE:HG12	29:DG:64:THR:N	2.33	0.44
30:DH:153:LYS:HG3	30:DH:162:ILE:H	1.78	0.44
31:DK:1:MET:HG3	31:DK:23:PRO:CB	2.47	0.44
32:DM:112:LEU:O	32:DM:116:LEU:HG	2.17	0.44
32:DM:131:GLN:CD	32:DM:132:ALA:N	2.74	0.44
37:DQ:83:LYS:CE	37:DQ:109:GLY:HA2	2.47	0.44
41:DS:1:MET:CE	41:DS:2:GLU:H	2.31	0.44
44:DV:27:VAL:CG1	44:DV:87:ASP:HB3	2.46	0.44
44:DV:117:LEU:O	44:DV:118:GLN:C	2.60	0.44
53:D8:47:LYS:HD2	53:D8:48:PHE:N	2.33	0.44
1:AA:5:U:O2'	1:AA:6:G:P	2.76	0.44
1:AA:186(D):C:H2'	1:AA:186(E):C:C6	2.53	0.44
1:AA:243:A:N6	1:AA:281:G:O2'	2.50	0.44
1:AA:256:U:H2'	1:AA:257:G:C8	2.53	0.44
1:AA:683:G:N2	1:AA:708:C:C2	2.86	0.44
1:AA:946:A:N6	1:AA:1236:A:N6	2.65	0.44
1:AA:1071:C:C2	1:AA:1072:G:N7	2.85	0.44
1:AA:1206:G:C6	1:AA:1207:G:C5	3.06	0.44
1:AA:1244:C:OP2	21:AX:8:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1502:A:H4'	1:AA:1503:A:OP2	2.17	0.44
1:AA:1524:C:OP1	11:AN:120:ARG:NH1	2.49	0.44
3:AF:112:SER:HB3	3:AF:115:LEU:HD12	1.99	0.44
3:AF:113:ALA:O	3:AF:115:LEU:N	2.50	0.44
4:AG:35:ARG:C	4:AG:37:PRO:HD3	2.43	0.44
6:AI:3:ARG:HH11	6:AI:3:ARG:HG2	1.81	0.44
6:AI:61:LEU:HD12	6:AI:61:LEU:N	2.32	0.44
6:AI:61:LEU:HD23	6:AI:63:TYR:OH	2.17	0.44
7:AJ:57:GLU:O	7:AJ:58:PRO:C	2.59	0.44
7:AJ:127:ALA:C	7:AJ:129:GLU:N	2.74	0.44
10:AM:39:PRO:HA	10:AM:70:ARG:NH1	2.33	0.44
11:AN:21:ILE:HD13	11:AN:94:ALA:CB	2.47	0.44
11:AN:117:ASN:HD22	11:AN:117:ASN:N	2.14	0.44
14:AQ:35:ARG:HG3	14:AQ:36:PHE:N	2.32	0.44
22:AD:68:C:H3'	22:AD:69:C:H5"	1.96	0.44
24:BA:88:G:N3	24:BA:88:G:H2'	2.33	0.44
24:BA:120:U:O2	24:BA:120:U:H2'	2.17	0.44
24:BA:215:G:H5'	24:BA:216:A:OP1	2.17	0.44
24:BA:310:A:O2'	24:BA:311:A:O5'	2.30	0.44
24:BA:332:A:O2'	24:BA:333:G:P	2.76	0.44
24:BA:644:A:O3'	24:BA:645:C:H6	2.01	0.44
24:BA:864:G:H21	24:BA:866:A:N6	2.13	0.44
24:BA:1131:G:O2'	24:BA:1132:A:P	2.76	0.44
24:BA:1225:C:O3'	40:B2:85:LYS:CB	2.57	0.44
24:BA:1365:A:OP2	46:BZ:3:LYS:HB3	2.18	0.44
24:BA:1544:C:O2	24:BA:1544:C:C2'	2.65	0.44
24:BA:1731:G:N2	24:BA:1732:A:C8	2.85	0.44
24:BA:1790:C:H5"	24:BA:1791:A:OP1	2.17	0.44
24:BA:1957:C:H2'	24:BA:1958:C:C6	2.53	0.44
24:BA:2019:A:C6	24:BA:2020:A:N7	2.85	0.44
24:BA:2124:G:C2	24:BA:2125:G:C1'	3.01	0.44
24:BA:2563:U:H4'	33:BN:28:SER:HA	2.00	0.44
24:BA:2859:G:C8	24:BA:2859:G:C3'	3.00	0.44
26:BD:200:ASP:C	26:BD:202:LYS:N	2.75	0.44
26:BD:223:GLY:C	26:BD:225:ALA:N	2.76	0.44
26:BD:267:SER:O	26:BD:269:PHE:HD1	2.00	0.44
28:BF:128:ALA:O	28:BF:130:ALA:N	2.51	0.44
29:BG:89:GLY:C	29:BG:90:LEU:HD22	2.42	0.44
31:BK:91:SER:OG	31:BK:119:PRO:HB2	2.18	0.44
33:BN:68:GLU:CB	33:BN:78:ARG:HB2	2.41	0.44
34:BO:13:ASN:O	34:BO:15:ARG:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:20:ALA:CA	35:BP:99:PRO:HG2	2.31	0.44
35:BP:69:PHE:CD1	35:BP:70:PRO:HD2	2.52	0.44
38:BR:41:ARG:C	38:BR:42:ILE:HD12	2.42	0.44
38:BR:105:LEU:HD22	38:BR:109:GLU:CB	2.46	0.44
42:BT:87:GLN:O	42:BT:88:LYS:HB3	2.18	0.44
43:BU:8:LYS:O	43:BU:27:VAL:HG23	2.17	0.44
43:BU:95:LYS:O	43:BU:95:LYS:HD3	2.18	0.44
44:BV:7:ALA:O	44:BV:8:TYR:CG	2.71	0.44
53:B8:8:LYS:O	53:B8:12:LYS:HG3	2.18	0.44
1:CA:96:G:C2	1:CA:97:U:H1'	2.52	0.44
1:CA:539:A:OP1	12:CO:114:LYS:CE	2.65	0.44
1:CA:542:G:H5'	4:CG:41:GLY:HA3	1.99	0.44
1:CA:597:G:C2'	1:CA:598:U:H5'	2.47	0.44
1:CA:599:C:N3	1:CA:600:C:C5	2.86	0.44
1:CA:663:A:O2'	1:CA:664:G:H5'	2.17	0.44
1:CA:927:G:HO2'	1:CA:1503:A:H62	1.63	0.44
1:CA:1378:C:N3	7:CJ:76:ARG:NH2	2.66	0.44
1:CA:1390:U:H2'	1:CA:1391:U:C6	2.53	0.44
1:CA:1504:G:H3'	1:CA:1504:G:P	2.55	0.44
1:CA:1535:C:C3'	1:CA:1536:C:H5	2.30	0.44
2:CE:54:THR:HG21	2:CE:201:ILE:HD11	2.00	0.44
4:CG:33:MET:HE1	4:CG:37:PRO:O	2.17	0.44
9:CL:29:ASN:OD1	9:CL:65:VAL:N	2.48	0.44
11:CN:83:ILE:HG12	11:CN:109:VAL:HG23	1.99	0.44
15:CR:55:GLY:HA2	15:CR:58:MET:HE2	2.00	0.44
16:CS:15:PRO:O	16:CS:16:HIS:ND1	2.50	0.44
22:CD:18:G:O2'	22:CD:60:U:N3	2.47	0.44
24:DA:304:G:H2'	24:DA:305:U:C6	2.53	0.44
24:DA:319:C:C2'	24:DA:320:A:H5'	2.48	0.44
24:DA:389:G:N1	34:DO:71:VAL:HG12	2.32	0.44
24:DA:412:A:N6	24:DA:2412:A:O4'	2.51	0.44
24:DA:486:C:H4'	41:DS:60:ASN:OD1	2.17	0.44
24:DA:774:A:H2	24:DA:787:U:C2'	2.30	0.44
24:DA:821:A:H5"	24:DA:822:U:H6	1.83	0.44
24:DA:917:A:C2'	24:DA:918:A:H5'	2.46	0.44
24:DA:1558:A:O4'	24:DA:1558:A:N3	2.50	0.44
24:DA:1869:G:H8	24:DA:1869:G:C5'	2.26	0.44
24:DA:2213:U:C1'	46:DZ:52:ARG:CZ	2.95	0.44
24:DA:2259:G:C2	24:DA:2282:G:N1	2.86	0.44
24:DA:2739:U:O2'	24:DA:2740:A:H5'	2.17	0.44
25:DB:20:C:H2'	25:DB:21:G:C5'	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:17:THR:HG21	26:DD:204:ILE:HA	1.99	0.44
27:DE:93:VAL:C	27:DE:95:ILE:N	2.75	0.44
27:DE:120:TRP:CE3	27:DE:155:LYS:HD3	2.53	0.44
28:DF:24:LEU:HD12	28:DF:24:LEU:N	2.33	0.44
28:DF:149:ASP:OD2	28:DF:151:SER:HB3	2.17	0.44
28:DF:201:VAL:HG13	28:DF:202:PHE:N	2.33	0.44
30:DH:4:ILE:H	30:DH:4:ILE:CD1	2.25	0.44
31:DK:110:ASP:CB	31:DK:111:PRO:CA	2.96	0.44
33:DN:40:VAL:CG1	33:DN:41:ALA:N	2.80	0.44
33:DN:120:GLU:OE1	38:DR:67:SER:OG	2.25	0.44
34:DO:6:LEU:N	34:DO:6:LEU:HD22	2.31	0.44
35:DP:66:ILE:O	35:DP:104:PHE:N	2.49	0.44
38:DR:23:ARG:CB	38:DR:24:PRO:HD2	2.40	0.44
39:D1:86:ALA:CB	39:D1:88:ILE:HD11	2.47	0.44
40:D2:72:VAL:HG13	40:D2:85:LYS:HB3	2.00	0.44
41:DS:19:LEU:HA	41:DS:19:LEU:HD12	1.79	0.44
43:DU:36:ALA:HB1	43:DU:67:LEU:O	2.16	0.44
44:DV:48:PHE:HE2	44:DV:71:VAL:HG11	1.82	0.44
44:DV:152:ALA:H	44:DV:170:THR:H	1.66	0.44
44:DV:169:GLU:O	44:DV:170:THR:OG1	2.35	0.44
45:D3:25:ARG:HH11	45:D3:25:ARG:HG2	1.82	0.44
45:D3:40:GLN:OE1	45:D3:45:PHE:HB2	2.18	0.44
46:DZ:60:PHE:HE2	46:DZ:91:LYS:NZ	2.16	0.44
48:DX:60:GLU:HG2	48:DX:60:GLU:O	2.16	0.44
49:D4:39:CYS:HB3	49:D4:41:PRO:HD2	2.00	0.44
1:AA:14:U:C6	1:AA:16:A:OP2	2.70	0.44
1:AA:68:G:N2	1:AA:69:G:H1'	2.33	0.44
1:AA:187:C:O2'	1:AA:188:U:H5'	2.18	0.44
1:AA:261:U:OP2	20:AW:79:ARG:NH2	2.50	0.44
1:AA:710:G:O2'	1:AA:711:G:H5'	2.17	0.44
1:AA:760:G:C2'	1:AA:761:G:H5'	2.45	0.44
1:AA:848:C:H2'	1:AA:849:C:C6	2.53	0.44
1:AA:933:G:OP2	7:AJ:2:ALA:CB	2.66	0.44
1:AA:947:G:O2'	1:AA:948:C:H5'	2.18	0.44
2:AE:22:LYS:N	2:AE:22:LYS:CD	2.80	0.44
2:AE:117:GLU:HG3	2:AE:118:LEU:N	2.32	0.44
3:AF:150:LYS:CB	3:AF:169:ALA:HB2	2.48	0.44
3:AF:172:ARG:HH21	3:AF:174:PRO:CG	2.23	0.44
4:AG:40:PRO:O	4:AG:44:GLY:HA3	2.17	0.44
10:AM:34:VAL:CG2	10:AM:74:ILE:HG22	2.45	0.44
13:AP:29:ARG:HD3	13:AP:64:TRP:CE3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AS:6:LEU:HB3	16:AS:17:TYR:HD2	1.81	0.44
17:AT:36:ILE:O	17:AT:36:ILE:HG13	2.18	0.44
18:AU:53:ARG:NH2	18:AU:60:ALA:N	2.65	0.44
20:AW:87:LYS:O	20:AW:88:VAL:C	2.61	0.44
24:BA:67:U:C2'	24:BA:68:G:H8	2.27	0.44
24:BA:121:G:H4'	24:BA:149:A:H5'	1.99	0.44
24:BA:139:G:O2'	24:BA:140:A:H2	2.00	0.44
24:BA:141:A:H5'	24:BA:141(A):C:OP2	2.18	0.44
24:BA:359:A:H2'	24:BA:360:G:O4'	2.18	0.44
24:BA:627:A:H4'	24:BA:628:G:H5'	1.98	0.44
24:BA:675:A:O2'	28:BF:67:GLN:NE2	2.50	0.44
24:BA:811:U:H2'	34:BO:21:ARG:HG3	1.99	0.44
24:BA:933:A:C5	24:BA:934:G:C8	3.04	0.44
24:BA:1229(A):G:H2'	24:BA:1230:C:O4'	2.18	0.44
24:BA:1382:G:O2'	24:BA:1383:C:H5'	2.18	0.44
24:BA:1710:C:O2'	24:BA:1711:C:H5'	2.17	0.44
24:BA:2053:G:H2'	24:BA:2054:A:O4'	2.17	0.44
24:BA:2225:A:H4'	24:BA:2226:C:C6	2.53	0.44
24:BA:2374:C:H2'	24:BA:2375:G:O4'	2.17	0.44
24:BA:2556:C:H2'	24:BA:2557:G:H5'	1.99	0.44
24:BA:2656:U:O4	24:BA:2657:A:N7	2.51	0.44
24:BA:2657:A:N9	24:BA:2665:A:N6	2.65	0.44
24:BA:2748:A:H2'	24:BA:2749:A:O5'	2.18	0.44
26:BD:257:LEU:HD23	26:BD:257:LEU:C	2.42	0.44
27:BE:24:THR:O	27:BE:25:VAL:CB	2.66	0.44
28:BF:61:GLY:O	28:BF:62:ARG:C	2.59	0.44
29:BG:67:LYS:HD3	49:B4:5:ILE:HD12	1.99	0.44
30:BH:15:VAL:O	30:BH:15:VAL:HG23	2.17	0.44
31:BK:97:ILE:HG13	31:BK:140:LEU:HD21	2.00	0.44
31:BK:98:ALA:C	31:BK:100:ALA:N	2.74	0.44
35:BP:115:MET:HG3	35:BP:131:ILE:HD13	1.99	0.44
37:BQ:29:PHE:HD2	37:BQ:30:ARG:N	2.15	0.44
38:BR:105:LEU:CD2	38:BR:109:GLU:HG3	2.47	0.44
40:B2:75:PHE:CD1	40:B2:75:PHE:C	2.96	0.44
41:BS:95:ILE:O	41:BS:95:ILE:HG13	2.18	0.44
44:BV:11:GLU:CG	44:BV:12:GLY:N	2.80	0.44
44:BV:157:LEU:O	44:BV:161:VAL:HG21	2.18	0.44
47:BW:33:MET:HE3	47:BW:37:PHE:CE1	2.53	0.44
49:B4:2:LYS:H	49:B4:2:LYS:CD	2.23	0.44
49:B4:40:HIS:N	49:B4:41:PRO:CD	2.58	0.44
51:B6:28:ARG:HD2	51:B6:29:ASN:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B6:30:THR:CA	51:B6:31:PRO:C	2.88	0.44
1:CA:865:A:H2	1:CA:918:A:H4'	1.81	0.44
1:CA:1226:C:H2'	13:CP:103:THR:O	2.18	0.44
1:CA:1542:G:H3'	18:CU:19:LYS:HD3	2.00	0.44
2:CE:24:TRP:CD2	2:CE:26:PRO:HD3	2.51	0.44
4:CG:9:CYS:SG	4:CG:32:ALA:HB2	2.58	0.44
4:CG:96:LEU:C	4:CG:98:GLU:N	2.72	0.44
5:CH:82:VAL:HG12	5:CH:83:GLU:H	1.77	0.44
8:CK:28:ALA:O	8:CK:29:SER:HB2	2.18	0.44
10:CM:38:ILE:CG1	10:CM:71:LEU:HB3	2.48	0.44
11:CN:124:LYS:HB3	11:CN:125:PHE:H	1.67	0.44
17:CT:66:SER:O	17:CT:67:LYS:C	2.61	0.44
19:CV:8:GLY:O	19:CV:9:VAL:CG2	2.57	0.44
22:CC:47:U:O2'	22:CC:48:C:H6	2.00	0.44
22:CD:25:C:H2'	22:CD:26:G:O4'	2.18	0.44
22:CD:27:U:H2'	22:CD:28:C:H6	1.82	0.44
22:CD:29:G:O2'	22:CD:30:G:H5'	2.18	0.44
24:DA:86:C:H4'	24:DA:104:U:H1'	1.99	0.44
24:DA:152:G:H2'	24:DA:153:C:H6	1.82	0.44
24:DA:197:A:H2'	24:DA:198:C:H5'	1.99	0.44
24:DA:670:A:H4'	24:DA:671:C:O5'	2.17	0.44
24:DA:765:G:H2'	24:DA:766:C:C6	2.52	0.44
24:DA:1188:U:H2'	24:DA:1189:A:H5'	1.98	0.44
24:DA:1311:G:O2'	24:DA:1312:U:P	2.76	0.44
24:DA:1312:U:HO2'	24:DA:1313:U:P	2.41	0.44
24:DA:1312:U:O2'	24:DA:1313:U:OP2	2.31	0.44
24:DA:1332:G:N2	24:DA:1610:A:H8	2.12	0.44
24:DA:1888:G:H5'	24:DA:1889:A:P	2.58	0.44
24:DA:2110:G:O2'	24:DA:2111:C:OP1	2.29	0.44
24:DA:2228:G:C6	24:DA:2229:C:C4	3.05	0.44
24:DA:2458:G:O2'	24:DA:2460:U:O4	2.34	0.44
24:DA:2467:C:C2'	24:DA:2468:G:H5'	2.48	0.44
24:DA:2798:C:C4	24:DA:2799:A:N6	2.86	0.44
25:DB:60:C:C2	25:DB:61:G:C8	3.05	0.44
28:DF:65:TRP:CZ2	28:DF:72:ARG:NH2	2.86	0.44
30:DH:6:ARG:CG	30:DH:7:LEU:N	2.81	0.44
31:DK:46:ALA:O	31:DK:47:LEU:C	2.61	0.44
32:DM:67:LEU:HA	32:DM:87:LEU:HD13	2.00	0.44
32:DM:112:LEU:C	32:DM:114:ARG:O	2.60	0.44
33:DN:97:ARG:HA	33:DN:117:LEU:HD22	2.00	0.44
34:DO:88:LEU:O	34:DO:90:ARG:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DO:107:LYS:HB2	34:DO:110:TYR:HD2	1.83	0.44
34:DO:115:LEU:CB	34:DO:131:SER:HB2	2.47	0.44
37:DQ:57:LYS:O	37:DQ:58:LEU:HB3	2.18	0.44
39:D1:97:ASP:HA	39:D1:100:VAL:CG2	2.47	0.44
40:D2:35:LEU:C	40:D2:37:VAL:N	2.75	0.44
49:D4:2:LYS:HA	49:D4:2:LYS:HD2	1.61	0.44
51:D6:34:LEU:O	51:D6:36:LEU:HD22	2.17	0.44
1:AA:109:A:C6	1:AA:326:G:C6	3.06	0.44
1:AA:197:A:N6	1:AA:220:G:O2'	2.50	0.44
1:AA:457:C:O2'	1:AA:458:C:H5'	2.18	0.44
1:AA:547:A:O2'	1:AA:548:G:OP2	2.35	0.44
1:AA:792:A:N3	1:AA:794:A:C5	2.85	0.44
1:AA:946:A:O2'	1:AA:1333:A:N3	2.43	0.44
1:AA:1057:G:H5"	3:AF:154:SER:O	2.17	0.44
1:AA:1128:C:C4	1:AA:1139:G:N2	2.86	0.44
1:AA:1325:C:N3	1:AA:1326:C:C5	2.86	0.44
3:AF:108:ASN:HD21	3:AF:144:SER:CB	2.24	0.44
3:AF:177:THR:O	3:AF:177:THR:HG23	2.18	0.44
3:AF:186:PHE:HZ	3:AF:188:LEU:HD13	1.83	0.44
3:AF:186:PHE:HA	3:AF:198:VAL:O	2.17	0.44
4:AG:86:LYS:HA	4:AG:86:LYS:HZ2	1.78	0.44
5:AH:35:GLY:HA3	5:AH:112:LEU:HB3	2.00	0.44
6:AI:10:LEU:HD12	6:AI:61:LEU:HD13	2.00	0.44
10:AM:39:PRO:HA	10:AM:70:ARG:HH12	1.81	0.44
13:AP:46:LYS:O	13:AP:47:ASP:C	2.61	0.44
15:AR:10:LYS:HE3	15:AR:10:LYS:C	2.43	0.44
17:AT:7:THR:HG22	17:AT:8:GLY:N	2.32	0.44
18:AU:53:ARG:HA	18:AU:56:THR:OG1	2.17	0.44
19:AV:70:LYS:O	19:AV:71:LEU:HD23	2.18	0.44
20:AW:26:ASN:HA	20:AW:29:LYS:CG	2.47	0.44
22:AD:72:A:H2'	22:AD:73:A:C5'	2.32	0.44
24:BA:69:C:H2'	24:BA:69:C:O2	2.16	0.44
24:BA:300:A:C5	24:BA:334:C:H4'	2.53	0.44
24:BA:676:A:H2	24:BA:802:A:H61	1.63	0.44
24:BA:706:A:H2'	24:BA:707:G:O4'	2.17	0.44
24:BA:1359:A:C2'	24:BA:1360:A:O5'	2.66	0.44
24:BA:1389:G:H2'	24:BA:1390:U:C6	2.53	0.44
24:BA:1528:A:C2	24:BA:1543:A:C2	3.05	0.44
24:BA:1573:G:C8	24:BA:1574:C:C5	3.06	0.44
24:BA:1638:C:O2	24:BA:2698:U:O2'	2.35	0.44
24:BA:1955:U:O3'	24:BA:1956:U:H6	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2114:A:C8	24:BA:2118:U:OP2	2.70	0.44
24:BA:2298:A:N6	24:BA:2318:G:C8	2.86	0.44
24:BA:2394:C:P	34:BO:63:PRO:HD2	2.58	0.44
24:BA:2444:G:P	28:BF:68:LYS:HE3	2.57	0.44
24:BA:2538:C:O2'	24:BA:2539:C:H5'	2.17	0.44
24:BA:2540:C:O2'	24:BA:2740:A:N3	2.48	0.44
24:BA:2557:G:O2'	24:BA:2558:C:H5'	2.17	0.44
24:BA:2635:C:H5'	27:BE:77:ILE:CG2	2.48	0.44
24:BA:2637:U:C5'	24:BA:2638:G:OP2	2.66	0.44
24:BA:2726:U:O2'	33:BN:67:LYS:HE2	2.18	0.44
24:BA:2735:G:H2'	24:BA:2736:G:C8	2.51	0.44
24:BA:2791:C:C5'	24:BA:2792:G:OP1	2.56	0.44
25:BB:73:A:C4	25:BB:104:A:C2	3.06	0.44
26:BD:34:VAL:O	26:BD:35:LYS:CB	2.65	0.44
29:BG:32:PRO:HB2	29:BG:172:LEU:HD22	1.97	0.44
30:BH:137:ASP:OD1	30:BH:138:LYS:N	2.51	0.44
30:BH:155:SER:O	30:BH:156:ALA:C	2.61	0.44
33:BN:52:VAL:HG22	33:BN:94:ARG:NH1	2.32	0.44
35:BP:7:MET:HE1	35:BP:93:TYR:OH	2.18	0.44
35:BP:90:VAL:HG12	35:BP:90:VAL:O	2.18	0.44
36:B0:45:ARG:O	36:B0:46:GLY:C	2.60	0.44
37:BQ:10:ARG:CZ	37:BQ:91:PRO:HB2	2.47	0.44
38:BR:3:ARG:C	38:BR:5:ALA:N	2.76	0.44
38:BR:36:GLU:CD	38:BR:41:ARG:HD2	2.42	0.44
39:B1:111:GLU:HA	39:B1:114:LYS:HG2	2.00	0.44
40:B2:37:VAL:CG2	40:B2:38:LEU:N	2.76	0.44
40:B2:83:ARG:HH11	40:B2:83:ARG:HG3	1.83	0.44
42:BT:51:VAL:HA	42:BT:83:VAL:HA	2.00	0.44
44:BV:165:VAL:CG2	44:BV:166:SER:H	2.27	0.44
46:BZ:27:GLU:O	46:BZ:28:GLY:C	2.60	0.44
47:BW:6:VAL:O	47:BW:7:ARG:C	2.61	0.44
1:CA:456:C:H2'	1:CA:457:C:C6	2.51	0.44
1:CA:964:A:N3	1:CA:969:A:O2'	2.43	0.44
1:CA:1008:C:H5'	1:CA:1008:C:H6	1.83	0.44
1:CA:1025:U:C6	1:CA:1025:U:H3'	2.52	0.44
1:CA:1176:A:N6	1:CA:1177:G:C4	2.85	0.44
1:CA:1399:C:C2	1:CA:1401:G:C5	3.05	0.44
4:CG:52:SER:HB3	4:CG:55:ALA:HB3	2.00	0.44
4:CG:93:PHE:CZ	4:CG:97:LEU:HD11	2.52	0.44
4:CG:132:ARG:HH11	4:CG:132:ARG:HG2	1.83	0.44
5:CH:154:GLY:O	5:CH:155:GLU:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:106:LYS:O	11:CN:107:SER:CB	2.66	0.44
13:CP:4:ILE:O	13:CP:5:ALA:C	2.60	0.44
20:CW:48:LYS:HB3	20:CW:51:GLU:CG	2.48	0.44
22:CD:26:G:H22	22:CD:45:G:N2	2.16	0.44
22:CD:66:C:H2'	22:CD:67:C:H6	1.82	0.44
24:DA:6:A:H4'	32:DM:129:PRO:HB3	2.00	0.44
24:DA:13:A:H5"	24:DA:14:A:OP1	2.18	0.44
24:DA:74:A:H4'	24:DA:75:G:O4'	2.17	0.44
24:DA:445:C:C2'	24:DA:446:G:H5'	2.47	0.44
24:DA:609(A):G:H2'	24:DA:610:C:C6	2.53	0.44
24:DA:847:U:C4	24:DA:933:A:N1	2.86	0.44
24:DA:958:U:O2	25:DB:89(A):A:H4'	2.17	0.44
24:DA:1012:U:O2'	24:DA:1013:C:OP2	2.32	0.44
24:DA:1277:G:O2'	36:D0:24:GLN:NE2	2.51	0.44
24:DA:1835:G:C5'	24:DA:1836:C:OP2	2.66	0.44
24:DA:2002:G:OP1	36:D0:9:LYS:HD3	2.17	0.44
24:DA:2615:U:H2'	24:DA:2616:C:H6	1.83	0.44
25:DB:33:G:H5'	29:DG:2:PRO:CG	2.48	0.44
26:DD:145:VAL:HB	26:DD:155:LEU:HB2	1.99	0.44
28:DF:184:TYR:CE2	28:DF:188:ARG:HD2	2.52	0.44
29:DG:51:ARG:HB3	29:DG:51:ARG:NH1	2.33	0.44
37:DQ:56:LEU:O	37:DQ:57:LYS:O	2.36	0.44
37:DQ:110:LEU:HA	37:DQ:112:PHE:CE1	2.53	0.44
38:DR:99:LEU:O	38:DR:99:LEU:CD1	2.65	0.44
39:D1:27:LEU:O	39:D1:28:ARG:C	2.61	0.44
39:D1:44:ASN:HD21	40:D2:75:PHE:N	2.16	0.44
41:DS:14:PRO:HB3	41:DS:18:ARG:HE	1.83	0.44
44:DV:24:LEU:HD21	44:DV:86:VAL:CG2	2.48	0.44
44:DV:108:PRO:O	44:DV:110:GLY:N	2.45	0.44
44:DV:152:ALA:HA	44:DV:171:ILE:HB	2.00	0.44
45:D3:68:GLU:OE1	45:D3:82:ARG:NH1	2.50	0.44
46:DZ:82:LEU:HD12	46:DZ:82:LEU:O	2.11	0.44
49:D4:23:GLU:O	49:D4:24:THR:OG1	2.34	0.44
49:D4:39:CYS:O	49:D4:40:HIS:CB	2.66	0.44
49:D4:68:ARG:HH11	49:D4:69:LYS:HG2	1.82	0.44
1:AA:575:G:H4'	1:AA:576:G:C5'	2.47	0.44
1:AA:910:C:OP2	12:AO:21:LYS:NZ	2.51	0.44
1:AA:960:U:O2'	1:AA:961:U:P	2.76	0.44
1:AA:1176:A:N6	1:AA:1177:G:C5	2.86	0.44
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.33	0.44
4:AG:110:PHE:O	4:AG:161:ASN:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AJ:38:LEU:HD12	7:AJ:38:LEU:N	2.30	0.44
7:AJ:120:ILE:HG22	7:AJ:124:LEU:HD12	1.99	0.44
9:AL:27:THR:HG1	9:AL:31:GLN:C	2.26	0.44
12:AO:68:ALA:HB1	12:AO:85:ILE:HD11	2.00	0.44
19:AV:39:THR:HA	19:AV:70:LYS:HA	1.99	0.44
20:AW:97:ALA:O	20:AW:99:LEU:N	2.50	0.44
21:AX:15:ARG:HH11	21:AX:15:ARG:CB	2.12	0.44
24:BA:234:C:C2	24:BA:235:U:C6	3.06	0.44
24:BA:469:G:C2'	24:BA:470:A:H5"	2.48	0.44
24:BA:656:G:H2'	24:BA:657:U:O4'	2.17	0.44
24:BA:1049:C:C5	24:BA:1050:A:N7	2.85	0.44
24:BA:1087:G:H2'	24:BA:1089:G:H1'	1.99	0.44
24:BA:1310:G:OP2	52:B7:9:ARG:NH1	2.51	0.44
24:BA:1903:G:OP2	26:BD:241:PRO:HB2	2.18	0.44
24:BA:2147:G:C8	24:BA:2147:G:H3'	2.52	0.44
24:BA:2299:G:N1	24:BA:2318:G:H8	2.15	0.44
24:BA:2571:C:H5"	24:BA:2572:A:H5"	1.99	0.44
24:BA:2636:U:H4'	27:BE:80:GLU:OE2	2.18	0.44
25:BB:24:G:H5'	25:BB:25:A:C8	2.52	0.44
25:BB:57:A:C4	29:BG:29:TRP:HB2	2.53	0.44
28:BF:25:PRO:O	28:BF:26:ALA:CB	2.65	0.44
30:BH:34:GLU:CD	30:BH:35:VAL:H	2.26	0.44
30:BH:43:VAL:O	30:BH:43:VAL:HG22	2.18	0.44
30:BH:51:ARG:NH1	30:BH:51:ARG:H	2.16	0.44
30:BH:123:PHE:HD2	30:BH:133:VAL:HG21	1.83	0.44
33:BN:105:GLU:N	33:BN:105:GLU:OE1	2.50	0.44
34:BO:119:GLU:HA	34:BO:119:GLU:OE1	2.18	0.44
36:B0:69:ASP:O	36:B0:70:LEU:HG	2.17	0.44
38:BR:50:ILE:HA	38:BR:99:LEU:HD12	2.00	0.44
41:BS:55:ALA:C	41:BS:57:ASN:N	2.75	0.44
42:BT:7:VAL:O	42:BT:30:VAL:HG12	2.18	0.44
44:BV:136:PHE:CD1	44:BV:136:PHE:C	2.96	0.44
46:BZ:86:SER:H	46:BZ:87:PRO:HD3	1.83	0.44
46:BZ:86:SER:H	46:BZ:87:PRO:CD	2.30	0.44
50:B5:6:VAL:HG13	50:B5:7:PRO:HD2	2.00	0.44
50:B5:55:ARG:HB2	50:B5:55:ARG:HH11	1.81	0.44
51:B6:24:GLU:OE1	53:B8:34:TRP:CZ3	2.71	0.44
51:B6:29:ASN:C	51:B6:30:THR:HG22	2.42	0.44
53:B8:6:THR:O	53:B8:7:HIS:CB	2.64	0.44
53:B8:24:ALA:O	53:B8:48:PHE:CE1	2.71	0.44
1:CA:85:U:O2'	1:CA:86:U:O5'	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:255:G:OP1	17:CT:69:LYS:NZ	2.45	0.44
1:CA:404:U:O2'	1:CA:405:U:H5'	2.17	0.44
1:CA:484:G:O2'	1:CA:485:G:P	2.76	0.44
1:CA:495:A:H4'	1:CA:496:A:O5'	2.15	0.44
1:CA:655:A:C2	1:CA:754:C:N4	2.86	0.44
1:CA:1200:C:H4'	1:CA:1201:A:C5'	2.45	0.44
1:CA:1459:C:H5"	20:CW:27:LYS:NZ	2.33	0.44
1:CA:1530:G:H2'	1:CA:1531:A:O4'	2.18	0.44
2:CE:132:LYS:HA	2:CE:135:GLN:CB	2.43	0.44
2:CE:178:ARG:HH22	8:CK:68:ARG:NH2	2.16	0.44
3:CF:68:VAL:HG12	3:CF:70:VAL:HG23	1.98	0.44
5:CH:27:ARG:C	5:CH:28:PHE:CD1	2.96	0.44
5:CH:31:LEU:HD23	5:CH:45:PHE:CD1	2.53	0.44
5:CH:62:ALA:O	5:CH:64:ARG:N	2.51	0.44
6:CI:3:ARG:HG2	6:CI:93:SER:OG	2.17	0.44
8:CK:88:LYS:HB3	8:CK:89:PRO:HD2	2.00	0.44
14:CQ:17:LYS:HG3	14:CQ:18:VAL:N	2.33	0.44
18:CU:20:ALA:O	18:CU:21:LYS:HG3	2.18	0.44
24:DA:192:C:C2'	24:DA:193:U:H5'	2.46	0.44
24:DA:271(C):U:C2'	24:DA:271:G:OP1	2.66	0.44
24:DA:491:G:N2	24:DA:492:A:H1'	2.33	0.44
24:DA:860:U:O2	24:DA:860:U:O4'	2.33	0.44
24:DA:1005:C:O2'	32:DM:28:THR:CG2	2.66	0.44
24:DA:1407:C:O2	24:DA:1407:C:H2'	2.17	0.44
24:DA:1535:U:C2	24:DA:1537:C:O2	2.71	0.44
24:DA:1916:A:H3'	24:DA:1917:U:H6	1.83	0.44
24:DA:2376:A:N1	37:DQ:87:PHE:HD2	2.13	0.44
24:DA:2402:C:H2'	24:DA:2403:C:H5'	1.99	0.44
24:DA:2746:U:H6	24:DA:2746:U:O5'	2.01	0.44
24:DA:2830:G:N3	24:DA:2883:A:H2	2.15	0.44
25:DB:66:A:HO2'	25:DB:67:G:P	2.41	0.44
26:DD:44:ASN:CB	26:DD:49:ILE:HG22	2.46	0.44
26:DD:155:LEU:N	26:DD:155:LEU:HD12	2.32	0.44
27:DE:172:VAL:HG13	27:DE:182:LEU:HD11	1.98	0.44
28:DF:42:ALA:O	28:DF:45:ARG:HB2	2.18	0.44
29:DG:136:ARG:O	29:DG:137:GLU:C	2.61	0.44
31:DK:92:VAL:O	31:DK:120:ILE:HG22	2.18	0.44
35:DP:81:VAL:HG23	35:DP:82:ARG:N	2.31	0.44
37:DQ:86:ALA:O	37:DQ:87:PHE:CB	2.65	0.44
39:D1:79:PHE:CE2	39:D1:83:LEU:CD1	3.00	0.44
43:DU:95:LYS:C	43:DU:96:ILE:O	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:27:VAL:CG2	44:DV:28:MET:H	2.31	0.44
44:DV:35:ARG:HB3	44:DV:35:ARG:HH11	1.83	0.44
44:DV:117:LEU:HB3	44:DV:118:GLN:H	1.70	0.44
44:DV:137:ILE:O	44:DV:156:LYS:NZ	2.50	0.44
46:DZ:49:VAL:HG12	46:DZ:51:VAL:HG23	1.99	0.44
22:CB:11:A:H8	22:CB:11:A:O5'	2.01	0.44
1:AA:115:G:HO2'	1:AA:116:A:P	2.34	0.44
1:AA:532:A:H61	3:AF:193:TYR:CB	2.29	0.44
1:AA:560:U:HO2'	1:AA:561:U:P	2.36	0.44
1:AA:622:A:C8	1:AA:623:C:C5	3.06	0.44
1:AA:890:G:C2'	1:AA:891:U:OP2	2.66	0.44
1:AA:1032(B):G:H2'	1:AA:1033:G:H5"	2.00	0.44
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.82	0.44
2:AE:196:LEU:HD12	2:AE:197:VAL:H	1.83	0.44
4:AG:21:LEU:HD11	4:AG:26:CYS:O	2.18	0.44
4:AG:24:GLU:HA	4:AG:27:TYR:HB3	1.98	0.44
4:AG:92:VAL:O	4:AG:93:PHE:C	2.60	0.44
9:AL:4:TYR:HD2	9:AL:4:TYR:HA	1.65	0.44
10:AM:54:PHE:CE1	10:AM:55:LYS:HD2	2.53	0.44
12:AO:111:LYS:O	12:AO:112:ASP:CB	2.64	0.44
13:AP:99:ARG:O	13:AP:99:ARG:CD	2.65	0.44
17:AT:73:VAL:O	17:AT:73:VAL:HG22	2.16	0.44
18:AU:25:THR:C	18:AU:26:LEU:HD12	2.43	0.44
20:AW:67:ALA:HA	20:AW:73:HIS:CA	2.46	0.44
22:AC:58:A:O2'	22:AC:59:A:H3'	2.18	0.44
22:AD:1:C:C5	22:AD:2:G:N7	2.86	0.44
22:AD:19:G:O6	24:BA:2112:G:C1'	2.65	0.44
22:AD:25:C:C2'	22:AD:26:G:H5'	2.48	0.44
24:BA:6:A:H4'	32:BM:129:PRO:CB	2.45	0.44
24:BA:34:C:HO2'	24:BA:35:G:H8	1.61	0.44
24:BA:48:G:H2'	24:BA:49:A:H2	1.82	0.44
24:BA:126:A:OP2	52:B7:19:ARG:HG3	2.18	0.44
24:BA:323:G:C6	24:BA:333:G:C5	3.06	0.44
24:BA:728:G:C5	24:BA:730:C:C5	3.06	0.44
24:BA:831:G:H22	34:BO:53:GLY:CA	2.31	0.44
24:BA:846:C:C4	24:BA:930:U:C6	3.06	0.44
24:BA:986:C:O2'	24:BA:987:G:H5'	2.18	0.44
24:BA:1043:C:H42	24:BA:1112:G:H1	1.66	0.44
24:BA:1342:A:C2	24:BA:1397:U:C6	3.06	0.44
24:BA:1427:A:H4'	24:BA:1428:C:O5'	2.18	0.44
24:BA:1556:C:H2'	24:BA:1557:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1800:C:N3	24:BA:1817:G:N2	2.47	0.44
24:BA:2065:C:H2'	24:BA:2066:C:C6	2.53	0.44
24:BA:2291:U:O2'	24:BA:2374:C:O2	2.36	0.44
24:BA:2292:C:O2'	24:BA:2293:C:H5'	2.17	0.44
24:BA:2732:G:C3'	24:BA:2733:A:H5'	2.40	0.44
24:BA:2777:G:C5'	24:BA:2778:A:H5"	2.47	0.44
26:BD:193:VAL:HG22	26:BD:194:GLY:N	2.33	0.44
27:BE:121:ASN:C	27:BE:122:PHE:O	2.59	0.44
28:BF:70:THR:HG22	28:BF:72:ARG:HG2	2.00	0.44
29:BG:67:LYS:CE	49:B4:5:ILE:HG21	2.47	0.44
30:BH:137:ASP:HB3	30:BH:140:LYS:HB2	1.99	0.44
31:BK:5:LEU:HD11	31:BK:19:VAL:HG12	1.99	0.44
33:BN:120:GLU:OE2	33:BN:122:LEU:HD11	2.17	0.44
35:BP:8:LYS:O	35:BP:9:TYR:CD1	2.71	0.44
36:B0:11:ASN:HD22	36:B0:11:ASN:H	1.66	0.44
36:B0:57:ARG:O	36:B0:59:ASP:N	2.51	0.44
40:B2:5:VAL:HG23	40:B2:37:VAL:CG2	2.44	0.44
40:B2:31:ALA:O	40:B2:61:VAL:HG12	2.18	0.44
45:B3:83:PRO:C	45:B3:85:ALA:N	2.75	0.44
49:B4:33:VAL:O	49:B4:34:GLU:O	2.35	0.44
1:CA:581:G:C2	1:CA:582:U:C5	3.06	0.44
1:CA:1025:U:C6	1:CA:1025:U:C3'	3.01	0.44
1:CA:1204:A:OP1	14:CQ:3:ARG:NH2	2.50	0.44
1:CA:1336:C:H2'	1:CA:1337:G:OP2	2.17	0.44
1:CA:1348:U:C5	1:CA:1349:A:N7	2.86	0.44
1:CA:1460:A:H3'	1:CA:1461:G:C8	2.51	0.44
1:CA:1538:C:H3'	1:CA:1539:C:C5'	2.42	0.44
2:CE:47:THR:HG22	2:CE:51:LEU:CG	2.48	0.44
4:CG:13:ARG:NH2	4:CG:36:ARG:HH21	2.15	0.44
5:CH:48:ALA:HB2	5:CH:57:LYS:HD3	2.00	0.44
5:CH:80:ILE:C	5:CH:81:GLU:HG2	2.43	0.44
5:CH:94:ALA:HB2	5:CH:119:LEU:HG	2.00	0.44
7:CJ:23:VAL:C	7:CJ:27:ILE:HD13	2.43	0.44
7:CJ:75:VAL:HG13	7:CJ:145:ALA:HA	2.00	0.44
7:CJ:96:GLN:O	7:CJ:97:GLN:C	2.61	0.44
8:CK:23:SER:HB3	8:CK:62:TYR:HA	2.00	0.44
8:CK:109:ILE:HD11	8:CK:120:THR:HG22	2.00	0.44
9:CL:10:ARG:NE	9:CL:105:ASP:CB	2.81	0.44
9:CL:71:SER:C	9:CL:73:GLN:N	2.74	0.44
10:CM:51:ARG:HG2	10:CM:51:ARG:NH1	2.33	0.44
10:CM:100:THR:O	10:CM:101:VAL:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:121:PRO:HD2	11:CN:126:ARG:CD	2.46	0.44
12:CO:44:THR:HA	12:CO:45:PRO:HD3	1.70	0.44
13:CP:3:ARG:C	13:CP:9:ILE:HG21	2.43	0.44
19:CV:10:PHE:CD1	19:CV:38:SER:HB2	2.52	0.44
24:DA:184:C:H2'	24:DA:185:U:C6	2.53	0.44
24:DA:640:C:H2'	24:DA:641:C:C6	2.53	0.44
24:DA:1113:U:H5'	30:DH:2:SER:HB2	2.00	0.44
24:DA:1208:C:H5'	24:DA:1209:G:OP2	2.18	0.44
24:DA:1288:U:C5'	24:DA:1289:C:OP2	2.66	0.44
24:DA:1342:A:O2'	24:DA:1344:G:OP2	2.35	0.44
24:DA:1526:G:C6	24:DA:1527:G:C2	3.05	0.44
24:DA:1973:G:H2'	24:DA:1974:C:C6	2.52	0.44
24:DA:1985:G:O2'	24:DA:1986:A:H5'	2.18	0.44
24:DA:2765:A:H3'	24:DA:2765:A:N3	2.32	0.44
24:DA:2774:C:H2'	24:DA:2775:A:O4'	2.17	0.44
25:DB:43:C:H3'	25:DB:44:G:H5'	2.00	0.44
26:DD:95:LEU:O	26:DD:95:LEU:HD12	2.17	0.44
26:DD:143:HIS:HD2	26:DD:144:ALA:HB2	1.82	0.44
26:DD:237:GLU:HB3	26:DD:238:GLY:H	1.45	0.44
26:DD:272:ALA:HB1	26:DD:273:ARG:H	1.58	0.44
28:DF:174:VAL:CG1	28:DF:174:VAL:O	2.65	0.44
29:DG:16:ARG:CZ	29:DG:31:VAL:HG11	2.47	0.44
30:DH:37:VAL:HG11	30:DH:68:THR:HG23	1.98	0.44
33:DN:77:ILE:O	33:DN:77:ILE:HG23	2.17	0.44
37:DQ:110:LEU:HA	37:DQ:112:PHE:CZ	2.53	0.44
38:DR:29:ARG:HA	38:DR:45:PHE:O	2.17	0.44
41:DS:29:LEU:HD11	41:DS:55:ALA:HB2	1.98	0.44
42:DT:3:THR:HA	42:DT:6:ASP:OD2	2.18	0.44
42:DT:70:LEU:HD23	42:DT:70:LEU:H	1.77	0.44
43:DU:88:LYS:HB3	43:DU:90:LEU:CD2	2.48	0.44
44:DV:122:ARG:HB3	44:DV:123:ASP:H	1.43	0.44
51:D6:19:ARG:HD2	51:D6:19:ARG:HA	1.77	0.44
1:AA:8:A:H5'	5:AH:120:THR:O	2.18	0.43
1:AA:10:A:N3	1:AA:11:G:C8	2.86	0.43
1:AA:611:A:O5'	1:AA:611:A:H8	2.00	0.43
1:AA:745:C:H2'	1:AA:746:A:H8	1.82	0.43
1:AA:978:A:C2	1:AA:1319:A:H1'	2.53	0.43
1:AA:1267:C:O2	1:AA:1267:C:C2'	2.59	0.43
2:AE:173:ALA:O	2:AE:176:GLU:N	2.51	0.43
2:AE:216:SER:O	2:AE:218:ALA:N	2.51	0.43
3:AF:59:ARG:CG	3:AF:64:VAL:HG12	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:150:GLU:H	4:AG:150:GLU:CD	2.26	0.43
6:AI:44:GLY:HA2	6:AI:59:TYR:CZ	2.52	0.43
6:AI:72:VAL:HG13	6:AI:73:ASN:H	1.81	0.43
7:AJ:38:LEU:O	7:AJ:41:ARG:HB3	2.18	0.43
9:AL:84:ALA:O	9:AL:87:GLN:HB3	2.18	0.43
10:AM:10:GLY:HA3	10:AM:16:LEU:CD2	2.43	0.43
12:AO:53:ARG:HH11	12:AO:53:ARG:HG3	1.83	0.43
12:AO:88:GLY:H	12:AO:98:TYR:HA	1.83	0.43
13:AP:30:ALA:O	13:AP:34:LEU:HD23	2.18	0.43
14:AQ:50:LYS:C	14:AQ:52:GLN:H	2.24	0.43
16:AS:3:LYS:C	16:AS:4:ILE:HD12	2.42	0.43
18:AU:23:LYS:HA	18:AU:26:LEU:HD13	1.99	0.43
18:AU:25:THR:HG22	18:AU:25:THR:O	2.18	0.43
22:AC:37:A:H2'	22:AC:38:A:O4'	2.18	0.43
22:AD:26:G:N2	22:AD:45:G:N2	2.66	0.43
23:A1:4:A:H1'	23:A1:5:A:H8	1.83	0.43
24:BA:140:A:H8	24:BA:1409:C:H5'	1.83	0.43
24:BA:266:G:H2'	24:BA:267:C:O5'	2.18	0.43
24:BA:288:C:H2'	24:BA:288:C:O2	2.17	0.43
24:BA:357:A:H2'	24:BA:358:U:O4'	2.17	0.43
24:BA:693:C:H2'	24:BA:694:U:C6	2.53	0.43
24:BA:719:C:O2'	24:BA:720:C:H5'	2.18	0.43
24:BA:845:G:H21	24:BA:933:A:H61	1.65	0.43
24:BA:969:U:O5'	24:BA:969:U:H6	2.00	0.43
24:BA:1085:A:N3	24:BA:1086:A:C8	2.86	0.43
24:BA:1312:U:H3'	42:BT:63:LYS:HE2	1.99	0.43
24:BA:1328:G:H2'	24:BA:1330:C:N4	2.33	0.43
24:BA:1368:G:C2	24:BA:1369:G:C8	3.06	0.43
24:BA:1483:G:H2'	24:BA:1484:G:H8	1.83	0.43
24:BA:1599:C:OP1	42:BT:36:LYS:HB2	2.18	0.43
24:BA:1653:G:O2'	24:BA:1654:A:OP2	2.27	0.43
24:BA:1820:U:H2'	26:BD:158:ALA:O	2.16	0.43
24:BA:2161:C:C2'	24:BA:2162:G:H5'	2.48	0.43
24:BA:2179:C:O2	24:BA:2179:C:H2'	2.18	0.43
24:BA:2186:G:O2'	24:BA:2187:G:H5'	2.18	0.43
24:BA:2667:C:O5'	24:BA:2667:C:H6	2.01	0.43
25:BB:83:G:H5"	48:BX:52:HIS:ND1	2.32	0.43
27:BE:8:LYS:HB3	27:BE:193:GLY:H	1.83	0.43
27:BE:28:ALA:O	27:BE:29:GLY:O	2.36	0.43
27:BE:203:LYS:O	27:BE:204:ALA:HB2	2.18	0.43
28:BF:181:LEU:O	28:BF:205:ARG:NH2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:102:PHE:C	29:BG:104:GLU:H	2.24	0.43
30:BH:10:PRO:HB2	30:BH:11:VAL:H	1.61	0.43
30:BH:16:SER:O	30:BH:26:VAL:HA	2.18	0.43
30:BH:89:ILE:HD13	30:BH:90:LYS:N	2.29	0.43
31:BK:4:ILE:HG12	31:BK:18:VAL:HG22	2.00	0.43
31:BK:56:LYS:O	31:BK:60:GLU:N	2.38	0.43
32:BM:80:GLY:C	32:BM:82:LEU:H	2.26	0.43
38:BR:129:ARG:C	38:BR:131:ALA:N	2.74	0.43
42:BT:41:ASN:N	42:BT:41:ASN:HD22	2.16	0.43
44:BV:1:MET:O	44:BV:2:GLU:C	2.60	0.43
44:BV:5:LEU:HD11	44:BV:39:VAL:HG11	1.99	0.43
44:BV:94:GLU:CA	44:BV:130:PRO:HD3	2.47	0.43
44:BV:127:LYS:CG	44:BV:162:GLU:HG3	2.48	0.43
44:BV:141:VAL:HG12	44:BV:142:SER:N	2.33	0.43
53:B8:29:LYS:O	53:B8:32:LEU:N	2.51	0.43
1:CA:8:A:N7	4:CG:208:SER:O	2.51	0.43
1:CA:745:C:OP1	1:CA:851:G:O2'	2.28	0.43
1:CA:890:G:O2'	1:CA:906:G:N1	2.47	0.43
1:CA:1139:G:N2	1:CA:1143:G:C6	2.86	0.43
1:CA:1454:G:H2'	1:CA:1455:G:O4'	2.17	0.43
2:CE:33:TYR:HD1	2:CE:33:TYR:O	2.00	0.43
2:CE:163:PHE:HD2	2:CE:163:PHE:HA	1.70	0.43
3:CF:188:LEU:HD12	3:CF:195:VAL:CG1	2.48	0.43
4:CG:95:GLY:O	4:CG:99:SER:N	2.51	0.43
7:CJ:78:ARG:HH11	7:CJ:78:ARG:CG	2.30	0.43
10:CM:96:ILE:N	10:CM:96:ILE:CD1	2.79	0.43
12:CO:27:LEU:HD13	12:CO:28:LYS:H	1.83	0.43
13:CP:80:ARG:NH1	19:CV:65:ASN:O	2.51	0.43
16:CS:20:VAL:HG22	16:CS:21:VAL:H	1.83	0.43
20:CW:9:ASN:ND2	20:CW:9:ASN:O	2.47	0.43
20:CW:28:ALA:O	20:CW:30:LYS:N	2.50	0.43
24:DA:118:A:N3	24:DA:178:G:H1'	2.33	0.43
24:DA:301:G:O2'	24:DA:302:C:O4'	2.36	0.43
24:DA:506:G:O3'	24:DA:507:A:H8	1.99	0.43
24:DA:516:C:H1'	24:DA:1261:C:O2'	2.17	0.43
24:DA:569:U:C4	24:DA:570:G:C6	3.06	0.43
24:DA:701:G:C2'	24:DA:702:G:H5"	2.48	0.43
24:DA:1002:G:H2'	24:DA:1003:G:O5'	2.18	0.43
24:DA:1178:C:O2'	24:DA:1179:C:C5'	2.66	0.43
24:DA:1190:G:C5'	34:DO:32:THR:HA	2.48	0.43
24:DA:1312:U:O2'	24:DA:1313:U:P	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1443:G:C2'	24:DA:1444:G:H5'	2.48	0.43
24:DA:2119:A:C2	24:DA:2171:A:N3	2.86	0.43
24:DA:2139:C:C2'	24:DA:2140:C:H5'	2.47	0.43
24:DA:2495:G:H5"	35:DP:81:VAL:HG12	1.98	0.43
26:DD:35:LYS:HB3	26:DD:36:PRO:HA	2.00	0.43
26:DD:145:VAL:HG12	26:DD:146:GLU:N	2.32	0.43
27:DE:11:MET:O	27:DE:12:THR:HB	2.18	0.43
28:DF:79:GLY:O	28:DF:80:ALA:C	2.60	0.43
29:DG:67:LYS:N	29:DG:67:LYS:HD2	2.33	0.43
29:DG:121:ASN:HD21	29:DG:123:ASN:HB2	1.83	0.43
32:DM:109:LYS:H	32:DM:109:LYS:CD	2.26	0.43
33:DN:47:ILE:HG13	33:DN:48:PRO:HD2	1.99	0.43
33:DN:91:LEU:N	33:DN:91:LEU:CD2	2.80	0.43
34:DO:70:GLN:N	34:DO:70:GLN:OE1	2.51	0.43
39:D1:81:HIS:O	39:D1:82:GLY:C	2.61	0.43
40:D2:27:ALA:O	40:D2:28:GLU:C	2.61	0.43
40:D2:66:ARG:NH1	40:D2:88:ARG:NH1	2.62	0.43
41:DS:67:ASP:OD2	41:DS:67:ASP:N	2.50	0.43
42:DT:14:SER:HB2	42:DT:15:GLU:OE1	2.18	0.43
46:DZ:94:LEU:O	46:DZ:95:LEU:HB2	2.17	0.43
52:D7:19:ARG:HG2	52:D7:19:ARG:NH1	2.33	0.43
22:CB:14:A:H2'	22:CB:15:G:H5'	2.00	0.43
1:AA:186(F):C:H2'	1:AA:187:C:O4'	2.18	0.43
1:AA:375:U:H4'	16:AS:17:TYR:CE2	2.54	0.43
1:AA:541:G:O2'	1:AA:542:G:H5'	2.18	0.43
1:AA:814:A:N7	1:AA:816:A:C4	2.86	0.43
1:AA:878:G:H2'	1:AA:879:C:C6	2.53	0.43
1:AA:998(A):C:H2'	1:AA:999:U:C4'	2.48	0.43
1:AA:1017:G:O2'	1:AA:1018:C:H5'	2.16	0.43
1:AA:1067:A:H1'	1:AA:1068:G:O4'	2.18	0.43
1:AA:1100:C:P	2:AE:96:ARG:HD3	2.58	0.43
1:AA:1127:G:N2	1:AA:1144:G:N1	2.66	0.43
1:AA:1201:A:C2'	1:AA:1202:G:OP2	2.66	0.43
1:AA:1251:A:O2'	1:AA:1252:A:H5'	2.18	0.43
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.68	0.43
1:AA:1286:A:H4'	21:AX:25:LYS:HD2	2.00	0.43
2:AE:27:LYS:HB3	2:AE:194:PRO:HD2	2.00	0.43
2:AE:54:THR:HG22	2:AE:58:ILE:HD11	2.00	0.43
2:AE:74:LYS:HZ1	2:AE:169:LYS:HG3	1.81	0.43
2:AE:97:TRP:HH2	2:AE:176:GLU:CD	2.26	0.43
4:AG:111:ALA:HB2	4:AG:120:LEU:HD12	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:139:ARG:HG3	4:AG:139:ARG:NH1	2.25	0.43
6:AI:18:GLN:C	6:AI:20:ALA:N	2.74	0.43
6:AI:43:LEU:HD12	6:AI:43:LEU:N	2.33	0.43
7:AJ:2:ALA:O	7:AJ:4:ARG:N	2.51	0.43
8:AK:33:GLU:HG2	8:AK:59:LEU:HD11	1.99	0.43
8:AK:39:LEU:O	8:AK:44:PHE:HB2	2.18	0.43
8:AK:102:ARG:H	8:AK:102:ARG:HG3	1.53	0.43
10:AM:78:ASN:ND2	10:AM:81:THR:CG2	2.79	0.43
13:AP:32:GLU:HA	13:AP:35:GLU:HG2	2.00	0.43
15:AR:56:LEU:O	15:AR:60:VAL:HG23	2.17	0.43
17:AT:51:TYR:CD1	17:AT:51:TYR:N	2.86	0.43
18:AU:18:ARG:O	18:AU:20:ALA:N	2.47	0.43
18:AU:22:VAL:C	18:AU:24:ALA:N	2.56	0.43
20:AW:75:ASN:OD1	20:AW:75:ASN:N	2.49	0.43
22:AC:2:G:H5'	22:AC:2:G:H8	1.83	0.43
24:BA:270(E):G:O2'	24:BA:270(F):U:H5'	2.18	0.43
24:BA:794:G:H2'	24:BA:795:C:C6	2.53	0.43
24:BA:814:C:O2'	24:BA:815:C:H5'	2.18	0.43
24:BA:1006:C:O2	32:BM:106:MET:HG2	2.18	0.43
24:BA:1062:G:C6	24:BA:1077:A:C2	3.06	0.43
24:BA:1412:A:H2'	24:BA:1413:G:C8	2.52	0.43
24:BA:1785:A:H2'	24:BA:1787:A:N7	2.32	0.43
24:BA:1952:A:C6	24:BA:1953:A:N1	2.86	0.43
24:BA:2093:G:N2	24:BA:2094:G:C4	2.86	0.43
24:BA:2116:G:O6	24:BA:2172:U:C4	2.71	0.43
24:BA:2116:G:C8	24:BA:2117:A:C6	3.06	0.43
24:BA:2146:C:H5"	24:BA:2147:G:P	2.58	0.43
24:BA:2355:C:H4'	45:B3:36:ILE:HD11	1.99	0.43
24:BA:2591:C:OP1	26:BD:239:ARG:HG3	2.17	0.43
24:BA:2657:A:C1'	24:BA:2665:A:N6	2.81	0.43
24:BA:2711:A:OP1	24:BA:2712(A):A:P	2.76	0.43
24:BA:2865:U:C5	24:BA:2866:U:N3	2.86	0.43
25:BB:24:G:H2'	25:BB:56:G:C6	2.49	0.43
25:BB:111:U:H2'	25:BB:112:G:H8	1.78	0.43
26:BD:43:ARG:HD2	26:BD:44:ASN:OD1	2.19	0.43
28:BF:8:GLN:NE2	28:BF:8:GLN:O	2.51	0.43
28:BF:195:ASP:C	28:BF:197:ASP:H	2.25	0.43
29:BG:16:ARG:HE	29:BG:31:VAL:HG11	1.83	0.43
29:BG:128:ARG:HG2	29:BG:128:ARG:HH21	1.83	0.43
30:BH:10:PRO:O	30:BH:49:VAL:CG1	2.66	0.43
30:BH:85:LYS:O	30:BH:132:ARG:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:92:ILE:N	30:BH:92:ILE:CD1	2.81	0.43
31:BK:5:LEU:C	31:BK:6:LEU:HD12	2.43	0.43
31:BK:84:GLY:O	31:BK:86:THR:N	2.49	0.43
33:BN:10:VAL:HG11	33:BN:16:ALA:O	2.18	0.43
33:BN:71:ARG:C	33:BN:73:ASP:H	2.26	0.43
34:BO:26:GLY:O	34:BO:28:GLY:N	2.51	0.43
35:BP:66:ILE:CD1	35:BP:67:ARG:H	2.30	0.43
35:BP:125:LEU:C	35:BP:127:ILE:H	2.26	0.43
36:B0:18:LEU:CD1	36:B0:22:ARG:NE	2.81	0.43
36:B0:63:ARG:NH1	36:B0:80:PHE:CD1	2.86	0.43
37:BQ:23:ARG:NH2	37:BQ:84:GLN:OE1	2.50	0.43
39:B1:33:ARG:O	39:B1:37:GLU:HG2	2.18	0.43
42:BT:52:VAL:HG12	42:BT:82:GLN:O	2.18	0.43
43:BU:8:LYS:O	43:BU:27:VAL:CG2	2.67	0.43
44:BV:15:PRO:O	44:BV:19:ARG:HD3	2.18	0.43
47:BW:4:SER:HB2	47:BW:5:GLU:CD	2.43	0.43
48:BX:11:SER:HB3	48:BX:13:ILE:HG12	1.99	0.43
49:B4:66:SER:O	49:B4:68:ARG:N	2.51	0.43
52:B7:49:ARG:HG2	52:B7:49:ARG:NH1	2.33	0.43
1:CA:186(E):C:O2'	1:CA:186(F):C:H5'	2.18	0.43
1:CA:254:G:H2'	1:CA:255:G:H8	1.82	0.43
1:CA:539:A:OP1	12:CO:114:LYS:NZ	2.48	0.43
1:CA:918:A:H2'	1:CA:919:A:O4'	2.19	0.43
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.18	0.43
1:CA:1080:A:H5"	5:CH:16:THR:HG21	1.99	0.43
1:CA:1504:G:OP1	1:CA:1507:A:H4'	2.18	0.43
1:CA:1535:C:H2'	1:CA:1536:C:C5	2.51	0.43
2:CE:77:ALA:HB1	2:CE:165:VAL:HG11	2.00	0.43
2:CE:192:SER:OG	2:CE:193:ASP:N	2.50	0.43
2:CE:207:ALA:C	2:CE:209:ARG:N	2.76	0.43
3:CF:22:TRP:CB	3:CF:59:ARG:HB2	2.48	0.43
3:CF:59:ARG:HH12	3:CF:97:LYS:CD	2.31	0.43
3:CF:106:VAL:HG11	3:CF:109:PRO:HA	2.00	0.43
6:CI:35:ALA:HA	6:CI:67:MET:HB3	1.99	0.43
7:CJ:62:PHE:O	7:CJ:64:GLN:N	2.51	0.43
8:CK:74:PRO:O	8:CK:75:ARG:C	2.59	0.43
10:CM:96:ILE:HD13	10:CM:96:ILE:H	1.83	0.43
14:CQ:51:GLY:C	14:CQ:53:LEU:H	2.27	0.43
19:CV:5:LEU:HD22	49:D4:67:TYR:CZ	2.54	0.43
20:CW:59:ALA:C	20:CW:61:SER:N	2.75	0.43
22:CD:19:G:C2	22:CD:57:A:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:654(S):G:H2'	24:DA:654(T):A:O5'	2.18	0.43
24:DA:866:A:H2'	24:DA:866:A:N3	2.32	0.43
24:DA:1308:A:H2'	24:DA:1309:G:O4'	2.18	0.43
24:DA:1310:G:H2'	24:DA:1311:G:H5'	2.00	0.43
24:DA:1324:G:H1'	24:DA:1616:A:N6	2.33	0.43
24:DA:1509:C:C4	24:DA:1511:A:N6	2.85	0.43
24:DA:1530:G:C5	24:DA:1531:C:C5	3.06	0.43
24:DA:1645:G:OP1	24:DA:1646:C:H5'	2.18	0.43
24:DA:1710:C:H2'	24:DA:1711:C:H6	1.83	0.43
24:DA:2099:U:O2	24:DA:2099:U:H2'	2.17	0.43
24:DA:2228:G:C5	24:DA:2229:C:C5	3.05	0.43
24:DA:2277:G:C5'	35:DP:85:LYS:HG3	2.49	0.43
24:DA:2583:G:N1	24:DA:2584:U:C5	2.86	0.43
24:DA:2610:C:H4'	24:DA:2611:U:OP2	2.18	0.43
24:DA:2649:U:H2'	24:DA:2650:U:O4'	2.18	0.43
24:DA:2663:G:H3'	24:DA:2664:G:H8	1.83	0.43
24:DA:2687:U:C4	24:DA:2688:U:C6	3.06	0.43
24:DA:2725:A:HO2'	24:DA:2726:U:P	2.40	0.43
24:DA:2839:G:H2'	24:DA:2840:C:H6	1.81	0.43
25:DB:28:C:O2'	25:DB:29:A:H5'	2.18	0.43
25:DB:81:G:C2	25:DB:82:G:C5	3.04	0.43
25:DB:88:C:H3'	25:DB:89:G:C8	2.53	0.43
26:DD:30:GLU:HG3	26:DD:63:ARG:NE	2.32	0.43
26:DD:44:ASN:HB2	26:DD:49:ILE:HA	1.93	0.43
26:DD:102:LYS:O	26:DD:103:ARG:CG	2.66	0.43
28:DF:108:LYS:O	28:DF:109:GLY:C	2.61	0.43
29:DG:44:GLY:HA2	29:DG:88:ILE:HD11	1.99	0.43
30:DH:136:ILE:HD12	30:DH:136:ILE:N	2.31	0.43
31:DK:94:ALA:O	31:DK:95:LYS:C	2.60	0.43
31:DK:121:LYS:HE3	31:DK:121:LYS:HB2	1.79	0.43
32:DM:133:GLN:C	32:DM:134:ARG:HG2	2.41	0.43
34:DO:96:THR:HG22	34:DO:126:VAL:CB	2.47	0.43
34:DO:101:VAL:HA	34:DO:106:LEU:HB2	1.99	0.43
36:D0:75:LEU:C	36:D0:75:LEU:CD1	2.91	0.43
37:DQ:110:LEU:HD23	37:DQ:112:PHE:CE2	2.54	0.43
38:DR:49:VAL:O	38:DR:49:VAL:CG1	2.64	0.43
38:DR:107:ASP:OD2	38:DR:109:GLU:HB2	2.19	0.43
39:D1:90:VAL:C	39:D1:92:ARG:N	2.76	0.43
40:D2:35:LEU:HD22	40:D2:35:LEU:N	2.23	0.43
41:DS:88:ARG:HH11	41:DS:88:ARG:HG2	1.82	0.43
43:DU:47:LYS:O	43:DU:49:VAL:N	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:12:GLY:O	44:DV:13:GLU:O	2.36	0.43
44:DV:144:LEU:HD21	44:DV:150:LEU:HD13	2.00	0.43
44:DV:158:PRO:N	44:DV:161:VAL:HG21	2.33	0.43
45:D3:25:ARG:CD	45:D3:29:GLN:HE22	2.27	0.43
49:D4:48:ARG:NH1	49:D4:51:ASP:HA	2.34	0.43
50:D5:15:ARG:HA	50:D5:18:ALA:HB3	1.99	0.43
1:AA:246:A:O2'	1:AA:247:G:P	2.76	0.43
1:AA:394:G:H2'	1:AA:395:C:H6	1.82	0.43
1:AA:518:C:H2'	1:AA:530:G:C8	2.53	0.43
1:AA:674:G:H2'	1:AA:675:A:C8	2.50	0.43
1:AA:689:C:P	11:AN:46:GLY:HA3	2.58	0.43
1:AA:981:U:H5'	14:AQ:21:TYR:CE1	2.53	0.43
1:AA:1130:A:N6	1:AA:1144:G:N2	2.66	0.43
1:AA:1232:U:H2'	1:AA:1233:G:O4'	2.18	0.43
1:AA:1324:A:H4'	1:AA:1362:C:O3'	2.17	0.43
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.18	0.43
2:AE:106:LYS:O	2:AE:110:GLN:HG3	2.18	0.43
3:AF:54:ARG:HB2	3:AF:69:HIS:ND1	2.32	0.43
3:AF:134:ILE:HG22	3:AF:168:ALA:HB3	2.00	0.43
6:AI:91:VAL:HG11	18:AU:72:ARG:NH2	2.33	0.43
7:AJ:77:SER:HA	7:AJ:86:GLN:HA	1.99	0.43
7:AJ:79:ARG:HG3	7:AJ:79:ARG:NH1	2.29	0.43
9:AL:48:GLU:N	9:AL:49:PRO:CD	2.81	0.43
15:AR:38:ARG:O	15:AR:39:LEU:C	2.60	0.43
24:BA:288:C:C2'	24:BA:289:A:H8	2.27	0.43
24:BA:459:U:H4'	52:B7:40:TRP:CZ3	2.52	0.43
24:BA:530:G:O2'	24:BA:532:A:C8	2.70	0.43
24:BA:803:U:O2'	24:BA:804:A:H5'	2.18	0.43
24:BA:826:U:H2'	24:BA:828:U:O4'	2.18	0.43
24:BA:1001:A:H2'	24:BA:1002:G:C5'	2.48	0.43
24:BA:1020:A:N1	24:BA:1141:U:H2'	2.34	0.43
24:BA:1024:G:OP2	24:BA:1026:U:OP1	2.36	0.43
24:BA:1026:U:C6	24:BA:1026:U:H3'	2.53	0.43
24:BA:1047:G:H2'	24:BA:1110:G:H22	1.82	0.43
24:BA:1225:C:H5"	40:B2:85:LYS:HE2	2.01	0.43
24:BA:1403:C:H5"	24:BA:1471:A:C1'	2.32	0.43
24:BA:1406:U:H2'	24:BA:1407:C:C6	2.53	0.43
24:BA:1463:C:H2'	24:BA:1464:C:C6	2.53	0.43
24:BA:1517:G:H2'	24:BA:1518:C:C6	2.53	0.43
24:BA:1517:G:C4	24:BA:1518:C:C5	3.06	0.43
24:BA:1537:C:C2'	24:BA:1538:G:OP2	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1537:C:H2'	24:BA:1538:G:OP2	2.18	0.43
24:BA:1652:A:O2'	24:BA:1653:G:H5'	2.18	0.43
24:BA:2820:A:O5'	36:B0:4:LEU:HD22	2.18	0.43
24:BA:2839:G:H4'	36:B0:49:ASP:CB	2.49	0.43
25:BB:40:U:O2	25:BB:45:A:N6	2.49	0.43
26:BD:131:LEU:HD12	26:BD:131:LEU:N	2.32	0.43
27:BE:179:GLU:O	27:BE:180:ASN:HB2	2.19	0.43
28:BF:1:MET:O	28:BF:2:LYS:C	2.61	0.43
29:BG:67:LYS:CD	49:B4:5:ILE:HG21	2.47	0.43
29:BG:141:PHE:HE2	29:BG:155:MET:HE3	1.82	0.43
29:BG:159:VAL:O	29:BG:159:VAL:HG13	2.17	0.43
31:BK:62:LYS:C	31:BK:62:LYS:CD	2.90	0.43
32:BM:46:VAL:O	32:BM:47:ALA:CB	2.63	0.43
33:BN:13:ASN:ND2	33:BN:97:ARG:HB2	2.33	0.43
33:BN:86:ILE:HD12	33:BN:86:ILE:H	1.82	0.43
33:BN:98:VAL:O	33:BN:119:PRO:HD3	2.18	0.43
41:BS:20:VAL:O	41:BS:23:LEU:HB3	2.18	0.43
41:BS:70:TYR:H	41:BS:70:TYR:HD2	1.66	0.43
44:BV:9:TYR:O	44:BV:10:ARG:CB	2.64	0.43
44:BV:14:LYS:O	44:BV:18:LEU:HD13	2.18	0.43
44:BV:145:GLU:HG2	44:BV:146:ILE:HG12	2.00	0.43
45:B3:49:LYS:O	45:B3:50:ASN:CB	2.63	0.43
1:CA:64:G:N2	1:CA:68:G:O6	2.28	0.43
1:CA:338:A:C6	1:CA:339:C:C4	3.06	0.43
1:CA:345:C:H4'	1:CA:346:G:C2	2.54	0.43
1:CA:730:G:C5	1:CA:731:G:H1'	2.52	0.43
1:CA:779:C:H4'	11:CN:121:PRO:O	2.18	0.43
1:CA:1157:A:N6	1:CA:1180:A:C5	2.87	0.43
2:CE:115:LEU:HD21	2:CE:153:ARG:HD3	2.00	0.43
2:CE:162:ILE:O	2:CE:185:ILE:HG13	2.18	0.43
2:CE:178:ARG:HH21	8:CK:74:PRO:CB	2.21	0.43
2:CE:204:ASN:ND2	2:CE:204:ASN:C	2.76	0.43
3:CF:27:LYS:NZ	3:CF:27:LYS:HB3	2.34	0.43
3:CF:69:HIS:N	3:CF:69:HIS:CD2	2.86	0.43
4:CG:71:SER:O	4:CG:72:GLU:C	2.60	0.43
4:CG:128:VAL:C	4:CG:130:GLY:N	2.76	0.43
5:CH:67:VAL:HG22	5:CH:68:GLU:N	2.33	0.43
11:CN:88:GLY:O	11:CN:89:ALA:C	2.61	0.43
11:CN:108:ILE:HG21	18:CU:88:LYS:OXT	2.19	0.43
15:CR:58:MET:O	15:CR:59:MET:C	2.61	0.43
19:CV:5:LEU:HD21	49:D4:66:SER:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CW:50:GLU:O	20:CW:52:ALA:N	2.51	0.43
24:DA:7:G:O2'	24:DA:8:A:H5'	2.19	0.43
24:DA:301:G:O2'	24:DA:302:C:H6	2.01	0.43
24:DA:452:G:N3	24:DA:457:A:H2	2.16	0.43
24:DA:732:C:C2'	24:DA:733:G:H5'	2.48	0.43
24:DA:814:C:O2'	24:DA:815:C:H5'	2.19	0.43
24:DA:962:G:O2'	24:DA:963:U:H5'	2.17	0.43
24:DA:1061:U:H5'	24:DA:1070:A:O2'	2.18	0.43
24:DA:1083:U:O2'	24:DA:1085:A:C5'	2.65	0.43
24:DA:1265:A:H2	24:DA:1266:G:N2	2.16	0.43
24:DA:1754:C:H2'	24:DA:1755:A:C8	2.53	0.43
24:DA:1951:U:O2	24:DA:1953:A:H8	2.01	0.43
24:DA:1971:A:C4	26:DD:241:PRO:HD3	2.53	0.43
24:DA:1983:C:H4'	24:DA:2606:C:H4'	2.00	0.43
24:DA:2126:A:H4'	24:DA:2127:G:O5'	2.18	0.43
24:DA:2273:A:C2'	24:DA:2274:A:H5'	2.48	0.43
24:DA:2490:G:H5"	24:DA:2491:U:OP1	2.18	0.43
24:DA:2698:U:H2'	24:DA:2699:C:H6	1.77	0.43
24:DA:2737:G:H2'	24:DA:2738:A:C8	2.53	0.43
26:DD:166:GLN:CA	26:DD:166:GLN:NE2	2.78	0.43
27:DE:2:LYS:HG2	27:DE:95:ILE:HG22	1.99	0.43
27:DE:3:GLY:CA	27:DE:81:ILE:HG21	2.49	0.43
29:DG:67:LYS:CE	49:D4:6:HIS:NE2	2.74	0.43
30:DH:35:VAL:CG2	30:DH:75:ALA:HB2	2.48	0.43
30:DH:137:ASP:OD1	30:DH:138:LYS:N	2.51	0.43
31:DK:79:ILE:CB	31:DK:142:VAL:HA	2.42	0.43
32:DM:17:ASP:O	32:DM:55:VAL:O	2.34	0.43
35:DP:80:GLU:C	35:DP:81:VAL:CG1	2.89	0.43
36:D0:33:ARG:HA	36:D0:114:VAL:O	2.18	0.43
36:D0:74:LYS:O	36:D0:76:VAL:N	2.45	0.43
38:DR:118:ARG:O	38:DR:119:LYS:C	2.60	0.43
41:DS:111:HIS:CG	41:DS:112:GLY:H	2.37	0.43
43:DU:15:VAL:HB	43:DU:20:TYR:O	2.17	0.43
48:DX:39:ASP:O	48:DX:39:ASP:CG	2.62	0.43
49:D4:15:ILE:N	49:D4:15:ILE:CD1	2.78	0.43
53:D8:40:GLU:O	53:D8:43:GLN:N	2.50	0.43
53:D8:58:ILE:O	53:D8:61:LEU:CD1	2.67	0.43
1:AA:69:G:C2	1:AA:73:G:N7	2.86	0.43
1:AA:737:A:H1'	6:AI:73:ASN:OD1	2.18	0.43
1:AA:953:G:H2'	1:AA:954:G:O4'	2.17	0.43
1:AA:1055:A:O2'	3:AF:156:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1056:U:O4	1:AA:1200:C:C6	2.71	0.43
1:AA:1067:A:N3	1:AA:1068:G:C1'	2.81	0.43
1:AA:1151:A:H2'	1:AA:1152:A:H8	1.84	0.43
1:AA:1243:C:H5"	21:AX:8:THR:HG21	2.00	0.43
1:AA:1281:U:O3'	1:AA:1282:C:C6	2.71	0.43
2:AE:98:LEU:HB2	2:AE:101:MET:CE	2.42	0.43
3:AF:21:ARG:NH1	3:AF:21:ARG:CB	2.63	0.43
7:AJ:76:ARG:HD3	7:AJ:78:ARG:CZ	2.49	0.43
8:AK:21:LYS:O	8:AK:63:LEU:HD23	2.18	0.43
10:AM:82:ILE:O	10:AM:86:MET:CB	2.66	0.43
12:AO:53:ARG:HB3	12:AO:93:LEU:HD11	2.01	0.43
17:AT:87:LYS:C	17:AT:91:ARG:HD3	2.44	0.43
20:AW:54:LYS:HA	20:AW:57:ARG:CZ	2.48	0.43
22:AD:5:G:C2'	22:AD:6:G:C5'	2.93	0.43
22:AD:56:C:H2'	22:AD:57:A:C5'	2.27	0.43
24:BA:11:G:H2'	24:BA:12:U:H5'	2.00	0.43
24:BA:225:A:O2'	24:BA:257:A:H4'	2.18	0.43
24:BA:580:C:H2'	24:BA:581:C:H6	1.83	0.43
24:BA:627:A:N6	34:BO:116:GLY:HA2	2.34	0.43
24:BA:1160:G:C6	24:BA:1161:C:C4	3.07	0.43
24:BA:1579:A:H2'	24:BA:1580:A:C8	2.53	0.43
24:BA:2070:G:H2'	24:BA:2071:A:C8	2.52	0.43
24:BA:2311:A:H2'	24:BA:2312:U:C6	2.51	0.43
24:BA:2791:C:C2	24:BA:2792:G:N7	2.86	0.43
24:BA:2875:C:O2'	38:BR:5:ALA:CB	2.64	0.43
25:BB:53:A:H8	25:BB:53:A:O5'	2.02	0.43
28:BF:124:LEU:O	28:BF:126:VAL:HG13	2.17	0.43
28:BF:166:ALA:C	28:BF:168:ARG:H	2.25	0.43
30:BH:37:VAL:O	30:BH:38:SER:C	2.61	0.43
30:BH:69:ARG:NH1	30:BH:73:ALA:HB2	2.34	0.43
30:BH:73:ALA:O	30:BH:76:VAL:HB	2.18	0.43
31:BK:47:LEU:C	31:BK:49:ALA:N	2.76	0.43
31:BK:97:ILE:HG13	31:BK:140:LEU:CD2	2.49	0.43
32:BM:39:ARG:NH2	32:BM:41:ASP:HB3	2.32	0.43
35:BP:141:GLN:CD	44:BV:73:GLN:HB3	2.43	0.43
36:B0:39:PRO:O	36:B0:41:ALA:N	2.51	0.43
37:BQ:96:GLY:O	37:BQ:97:ARG:C	2.60	0.43
38:BR:110:ILE:CG2	38:BR:111:ARG:N	2.81	0.43
38:BR:118:ARG:HA	38:BR:121:ILE:HD12	1.99	0.43
38:BR:121:ILE:C	38:BR:123:GLN:N	2.75	0.43
38:BR:124:ASP:O	38:BR:126:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:59:VAL:HA	41:BS:64:MET:N	2.30	0.43
41:BS:59:VAL:O	41:BS:63:ASP:HA	2.18	0.43
43:BU:67:LEU:HD11	43:BU:71:LYS:CE	2.48	0.43
45:B3:43:THR:O	45:B3:43:THR:CG2	2.66	0.43
46:BZ:56:GLN:N	46:BZ:56:GLN:CD	2.77	0.43
49:B4:41:PRO:O	49:B4:42:PHE:O	2.37	0.43
49:B4:66:SER:C	49:B4:68:ARG:N	2.74	0.43
53:B8:6:THR:HG21	53:B8:63:PRO:CG	2.48	0.43
1:CA:95:G:H2'	1:CA:96:G:H8	1.83	0.43
1:CA:95:G:C2'	1:CA:96:G:H5"	2.49	0.43
1:CA:113:G:H2'	1:CA:114:U:O4'	2.18	0.43
1:CA:191:G:N3	20:CW:105:SER:HB3	2.33	0.43
1:CA:976:G:H8	1:CA:1358:U:H2'	1.84	0.43
1:CA:1026:G:O6	1:CA:1036:G:C2	2.71	0.43
1:CA:1237:C:C4'	1:CA:1334:G:H21	2.31	0.43
1:CA:1349:A:H2'	1:CA:1350:A:C8	2.53	0.43
4:CG:60:GLU:HG2	4:CG:202:LEU:HD12	2.00	0.43
7:CJ:122:HIS:HA	7:CJ:125:MET:HB2	2.00	0.43
7:CJ:148:ASN:O	7:CJ:150:ALA:N	2.51	0.43
8:CK:21:LYS:O	8:CK:65:TYR:OH	2.36	0.43
13:CP:39:ILE:HD12	13:CP:56:LEU:HD23	1.99	0.43
16:CS:21:VAL:HG23	16:CS:34:GLU:N	2.34	0.43
18:CU:82:THR:CG2	18:CU:83:GLU:N	2.79	0.43
24:DA:275:G:O2'	24:DA:276:A:C8	2.72	0.43
24:DA:301:G:C6	24:DA:317:G:C5	3.07	0.43
24:DA:531:C:C5	24:DA:2035:G:C2	3.07	0.43
24:DA:702:G:H2'	24:DA:703:U:O5'	2.19	0.43
24:DA:729:G:H5'	24:DA:730:C:H5"	2.00	0.43
24:DA:1012:U:H3	32:DM:25:ARG:HH11	1.66	0.43
24:DA:1537:C:N4	24:DA:1538:G:C6	2.86	0.43
24:DA:1932:A:C2	24:DA:1969:A:C6	3.07	0.43
24:DA:2027:G:C5	24:DA:2028:U:C5	3.07	0.43
24:DA:2035:G:C4'	24:DA:2036:C:OP2	2.66	0.43
24:DA:2141:G:H2'	24:DA:2142:C:H6	1.84	0.43
24:DA:2257:U:H2'	24:DA:2258:C:C6	2.53	0.43
24:DA:2258:C:H4'	24:DA:2259:G:OP2	2.18	0.43
24:DA:2635:C:C5'	27:DE:77:ILE:HD13	2.49	0.43
24:DA:2791:C:C2	24:DA:2792:G:N7	2.86	0.43
26:DD:172:TYR:HD1	26:DD:185:VAL:C	2.26	0.43
27:DE:13:ARG:HH11	27:DE:13:ARG:HB2	1.81	0.43
29:DG:136:ARG:O	29:DG:154:GLY:CA	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:92:ILE:CD1	30:DH:160:LYS:HD3	2.48	0.43
30:DH:149:ARG:HA	30:DH:162:ILE:HG21	1.99	0.43
31:DK:65:ALA:CA	31:DK:67:ARG:HH21	2.29	0.43
31:DK:68:LEU:HA	31:DK:71:ILE:HG22	1.99	0.43
34:DO:19:VAL:HG22	34:DO:21:ARG:H	1.83	0.43
35:DP:21:THR:HB	35:DP:22:LYS:H	1.42	0.43
37:DQ:14:VAL:CG1	37:DQ:15:ARG:N	2.81	0.43
37:DQ:38:GLN:CG	37:DQ:47:THR:HG21	2.48	0.43
41:DS:50:VAL:O	41:DS:53:SER:N	2.50	0.43
43:DU:84:ARG:HD3	43:DU:86:ARG:HH11	1.82	0.43
43:DU:95:LYS:HB2	43:DU:99:CYS:O	2.18	0.43
46:DZ:44:PRO:O	46:DZ:46:LEU:N	2.51	0.43
46:DZ:60:PHE:HZ	46:DZ:90:ILE:HG21	1.82	0.43
49:D4:43:TYR:O	49:D4:46:GLN:HA	2.19	0.43
49:D4:59:PHE:CE1	49:D4:70:GLY:N	2.87	0.43
51:D6:20:ASN:O	51:D6:21:TYR:CG	2.71	0.43
52:D7:17:GLY:O	52:D7:20:ALA:HB3	2.18	0.43
1:AA:265:G:H2'	1:AA:267:C:H5	1.82	0.43
1:AA:644:G:C5	1:AA:645:C:C5	3.07	0.43
1:AA:687:A:O2'	1:AA:688:G:P	2.77	0.43
1:AA:709:G:O2'	1:AA:710:G:H5'	2.16	0.43
1:AA:726:C:O2'	1:AA:727:G:H5'	2.18	0.43
1:AA:744:C:O2'	1:AA:745:C:H5'	2.18	0.43
1:AA:881:G:OP2	12:AO:12:ARG:NH2	2.52	0.43
1:AA:923:A:P	5:AH:21:ALA:HB2	2.59	0.43
1:AA:1158:C:C2	1:AA:1160:G:C8	3.06	0.43
1:AA:1227:A:C5	13:AP:117:VAL:HG21	2.53	0.43
1:AA:1347:G:OP2	9:AL:107:ARG:HG2	2.18	0.43
2:AE:84:GLU:HA	2:AE:84:GLU:OE1	2.18	0.43
2:AE:91:PRO:CA	2:AE:154:LEU:HD11	2.43	0.43
3:AF:179:ARG:O	3:AF:179:ARG:HG3	2.19	0.43
8:AK:40:ALA:HB2	8:AK:45:ILE:HD11	1.99	0.43
10:AM:33:GLN:H	10:AM:75:ILE:CD1	2.32	0.43
12:AO:125:PRO:O	12:AO:126:LYS:O	2.35	0.43
13:AP:15:VAL:N	13:AP:45:VAL:CG2	2.82	0.43
13:AP:82:MET:SD	13:AP:83:ASP:N	2.92	0.43
19:AV:20:LEU:HD23	19:AV:44:MET:HE1	2.00	0.43
19:AV:29:ARG:O	19:AV:31:ILE:HG22	2.18	0.43
20:AW:36:LEU:HD13	20:AW:55:ILE:HG23	2.00	0.43
24:BA:257:A:H2'	24:BA:258:G:O4'	2.18	0.43
24:BA:301:G:O2'	24:BA:302:C:H6	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:691:C:H2'	24:BA:692:C:C6	2.53	0.43
24:BA:874:G:O2'	24:BA:875:G:H5'	2.19	0.43
24:BA:883:G:O2'	24:BA:884:C:OP1	2.32	0.43
24:BA:1146:C:O2'	24:BA:1147:C:H5'	2.18	0.43
24:BA:1150:C:O2'	24:BA:1151:G:H5'	2.17	0.43
24:BA:1473:G:C5	24:BA:1474:C:C5	3.06	0.43
24:BA:1856:G:C2'	24:BA:1857:G:H5'	2.48	0.43
24:BA:1893:C:C5	24:BA:1894:C:C5	3.07	0.43
24:BA:2087:G:C2'	24:BA:2088:G:H5'	2.48	0.43
24:BA:2147:G:H3'	24:BA:2147:G:H8	1.84	0.43
24:BA:2689:U:H5"	24:BA:2690:C:H5'	2.00	0.43
24:BA:2707:G:H2'	24:BA:2708:G:H8	1.81	0.43
24:BA:2839:G:H4'	36:B0:49:ASP:OD2	2.19	0.43
27:BE:24:THR:HG21	27:BE:188:VAL:HG12	2.00	0.43
27:BE:204:ALA:O	27:BE:205:ALA:CB	2.66	0.43
28:BF:110:LEU:C	28:BF:110:LEU:CD2	2.91	0.43
29:BG:114:ILE:CG2	29:BG:117:PHE:HB2	2.49	0.43
29:BG:120:LEU:N	29:BG:120:LEU:HD22	2.34	0.43
30:BH:76:VAL:C	30:BH:78:GLY:N	2.75	0.43
33:BN:26:LYS:O	33:BN:27:GLY:O	2.37	0.43
34:BO:16:ARG:HE	34:BO:16:ARG:H	1.66	0.43
35:BP:141:GLN:O	44:BV:76:LEU:HD23	2.18	0.43
39:B1:90:VAL:O	39:B1:92:ARG:N	2.51	0.43
39:B1:91:ASP:O	39:B1:92:ARG:O	2.37	0.43
41:BS:17:VAL:HG12	41:BS:21:VAL:HG23	2.01	0.43
41:BS:75:TYR:HE2	41:BS:104:THR:CB	2.30	0.43
43:BU:68:HIS:HB3	43:BU:71:LYS:HG3	2.01	0.43
44:BV:150:LEU:HG	44:BV:171:ILE:CG2	2.42	0.43
46:BZ:72:GLU:HA	46:BZ:72:GLU:OE2	2.18	0.43
49:B4:51:ASP:O	49:B4:52:THR:C	2.61	0.43
53:B8:37:SER:O	53:B8:38:GLY:C	2.60	0.43
1:CA:440:A:C8	1:CA:442:C:C5	3.06	0.43
1:CA:501:C:H1'	1:CA:549:C:H1'	2.01	0.43
1:CA:889:A:O2'	1:CA:890:G:P	2.76	0.43
1:CA:1004:A:O4'	1:CA:1036:G:O6	2.35	0.43
1:CA:1256:A:N1	1:CA:1277:C:H3'	2.33	0.43
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.82	0.43
2:CE:95:GLN:HE21	2:CE:147:LYS:CE	2.28	0.43
6:CI:72:VAL:HG23	6:CI:90:VAL:HG11	1.98	0.43
6:CI:73:ASN:O	6:CI:76:ALA:HB3	2.19	0.43
6:CI:76:ALA:HB1	6:CI:80:ARG:HH21	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CI:85:VAL:HG12	6:CI:85:VAL:O	2.18	0.43
6:CI:91:VAL:CG1	18:CU:72:ARG:NH1	2.82	0.43
8:CK:118:VAL:O	8:CK:119:LEU:HD23	2.17	0.43
9:CL:43:ALA:O	9:CL:45:ALA:N	2.51	0.43
9:CL:100:GLY:C	9:CL:102:LEU:H	2.26	0.43
10:CM:90:LEU:N	10:CM:91:PRO:CD	2.81	0.43
12:CO:120:TYR:O	12:CO:121:GLY:O	2.36	0.43
13:CP:87:TYR:HA	13:CP:90:LEU:HG	2.01	0.43
13:CP:90:LEU:HD12	13:CP:91:ARG:N	2.33	0.43
15:CR:17:ARG:HD3	15:CR:26:GLU:HG3	2.00	0.43
17:CT:13:ASP:O	17:CT:15:MET:N	2.51	0.43
18:CU:63:GLN:O	18:CU:66:LEU:HB3	2.18	0.43
18:CU:67:ALA:O	18:CU:68:LYS:C	2.62	0.43
22:CD:20:U:C3'	22:CD:21:A:C5'	2.91	0.43
24:DA:164:U:P	24:DA:165:U:C5	3.12	0.43
24:DA:554:U:O2'	24:DA:556:G:O5'	2.35	0.43
24:DA:769:G:O2'	24:DA:770:G:H5'	2.18	0.43
24:DA:847:U:O4	24:DA:933:A:N1	2.52	0.43
24:DA:871:U:H4'	35:DP:69:PHE:CE2	2.54	0.43
24:DA:910:A:C6	35:DP:13:GLN:HG3	2.53	0.43
24:DA:2444:G:OP2	28:DF:68:LYS:HE3	2.19	0.43
24:DA:2870:C:H2'	24:DA:2871:C:C5'	2.48	0.43
26:DD:43:ARG:CZ	26:DD:49:ILE:HG21	2.49	0.43
26:DD:44:ASN:HB3	26:DD:49:ILE:CG2	2.47	0.43
26:DD:181:GLU:HA	26:DD:272:ALA:CB	2.38	0.43
27:DE:3:GLY:HA3	27:DE:81:ILE:CD1	2.47	0.43
31:DK:35:LEU:O	31:DK:35:LEU:HD12	2.19	0.43
31:DK:68:LEU:HA	31:DK:71:ILE:HG23	1.98	0.43
36:D0:51:LEU:HD13	36:D0:66:VAL:HG22	2.01	0.43
37:DQ:88:ASP:CG	37:DQ:89:ARG:N	2.77	0.43
41:DS:17:VAL:C	41:DS:19:LEU:N	2.76	0.43
43:DU:6:HIS:ND1	43:DU:6:HIS:N	2.66	0.43
43:DU:26:LYS:O	43:DU:27:VAL:C	2.62	0.43
44:DV:103:ARG:HB3	44:DV:138:GLU:HG3	2.00	0.43
47:DW:28:LYS:CE	47:DW:56:GLN:NE2	2.82	0.43
47:DW:62:THR:O	47:DW:65:ASN:HB2	2.18	0.43
49:D4:26:SER:C	49:D4:27:THR:O	2.58	0.43
51:D6:11:LEU:HD12	51:D6:51:GLU:HG3	2.00	0.43
22:CB:14:A:C2'	22:CB:15:G:H5'	2.48	0.43
1:AA:15:G:H1'	5:AH:19:MET:HE2	2.01	0.43
1:AA:186(B):C:H2'	1:AA:186(C):G:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:324:G:OP1	20:AW:22:ARG:HD2	2.19	0.43
1:AA:373:A:C2	1:AA:482:A:N6	2.86	0.43
1:AA:410:G:C4'	1:AA:411:A:OP1	2.66	0.43
1:AA:425:G:O2'	4:AG:45:GLN:NE2	2.51	0.43
1:AA:518:C:H5'	1:AA:519:C:H6	1.83	0.43
1:AA:537:G:H2'	1:AA:538:G:H8	1.83	0.43
1:AA:736:C:OP1	18:AU:68:LYS:NZ	2.48	0.43
1:AA:765:G:H1	1:AA:812:C:H2'	1.83	0.43
1:AA:778:G:O2'	1:AA:779:C:H5'	2.18	0.43
1:AA:803:G:H2'	1:AA:804:U:C6	2.53	0.43
1:AA:849:C:H2'	1:AA:850:U:O4'	2.18	0.43
1:AA:878:G:H5"	8:AK:89:PRO:HG2	1.99	0.43
1:AA:1054:C:H6	1:AA:1054:C:H5"	1.84	0.43
1:AA:1503:A:H61	23:A1:12:A:N6	2.14	0.43
1:AA:1541:U:H6	1:AA:1541:U:C3'	2.23	0.43
3:AF:63:ASN:O	3:AF:64:VAL:CG2	2.67	0.43
4:AG:25:ARG:C	4:AG:27:TYR:H	2.27	0.43
4:AG:32:ALA:O	4:AG:33:MET:O	2.36	0.43
5:AH:9:LYS:HD2	5:AH:9:LYS:HA	1.82	0.43
5:AH:139:LEU:HA	5:AH:142:LEU:HD11	2.01	0.43
7:AJ:85:TYR:CE2	7:AJ:154:TYR:CE1	3.06	0.43
7:AJ:141:VAL:O	7:AJ:144:MET:HB2	2.18	0.43
8:AK:23:SER:HA	8:AK:63:LEU:HD22	1.99	0.43
9:AL:31:GLN:HB3	9:AL:35:GLU:HB3	2.01	0.43
11:AN:21:ILE:HD12	11:AN:84:VAL:HG12	2.01	0.43
12:AO:70:ILE:CD1	12:AO:77:LEU:HD12	2.47	0.43
16:AS:15:PRO:O	16:AS:16:HIS:ND1	2.52	0.43
18:AU:76:LEU:C	18:AU:78:LEU:H	2.26	0.43
20:AW:53:LEU:HD22	20:AW:56:MET:CE	2.49	0.43
24:BA:27:G:N2	24:BA:513:A:OP2	2.52	0.43
24:BA:265:A:O2'	24:BA:266:G:O5'	2.35	0.43
24:BA:371:A:H1'	24:BA:373:U:C6	2.53	0.43
24:BA:455:C:N3	24:BA:472:A:H2'	2.34	0.43
24:BA:481:G:H1'	24:BA:506:G:H21	1.84	0.43
24:BA:673:C:C2'	24:BA:674:G:H5'	2.48	0.43
24:BA:679:C:O2'	24:BA:680:G:H5'	2.19	0.43
24:BA:852:G:H2'	24:BA:853:G:O4'	2.19	0.43
24:BA:976:C:H2'	24:BA:976:C:O2	2.19	0.43
24:BA:1045:A:C2'	24:BA:1046:A:OP2	2.66	0.43
24:BA:1174:A:H5'	24:BA:1175:U:OP2	2.19	0.43
24:BA:1668:A:H4'	24:BA:1669:A:O5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1688:U:H5'	24:BA:1689:A:OP1	2.19	0.43
24:BA:2306:C:N3	29:BG:45:GLU:OE2	2.51	0.43
24:BA:2377:A:H4'	37:BQ:111:GLU:O	2.18	0.43
24:BA:2389:G:H5"	24:BA:2390:U:O4'	2.19	0.43
24:BA:2615:U:H2'	24:BA:2616:C:H6	1.83	0.43
24:BA:2635:C:C5'	27:BE:77:ILE:HG22	2.49	0.43
24:BA:2698:U:H2'	24:BA:2699:C:C6	2.54	0.43
26:BD:21:PHE:O	26:BD:24:ILE:HB	2.18	0.43
28:BF:53:THR:O	28:BF:54:ARG:C	2.61	0.43
28:BF:153:SER:HB2	28:BF:190:GLU:H	1.83	0.43
28:BF:162:LEU:H	28:BF:162:LEU:CD1	2.31	0.43
29:BG:87:PRO:HG2	29:BG:87:PRO:O	2.18	0.43
29:BG:151:ALA:C	29:BG:153:ARG:H	2.26	0.43
30:BH:107:VAL:HG21	30:BH:153:LYS:CG	2.49	0.43
33:BN:103:ALA:C	33:BN:105:GLU:N	2.77	0.43
39:B1:91:ASP:OD2	39:B1:96:ALA:CB	2.66	0.43
40:B2:35:LEU:HD23	40:B2:35:LEU:O	2.17	0.43
44:BV:48:PHE:CE2	44:BV:71:VAL:HG11	2.50	0.43
45:B3:75:LEU:HD23	45:B3:75:LEU:N	2.33	0.43
47:BW:48:HIS:CE1	47:BW:49:LYS:HG3	2.54	0.43
52:B7:43:THR:HG23	52:B7:44:PRO:HD2	2.00	0.43
1:CA:186:C:H4'	20:CW:82:SER:HB3	2.01	0.43
1:CA:191(C):G:H2'	1:CA:191(D):U:C6	2.54	0.43
1:CA:191:G:H1'	20:CW:105:SER:CB	2.48	0.43
1:CA:406:G:N2	1:CA:437:U:O2	2.52	0.43
1:CA:489:C:OP1	4:CG:132:ARG:NH2	2.51	0.43
1:CA:543:C:OP1	4:CG:14:ARG:NH2	2.49	0.43
1:CA:701:C:H1'	1:CA:703:G:C5	2.53	0.43
1:CA:742:G:O2'	1:CA:743:U:H5'	2.19	0.43
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.83	0.43
1:CA:1133:G:C6	1:CA:1142:G:C6	3.06	0.43
1:CA:1152:A:OP1	10:CM:68:HIS:NE2	2.50	0.43
1:CA:1542:G:H5"	18:CU:19:LYS:N	2.33	0.43
2:CE:29:ALA:O	2:CE:32:ILE:HG22	2.17	0.43
3:CF:6:HIS:C	3:CF:8:ILE:N	2.76	0.43
4:CG:122:ARG:HA	4:CG:134:ASP:HB2	2.00	0.43
5:CH:64:ARG:HH11	5:CH:64:ARG:HG3	1.81	0.43
7:CJ:88:PRO:HB3	7:CJ:145:ALA:HA	2.01	0.43
9:CL:41:VAL:O	9:CL:41:VAL:HG12	2.18	0.43
10:CM:30:SER:OG	10:CM:81:THR:HG22	2.19	0.43
11:CN:75:TYR:N	11:CN:75:TYR:HD1	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CO:76:ASN:O	12:CO:76:ASN:CG	2.61	0.43
13:CP:107:ALA:O	13:CP:108:ARG:C	2.62	0.43
15:CR:83:GLU:HA	15:CR:83:GLU:OE1	2.19	0.43
16:CS:39:TYR:CZ	16:CS:41:PRO:HB3	2.52	0.43
19:CV:36:ARG:NH1	19:CV:52:TYR:O	2.51	0.43
22:CC:14:A:C2	22:CC:15:G:H1'	2.53	0.43
22:CD:21:A:N1	22:CD:48:C:H1'	2.33	0.43
24:DA:17:G:H2'	24:DA:18:C:H6	1.84	0.43
24:DA:405:U:H5"	24:DA:406:G:OP2	2.19	0.43
24:DA:440:G:H2'	24:DA:441:U:C6	2.53	0.43
24:DA:1528:A:H2'	24:DA:1529:A:O4'	2.19	0.43
24:DA:1694:C:C2'	24:DA:1695:G:OP2	2.67	0.43
24:DA:1709:U:H2'	24:DA:1710:C:H6	1.81	0.43
24:DA:1827:C:O2'	24:DA:1828:G:H5'	2.18	0.43
24:DA:1916:A:H3'	24:DA:1917:U:C6	2.53	0.43
24:DA:1930:G:H2'	24:DA:1968:G:C6	2.53	0.43
24:DA:1937:A:O2'	24:DA:1938:A:P	2.77	0.43
24:DA:1945:G:O2'	24:DA:1946:U:H5'	2.17	0.43
24:DA:2073:C:H5'	26:DD:229:VAL:HG22	1.99	0.43
24:DA:2298:A:N6	24:DA:2318:G:H8	2.06	0.43
24:DA:2725:A:O2'	24:DA:2726:U:P	2.77	0.43
24:DA:2832:U:C2'	24:DA:2833:G:OP2	2.66	0.43
25:DB:96:G:C6	25:DB:97:G:N7	2.86	0.43
27:DE:51:PHE:O	27:DE:74:PRO:CB	2.67	0.43
27:DE:143:ASN:ND2	27:DE:143:ASN:N	2.65	0.43
27:DE:179:GLU:CB	27:DE:181:LEU:HD23	2.24	0.43
28:DF:63:LYS:CE	28:DF:67:GLN:HB2	2.48	0.43
29:DG:114:ILE:O	29:DG:116:ASP:N	2.51	0.43
29:DG:145:THR:O	29:DG:146:TYR:HB3	2.19	0.43
31:DK:85:GLU:O	31:DK:86:THR:C	2.61	0.43
33:DN:51:ALA:O	33:DN:53:LYS:HE3	2.19	0.43
33:DN:63:VAL:O	33:DN:63:VAL:HG23	2.18	0.43
37:DQ:30:ARG:NH2	37:DQ:92:TYR:HD1	2.17	0.43
37:DQ:99:LYS:C	37:DQ:101:LEU:H	2.26	0.43
38:DR:64:ARG:HH11	38:DR:64:ARG:HG2	1.84	0.43
38:DR:114:LEU:HD23	38:DR:114:LEU:HA	1.74	0.43
39:D1:99:ALA:HA	39:D1:106:PHE:HB2	2.01	0.43
47:DW:59:ARG:O	47:DW:62:THR:HG23	2.19	0.43
52:D7:47:ARG:HB2	52:D7:48:LYS:H	1.64	0.43
53:D8:28:GLY:O	53:D8:29:LYS:C	2.61	0.43
53:D8:58:ILE:O	53:D8:61:LEU:CG	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:14:U:O2	1:AA:17:U:C5	2.72	0.43
1:AA:19:C:H5"	5:AH:86:ALA:CB	2.47	0.43
1:AA:252:U:C2	1:AA:253:U:C5	3.07	0.43
1:AA:664:G:H5'	18:AU:64:ARG:NH2	2.34	0.43
1:AA:686:U:O4	1:AA:703:G:O2'	2.36	0.43
1:AA:784:C:H4'	24:BA:1837:C:OP1	2.19	0.43
1:AA:1032(B):G:C2'	1:AA:1033:G:H5"	2.48	0.43
1:AA:1081:G:H5"	5:AH:18:ARG:HG3	2.00	0.43
1:AA:1106:G:O2'	1:AA:1107:C:H5'	2.19	0.43
1:AA:1176:A:C2'	1:AA:1177:G:H5'	2.44	0.43
1:AA:1216:G:H5"	14:AQ:5:ALA:CB	2.48	0.43
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.82	0.43
1:AA:1298:C:H5	7:AJ:114:ARG:HD2	1.81	0.43
1:AA:1325:C:H4'	21:AX:17:THR:CG2	2.26	0.43
1:AA:1503:A:O2'	1:AA:1504:G:P	2.76	0.43
2:AE:102:LEU:O	2:AE:105:PHE:N	2.51	0.43
2:AE:111:ARG:HA	2:AE:111:ARG:HD3	1.80	0.43
2:AE:217:ARG:HA	2:AE:220:ASP:HB2	2.00	0.43
4:AG:25:ARG:HH11	4:AG:25:ARG:CG	2.30	0.43
8:AK:36:LEU:O	8:AK:37:ARG:C	2.61	0.43
8:AK:99:GLU:O	8:AK:100:ILE:C	2.62	0.43
9:AL:117:HIS:HB2	9:AL:121:ARG:O	2.19	0.43
11:AN:59:TYR:OH	11:AN:63:LEU:HD11	2.18	0.43
12:AO:54:LYS:NZ	12:AO:75:HIS:HE1	2.16	0.43
12:AO:100:ILE:CG2	12:AO:101:VAL:N	2.81	0.43
13:AP:67:GLU:O	13:AP:68:GLY:C	2.61	0.43
15:AR:18:PHE:CD1	15:AR:18:PHE:C	2.96	0.43
15:AR:71:GLN:C	15:AR:73:GLU:N	2.76	0.43
19:AV:65:ASN:HD22	19:AV:65:ASN:HA	1.54	0.43
22:AD:53:G:C2	22:AD:54:U:C5	3.07	0.43
23:A1:13:A:C2'	23:A1:14:A:OP1	2.66	0.43
24:BA:27:G:C2'	24:BA:28:A:OP2	2.66	0.43
24:BA:532:A:O2'	24:BA:2021:C:N4	2.52	0.43
24:BA:868:U:C4	24:BA:869:G:N7	2.87	0.43
24:BA:890:A:N7	24:BA:892:G:C6	2.87	0.43
24:BA:1024:G:C6	24:BA:1025:G:C6	3.06	0.43
24:BA:1060:U:C1'	24:BA:1062:G:H5'	2.49	0.43
24:BA:1141:U:H1'	24:BA:1142(A):A:C2	2.54	0.43
24:BA:1268:A:C2	24:BA:1269:A:H1'	2.53	0.43
24:BA:1882:C:O2	24:BA:1882:C:H2'	2.19	0.43
24:BA:2018:G:H2'	24:BA:2019:A:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2123:G:H2'	24:BA:2124:G:H8	1.83	0.43
24:BA:2126:A:H4'	24:BA:2127:G:C5'	2.48	0.43
24:BA:2166:G:C2'	24:BA:2167:U:H5"	2.49	0.43
24:BA:2210:G:O2'	24:BA:2211:G:OP1	2.25	0.43
24:BA:2225:A:H4'	24:BA:2226:C:H6	1.83	0.43
24:BA:2469:A:N3	24:BA:2469:A:O4'	2.52	0.43
24:BA:2478:A:O2'	24:BA:2528:U:H1'	2.19	0.43
24:BA:2645:G:H3'	24:BA:2646:C:C5'	2.48	0.43
24:BA:2645:G:H3'	24:BA:2646:C:H5'	2.00	0.43
25:BB:3:C:O2	25:BB:3:C:H2'	2.17	0.43
25:BB:39:A:H2'	25:BB:39:A:N3	2.34	0.43
25:BB:44:G:OP1	49:B4:1:MET:HG3	2.18	0.43
27:BE:25:VAL:CG1	27:BE:181:LEU:HD12	2.48	0.43
27:BE:86:PRO:C	27:BE:88:GLY:N	2.76	0.43
28:BF:88:VAL:HG22	28:BF:89:VAL:N	2.34	0.43
29:BG:104:GLU:O	29:BG:108:ASN:N	2.45	0.43
30:BH:6:ARG:HD2	30:BH:54:ARG:NH2	2.34	0.43
30:BH:152:ARG:NE	30:BH:153:LYS:HD3	2.32	0.43
31:BK:144:VAL:C	31:BK:145:VAL:HG22	2.44	0.43
34:BO:99:LEU:CD1	34:BO:102:ARG:HH11	2.31	0.43
35:BP:116:GLU:HA	35:BP:116:GLU:OE1	2.19	0.43
37:BQ:54:LEU:O	37:BQ:55:ALA:C	2.61	0.43
38:BR:67:SER:O	38:BR:68:TYR:C	2.62	0.43
38:BR:137:LYS:HB3	38:BR:137:LYS:HZ2	1.82	0.43
39:B1:61:TRP:O	39:B1:65:ILE:HD13	2.19	0.43
39:B1:92:ARG:O	39:B1:92:ARG:CD	2.67	0.43
39:B1:95:LEU:HD12	40:B2:11:GLN:HE21	1.84	0.43
39:B1:97:ASP:C	39:B1:98:LEU:O	2.62	0.43
40:B2:98:GLU:HB3	40:B2:99:ILE:H	1.73	0.43
41:BS:50:VAL:CG2	41:BS:105:VAL:HG23	2.49	0.43
42:BT:23:GLU:HG3	42:BT:24:GLY:N	2.33	0.43
44:BV:56:VAL:CG1	44:BV:57:ILE:N	2.81	0.43
44:BV:118:GLN:HG3	44:BV:174:VAL:H	1.84	0.43
44:BV:138:GLU:N	44:BV:138:GLU:OE1	2.50	0.43
44:BV:150:LEU:HD21	44:BV:171:ILE:CG2	2.49	0.43
53:B8:52:LYS:HB2	53:B8:53:PRO:CD	2.49	0.43
1:CA:16:A:N1	1:CA:919:A:H2	2.16	0.43
1:CA:17:U:O2	1:CA:1079:G:N2	2.51	0.43
1:CA:233:C:N3	1:CA:234:C:C5	2.87	0.43
1:CA:295:C:H2'	1:CA:296:U:C6	2.53	0.43
1:CA:560:U:H4'	1:CA:561:U:H5"	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:589:C:H1'	1:CA:653:A:H61	1.83	0.43
1:CA:606:G:N2	1:CA:631:G:H8	2.17	0.43
1:CA:1074:G:H2'	1:CA:1075:C:H6	1.83	0.43
1:CA:1117:G:H5'	1:CA:1117:G:H8	1.83	0.43
1:CA:1124:G:O5'	10:CM:35:SER:HB2	2.18	0.43
1:CA:1316:G:N1	1:CA:1319:A:OP2	2.46	0.43
1:CA:1320:C:N4	1:CA:1321:C:N4	2.66	0.43
1:CA:1347:G:N2	1:CA:1374:A:OP2	2.50	0.43
2:CE:32:ILE:HD13	2:CE:190:THR:CG2	2.48	0.43
2:CE:127:ILE:HG23	2:CE:128:GLU:N	2.34	0.43
3:CF:69:HIS:HA	3:CF:104:GLN:HB2	2.00	0.43
4:CG:163:GLU:OE2	4:CG:163:GLU:HA	2.19	0.43
8:CK:6:ILE:HB	8:CK:85:ARG:HH11	1.74	0.43
8:CK:45:ILE:C	8:CK:47:GLY:N	2.76	0.43
8:CK:64:LYS:CB	8:CK:79:VAL:HG21	2.48	0.43
10:CM:8:LEU:C	10:CM:16:LEU:HD21	2.43	0.43
10:CM:70:ARG:HG3	10:CM:70:ARG:HH11	1.83	0.43
20:CW:32:ALA:O	20:CW:33:ILE:C	2.61	0.43
20:CW:44:ALA:HB1	20:CW:91:LEU:HB2	2.00	0.43
22:CD:25:C:O2'	22:CD:26:G:H5'	2.19	0.43
24:DA:80:G:C2'	24:DA:81:G:H5'	2.48	0.43
24:DA:226:G:H1'	24:DA:228:A:H61	1.84	0.43
24:DA:762:U:H4'	24:DA:763:G:O5'	2.18	0.43
24:DA:1043:C:C2	24:DA:1112:G:N2	2.87	0.43
24:DA:1046:A:H5'	24:DA:1047:G:C8	2.54	0.43
24:DA:1265:A:H1'	24:DA:1267:U:C6	2.53	0.43
24:DA:1530:G:H2'	24:DA:1531:C:H6	1.84	0.43
24:DA:1701:A:C3'	24:DA:1702:G:H5'	2.49	0.43
24:DA:2095:C:H2'	24:DA:2096:U:O4'	2.18	0.43
24:DA:2275:C:C2	35:DP:83:MET:HE3	2.53	0.43
24:DA:2420:C:O5'	24:DA:2420:C:H6	2.02	0.43
24:DA:2681:C:O2'	24:DA:2682:U:H5'	2.19	0.43
25:DB:7:G:H2'	25:DB:8:U:H5"	2.01	0.43
25:DB:40:U:H1'	25:DB:45:A:N6	2.33	0.43
27:DE:25:VAL:HG21	38:DR:8:LYS:HG3	2.00	0.43
30:DH:27:LYS:C	30:DH:27:LYS:HD2	2.44	0.43
30:DH:119:GLU:CD	30:DH:120:GLY:N	2.77	0.43
30:DH:125:VAL:CG1	30:DH:126:PRO:CG	2.94	0.43
32:DM:26:LEU:HG	32:DM:30:ILE:CD1	2.49	0.43
32:DM:30:ILE:HG22	32:DM:34:LEU:CD2	2.48	0.43
35:DP:27:VAL:HG13	35:DP:28:ALA:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:D0:54:LEU:O	36:D0:62:ALA:HB1	2.19	0.43
41:DS:65:LEU:CD1	41:DS:68:ARG:NH1	2.75	0.43
44:DV:98:MET:HE2	44:DV:99:TYR:O	2.19	0.43
44:DV:151:HIS:CE1	44:DV:168:GLU:HG3	2.54	0.43
1:AA:10:A:C2	1:AA:11:G:C5	3.07	0.43
1:AA:191:G:C2'	1:AA:192:U:H5'	2.48	0.43
1:AA:533:A:H4'	1:AA:534:U:OP1	2.18	0.43
1:AA:1061:G:C5	1:AA:1062:U:C5	3.07	0.43
1:AA:1213:A:N7	1:AA:1215:G:C5	2.87	0.43
1:AA:1216:G:H5"	14:AQ:5:ALA:HB3	2.00	0.43
1:AA:1284:C:H2'	1:AA:1285:A:H8	1.82	0.43
2:AE:44:LEU:HD12	2:AE:45:GLN:H	1.82	0.43
2:AE:141:GLU:O	2:AE:142:LEU:C	2.62	0.43
2:AE:144:ARG:O	2:AE:145:LEU:C	2.61	0.43
3:AF:56:ASP:O	3:AF:66:VAL:HA	2.18	0.43
3:AF:106:VAL:O	3:AF:107:GLN:C	2.61	0.43
3:AF:155:GLY:HA2	3:AF:164:ARG:N	2.34	0.43
3:AF:173:VAL:HG12	3:AF:175:LEU:CD2	2.49	0.43
3:AF:179:ARG:C	3:AF:206:GLU:HG3	2.44	0.43
4:AG:78:LEU:O	4:AG:79:PHE:C	2.60	0.43
9:AL:3:GLN:O	9:AL:4:TYR:CD2	2.71	0.43
9:AL:6:GLY:CA	9:AL:17:VAL:H	2.31	0.43
9:AL:32:ASP:O	9:AL:33:PHE:C	2.62	0.43
10:AM:75:ILE:O	10:AM:76:ASN:C	2.61	0.43
11:AN:96:ARG:O	11:AN:99:GLN:HB2	2.18	0.43
11:AN:122:LYS:O	11:AN:123:LYS:C	2.61	0.43
13:AP:34:LEU:HD11	13:AP:41:PRO:HB3	2.00	0.43
15:AR:29:VAL:O	15:AR:32:LEU:HB2	2.19	0.43
20:AW:50:GLU:HA	20:AW:100:ILE:HG12	1.99	0.43
22:AD:46:G:O2'	22:AD:47:U:H5"	2.19	0.43
24:BA:247:G:H4'	24:BA:386:G:C6	2.53	0.43
24:BA:251:A:H2'	24:BA:252:G:O4'	2.19	0.43
24:BA:329:G:O6	43:BU:19:LYS:CG	2.67	0.43
24:BA:608:A:N6	24:BA:609:A:C6	2.86	0.43
24:BA:751:A:C6	24:BA:789:A:C5	3.07	0.43
24:BA:797:C:OP2	28:BF:62:ARG:HG3	2.18	0.43
24:BA:820:A:H2'	24:BA:821:A:O4'	2.19	0.43
24:BA:1029:A:N6	24:BA:1125:G:O2'	2.52	0.43
24:BA:1087:G:H2'	24:BA:1089:G:O4'	2.18	0.43
24:BA:1165:U:O2'	24:BA:1166:C:H5'	2.18	0.43
24:BA:1655:A:H4'	27:BE:115:GLY:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1849:G:H2'	24:BA:1849:G:N3	2.34	0.43
24:BA:2009:G:OP1	41:BS:41:LYS:HE3	2.19	0.43
24:BA:2081:C:O2'	24:BA:2082:A:H5'	2.18	0.43
24:BA:2468:G:O2'	24:BA:2469:A:O4'	2.36	0.43
24:BA:2675:A:N6	24:BA:2732:G:O6	2.51	0.43
24:BA:2713:A:H5'	24:BA:2714:G:OP2	2.19	0.43
24:BA:2848:G:H2'	24:BA:2867:G:N2	2.33	0.43
24:BA:2851:A:O2'	36:B0:64:ARG:NH2	2.52	0.43
26:BD:30:GLU:HA	26:BD:83:GLU:OE2	2.18	0.43
28:BF:127:GLU:HB2	28:BF:196:LEU:CD1	2.41	0.43
29:BG:7:LEU:O	29:BG:7:LEU:HD23	2.18	0.43
29:BG:109:VAL:HG11	29:BG:142:PRO:HB3	2.01	0.43
30:BH:89:ILE:HD13	30:BH:89:ILE:H	1.83	0.43
31:BK:123:LEU:CD2	31:BK:143:SER:HB3	2.48	0.43
31:BK:129:THR:HG22	31:BK:137:PRO:HB3	2.00	0.43
33:BN:97:ARG:HA	33:BN:117:LEU:HD12	2.00	0.43
34:BO:135:LEU:HD13	34:BO:135:LEU:C	2.44	0.43
37:BQ:46:VAL:CG1	37:BQ:47:THR:N	2.80	0.43
37:BQ:110:LEU:O	37:BQ:111:GLU:HB2	2.19	0.43
38:BR:58:ASN:O	38:BR:58:ASN:ND2	2.51	0.43
38:BR:121:ILE:O	38:BR:124:ASP:N	2.51	0.43
44:BV:63:ASP:CG	44:BV:63:ASP:O	2.61	0.43
48:BX:39:ASP:O	48:BX:40:THR:C	2.60	0.43
49:B4:8:LYS:HE2	49:B4:8:LYS:CA	2.33	0.43
1:CA:179:A:N1	1:CA:196:A:N6	2.62	0.43
1:CA:329:A:C4	1:CA:332:G:C5	3.07	0.43
1:CA:453:A:H2'	1:CA:454:C:C6	2.53	0.43
1:CA:538:G:O2'	1:CA:539:A:H5'	2.19	0.43
1:CA:652:U:O2'	1:CA:653:A:C5'	2.67	0.43
1:CA:817:C:H4'	1:CA:818:G:OP1	2.18	0.43
1:CA:922:G:H4'	5:CH:20:GLN:HA	2.00	0.43
1:CA:957:U:O2	1:CA:960:U:C6	2.72	0.43
1:CA:1131:G:O6	1:CA:1144:G:N2	2.49	0.43
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.53	0.43
1:CA:1452:C:C4'	1:CA:1453:G:OP1	2.53	0.43
1:CA:1492:A:H4'	12:CO:47:LYS:HD3	2.00	0.43
2:CE:197:VAL:CG1	2:CE:198:ASP:N	2.82	0.43
4:CG:72:GLU:O	4:CG:73:ARG:C	2.61	0.43
4:CG:90:GLY:HA3	4:CG:204:ILE:HD11	2.00	0.43
8:CK:29:SER:O	8:CK:30:ARG:C	2.62	0.43
15:CR:10:LYS:O	15:CR:14:GLU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CC:2:G:H5'	22:CC:2:G:H8	1.82	0.43
22:CC:17:C:H2'	22:CC:17(A):C:H5	1.79	0.43
22:CD:70:G:H2'	22:CD:71:C:C5'	2.49	0.43
24:DA:271(C):U:HO2'	24:DA:271:G:P	2.42	0.43
24:DA:510:C:O2'	24:DA:511:U:H5'	2.19	0.43
24:DA:676:A:N1	24:DA:802:A:N1	2.66	0.43
24:DA:910:A:C6	24:DA:911:A:C6	3.07	0.43
24:DA:933:A:OP1	48:DX:24:LYS:NZ	2.51	0.43
24:DA:1023:U:H2'	24:DA:1024:G:C5'	2.45	0.43
24:DA:1104:C:H2'	24:DA:1105:U:C6	2.54	0.43
24:DA:1156:A:H4'	24:DA:1157:G:OP2	2.18	0.43
24:DA:1461:G:O2'	24:DA:1462:C:H5'	2.19	0.43
24:DA:1791:A:N6	24:DA:1828:G:HO2'	2.17	0.43
24:DA:1796:U:H2'	24:DA:1797:C:H6	1.81	0.43
24:DA:2330:G:C2'	24:DA:2331:G:H5'	2.49	0.43
24:DA:2743:C:H2'	24:DA:2744:G:O5'	2.19	0.43
25:DB:3:C:C2	25:DB:4:C:C5	3.07	0.43
26:DD:117:VAL:HG21	26:DD:128:GLY:C	2.44	0.43
27:DE:16:ARG:O	27:DE:18:ASP:O	2.36	0.43
27:DE:52:LEU:O	27:DE:74:PRO:HA	2.18	0.43
29:DG:59:GLU:O	29:DG:62:LEU:HB3	2.18	0.43
30:DH:120:GLY:O	30:DH:136:ILE:HD12	2.19	0.43
31:DK:33:ARG:HH11	31:DK:33:ARG:CG	2.31	0.43
33:DN:78:ARG:HH21	38:DR:103:ARG:HH22	1.64	0.43
38:DR:19:LEU:HA	38:DR:20:PRO:HD3	1.87	0.43
38:DR:89:VAL:O	38:DR:90:GLN:CB	2.67	0.43
38:DR:89:VAL:O	38:DR:90:GLN:HB2	2.19	0.43
39:D1:53:ARG:C	39:D1:55:ARG:N	2.77	0.43
43:DU:75:ILE:HG12	43:DU:76:CYS:H	1.79	0.43
44:DV:15:PRO:HA	44:DV:18:LEU:HD13	2.00	0.43
44:DV:24:LEU:O	44:DV:24:LEU:HG	2.18	0.43
50:D5:56:LYS:CD	50:D5:56:LYS:N	2.76	0.43
1:AA:438:G:H5"	1:AA:439:A:OP1	2.18	0.43
1:AA:564:C:O2'	8:AK:91:ARG:NH2	2.52	0.43
1:AA:611:A:C5	1:AA:612:C:C5	3.07	0.43
1:AA:668:G:O2'	15:AR:46:HIS:HB3	2.19	0.43
1:AA:760:G:H2'	1:AA:761:G:C5'	2.48	0.43
1:AA:812:C:O2'	1:AA:813:U:C6	2.70	0.43
1:AA:892:A:C2	1:AA:907:A:C4	3.07	0.43
1:AA:930:C:C2'	1:AA:931:C:H5'	2.48	0.43
1:AA:965:A:C2	1:AA:969:A:N1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:998(A):C:N3	1:AA:999:U:C6	2.86	0.43
1:AA:1226:C:N4	13:AP:104:ARG:HD2	2.33	0.43
2:AE:153:ARG:HD3	2:AE:153:ARG:C	2.44	0.43
3:AF:200:ALA:C	3:AF:201:TYR:HD1	2.27	0.43
3:AF:207:VAL:O	3:AF:207:VAL:HG12	2.18	0.43
5:AH:82:VAL:HG21	5:AH:141:GLN:NE2	2.33	0.43
7:AJ:35:LYS:C	7:AJ:37:ASN:N	2.74	0.43
7:AJ:81:GLY:C	7:AJ:83:ALA:N	2.76	0.43
8:AK:112:LEU:HD12	8:AK:114:THR:CG2	2.48	0.43
9:AL:19:LEU:HD23	9:AL:61:ALA:N	2.33	0.43
9:AL:42:ARG:O	9:AL:43:ALA:C	2.62	0.43
9:AL:50:LEU:HA	9:AL:53:VAL:CG2	2.48	0.43
10:AM:50:ILE:HD13	10:AM:60:ARG:HH11	1.84	0.43
10:AM:54:PHE:CG	10:AM:55:LYS:N	2.83	0.43
11:AN:21:ILE:HD13	11:AN:94:ALA:HB1	2.00	0.43
11:AN:89:ALA:O	11:AN:91:ARG:N	2.41	0.43
12:AO:20:LYS:HD3	12:AO:20:LYS:H	1.82	0.43
13:AP:80:ARG:C	13:AP:82:MET:H	2.26	0.43
20:AW:64:ASP:CG	20:AW:81:LYS:HE2	2.44	0.43
22:AC:71:C:C2'	22:AC:72:A:H5'	2.49	0.43
22:AD:9:G:O2'	22:AD:45:G:H2'	2.18	0.43
22:AD:26:G:H1	22:AD:44:A:N6	2.17	0.43
24:BA:153:C:OP2	46:BZ:88:LYS:NZ	2.52	0.43
24:BA:300:A:H2'	24:BA:334:C:O2'	2.19	0.43
24:BA:669:G:N3	24:BA:669:G:C2'	2.80	0.43
24:BA:827:U:O2	24:BA:2246:G:H4'	2.19	0.43
24:BA:1097:U:O2'	24:BA:1098:A:H5'	2.19	0.43
24:BA:1212:G:O2'	24:BA:1236:G:N2	2.52	0.43
24:BA:1577:C:H2'	24:BA:1578:U:C6	2.54	0.43
24:BA:1728:G:C2	24:BA:1730:U:OP2	2.71	0.43
24:BA:1742:C:H5'	24:BA:1743:G:OP2	2.19	0.43
24:BA:1769:G:O2'	24:BA:1958:C:OP1	2.34	0.43
24:BA:1996:C:C5	33:BN:32:TYR:OH	2.71	0.43
24:BA:2328:A:C2	24:BA:2329:G:C5	3.07	0.43
24:BA:2830:G:H2'	24:BA:2883:A:C2	2.54	0.43
25:BB:31:C:H2'	25:BB:31:C:O2	2.18	0.43
27:BE:123:ALA:C	27:BE:124:GLY:O	2.62	0.43
28:BF:8:GLN:O	28:BF:9:ILE:C	2.62	0.43
29:BG:53:LEU:HD23	29:BG:53:LEU:C	2.41	0.43
30:BH:83:TYR:O	30:BH:84:SER:C	2.62	0.43
32:BM:100:GLU:O	32:BM:101:HIS:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:115:ARG:O	32:BM:118:LYS:HB2	2.19	0.43
35:BP:58:PHE:HB3	35:BP:59:ARG:HH21	1.84	0.43
38:BR:98:LYS:HE3	38:BR:98:LYS:CA	2.48	0.43
39:B1:21:ALA:HA	39:B1:24:TYR:CD1	2.54	0.43
39:B1:76:TYR:CZ	39:B1:80:ILE:HG13	2.54	0.43
40:B2:1:MET:HG2	40:B2:2:PHE:H	1.82	0.43
40:B2:22:VAL:HG13	40:B2:23:GLU:O	2.19	0.43
40:B2:29:PRO:HA	40:B2:61:VAL:CG2	2.49	0.43
43:BU:45:VAL:O	43:BU:45:VAL:HG23	2.19	0.43
43:BU:75:ILE:HD13	43:BU:75:ILE:C	2.42	0.43
46:BZ:80:LEU:O	46:BZ:81:LYS:CB	2.67	0.43
47:BW:17:SER:HA	47:BW:20:GLU:HB2	2.00	0.43
1:CA:9:G:H5'	5:CH:122:GLU:OE2	2.19	0.43
1:CA:69:G:N2	1:CA:73:G:C8	2.87	0.43
1:CA:131:C:H2'	1:CA:132:C:H6	1.83	0.43
1:CA:175:C:H2'	1:CA:176:C:H6	1.84	0.43
1:CA:229:U:H2'	1:CA:230:G:O4'	2.19	0.43
1:CA:251:G:N2	1:CA:253:U:C4	2.86	0.43
1:CA:542:G:OP1	4:CG:10:ARG:NH2	2.51	0.43
1:CA:763:G:H2'	1:CA:764:C:C6	2.54	0.43
1:CA:1240:U:O2'	7:CJ:38:LEU:CD2	2.67	0.43
1:CA:1320:C:C4	1:CA:1321:C:N4	2.87	0.43
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.19	0.43
2:CE:130:ARG:NH2	2:CE:138:LEU:HD21	2.34	0.43
4:CG:90:GLY:O	4:CG:93:PHE:HB3	2.19	0.43
7:CJ:23:VAL:O	7:CJ:27:ILE:HD12	2.19	0.43
7:CJ:49:ILE:C	7:CJ:51:GLN:H	2.26	0.43
11:CN:72:ALA:C	11:CN:74:ALA:H	2.26	0.43
15:CR:25:THR:O	15:CR:29:VAL:HG23	2.18	0.43
15:CR:71:GLN:HB2	15:CR:78:TYR:CE1	2.54	0.43
24:DA:102:G:C2'	24:DA:103:A:OP2	2.66	0.43
24:DA:149:A:C2	24:DA:150:C:C2	3.07	0.43
24:DA:270(B):A:O2'	24:DA:364:C:H2'	2.19	0.43
24:DA:636:G:OP1	34:DO:132:LYS:HB2	2.17	0.43
24:DA:727:A:C2	26:DD:9:TYR:CD2	3.07	0.43
24:DA:901:A:H2'	24:DA:901:A:N3	2.34	0.43
24:DA:1139:G:O2'	24:DA:1143:A:N1	2.45	0.43
24:DA:1314:C:H5'	24:DA:1314:C:H6	1.84	0.43
24:DA:1417:C:H2'	24:DA:1418:G:H5'	2.00	0.43
24:DA:2283:C:H5'	51:D6:8:LYS:HZ1	1.83	0.43
26:DD:11:PRO:O	26:DD:12:SER:OG	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:23:VAL:HG12	27:DE:184:VAL:O	2.19	0.43
27:DE:48:GLN:HE21	27:DE:48:GLN:HB3	1.55	0.43
27:DE:155:LYS:O	27:DE:156:MET:HG3	2.19	0.43
30:DH:59:ARG:CG	30:DH:59:ARG:NH1	2.79	0.43
31:DK:60:GLU:CA	31:DK:60:GLU:OE2	2.66	0.43
31:DK:60:GLU:OE2	31:DK:60:GLU:HA	2.18	0.43
34:DO:144:GLU:N	34:DO:144:GLU:CD	2.75	0.43
37:DQ:42:ASP:C	37:DQ:44:LYS:N	2.72	0.43
39:D1:43:GLY:HA3	40:D2:73:SER:OG	2.19	0.43
44:DV:29:TYR:HA	44:DV:33:LEU:O	2.19	0.43
46:DZ:53:VAL:CG1	46:DZ:54:ALA:N	2.81	0.43
48:DX:27:GLY:C	48:DX:28:LEU:HD23	2.43	0.43
52:D7:5:TRP:CD1	52:D7:7:PRO:HG3	2.53	0.43
1:AA:719:C:N4	18:AU:71:LYS:HE2	2.34	0.43
1:AA:960:U:N3	1:AA:1225:A:N7	2.61	0.43
1:AA:1031:G:N2	1:AA:1032:A:C4	2.86	0.43
1:AA:1127:G:C2'	1:AA:1147:C:H42	2.32	0.43
1:AA:1177:G:H2'	1:AA:1178:G:C2	2.54	0.43
1:AA:1306:A:H2'	1:AA:1307:U:H6	1.83	0.43
1:AA:1321:C:C4	1:AA:1322:C:C5	3.07	0.43
1:AA:1350:A:OP2	9:AL:118:LYS:NZ	2.49	0.43
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.54	0.43
1:AA:1470:G:O2'	1:AA:1471:G:H5'	2.19	0.43
2:AE:170:GLU:C	2:AE:172:ILE:N	2.76	0.43
2:AE:194:PRO:HG2	2:AE:195:ASP:H	1.84	0.43
3:AF:5:ILE:O	3:AF:5:ILE:HD13	2.18	0.43
3:AF:11:ARG:NH1	3:AF:11:ARG:CG	2.81	0.43
4:AG:30:LYS:HB3	4:AG:35:ARG:CZ	2.49	0.43
7:AJ:5:ARG:HH21	7:AJ:7:ALA:CB	2.32	0.43
7:AJ:76:ARG:HH11	7:AJ:76:ARG:HG2	1.84	0.43
13:AP:49:THR:CG2	13:AP:52:GLU:OE1	2.67	0.43
13:AP:94:ARG:HG3	13:AP:94:ARG:O	2.19	0.43
18:AU:64:ARG:C	18:AU:66:LEU:N	2.77	0.43
20:AW:67:ALA:HA	20:AW:73:HIS:N	2.33	0.43
22:AC:35:A:H2'	22:AC:36:U:C6	2.54	0.43
24:BA:85:G:N3	24:BA:103:A:C2	2.87	0.43
24:BA:271(B):G:H4'	24:BA:271(C):U:C5'	2.48	0.43
24:BA:774:A:H2	24:BA:787:U:O2'	2.01	0.43
24:BA:846:C:N4	24:BA:930:U:C6	2.87	0.43
24:BA:915:C:O2'	24:BA:916:G:H5'	2.19	0.43
24:BA:978:G:C2'	24:BA:979:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1316:U:H2'	24:BA:1317:A:C8	2.51	0.43
24:BA:1817:G:H5"	26:BD:88:ARG:HH21	1.84	0.43
24:BA:2032:G:C2'	24:BA:2033:A:OP2	2.67	0.43
24:BA:2033:A:P	24:BA:2033:A:O4'	2.77	0.43
24:BA:2111:C:O4'	24:BA:2111:C:P	2.77	0.43
24:BA:2168:G:N3	24:BA:2168:G:C2'	2.80	0.43
24:BA:2713:A:H3'	24:BA:2714:G:H5'	2.01	0.43
26:BD:25:THR:HG23	26:BD:26:LYS:O	2.19	0.43
27:BE:16:ARG:NH1	27:BE:173:VAL:HG13	2.34	0.43
27:BE:27:LEU:CD2	38:BR:1:MET:HE2	2.49	0.43
27:BE:37:ARG:HD3	27:BE:44:TYR:CZ	2.54	0.43
27:BE:91:VAL:O	27:BE:91:VAL:HG13	2.19	0.43
28:BF:10:PRO:O	28:BF:11:VAL:HG23	2.19	0.43
28:BF:64:ILE:C	28:BF:65:TRP:CD1	2.97	0.43
29:BG:126:ASP:OD2	29:BG:126:ASP:C	2.62	0.43
30:BH:98:LEU:HD12	30:BH:98:LEU:N	2.34	0.43
30:BH:169:VAL:O	30:BH:170:ARG:HG3	2.19	0.43
32:BM:26:LEU:O	32:BM:30:ILE:HG13	2.19	0.43
33:BN:61:VAL:O	33:BN:61:VAL:HG13	2.18	0.43
34:BO:52:GLU:HB2	34:BO:53:GLY:H	1.48	0.43
34:BO:115:LEU:HB2	34:BO:131:SER:CB	2.47	0.43
35:BP:59:ARG:HD2	35:BP:59:ARG:N	2.34	0.43
35:BP:81:VAL:CA	35:BP:82:ARG:HH12	2.31	0.43
37:BQ:101:LEU:HD22	37:BQ:101:LEU:O	2.18	0.43
38:BR:136:GLN:HB3	38:BR:136:GLN:HE21	1.54	0.43
39:B1:85:LYS:C	39:B1:87:GLY:N	2.69	0.43
39:B1:112:ARG:NH1	40:B2:47:VAL:CG1	2.82	0.43
42:BT:31:HIS:ND1	42:BT:32:PRO:HD2	2.34	0.43
42:BT:55:ASN:O	42:BT:79:ALA:HA	2.19	0.43
44:BV:103:ARG:C	44:BV:139:VAL:HG23	2.44	0.43
45:B3:40:GLN:OE1	45:B3:44:ARG:N	2.52	0.43
47:BW:47:ASN:O	47:BW:50:ILE:HG13	2.19	0.43
1:CA:7:G:H5'	1:CA:298:A:O4'	2.18	0.43
1:CA:119:A:O2'	1:CA:120:A:OP2	2.27	0.43
1:CA:184:G:H4'	1:CA:224:C:O3'	2.18	0.43
1:CA:221:C:H2'	1:CA:222:U:H6	1.83	0.43
1:CA:389:A:H2'	1:CA:390:C:H5'	2.00	0.43
1:CA:720:C:H2'	1:CA:721:G:C8	2.53	0.43
1:CA:746:A:H4'	1:CA:837:G:O2'	2.19	0.43
1:CA:765:G:H22	1:CA:812:C:H2'	1.84	0.43
1:CA:815:A:H5"	1:CA:817:C:N4	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:936:C:H2'	1:CA:937:A:C8	2.54	0.43
1:CA:963:G:H21	10:CM:55:LYS:CE	2.31	0.43
1:CA:1201:A:O2'	1:CA:1202:G:OP2	2.30	0.43
1:CA:1454:G:OP1	20:CW:39:LYS:NZ	2.49	0.43
2:CE:69:LEU:HD12	2:CE:91:PRO:O	2.19	0.43
5:CH:126:ARG:NH1	5:CH:126:ARG:CG	2.79	0.43
8:CK:86:ILE:CB	8:CK:133:LEU:HD22	2.49	0.43
9:CL:26:VAL:CG1	9:CL:63:ILE:HD13	2.49	0.43
10:CM:74:ILE:H	10:CM:74:ILE:CD1	2.21	0.43
11:CN:44:SER:O	11:CN:48:ILE:HG12	2.18	0.43
11:CN:62:GLN:O	11:CN:64:ALA:N	2.52	0.43
14:CQ:26:ARG:NH1	14:CQ:43:CYS:HA	2.33	0.43
16:CS:20:VAL:CG2	16:CS:21:VAL:N	2.81	0.43
18:CU:43:PHE:HA	18:CU:51:LEU:HD12	2.01	0.43
19:CV:29:ARG:HH11	19:CV:29:ARG:HG2	1.84	0.43
19:CV:62:ILE:HG22	19:CV:63:THR:N	2.34	0.43
24:DA:307:G:N2	24:DA:310:A:C8	2.87	0.43
24:DA:404:C:HO2'	24:DA:405:U:P	2.41	0.43
24:DA:638:G:C5	24:DA:651:G:C2	3.07	0.43
24:DA:792:G:H2'	24:DA:2440:C:N3	2.34	0.43
24:DA:971:C:H2'	24:DA:972:G:C5'	2.49	0.43
24:DA:999:U:O2'	24:DA:1000:A:H5'	2.19	0.43
24:DA:1082:U:C2	24:DA:1086:A:C2	3.07	0.43
24:DA:1215:G:O2'	24:DA:1216:G:H5'	2.19	0.43
24:DA:1248:G:OP2	28:DF:92:PRO:HB3	2.19	0.43
24:DA:1385:G:HO2'	24:DA:1386:C:H6	1.63	0.43
24:DA:1880:C:H6	24:DA:1880:C:C5'	2.21	0.43
24:DA:2212:A:O2'	24:DA:2215:G:C8	2.71	0.43
24:DA:2244:U:N3	24:DA:2435:A:N7	2.52	0.43
24:DA:2287:A:C2	24:DA:2289:G:C8	3.07	0.43
24:DA:2406:U:H5"	24:DA:2408:U:OP2	2.18	0.43
24:DA:2657:A:H2'	24:DA:2658:C:O5'	2.19	0.43
24:DA:2836:U:C4	24:DA:2883:A:N6	2.87	0.43
25:DB:24:G:N7	25:DB:56:G:H2'	2.33	0.43
25:DB:71:C:C4	25:DB:72:G:N7	2.86	0.43
29:DG:7:LEU:CD2	29:DG:176:LEU:HD22	2.45	0.43
29:DG:25:TYR:CZ	29:DG:32:PRO:HD3	2.54	0.43
29:DG:53:LEU:C	29:DG:55:LYS:H	2.26	0.43
29:DG:131:TYR:HE2	29:DG:133:LEU:HD22	1.84	0.43
30:DH:58:GLU:O	30:DH:59:ARG:C	2.61	0.43
35:DP:25:ASP:H	35:DP:102:VAL:HG23	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:D0:94:TYR:N	36:D0:94:TYR:CD2	2.87	0.43
40:D2:66:ARG:NH1	40:D2:88:ARG:CD	2.74	0.43
43:DU:97:ARG:HH21	43:DU:98:VAL:CG2	2.32	0.43
45:D3:74:ARG:HG3	45:D3:74:ARG:H	1.60	0.43
46:DZ:29:GLY:O	46:DZ:31:GLY:N	2.49	0.43
50:D5:40:LYS:HE2	50:D5:47:PRO:CG	2.49	0.43
1:AA:116:A:O5'	1:AA:116:A:C8	2.71	0.42
1:AA:361:G:H2'	1:AA:362:G:O4'	2.19	0.42
1:AA:394:G:H2'	1:AA:395:C:C6	2.54	0.42
1:AA:428:G:H1'	1:AA:430:A:N7	2.34	0.42
1:AA:613:C:H2'	1:AA:614:A:O4'	2.19	0.42
1:AA:1095:U:P	1:AA:1108:G:H1	2.41	0.42
1:AA:1106:G:H5"	3:AF:172:ARG:CG	2.48	0.42
1:AA:1117:G:O5'	9:AL:104:ARG:NH1	2.52	0.42
1:AA:1139:G:C5'	1:AA:1140:C:OP1	2.67	0.42
1:AA:1287:A:H8	1:AA:1287:A:H5'	1.84	0.42
1:AA:1512:U:C2	1:AA:1513:A:C8	3.07	0.42
3:AF:2:GLY:O	3:AF:3:ASN:HB2	2.18	0.42
3:AF:85:ARG:NE	3:AF:85:ARG:CA	2.82	0.42
4:AG:62:GLN:O	4:AG:66:ARG:N	2.47	0.42
7:AJ:12:LEU:HD12	7:AJ:12:LEU:N	2.32	0.42
8:AK:25:ASP:OD1	8:AK:60:ARG:HG3	2.19	0.42
8:AK:56:LYS:HA	8:AK:57:PRO:HD2	1.90	0.42
8:AK:77:GLU:HG2	8:AK:78:GLN:H	1.80	0.42
8:AK:84:ARG:HG2	8:AK:84:ARG:NH1	2.27	0.42
8:AK:87:SER:HA	8:AK:93:VAL:HG23	2.00	0.42
9:AL:77:ILE:HG22	9:AL:81:ILE:CG1	2.49	0.42
10:AM:54:PHE:O	10:AM:55:LYS:CG	2.66	0.42
11:AN:60:ALA:C	11:AN:62:GLN:N	2.75	0.42
11:AN:81:ASP:OD1	11:AN:106:LYS:HD3	2.19	0.42
19:AV:28:LYS:C	19:AV:30:LEU:N	2.77	0.42
19:AV:36:ARG:HG3	19:AV:72:GLY:N	2.34	0.42
22:AC:21:A:C5	22:AC:46:G:C6	3.06	0.42
22:AD:36:U:H2'	22:AD:37:A:O4'	2.19	0.42
22:AD:60:U:OP2	22:AD:61:C:N4	2.45	0.42
24:BA:57:C:H2'	24:BA:58:G:O4'	2.19	0.42
24:BA:389:G:N1	34:BO:70:GLN:HB3	2.33	0.42
24:BA:394:A:C5'	24:BA:395:U:OP2	2.59	0.42
24:BA:643:A:H2'	24:BA:644:A:H5'	2.01	0.42
24:BA:664:C:H2'	24:BA:665:C:H6	1.84	0.42
24:BA:1261:C:C2'	24:BA:1262:A:O5'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1359:A:O2'	24:BA:1360:A:OP1	2.37	0.42
24:BA:1401:G:H2'	24:BA:1402:C:C6	2.54	0.42
24:BA:1761:C:N4	24:BA:1762:A:N6	2.67	0.42
24:BA:1818:U:H2'	26:BD:154:LYS:O	2.19	0.42
24:BA:1951:U:O2	24:BA:1953:A:H8	2.01	0.42
24:BA:2144:U:O5'	24:BA:2144:U:H6	2.01	0.42
24:BA:2448:A:H5'	24:BA:2449:U:OP2	2.18	0.42
24:BA:2661:G:H2'	24:BA:2662:A:C8	2.54	0.42
24:BA:2723:C:C4	24:BA:2724:C:C5	3.07	0.42
24:BA:2749:A:H4'	30:BH:62:LYS:CB	2.49	0.42
26:BD:73:VAL:HG12	26:BD:74:GLY:N	2.34	0.42
27:BE:31:CYS:HB3	27:BE:49:LEU:HB3	1.99	0.42
28:BF:17:ARG:NH1	28:BF:17:ARG:HG3	2.34	0.42
28:BF:192:LEU:HD11	28:BF:194:MET:HE2	2.01	0.42
29:BG:34:LEU:HD21	29:BG:159:VAL:CG2	2.49	0.42
31:BK:40:THR:O	31:BK:41:GLU:C	2.61	0.42
33:BN:13:ASN:HD21	33:BN:97:ARG:HB2	1.84	0.42
36:B0:18:LEU:HD11	36:B0:22:ARG:HH21	1.84	0.42
37:BQ:70:GLY:O	37:BQ:71:ARG:C	2.62	0.42
38:BR:99:LEU:HB3	38:BR:101:PHE:HE1	1.84	0.42
41:BS:50:VAL:HG22	41:BS:105:VAL:HG23	2.01	0.42
41:BS:92:ARG:HG2	41:BS:92:ARG:NH1	2.34	0.42
44:BV:65:GLN:HB3	44:BV:66:SER:H	1.64	0.42
45:B3:54:GLY:O	45:B3:56:ASP:N	2.52	0.42
46:BZ:56:GLN:N	46:BZ:56:GLN:HE21	2.17	0.42
46:BZ:57:GLU:O	46:BZ:58:ILE:HG13	2.19	0.42
51:B6:36:LEU:CD2	51:B6:50:ARG:CZ	2.97	0.42
1:CA:64:G:N2	1:CA:67:C:N4	2.67	0.42
1:CA:349:A:O2'	1:CA:350:G:H5'	2.20	0.42
1:CA:422:C:H1'	1:CA:423:G:C2	2.54	0.42
1:CA:535:A:H4'	1:CA:536:C:OP1	2.15	0.42
1:CA:598:U:H4'	8:CK:94:TYR:CD2	2.54	0.42
1:CA:973:G:N3	10:CM:55:LYS:HE2	2.34	0.42
1:CA:1089:G:O2'	1:CA:1170:A:H2	2.02	0.42
1:CA:1205:U:H5'	3:CF:190:ARG:CZ	2.48	0.42
1:CA:1301:U:O2	1:CA:1301:U:C2'	2.67	0.42
2:CE:87:ARG:NH1	2:CE:223:ILE:HD12	2.33	0.42
2:CE:100:GLY:N	2:CE:176:GLU:OE2	2.51	0.42
4:CG:88:VAL:O	4:CG:89:THR:C	2.62	0.42
5:CH:105:VAL:HB	5:CH:106:PRO:CD	2.48	0.42
6:CI:45:LEU:CD1	6:CI:59:TYR:HD1	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:17:VAL:HG21	9:CL:80:GLY:C	2.44	0.42
9:CL:25:LYS:O	9:CL:60:ASP:OD1	2.37	0.42
10:CM:10:GLY:O	10:CM:68:HIS:N	2.51	0.42
11:CN:34:ASP:OD1	11:CN:38:ASN:HB2	2.18	0.42
11:CN:105:VAL:O	11:CN:105:VAL:HG23	2.19	0.42
13:CP:54:VAL:O	13:CP:58:GLU:OE2	2.37	0.42
14:CQ:40:CYS:C	14:CQ:42:ILE:N	2.75	0.42
16:CS:23:ASP:O	16:CS:26:ARG:HB2	2.18	0.42
17:CT:77:VAL:O	17:CT:78:GLU:HB2	2.18	0.42
19:CV:39:THR:CG2	19:CV:40:ILE:H	2.23	0.42
19:CV:51:VAL:HG12	19:CV:52:TYR:N	2.33	0.42
24:DA:249:C:O2	53:D8:12:LYS:HE3	2.19	0.42
24:DA:392:C:H5"	24:DA:409:C:H5"	2.01	0.42
24:DA:811:U:O2'	24:DA:1250:G:H2'	2.18	0.42
24:DA:1179:C:H2'	24:DA:1180:C:C5'	2.23	0.42
24:DA:1542:G:O6	24:DA:1543:A:N6	2.52	0.42
24:DA:1751:C:O2'	24:DA:1752:C:H5'	2.19	0.42
24:DA:2688:U:O2	24:DA:2719:G:N1	2.52	0.42
25:DB:48:A:H4'	37:DQ:95:HIS:CD2	2.54	0.42
26:DD:17:THR:HG22	26:DD:204:ILE:HA	1.98	0.42
27:DE:197:ILE:CD1	27:DE:199:ARG:HH12	2.26	0.42
28:DF:64:ILE:HD12	28:DF:64:ILE:HA	1.89	0.42
28:DF:135:LYS:O	28:DF:136:THR:C	2.61	0.42
29:DG:31:VAL:O	29:DG:31:VAL:HG13	2.18	0.42
29:DG:121:ASN:HA	29:DG:181:ARG:NH2	2.34	0.42
29:DG:139:LEU:C	29:DG:139:LEU:HD12	2.44	0.42
29:DG:139:LEU:HA	29:DG:144:ILE:HG21	2.00	0.42
30:DH:125:VAL:HG12	30:DH:126:PRO:CD	2.49	0.42
31:DK:31:LEU:HD12	31:DK:31:LEU:N	2.35	0.42
31:DK:144:VAL:HG22	31:DK:145:VAL:HG13	2.01	0.42
32:DM:57:ALA:O	32:DM:124:ALA:HA	2.18	0.42
32:DM:62:VAL:HG12	32:DM:66:LYS:HB2	2.01	0.42
45:D3:72:ARG:HH21	45:D3:75:LEU:HD12	1.83	0.42
48:DX:50:VAL:HB	48:DX:53:LEU:HD12	2.00	0.42
49:D4:45:GLY:O	49:D4:46:GLN:C	2.62	0.42
1:AA:193:C:O2'	1:AA:194:C:H5'	2.18	0.42
1:AA:677:U:C2	1:AA:678:U:C5	3.06	0.42
1:AA:1270:C:OP2	21:AX:24:ARG:NH2	2.52	0.42
1:AA:1298:C:O2'	1:AA:1299:A:C4	2.71	0.42
2:AE:97:TRP:HZ3	2:AE:172:ILE:HG22	1.84	0.42
3:AF:43:LEU:O	3:AF:47:LEU:HB3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:165:THR:O	3:AF:165:THR:HG23	2.19	0.42
4:AG:122:ARG:C	4:AG:124:GLY:H	2.27	0.42
5:AH:58:ALA:O	5:AH:62:ALA:HB2	2.18	0.42
5:AH:91:LEU:HG	5:AH:120:THR:CG2	2.42	0.42
6:AI:40:VAL:O	6:AI:40:VAL:HG13	2.18	0.42
7:AJ:35:LYS:C	7:AJ:37:ASN:H	2.27	0.42
8:AK:91:ARG:CG	8:AK:91:ARG:NH1	2.82	0.42
9:AL:23:ASN:O	9:AL:25:LYS:N	2.52	0.42
9:AL:28:VAL:CG2	9:AL:29:ASN:N	2.62	0.42
12:AO:79:GLU:C	12:AO:81:SER:N	2.77	0.42
13:AP:56:LEU:O	13:AP:60:VAL:HG23	2.18	0.42
17:AT:7:THR:O	17:AT:23:VAL:HG22	2.19	0.42
19:AV:6:LYS:CG	19:AV:7:LYS:N	2.83	0.42
19:AV:47:HIS:HB3	19:AV:48:THR:H	1.42	0.42
24:BA:49:A:N6	24:BA:177:G:H2'	2.34	0.42
24:BA:125:G:H5"	52:B7:19:ARG:HD3	2.01	0.42
24:BA:996:A:C2'	39:B1:92:ARG:HH21	2.31	0.42
24:BA:1085:A:HO2'	24:BA:1086:A:P	2.42	0.42
24:BA:1264:G:H2'	24:BA:2014:A:N6	2.33	0.42
24:BA:1349:A:N6	24:BA:1598:C:H42	2.17	0.42
24:BA:1359:A:N7	24:BA:1373:A:C2	2.87	0.42
24:BA:1633:G:O5'	24:BA:1633:G:H8	2.01	0.42
24:BA:1826:G:H2'	24:BA:1827:C:H6	1.84	0.42
24:BA:1833:U:H2'	24:BA:1834:U:O4'	2.20	0.42
24:BA:1902:C:OP1	26:BD:242:ARG:HD3	2.19	0.42
24:BA:2120:G:H2'	24:BA:2121:G:C8	2.54	0.42
24:BA:2335:A:N7	24:BA:2337:G:C5	2.87	0.42
24:BA:2417:C:H2'	24:BA:2418:A:O4'	2.19	0.42
24:BA:2588:G:O6	24:BA:2607:G:C6	2.71	0.42
24:BA:2638:G:H1'	24:BA:2778:A:N6	2.34	0.42
24:BA:2814:C:O2'	50:B5:29:THR:HG21	2.19	0.42
26:BD:113:VAL:C	26:BD:115:GLN:H	2.27	0.42
28:BF:21:ALA:O	28:BF:23:ASP:N	2.52	0.42
28:BF:34:TRP:HB2	34:BO:6:LEU:CD1	2.42	0.42
28:BF:83:PHE:O	28:BF:84:VAL:C	2.60	0.42
30:BH:133:VAL:HG13	30:BH:134:SER:N	2.34	0.42
37:BQ:3:ARG:HH12	45:B3:74:ARG:NH2	2.16	0.42
38:BR:124:ASP:C	38:BR:126:ALA:N	2.77	0.42
40:B2:35:LEU:O	40:B2:35:LEU:CD2	2.67	0.42
40:B2:81:TYR:CD1	40:B2:81:TYR:N	2.83	0.42
43:BU:60:PHE:CD2	43:BU:60:PHE:N	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:99:TYR:HA	44:BV:124:ILE:O	2.18	0.42
44:BV:140:ASP:HB3	44:BV:141:VAL:H	1.63	0.42
45:B3:53:MET:HA	45:B3:58:THR:O	2.18	0.42
1:CA:1051:C:O2'	1:CA:1052:U:H5'	2.18	0.42
1:CA:1260:C:H4'	1:CA:1284:C:H5'	2.00	0.42
1:CA:1381:U:C5	1:CA:1382:C:C5	3.08	0.42
1:CA:1449:C:O2'	1:CA:1450:U:C6	2.71	0.42
1:CA:1451:A:H2'	1:CA:1451:A:N3	2.34	0.42
2:CE:17:PHE:CG	2:CE:44:LEU:HD11	2.53	0.42
2:CE:142:LEU:HD23	2:CE:142:LEU:O	2.18	0.42
2:CE:200:ILE:HD12	2:CE:200:ILE:N	2.34	0.42
4:CG:9:CYS:C	4:CG:11:LEU:N	2.77	0.42
6:CI:3:ARG:HB3	6:CI:93:SER:CB	2.48	0.42
7:CJ:79:ARG:NH1	7:CJ:82:GLY:HA2	2.34	0.42
12:CO:91:LYS:HE2	12:CO:91:LYS:HB2	1.76	0.42
12:CO:119:LYS:HB2	12:CO:120:TYR:HD1	1.83	0.42
13:CP:3:ARG:HD2	13:CP:9:ILE:CG1	2.45	0.42
14:CQ:9:LYS:HG2	14:CQ:9:LYS:O	2.19	0.42
17:CT:13:ASP:C	17:CT:15:MET:N	2.77	0.42
19:CV:12:ASP:CG	19:CV:37:ARG:HD2	2.43	0.42
19:CV:41:VAL:CG1	19:CV:45:VAL:H	2.32	0.42
19:CV:44:MET:HE2	19:CV:49:ILE:HD11	2.00	0.42
20:CW:13:LEU:CD1	20:CW:17:ARG:NH1	2.82	0.42
20:CW:81:LYS:C	20:CW:83:ARG:H	2.27	0.42
24:DA:142:G:H1'	42:DT:37:THR:HG21	2.01	0.42
24:DA:385:C:O2'	24:DA:388:G:N2	2.52	0.42
24:DA:391:G:C4	24:DA:392:C:C5	3.06	0.42
24:DA:512:G:HO2'	24:DA:513:A:H8	1.67	0.42
24:DA:962:G:H2'	24:DA:963:U:C6	2.54	0.42
24:DA:1204:A:H2'	24:DA:1205:U:OP2	2.19	0.42
24:DA:1230:C:H2'	24:DA:1231:G:H8	1.84	0.42
24:DA:1252:G:HO2'	24:DA:1253:A:P	2.42	0.42
24:DA:1605:C:H2'	24:DA:1606:G:O4'	2.19	0.42
24:DA:1827:C:C2'	24:DA:1828:G:H5'	2.48	0.42
24:DA:2422:A:O2'	24:DA:2424:C:H5"	2.19	0.42
24:DA:2636:U:H4'	27:DE:80:GLU:CD	2.44	0.42
24:DA:2729:G:N3	27:DE:187:ALA:HB2	2.33	0.42
24:DA:2745:C:C4	24:DA:2746:U:C4	3.07	0.42
25:DB:15:A:C5'	25:DB:16:G:H8	2.27	0.42
28:DF:11:VAL:HG12	28:DF:12:LEU:H	1.84	0.42
28:DF:128:ALA:O	28:DF:129:PHE:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:16:ARG:NE	29:DG:31:VAL:HG11	2.34	0.42
34:DO:101:VAL:HG13	34:DO:102:ARG:N	2.33	0.42
36:D0:10:LEU:O	36:D0:12:ARG:N	2.52	0.42
36:D0:81:ASP:N	36:D0:81:ASP:OD2	2.51	0.42
39:D1:91:ASP:OD2	39:D1:96:ALA:HB2	2.19	0.42
44:DV:105:VAL:HG22	44:DV:105:VAL:O	2.18	0.42
47:DW:48:HIS:C	47:DW:50:ILE:N	2.76	0.42
1:AA:168:G:O2'	1:AA:169:C:H5"	2.17	0.42
1:AA:376:G:H4'	16:AS:5:ARG:CD	2.46	0.42
1:AA:502:G:OP1	12:AO:116:SER:HA	2.18	0.42
1:AA:537:G:H2'	1:AA:538:G:C8	2.54	0.42
1:AA:1047:G:H8	1:AA:1047:G:O5'	2.03	0.42
1:AA:1084:G:H5'	1:AA:1102:A:OP2	2.19	0.42
1:AA:1355:G:O2'	1:AA:1356:G:H5'	2.18	0.42
1:AA:1364:U:C6	21:AX:14:TRP:HH2	2.33	0.42
3:AF:119:ARG:HE	3:AF:137:ALA:HA	1.85	0.42
4:AG:26:CYS:SG	4:AG:32:ALA:CA	3.08	0.42
4:AG:102:ASP:HA	4:AG:121:VAL:HG21	2.01	0.42
5:AH:33:VAL:HG12	5:AH:34:VAL:N	2.34	0.42
9:AL:97:LYS:C	9:AL:100:GLY:H	2.27	0.42
10:AM:76:ASN:HA	10:AM:77:PRO:HD2	1.86	0.42
10:AM:82:ILE:O	10:AM:86:MET:N	2.52	0.42
13:AP:3:ARG:CB	29:BG:113:ARG:HH21	2.33	0.42
13:AP:81:LEU:CB	13:AP:89:GLY:HA3	2.46	0.42
15:AR:3:ILE:HD13	15:AR:3:ILE:N	2.33	0.42
15:AR:26:GLU:H	15:AR:26:GLU:HG2	1.53	0.42
15:AR:54:ARG:O	15:AR:55:GLY:C	2.63	0.42
18:AU:36:ASN:ND2	18:AU:39:VAL:CG2	2.80	0.42
24:BA:16:G:H2'	24:BA:17:G:H8	1.83	0.42
24:BA:30:G:C5	24:BA:31:C:C5	3.07	0.42
24:BA:270(L):U:O4	31:BK:50:ARG:NH1	2.52	0.42
24:BA:447:A:H2'	24:BA:473:G:N7	2.34	0.42
24:BA:650:C:H5"	24:BA:651:G:OP2	2.19	0.42
24:BA:699:A:O2'	24:BA:700:G:H5'	2.19	0.42
24:BA:864:G:H2'	24:BA:865:C:H6	1.84	0.42
24:BA:883:G:C2'	24:BA:884:C:OP1	2.67	0.42
24:BA:917:A:N1	25:BB:80:U:H4'	2.34	0.42
24:BA:975:G:C5	24:BA:976:C:C5	3.08	0.42
24:BA:1204:A:O2'	24:BA:1205:U:C5'	2.67	0.42
24:BA:1204:A:C2	24:BA:1241:A:N1	2.87	0.42
24:BA:1374:G:O2'	24:BA:1375:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1434:A:H2'	24:BA:1435:G:H8	1.83	0.42
24:BA:1948:G:C8	24:BA:1948:G:C5'	2.96	0.42
24:BA:2718:G:C6	24:BA:2719:G:C5	3.07	0.42
25:BB:24:G:H4'	25:BB:25:A:C8	2.54	0.42
26:BD:142:VAL:HG21	26:BD:191:ALA:CB	2.49	0.42
26:BD:153:ALA:C	26:BD:154:LYS:HG3	2.43	0.42
26:BD:198:ASN:C	26:BD:200:ASP:N	2.77	0.42
28:BF:17:ARG:HG3	28:BF:17:ARG:HH11	1.85	0.42
28:BF:39:TRP:O	28:BF:43:LYS:HG2	2.19	0.42
28:BF:61:GLY:O	28:BF:77:ASP:HB3	2.18	0.42
29:BG:136:ARG:O	29:BG:137:GLU:C	2.63	0.42
29:BG:175:LEU:O	29:BG:176:LEU:C	2.63	0.42
30:BH:107:VAL:HG21	30:BH:152:ARG:HG3	1.99	0.42
31:BK:110:ASP:CG	31:BK:130:TYR:CE1	2.97	0.42
32:BM:24:GLY:O	32:BM:25:ARG:C	2.62	0.42
34:BO:84:ASN:HB2	34:BO:87:ASP:OD1	2.19	0.42
34:BO:88:LEU:HD11	34:BO:95:VAL:HG21	2.00	0.42
34:BO:114:ILE:HG23	34:BO:130:PHE:CD1	2.54	0.42
35:BP:57:HIS:C	35:BP:58:PHE:CD2	2.97	0.42
35:BP:81:VAL:C	35:BP:82:ARG:NH1	2.77	0.42
37:BQ:44:LYS:HB2	37:BQ:44:LYS:HE3	1.85	0.42
39:B1:92:ARG:O	39:B1:92:ARG:HD3	2.19	0.42
40:B2:54:GLY:O	40:B2:55:ALA:C	2.62	0.42
43:BU:21:LYS:O	43:BU:21:LYS:CG	2.64	0.42
43:BU:43:ASN:HB2	43:BU:64:GLU:HA	1.97	0.42
44:BV:24:LEU:HA	44:BV:25:PRO:HD3	1.82	0.42
46:BZ:80:LEU:HD13	46:BZ:80:LEU:N	2.33	0.42
49:B4:39:CYS:HB3	49:B4:40:HIS:H	1.62	0.42
50:B5:51:TYR:HB3	50:B5:52:TYR:H	1.49	0.42
51:B6:24:GLU:O	51:B6:25:LYS:HB2	2.19	0.42
1:CA:157:G:C2'	1:CA:158:G:H5'	2.49	0.42
1:CA:390:C:O2'	1:CA:391:G:H5'	2.19	0.42
1:CA:412:A:O2'	1:CA:413:G:P	2.77	0.42
1:CA:722:A:N1	1:CA:733:A:N6	2.56	0.42
1:CA:878:G:C5'	8:CK:89:PRO:HG2	2.48	0.42
1:CA:956:U:H2'	1:CA:957:U:C5'	2.48	0.42
1:CA:1126:U:H5	1:CA:1127:G:C4	2.35	0.42
1:CA:1240:U:C4	7:CJ:32:ARG:HD2	2.55	0.42
1:CA:1285:A:HO2'	1:CA:1286:A:P	2.42	0.42
1:CA:1429:C:H2'	1:CA:1430:C:H6	1.83	0.42
2:CE:16:HIS:CD2	2:CE:213:LEU:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:36:ARG:HA	4:CG:37:PRO:HD2	1.82	0.42
4:CG:146:ILE:H	4:CG:146:ILE:CD1	2.30	0.42
5:CH:147:ASP:N	5:CH:147:ASP:OD2	2.50	0.42
6:CI:36:ARG:CZ	6:CI:38:GLU:HG2	2.50	0.42
7:CJ:79:ARG:HH12	7:CJ:82:GLY:HA2	1.84	0.42
7:CJ:89:MET:CE	7:CJ:156:TRP:H	2.22	0.42
7:CJ:140:ASP:O	7:CJ:142:GLU:N	2.52	0.42
19:CV:41:VAL:HG12	19:CV:45:VAL:H	1.85	0.42
19:CV:69:HIS:ND1	49:D4:69:LYS:HE2	2.33	0.42
20:CW:96:GLY:O	20:CW:99:LEU:CD1	2.67	0.42
24:DA:102:G:OP2	47:DW:7:ARG:NH2	2.53	0.42
24:DA:270(M):U:H1'	24:DA:270(N):G:C6	2.54	0.42
24:DA:540:G:H3'	24:DA:541:C:C6	2.54	0.42
24:DA:585:G:O6	24:DA:1251:C:H2'	2.19	0.42
24:DA:592:G:N3	53:D8:4:MET:HE2	2.33	0.42
24:DA:918:A:N6	24:DA:2268:A:N7	2.59	0.42
24:DA:1062:G:N3	24:DA:1077:A:N6	2.67	0.42
24:DA:1070:A:N6	24:DA:1096:A:N1	2.68	0.42
24:DA:1412:A:H2'	24:DA:1413:G:O4'	2.20	0.42
24:DA:1423:G:H2'	24:DA:1424:G:H8	1.84	0.42
24:DA:1534:G:C8	24:DA:1534:G:C3'	3.01	0.42
24:DA:1608:A:C4'	24:DA:1609:A:OP1	2.67	0.42
24:DA:2524:G:H2'	24:DA:2741:A:H2	1.84	0.42
24:DA:2687:U:N3	24:DA:2688:U:C6	2.87	0.42
24:DA:2714:G:C6	24:DA:2715:C:C4	3.08	0.42
25:DB:15:A:C2'	25:DB:16:G:OP1	2.67	0.42
25:DB:35:U:H2'	25:DB:36:C:C6	2.53	0.42
25:DB:80:U:C2'	25:DB:81:G:H5"	2.49	0.42
26:DD:108:PRO:HG2	26:DD:111:LEU:HB2	2.01	0.42
26:DD:155:LEU:HD23	26:DD:177:LEU:HD21	2.00	0.42
26:DD:213:ARG:HA	26:DD:213:ARG:HD2	1.60	0.42
26:DD:263:ARG:NH1	26:DD:263:ARG:CB	2.75	0.42
28:DF:132:VAL:HG23	28:DF:133:ASN:H	1.82	0.42
29:DG:77:ILE:H	29:DG:82:LEU:HB2	1.84	0.42
29:DG:83:ARG:CG	29:DG:86:MET:HE3	2.49	0.42
29:DG:110:ALA:O	29:DG:111:LEU:C	2.62	0.42
30:DH:77:LYS:HB3	30:DH:77:LYS:HZ2	1.78	0.42
35:DP:20:ALA:HA	35:DP:98:LYS:HB3	2.02	0.42
38:DR:96:ARG:HB2	38:DR:96:ARG:CZ	2.49	0.42
40:D2:38:LEU:CD2	40:D2:39:LEU:N	2.82	0.42
46:DZ:13:ILE:CG1	46:DZ:42:GLN:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DX:46:ASN:O	48:DX:50:VAL:HG22	2.19	0.42
1:AA:518:C:H5'	1:AA:519:C:C5	2.53	0.42
1:AA:566:G:C4'	1:AA:567:G:OP1	2.63	0.42
1:AA:815:A:HO2'	1:AA:816:A:P	2.40	0.42
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.19	0.42
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.84	0.42
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.84	0.42
2:AE:95:GLN:O	2:AE:97:TRP:N	2.52	0.42
3:AF:6:HIS:HD2	3:AF:7:PRO:HD2	1.83	0.42
3:AF:16:ARG:NH2	3:AF:181:ASN:CA	2.75	0.42
3:AF:113:ALA:N	3:AF:202:ILE:HD12	2.35	0.42
3:AF:151:VAL:HA	3:AF:199:LYS:O	2.19	0.42
3:AF:186:PHE:CE2	3:AF:188:LEU:HD22	2.54	0.42
4:AG:170:VAL:O	4:AG:171:GLY:C	2.62	0.42
5:AH:76:ILE:HG13	5:AH:118:ILE:HD13	2.01	0.42
5:AH:145:LYS:O	5:AH:149:GLU:HG3	2.19	0.42
7:AJ:86:GLN:O	7:AJ:87:VAL:C	2.62	0.42
9:AL:66:ARG:NH1	9:AL:66:ARG:CB	2.82	0.42
12:AO:83:VAL:CG2	12:AO:84:LEU:N	2.83	0.42
13:AP:13:LYS:O	13:AP:14:ARG:C	2.61	0.42
20:AW:57:ARG:HH22	20:AW:100:ILE:HG21	1.84	0.42
22:AD:22:G:O2'	22:AD:23:C:O5'	2.36	0.42
23:A1:4:A:H4'	23:A1:5:A:H5'	2.01	0.42
24:BA:25:U:C5	24:BA:26:G:C6	3.08	0.42
24:BA:196:A:H5'	24:BA:197:A:OP2	2.19	0.42
24:BA:256:A:O2'	24:BA:257:A:H5'	2.20	0.42
24:BA:560:C:H2'	24:BA:561:G:O4'	2.19	0.42
24:BA:684:G:C2	24:BA:774:A:C2	3.07	0.42
24:BA:710:G:O2'	24:BA:711:G:H5'	2.19	0.42
24:BA:1244:G:H2'	24:BA:1245:G:H5'	2.01	0.42
24:BA:1699:G:O2'	24:BA:1700:A:P	2.77	0.42
24:BA:1761:C:H42	24:BA:1762:A:H61	1.67	0.42
24:BA:1772:G:N2	24:BA:1774:C:C5'	2.83	0.42
24:BA:1897:G:H2'	24:BA:1898:U:C6	2.54	0.42
24:BA:2016:U:H1'	50:B5:6:VAL:CG1	2.49	0.42
24:BA:2311:A:H3'	24:BA:2312:U:C6	2.51	0.42
24:BA:2331:G:N3	24:BA:2336:A:H2	2.17	0.42
24:BA:2346:A:O2'	24:BA:2347:C:P	2.77	0.42
24:BA:2393:A:OP1	53:B8:30:ARG:HB2	2.19	0.42
24:BA:2590:A:OP2	26:BD:237:GLU:HB3	2.19	0.42
24:BA:2681:C:C5	24:BA:2727:G:N2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2849:U:O2'	24:BA:2850:A:P	2.76	0.42
25:BB:95:U:H2'	25:BB:96:G:C8	2.55	0.42
26:BD:7:LYS:NZ	26:BD:7:LYS:HB3	2.34	0.42
26:BD:61:LEU:HD12	26:BD:61:LEU:HA	1.65	0.42
27:BE:7:VAL:HA	27:BE:194:GLY:O	2.19	0.42
28:BF:18:ARG:CG	28:BF:19:GLU:N	2.66	0.42
28:BF:105:VAL:C	28:BF:107:LYS:N	2.77	0.42
29:BG:67:LYS:NZ	49:B4:2:LYS:HB3	2.34	0.42
29:BG:129:GLY:O	29:BG:130:ASN:OD1	2.38	0.42
29:BG:129:GLY:C	29:BG:130:ASN:CG	2.88	0.42
29:BG:145:THR:O	29:BG:146:TYR:HB3	2.20	0.42
30:BH:51:ARG:CZ	30:BH:52:VAL:H	2.32	0.42
30:BH:103:LEU:HD23	30:BH:115:VAL:O	2.18	0.42
30:BH:130:ARG:O	30:BH:130:ARG:HD3	2.19	0.42
31:BK:5:LEU:CD1	31:BK:19:VAL:HG12	2.49	0.42
31:BK:67:ARG:C	31:BK:69:LYS:H	2.27	0.42
32:BM:113:GLY:HA2	32:BM:116:LEU:HD12	2.01	0.42
34:BO:101:VAL:CG1	34:BO:102:ARG:H	2.32	0.42
35:BP:72:LYS:O	35:BP:93:TYR:HB3	2.18	0.42
36:B0:38:VAL:HG12	36:B0:42:LYS:HE3	2.02	0.42
44:BV:133:ILE:O	44:BV:135:GLU:N	2.53	0.42
44:BV:171:ILE:HD13	44:BV:172:ALA:N	2.33	0.42
49:B4:11:PRO:HB2	49:B4:12:ALA:H	1.65	0.42
1:CA:254:G:OP1	17:CT:67:LYS:O	2.36	0.42
1:CA:305:G:H5"	1:CA:306:G:OP1	2.19	0.42
1:CA:779:C:O2'	1:CA:780:A:H5'	2.19	0.42
1:CA:948:C:O2'	1:CA:949:A:H5'	2.19	0.42
1:CA:1177:G:C2	1:CA:1181:G:O6	2.72	0.42
1:CA:1224:G:HO2'	1:CA:1225:A:P	2.33	0.42
1:CA:1503:A:O2'	1:CA:1504:G:OP1	2.37	0.42
2:CE:142:LEU:O	2:CE:145:LEU:HB2	2.19	0.42
2:CE:221:LEU:HD13	2:CE:221:LEU:C	2.43	0.42
8:CK:85:ARG:HA	8:CK:135:CYS:HB3	2.02	0.42
9:CL:71:SER:O	9:CL:74:ILE:N	2.52	0.42
14:CQ:40:CYS:C	14:CQ:42:ILE:H	2.27	0.42
15:CR:8:LYS:NZ	15:CR:31:LEU:HD11	2.34	0.42
16:CS:83:GLU:HG3	16:CS:84:ALA:N	2.33	0.42
18:CU:21:LYS:O	18:CU:22:VAL:C	2.63	0.42
21:CX:5:ASP:O	21:CX:11:GLY:HA3	2.20	0.42
24:DA:70:G:H21	24:DA:71:A:N6	2.16	0.42
24:DA:141(A):C:H2'	24:DA:142:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:363:G:O2'	24:DA:363(A):A:H5'	2.18	0.42
24:DA:372:G:H2'	24:DA:373:U:OP2	2.18	0.42
24:DA:718:A:C2'	24:DA:719:C:H5'	2.49	0.42
24:DA:900:A:N3	24:DA:900:A:H2'	2.34	0.42
24:DA:1246:A:C2'	24:DA:1247:A:O5'	2.67	0.42
24:DA:1288:U:H5"	24:DA:1289:C:OP2	2.19	0.42
24:DA:1530:G:O6	24:DA:1542:G:N2	2.53	0.42
24:DA:1683:C:H2'	24:DA:1684:C:H6	1.82	0.42
24:DA:2177:C:N4	24:DA:2178:C:N4	2.68	0.42
24:DA:2607:G:H2'	24:DA:2608:G:O4'	2.19	0.42
24:DA:2637:U:H5"	27:DE:82:ARG:HH21	1.84	0.42
24:DA:2746:U:H2'	24:DA:2747:G:H5'	2.02	0.42
29:DG:73:ALA:O	29:DG:84:LYS:O	2.38	0.42
29:DG:83:ARG:CB	29:DG:86:MET:HE3	2.49	0.42
29:DG:114:ILE:HG22	29:DG:117:PHE:HB2	2.01	0.42
29:DG:117:PHE:CE1	29:DG:119:GLY:CA	3.03	0.42
33:DN:1:MET:HG2	33:DN:67:LYS:HG2	2.02	0.42
34:DO:26:GLY:C	34:DO:28:GLY:H	2.27	0.42
34:DO:120:ALA:HB1	34:DO:138:LEU:CB	2.49	0.42
35:DP:20:ALA:C	35:DP:21:THR:HG23	2.43	0.42
37:DQ:15:ARG:O	37:DQ:19:LYS:HD3	2.20	0.42
37:DQ:64:GLU:O	37:DQ:68:GLN:HG3	2.19	0.42
38:DR:54:ARG:NH1	38:DR:54:ARG:CG	2.80	0.42
38:DR:54:ARG:HA	38:DR:59:THR:HG23	2.02	0.42
38:DR:110:ILE:CG2	38:DR:111:ARG:N	2.82	0.42
39:D1:113:ALA:C	39:D1:115:ALA:H	2.28	0.42
40:D2:25:LEU:H	40:D2:92:THR:CG2	2.29	0.42
40:D2:59:ALA:HA	40:D2:95:LEU:O	2.19	0.42
46:DZ:29:GLY:C	46:DZ:31:GLY:H	2.27	0.42
46:DZ:72:GLU:O	46:DZ:75:GLU:HB2	2.19	0.42
50:D5:20:ARG:HA	50:D5:23:HIS:CE1	2.54	0.42
53:D8:28:GLY:O	53:D8:29:LYS:O	2.37	0.42
53:D8:53:PRO:HD2	53:D8:54:GLU:H	1.84	0.42
22:CB:20:G:N2	22:CB:57:C:O2	2.52	0.42
1:AA:81:G:N1	1:AA:89:U:C2	2.87	0.42
1:AA:147:G:O2'	1:AA:148:G:H5'	2.20	0.42
1:AA:266:G:O2'	1:AA:267:C:P	2.78	0.42
1:AA:496:A:H2'	1:AA:496:A:N3	2.34	0.42
1:AA:703:G:O2'	1:AA:704:A:OP2	2.31	0.42
1:AA:1021:G:H5'	1:AA:1021:G:H8	1.85	0.42
1:AA:1032:A:H5"	1:AA:1032(A):G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1037:C:C2'	1:AA:1038:C:O4'	2.65	0.42
1:AA:1174:G:H2'	1:AA:1175:G:C8	2.55	0.42
1:AA:1190:G:P	3:AF:5:ILE:HG23	2.59	0.42
1:AA:1324:A:OP2	13:AP:99:ARG:NH2	2.53	0.42
1:AA:1372:U:O2'	1:AA:1373:G:H5'	2.19	0.42
1:AA:1442:G:N7	1:AA:1446:A:N1	2.67	0.42
1:AA:1443:G:N7	38:BR:118:ARG:CB	2.81	0.42
2:AE:59:GLU:O	2:AE:63:MET:N	2.45	0.42
2:AE:112:VAL:O	2:AE:115:LEU:HB3	2.20	0.42
3:AF:155:GLY:HA2	3:AF:164:ARG:H	1.84	0.42
3:AF:178:LEU:C	3:AF:180:ALA:N	2.77	0.42
4:AG:31:CYS:O	4:AG:33:MET:O	2.38	0.42
10:AM:7:LYS:HG3	10:AM:71:LEU:HD13	2.02	0.42
16:AS:66:PRO:O	16:AS:67:THR:O	2.38	0.42
17:AT:7:THR:CG2	17:AT:8:GLY:N	2.81	0.42
19:AV:46:GLY:HA2	19:AV:62:ILE:O	2.19	0.42
20:AW:41:ILE:HG22	20:AW:88:VAL:HG23	2.00	0.42
20:AW:97:ALA:O	20:AW:99:LEU:HG	2.19	0.42
22:AC:31:G:C5	22:AC:32:C:C5	3.08	0.42
23:A1:4:A:H1'	23:A1:5:A:C8	2.55	0.42
24:BA:84:A:H1'	24:BA:85:G:O4'	2.20	0.42
24:BA:534:U:H2'	24:BA:535:C:C6	2.53	0.42
24:BA:724:U:H2'	24:BA:725:G:O4'	2.20	0.42
24:BA:736:C:H2'	24:BA:737:C:C6	2.54	0.42
24:BA:775:G:O5'	24:BA:777:A:H1'	2.19	0.42
24:BA:892:G:H3'	24:BA:893:C:H6	1.83	0.42
24:BA:912:C:O2'	24:BA:913:U:H5'	2.19	0.42
24:BA:1543:A:O2'	24:BA:1545:A:H4'	2.19	0.42
24:BA:1682:G:H2'	24:BA:1683:C:C6	2.54	0.42
24:BA:1773:A:N7	24:BA:1829:A:H1'	2.33	0.42
24:BA:1884:A:H2'	24:BA:1885:A:O5'	2.19	0.42
24:BA:2035:G:C4'	24:BA:2036:C:OP2	2.67	0.42
24:BA:2157:G:O2'	24:BA:2158:A:O4'	2.35	0.42
24:BA:2296:U:O2	24:BA:2333:A:N3	2.53	0.42
24:BA:2531:A:H61	24:BA:2662:A:H61	1.68	0.42
24:BA:2532:G:H4'	24:BA:2657:A:N1	2.35	0.42
24:BA:2615:U:H2'	24:BA:2616:C:C6	2.54	0.42
24:BA:2727:G:O3'	33:BN:70:LYS:HE2	2.18	0.42
26:BD:69:ARG:NH1	26:BD:128:GLY:O	2.46	0.42
26:BD:94:LEU:C	26:BD:94:LEU:HD23	2.43	0.42
26:BD:264:LYS:HG2	26:BD:266:SER:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:53:THR:HG23	28:BF:55:GLY:H	1.84	0.42
28:BF:72:ARG:HB3	28:BF:72:ARG:NH1	2.33	0.42
29:BG:16:ARG:NH2	29:BG:31:VAL:HG11	2.31	0.42
29:BG:145:THR:HG23	49:B4:28:LYS:HE2	2.01	0.42
30:BH:54:ARG:HH11	30:BH:65:HIS:CE1	2.38	0.42
35:BP:17:LEU:HD23	35:BP:17:LEU:N	2.35	0.42
35:BP:80:GLU:CD	35:BP:80:GLU:N	2.78	0.42
35:BP:118:LEU:HD12	35:BP:131:ILE:HG23	2.00	0.42
35:BP:132:VAL:CG1	44:BV:81:ARG:NH2	2.82	0.42
37:BQ:29:PHE:CD2	37:BQ:30:ARG:N	2.88	0.42
37:BQ:66:ALA:O	37:BQ:69:VAL:N	2.53	0.42
40:B2:12:TYR:CZ	40:B2:22:VAL:HG23	2.54	0.42
40:B2:73:SER:HB2	40:B2:83:ARG:HA	2.01	0.42
42:BT:35:THR:H	42:BT:38:GLU:CG	2.30	0.42
42:BT:35:THR:C	42:BT:37:THR:H	2.28	0.42
43:BU:39:VAL:HG23	43:BU:40:GLU:N	2.34	0.42
43:BU:74:PRO:O	43:BU:80:GLY:CA	2.68	0.42
44:BV:15:PRO:CG	44:BV:16:SER:H	2.30	0.42
44:BV:75:ASN:HA	44:BV:75:ASN:HD22	1.71	0.42
44:BV:111:VAL:HG21	44:BV:145:GLU:HB3	2.01	0.42
46:BZ:73:LEU:HB3	46:BZ:90:ILE:CD1	2.48	0.42
53:B8:39:LYS:O	53:B8:40:GLU:CB	2.67	0.42
1:CA:129(A):G:N2	1:CA:191(A):G:C5	2.87	0.42
1:CA:183:G:H2'	1:CA:184:G:O4'	2.19	0.42
1:CA:219:C:O5'	1:CA:219:C:H6	2.03	0.42
1:CA:643:C:H5'	8:CK:31:PHE:CE1	2.55	0.42
1:CA:660:G:OP1	15:CR:5:LYS:NZ	2.44	0.42
1:CA:789:U:H3'	1:CA:789:U:O2	2.20	0.42
1:CA:965:A:H4'	1:CA:966:G:OP1	2.19	0.42
1:CA:1221:G:H4'	19:CV:53:ASN:O	2.19	0.42
1:CA:1222:G:H2'	1:CA:1223:C:O4'	2.20	0.42
1:CA:1398:A:N1	5:CH:19:MET:HE3	2.34	0.42
1:CA:1536:C:OP1	1:CA:1536:C:C6	2.72	0.42
2:CE:83:MET:C	2:CE:85:ALA:H	2.27	0.42
2:CE:163:PHE:CD2	2:CE:185:ILE:HD12	2.54	0.42
3:CF:83:ARG:O	3:CF:86:VAL:HG22	2.20	0.42
4:CG:59:ARG:HA	4:CG:59:ARG:NE	2.34	0.42
4:CG:120:LEU:HD23	4:CG:120:LEU:HA	1.83	0.42
5:CH:31:LEU:HD23	5:CH:45:PHE:HD1	1.85	0.42
5:CH:56:GLN:C	5:CH:58:ALA:N	2.78	0.42
6:CI:48:LEU:HD23	6:CI:48:LEU:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:108:ALA:C	7:CJ:110:GLN:N	2.77	0.42
9:CL:8:GLY:CA	9:CL:79:LEU:HD12	2.49	0.42
9:CL:88:TYR:O	9:CL:89:ASN:HB2	2.20	0.42
9:CL:128:ARG:HH21	22:CC:35:A:P	2.42	0.42
13:CP:88:ARG:HD2	13:CP:88:ARG:O	2.19	0.42
14:CQ:9:LYS:HB3	14:CQ:9:LYS:HE2	1.85	0.42
14:CQ:48:ALA:HA	14:CQ:53:LEU:HD12	2.02	0.42
18:CU:29:PHE:N	18:CU:29:PHE:HD2	2.17	0.42
18:CU:74:ARG:NH2	18:CU:81:PHE:HA	2.35	0.42
19:CV:18:LYS:O	19:CV:18:LYS:HD2	2.19	0.42
19:CV:21:GLU:HG3	19:CV:22:LEU:CD1	2.49	0.42
19:CV:30:LEU:HD22	19:CV:30:LEU:C	2.44	0.42
22:CD:48:C:N3	22:CD:59:A:C8	2.87	0.42
24:DA:85:G:N3	24:DA:103:A:C2	2.87	0.42
24:DA:242:G:HO2'	24:DA:254:G:H1	1.65	0.42
24:DA:565:C:O2'	24:DA:566:U:H5'	2.19	0.42
24:DA:857:C:H5'	45:D3:77:ARG:HH22	1.84	0.42
24:DA:1011:G:HO2'	24:DA:1013:C:H5"	1.84	0.42
24:DA:1045:A:O2'	24:DA:1046:A:OP2	2.36	0.42
24:DA:1055:G:O2'	24:DA:1085:A:N1	2.39	0.42
24:DA:1056:G:H4'	24:DA:1057:A:H8	1.84	0.42
24:DA:1171:G:H3'	24:DA:1173:G:C5'	2.49	0.42
24:DA:1478:G:O2'	24:DA:1558:A:H2	2.02	0.42
24:DA:1537:C:C5	24:DA:1538:G:C5	3.07	0.42
24:DA:1794:U:O4'	24:DA:1900:A:C2	2.73	0.42
24:DA:2082:A:H2'	24:DA:2083:G:O4'	2.20	0.42
24:DA:2151:G:H2'	24:DA:2152:G:C8	2.54	0.42
24:DA:2517:C:C4	24:DA:2542:A:C6	3.08	0.42
24:DA:2570:G:H2'	24:DA:2571:C:C6	2.55	0.42
24:DA:2615:U:H2'	24:DA:2616:C:C6	2.55	0.42
24:DA:2618:G:H2'	24:DA:2619:C:C6	2.55	0.42
24:DA:2756:U:C4'	24:DA:2757:A:OP1	2.67	0.42
24:DA:2768:C:C4	24:DA:2769:C:C5	3.07	0.42
24:DA:2816:C:O3'	36:D0:99:LYS:NZ	2.52	0.42
25:DB:111:U:H2'	25:DB:112:G:H8	1.83	0.42
26:DD:33:LEU:O	26:DD:35:LYS:N	2.52	0.42
27:DE:28:ALA:HB3	27:DE:93:VAL:CG2	2.46	0.42
27:DE:31:CYS:HB3	27:DE:49:LEU:HG	2.01	0.42
27:DE:70:ALA:O	27:DE:71:GLY:C	2.63	0.42
27:DE:143:ASN:HB2	27:DE:147:PRO:HD2	2.00	0.42
27:DE:176:ILE:HD12	27:DE:176:ILE:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:123:LEU:HD12	28:DF:124:LEU:H	1.82	0.42
30:DH:58:GLU:O	30:DH:60:ARG:N	2.53	0.42
31:DK:88:ILE:HD11	31:DK:122:GLU:C	2.44	0.42
34:DO:26:GLY:C	34:DO:28:GLY:N	2.78	0.42
34:DO:52:GLU:OE2	34:DO:58:THR:N	2.52	0.42
34:DO:64:LYS:HG3	53:D8:25:MET:CE	2.50	0.42
35:DP:132:VAL:HG11	44:DV:81:ARG:CZ	2.50	0.42
41:DS:19:LEU:O	41:DS:22:ASP:HB2	2.19	0.42
43:DU:60:PHE:N	43:DU:60:PHE:CD2	2.87	0.42
44:DV:70:LEU:HD11	44:DV:98:MET:CE	2.49	0.42
47:DW:27:GLU:N	47:DW:27:GLU:CD	2.77	0.42
52:D7:9:ARG:NH1	52:D7:47:ARG:HG3	2.35	0.42
1:AA:428:G:O4’	1:AA:430:A:C8	2.72	0.42
1:AA:533:A:O2’	1:AA:535:A:OP2	2.38	0.42
1:AA:652:U:O2’	1:AA:653:A:H5”	2.20	0.42
1:AA:812:C:O2’	1:AA:813:U:OP2	2.37	0.42
1:AA:860:A:H2’	1:AA:861:G:O4’	2.20	0.42
1:AA:914:A:O2’	1:AA:915:A:H5’	2.19	0.42
1:AA:971:G:OP2	1:AA:1231:G:N2	2.34	0.42
1:AA:1031:G:OP1	1:AA:1031:G:N9	2.52	0.42
1:AA:1055:A:O3’	3:AF:161:GLU:OE2	2.37	0.42
1:AA:1059:C:O2’	10:AM:53:PRO:HD3	2.20	0.42
1:AA:1194:U:H2’	1:AA:1195:C:O4’	2.20	0.42
1:AA:1316:G:H22	1:AA:1319:A:P	2.43	0.42
1:AA:1321:C:C5	1:AA:1322:C:C5	3.08	0.42
3:AF:34:LEU:HG	3:AF:38:ARG:NH2	2.34	0.42
3:AF:134:ILE:HD11	3:AF:153:VAL:HG21	2.02	0.42
4:AG:27:TYR:O	4:AG:28:SER:OG	2.35	0.42
4:AG:49:ARG:O	4:AG:50:ARG:C	2.63	0.42
5:AH:3:GLU:O	5:AH:5:ASP:N	2.44	0.42
5:AH:108:ALA:O	5:AH:109:ILE:C	2.62	0.42
6:AI:14:LEU:HD23	6:AI:18:GLN:OE1	2.20	0.42
7:AJ:63:LYS:O	7:AJ:66:VAL:HB	2.19	0.42
9:AL:79:LEU:O	9:AL:83:ARG:N	2.49	0.42
11:AN:48:ILE:HG22	11:AN:48:ILE:O	2.20	0.42
13:AP:25:ILE:HG22	13:AP:26:GLY:N	2.33	0.42
14:AQ:26:ARG:HD3	14:AQ:43:CYS:CB	2.46	0.42
15:AR:72:ARG:HH11	15:AR:72:ARG:HG2	1.84	0.42
17:AT:69:LYS:H	17:AT:70:ARG:HD2	1.85	0.42
20:AW:60:GLU:O	20:AW:61:SER:C	2.63	0.42
22:AC:26:G:H1	22:AC:44:A:H61	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AC:50:U:H2'	22:AC:51:C:H6	1.85	0.42
22:AD:58:A:OP2	22:AD:58:A:H8	2.02	0.42
24:BA:12:U:O2	24:BA:12:U:C2'	2.67	0.42
24:BA:234:C:H2'	24:BA:235:U:C6	2.54	0.42
24:BA:346:A:H2'	24:BA:346:A:N3	2.34	0.42
24:BA:363:G:H8	24:BA:363:G:OP2	2.02	0.42
24:BA:363(B):G:H2'	24:BA:363(C):G:O4'	2.19	0.42
24:BA:404:C:O2'	24:BA:405:U:P	2.77	0.42
24:BA:718:A:H3'	24:BA:719:C:H6	1.84	0.42
24:BA:1109:C:C4	24:BA:1110:G:C2	3.08	0.42
24:BA:1111:A:C2'	24:BA:1112:G:H4'	2.50	0.42
24:BA:1291:C:H4'	24:BA:1536:A:OP1	2.20	0.42
24:BA:1331:A:H2'	24:BA:1333:C:C5	2.54	0.42
24:BA:1341:U:O2	42:BT:80:ILE:HD13	2.19	0.42
24:BA:1842:G:H2'	24:BA:1843:C:C6	2.55	0.42
24:BA:1936:A:H4'	24:BA:1937:A:OP2	2.17	0.42
24:BA:2009:G:C6	24:BA:2010:G:N7	2.87	0.42
24:BA:2033:A:H2'	24:BA:2035:G:OP2	2.20	0.42
24:BA:2124:G:C2	24:BA:2125:G:H1'	2.55	0.42
24:BA:2336:A:H61	45:B3:43:THR:CG2	2.31	0.42
24:BA:2425:A:H5'	24:BA:2427:C:O4'	2.19	0.42
24:BA:2807:G:H3'	24:BA:2808:U:H5"	2.02	0.42
24:BA:2862:G:H2'	24:BA:2863:C:C6	2.54	0.42
26:BD:239:ARG:O	26:BD:240:ALA:HB2	2.19	0.42
28:BF:132:VAL:HG13	28:BF:133:ASN:OD1	2.18	0.42
30:BH:11:VAL:O	30:BH:11:VAL:HG13	2.19	0.42
30:BH:86:GLU:HA	30:BH:132:ARG:CB	2.49	0.42
30:BH:137:ASP:CB	30:BH:140:LYS:HE2	2.47	0.42
31:BK:32:PRO:C	31:BK:34:GLY:N	2.77	0.42
31:BK:117:GLU:OE1	31:BK:118:LYS:HG2	2.19	0.42
34:BO:49:ARG:HB3	53:B8:59:LYS:HE2	2.01	0.42
35:BP:77:LYS:CD	35:BP:82:ARG:HA	2.49	0.42
36:B0:67:LEU:HD23	36:B0:76:VAL:HG21	2.02	0.42
36:B0:105:ARG:HH11	36:B0:105:ARG:HG2	1.83	0.42
38:BR:57:PHE:O	38:BR:59:THR:N	2.49	0.42
44:BV:19:ARG:HH12	44:BV:84:GLU:HB2	1.84	0.42
44:BV:138:GLU:OE2	44:BV:156:LYS:HG3	2.19	0.42
49:B4:48:ARG:O	49:B4:49:PHE:C	2.63	0.42
53:B8:60:LEU:C	53:B8:61:LEU:CG	2.91	0.42
1:CA:50:A:H4'	1:CA:51:A:H5'	2.01	0.42
1:CA:530:G:N2	1:CA:1492:A:H61	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:626:U:H2'	1:CA:627:G:O4'	2.20	0.42
1:CA:644:G:O2'	1:CA:645:C:H5'	2.19	0.42
1:CA:769:G:H4'	1:CA:1513:A:H4'	2.01	0.42
1:CA:960:U:N3	1:CA:1225:A:C5	2.84	0.42
1:CA:1054:C:N3	22:CB:35:C:H1'	2.35	0.42
1:CA:1300:G:O2'	1:CA:1301:U:O5'	2.29	0.42
2:CE:5:ILE:HB	2:CE:221:LEU:HD23	2.01	0.42
4:CG:206:PHE:CD2	4:CG:207:TYR:HD1	2.37	0.42
5:CH:71:LEU:HD11	5:CH:113:ALA:O	2.20	0.42
7:CJ:15:ASP:OD1	7:CJ:23:VAL:HG11	2.19	0.42
8:CK:20:TYR:CD1	8:CK:65:TYR:HD2	2.35	0.42
9:CL:6:GLY:HA3	9:CL:84:ALA:HB2	2.01	0.42
9:CL:23:ASN:ND2	9:CL:23:ASN:N	2.60	0.42
12:CO:109:GLY:HA3	12:CO:121:GLY:O	2.20	0.42
13:CP:93:ARG:NH1	24:DA:887:A:OP1	2.52	0.42
14:CQ:39:LEU:HB3	14:CQ:43:CYS:CB	2.43	0.42
15:CR:18:PHE:O	15:CR:19:PRO:C	2.62	0.42
15:CR:64:ARG:CD	15:CR:68:ARG:NH2	2.82	0.42
19:CV:4:SER:O	19:CV:5:LEU:HD13	2.20	0.42
23:C1:19:A:C2	22:CB:38:A:N3	2.87	0.42
24:DA:99:U:H1'	24:DA:102:G:C5	2.54	0.42
24:DA:280:C:H2'	24:DA:281:G:H5'	2.00	0.42
24:DA:307:G:N3	24:DA:330:A:N6	2.67	0.42
24:DA:308:G:C8	24:DA:501:A:O4'	2.73	0.42
24:DA:458:G:O2'	24:DA:459:U:P	2.77	0.42
24:DA:556:G:H8	24:DA:556:G:O5'	2.02	0.42
24:DA:686:G:O6	52:D7:12:ARG:CG	2.63	0.42
24:DA:747:U:C4	24:DA:2613:U:C5	3.08	0.42
24:DA:821:A:H5"	24:DA:822:U:C6	2.55	0.42
24:DA:1050:A:H2'	24:DA:1051:G:O4'	2.19	0.42
24:DA:1060:U:C2'	24:DA:1061:U:H5"	2.50	0.42
24:DA:1077:A:N3	24:DA:1077:A:C2'	2.83	0.42
24:DA:1381:G:H2'	24:DA:1382:G:H5'	2.00	0.42
24:DA:1758:G:N2	24:DA:2696:U:H4'	2.34	0.42
24:DA:1935:G:H1	24:DA:1962:C:H2'	1.84	0.42
24:DA:1945:G:H2'	24:DA:1946:U:H6	1.85	0.42
24:DA:2275:C:O2	35:DP:83:MET:HG3	2.19	0.42
24:DA:2544:G:H8	24:DA:2544:G:O5'	2.02	0.42
25:DB:42:C:H4'	29:DG:67:LYS:CD	2.45	0.42
25:DB:50:G:H5"	37:DQ:61:ASN:ND2	2.35	0.42
26:DD:2:ALA:O	26:DD:3:VAL:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:25:THR:HG23	26:DD:27:THR:HB	2.02	0.42
26:DD:75:ILE:HG21	26:DD:99:ASP:HB2	2.01	0.42
26:DD:158:ALA:HB3	26:DD:161:THR:CG2	2.49	0.42
27:DE:7:VAL:HG11	38:DR:1:MET:HE3	2.00	0.42
27:DE:36:ARG:HH11	27:DE:36:ARG:CB	2.28	0.42
27:DE:72:VAL:O	27:DE:73:GLU:C	2.63	0.42
27:DE:117:MET:HA	27:DE:122:PHE:N	2.35	0.42
28:DF:62:ARG:NH1	28:DF:62:ARG:CB	2.82	0.42
30:DH:26:VAL:CG1	30:DH:33:LEU:HB2	2.50	0.42
31:DK:8:PRO:HG3	31:DK:14:ASP:CB	2.48	0.42
31:DK:82:ARG:HD3	31:DK:82:ARG:HA	1.77	0.42
32:DM:43:THR:HA	32:DM:44:PRO:HD2	1.92	0.42
32:DM:75:TYR:HA	32:DM:82:LEU:HA	2.01	0.42
33:DN:20:MET:O	33:DN:41:ALA:CB	2.67	0.42
33:DN:104:ARG:C	33:DN:106:LEU:N	2.77	0.42
34:DO:65:ARG:C	34:DO:66:GLY:O	2.59	0.42
34:DO:114:ILE:CD1	34:DO:130:PHE:CE1	2.98	0.42
40:D2:38:LEU:CD1	40:D2:55:ALA:HB1	2.50	0.42
44:DV:155:LEU:O	44:DV:156:LYS:C	2.62	0.42
49:D4:12:ALA:HB1	49:D4:30:GLU:N	2.35	0.42
49:D4:54:GLY:HA2	49:D4:57:GLU:CG	2.50	0.42
51:D6:50:ARG:HH11	51:D6:50:ARG:HG2	1.84	0.42
52:D7:12:ARG:HH21	52:D7:44:PRO:HB3	1.85	0.42
22:CB:52:C:H6	22:CB:52:C:O5'	2.02	0.42
1:AA:186(C):G:O2'	1:AA:186(D):C:H5'	2.19	0.42
1:AA:300:A:H8	1:AA:300:A:O5'	2.03	0.42
1:AA:754:C:C2'	1:AA:755:G:OP1	2.68	0.42
1:AA:974:A:N3	14:AQ:31:ARG:NE	2.67	0.42
1:AA:1253:G:H2'	1:AA:1254:C:C6	2.55	0.42
1:AA:1298:C:C5	7:AJ:114:ARG:HD2	2.54	0.42
7:AJ:76:ARG:HD2	7:AJ:89:MET:HG3	2.02	0.42
7:AJ:95:ARG:C	7:AJ:97:GLN:N	2.73	0.42
12:AO:20:LYS:N	12:AO:20:LYS:CD	2.81	0.42
15:AR:54:ARG:NH1	15:AR:58:MET:HE1	2.34	0.42
16:AS:4:ILE:HB	16:AS:66:PRO:HA	2.02	0.42
16:AS:43:LYS:HA	16:AS:48:TRP:HB3	2.01	0.42
18:AU:50:ILE:CD1	18:AU:70:ILE:HG21	2.49	0.42
19:AV:24:ALA:O	19:AV:25:LYS:HG3	2.19	0.42
22:AC:59:A:C2'	22:AC:60:U:H5'	2.49	0.42
22:AD:19:G:H22	24:BA:2169:A:H62	1.68	0.42
24:BA:85:G:H2'	24:BA:86:C:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(U):C:H5	46:BZ:96:LYS:HZ2	1.67	0.42
24:BA:292:C:O2'	24:BA:293:U:H5'	2.19	0.42
24:BA:329:G:O6	43:BU:19:LYS:HA	2.20	0.42
24:BA:391:G:O2'	24:BA:410:G:OP1	2.33	0.42
24:BA:788:A:O2'	24:BA:789:A:P	2.78	0.42
24:BA:979:G:N2	24:BA:985:C:C4	2.87	0.42
24:BA:1102:C:C2'	24:BA:1103:A:H5"	2.49	0.42
24:BA:1794:U:H2'	24:BA:1795:C:H6	1.85	0.42
24:BA:2355:C:C4'	45:B3:36:ILE:HD11	2.50	0.42
24:BA:2532:G:H2'	24:BA:2533:A:O4'	2.19	0.42
26:BD:67:PHE:CZ	26:BD:157:ARG:CZ	3.02	0.42
26:BD:165:ILE:HD13	26:BD:175:LEU:CD2	2.50	0.42
26:BD:183:ARG:HG3	26:BD:270:ILE:HG23	2.02	0.42
28:BF:77:ASP:OD1	28:BF:77:ASP:N	2.52	0.42
30:BH:50:VAL:O	30:BH:50:VAL:HG13	2.19	0.42
30:BH:129:THR:O	30:BH:130:ARG:HB2	2.18	0.42
32:BM:69:GLN:O	32:BM:70:LYS:C	2.62	0.42
34:BO:2:LYS:HE2	34:BO:4:SER:OG	2.20	0.42
34:BO:90:ARG:HG3	34:BO:91:PHE:HD1	1.83	0.42
35:BP:67:ARG:NH1	35:BP:102:VAL:HG21	2.35	0.42
35:BP:108:GLY:O	35:BP:109:VAL:HG22	2.19	0.42
36:B0:57:ARG:C	36:B0:59:ASP:H	2.27	0.42
37:BQ:23:ARG:CB	37:BQ:86:ALA:HB2	2.48	0.42
37:BQ:77:ALA:O	37:BQ:80:LEU:N	2.52	0.42
38:BR:102:ILE:O	38:BR:103:ARG:C	2.63	0.42
38:BR:126:ALA:C	38:BR:128:GLU:N	2.76	0.42
39:B1:77:SER:C	39:B1:79:PHE:H	2.27	0.42
41:BS:13:SER:HA	41:BS:14:PRO:HD3	1.93	0.42
42:BT:3:THR:HA	42:BT:6:ASP:OD2	2.20	0.42
43:BU:72:VAL:CG2	43:BU:73:ARG:H	2.22	0.42
43:BU:101:LYS:O	43:BU:102:CYS:C	2.62	0.42
44:BV:128:VAL:HG23	44:BV:160:GLY:HA3	2.02	0.42
44:BV:168:GLU:N	44:BV:168:GLU:OE1	2.53	0.42
51:B6:11:LEU:N	51:B6:24:GLU:CD	2.78	0.42
53:B8:6:THR:HG21	53:B8:63:PRO:HG2	2.02	0.42
1:CA:198:G:H2'	1:CA:199:G:C8	2.55	0.42
1:CA:502:G:C5	1:CA:503:C:C5	3.07	0.42
1:CA:818:G:C3'	1:CA:819:A:C5'	2.97	0.42
1:CA:829:G:C2	1:CA:830:G:C8	3.07	0.42
1:CA:934:C:O2'	1:CA:935:A:P	2.77	0.42
1:CA:973:G:C4	10:CM:55:LYS:HE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1084:G:OP1	1:CA:1086:U:C2	2.72	0.42
2:CE:142:LEU:HD21	2:CE:146:GLN:HE21	1.84	0.42
2:CE:211:ILE:O	2:CE:215:LEU:HB2	2.20	0.42
3:CF:23:TYR:CD2	3:CF:24:ALA:N	2.88	0.42
7:CJ:6:ARG:O	7:CJ:7:ALA:C	2.62	0.42
12:CO:53:ARG:HH12	12:CO:92:ASP:CB	2.33	0.42
12:CO:61:THR:C	12:CO:63:GLY:H	2.27	0.42
14:CQ:15:LYS:HD3	14:CQ:15:LYS:HA	1.86	0.42
16:CS:45:THR:CG2	16:CS:46:PRO:HD2	2.47	0.42
22:CD:18:G:O3'	22:CD:60:U:O2	2.37	0.42
24:DA:30:G:H2'	24:DA:31:C:O4'	2.20	0.42
24:DA:34:C:H6	24:DA:454:A:HO2'	1.62	0.42
24:DA:363(B):G:H2'	24:DA:363(C):G:H8	1.85	0.42
24:DA:527:C:OP2	24:DA:2779:U:O4	2.37	0.42
24:DA:729:G:OP1	26:DD:10:THR:OG1	2.30	0.42
24:DA:1496:A:O2'	24:DA:1497:U:C6	2.71	0.42
24:DA:1504:C:O2	24:DA:1504:C:H2'	2.18	0.42
24:DA:1535:U:C3'	24:DA:1536:A:C5'	2.92	0.42
24:DA:1548:C:H2'	24:DA:1549:C:H6	1.84	0.42
24:DA:1659:U:O2	24:DA:2712(A):A:H2	2.03	0.42
24:DA:2302:G:C6	24:DA:2315:G:C6	3.07	0.42
24:DA:2679:A:H5'	27:DE:165:VAL:HG11	2.01	0.42
25:DB:75:G:H1	25:DB:102:G:N2	2.16	0.42
26:DD:12:SER:O	26:DD:14:ARG:N	2.51	0.42
26:DD:71:ASP:CB	26:DD:103:ARG:HH22	2.32	0.42
27:DE:36:ARG:HB3	27:DE:36:ARG:NH1	2.31	0.42
27:DE:104:VAL:CG1	27:DE:188:VAL:HG23	2.49	0.42
29:DG:55:LYS:O	29:DG:59:GLU:HB2	2.19	0.42
29:DG:126:ASP:CG	29:DG:130:ASN:HB2	2.45	0.42
30:DH:105:LEU:CD1	30:DH:105:LEU:N	2.81	0.42
30:DH:136:ILE:O	30:DH:137:ASP:O	2.38	0.42
31:DK:131:LYS:HD2	31:DK:131:LYS:N	2.32	0.42
32:DM:52:VAL:CG1	32:DM:53:VAL:N	2.82	0.42
33:DN:61:VAL:O	33:DN:61:VAL:HG13	2.18	0.42
33:DN:116:SER:C	33:DN:118:ALA:N	2.76	0.42
34:DO:119:GLU:HA	34:DO:119:GLU:OE1	2.19	0.42
35:DP:27:VAL:HG11	35:DP:134:ARG:HG3	2.00	0.42
35:DP:51:ARG:O	35:DP:52:VAL:C	2.62	0.42
37:DQ:26:LEU:HB3	37:DQ:87:PHE:HA	2.02	0.42
37:DQ:52:SER:HB2	37:DQ:55:ALA:CB	2.49	0.42
39:D1:79:PHE:CD2	39:D1:83:LEU:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:D2:47:VAL:HG13	40:D2:48:GLY:N	2.26	0.42
43:DU:20:TYR:C	43:DU:21:LYS:O	2.62	0.42
43:DU:91:GLU:CG	43:DU:92:ASN:N	2.83	0.42
44:DV:34:ASN:OD1	44:DV:34:ASN:C	2.62	0.42
44:DV:68:PRO:HG2	44:DV:68:PRO:O	2.20	0.42
44:DV:82:ARG:HG3	44:DV:83:PRO:CD	2.50	0.42
45:D3:9:SER:O	45:D3:10:THR:O	2.37	0.42
46:DZ:56:GLN:HB2	46:DZ:57:GLU:H	1.48	0.42
46:DZ:66:HIS:C	46:DZ:68:PRO:CD	2.92	0.42
47:DW:4:SER:OG	47:DW:5:GLU:OE2	2.26	0.42
51:D6:25:LYS:HE2	51:D6:27:LYS:CD	2.49	0.42
1:AA:217:C:O2'	1:AA:218:C:H5'	2.20	0.42
1:AA:355:C:C4	1:AA:356:A:N7	2.88	0.42
1:AA:428:G:HO2'	1:AA:429:U:P	2.43	0.42
1:AA:430:A:OP1	4:AG:9:CYS:N	2.46	0.42
1:AA:554:C:C2	1:AA:555:C:C5	3.08	0.42
1:AA:608:A:H2'	1:AA:609:A:O4'	2.20	0.42
1:AA:806:C:O2'	1:AA:807:A:H5'	2.19	0.42
1:AA:1061:G:O4'	10:AM:56:HIS:ND1	2.53	0.42
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.20	0.42
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.53	0.42
2:AE:113:HIS:C	2:AE:115:LEU:N	2.77	0.42
2:AE:214:ILE:HD13	2:AE:214:ILE:HA	1.93	0.42
3:AF:70:VAL:O	3:AF:106:VAL:N	2.51	0.42
9:AL:92:TYR:O	9:AL:95:LYS:HD2	2.20	0.42
11:AN:15:ALA:O	11:AN:16:SER:HB2	2.20	0.42
12:AO:74:GLY:O	12:AO:102:ARG:NH1	2.52	0.42
13:AP:18:ALA:O	13:AP:19:LEU:C	2.63	0.42
15:AR:70:LEU:O	15:AR:73:GLU:HB2	2.20	0.42
17:AT:59:ILE:HD13	17:AT:73:VAL:HA	2.02	0.42
18:AU:53:ARG:O	18:AU:55:ARG:N	2.53	0.42
20:AW:14:LYS:HG3	20:AW:15:ARG:N	2.34	0.42
22:AC:47:U:OP2	22:AC:47:U:H4'	2.19	0.42
24:BA:479:A:HO2'	24:BA:481:G:H5"	1.77	0.42
24:BA:795:C:H2'	24:BA:796:C:H6	1.85	0.42
24:BA:975:G:C6	24:BA:976:C:C5	3.08	0.42
24:BA:1019:U:O2'	24:BA:1021:A:C2	2.53	0.42
24:BA:1248:G:H2'	39:B1:3:ARG:HA	2.01	0.42
24:BA:1575:C:H2'	24:BA:1576:U:O4'	2.20	0.42
24:BA:1754:C:OP1	38:BR:96:ARG:NH1	2.52	0.42
24:BA:1794:U:O2'	24:BA:1795:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2133:G:O2'	24:BA:2158:A:H2	2.01	0.42
24:BA:2173:A:OP1	24:BA:2174:C:C5	2.73	0.42
24:BA:2293:C:O3'	37:BQ:89:ARG:NH2	2.52	0.42
24:BA:2745:C:H2'	24:BA:2746:U:C6	2.54	0.42
25:BB:3:C:C2	25:BB:4:C:C5	3.08	0.42
25:BB:30:C:H2'	25:BB:31:C:O5'	2.18	0.42
25:BB:79:C:C2'	25:BB:80:U:H5'	2.50	0.42
27:BE:8:LYS:HB3	27:BE:193:GLY:N	2.35	0.42
27:BE:134:ILE:N	27:BE:134:ILE:HD13	2.35	0.42
28:BF:36:VAL:CG1	28:BF:183:VAL:HG11	2.50	0.42
30:BH:26:VAL:HG12	30:BH:32:GLU:N	2.34	0.42
30:BH:42:ARG:HA	30:BH:42:ARG:HD2	1.66	0.42
30:BH:68:THR:O	30:BH:69:ARG:C	2.61	0.42
30:BH:128:PRO:O	30:BH:130:ARG:N	2.52	0.42
31:BK:2:LYS:N	31:BK:20:ASP:HB2	2.35	0.42
32:BM:75:TYR:CE2	32:BM:77:GLY:HA2	2.55	0.42
33:BN:71:ARG:C	33:BN:73:ASP:N	2.78	0.42
35:BP:54:MET:O	35:BP:57:HIS:HB3	2.20	0.42
37:BQ:23:ARG:NH1	37:BQ:23:ARG:HG2	2.32	0.42
37:BQ:29:PHE:O	37:BQ:35:ILE:HA	2.20	0.42
37:BQ:35:ILE:O	37:BQ:35:ILE:HG23	2.19	0.42
40:B2:61:VAL:O	40:B2:93:GLU:O	2.38	0.42
40:B2:85:LYS:CD	40:B2:86:GLY:H	2.33	0.42
44:BV:19:ARG:NH1	44:BV:19:ARG:CG	2.82	0.42
44:BV:95:PRO:C	44:BV:96:VAL:HG23	2.34	0.42
44:BV:105:VAL:HG11	44:BV:140:ASP:N	2.33	0.42
46:BZ:67:ILE:N	46:BZ:68:PRO:CD	2.82	0.42
46:BZ:68:PRO:O	46:BZ:69:LYS:C	2.60	0.42
48:BX:4:LEU:O	48:BX:36:VAL:HA	2.19	0.42
50:B5:16:ARG:HD2	50:B5:20:ARG:HH12	1.85	0.42
51:B6:9:LEU:HB3	51:B6:27:LYS:HA	2.01	0.42
53:B8:14:VAL:CG1	53:B8:22:VAL:CG1	2.95	0.42
1:CA:20:U:O5'	1:CA:20:U:H6	2.03	0.42
1:CA:116:A:H8	1:CA:116:A:O5'	2.02	0.42
1:CA:310:G:OP2	16:CS:27:LYS:HE3	2.18	0.42
1:CA:321:A:O2'	1:CA:322:C:H5'	2.20	0.42
1:CA:632:A:C8	1:CA:633:G:C8	3.07	0.42
1:CA:687:A:HO2'	1:CA:688:G:P	2.43	0.42
1:CA:735:C:O2'	1:CA:736:C:H5'	2.19	0.42
1:CA:746:A:C2'	1:CA:747:C:H5'	2.50	0.42
1:CA:1359:C:H3'	14:CQ:35:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1368:G:OP1	9:CL:111:ARG:NH2	2.47	0.42
2:CE:97:TRP:HZ3	2:CE:172:ILE:HG22	1.85	0.42
2:CE:239:VAL:O	2:CE:240:GLN:C	2.62	0.42
3:CF:125:GLU:CD	3:CF:189:ALA:HA	2.44	0.42
4:CG:91:SER:O	4:CG:92:VAL:C	2.63	0.42
5:CH:56:GLN:C	5:CH:58:ALA:H	2.27	0.42
7:CJ:11:GLN:HG3	7:CJ:12:LEU:H	1.85	0.42
10:CM:49:VAL:HG11	14:CQ:41:ARG:O	2.19	0.42
15:CR:41:GLU:O	15:CR:42:HIS:C	2.63	0.42
20:CW:50:GLU:O	20:CW:51:GLU:C	2.62	0.42
20:CW:99:LEU:O	20:CW:100:ILE:CB	2.68	0.42
21:CX:2:GLY:C	21:CX:4:GLY:N	2.78	0.42
23:C1:13:A:O2'	23:C1:14:A:C8	2.72	0.42
24:DA:990:A:O5'	24:DA:991:C:OP2	2.37	0.42
24:DA:1301:A:O2'	24:DA:1302:A:C3'	2.58	0.42
24:DA:1417:C:O2'	24:DA:1418:G:H5'	2.20	0.42
24:DA:2011:U:H2'	24:DA:2012:G:C5'	2.46	0.42
24:DA:2660:A:C2	24:DA:2661:G:C4	3.08	0.42
24:DA:2803:C:C2	24:DA:2804:C:C5	3.08	0.42
27:DE:16:ARG:C	27:DE:17:ASP:CG	2.86	0.42
27:DE:35:GLN:HB3	27:DE:48:GLN:HB2	2.01	0.42
27:DE:76:ARG:C	27:DE:78:LEU:N	2.76	0.42
27:DE:128:SER:O	27:DE:129:HIS:HB2	2.19	0.42
27:DE:152:LYS:HG2	32:DM:78:TYR:CD1	2.55	0.42
28:DF:20:LEU:HD12	28:DF:21:ALA:N	2.26	0.42
28:DF:45:ARG:HH11	28:DF:45:ARG:HG2	1.83	0.42
28:DF:101:LEU:HD12	28:DF:102:PRO:N	2.33	0.42
28:DF:183:VAL:HG22	28:DF:184:TYR:N	2.35	0.42
29:DG:4:ASP:O	29:DG:5:VAL:HB	2.19	0.42
29:DG:99:MET:O	29:DG:103:LEU:HB2	2.20	0.42
34:DO:47:ASP:CG	34:DO:49:ARG:NH1	2.77	0.42
34:DO:49:ARG:HG2	34:DO:49:ARG:HH11	1.84	0.42
34:DO:135:LEU:HD13	34:DO:139:LYS:HE3	2.01	0.42
35:DP:20:ALA:HB2	35:DP:99:PRO:HD2	1.99	0.42
36:D0:28:LEU:HD12	36:D0:29:LEU:HD12	2.01	0.42
39:D1:6:THR:HG21	39:D1:10:ARG:CZ	2.50	0.42
41:DS:74:ALA:O	41:DS:75:TYR:CB	2.65	0.42
43:DU:95:LYS:HA	43:DU:101:LYS:N	2.33	0.42
44:DV:150:LEU:O	44:DV:151:HIS:C	2.61	0.42
44:DV:153:SER:O	44:DV:154:ASP:HB3	2.20	0.42
51:D6:7:ILE:O	51:D6:8:LYS:CG	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:44:G:N2	1:AA:399:G:C4	2.88	0.42
1:AA:353:A:C2'	1:AA:354:G:OP2	2.67	0.42
1:AA:532:A:N6	3:AF:193:TYR:HB3	2.30	0.42
1:AA:568:G:O6	12:AO:5:PRO:CD	2.68	0.42
1:AA:579:G:C4	1:AA:580:U:C5	3.08	0.42
1:AA:830:G:H2'	1:AA:831:U:O4'	2.19	0.42
1:AA:1152:A:O2'	1:AA:1153:C:C5'	2.66	0.42
1:AA:1195:C:H5"	1:AA:1196:U:OP2	2.20	0.42
1:AA:1280:A:C5'	1:AA:1281:U:OP2	2.60	0.42
2:AE:11:LEU:C	2:AE:13:ALA:H	2.28	0.42
2:AE:178:ARG:HH11	2:AE:178:ARG:HG2	1.85	0.42
3:AF:29:TYR:OH	14:AQ:54:PRO:CD	2.66	0.42
3:AF:109:PRO:HB3	3:AF:115:LEU:CD1	2.50	0.42
4:AG:109:GLY:O	4:AG:110:PHE:C	2.63	0.42
5:AH:41:VAL:HG22	5:AH:113:ALA:CB	2.43	0.42
6:AI:45:LEU:HD23	6:AI:45:LEU:C	2.44	0.42
6:AI:71:ARG:NH1	6:AI:71:ARG:HG3	2.34	0.42
9:AL:4:TYR:CE2	9:AL:88:TYR:CD1	3.07	0.42
9:AL:10:ARG:NH1	9:AL:105:ASP:OD1	2.53	0.42
10:AM:48:THR:CA	10:AM:62:HIS:HB3	2.32	0.42
11:AN:44:SER:O	11:AN:48:ILE:HG12	2.19	0.42
12:AO:24:VAL:C	12:AO:25:PRO:O	2.60	0.42
13:AP:3:ARG:HB3	49:B4:34:GLU:CB	2.50	0.42
15:AR:50:HIS:O	15:AR:53:HIS:HB3	2.20	0.42
19:AV:67:VAL:HG21	49:B4:59:PHE:CG	2.55	0.42
22:AD:16:C:H5"	22:AD:17:C:C4	2.55	0.42
24:BA:27:G:H2'	24:BA:28:A:OP2	2.20	0.42
24:BA:95:G:N2	24:BA:96:G:H1'	2.35	0.42
24:BA:270(U):C:H2'	24:BA:270(V):G:H8	1.85	0.42
24:BA:314:A:O2'	24:BA:315:G:H5'	2.20	0.42
24:BA:540:G:H2'	24:BA:541:C:H6	1.84	0.42
24:BA:622:G:H2'	24:BA:623:G:C5'	2.50	0.42
24:BA:637:A:OP1	34:BO:133:SER:HB3	2.20	0.42
24:BA:856:C:H4'	24:BA:857:C:OP1	2.20	0.42
24:BA:952:G:C6	24:BA:966:G:C6	3.07	0.42
24:BA:993:G:C6	24:BA:994:C:N4	2.87	0.42
24:BA:1272:A:H5'	24:BA:1273:U:OP2	2.20	0.42
24:BA:1353:A:H4'	26:BD:38:LYS:HZ2	1.84	0.42
24:BA:1838:C:C5'	24:BA:1839:G:OP1	2.67	0.42
24:BA:1844:C:O2'	24:BA:1845:G:H5'	2.19	0.42
24:BA:1887:C:H2'	24:BA:1888:G:C5'	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2147:G:C2'	24:BA:2148:G:O4'	2.68	0.42
24:BA:2189:U:C3'	24:BA:2190:G:H5"	2.49	0.42
24:BA:2734:A:H5'	24:BA:2735:G:OP2	2.20	0.42
24:BA:2849:U:O2'	24:BA:2850:A:O5'	2.38	0.42
25:BB:56:G:P	29:BG:27:ASN:ND2	2.93	0.42
25:BB:96:G:N1	25:BB:97:G:C4	2.88	0.42
26:BD:35:LYS:CB	26:BD:36:PRO:HA	2.37	0.42
26:BD:264:LYS:CG	26:BD:265:PRO:HD2	2.50	0.42
29:BG:16:ARG:N	29:BG:17:PRO:CD	2.82	0.42
33:BN:13:ASN:O	33:BN:14:THR:C	2.62	0.42
36:B0:26:LYS:HG3	36:B0:70:LEU:HD23	2.02	0.42
38:BR:121:ILE:HG22	38:BR:122:ASP:N	2.34	0.42
41:BS:9:TYR:H	41:BS:102:HIS:HD2	1.68	0.42
42:BT:35:THR:C	42:BT:37:THR:N	2.78	0.42
44:BV:117:LEU:C	44:BV:117:LEU:HD12	2.45	0.42
1:CA:64:G:H5"	1:CA:65:U:OP1	2.19	0.42
1:CA:96:G:N1	1:CA:97:U:H1'	2.34	0.42
1:CA:184:G:H2'	1:CA:185:A:H8	1.85	0.42
1:CA:492:G:C4	1:CA:493:G:C8	3.07	0.42
1:CA:544:G:H2'	1:CA:545:C:H6	1.84	0.42
1:CA:641:U:H5"	1:CA:642:A:OP1	2.20	0.42
1:CA:652:U:H1'	1:CA:653:A:C2	2.48	0.42
1:CA:652:U:O2'	1:CA:653:A:O5'	2.37	0.42
1:CA:742:G:C5'	15:CR:58:MET:HE1	2.49	0.42
1:CA:1126:U:C5	1:CA:1127:G:C5	3.08	0.42
1:CA:1128:C:O2	1:CA:1130:A:N6	2.53	0.42
1:CA:1181:G:O4'	1:CA:1181:G:OP2	2.37	0.42
1:CA:1319:A:H2'	1:CA:1323:G:C8	2.54	0.42
1:CA:1329:A:P	13:CP:28:ALA:HB3	2.60	0.42
1:CA:1364:U:OP1	1:CA:1364:U:H6	2.03	0.42
1:CA:1373:G:H5"	7:CJ:36:LYS:HB3	2.01	0.42
1:CA:1489:G:H2'	1:CA:1490:C:C6	2.55	0.42
2:CE:162:ILE:O	2:CE:185:ILE:CG1	2.67	0.42
3:CF:35:GLU:O	3:CF:38:ARG:N	2.53	0.42
3:CF:58:GLU:HB2	3:CF:65:ALA:HB3	2.01	0.42
4:CG:52:SER:O	4:CG:55:ALA:N	2.52	0.42
4:CG:150:GLU:O	4:CG:152:SER:N	2.53	0.42
5:CH:78:HIS:HE1	5:CH:143:ARG:N	2.12	0.42
6:CI:46:ARG:HG3	6:CI:47:ARG:N	2.34	0.42
7:CJ:64:GLN:C	7:CJ:66:VAL:N	2.77	0.42
9:CL:35:GLU:O	9:CL:35:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CR:50:HIS:O	15:CR:51:HIS:C	2.61	0.42
17:CT:76:LEU:HD21	17:CT:79:SER:HB2	2.01	0.42
19:CV:29:ARG:HD3	19:CV:30:LEU:H	1.84	0.42
19:CV:30:LEU:O	19:CV:31:ILE:HB	2.19	0.42
19:CV:66:MET:O	19:CV:66:MET:HG3	2.19	0.42
20:CW:28:ALA:C	20:CW:30:LYS:H	2.28	0.42
23:C1:4:A:H2'	23:C1:5:A:O4'	2.20	0.42
24:DA:404:C:O2'	24:DA:405:U:P	2.77	0.42
24:DA:512:G:O2'	24:DA:513:A:P	2.78	0.42
24:DA:638:G:H2'	24:DA:639:U:C6	2.55	0.42
24:DA:723:G:H2'	24:DA:724:U:C6	2.55	0.42
24:DA:729:G:H2'	24:DA:1775:U:O2	2.20	0.42
24:DA:796:C:H2'	24:DA:797:C:H6	1.78	0.42
24:DA:850:C:C2'	24:DA:851:U:H5'	2.50	0.42
24:DA:991:C:C2'	24:DA:992:C:O5'	2.68	0.42
24:DA:1471:A:C6	24:DA:1522:G:C2	3.08	0.42
24:DA:1530:G:H8	24:DA:1530:G:O5'	2.03	0.42
24:DA:1747:G:O2'	24:DA:1748:G:H5'	2.20	0.42
24:DA:2288:A:C2	24:DA:2325:G:C8	3.08	0.42
24:DA:2296:U:O2	24:DA:2335:A:N6	2.46	0.42
24:DA:2312:U:C6	24:DA:2312:U:O5'	2.66	0.42
24:DA:2378:A:H4'	37:DQ:23:ARG:CZ	2.49	0.42
24:DA:2743:C:C2'	24:DA:2744:G:O5'	2.68	0.42
25:DB:24:G:C6	25:DB:56:G:H2'	2.54	0.42
25:DB:50:G:P	37:DQ:63:THR:HG23	2.59	0.42
26:DD:165:ILE:O	26:DD:166:GLN:NE2	2.53	0.42
27:DE:10:GLY:HA3	38:DR:8:LYS:HD3	2.02	0.42
29:DG:180:PHE:C	29:DG:182:LYS:N	2.76	0.42
30:DH:89:ILE:CD1	30:DH:89:ILE:H	2.32	0.42
31:DK:79:ILE:HD13	31:DK:79:ILE:HA	1.83	0.42
34:DO:81:GLN:HE21	34:DO:81:GLN:HB2	1.59	0.42
34:DO:85:LEU:C	34:DO:87:ASP:N	2.77	0.42
34:DO:115:LEU:HB3	34:DO:131:SER:HB2	2.02	0.42
37:DQ:18:ILE:O	37:DQ:19:LYS:C	2.62	0.42
37:DQ:49:VAL:HG21	37:DQ:77:ALA:HA	2.02	0.42
38:DR:50:ILE:HD11	38:DR:102:ILE:HG12	2.01	0.42
38:DR:67:SER:O	38:DR:68:TYR:C	2.63	0.42
38:DR:76:PHE:HA	38:DR:77:PRO:HD3	1.75	0.42
38:DR:105:LEU:O	38:DR:105:LEU:HG	2.18	0.42
38:DR:123:GLN:O	38:DR:124:ASP:C	2.63	0.42
43:DU:90:LEU:HB2	43:DU:91:GLU:H	1.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:D3:36:ILE:HD13	45:D3:36:ILE:H	1.85	0.42
49:D4:6:HIS:O	49:D4:7:PRO:C	2.63	0.42
50:D5:35:GLU:O	50:D5:36:CYS:C	2.63	0.42
1:AA:404:U:H5'	4:AG:122:ARG:HD2	2.02	0.42
1:AA:417:C:O2'	1:AA:418:C:H5'	2.19	0.42
1:AA:1130:A:H61	1:AA:1144:G:N2	2.18	0.42
1:AA:1317:C:O2	19:AV:37:ARG:NH2	2.50	0.42
1:AA:1318:A:O2'	19:AV:37:ARG:HG2	2.20	0.42
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.54	0.42
1:AA:1425:U:O2'	1:AA:1426:C:H5'	2.20	0.42
3:AF:13:GLY:HA3	14:AQ:57:ARG:NE	2.34	0.42
3:AF:172:ARG:O	3:AF:173:VAL:HG22	2.19	0.42
5:AH:71:LEU:HD21	5:AH:115:VAL:H	1.85	0.42
7:AJ:143:ARG:O	7:AJ:144:MET:C	2.63	0.42
11:AN:120:ARG:HA	11:AN:121:PRO:HD3	1.82	0.42
13:AP:60:VAL:C	13:AP:62:ASN:N	2.78	0.42
20:AW:12:ALA:O	20:AW:15:ARG:HB2	2.20	0.42
24:BA:34:C:O2'	24:BA:35:G:H8	2.03	0.42
24:BA:65:C:H4'	42:BT:69:TYR:CE1	2.55	0.42
24:BA:269:U:O2	24:BA:269:U:H2'	2.20	0.42
24:BA:404:C:C2'	24:BA:405:U:OP2	2.68	0.42
24:BA:814:C:N3	24:BA:1194:A:C2	2.88	0.42
24:BA:996:A:C1'	39:B1:92:ARG:HH21	2.33	0.42
24:BA:1054:A:H2'	24:BA:1055:G:O4'	2.20	0.42
24:BA:1208:C:C4	24:BA:1209:G:N7	2.87	0.42
24:BA:1332:G:H5"	24:BA:1333:C:OP2	2.20	0.42
24:BA:1412:A:C4	24:BA:1413:G:C8	3.07	0.42
24:BA:1434:A:N6	24:BA:1558:A:H62	2.10	0.42
24:BA:1517:G:C2'	24:BA:1518:C:H5'	2.50	0.42
24:BA:1758:G:C2	24:BA:2696:U:H5'	2.55	0.42
24:BA:2119:A:N6	24:BA:2170:A:N7	2.68	0.42
24:BA:2173:A:H3'	24:BA:2174:C:O4'	2.20	0.42
24:BA:2370:G:H2'	24:BA:2371:G:C8	2.55	0.42
24:BA:2392:A:C2	24:BA:2429:G:N3	2.88	0.42
24:BA:2746:U:N3	24:BA:2756:U:O4	2.34	0.42
24:BA:2770:G:C5'	24:BA:2771:C:OP2	2.68	0.42
24:BA:2777:G:H4'	24:BA:2778:A:H5'	2.01	0.42
24:BA:2881:C:H2'	24:BA:2882:A:O4'	2.19	0.42
25:BB:27:C:C4	25:BB:28:C:C4	3.08	0.42
25:BB:113:C:H4'	37:BQ:46:VAL:HG22	2.02	0.42
26:BD:229:VAL:HG13	26:BD:230:ASP:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:35:GLN:N	27:BE:48:GLN:NE2	2.65	0.42
27:BE:116:VAL:HG21	27:BE:122:PHE:CE2	2.55	0.42
28:BF:65:TRP:HZ3	28:BF:73:ALA:O	2.03	0.42
28:BF:78:ILE:C	28:BF:80:ALA:N	2.77	0.42
28:BF:112:MET:HE2	28:BF:112:MET:HB3	1.84	0.42
28:BF:123:LEU:O	28:BF:192:LEU:O	2.38	0.42
28:BF:167:ALA:HA	28:BF:170:LEU:HD13	2.02	0.42
30:BH:170:ARG:O	30:BH:171:LEU:C	2.63	0.42
31:BK:102:SER:OG	31:BK:103:ARG:N	2.51	0.42
33:BN:98:VAL:HG13	33:BN:118:ALA:HA	2.01	0.42
34:BO:83:VAL:HG13	34:BO:83:VAL:O	2.20	0.42
36:B0:105:ARG:C	36:B0:105:ARG:CD	2.93	0.42
37:BQ:65:VAL:O	37:BQ:66:ALA:C	2.62	0.42
39:B1:5:LYS:O	39:B1:6:THR:C	2.62	0.42
40:B2:14:VAL:HB	40:B2:96:ILE:HG13	2.02	0.42
40:B2:35:LEU:HA	40:B2:36:PRO:HD2	1.87	0.42
44:BV:24:LEU:HD12	44:BV:25:PRO:N	2.35	0.42
44:BV:104:PHE:O	44:BV:107:THR:HG23	2.20	0.42
45:B3:50:ASN:C	45:B3:62:LEU:HD12	2.45	0.42
48:BX:23:LEU:HD12	48:BX:23:LEU:N	2.34	0.42
50:B5:17:ASP:C	50:B5:19:ARG:H	2.28	0.42
51:B6:24:GLU:HG3	53:B8:34:TRP:CZ3	2.55	0.42
52:B7:21:ARG:O	52:B7:27:GLY:HA3	2.20	0.42
1:CA:49:U:O3’	1:CA:50:A:H3’	2.20	0.42
1:CA:129(A):G:H4’	1:CA:130:A:O5’	2.19	0.42
1:CA:186(B):C:O2’	1:CA:186(C):G:H5’	2.20	0.42
1:CA:195:A:C5	1:CA:196:A:N1	2.88	0.42
1:CA:280:C:N3	17:CT:39:SER:N	2.68	0.42
1:CA:399:G:H2’	1:CA:400:C:C6	2.54	0.42
1:CA:402:G:O2’	4:CG:135:LEU:CD1	2.68	0.42
1:CA:439:A:OP2	1:CA:493:G:N2	2.51	0.42
1:CA:511:C:O2’	1:CA:512:U:C5’	2.68	0.42
1:CA:659:U:C2	1:CA:660:G:N7	2.88	0.42
1:CA:920:U:O4’	1:CA:1080:A:C2	2.73	0.42
1:CA:994:A:N7	1:CA:1216:G:H4’	2.35	0.42
1:CA:1148:U:C5	1:CA:1149:C:C5	3.08	0.42
1:CA:1240:U:OP2	7:CJ:116:ALA:HB2	2.20	0.42
1:CA:1381:U:C5	1:CA:1382:C:C4	3.08	0.42
2:CE:44:LEU:H	2:CE:44:LEU:CD1	2.26	0.42
5:CH:31:LEU:HD22	5:CH:31:LEU:HA	1.86	0.42
5:CH:128:PRO:O	5:CH:129:ILE:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:18:TYR:CD2	7:CJ:59:LEU:HD13	2.55	0.42
8:CK:95:VAL:O	8:CK:95:VAL:HG23	2.20	0.42
10:CM:49:VAL:HG13	10:CM:50:ILE:N	2.35	0.42
11:CN:72:ALA:HB1	11:CN:77:MET:HG2	2.02	0.42
12:CO:6:THR:H	12:CO:9:GLN:NE2	1.97	0.42
14:CQ:6:LEU:HD23	14:CQ:6:LEU:C	2.45	0.42
15:CR:54:ARG:NH1	15:CR:58:MET:SD	2.93	0.42
20:CW:74:LYS:C	20:CW:76:ALA:N	2.76	0.42
24:DA:7:G:H2'	24:DA:8:A:O4'	2.20	0.42
24:DA:155:C:H5'	24:DA:161:U:OP2	2.19	0.42
24:DA:321:G:OP2	28:DF:135:LYS:HA	2.20	0.42
24:DA:412:A:N3	24:DA:412:A:H2'	2.35	0.42
24:DA:435:C:C2'	24:DA:436:C:H5'	2.50	0.42
24:DA:557:U:C2	24:DA:558:G:C8	3.08	0.42
24:DA:608:A:C6	24:DA:609:A:C6	3.08	0.42
24:DA:608:A:C8	24:DA:621:A:N6	2.88	0.42
24:DA:914:C:H2'	24:DA:915:C:H5'	2.01	0.42
24:DA:1095:A:N3	24:DA:1095:A:H3'	2.35	0.42
24:DA:1206:G:C6	24:DA:1207:C:C4	3.07	0.42
24:DA:1543:A:H2'	24:DA:1544:C:OP2	2.19	0.42
24:DA:1833:U:C2	24:DA:1834:U:C5	3.08	0.42
24:DA:2199:A:H61	24:DA:2226:C:N4	2.18	0.42
24:DA:2243:U:H2'	24:DA:2244:U:C6	2.55	0.42
24:DA:2468:G:H2'	24:DA:2476:A:N3	2.35	0.42
24:DA:2468:G:H5"	35:DP:120:ILE:HD12	2.02	0.42
24:DA:2687:U:H2'	24:DA:2688:U:O4'	2.19	0.42
24:DA:2712(A):A:H5"	24:DA:2713:A:OP2	2.20	0.42
24:DA:2724:C:O2	24:DA:2724:C:C2'	2.64	0.42
24:DA:2762:G:C2'	24:DA:2763:G:H5'	2.49	0.42
25:DB:38:C:N4	25:DB:44:G:H1	2.18	0.42
27:DE:25:VAL:CG1	38:DR:11:GLU:HG2	2.50	0.42
28:DF:32:LEU:C	28:DF:32:LEU:CD1	2.83	0.42
28:DF:105:VAL:O	28:DF:106:ARG:C	2.63	0.42
30:DH:84:SER:OG	30:DH:85:LYS:N	2.51	0.42
31:DK:87:LYS:HA	31:DK:122:GLU:HA	2.02	0.42
32:DM:58:ASP:HB3	32:DM:95:PRO:HB3	2.02	0.42
33:DN:2:ILE:N	33:DN:2:ILE:CD1	2.82	0.42
33:DN:2:ILE:HG12	33:DN:8:LEU:HD11	2.02	0.42
33:DN:17:ARG:HH11	33:DN:17:ARG:HG2	1.84	0.42
33:DN:31:LYS:O	33:DN:32:TYR:HD2	2.02	0.42
34:DO:65:ARG:HH21	53:D8:15:LYS:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DP:34:LEU:HD23	35:DP:104:PHE:CD1	2.55	0.42
38:DR:6:LEU:HD12	38:DR:9:LEU:HD12	2.01	0.42
39:D1:35:ALA:O	39:D1:39:LEU:HG	2.19	0.42
42:DT:60:ARG:HH12	52:D7:47:ARG:HH22	1.67	0.42
43:DU:6:HIS:O	43:DU:7:VAL:CG1	2.59	0.42
43:DU:20:TYR:CE1	43:DU:42:VAL:HA	2.55	0.42
44:DV:80:ARG:O	44:DV:81:ARG:C	2.63	0.42
46:DZ:83:GLU:C	46:DZ:83:GLU:CD	2.87	0.42
50:D5:40:LYS:HE2	50:D5:47:PRO:HG2	2.02	0.42
51:D6:41:PRO:HG3	51:D6:44:ARG:HB2	2.01	0.42
53:D8:25:MET:HB3	53:D8:26:LYS:H	1.68	0.42
1:AA:255:G:H1'	17:AT:16:GLN:NE2	2.35	0.41
1:AA:347:G:O2'	1:AA:348:G:H5'	2.19	0.41
1:AA:405:U:H5"	1:AA:406:G:O4'	2.20	0.41
1:AA:414:A:C8	1:AA:414:A:H5'	2.55	0.41
1:AA:419:C:H2'	1:AA:419:C:O2	2.20	0.41
1:AA:531:U:H4'	1:AA:532:A:OP1	2.20	0.41
1:AA:718:G:H5'	11:AN:117:ASN:OD1	2.20	0.41
1:AA:920:U:O4'	1:AA:1080:A:C2	2.73	0.41
1:AA:1239:A:H2'	1:AA:1298:C:N4	2.35	0.41
1:AA:1313:U:OP1	19:AV:6:LYS:HD3	2.20	0.41
1:AA:1316:G:H4'	14:AQ:18:VAL:CG1	2.42	0.41
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.55	0.41
2:AE:15:VAL:CG2	2:AE:210:SER:HB2	2.44	0.41
2:AE:54:THR:HG21	2:AE:201:ILE:HD11	2.02	0.41
2:AE:85:ALA:CB	2:AE:92:TYR:CD1	3.03	0.41
2:AE:153:ARG:HH11	2:AE:153:ARG:HG2	1.85	0.41
3:AF:58:GLU:O	3:AF:59:ARG:HG2	2.20	0.41
3:AF:172:ARG:HE	3:AF:172:ARG:HB3	1.66	0.41
4:AG:13:ARG:CD	4:AG:38:TYR:O	2.68	0.41
4:AG:64:LEU:HD21	4:AG:97:LEU:CD1	2.50	0.41
5:AH:132:ALA:C	5:AH:134:ALA:N	2.75	0.41
7:AJ:23:VAL:HG13	7:AJ:43:PHE:CZ	2.54	0.41
8:AK:36:LEU:O	8:AK:39:LEU:N	2.53	0.41
11:AN:22:HIS:HB3	11:AN:29:ILE:HG12	2.01	0.41
12:AO:109:GLY:HA3	12:AO:121:GLY:O	2.20	0.41
13:AP:80:ARG:HH12	49:B4:55:ARG:CD	2.33	0.41
14:AQ:36:PHE:CD1	14:AQ:36:PHE:C	2.98	0.41
18:AU:71:LYS:HA	18:AU:74:ARG:HG3	2.02	0.41
19:AV:12:ASP:O	19:AV:16:LEU:HD22	2.20	0.41
24:BA:24:G:H2'	24:BA:25:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:604:G:O2'	24:BA:605:C:H5'	2.20	0.41
24:BA:609(A):G:C4	24:BA:610:C:C5	3.08	0.41
24:BA:660:G:C5	24:BA:661:C:C5	3.08	0.41
24:BA:946:G:H2'	24:BA:947:G:O5'	2.20	0.41
24:BA:1091:G:C2	24:BA:1101:U:O2	2.73	0.41
24:BA:1300:U:H2'	24:BA:1635:G:OP1	2.20	0.41
24:BA:1341:U:HO2'	24:BA:1342:A:P	2.41	0.41
24:BA:1416:G:C2'	24:BA:1417:C:H6	2.32	0.41
24:BA:1690:A:H3'	24:BA:1691:C:C6	2.55	0.41
24:BA:1804:C:H6	24:BA:1804:C:O5'	2.02	0.41
24:BA:1813:G:H2'	24:BA:1814:G:H5'	2.02	0.41
24:BA:1848:A:C4	24:BA:1849:G:C8	3.08	0.41
24:BA:1920:C:O5'	24:BA:1920:C:H6	2.02	0.41
24:BA:2128:C:H3'	24:BA:2129:C:C6	2.55	0.41
24:BA:2507:C:H2'	24:BA:2508:G:O4'	2.20	0.41
24:BA:2881:C:C4	24:BA:2882:A:N7	2.88	0.41
26:BD:48:ARG:HG3	26:BD:48:ARG:NH1	2.35	0.41
27:BE:35:GLN:HG3	27:BE:64:LYS:HZ2	1.85	0.41
27:BE:50:GLY:HA2	27:BE:74:PRO:HG3	2.02	0.41
27:BE:203:LYS:C	27:BE:203:LYS:CD	2.93	0.41
28:BF:112:MET:HA	28:BF:115:ALA:HB3	2.01	0.41
29:BG:146:TYR:C	29:BG:148:MET:H	2.28	0.41
30:BH:27:LYS:HE3	30:BH:28:GLY:N	2.34	0.41
30:BH:37:VAL:HG13	30:BH:38:SER:N	2.35	0.41
30:BH:171:LEU:O	30:BH:171:LEU:HD23	2.20	0.41
31:BK:26:ALA:C	31:BK:31:LEU:HD13	2.45	0.41
32:BM:55:VAL:HG23	32:BM:56:ASN:OD1	2.19	0.41
32:BM:56:ASN:HB3	32:BM:125:GLY:C	2.44	0.41
32:BM:99:LEU:O	32:BM:100:GLU:C	2.62	0.41
34:BO:147:LEU:HB2	34:BO:148:LEU:H	1.63	0.41
35:BP:114:ALA:C	35:BP:116:GLU:H	2.28	0.41
37:BQ:30:ARG:NH1	37:BQ:30:ARG:CG	2.82	0.41
37:BQ:83:LYS:HE2	37:BQ:84:GLN:HG3	2.00	0.41
40:B2:1:MET:HG2	40:B2:42:GLY:HA3	2.01	0.41
40:B2:5:VAL:HA	40:B2:37:VAL:HB	2.01	0.41
42:BT:51:VAL:HG13	42:BT:81:VAL:HB	2.01	0.41
44:BV:59:LEU:C	44:BV:60:GLU:CG	2.94	0.41
52:B7:47:ARG:N	52:B7:47:ARG:CD	2.78	0.41
53:B8:43:GLN:HE21	53:B8:46:ARG:HH21	1.67	0.41
1:CA:5:U:O2	1:CA:5:U:H2'	2.20	0.41
1:CA:34:C:O2'	1:CA:35:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:39:G:C2	1:CA:40:C:C6	3.07	0.41
1:CA:131:C:H2'	1:CA:132:C:C6	2.55	0.41
1:CA:156:G:O2'	1:CA:157:G:H5'	2.20	0.41
1:CA:247:G:OP2	17:CT:100:LYS:N	2.53	0.41
1:CA:263:A:OP2	20:CW:79:ARG:NH1	2.52	0.41
1:CA:374:A:C6	1:CA:375:U:C4	3.07	0.41
1:CA:430:A:OP1	4:CG:9:CYS:CB	2.65	0.41
1:CA:652:U:O2'	1:CA:653:A:H5"	2.21	0.41
1:CA:867:G:H8	1:CA:867:G:OP2	2.03	0.41
1:CA:882:C:O2'	1:CA:883:C:H5'	2.20	0.41
1:CA:939:G:H5"	7:CJ:102:ARG:CZ	2.48	0.41
1:CA:1017:G:O2'	1:CA:1018:C:H5'	2.20	0.41
1:CA:1066:C:O2	1:CA:1066:C:H2'	2.20	0.41
1:CA:1141:C:H2'	1:CA:1142:G:H8	1.85	0.41
1:CA:1200:C:O2'	1:CA:1201:A:OP2	2.37	0.41
1:CA:1243:C:H2'	1:CA:1244:C:C6	2.55	0.41
1:CA:1541:U:H5"	1:CA:1542:G:OP1	2.20	0.41
2:CE:166:ASP:O	2:CE:170:GLU:OE1	2.38	0.41
4:CG:109:GLY:C	4:CG:111:ALA:N	2.76	0.41
4:CG:202:LEU:C	4:CG:204:ILE:N	2.78	0.41
7:CJ:24:THR:HA	7:CJ:27:ILE:HD13	2.01	0.41
8:CK:21:LYS:O	8:CK:22:GLU:C	2.63	0.41
13:CP:16:ASP:HB3	13:CP:34:LEU:CD1	2.49	0.41
13:CP:19:LEU:HD22	13:CP:19:LEU:N	2.33	0.41
16:CS:21:VAL:HG21	16:CS:59:TRP:NE1	2.35	0.41
17:CT:74:LEU:HD13	17:CT:74:LEU:O	2.20	0.41
17:CT:78:GLU:O	17:CT:79:SER:C	2.61	0.41
18:CU:37:VAL:O	18:CU:38:GLU:C	2.63	0.41
18:CU:74:ARG:NE	18:CU:80:PRO:O	2.48	0.41
19:CV:41:VAL:HG11	19:CV:45:VAL:HG13	2.02	0.41
19:CV:58:VAL:O	19:CV:58:VAL:HG23	2.20	0.41
20:CW:47:GLY:C	20:CW:49:ALA:N	2.72	0.41
24:DA:246:C:H2'	24:DA:247:G:H5'	2.01	0.41
24:DA:386:G:H4'	24:DA:387:U:OP2	2.20	0.41
24:DA:526:A:O2'	24:DA:2043:C:O2	2.36	0.41
24:DA:584:C:H2'	24:DA:585:G:O4'	2.19	0.41
24:DA:1034:G:H8	24:DA:1034:G:O5'	2.03	0.41
24:DA:1099:G:H2'	24:DA:1100:C:O4'	2.19	0.41
24:DA:1212:G:C2'	24:DA:1213:A:OP2	2.68	0.41
24:DA:1608:A:O2'	24:DA:1610:A:OP2	2.37	0.41
24:DA:1750:G:N2	24:DA:1751:C:C2	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1884:A:C2'	24:DA:1885:A:C5'	2.88	0.41
24:DA:1941:C:N4	24:DA:1965:C:H5'	2.35	0.41
24:DA:2182:G:H2'	24:DA:2183:C:C6	2.53	0.41
24:DA:2360:A:OP1	53:D8:49:VAL:HG12	2.20	0.41
24:DA:2517:C:N3	24:DA:2542:A:C6	2.87	0.41
24:DA:2683:C:H1'	27:DE:13:ARG:NH2	2.35	0.41
24:DA:2867:G:OP2	24:DA:2867:G:H4'	2.20	0.41
26:DD:9:TYR:CZ	26:DD:13:ARG:HD3	2.54	0.41
27:DE:4:ILE:HG22	27:DE:198:VAL:HB	2.02	0.41
27:DE:63:LEU:CD1	27:DE:64:LYS:N	2.71	0.41
28:DF:80:ALA:O	28:DF:83:PHE:HB2	2.20	0.41
29:DG:27:ASN:HB3	29:DG:30:GLU:OE2	2.19	0.41
29:DG:78:SER:O	29:DG:80:PHE:N	2.53	0.41
30:DH:84:SER:O	30:DH:85:LYS:CB	2.64	0.41
32:DM:10:GLU:OE2	32:DM:11:PRO:CD	2.68	0.41
34:DO:42:SER:O	34:DO:43:GLY:C	2.63	0.41
34:DO:83:VAL:HG11	34:DO:112:LEU:HD21	1.97	0.41
36:D0:34:ILE:HG22	36:D0:35:THR:N	2.35	0.41
37:DQ:61:ASN:OD1	37:DQ:63:THR:OG1	2.29	0.41
37:DQ:92:TYR:HB2	37:DQ:98:VAL:HG11	2.02	0.41
40:D2:35:LEU:HB2	40:D2:37:VAL:CG2	2.49	0.41
41:DS:8:ARG:HG3	41:DS:8:ARG:NH1	2.34	0.41
43:DU:51:VAL:CG1	43:DU:52:SER:N	2.74	0.41
47:DW:16:LEU:C	47:DW:16:LEU:HD12	2.45	0.41
51:D6:36:LEU:HD13	51:D6:50:ARG:HH12	1.81	0.41
1:AA:117:G:H2'	1:AA:118:U:O4'	2.20	0.41
1:AA:210:U:H2'	1:AA:210:U:O2	2.19	0.41
1:AA:707:C:O2'	1:AA:708:C:H5'	2.20	0.41
1:AA:1151:A:H5"	10:AM:42:THR:OG1	2.19	0.41
1:AA:1177:G:OP2	9:AL:97:LYS:NZ	2.49	0.41
2:AE:70:PHE:O	2:AE:92:TYR:HA	2.21	0.41
2:AE:116:GLU:HB3	2:AE:153:ARG:NH2	2.35	0.41
2:AE:121:LEU:HB3	2:AE:127:ILE:HG12	2.02	0.41
2:AE:200:ILE:H	2:AE:200:ILE:CD1	2.30	0.41
4:AG:3:ARG:NH2	4:AG:3:ARG:CB	2.75	0.41
5:AH:32:VAL:CG1	5:AH:33:VAL:N	2.83	0.41
5:AH:112:LEU:N	5:AH:112:LEU:HD23	2.35	0.41
7:AJ:36:LYS:HB2	7:AJ:36:LYS:NZ	2.34	0.41
11:AN:101:SER:OG	11:AN:102:GLY:N	2.53	0.41
12:AO:46:LYS:O	12:AO:47:LYS:C	2.62	0.41
13:AP:13:LYS:O	13:AP:14:ARG:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:36:ILE:HG22	15:AR:37:ASN:N	2.36	0.41
18:AU:64:ARG:O	18:AU:66:LEU:N	2.53	0.41
18:AU:85:LEU:C	18:AU:85:LEU:CD1	2.91	0.41
19:AV:43:GLU:O	19:AV:44:MET:C	2.61	0.41
20:AW:89:ARG:C	20:AW:91:LEU:H	2.28	0.41
24:BA:283:A:H5'	24:BA:284:U:H5	1.86	0.41
24:BA:484:C:H2'	24:BA:485:C:C6	2.55	0.41
24:BA:605:C:O2	24:BA:657:U:O2'	2.38	0.41
24:BA:654(C):G:C2	24:BA:654(S):G:N1	2.88	0.41
24:BA:882:G:H2'	24:BA:883:G:C1'	2.50	0.41
24:BA:966:G:C6	24:BA:967:C:N4	2.88	0.41
24:BA:1162:G:H21	40:B2:89:GLN:NE2	2.18	0.41
24:BA:1349:A:N6	24:BA:1598:C:N4	2.67	0.41
24:BA:1372:U:O4	24:BA:1373:A:C5	2.73	0.41
24:BA:1629:U:O2	24:BA:2698:U:H5"	2.20	0.41
24:BA:1799:G:H2'	26:BD:181:GLU:OE2	2.19	0.41
24:BA:1846:G:C5'	24:BA:1847:A:OP2	2.54	0.41
24:BA:1975:G:H2'	24:BA:1976:U:O4'	2.19	0.41
24:BA:2681:C:N3	24:BA:2724:C:N4	2.68	0.41
24:BA:2716:U:C2'	24:BA:2717:G:H5'	2.50	0.41
25:BB:28:C:OP1	37:BQ:31:SER:OG	2.24	0.41
25:BB:66:A:O2'	25:BB:67:G:P	2.78	0.41
26:BD:108:PRO:HB3	26:BD:143:HIS:CE1	2.55	0.41
26:BD:122:ASP:O	26:BD:123:ALA:C	2.63	0.41
26:BD:238:GLY:C	26:BD:239:ARG:O	2.61	0.41
27:BE:71:GLY:O	27:BE:73:GLU:N	2.52	0.41
28:BF:57:VAL:CG1	28:BF:58:ALA:N	2.83	0.41
28:BF:202:PHE:CE1	28:BF:206:ILE:HD11	2.55	0.41
32:BM:7:LYS:O	32:BM:9:VAL:HG13	2.20	0.41
32:BM:51:PHE:N	32:BM:51:PHE:CD1	2.88	0.41
32:BM:55:VAL:HB	32:BM:126:PRO:CB	2.49	0.41
33:BN:104:ARG:CD	38:BR:34:VAL:HG11	2.50	0.41
35:BP:27:VAL:HG21	35:BP:134:ARG:O	2.20	0.41
35:BP:109:VAL:O	35:BP:110:THR:C	2.63	0.41
36:B0:72:ASP:HB3	36:B0:75:LEU:HB2	2.00	0.41
38:BR:106:SER:CB	38:BR:110:ILE:HD12	2.49	0.41
39:B1:77:SER:C	39:B1:79:PHE:N	2.75	0.41
40:B2:3:ALA:HB1	40:B2:38:LEU:CD2	2.50	0.41
40:B2:62:LEU:HD22	40:B2:95:LEU:HB2	2.02	0.41
43:BU:68:HIS:ND1	43:BU:68:HIS:C	2.78	0.41
46:BZ:96:LYS:HB3	46:BZ:96:LYS:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BW:68:ARG:C	47:BW:70:GLN:N	2.76	0.41
53:B8:16:ILE:HD11	53:B8:60:LEU:HD12	2.02	0.41
53:B8:61:LEU:HD13	53:B8:62:LEU:HG	2.02	0.41
1:CA:95:G:C2'	1:CA:96:G:H5'	2.47	0.41
1:CA:108:G:C2	1:CA:109:A:C2	3.08	0.41
1:CA:410:G:H3'	1:CA:410:G:C8	2.55	0.41
1:CA:598:U:H2'	1:CA:599:C:C6	2.55	0.41
1:CA:599:C:HO2'	8:CK:129:VAL:C	2.27	0.41
1:CA:701:C:H4'	1:CA:702:A:H5"	2.02	0.41
1:CA:742:G:C2'	1:CA:743:U:H5'	2.50	0.41
1:CA:894:G:C6	1:CA:895:G:C5	3.08	0.41
1:CA:1091:U:H2'	1:CA:1093:A:OP2	2.20	0.41
1:CA:1211:U:H5'	1:CA:1212:U:P	2.60	0.41
1:CA:1218:C:H2'	1:CA:1219:U:C5	2.53	0.41
1:CA:1234:C:C2'	1:CA:1235:U:H5'	2.49	0.41
1:CA:1241:G:H2'	1:CA:1242:C:C5	2.53	0.41
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.21	0.41
1:CA:1349:A:H2'	1:CA:1350:A:O4'	2.20	0.41
2:CE:99:GLY:O	2:CE:108:ILE:HD11	2.20	0.41
3:CF:59:ARG:NH1	3:CF:97:LYS:HE3	2.34	0.41
4:CG:96:LEU:O	4:CG:97:LEU:C	2.63	0.41
4:CG:115:ARG:O	4:CG:116:GLN:C	2.63	0.41
6:CI:36:ARG:NH2	6:CI:38:GLU:HG2	2.35	0.41
6:CI:45:LEU:O	6:CI:46:ARG:HB2	2.19	0.41
6:CI:67:MET:HB2	6:CI:68:PRO:CD	2.48	0.41
7:CJ:21:VAL:O	7:CJ:22:LEU:C	2.62	0.41
7:CJ:23:VAL:O	7:CJ:24:THR:C	2.62	0.41
7:CJ:111:ARG:HH11	7:CJ:111:ARG:CB	2.23	0.41
7:CJ:126:ASP:OD2	7:CJ:126:ASP:N	2.53	0.41
8:CK:11:THR:HA	8:CK:14:ARG:NH1	2.35	0.41
8:CK:38:ILE:CD1	8:CK:118:VAL:HG12	2.49	0.41
8:CK:122:ARG:HG3	8:CK:122:ARG:HH11	1.85	0.41
13:CP:13:LYS:HA	13:CP:44:ARG:CD	2.48	0.41
14:CQ:3:ARG:CG	14:CQ:4:LYS:N	2.83	0.41
15:CR:50:HIS:O	15:CR:53:HIS:HB3	2.20	0.41
24:DA:197:A:N6	24:DA:2430:A:H2'	2.35	0.41
24:DA:391:G:H2'	24:DA:392:C:H6	1.85	0.41
24:DA:776:G:O6	24:DA:793:A:H2'	2.20	0.41
24:DA:1103:A:H3'	24:DA:1104:C:H6	1.86	0.41
24:DA:1547:C:C2	24:DA:1548:C:C5	3.08	0.41
24:DA:1718:G:H3'	24:DA:1725:G:H5"	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2101:G:H2'	24:DA:2102:U:H6	1.84	0.41
24:DA:2193:G:H2'	24:DA:2194:G:C8	2.55	0.41
24:DA:2225:A:H4'	24:DA:2226:C:C6	2.55	0.41
24:DA:2349:G:OP2	53:D8:42:ARG:HD3	2.20	0.41
24:DA:2444:G:OP2	28:DF:68:LYS:CE	2.68	0.41
24:DA:2531:A:H3'	24:DA:2532:G:H8	1.84	0.41
26:DD:109:ASP:HB2	26:DD:197:GLY:HA2	2.03	0.41
26:DD:168:ARG:O	26:DD:169:GLU:HB2	2.19	0.41
27:DE:167:VAL:CG1	27:DE:189:PRO:HD3	2.50	0.41
28:DF:34:TRP:CA	34:DO:6:LEU:HD12	2.47	0.41
28:DF:53:THR:O	28:DF:55:GLY:N	2.53	0.41
30:DH:53:GLU:OE1	30:DH:53:GLU:HA	2.16	0.41
31:DK:77:LEU:C	31:DK:77:LEU:CD1	2.90	0.41
31:DK:132:PRO:C	31:DK:133:HIS:ND1	2.78	0.41
31:DK:138:ILE:O	31:DK:138:ILE:HG23	2.19	0.41
32:DM:30:ILE:HG22	32:DM:34:LEU:HD21	2.01	0.41
39:D1:75:ASN:O	39:D1:76:TYR:C	2.63	0.41
40:D2:15:GLU:O	40:D2:96:ILE:HB	2.19	0.41
40:D2:72:VAL:HG13	40:D2:72:VAL:O	2.19	0.41
42:DT:60:ARG:HH22	52:D7:47:ARG:HH12	1.68	0.41
44:DV:48:PHE:CE2	44:DV:71:VAL:HG11	2.55	0.41
44:DV:91:LEU:N	44:DV:91:LEU:HD22	2.35	0.41
44:DV:115:GLY:O	44:DV:116:VAL:C	2.63	0.41
52:D7:25:PRO:HA	52:D7:28:ARG:NH2	2.35	0.41
22:CB:23:G:H2'	22:CB:24:C:H5'	2.01	0.41
1:AA:481:G:H2'	1:AA:483:C:H41	1.85	0.41
1:AA:818:G:H2'	1:AA:819:A:H5"	2.02	0.41
1:AA:1024:G:C2'	1:AA:1025:U:H5'	2.50	0.41
1:AA:1066:C:C5'	1:AA:1067:A:OP2	2.68	0.41
1:AA:1156:G:C3'	1:AA:1157:A:H5"	2.50	0.41
1:AA:1216:G:O2'	1:AA:1217:C:H5'	2.20	0.41
1:AA:1225:A:H5"	1:AA:1226:C:OP2	2.20	0.41
2:AE:22:LYS:HD2	2:AE:22:LYS:H	1.86	0.41
2:AE:22:LYS:HE2	2:AE:38:GLY:HA2	2.02	0.41
2:AE:51:LEU:HD22	2:AE:55:PHE:HE2	1.85	0.41
2:AE:142:LEU:O	2:AE:143:GLU:C	2.62	0.41
3:AF:113:ALA:CB	3:AF:114:PRO:HD3	2.37	0.41
4:AG:108:LEU:O	4:AG:108:LEU:HG	2.21	0.41
6:AI:35:ALA:CB	6:AI:67:MET:HB3	2.50	0.41
10:AM:6:ILE:CG2	10:AM:98:ILE:HG13	2.51	0.41
11:AN:60:ALA:C	11:AN:62:GLN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AQ:9:LYS:HA	14:AQ:12:ARG:HH11	1.85	0.41
14:AQ:15:LYS:O	14:AQ:16:PHE:O	2.37	0.41
17:AT:81:ARG:NE	17:AT:84:LEU:HD11	2.34	0.41
18:AU:87:ARG:O	18:AU:88:LYS:C	2.63	0.41
19:AV:16:LEU:CD1	19:AV:16:LEU:N	2.83	0.41
21:AX:12:LYS:HG2	21:AX:22:ARG:CB	2.50	0.41
22:AC:18:G:H1'	22:AC:58:A:C2	2.55	0.41
22:AD:26:G:C2	22:AD:45:G:N2	2.89	0.41
24:BA:270(Z):U:O2'	24:BA:271(A):C:C5	2.73	0.41
24:BA:508:G:HO2'	24:BA:509:C:P	2.37	0.41
24:BA:923:C:H2'	24:BA:924:C:H6	1.83	0.41
24:BA:1045:A:H1'	24:BA:1047:G:C5	2.56	0.41
24:BA:1120:G:H2'	24:BA:1121:C:C6	2.56	0.41
24:BA:1299:G:H5"	24:BA:1300:U:H5"	2.02	0.41
24:BA:1412:A:O2'	24:BA:1413:G:H5'	2.20	0.41
24:BA:1697:G:OP2	24:BA:1698:A:H3'	2.20	0.41
24:BA:1946:U:C2	24:BA:1947:C:C5	3.08	0.41
24:BA:2142:C:H2'	24:BA:2143:C:H6	1.84	0.41
24:BA:2180:U:H2'	24:BA:2181:G:C8	2.55	0.41
24:BA:2356:C:H2'	24:BA:2357:U:O4'	2.20	0.41
24:BA:2777:G:H5"	24:BA:2778:A:H5"	2.02	0.41
24:BA:2850:A:OP2	24:BA:2866:U:N3	2.52	0.41
24:BA:2874:C:O2	24:BA:2874:C:C2'	2.68	0.41
25:BB:1:U:C2'	25:BB:2:C:H5'	2.50	0.41
26:BD:97:TYR:CE1	26:BD:103:ARG:HG3	2.56	0.41
26:BD:147:LEU:HD13	26:BD:155:LEU:HD11	2.02	0.41
26:BD:268:ARG:HH11	26:BD:268:ARG:HG2	1.85	0.41
28:BF:7:TYR:HD2	28:BF:18:ARG:HB2	1.85	0.41
29:BG:19:LEU:C	29:BG:21:ARG:N	2.75	0.41
29:BG:40:ASN:HD22	29:BG:41:GLN:N	2.17	0.41
30:BH:9:ILE:HG21	30:BH:49:VAL:O	2.20	0.41
30:BH:33:LEU:HD21	30:BH:140:LYS:CE	2.43	0.41
30:BH:61:HIS:O	30:BH:63:SER:N	2.53	0.41
30:BH:65:HIS:O	30:BH:66:GLY:C	2.62	0.41
32:BM:103:VAL:O	32:BM:104:LYS:C	2.63	0.41
34:BO:110:TYR:HD2	34:BO:111:ARG:HH21	1.67	0.41
35:BP:22:LYS:HE3	35:BP:23:GLY:N	2.34	0.41
35:BP:66:ILE:CG1	35:BP:67:ARG:H	2.34	0.41
36:B0:18:LEU:HD11	36:B0:22:ARG:CZ	2.50	0.41
37:BQ:42:ASP:O	37:BQ:43:GLU:CB	2.67	0.41
39:B1:92:ARG:NH1	40:B2:11:GLN:HG3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:B1:96:ALA:O	39:B1:98:LEU:HD12	2.20	0.41
40:B2:64:HIS:CD2	40:B2:92:THR:OG1	2.74	0.41
41:BS:66:GLU:O	41:BS:66:GLU:HG2	2.19	0.41
42:BT:29:TRP:O	42:BT:30:VAL:HG13	2.20	0.41
43:BU:26:LYS:HB2	43:BU:26:LYS:HE3	1.87	0.41
44:BV:115:GLY:HA2	44:BV:176:PRO:HA	2.02	0.41
46:BZ:91:LYS:CE	46:BZ:92:LYS:H	2.33	0.41
49:B4:13:ARG:HH11	49:B4:22:ILE:HG13	1.85	0.41
50:B5:45:VAL:HG12	50:B5:56:LYS:HG3	2.02	0.41
1:CA:299:G:H2'	1:CA:300:A:C8	2.56	0.41
1:CA:336:C:H2'	1:CA:337:C:H6	1.85	0.41
1:CA:511:C:O2'	1:CA:512:U:P	2.78	0.41
1:CA:892:A:H2'	1:CA:893:C:H6	1.85	0.41
1:CA:977:A:N3	1:CA:977:A:H2'	2.35	0.41
1:CA:1254:C:OP1	10:CM:45:ARG:NE	2.53	0.41
1:CA:1408:A:H2'	1:CA:1409:C:H6	1.85	0.41
1:CA:1490:C:H2'	1:CA:1491:G:O4'	2.21	0.41
2:CE:12:GLU:C	2:CE:14:GLY:H	2.29	0.41
2:CE:29:ALA:C	2:CE:31:TYR:H	2.27	0.41
3:CF:76:VAL:CG2	3:CF:103:VAL:HG11	2.49	0.41
3:CF:120:VAL:O	3:CF:121:ALA:C	2.63	0.41
3:CF:142:MET:HG2	3:CF:149:ALA:HB2	2.02	0.41
4:CG:94:LEU:HA	4:CG:97:LEU:HD12	2.01	0.41
5:CH:144:THR:C	5:CH:146:ALA:N	2.76	0.41
6:CI:88:VAL:HG12	6:CI:89:MET:N	2.34	0.41
7:CJ:44:TYR:O	7:CJ:47:CYS:N	2.53	0.41
7:CJ:79:ARG:CZ	7:CJ:82:GLY:HA2	2.51	0.41
7:CJ:87:VAL:HG11	7:CJ:155:ARG:HA	2.02	0.41
7:CJ:141:VAL:O	7:CJ:141:VAL:CG1	2.65	0.41
9:CL:128:ARG:HD3	22:CC:32:C:OP2	2.19	0.41
10:CM:45:ARG:HH11	10:CM:45:ARG:HG3	1.86	0.41
10:CM:84:GLN:H	10:CM:84:GLN:HG3	1.50	0.41
12:CO:53:ARG:HH12	12:CO:92:ASP:HB3	1.85	0.41
13:CP:82:MET:HE3	13:CP:93:ARG:CG	2.50	0.41
16:CS:59:TRP:O	16:CS:60:LEU:C	2.63	0.41
17:CT:11:VAL:HG23	17:CT:12:SER:N	2.35	0.41
19:CV:41:VAL:HG13	19:CV:44:MET:CB	2.38	0.41
24:DA:99:U:O2'	24:DA:101:G:OP2	2.37	0.41
24:DA:527:C:H4'	24:DA:528:A:O5'	2.20	0.41
24:DA:868:U:C4	24:DA:869:G:N7	2.89	0.41
24:DA:898:C:H2'	24:DA:899:A:H5"	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:968:G:H2'	24:DA:969:U:C6	2.55	0.41
24:DA:1027:A:N6	24:DA:1126:A:C1'	2.83	0.41
24:DA:1082:U:C4	24:DA:1083:U:H1'	2.55	0.41
24:DA:1152:C:O2'	24:DA:1153:C:H5'	2.19	0.41
24:DA:1448:G:H5'	24:DA:1543:A:OP1	2.19	0.41
24:DA:1653:G:O6	36:D0:9:LYS:O	2.38	0.41
24:DA:1676:A:H2'	24:DA:1677:A:O4'	2.20	0.41
24:DA:1794:U:H2'	24:DA:1795:C:H6	1.85	0.41
24:DA:1805:U:O2	26:DD:50:THR:HB	2.20	0.41
24:DA:1904:G:O2'	24:DA:1905:C:H5'	2.20	0.41
24:DA:1917:U:O2'	24:DA:1918:A:H5'	2.20	0.41
24:DA:2291:U:H5"	24:DA:2380:C:O2'	2.21	0.41
24:DA:2456:C:H6	24:DA:2456:C:O5'	2.03	0.41
24:DA:2473:U:O2	24:DA:2473:U:C2'	2.67	0.41
24:DA:2649:U:C2	24:DA:2672:G:N2	2.88	0.41
24:DA:2870:C:H5"	36:D0:65:LEU:CD2	2.49	0.41
25:DB:43:C:H5'	49:D4:1:MET:HA	2.01	0.41
26:DD:14:ARG:CG	26:DD:15:PHE:N	2.83	0.41
26:DD:145:VAL:CG1	26:DD:146:GLU:N	2.84	0.41
30:DH:169:VAL:HG22	30:DH:170:ARG:N	2.25	0.41
32:DM:7:LYS:C	32:DM:9:VAL:H	2.28	0.41
32:DM:109:LYS:N	32:DM:109:LYS:CD	2.83	0.41
33:DN:97:ARG:CA	33:DN:117:LEU:HD22	2.50	0.41
33:DN:112:MET:N	33:DN:112:MET:HE2	2.34	0.41
38:DR:24:PRO:HA	38:DR:49:VAL:CG1	2.39	0.41
38:DR:77:PRO:C	38:DR:79:HIS:H	2.29	0.41
38:DR:134:GLU:OE1	38:DR:135:ALA:N	2.53	0.41
39:D1:92:ARG:HD2	40:D2:11:GLN:CD	2.43	0.41
41:DS:1:MET:HG3	41:DS:2:GLU:N	2.36	0.41
41:DS:68:ARG:O	41:DS:110:LYS:N	2.46	0.41
44:DV:20:ARG:O	44:DV:20:ARG:CD	2.68	0.41
44:DV:48:PHE:CE2	44:DV:52:SER:HA	2.55	0.41
44:DV:70:LEU:HB2	44:DV:91:LEU:HD21	2.01	0.41
44:DV:136:PHE:HD1	44:DV:136:PHE:C	2.27	0.41
45:D3:36:ILE:HA	45:D3:60:PHE:CB	2.51	0.41
48:DX:37:LEU:HD23	48:DX:37:LEU:N	2.35	0.41
1:AA:8:A:N7	4:AG:208:SER:O	2.54	0.41
1:AA:308:C:H2'	1:AA:309:G:H8	1.85	0.41
1:AA:404:U:H2'	1:AA:405:U:C6	2.56	0.41
1:AA:408:A:C4	1:AA:409:G:C8	3.08	0.41
1:AA:439:A:C4	1:AA:496:A:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:736:C:C2	1:AA:737:A:N7	2.88	0.41
1:AA:965:A:H5"	1:AA:966:G:OP1	2.20	0.41
1:AA:1000:A:C3'	1:AA:1001:G:H5"	2.40	0.41
1:AA:1205:U:O2'	1:AA:1206:G:H5'	2.21	0.41
1:AA:1240:U:OP2	7:AJ:116:ALA:CB	2.69	0.41
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.21	0.41
1:AA:1323:G:O2'	1:AA:1324:A:H5'	2.20	0.41
1:AA:1363:A:H1'	1:AA:1365:G:C8	2.48	0.41
1:AA:1483:A:H2	24:BA:1959:G:N3	2.18	0.41
2:AE:39:ILE:O	2:AE:41:ILE:HD12	2.21	0.41
2:AE:74:LYS:HB3	2:AE:75:LYS:H	1.57	0.41
4:AG:21:LEU:CD1	4:AG:21:LEU:N	2.73	0.41
5:AH:11:ILE:HB	5:AH:31:LEU:HD22	2.01	0.41
6:AI:25:ILE:HG21	6:AI:82:ARG:HD2	2.02	0.41
7:AJ:36:LYS:HA	7:AJ:39:ALA:CB	2.51	0.41
7:AJ:50:ILE:O	7:AJ:52:GLU:N	2.53	0.41
7:AJ:53:LYS:HB2	7:AJ:125:MET:HE1	2.02	0.41
9:AL:79:LEU:O	9:AL:79:LEU:HD13	2.20	0.41
10:AM:50:ILE:C	10:AM:52:GLY:N	2.78	0.41
14:AQ:14:PRO:O	14:AQ:15:LYS:O	2.38	0.41
15:AR:60:VAL:O	15:AR:64:ARG:HB2	2.20	0.41
15:AR:81:LEU:CD1	15:AR:85:LEU:HD12	2.49	0.41
17:AT:5:VAL:HG22	17:AT:60:ILE:HG13	2.03	0.41
17:AT:52:LYS:HD2	17:AT:52:LYS:N	2.32	0.41
18:AU:58:LEU:HD21	18:AU:66:LEU:HD22	2.01	0.41
20:AW:27:LYS:O	20:AW:30:LYS:HB2	2.20	0.41
24:BA:232:G:HO2'	24:BA:233:A:H5'	1.85	0.41
24:BA:415:A:H2'	24:BA:416:C:H6	1.86	0.41
24:BA:654(C):G:C4	24:BA:654(S):G:C2	3.08	0.41
24:BA:659:C:H5"	24:BA:659:C:H6	1.85	0.41
24:BA:673:C:H2'	24:BA:674:G:H5'	2.01	0.41
24:BA:959:A:O2'	24:BA:960:A:H5'	2.21	0.41
24:BA:1022:G:N2	24:BA:1142(A):A:H2	2.18	0.41
24:BA:1261:C:H2'	24:BA:1262:A:O5'	2.21	0.41
24:BA:1344:G:C5'	24:BA:1384:A:H62	2.33	0.41
24:BA:1373:A:H2'	24:BA:1374:G:O4'	2.20	0.41
24:BA:1378:A:C2'	24:BA:1379:A:C5'	2.91	0.41
24:BA:1464:C:O2'	24:BA:1528:A:C8	2.45	0.41
24:BA:1825:A:H2'	24:BA:1826:G:C8	2.56	0.41
24:BA:1934:C:H2'	24:BA:1935:G:O4'	2.20	0.41
24:BA:1937:A:H2'	24:BA:1939:U:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2012:G:H5”	41:BS:96:ILE:HD11	2.02	0.41
24:BA:2037:G:H2’	24:BA:2038:G:H8	1.81	0.41
24:BA:2169:A:H2’	24:BA:2169:A:N3	2.36	0.41
24:BA:2259:G:H2’	24:BA:2260:C:H6	1.84	0.41
24:BA:2407:G:O5’	24:BA:2407:G:C8	2.73	0.41
24:BA:2469:A:H1’	24:BA:2482:G:C6	2.56	0.41
24:BA:2681:C:N3	24:BA:2724:C:C5	2.89	0.41
24:BA:2745:C:H4’	30:BH:142:GLY:O	2.20	0.41
27:BE:68:ALA:HA	27:BE:71:GLY:HA3	2.03	0.41
27:BE:202:LYS:HD3	27:BE:202:LYS:N	2.35	0.41
28:BF:53:THR:C	28:BF:55:GLY:N	2.76	0.41
28:BF:125:LEU:HD23	28:BF:125:LEU:N	2.09	0.41
29:BG:121:ASN:HB2	29:BG:181:ARG:NH2	2.35	0.41
29:BG:142:PRO:HG2	29:BG:143:GLU:OE1	2.21	0.41
29:BG:143:GLU:CA	49:B4:31:ILE:HD13	2.50	0.41
30:BH:22:GLY:HA2	30:BH:37:VAL:CG2	2.51	0.41
30:BH:137:ASP:CG	30:BH:140:LYS:HG3	2.45	0.41
30:BH:147:ASN:N	30:BH:147:ASN:ND2	2.64	0.41
32:BM:19:GLU:HB3	32:BM:59:LYS:HE3	2.02	0.41
32:BM:112:LEU:O	32:BM:115:ARG:N	2.53	0.41
32:BM:128:HIS:HB2	32:BM:129:PRO:HD2	2.02	0.41
33:BN:26:LYS:HB3	33:BN:27:GLY:H	1.72	0.41
34:BO:149:GLU:O	34:BO:150:ALA:C	2.62	0.41
35:BP:82:ARG:O	35:BP:84:GLY:N	2.47	0.41
36:B0:63:ARG:O	36:B0:64:ARG:C	2.63	0.41
39:B1:83:LEU:HG	39:B1:88:ILE:HD11	2.03	0.41
40:B2:41:GLY:N	40:B2:46:VAL:CG1	2.81	0.41
40:B2:60:GLU:O	40:B2:61:VAL:C	2.63	0.41
43:BU:20:TYR:CD1	43:BU:20:TYR:N	2.89	0.41
43:BU:81:LYS:CD	43:BU:97:ARG:CZ	2.98	0.41
49:B4:18:CYS:HB3	49:B4:36:CYS:HB2	1.33	0.41
53:B8:14:VAL:CG1	53:B8:22:VAL:HG13	2.50	0.41
53:B8:36:LYS:H	53:B8:36:LYS:HG2	1.57	0.41
1:CA:20:U:H2’	1:CA:21:G:O4’	2.20	0.41
1:CA:186(E):C:H2’	1:CA:186(F):C:C6	2.54	0.41
1:CA:321:A:H2’	1:CA:322:C:C5	2.55	0.41
1:CA:448:A:C2	1:CA:449:C:O2	2.73	0.41
1:CA:474:G:H2’	1:CA:475:G:H8	1.85	0.41
1:CA:524:G:C6	1:CA:525:C:N4	2.88	0.41
1:CA:653:A:H1’	8:CK:56:LYS:HD3	2.02	0.41
1:CA:812:C:OP1	1:CA:903:G:H1’	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:848:C:O2'	1:CA:849:C:H5'	2.20	0.41
1:CA:891:U:C2'	1:CA:892:A:H5'	2.50	0.41
1:CA:937:A:C2	1:CA:1379:G:O6	2.74	0.41
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.86	0.41
3:CF:88:ARG:NH2	3:CF:101:LEU:O	2.53	0.41
3:CF:113:ALA:HB3	3:CF:114:PRO:CD	2.43	0.41
3:CF:128:PHE:O	3:CF:130:VAL:N	2.54	0.41
4:CG:198:VAL:CG1	4:CG:199:ASN:H	2.32	0.41
5:CH:26:PHE:CD1	5:CH:26:PHE:N	2.87	0.41
5:CH:68:GLU:O	5:CH:68:GLU:CG	2.68	0.41
9:CL:49:PRO:O	9:CL:85:LEU:HD21	2.20	0.41
9:CL:118:LYS:NZ	9:CL:118:LYS:HB3	2.34	0.41
10:CM:40:LEU:HB3	10:CM:41:PRO:HD2	2.02	0.41
13:CP:12:ASN:N	13:CP:12:ASN:HD22	2.18	0.41
14:CQ:18:VAL:CG2	14:CQ:19:ARG:N	2.82	0.41
16:CS:9:PHE:HB3	16:CS:10:GLY:H	1.64	0.41
22:CD:34:C:N4	23:C1:14:A:N6	2.60	0.41
24:DA:260:G:H1'	24:DA:621:A:H8	1.85	0.41
24:DA:273(A):G:H2'	24:DA:273(B):C:O4'	2.20	0.41
24:DA:612:G:C4	24:DA:613:U:O2	2.73	0.41
24:DA:614:U:O2'	24:DA:615:G:OP1	2.36	0.41
24:DA:1084:A:N3	24:DA:1085:A:N7	2.67	0.41
24:DA:1176:G:O2'	24:DA:1178:C:H5	2.04	0.41
24:DA:1288:U:H2'	24:DA:1327:C:O2	2.20	0.41
24:DA:1530:G:C6	24:DA:1531:C:C4	3.09	0.41
24:DA:1534:G:C8	24:DA:1534:G:C5'	3.04	0.41
24:DA:1914:C:H2'	24:DA:1915:U:O4'	2.20	0.41
24:DA:2080:G:H2'	24:DA:2081:C:C6	2.55	0.41
24:DA:2156:G:N1	24:DA:2157:G:N2	2.68	0.41
24:DA:2612:C:C5	24:DA:2613:U:H5	2.38	0.41
26:DD:158:ALA:O	26:DD:196:VAL:HG11	2.21	0.41
26:DD:215:LEU:H	26:DD:215:LEU:HG	1.59	0.41
26:DD:239:ARG:O	26:DD:240:ALA:CB	2.62	0.41
27:DE:35:GLN:HG3	27:DE:37:ARG:NH2	2.35	0.41
27:DE:186:GLY:C	27:DE:188:VAL:H	2.28	0.41
28:DF:59:TYR:HB3	28:DF:60:SER:H	1.70	0.41
30:DH:76:VAL:C	30:DH:78:GLY:N	2.78	0.41
31:DK:56:LYS:NZ	31:DK:60:GLU:HB2	2.36	0.41
31:DK:93:THR:O	31:DK:97:ILE:HG12	2.21	0.41
32:DM:21:LYS:O	32:DM:22:THR:O	2.39	0.41
33:DN:71:ARG:HH11	38:DR:74:ARG:HH21	1.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DQ:83:LYS:HE3	37:DQ:84:GLN:CG	2.49	0.41
39:D1:83:LEU:HG	39:D1:88:ILE:HG13	2.02	0.41
39:D1:92:ARG:O	39:D1:92:ARG:CG	2.54	0.41
39:D1:92:ARG:NH2	40:D2:11:GLN:O	2.53	0.41
40:D2:16:PRO:HB3	40:D2:97:LYS:O	2.20	0.41
40:D2:21:ARG:HD2	40:D2:91:TYR:CE2	2.55	0.41
40:D2:44:LYS:C	40:D2:46:VAL:N	2.77	0.41
42:DT:7:VAL:O	42:DT:30:VAL:CG1	2.67	0.41
42:DT:57:LEU:HD12	42:DT:57:LEU:H	1.85	0.41
43:DU:41:GLY:O	43:DU:42:VAL:C	2.63	0.41
43:DU:95:LYS:H	43:DU:95:LYS:CD	2.33	0.41
44:DV:157:LEU:O	44:DV:158:PRO:O	2.37	0.41
47:DW:61:LEU:HD23	47:DW:61:LEU:HA	1.85	0.41
49:D4:38:LYS:HG3	49:D4:44:THR:OG1	2.20	0.41
49:D4:48:ARG:O	49:D4:49:PHE:C	2.63	0.41
1:AA:585:G:H4'	12:AO:8:ASN:ND2	2.35	0.41
1:AA:599:C:O2'	1:AA:600:C:H5'	2.20	0.41
1:AA:814:A:H4'	1:AA:1511:G:H5'	2.02	0.41
1:AA:949:A:H2'	1:AA:950:U:O4'	2.21	0.41
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.54	0.41
1:AA:1190:G:OP2	3:AF:5:ILE:CG2	2.69	0.41
1:AA:1237:C:C4'	1:AA:1334:G:H21	2.33	0.41
1:AA:1253:G:N1	1:AA:1285:A:N6	2.68	0.41
1:AA:1298:C:C6	7:AJ:114:ARG:NH1	2.88	0.41
3:AF:43:LEU:O	3:AF:44:GLU:C	2.62	0.41
4:AG:14:ARG:NH1	4:AG:14:ARG:HG3	2.34	0.41
4:AG:18:LYS:CD	4:AG:32:ALA:HB3	2.51	0.41
4:AG:73:ARG:HA	4:AG:73:ARG:HD2	1.64	0.41
5:AH:50:GLU:HB3	5:AH:53:LEU:HD12	2.01	0.41
5:AH:57:LYS:HE2	5:AH:61:TYR:CE2	2.47	0.41
7:AJ:48:LYS:C	7:AJ:50:ILE:N	2.79	0.41
15:AR:24:SER:HB3	15:AR:27:VAL:HB	2.03	0.41
15:AR:39:LEU:HD11	15:AR:56:LEU:HB2	2.03	0.41
18:AU:74:ARG:C	18:AU:81:PHE:HE1	2.28	0.41
19:AV:20:LEU:C	19:AV:22:LEU:N	2.77	0.41
19:AV:80:TYR:O	19:AV:81:ARG:CB	2.68	0.41
24:BA:319:C:H2'	24:BA:320:A:O4'	2.21	0.41
24:BA:540:G:H2'	24:BA:541:C:C6	2.55	0.41
24:BA:1537:C:O5'	24:BA:1537:C:H6	2.03	0.41
24:BA:1612:C:H4'	52:B7:5:TRP:O	2.21	0.41
24:BA:1695:G:N2	24:BA:1696:G:C8	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1821:A:OP1	26:BD:201:HIS:HD2	2.04	0.41
24:BA:2287:A:N6	24:BA:2344:U:O2	2.43	0.41
24:BA:2287:A:N3	24:BA:2289:G:C8	2.89	0.41
24:BA:2344:U:H4'	24:BA:2345:G:O5'	2.20	0.41
24:BA:2459:A:C2	24:BA:2460:U:H1'	2.55	0.41
24:BA:2849:U:O2'	24:BA:2868:A:N3	2.53	0.41
24:BA:2849:U:C2'	24:BA:2850:A:OP2	2.68	0.41
25:BB:16:G:C2	25:BB:17:C:C2	3.09	0.41
26:BD:44:ASN:ND2	26:BD:49:ILE:HG22	2.35	0.41
26:BD:74:GLY:O	26:BD:75:ILE:C	2.62	0.41
27:BE:101:ARG:CZ	27:BE:171:GLU:HB3	2.50	0.41
27:BE:188:VAL:HA	27:BE:189:PRO:HD2	1.75	0.41
27:BE:203:LYS:HD3	27:BE:204:ALA:HB3	2.02	0.41
28:BF:119:ARG:HH11	28:BF:119:ARG:HG2	1.84	0.41
28:BF:195:ASP:O	28:BF:198:ALA:N	2.52	0.41
29:BG:38:VAL:HG22	29:BG:39:ILE:N	2.35	0.41
29:BG:96:ARG:NH1	29:BG:96:ARG:HG2	2.35	0.41
29:BG:102:PHE:O	29:BG:104:GLU:N	2.54	0.41
29:BG:135:LEU:O	29:BG:136:ARG:O	2.38	0.41
32:BM:97:ARG:HA	32:BM:97:ARG:HD3	1.94	0.41
33:BN:8:LEU:N	33:BN:8:LEU:CD2	2.84	0.41
34:BO:14:LYS:O	34:BO:14:LYS:HD2	2.20	0.41
34:BO:109:GLY:O	34:BO:110:TYR:O	2.38	0.41
34:BO:140:ALA:O	34:BO:141:ALA:HB2	2.21	0.41
35:BP:89:ASN:HB2	35:BP:90:VAL:H	1.66	0.41
37:BQ:52:SER:HB2	37:BQ:55:ALA:HB2	2.02	0.41
37:BQ:84:GLN:HA	37:BQ:109:GLY:HA3	2.02	0.41
38:BR:50:ILE:HD12	38:BR:50:ILE:N	2.36	0.41
38:BR:81:PRO:HD2	38:BR:82:LEU:HD12	2.01	0.41
40:B2:62:LEU:CD2	40:B2:95:LEU:HB2	2.51	0.41
41:BS:14:PRO:CB	41:BS:18:ARG:NH2	2.84	0.41
43:BU:102:CYS:HB3	43:BU:103:GLY:H	1.43	0.41
44:BV:139:VAL:O	44:BV:139:VAL:CG1	2.66	0.41
47:BW:53:LEU:O	47:BW:54:LYS:C	2.63	0.41
49:B4:4:GLY:O	49:B4:5:ILE:HG22	2.20	0.41
51:B6:29:ASN:HA	51:B6:32:ASN:OD1	2.20	0.41
1:CA:35:G:N2	12:CO:118:SER:OG	2.52	0.41
1:CA:66:G:O4'	1:CA:173:U:C4	2.74	0.41
1:CA:436:C:O2'	1:CA:437:U:H5'	2.20	0.41
1:CA:485:G:C2'	1:CA:486:U:OP2	2.68	0.41
1:CA:575:G:H4'	1:CA:576:G:O5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:652:U:O4	1:CA:752:G:C2'	2.65	0.41
1:CA:658:G:C2'	1:CA:659:U:H5'	2.51	0.41
1:CA:740:U:O2'	1:CA:741:G:H5'	2.19	0.41
1:CA:1199:U:H4'	10:CM:54:PHE:CE2	2.55	0.41
1:CA:1206:G:H4'	3:CF:192:THR:O	2.20	0.41
1:CA:1284:C:H2'	1:CA:1285:A:N7	2.35	0.41
1:CA:1297:C:O2'	1:CA:1298:C:O5'	2.37	0.41
1:CA:1346:A:C4	7:CJ:10:ARG:NH1	2.88	0.41
1:CA:1405:G:H1'	1:CA:1519:A:O4'	2.20	0.41
1:CA:1446:A:O2'	1:CA:1447:G:O5'	2.36	0.41
2:CE:60:ASP:C	2:CE:62:ALA:H	2.28	0.41
2:CE:130:ARG:HH22	2:CE:138:LEU:HD21	1.85	0.41
4:CG:111:ALA:HB3	4:CG:117:ALA:HB2	2.02	0.41
5:CH:123:LEU:O	5:CH:124:GLY:C	2.62	0.41
7:CJ:17:VAL:HG12	7:CJ:18:TYR:CD1	2.55	0.41
8:CK:26:VAL:O	8:CK:27:PRO:C	2.63	0.41
9:CL:118:LYS:CB	9:CL:118:LYS:HZ2	2.34	0.41
11:CN:21:ILE:HD13	11:CN:84:VAL:HG12	2.02	0.41
12:CO:8:ASN:O	12:CO:11:VAL:HG23	2.20	0.41
12:CO:90:VAL:HG12	12:CO:92:ASP:H	1.85	0.41
13:CP:77:ASN:O	13:CP:78:ILE:C	2.62	0.41
13:CP:119:GLY:O	13:CP:120:LYS:C	2.63	0.41
14:CQ:23:ARG:O	14:CQ:24:CYS:C	2.62	0.41
15:CR:33:THR:O	15:CR:34:LEU:C	2.63	0.41
15:CR:83:GLU:O	15:CR:84:LYS:C	2.63	0.41
18:CU:76:LEU:HD22	18:CU:76:LEU:N	2.35	0.41
19:CV:13:ASP:O	19:CV:14:HIS:O	2.39	0.41
20:CW:14:LYS:O	20:CW:15:ARG:C	2.62	0.41
24:DA:270(T):G:O2'	24:DA:270(U):C:H5'	2.21	0.41
24:DA:363(F):A:H1'	24:DA:364:C:H5	1.85	0.41
24:DA:469:G:H2'	24:DA:470:A:H5"	2.02	0.41
24:DA:554:U:O2'	24:DA:556:G:C8	2.68	0.41
24:DA:605:C:H1'	24:DA:657:U:O2'	2.21	0.41
24:DA:685:A:OP1	52:D7:11:LYS:NZ	2.39	0.41
24:DA:911:A:H2'	35:DP:9:TYR:OH	2.20	0.41
24:DA:1265:A:O2'	24:DA:1266:G:O4'	2.39	0.41
24:DA:1786:A:N1	24:DA:2606:C:C1'	2.84	0.41
24:DA:2171:A:C2	24:DA:2172:U:N3	2.88	0.41
24:DA:2637:U:O2'	24:DA:2638:G:H5'	2.20	0.41
24:DA:2776:A:O2'	24:DA:2777:G:OP2	2.31	0.41
25:DB:56:G:H5"	25:DB:57:A:OP1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:117:VAL:HG22	26:DD:118:VAL:N	2.35	0.41
26:DD:269:PHE:CD2	26:DD:269:PHE:N	2.88	0.41
27:DE:9:VAL:HB	27:DE:10:GLY:H	1.70	0.41
27:DE:24:THR:HB	27:DE:184:VAL:HG23	2.02	0.41
28:DF:64:ILE:HG23	28:DF:65:TRP:CD1	2.54	0.41
29:DG:51:ARG:C	29:DG:53:LEU:H	2.29	0.41
30:DH:86:GLU:HG3	30:DH:165:ALA:CA	2.49	0.41
30:DH:146:ALA:HB2	30:DH:164:TYR:OH	2.20	0.41
32:DM:94:HIS:C	32:DM:95:PRO:O	2.64	0.41
34:DO:146:VAL:C	34:DO:147:LEU:HD22	2.45	0.41
35:DP:118:LEU:HD13	35:DP:131:ILE:HG23	2.02	0.41
36:D0:55:ALA:HA	36:D0:80:PHE:CE2	2.55	0.41
37:DQ:51:ALA:HB3	37:DQ:73:LEU:HD23	2.01	0.41
39:D1:97:ASP:HA	39:D1:100:VAL:HG23	2.01	0.41
39:D1:98:LEU:C	39:D1:100:VAL:N	2.77	0.41
41:DS:25:ARG:NH1	41:DS:25:ARG:CB	2.79	0.41
43:DU:87:LYS:HB2	43:DU:87:LYS:HZ2	1.85	0.41
44:DV:29:TYR:O	44:DV:30:ASN:HB3	2.21	0.41
48:DX:37:LEU:HD12	48:DX:43:ILE:CG2	2.50	0.41
51:D6:24:GLU:HB3	51:D6:25:LYS:H	1.56	0.41
1:AA:9:G:OP1	5:AH:122:GLU:HB2	2.21	0.41
1:AA:30:U:O2'	1:AA:31:G:OP1	2.36	0.41
1:AA:92:G:C6	1:AA:93:U:C4	3.09	0.41
1:AA:109:A:H2'	1:AA:326:G:N2	2.29	0.41
1:AA:582:U:C2	1:AA:760:G:C6	3.08	0.41
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.85	0.41
1:AA:1307:U:H6	1:AA:1307:U:O5'	2.03	0.41
1:AA:1500:A:OP2	1:AA:1505:G:OP1	2.37	0.41
3:AF:112:SER:O	3:AF:115:LEU:HB2	2.19	0.41
4:AG:120:LEU:CB	4:AG:126:ILE:HD11	2.37	0.41
5:AH:13:ILE:HD13	5:AH:13:ILE:H	1.86	0.41
6:AI:47:ARG:NH1	6:AI:47:ARG:CB	2.80	0.41
6:AI:62:TRP:CE2	18:AU:35:ARG:NH2	2.88	0.41
7:AJ:30:ILE:HD12	7:AJ:120:ILE:HD11	2.02	0.41
8:AK:83:ILE:HB	8:AK:137:VAL:CG1	2.40	0.41
9:AL:5:TYR:HB3	9:AL:6:GLY:H	1.55	0.41
11:AN:54:ARG:HH11	11:AN:54:ARG:CG	2.33	0.41
12:AO:124:LYS:HG3	12:AO:125:PRO:CG	2.51	0.41
13:AP:35:GLU:CG	13:AP:36:LYS:N	2.79	0.41
24:BA:9:U:OP1	32:BM:115:ARG:NH1	2.48	0.41
24:BA:385:C:O2	24:BA:390:A:H2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:862:G:H3'	24:BA:863:A:H8	1.85	0.41
24:BA:1230:C:H2'	24:BA:1231:G:C8	2.56	0.41
24:BA:1242:A:N1	34:BO:4:SER:HB2	2.35	0.41
24:BA:1292:U:H2'	24:BA:1293:C:H6	1.86	0.41
24:BA:1324:G:H3'	24:BA:1325:G:C5'	2.49	0.41
24:BA:1431:U:H2'	24:BA:1432:C:C6	2.55	0.41
24:BA:1773:A:H2'	24:BA:1774:C:H5'	2.02	0.41
24:BA:2075:U:H2'	24:BA:2238:G:N2	2.35	0.41
24:BA:2443:C:H2'	24:BA:2444:G:C8	2.49	0.41
25:BB:49:C:OP1	37:BQ:97:ARG:CG	2.68	0.41
25:BB:95:U:C4	25:BB:96:G:N7	2.88	0.41
26:BD:12:SER:O	26:BD:16:MET:HE3	2.21	0.41
26:BD:14:ARG:HG2	26:BD:15:PHE:CD2	2.55	0.41
27:BE:63:LEU:HD23	27:BE:64:LYS:O	2.21	0.41
27:BE:79:ARG:NH1	27:BE:79:ARG:HG3	2.35	0.41
27:BE:203:LYS:HE2	27:BE:204:ALA:HB3	2.01	0.41
29:BG:114:ILE:HD11	29:BG:140:ILE:HG21	2.02	0.41
30:BH:46:GLU:O	30:BH:47:GLU:C	2.63	0.41
30:BH:139:GLN:C	30:BH:141:VAL:H	2.29	0.41
31:BK:143:SER:O	31:BK:144:VAL:CG2	2.62	0.41
32:BM:137:LYS:NZ	32:BM:138:LEU:HD23	2.36	0.41
33:BN:71:ARG:O	33:BN:73:ASP:N	2.54	0.41
34:BO:79:ARG:CZ	34:BO:109:GLY:HA3	2.51	0.41
37:BQ:10:ARG:HH21	37:BQ:91:PRO:C	2.28	0.41
38:BR:57:PHE:CG	38:BR:58:ASN:N	2.88	0.41
38:BR:95:ARG:HG3	38:BR:95:ARG:NH1	2.33	0.41
38:BR:96:ARG:HB2	38:BR:96:ARG:CZ	2.50	0.41
39:B1:92:ARG:HG2	39:B1:92:ARG:NH1	2.35	0.41
41:BS:36:LEU:CD1	41:BS:48:ALA:HA	2.36	0.41
42:BT:49:VAL:HB	42:BT:83:VAL:HG23	2.01	0.41
44:BV:18:LEU:HD12	44:BV:18:LEU:N	2.35	0.41
45:B3:7:LEU:HB3	45:B3:8:GLY:H	1.67	0.41
47:BW:48:HIS:HD1	47:BW:49:LYS:HE3	1.86	0.41
49:B4:63:TYR:OH	49:B4:69:LYS:HE3	2.21	0.41
1:CA:50:A:N6	1:CA:361:G:C4'	2.83	0.41
1:CA:281:G:OP2	1:CA:281:G:H8	2.04	0.41
1:CA:451:A:C2	1:CA:480:U:C2	3.08	0.41
1:CA:498:A:H2	1:CA:500:G:N3	2.18	0.41
1:CA:538:G:OP2	12:CO:115:LYS:HG3	2.21	0.41
1:CA:584:G:H8	1:CA:584:G:O5'	2.02	0.41
1:CA:627:G:H2'	1:CA:628:G:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:642:A:H2'	1:CA:643:C:C6	2.56	0.41
1:CA:777:A:H2'	1:CA:778:G:H8	1.85	0.41
1:CA:827:U:C5	1:CA:870:U:C4	3.09	0.41
1:CA:877:C:H5"	8:CK:88:LYS:HD3	2.02	0.41
1:CA:974:A:H1'	14:CQ:31:ARG:HE	1.86	0.41
1:CA:986:A:H1'	19:CV:54:GLY:O	2.21	0.41
2:CE:115:LEU:O	2:CE:119:GLU:N	2.54	0.41
2:CE:231:GLU:HG3	2:CE:233:SER:H	1.86	0.41
3:CF:59:ARG:HH12	3:CF:97:LYS:CE	2.33	0.41
7:CJ:101:LEU:O	7:CJ:104:LEU:HB2	2.21	0.41
7:CJ:122:HIS:CD2	7:CJ:122:HIS:N	2.87	0.41
8:CK:33:GLU:O	8:CK:36:LEU:N	2.53	0.41
8:CK:105:ARG:O	8:CK:107:LEU:N	2.47	0.41
10:CM:45:ARG:HB2	10:CM:65:LEU:HB3	2.03	0.41
11:CN:20:TYR:N	11:CN:31:THR:O	2.54	0.41
11:CN:92:GLU:O	11:CN:95:ILE:N	2.54	0.41
14:CQ:22:THR:HB	14:CQ:33:VAL:CG1	2.50	0.41
14:CQ:34:TYR:N	14:CQ:34:TYR:CD1	2.89	0.41
14:CQ:40:CYS:N	14:CQ:43:CYS:SG	2.87	0.41
16:CS:20:VAL:CG2	16:CS:32:TYR:CD2	3.04	0.41
17:CT:22:LEU:HD13	17:CT:41:LYS:HG2	2.01	0.41
19:CV:7:LYS:CG	19:CV:8:GLY:N	2.83	0.41
20:CW:10:LEU:O	20:CW:12:ALA:N	2.53	0.41
22:CC:47:U:HO2'	22:CC:48:C:P	2.43	0.41
24:DA:218:A:H2	24:DA:235:U:H4'	1.86	0.41
24:DA:270(F):U:H2'	24:DA:270(G):C:H6	1.84	0.41
24:DA:363(A):A:H2'	24:DA:363(B):G:H8	1.86	0.41
24:DA:540:G:H3'	24:DA:541:C:H6	1.85	0.41
24:DA:614:U:C2'	24:DA:615:G:OP1	2.67	0.41
24:DA:803:U:C6	24:DA:803:U:C3'	3.03	0.41
24:DA:877:U:O4	24:DA:899:A:N1	2.53	0.41
24:DA:977:G:C6	24:DA:987:G:C6	3.08	0.41
24:DA:1033:U:N3	24:DA:2750:A:C2	2.88	0.41
24:DA:1181:C:H5'	24:DA:1181:C:C6	2.38	0.41
24:DA:1378:A:C2'	24:DA:1379:A:C5'	2.84	0.41
24:DA:1385:G:C5'	24:DA:1386:C:OP1	2.68	0.41
24:DA:1701:A:H2'	24:DA:1702:G:H5'	2.03	0.41
24:DA:2228:G:C5	24:DA:2229:C:C4	3.08	0.41
24:DA:2377:A:O2'	37:DQ:111:GLU:O	2.36	0.41
24:DA:2486:G:H2'	24:DA:2487:G:O5'	2.21	0.41
24:DA:2520:C:C6	24:DA:2567:G:H1'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2539:C:O2'	24:DA:2540:C:H5'	2.21	0.41
24:DA:2688:U:O2	24:DA:2719:G:C2	2.74	0.41
24:DA:2716:U:O2'	24:DA:2717:G:H5'	2.21	0.41
24:DA:2725:A:O2'	24:DA:2726:U:O5'	2.38	0.41
24:DA:2831:G:O2'	24:DA:2884:U:OP1	2.25	0.41
25:DB:81:G:N7	25:DB:96:G:N3	2.69	0.41
28:DF:129:PHE:O	28:DF:142:TRP:HD1	2.03	0.41
28:DF:133:ASN:O	28:DF:134:GLY:C	2.63	0.41
28:DF:160:ASN:CG	28:DF:163:VAL:HG23	2.45	0.41
28:DF:176:LEU:HD11	28:DF:180:GLY:O	2.19	0.41
31:DK:94:ALA:C	31:DK:96:ASP:N	2.78	0.41
31:DK:117:GLU:O	31:DK:118:LYS:CB	2.67	0.41
33:DN:48:PRO:O	33:DN:50:GLY:N	2.54	0.41
34:DO:96:THR:O	34:DO:97:PRO:C	2.63	0.41
35:DP:45:GLN:HE21	35:DP:45:GLN:H	1.69	0.41
39:D1:89:GLU:C	39:D1:90:VAL:O	2.62	0.41
40:D2:29:PRO:C	40:D2:61:VAL:HG22	2.45	0.41
40:D2:44:LYS:C	40:D2:46:VAL:H	2.28	0.41
41:DS:73:ALA:HB3	41:DS:106:ILE:CG1	2.46	0.41
42:DT:60:ARG:HA	42:DT:75:ASP:OD2	2.20	0.41
43:DU:97:ARG:NE	43:DU:97:ARG:C	2.78	0.41
46:DZ:86:SER:O	46:DZ:89:GLU:HB2	2.21	0.41
1:AA:105:G:C5	1:AA:106:C:C5	3.09	0.41
1:AA:353:A:C8	1:AA:353:A:C5'	2.96	0.41
1:AA:481:G:O2'	1:AA:483:C:N4	2.54	0.41
1:AA:512:U:H2'	1:AA:513:C:H6	1.85	0.41
1:AA:596:C:H5'	1:AA:596:C:C6	2.56	0.41
1:AA:674:G:H1'	18:AU:81:PHE:CE2	2.55	0.41
1:AA:757:U:O2'	1:AA:758:G:H5'	2.21	0.41
1:AA:792:A:N3	1:AA:794:A:N7	2.69	0.41
1:AA:794:A:N3	1:AA:795:C:C4	2.88	0.41
1:AA:1000:A:H2'	1:AA:1001:G:C4'	2.51	0.41
1:AA:1033:G:O2'	1:AA:1034:G:P	2.78	0.41
1:AA:1128:C:H2'	1:AA:1130:A:N7	2.36	0.41
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.50	0.41
1:AA:1279:A:N3	1:AA:1279:A:C2'	2.84	0.41
1:AA:1393:U:HO2'	1:AA:1501:C:HO2'	1.62	0.41
1:AA:1519:A:H2'	1:AA:1520:G:H5'	2.03	0.41
2:AE:61:LEU:CD1	2:AE:66:GLY:HA3	2.49	0.41
2:AE:230:VAL:O	2:AE:231:GLU:O	2.39	0.41
3:AF:181:ASN:ND2	3:AF:204:LEU:CB	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:184:TYR:CD2	3:AF:184:TYR:C	2.99	0.41
5:AH:141:GLN:O	5:AH:143:ARG:HG2	2.21	0.41
5:AH:149:GLU:C	5:AH:151:LEU:N	2.79	0.41
6:AI:21:LEU:O	6:AI:24:GLU:HB3	2.21	0.41
7:AJ:41:ARG:HG3	7:AJ:41:ARG:NH1	2.34	0.41
10:AM:19:SER:C	10:AM:21:GLN:N	2.79	0.41
10:AM:48:THR:CG2	10:AM:60:ARG:HD2	2.50	0.41
11:AN:38:ASN:HA	11:AN:39:PRO:HD3	1.83	0.41
11:AN:108:ILE:HG22	18:AU:87:ARG:HB2	2.03	0.41
13:AP:46:LYS:O	13:AP:48:LEU:N	2.54	0.41
19:AV:11:VAL:CG2	19:AV:16:LEU:HD21	2.50	0.41
22:AC:75:C:P	22:AC:76:A:H5'	2.61	0.41
24:BA:119:A:O2'	24:BA:120:U:OP2	2.39	0.41
24:BA:226:G:O2'	24:BA:227:A:O5'	2.39	0.41
24:BA:235:U:H2'	24:BA:236:C:H6	1.84	0.41
24:BA:319:C:C2'	24:BA:320:A:H5'	2.50	0.41
24:BA:620:G:C4'	24:BA:621:A:OP1	2.69	0.41
24:BA:833:U:H5"	34:BO:48:PRO:HB2	2.02	0.41
24:BA:889:C:O3'	24:BA:890:A:H4'	2.20	0.41
24:BA:1045:A:C2	24:BA:1047:G:N2	2.88	0.41
24:BA:1047:G:H2'	24:BA:1110:G:N1	2.35	0.41
24:BA:1115:G:O2'	24:BA:1116:C:H5'	2.20	0.41
24:BA:1171:G:O2'	24:BA:1173:G:C4	2.73	0.41
24:BA:1325:G:OP2	24:BA:1616:A:H2'	2.20	0.41
24:BA:1429:G:H2'	24:BA:1430:C:H6	1.86	0.41
24:BA:1465:G:C2	24:BA:1466:G:N9	2.88	0.41
24:BA:1585:C:O2	24:BA:1585:C:C2'	2.68	0.41
24:BA:1729:A:O2'	24:BA:1730:U:C5'	2.69	0.41
24:BA:1851:U:C2'	24:BA:1852:C:H5'	2.51	0.41
24:BA:1932:A:H2'	24:BA:1933:G:O4'	2.21	0.41
24:BA:2046:G:N3	24:BA:2047:U:C5	2.89	0.41
24:BA:2158:A:H5"	24:BA:2159:G:OP1	2.21	0.41
24:BA:2205:C:C2	24:BA:2206:C:C5	3.09	0.41
24:BA:2267:A:H5"	24:BA:2268:A:H5"	2.00	0.41
24:BA:2425:A:C4'	24:BA:2426:A:O5'	2.63	0.41
24:BA:2481:G:O2'	24:BA:2482:G:O5'	2.35	0.41
24:BA:2488:A:H2'	24:BA:2489:G:O4'	2.20	0.41
24:BA:2634:G:H4'	27:BE:77:ILE:HD13	2.01	0.41
24:BA:2692:C:O2'	24:BA:2693:A:H5'	2.21	0.41
26:BD:246:PRO:CD	26:BD:255:LYS:HD3	2.50	0.41
27:BE:35:GLN:CB	27:BE:48:GLN:NE2	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:79:ARG:N	27:BE:79:ARG:HD2	2.35	0.41
29:BG:161:THR:HG22	29:BG:163:ALA:H	1.85	0.41
31:BK:31:LEU:N	31:BK:32:PRO:CD	2.84	0.41
31:BK:86:THR:CG2	31:BK:122:GLU:HG3	2.51	0.41
31:BK:125:GLU:O	31:BK:125:GLU:HG3	2.21	0.41
34:BO:62:LEU:O	53:B8:13:ARG:HB3	2.21	0.41
34:BO:85:LEU:HA	34:BO:88:LEU:HB2	1.99	0.41
34:BO:85:LEU:CA	34:BO:88:LEU:HB3	2.45	0.41
34:BO:101:VAL:C	34:BO:103:ALA:N	2.78	0.41
35:BP:20:ALA:HA	35:BP:99:PRO:CG	2.33	0.41
36:B0:2:ARG:NH1	36:B0:3:HIS:CD2	2.89	0.41
36:B0:107:ASP:OD2	36:B0:108:GLY:N	2.53	0.41
42:BT:12:VAL:CG1	42:BT:27:THR:HG23	2.50	0.41
42:BT:39:ILE:O	42:BT:39:ILE:HG22	2.20	0.41
43:BU:98:VAL:O	43:BU:99:CYS:CB	2.66	0.41
44:BV:9:TYR:O	44:BV:37:VAL:HA	2.20	0.41
49:B4:36:CYS:O	49:B4:41:PRO:CG	2.69	0.41
51:B6:10:LEU:CA	51:B6:24:GLU:OE1	2.62	0.41
53:B8:59:LYS:HE3	53:B8:59:LYS:HB2	1.81	0.41
1:CA:96:G:H5'	1:CA:96:G:C8	2.48	0.41
1:CA:186:C:H2'	1:CA:186(A):C:C6	2.55	0.41
1:CA:318:G:H2'	1:CA:319:G:C8	2.53	0.41
1:CA:525:C:H5"	12:CO:91:LYS:NZ	2.36	0.41
1:CA:552:U:H2'	1:CA:553:A:C8	2.55	0.41
1:CA:641:U:C4'	1:CA:642:A:OP1	2.68	0.41
1:CA:649:G:C6	1:CA:650:G:N7	2.89	0.41
1:CA:749:C:O2	1:CA:749:C:H2'	2.21	0.41
1:CA:980:C:O2	14:CQ:19:ARG:O	2.39	0.41
1:CA:1066:C:H42	1:CA:1191:A:H62	1.69	0.41
1:CA:1074:G:H4'	2:CE:104:ASN:HB2	2.02	0.41
1:CA:1187:G:H21	14:CQ:60:SER:CB	2.33	0.41
1:CA:1216:G:H5"	14:CQ:5:ALA:HB2	2.02	0.41
1:CA:1349:A:O2'	1:CA:1350:A:H5'	2.20	0.41
2:CE:62:ALA:O	2:CE:65:GLY:N	2.53	0.41
2:CE:95:GLN:HB3	2:CE:148:TYR:HD1	1.84	0.41
2:CE:200:ILE:CG2	2:CE:201:ILE:N	2.83	0.41
2:CE:224:GLN:C	2:CE:226:ARG:H	2.28	0.41
4:CG:93:PHE:CE1	4:CG:97:LEU:HD11	2.55	0.41
4:CG:101:LEU:CD2	4:CG:121:VAL:HG11	2.50	0.41
4:CG:165:MET:HE3	4:CG:165:MET:CA	2.44	0.41
5:CH:6:PHE:HB2	5:CH:63:ARG:HH12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:68:GLU:HG3	5:CH:70:PRO:HD3	2.03	0.41
11:CN:56:GLY:O	11:CN:89:ALA:HB3	2.21	0.41
11:CN:74:ALA:C	11:CN:76:GLY:H	2.29	0.41
12:CO:52:LEU:O	12:CO:54:LYS:NZ	2.30	0.41
12:CO:89:ARG:HB3	12:CO:97:ARG:HA	2.02	0.41
12:CO:117:ARG:HB3	12:CO:122:THR:HB	2.02	0.41
16:CS:22:THR:HB	16:CS:32:TYR:HB3	2.03	0.41
17:CT:77:VAL:O	17:CT:77:VAL:HG12	2.20	0.41
18:CU:40:LEU:C	18:CU:42:ARG:N	2.76	0.41
18:CU:74:ARG:HG2	18:CU:79:LEU:HB2	2.02	0.41
18:CU:84:LYS:H	18:CU:84:LYS:HG2	1.56	0.41
20:CW:89:ARG:HH12	20:CW:106:ALA:CB	2.34	0.41
24:DA:71:A:H4'	24:DA:72:U:O5'	2.20	0.41
24:DA:301:G:C6	24:DA:317:G:C6	3.08	0.41
24:DA:459:U:OP1	52:D7:39:ARG:HA	2.20	0.41
24:DA:546:C:H5'	24:DA:547:A:N7	2.35	0.41
24:DA:639:U:H2'	24:DA:640:C:C6	2.55	0.41
24:DA:828:U:O2	24:DA:828:U:H3'	2.21	0.41
24:DA:856:C:C6	24:DA:856:C:H5"	2.56	0.41
24:DA:1007:C:O2'	32:DM:108:PRO:HA	2.20	0.41
24:DA:1065:U:O2	24:DA:1073:A:N6	2.52	0.41
24:DA:1080:A:C2'	24:DA:1081:U:O5'	2.69	0.41
24:DA:1081:U:C2	24:DA:1082:U:O2'	2.73	0.41
24:DA:1105:U:O2'	24:DA:1106:G:H5'	2.19	0.41
24:DA:1262:A:C6	24:DA:1263:U:C4	3.08	0.41
24:DA:1338:G:N7	42:DT:62:LYS:NZ	2.59	0.41
24:DA:1586:A:H5"	24:DA:1587:A:N7	2.36	0.41
24:DA:1798:U:O2'	24:DA:1802:A:H1'	2.20	0.41
24:DA:1884:A:O2'	24:DA:1885:A:H5"	2.20	0.41
24:DA:2136:C:H2'	24:DA:2137:C:C6	2.53	0.41
24:DA:2246:G:O2'	24:DA:2247:A:H5'	2.20	0.41
24:DA:2562:U:H2'	24:DA:2563:U:H5'	2.03	0.41
24:DA:2586:C:C5	24:DA:2608:G:N2	2.88	0.41
24:DA:2758:A:C5	30:DH:67:LEU:HD21	2.56	0.41
25:DB:58:A:H5'	25:DB:59:A:OP2	2.20	0.41
26:DD:134:ARG:H	26:DD:134:ARG:HG3	1.55	0.41
26:DD:145:VAL:O	26:DD:154:LYS:N	2.49	0.41
26:DD:182:LEU:N	26:DD:272:ALA:HB3	2.32	0.41
26:DD:197:GLY:O	26:DD:198:ASN:HB3	2.21	0.41
26:DD:240:ALA:HA	26:DD:241:PRO:HD2	1.85	0.41
28:DF:68:LYS:HG2	28:DF:69:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:68:LYS:O	28:DF:69:HIS:HB2	2.21	0.41
29:DG:51:ARG:NH1	29:DG:51:ARG:CB	2.83	0.41
29:DG:95:ARG:CA	29:DG:99:MET:HB3	2.50	0.41
33:DN:47:ILE:HD12	33:DN:48:PRO:CD	2.43	0.41
35:DP:34:LEU:HD11	35:DP:129:THR:CB	2.35	0.41
35:DP:139:GLU:CD	35:DP:139:GLU:H	2.28	0.41
36:D0:91:GLN:NE2	36:D0:91:GLN:N	2.69	0.41
37:DQ:66:ALA:HA	37:DQ:69:VAL:CG1	2.51	0.41
37:DQ:88:ASP:CG	37:DQ:89:ARG:H	2.28	0.41
38:DR:28:VAL:HG23	38:DR:87:ASP:O	2.21	0.41
38:DR:43:GLN:CG	38:DR:44:ASP:N	2.77	0.41
39:D1:39:LEU:O	39:D1:42:ALA:N	2.53	0.41
40:D2:38:LEU:O	40:D2:51:VAL:HA	2.21	0.41
44:DV:56:VAL:C	44:DV:57:ILE:HD12	2.46	0.41
44:DV:134:PRO:O	44:DV:135:GLU:C	2.63	0.41
47:DW:53:LEU:O	47:DW:57:ILE:HG13	2.21	0.41
53:D8:14:VAL:CG1	53:D8:60:LEU:HD11	2.51	0.41
53:D8:17:THR:O	53:D8:20:GLY:N	2.46	0.41
1:AA:12:U:H4'	1:AA:526:C:H4'	2.02	0.41
1:AA:197:A:N6	1:AA:221:C:C5'	2.84	0.41
1:AA:509:A:C5'	4:AG:55:ALA:HB2	2.50	0.41
1:AA:674:G:N2	11:AN:116:HIS:HB2	2.35	0.41
1:AA:682:G:C6	1:AA:709:G:C6	3.08	0.41
1:AA:971:G:O6	1:AA:1364:U:O2	2.39	0.41
1:AA:980:C:H5"	1:AA:981:U:C5	2.56	0.41
1:AA:1005:A:C5'	1:AA:1006:C:C5	3.03	0.41
1:AA:1177:G:C4	1:AA:1178:G:N2	2.89	0.41
1:AA:1184:G:O2'	1:AA:1185:G:H5'	2.21	0.41
1:AA:1502:A:H2	1:AA:1505:G:N2	2.18	0.41
2:AE:73:THR:O	2:AE:74:LYS:O	2.39	0.41
3:AF:52:LEU:O	3:AF:52:LEU:HG	2.21	0.41
3:AF:108:ASN:OD1	3:AF:110:ASN:HB2	2.20	0.41
3:AF:114:PRO:O	3:AF:117:ALA:HB3	2.20	0.41
4:AG:141:ARG:HB3	4:AG:142:PRO:CD	2.51	0.41
7:AJ:121:ALA:O	7:AJ:122:HIS:C	2.64	0.41
8:AK:13:ILE:O	8:AK:17:THR:HG23	2.21	0.41
9:AL:50:LEU:O	9:AL:55:ALA:O	2.39	0.41
10:AM:3:LYS:N	10:AM:74:ILE:O	2.53	0.41
16:AS:9:PHE:CE2	16:AS:18:ARG:NE	2.89	0.41
19:AV:36:ARG:CZ	19:AV:73:GLU:HG3	2.51	0.41
19:AV:47:HIS:O	19:AV:48:THR:CG2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AW:55:ILE:C	20:AW:57:ARG:N	2.78	0.41
21:AX:9:ARG:HG3	21:AX:10:ARG:N	2.35	0.41
22:AD:46:G:H2'	22:AD:47:U:OP2	2.21	0.41
24:BA:13:A:C5'	24:BA:14:A:OP1	2.69	0.41
24:BA:107:C:C2	24:BA:108:U:C5	3.08	0.41
24:BA:205:G:O2'	24:BA:206:U:P	2.79	0.41
24:BA:270(L):U:O2	31:BK:50:ARG:HD2	2.21	0.41
24:BA:539:G:H2'	24:BA:540:G:C8	2.56	0.41
24:BA:869:G:H2'	24:BA:870:A:H8	1.85	0.41
24:BA:1002:G:C2'	24:BA:1003:G:O5'	2.69	0.41
24:BA:1022:G:H4'	24:BA:1023:U:H5'	2.02	0.41
24:BA:1286:A:C6	24:BA:1289:C:C2	3.08	0.41
24:BA:1537:C:O2'	24:BA:1538:G:O5'	2.39	0.41
24:BA:1906:G:C6	24:BA:1907:G:N7	2.89	0.41
24:BA:1944:U:H1'	24:BA:1955:U:O4'	2.21	0.41
24:BA:2461:C:H2'	24:BA:2462:U:H6	1.83	0.41
24:BA:2759:G:H2'	24:BA:2760:C:C5'	2.49	0.41
24:BA:2799:A:H2'	24:BA:2801:A:C8	2.56	0.41
25:BB:42:C:H5"	29:BG:67:LYS:HE3	2.03	0.41
25:BB:65:C:C2'	25:BB:66:A:H5'	2.51	0.41
26:BD:21:PHE:HB3	26:BD:24:ILE:CG1	2.51	0.41
26:BD:44:ASN:CG	26:BD:49:ILE:HG22	2.44	0.41
26:BD:159:ALA:C	26:BD:161:THR:H	2.29	0.41
28:BF:8:GLN:CD	28:BF:8:GLN:C	2.88	0.41
28:BF:65:TRP:CH2	28:BF:75:HIS:HD2	2.38	0.41
30:BH:76:VAL:HG12	30:BH:77:LYS:N	2.36	0.41
30:BH:136:ILE:O	30:BH:136:ILE:HG22	2.20	0.41
31:BK:3:VAL:O	31:BK:18:VAL:HA	2.20	0.41
31:BK:23:PRO:O	31:BK:24:GLY:C	2.63	0.41
31:BK:104:GLN:OE1	31:BK:105:HIS:NE2	2.54	0.41
33:BN:34:THR:OG1	33:BN:35:VAL:N	2.54	0.41
33:BN:98:VAL:O	33:BN:98:VAL:HG13	2.21	0.41
34:BO:59:LEU:HD22	34:BO:59:LEU:C	2.43	0.41
35:BP:110:THR:OG1	35:BP:113:GLN:OE1	2.38	0.41
36:B0:9:LYS:O	36:B0:10:LEU:C	2.63	0.41
39:B1:45:TYR:O	39:B1:49:HIS:HB2	2.20	0.41
39:B1:104:GLN:NE2	39:B1:104:GLN:N	2.54	0.41
40:B2:12:TYR:HH	40:B2:22:VAL:HG23	1.84	0.41
41:BS:94:ASP:OD1	41:BS:94:ASP:N	2.53	0.41
44:BV:45:ASP:O	44:BV:46:LYS:C	2.63	0.41
45:B3:54:GLY:O	45:B3:55:ARG:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BW:37:PHE:O	47:BW:40:SER:HB3	2.20	0.41
48:BX:54:VAL:CG1	48:BX:55:ARG:N	2.83	0.41
49:B4:71:ARG:HH11	49:B4:71:ARG:CB	2.25	0.41
1:CA:91:C:C3'	1:CA:92:G:H5"	2.50	0.41
1:CA:353:A:H2'	1:CA:354:G:OP2	2.21	0.41
1:CA:474:G:C5	1:CA:475:G:N7	2.88	0.41
1:CA:734:G:C6	1:CA:735:C:C4	3.09	0.41
1:CA:981:U:H2'	1:CA:982:U:C5	2.56	0.41
1:CA:1004:A:H2	1:CA:1024:G:C5	2.39	0.41
1:CA:1095:U:C5'	1:CA:1109:C:O2	2.68	0.41
1:CA:1137:C:O2'	1:CA:1138:G:N3	2.53	0.41
1:CA:1210:C:H5'	1:CA:1214:C:H42	1.86	0.41
1:CA:1329:A:H5"	13:CP:29:ARG:HG3	2.01	0.41
1:CA:1450:U:O2'	1:CA:1451:A:P	2.79	0.41
2:CE:23:ARG:H	2:CE:23:ARG:CD	2.30	0.41
2:CE:172:ILE:O	2:CE:173:ALA:C	2.64	0.41
2:CE:212:GLN:NE2	2:CE:212:GLN:O	2.54	0.41
4:CG:15:GLU:N	4:CG:15:GLU:OE1	2.54	0.41
4:CG:77:ASN:H	4:CG:77:ASN:HD22	1.66	0.41
4:CG:127:THR:HG23	4:CG:130:GLY:O	2.20	0.41
5:CH:75:THR:CG2	5:CH:76:ILE:N	2.80	0.41
7:CJ:55:GLY:O	7:CJ:56:GLN:NE2	2.54	0.41
7:CJ:80:VAL:CG1	7:CJ:81:GLY:N	2.83	0.41
8:CK:20:TYR:CD1	8:CK:65:TYR:CD2	2.98	0.41
10:CM:29:ARG:O	10:CM:30:SER:HB3	2.20	0.41
12:CO:25:PRO:HD2	12:CO:97:ARG:HH11	1.86	0.41
12:CO:62:SER:HB2	12:CO:64:TYR:CD1	2.56	0.41
13:CP:15:VAL:O	13:CP:19:LEU:HD22	2.21	0.41
17:CT:11:VAL:HG23	17:CT:12:SER:H	1.85	0.41
18:CU:53:ARG:O	18:CU:55:ARG:N	2.53	0.41
22:CD:68:C:C2	22:CD:69:C:C5	3.08	0.41
24:DA:270(C):C:O5'	24:DA:270(C):C:H6	2.03	0.41
24:DA:270(M):U:H1'	24:DA:270(N):G:N1	2.36	0.41
24:DA:612:G:C2	24:DA:613:U:C2	3.09	0.41
24:DA:654:A:O2'	24:DA:654(A):A:N7	2.52	0.41
24:DA:813:U:OP2	34:DO:23:PRO:O	2.39	0.41
24:DA:988:A:C2'	24:DA:989:G:O5'	2.69	0.41
24:DA:1029:A:H2	24:DA:2465:C:O2	2.04	0.41
24:DA:1429:G:C4	24:DA:1430:C:C5	3.09	0.41
24:DA:1535:U:H2'	24:DA:1536:A:C8	2.50	0.41
24:DA:1694:C:O2'	24:DA:1695:G:OP2	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1774:C:O2	24:DA:1774:C:C2'	2.67	0.41
24:DA:2018:G:H2'	24:DA:2019:A:H8	1.83	0.41
24:DA:2250:G:C4	35:DP:82:ARG:HG3	2.56	0.41
24:DA:2287:A:N6	24:DA:2344:U:C2	2.89	0.41
24:DA:2656:U:O4	24:DA:2665:A:C6	2.73	0.41
26:DD:68:LYS:O	26:DD:68:LYS:HG3	2.20	0.41
27:DE:161:GLY:O	27:DE:162:ALA:HB3	2.20	0.41
29:DG:146:TYR:C	29:DG:148:MET:H	2.28	0.41
30:DH:145:ALA:O	30:DH:148:ILE:HB	2.21	0.41
31:DK:77:LEU:CD1	31:DK:140:LEU:HB2	2.49	0.41
32:DM:62:VAL:CG1	32:DM:66:LYS:HB2	2.50	0.41
32:DM:113:GLY:C	32:DM:114:ARG:O	2.58	0.41
36:D0:55:ALA:O	36:D0:58:GLY:HA3	2.21	0.41
37:DQ:53:SER:HA	37:DQ:56:LEU:CD2	2.50	0.41
41:DS:14:PRO:HG3	41:DS:101:SER:OG	2.21	0.41
41:DS:71:VAL:HA	41:DS:107:LEU:HD12	2.02	0.41
42:DT:83:VAL:CG1	42:DT:87:GLN:HB2	2.50	0.41
44:DV:72:ARG:NH2	44:DV:97:GLU:O	2.54	0.41
44:DV:108:PRO:HB2	44:DV:112:ARG:CB	2.42	0.41
46:DZ:63:ALA:C	46:DZ:65:SER:N	2.78	0.41
47:DW:41:ILE:HD12	47:DW:43:GLN:N	2.35	0.41
51:D6:8:LYS:O	51:D6:9:LEU:HB2	2.20	0.41
52:D7:24:THR:HB	52:D7:25:PRO:HD2	2.03	0.41
53:D8:26:LYS:HD3	53:D8:26:LYS:HA	1.86	0.41
1:AA:15:G:H4'	5:AH:24:ARG:HH12	1.86	0.41
1:AA:129(A):G:HO2'	1:AA:189:U:H3'	1.85	0.41
1:AA:174:C:O2'	1:AA:175:C:H5'	2.21	0.41
1:AA:295:C:H2'	1:AA:296:U:O4'	2.20	0.41
1:AA:355:C:H2'	1:AA:356:A:O4'	2.21	0.41
1:AA:411:A:N7	1:AA:429:U:C5	2.89	0.41
1:AA:571:U:H3'	1:AA:572:A:C5'	2.50	0.41
1:AA:573:A:H2'	1:AA:574:A:C8	2.56	0.41
1:AA:705:U:H2'	1:AA:706:A:H5'	2.02	0.41
1:AA:860:A:H4'	8:AK:75:ARG:NH1	2.35	0.41
1:AA:889:A:O2'	1:AA:890:G:O5'	2.39	0.41
1:AA:926:G:H1	23:A1:16:A:P	2.43	0.41
1:AA:973:G:C3'	1:AA:974:A:H5"	2.40	0.41
1:AA:977:A:O2'	1:AA:978:A:C5'	2.67	0.41
1:AA:1006:C:HO2'	1:AA:1007:C:P	2.43	0.41
1:AA:1028(B):C:H3'	1:AA:1029:G:H4'	2.02	0.41
1:AA:1091:U:O2	1:AA:1093:A:C8	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1227:A:H2'	1:AA:1228:C:O5'	2.21	0.41
1:AA:1255:G:N7	1:AA:1279:A:N1	2.69	0.41
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.21	0.41
1:AA:1299:A:C6	1:AA:1301:U:C2	3.09	0.41
1:AA:1365:G:H2'	1:AA:1366:C:H6	1.86	0.41
1:AA:1466:C:H2'	1:AA:1467:G:O4'	2.21	0.41
1:AA:1479:C:C2	1:AA:1480:G:C8	3.08	0.41
2:AE:18:GLY:HA2	2:AE:40:HIS:O	2.21	0.41
2:AE:21:ARG:HG2	2:AE:39:ILE:CG1	2.49	0.41
2:AE:33:TYR:HB2	2:AE:43:ASP:N	2.36	0.41
3:AF:11:ARG:HH11	3:AF:11:ARG:CG	2.27	0.41
3:AF:84:ILE:CG2	3:AF:88:ARG:NE	2.83	0.41
3:AF:85:ARG:HE	3:AF:85:ARG:CA	2.34	0.41
3:AF:122:GLU:C	3:AF:124:ILE:N	2.75	0.41
4:AG:24:GLU:O	4:AG:27:TYR:HB3	2.20	0.41
5:AH:42:GLY:HA2	5:AH:65:ASN:O	2.21	0.41
5:AH:90:VAL:HG23	5:AH:121:LYS:O	2.20	0.41
5:AH:107:ARG:O	5:AH:110:LEU:N	2.54	0.41
9:AL:22:GLY:C	9:AL:24:GLY:H	2.29	0.41
9:AL:38:GLN:O	9:AL:40:LEU:N	2.53	0.41
9:AL:70:LYS:O	9:AL:71:SER:C	2.63	0.41
9:AL:83:ARG:C	9:AL:86:VAL:HG12	2.45	0.41
9:AL:100:GLY:C	9:AL:102:LEU:N	2.78	0.41
11:AN:20:TYR:HB2	11:AN:31:THR:CG2	2.49	0.41
12:AO:41:ARG:NH1	12:AO:43:VAL:HG12	2.36	0.41
12:AO:54:LYS:NZ	12:AO:75:HIS:CE1	2.88	0.41
12:AO:54:LYS:HB3	12:AO:54:LYS:HE2	1.75	0.41
13:AP:15:VAL:CA	13:AP:45:VAL:CG2	2.96	0.41
13:AP:25:ILE:N	13:AP:25:ILE:CD1	2.84	0.41
13:AP:34:LEU:HA	13:AP:39:ILE:CG1	2.44	0.41
13:AP:79:LYS:HE3	13:AP:82:MET:CE	2.39	0.41
13:AP:80:ARG:NH1	49:B4:55:ARG:HD3	2.36	0.41
17:AT:58:GLU:HB2	17:AT:74:LEU:HB3	2.02	0.41
19:AV:40:ILE:C	19:AV:41:VAL:HG13	2.45	0.41
20:AW:48:LYS:O	20:AW:50:GLU:N	2.54	0.41
22:AC:17:C:N3	22:AC:17(A):C:N4	2.69	0.41
24:BA:221:A:N7	24:BA:266:G:C5	2.89	0.41
24:BA:270(F):U:C2	24:BA:270(G):C:C5	3.09	0.41
24:BA:270(U):C:H2'	24:BA:270(V):G:C8	2.56	0.41
24:BA:270(U):C:OP2	46:BZ:96:LYS:CD	2.69	0.41
24:BA:273(A):G:C2'	24:BA:273(B):C:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:307:G:N2	24:BA:310:A:OP2	2.52	0.41
24:BA:362:U:C5'	24:BA:363:G:OP1	2.61	0.41
24:BA:479:A:H4'	24:BA:480:A:OP1	2.20	0.41
24:BA:688:U:H5'	24:BA:1780:A:C2	2.56	0.41
24:BA:793:A:C2'	24:BA:794:G:OP2	2.68	0.41
24:BA:818:G:C2	24:BA:1190:G:O6	2.73	0.41
24:BA:984:A:H8	24:BA:984:A:O5'	2.04	0.41
24:BA:1348:G:C6	24:BA:1349:A:N7	2.89	0.41
24:BA:1378:A:OP1	52:B7:10:ARG:NH2	2.54	0.41
24:BA:1387:C:C4	24:BA:1388:G:N7	2.89	0.41
24:BA:1397:U:O2	24:BA:1397:U:H2'	2.21	0.41
24:BA:1397:U:O2'	24:BA:1398:C:P	2.79	0.41
24:BA:1493:C:H4'	24:BA:1494:A:OP2	2.17	0.41
24:BA:1547:C:O2'	24:BA:1548:C:H5'	2.20	0.41
24:BA:1608:A:HO2'	24:BA:1610:A:P	2.43	0.41
24:BA:1637:A:H2'	24:BA:1638:C:C6	2.56	0.41
24:BA:1651:G:OP1	36:B0:40:LYS:HG3	2.21	0.41
24:BA:1912:A:N7	24:BA:1918:A:C2	2.89	0.41
24:BA:1965:C:H2'	24:BA:1966:A:C8	2.56	0.41
24:BA:2009:G:N3	36:B0:107:ASP:HA	2.36	0.41
24:BA:2020:A:H5'	50:B5:12:SER:HB3	2.01	0.41
24:BA:2171:A:O2'	24:BA:2172:U:O4'	2.27	0.41
24:BA:2305:A:N1	29:BG:154:GLY:N	2.64	0.41
24:BA:2559:C:O2	24:BA:2559:C:H2'	2.21	0.41
24:BA:2599:G:C8	26:BD:236:GLY:HA2	2.55	0.41
24:BA:2630:G:H1'	24:BA:2894:G:H1'	2.01	0.41
24:BA:2708:G:O2'	24:BA:2709:G:H5'	2.21	0.41
24:BA:2748:A:O2'	24:BA:2749:A:H5'	2.20	0.41
24:BA:2756:U:O4'	24:BA:2757:A:C8	2.73	0.41
24:BA:2808:U:H3	24:BA:2892:A:H62	1.68	0.41
24:BA:2820:A:O4'	36:B0:4:LEU:CD2	2.66	0.41
24:BA:2839:G:H4'	36:B0:49:ASP:HB3	2.03	0.41
24:BA:2851:A:O2'	24:BA:2852:G:H5'	2.21	0.41
26:BD:22:SER:C	26:BD:24:ILE:H	2.28	0.41
26:BD:35:LYS:HE3	26:BD:65:ILE:HG22	2.03	0.41
26:BD:35:LYS:HE2	26:BD:65:ILE:HG22	2.03	0.41
26:BD:215:LEU:HD23	26:BD:215:LEU:HA	1.78	0.41
26:BD:245:PRO:CB	26:BD:253:GLN:OE1	2.69	0.41
27:BE:16:ARG:O	27:BE:17:ASP:CB	2.68	0.41
27:BE:72:VAL:O	27:BE:72:VAL:HG12	2.19	0.41
27:BE:188:VAL:O	27:BE:188:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:24:LEU:O	28:BF:25:PRO:C	2.63	0.41
28:BF:42:ALA:C	28:BF:44:ARG:H	2.29	0.41
28:BF:53:THR:CG2	28:BF:56:GLU:CD	2.85	0.41
28:BF:60:SER:O	28:BF:60:SER:OG	2.39	0.41
29:BG:14:GLU:O	29:BG:17:PRO:HG2	2.21	0.41
29:BG:133:LEU:HD21	29:BG:135:LEU:HD11	2.03	0.41
30:BH:29:PRO:O	30:BH:30:LYS:CB	2.68	0.41
30:BH:76:VAL:O	30:BH:78:GLY:N	2.54	0.41
30:BH:94:TYR:N	30:BH:94:TYR:CD1	2.89	0.41
31:BK:93:THR:O	31:BK:94:ALA:C	2.64	0.41
32:BM:72:TYR:N	32:BM:85:ILE:O	2.54	0.41
34:BO:18:ARG:O	34:BO:19:VAL:HB	2.21	0.41
34:BO:52:GLU:CB	34:BO:55:ARG:HB3	2.50	0.41
34:BO:56:SER:O	34:BO:57:THR:HB	2.21	0.41
34:BO:57:THR:HG21	34:BO:60:MET:CB	2.50	0.41
34:BO:62:LEU:C	34:BO:62:LEU:HD22	2.42	0.41
34:BO:84:ASN:ND2	34:BO:116:GLY:HA3	2.36	0.41
34:BO:118:GLY:O	34:BO:119:GLU:C	2.63	0.41
35:BP:73:PRO:HA	35:BP:93:TYR:CD2	2.56	0.41
35:BP:81:VAL:HG12	35:BP:82:ARG:H	1.86	0.41
35:BP:126:PRO:C	35:BP:127:ILE:HG13	2.46	0.41
35:BP:138:ASP:OD2	35:BP:138:ASP:N	2.54	0.41
38:BR:48:ILE:HD12	38:BR:48:ILE:N	2.36	0.41
38:BR:49:VAL:C	38:BR:50:ILE:HD12	2.45	0.41
38:BR:78:LEU:HD22	38:BR:79:HIS:HD2	1.85	0.41
38:BR:118:ARG:HG2	38:BR:121:ILE:HD12	2.03	0.41
40:B2:1:MET:HE2	40:B2:43:GLU:OE1	2.20	0.41
41:BS:20:VAL:O	41:BS:23:LEU:N	2.40	0.41
41:BS:62:HIS:O	41:BS:63:ASP:C	2.64	0.41
43:BU:28:LYS:HA	43:BU:28:LYS:HE2	2.02	0.41
43:BU:75:ILE:HA	43:BU:80:GLY:HA2	2.02	0.41
44:BV:9:TYR:HB3	44:BV:10:ARG:H	1.45	0.41
44:BV:40:ASP:HB3	44:BV:43:GLU:HG3	2.03	0.41
44:BV:69:THR:HA	44:BV:91:LEU:CD2	2.50	0.41
44:BV:108:PRO:O	44:BV:109:ALA:HB2	2.21	0.41
47:BW:63:VAL:O	47:BW:67:LYS:HD3	2.21	0.41
50:B5:3:LYS:HG3	50:B5:4:HIS:N	2.27	0.41
53:B8:23:VAL:HG13	53:B8:48:PHE:H	1.86	0.41
53:B8:32:LEU:CD2	53:B8:34:TRP:N	2.78	0.41
53:B8:60:LEU:HA	53:B8:60:LEU:HD23	1.77	0.41
1:CA:178:C:O2'	1:CA:179:A:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:274:A:O2'	1:CA:275:G:C8	2.74	0.41
1:CA:392:G:H2'	1:CA:393:A:O4'	2.20	0.41
1:CA:403:C:O2'	4:CG:122:ARG:NH2	2.53	0.41
1:CA:482:A:H2'	1:CA:482:A:N3	2.36	0.41
1:CA:543:C:P	4:CG:14:ARG:HH21	2.44	0.41
1:CA:687:A:C2	1:CA:704:A:C5	3.08	0.41
1:CA:815:A:C2	1:CA:1529:G:N3	2.88	0.41
1:CA:873:A:O5'	1:CA:873:A:C8	2.67	0.41
1:CA:986:A:H2'	1:CA:987:G:C8	2.56	0.41
1:CA:1004:A:C2	1:CA:1024:G:C8	3.09	0.41
1:CA:1032(A):G:H2'	1:CA:1032(B):G:C8	2.56	0.41
1:CA:1048:G:H2'	1:CA:1050:G:H8	1.86	0.41
1:CA:1154:G:N3	1:CA:1155:G:C8	2.89	0.41
1:CA:1170:A:H8	1:CA:1170:A:O5'	2.03	0.41
1:CA:1176:A:N6	1:CA:1177:G:C2	2.89	0.41
1:CA:1217:C:O2'	1:CA:1218:C:H5'	2.21	0.41
1:CA:1224:G:O6	1:CA:1322:C:H1'	2.21	0.41
1:CA:1239:A:H1'	1:CA:1241:G:C5	2.55	0.41
1:CA:1251:A:H1'	1:CA:1369:C:O2'	2.21	0.41
1:CA:1306:A:H61	1:CA:1331:G:H1'	1.86	0.41
1:CA:1312:G:H3'	49:D4:67:TYR:OH	2.21	0.41
1:CA:1336:C:O2	1:CA:1336:C:C2'	2.61	0.41
1:CA:1357:A:C8	1:CA:1357:A:O5'	2.70	0.41
2:CE:47:THR:O	2:CE:51:LEU:N	2.32	0.41
2:CE:87:ARG:HH11	2:CE:223:ILE:HD11	1.82	0.41
2:CE:114:ARG:O	2:CE:118:LEU:HG	2.21	0.41
2:CE:143:GLU:O	2:CE:147:LYS:HB2	2.21	0.41
3:CF:47:LEU:HD11	3:CF:76:VAL:CG1	2.42	0.41
3:CF:47:LEU:CD1	3:CF:76:VAL:HG12	2.42	0.41
3:CF:70:VAL:HG12	3:CF:71:ALA:H	1.85	0.41
3:CF:120:VAL:O	3:CF:123:GLN:HB2	2.20	0.41
4:CG:26:CYS:HA	4:CG:31:CYS:HA	2.03	0.41
4:CG:101:LEU:C	4:CG:101:LEU:HD12	2.45	0.41
4:CG:209:ARG:NE	4:CG:209:ARG:HA	2.36	0.41
5:CH:51:VAL:CB	5:CH:52:PRO:HD3	2.38	0.41
6:CI:7:ASN:ND2	18:CU:34:TYR:CE1	2.88	0.41
6:CI:101:ALA:HA	18:CU:28:GLU:CD	2.45	0.41
8:CK:133:LEU:HD23	8:CK:133:LEU:C	2.46	0.41
9:CL:10:ARG:CG	9:CL:105:ASP:HB2	2.51	0.41
10:CM:54:PHE:CZ	10:CM:55:LYS:CE	3.04	0.41
11:CN:21:ILE:CD1	11:CN:82:VAL:HG13	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:62:GLN:C	11:CN:64:ALA:N	2.76	0.41
11:CN:124:LYS:HB3	11:CN:125:PHE:CD1	2.47	0.41
12:CO:21:LYS:N	12:CO:21:LYS:CD	2.83	0.41
12:CO:38:THR:HG22	12:CO:57:LYS:HB3	2.01	0.41
12:CO:62:SER:O	12:CO:64:TYR:N	2.54	0.41
12:CO:64:TYR:HB3	12:CO:65:GLU:H	1.69	0.41
13:CP:110:ARG:HG3	13:CP:110:ARG:O	2.20	0.41
13:CP:117:VAL:O	13:CP:119:GLY:N	2.53	0.41
13:CP:117:VAL:CG2	13:CP:118:ALA:H	2.31	0.41
14:CQ:47:LEU:O	14:CQ:50:LYS:N	2.52	0.41
16:CS:1:MET:O	16:CS:2:VAL:C	2.63	0.41
16:CS:8:ARG:HG2	16:CS:8:ARG:NH1	2.31	0.41
17:CT:52:LYS:O	17:CT:53:LEU:C	2.63	0.41
19:CV:10:PHE:CD2	19:CV:10:PHE:C	2.98	0.41
19:CV:39:THR:HG23	19:CV:68:GLY:O	2.21	0.41
19:CV:39:THR:O	19:CV:40:ILE:HB	2.20	0.41
23:C1:20:A:H2'	23:C1:21:A:C8	2.55	0.41
24:DA:51:G:O2'	24:DA:119:A:C6	2.72	0.41
24:DA:59:U:O2'	24:DA:73:A:H2'	2.20	0.41
24:DA:90:U:O2'	24:DA:91:A:H8	2.02	0.41
24:DA:331:A:O2'	24:DA:332:A:OP1	2.30	0.41
24:DA:356:G:O2'	24:DA:357:A:H5'	2.21	0.41
24:DA:458:G:O2'	24:DA:469:G:C6	2.72	0.41
24:DA:529:A:C6	24:DA:2023:G:C6	3.09	0.41
24:DA:533:G:H5'	39:D1:24:TYR:CE2	2.56	0.41
24:DA:680:G:H2'	24:DA:681:G:C8	2.56	0.41
24:DA:802:A:H2'	24:DA:803:U:C5'	2.51	0.41
24:DA:817:C:O2'	24:DA:839:U:H5"	2.20	0.41
24:DA:988:A:H4'	24:DA:1155:A:N1	2.36	0.41
24:DA:1006:C:O2	32:DM:106:MET:HG2	2.20	0.41
24:DA:1176:G:O2'	24:DA:1177:A:H5'	2.20	0.41
24:DA:1177:A:H5"	24:DA:1178:C:O5'	2.20	0.41
24:DA:1426:G:H8	24:DA:1426:G:O5'	2.03	0.41
24:DA:1471:A:N3	24:DA:1471:A:H2'	2.35	0.41
24:DA:1677:A:N6	24:DA:1678:G:C2	2.89	0.41
24:DA:1694:C:HO2'	24:DA:1695:G:H5"	1.84	0.41
24:DA:1804:C:O5'	24:DA:1804:C:H6	2.04	0.41
24:DA:1902:C:H2'	24:DA:1903:G:O5'	2.21	0.41
24:DA:1937:A:O2'	24:DA:1938:A:OP1	2.28	0.41
24:DA:2133:G:C2	24:DA:2158:A:N6	2.89	0.41
24:DA:2163:C:H5"	24:DA:2172:U:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2164:C:C5	24:DA:2165:G:N7	2.89	0.41
24:DA:2467:C:O2'	24:DA:2468:G:H5'	2.20	0.41
24:DA:2633:G:H5'	24:DA:2811:G:O2'	2.21	0.41
24:DA:2655:G:C2'	24:DA:2656:U:OP2	2.69	0.41
24:DA:2726:U:O2'	24:DA:2727:G:H5'	2.20	0.41
24:DA:2798:C:N4	24:DA:2799:A:H61	2.19	0.41
24:DA:2845:G:N1	24:DA:2871:C:O2	2.42	0.41
25:DB:82:G:C6	25:DB:95:U:O2	2.74	0.41
26:DD:33:LEU:HB3	26:DD:34:VAL:H	1.48	0.41
26:DD:98:VAL:C	26:DD:100:GLY:N	2.79	0.41
26:DD:147:LEU:CD1	26:DD:155:LEU:HD21	2.51	0.41
27:DE:93:VAL:H	27:DE:95:ILE:CD1	2.23	0.41
27:DE:179:GLU:C	27:DE:181:LEU:H	2.28	0.41
28:DF:13:SER:OG	28:DF:14:PRO:HD2	2.21	0.41
28:DF:28:ILE:HD12	28:DF:28:ILE:C	2.46	0.41
29:DG:22:ARG:HH22	29:DG:175:LEU:HD21	1.85	0.41
29:DG:47:LYS:HE3	29:DG:47:LYS:HB2	1.80	0.41
29:DG:67:LYS:NZ	49:D4:6:HIS:CD2	2.89	0.41
30:DH:20:ALA:HB3	30:DH:23:ARG:HG2	2.03	0.41
30:DH:45:VAL:O	30:DH:45:VAL:CG1	2.69	0.41
31:DK:27:ARG:HB3	46:DZ:71:TYR:CE1	2.56	0.41
32:DM:1:MET:O	32:DM:1:MET:HG3	2.19	0.41
32:DM:39:ARG:C	32:DM:41:ASP:H	2.28	0.41
32:DM:101:HIS:HD2	32:DM:102:ALA:N	2.19	0.41
33:DN:10:VAL:HG21	33:DN:16:ALA:HB3	2.03	0.41
33:DN:31:LYS:HA	33:DN:31:LYS:HD3	1.92	0.41
34:DO:39:LYS:HA	34:DO:45:LEU:HD11	1.83	0.41
34:DO:101:VAL:HG23	34:DO:106:LEU:HB3	2.03	0.41
36:D0:29:LEU:HD11	36:D0:48:VAL:CG1	2.50	0.41
37:DQ:89:ARG:HG2	37:DQ:89:ARG:NH1	2.36	0.41
37:DQ:93:LYS:HE3	37:DQ:93:LYS:HB2	1.93	0.41
39:D1:57:PHE:O	39:D1:60:LEU:N	2.54	0.41
39:D1:91:ASP:OD2	39:D1:96:ALA:CA	2.69	0.41
40:D2:24:LYS:CA	40:D2:92:THR:HG23	2.38	0.41
41:DS:1:MET:CB	41:DS:64:MET:HE3	2.48	0.41
41:DS:55:ALA:O	41:DS:58:ALA:HB3	2.21	0.41
42:DT:53:LYS:HZ1	42:DT:55:ASN:CG	2.29	0.41
43:DU:2:ARG:O	43:DU:3:VAL:O	2.38	0.41
43:DU:5:MET:HE1	43:DU:32:PRO:HB3	2.02	0.41
43:DU:13:VAL:O	43:DU:24:VAL:HA	2.20	0.41
44:DV:72:ARG:O	44:DV:72:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DV:111:VAL:O	44:DV:112:ARG:C	2.63	0.41
45:D3:40:GLN:NE2	45:D3:43:THR:HA	2.36	0.41
50:D5:41:PRO:HA	50:D5:42:PRO:HD3	1.82	0.41
51:D6:6:ARG:NE	51:D6:6:ARG:HA	2.35	0.41
51:D6:27:LYS:NZ	51:D6:27:LYS:CB	2.73	0.41
52:D7:8:ASN:HD21	52:D7:10:ARG:HB3	1.86	0.41
53:D8:53:PRO:C	53:D8:55:ALA:N	2.76	0.41
1:AA:383:A:H2'	1:AA:384:G:C4'	2.51	0.41
1:AA:423:G:O2'	1:AA:424:G:H5'	2.21	0.41
1:AA:436:C:H2'	1:AA:437:U:C6	2.56	0.41
1:AA:445:G:C6	1:AA:490:G:C6	3.09	0.41
1:AA:877:C:O2'	8:AK:89:PRO:HG3	2.21	0.41
1:AA:899:C:H2'	1:AA:900:A:O4'	2.21	0.41
1:AA:999:U:C2'	1:AA:1000:A:OP1	2.69	0.41
1:AA:1074:G:C5	1:AA:1075:C:C5	3.09	0.41
1:AA:1127:G:O2'	1:AA:1147:C:N3	2.54	0.41
2:AE:133:LYS:O	2:AE:136:VAL:N	2.54	0.41
4:AG:24:GLU:N	4:AG:27:TYR:CB	2.82	0.41
4:AG:29:PRO:CG	4:AG:30:LYS:N	2.58	0.41
4:AG:63:LYS:O	4:AG:67:ILE:HG13	2.21	0.41
4:AG:93:PHE:O	4:AG:94:LEU:C	2.63	0.41
4:AG:191:ARG:NH1	4:AG:191:ARG:HA	2.36	0.41
5:AH:100:VAL:HG13	5:AH:118:ILE:CG2	2.46	0.41
6:AI:14:LEU:CD2	6:AI:18:GLN:OE1	2.69	0.41
7:AJ:15:ASP:OD1	7:AJ:19:GLY:N	2.53	0.41
7:AJ:20:ASP:O	7:AJ:21:VAL:CG2	2.54	0.41
9:AL:16:ARG:CB	9:AL:16:ARG:NH1	2.70	0.41
10:AM:13:HIS:CE1	10:AM:14:LYS:HE3	2.55	0.41
10:AM:78:ASN:C	10:AM:80:LYS:H	2.28	0.41
11:AN:66:LEU:O	11:AN:68:ALA:N	2.54	0.41
11:AN:69:ALA:HB1	11:AN:103:LEU:HD21	2.03	0.41
13:AP:34:LEU:HD23	13:AP:34:LEU:H	1.86	0.41
17:AT:11:VAL:HG21	17:AT:88:TYR:CE2	2.56	0.41
21:AX:26:LYS:H	21:AX:26:LYS:HZ3	1.69	0.41
24:BA:212:G:O2'	24:BA:213:A:H5'	2.20	0.41
24:BA:260:G:C2	24:BA:261:G:H1'	2.56	0.41
24:BA:343:C:O2	24:BA:343:C:H2'	2.20	0.41
24:BA:531:C:H5"	24:BA:532:A:O4'	2.20	0.41
24:BA:865:C:C5'	24:BA:866:A:OP1	2.69	0.41
24:BA:946:G:C2'	24:BA:947:G:O5'	2.69	0.41
24:BA:1072:C:H2'	24:BA:1093:G:O6	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1101:U:O2'	24:BA:1102:C:H5'	2.20	0.41
24:BA:1210:A:H5'	24:BA:1212:G:O4'	2.21	0.41
24:BA:1331:A:H2'	24:BA:1333:C:H5	1.86	0.41
24:BA:1520:U:H2'	24:BA:1521:G:C8	2.56	0.41
24:BA:1617:C:H5"	24:BA:1618:A:OP2	2.21	0.41
24:BA:2062:A:N7	24:BA:2503:A:N6	2.69	0.41
24:BA:2162:G:H2'	24:BA:2163:C:O4'	2.21	0.41
24:BA:2173:A:H3'	24:BA:2174:C:H6	1.85	0.41
24:BA:2344:U:OP1	51:B6:38:LYS:HE3	2.21	0.41
24:BA:2627:G:N3	24:BA:2781:A:H2	2.19	0.41
25:BB:96:G:C6	25:BB:97:G:C5	3.09	0.41
26:BD:77:ALA:O	26:BD:116:GLN:HG3	2.19	0.41
26:BD:122:ASP:CG	26:BD:123:ALA:H	2.28	0.41
26:BD:198:ASN:ND2	26:BD:198:ASN:O	2.54	0.41
27:BE:4:ILE:O	27:BE:5:LEU:HD23	2.21	0.41
27:BE:25:VAL:CG1	27:BE:26:ILE:N	2.84	0.41
28:BF:170:LEU:HD12	28:BF:170:LEU:N	2.36	0.41
29:BG:114:ILE:O	29:BG:115:ARG:C	2.64	0.41
30:BH:79:VAL:O	30:BH:79:VAL:HG23	2.20	0.41
32:BM:34:LEU:HD23	32:BM:34:LEU:N	2.36	0.41
34:BO:135:LEU:O	34:BO:139:LYS:HB2	2.21	0.41
37:BQ:49:VAL:HG12	37:BQ:73:LEU:HD22	2.03	0.41
37:BQ:67:ARG:HH11	37:BQ:67:ARG:CB	2.34	0.41
39:B1:36:ARG:HG2	39:B1:40:PHE:CE1	2.56	0.41
39:B1:107:ALA:O	39:B1:110:VAL:HB	2.21	0.41
40:B2:89:GLN:HA	40:B2:90:PRO:HD3	1.82	0.41
40:B2:97:LYS:O	40:B2:98:GLU:CB	2.68	0.41
41:BS:3:ALA:O	41:BS:106:ILE:HA	2.21	0.41
41:BS:44:ALA:O	41:BS:45:TYR:C	2.64	0.41
43:BU:17:SER:HB2	43:BU:71:LYS:CD	2.38	0.41
43:BU:88:LYS:HD3	43:BU:88:LYS:HA	1.93	0.41
44:BV:9:TYR:CE2	44:BV:35:ARG:NH2	2.89	0.41
44:BV:19:ARG:HH11	44:BV:19:ARG:HG3	1.86	0.41
47:BW:48:HIS:ND1	47:BW:49:LYS:HE3	2.36	0.41
49:B4:46:GLN:CG	49:B4:47:GLN:H	2.33	0.41
53:B8:47:LYS:C	53:B8:48:PHE:CD1	2.98	0.41
1:CA:96:G:O2'	1:CA:97:U:H5'	2.20	0.41
1:CA:246:A:C6	1:CA:279:A:C2	3.09	0.41
1:CA:416:G:C5	1:CA:417:C:C4	3.09	0.41
1:CA:577:G:H2'	1:CA:578:C:H6	1.86	0.41
1:CA:922:G:C6	1:CA:923:A:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1376:U:O2	1:CA:1377:A:C8	2.74	0.41
1:CA:1413:A:H2'	1:CA:1414:U:C6	2.56	0.41
1:CA:1485:U:O2'	1:CA:1486:G:H5'	2.21	0.41
2:CE:76:GLN:OE1	2:CE:206:ASP:HB3	2.21	0.41
3:CF:138:VAL:HG22	3:CF:151:VAL:HG23	2.03	0.41
4:CG:12:CYS:O	4:CG:33:MET:HG3	2.21	0.41
4:CG:178:VAL:HG12	4:CG:179:GLU:N	2.35	0.41
5:CH:144:THR:O	5:CH:145:LYS:C	2.63	0.41
8:CK:53:VAL:HG12	8:CK:54:ASP:OD2	2.20	0.41
8:CK:109:ILE:HG13	8:CK:120:THR:HB	2.03	0.41
9:CL:113:LYS:H	9:CL:113:LYS:CD	2.27	0.41
17:CT:63:ARG:HG2	17:CT:64:PRO:HD2	2.03	0.41
17:CT:89:LEU:HD23	17:CT:89:LEU:HA	1.93	0.41
18:CU:30:ASP:C	18:CU:32:ARG:N	2.79	0.41
19:CV:31:ILE:HG23	19:CV:31:ILE:O	2.21	0.41
22:CD:26:G:N2	22:CD:45:G:H21	2.19	0.41
22:CD:60:U:C5'	22:CD:61:C:OP2	2.68	0.41
24:DA:28:A:N6	24:DA:512:G:H1'	2.36	0.41
24:DA:212:G:C2'	24:DA:213:A:H5'	2.51	0.41
24:DA:277:C:H5"	24:DA:278:A:C8	2.55	0.41
24:DA:421:U:O2'	24:DA:422:A:OP2	2.23	0.41
24:DA:552:G:H2'	24:DA:553:U:O4'	2.21	0.41
24:DA:943:U:P	34:DO:36:LYS:HG2	2.61	0.41
24:DA:1092:C:C6	24:DA:1092:C:C3'	3.04	0.41
24:DA:1102:C:O2'	24:DA:1103:A:H5"	2.20	0.41
24:DA:1438:U:O2'	24:DA:1439:A:H5'	2.20	0.41
24:DA:1471:A:C5	24:DA:1522:G:N1	2.89	0.41
24:DA:1509:C:N4	24:DA:1511:A:H62	2.19	0.41
24:DA:1530:G:H2'	24:DA:1531:C:C6	2.55	0.41
24:DA:1688:U:O2	24:DA:1700:A:H8	2.04	0.41
24:DA:2562:U:C2'	24:DA:2563:U:H5'	2.51	0.41
24:DA:2592:G:C6	24:DA:2593:U:C4	3.09	0.41
24:DA:2617:C:C2'	24:DA:2618:G:H5'	2.51	0.41
24:DA:2810:A:H61	24:DA:2891:G:H2'	1.86	0.41
26:DD:228:PRO:HD3	26:DD:234:GLY:O	2.21	0.41
27:DE:71:GLY:O	27:DE:72:VAL:C	2.63	0.41
27:DE:134:ILE:C	27:DE:134:ILE:CD1	2.94	0.41
28:DF:62:ARG:HB3	28:DF:62:ARG:CZ	2.51	0.41
29:DG:53:LEU:CD1	29:DG:87:PRO:HB2	2.51	0.41
30:DH:65:HIS:O	30:DH:66:GLY:C	2.63	0.41
30:DH:137:ASP:HB2	30:DH:140:LYS:CE	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:74:ASN:O	31:DK:75:LEU:C	2.64	0.41
31:DK:94:ALA:O	31:DK:96:ASP:N	2.54	0.41
31:DK:123:LEU:HA	31:DK:142:VAL:HG21	2.02	0.41
32:DM:9:VAL:HB	32:DM:10:GLU:H	1.70	0.41
32:DM:10:GLU:OE2	32:DM:11:PRO:HD2	2.21	0.41
32:DM:61:ARG:C	32:DM:62:VAL:CG2	2.93	0.41
33:DN:16:ALA:HA	33:DN:46:ALA:CB	2.50	0.41
33:DN:86:ILE:N	33:DN:86:ILE:CD1	2.83	0.41
34:DO:18:ARG:HD2	34:DO:27:HIS:CD2	2.56	0.41
34:DO:84:ASN:HB2	34:DO:87:ASP:OD2	2.21	0.41
34:DO:85:LEU:HA	34:DO:85:LEU:HD23	1.92	0.41
40:D2:38:LEU:CD1	40:D2:55:ALA:CB	2.99	0.41
41:DS:28:SER:C	41:DS:30:GLU:H	2.28	0.41
43:DU:14:LEU:HD23	43:DU:14:LEU:C	2.46	0.41
43:DU:42:VAL:HG21	43:DU:67:LEU:CD1	2.51	0.41
43:DU:97:ARG:NH2	43:DU:98:VAL:CG2	2.85	0.41
1:AA:79:G:H4'	1:AA:79:G:OP1	2.21	0.40
1:AA:367:U:C6	1:AA:394:G:N2	2.89	0.40
1:AA:432:A:H3'	1:AA:433:C:C6	2.56	0.40
1:AA:577:G:H1'	1:AA:816:A:C4	2.56	0.40
1:AA:579:G:C6	1:AA:580:U:C4	3.09	0.40
1:AA:728:A:N1	1:AA:729:A:C6	2.89	0.40
1:AA:792:A:C4	1:AA:794:A:C6	3.09	0.40
1:AA:854:G:OP2	1:AA:871:U:C6	2.74	0.40
1:AA:1153:C:C2	1:AA:1154:G:C8	3.09	0.40
1:AA:1206:G:C1'	3:AF:193:TYR:O	2.60	0.40
1:AA:1505:G:C5'	1:AA:1506:U:OP1	2.53	0.40
2:AE:153:ARG:HG2	2:AE:153:ARG:NH1	2.36	0.40
2:AE:184:VAL:HB	2:AE:198:ASP:H	1.87	0.40
2:AE:212:GLN:O	2:AE:212:GLN:CD	2.64	0.40
3:AF:110:ASN:O	3:AF:141:VAL:HG13	2.20	0.40
3:AF:115:LEU:HD23	3:AF:115:LEU:HA	1.88	0.40
3:AF:206:GLU:O	3:AF:207:VAL:CB	2.68	0.40
4:AG:58:LEU:C	4:AG:58:LEU:HD23	2.46	0.40
6:AI:41:GLU:HB3	6:AI:43:LEU:HD11	2.02	0.40
6:AI:67:MET:HE1	6:AI:75:LEU:CD1	2.51	0.40
9:AL:81:ILE:HG22	9:AL:81:ILE:O	2.21	0.40
13:AP:32:GLU:O	13:AP:32:GLU:OE2	2.39	0.40
17:AT:75:ARG:HH11	17:AT:77:VAL:HA	1.85	0.40
19:AV:21:GLU:HG3	19:AV:22:LEU:CD2	2.50	0.40
19:AV:49:ILE:HD13	19:AV:62:ILE:CD1	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AD:7:G:O6	22:AD:49:G:O6	2.39	0.40
22:AD:22:G:H2'	22:AD:23:C:C5	2.52	0.40
24:BA:265:A:HO2'	24:BA:266:G:P	2.44	0.40
24:BA:519:U:H2'	24:BA:520:G:H8	1.85	0.40
24:BA:551:G:H5'	24:BA:1220:A:H1'	2.03	0.40
24:BA:787:U:P	24:BA:1780:A:H62	2.44	0.40
24:BA:1095:A:N3	24:BA:1095:A:C2'	2.82	0.40
24:BA:1114:G:C2	24:BA:1115:G:C5	3.10	0.40
24:BA:1191:G:H2'	24:BA:1192:G:O4'	2.22	0.40
24:BA:1204:A:N1	24:BA:1241:A:H2	2.18	0.40
24:BA:1324:G:H1'	24:BA:1616:A:N1	2.36	0.40
24:BA:1349:A:C2'	24:BA:1350:C:OP1	2.69	0.40
24:BA:1376:C:O2'	24:BA:1377:G:H5'	2.20	0.40
24:BA:1705:G:H2'	24:BA:1706:U:O4'	2.21	0.40
24:BA:1858:G:C6	24:BA:1883:G:C6	3.09	0.40
24:BA:2067:G:H5'	24:BA:2068:U:OP2	2.21	0.40
24:BA:2228:G:C6	24:BA:2229:C:C4	3.09	0.40
24:BA:2312:U:OP2	29:BG:74:LYS:HE2	2.21	0.40
24:BA:2377:A:H4'	37:BQ:111:GLU:C	2.46	0.40
24:BA:2420:C:H41	53:B8:31:HIS:CB	2.24	0.40
24:BA:2620:C:H2'	24:BA:2621:A:O5'	2.21	0.40
24:BA:2620:C:C2'	24:BA:2621:A:O5'	2.69	0.40
24:BA:2679:A:C5'	27:BE:165:VAL:HG11	2.51	0.40
25:BB:44:G:P	49:B4:1:MET:HG3	2.61	0.40
26:BD:43:ARG:CZ	26:BD:49:ILE:HG21	2.51	0.40
27:BE:58:ARG:HH11	27:BE:59:VAL:HG23	1.86	0.40
27:BE:69:LYS:HA	27:BE:69:LYS:HD2	1.88	0.40
28:BF:166:ALA:C	28:BF:168:ARG:N	2.79	0.40
29:BG:91:ARG:C	29:BG:91:ARG:CD	2.92	0.40
30:BH:41:MET:HE3	30:BH:64:LEU:CD1	2.46	0.40
30:BH:168:PRO:O	30:BH:169:VAL:HB	2.20	0.40
31:BK:144:VAL:O	31:BK:145:VAL:CG2	2.69	0.40
32:BM:28:THR:N	32:BM:106:MET:HE1	2.36	0.40
33:BN:88:ASN:OD1	33:BN:92:GLU:HB2	2.21	0.40
34:BO:28:GLY:O	34:BO:29:LYS:C	2.63	0.40
34:BO:45:LEU:HD12	34:BO:46:LYS:H	1.86	0.40
35:BP:1:MET:HE3	35:BP:48:GLU:HG2	2.03	0.40
35:BP:41:TRP:HZ3	35:BP:74:TYR:CE1	2.38	0.40
35:BP:63:LYS:O	35:BP:63:LYS:HG2	2.21	0.40
35:BP:66:ILE:O	35:BP:67:ARG:CB	2.69	0.40
35:BP:89:ASN:O	35:BP:91:GLU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B0:41:ALA:C	36:B0:43:GLU:N	2.78	0.40
37:BQ:26:LEU:O	37:BQ:26:LEU:HD23	2.20	0.40
37:BQ:52:SER:H	37:BQ:55:ALA:CB	2.30	0.40
39:B1:16:LYS:O	39:B1:20:LEU:CD2	2.57	0.40
39:B1:105:VAL:CG2	39:B1:106:PHE:N	2.83	0.40
41:BS:1:MET:HG3	41:BS:2:GLU:H	1.86	0.40
41:BS:70:TYR:O	41:BS:107:LEU:HA	2.21	0.40
45:B3:84:LEU:C	45:B3:84:LEU:HD13	2.46	0.40
47:BW:54:LYS:O	47:BW:57:ILE:HG12	2.22	0.40
49:B4:40:HIS:HA	49:B4:44:THR:HB	2.02	0.40
50:B5:17:ASP:C	50:B5:19:ARG:N	2.77	0.40
1:CA:12:U:H4'	1:CA:526:C:H4'	2.03	0.40
1:CA:338:A:H2	1:CA:351:G:H22	1.64	0.40
1:CA:935:A:N6	7:CJ:3:ARG:HG3	2.36	0.40
1:CA:939:G:C6	1:CA:940:C:N4	2.89	0.40
1:CA:981:U:H5'	14:CQ:21:TYR:CZ	2.56	0.40
1:CA:1004:A:O5'	1:CA:1036:G:O6	2.40	0.40
1:CA:1071:C:O2'	1:CA:1072:G:H5'	2.21	0.40
1:CA:1150:U:H4'	1:CA:1280:A:C2	2.57	0.40
1:CA:1183:A:O2'	1:CA:1184:G:OP1	2.35	0.40
1:CA:1215:G:C2	1:CA:1216:G:C8	3.10	0.40
1:CA:1308:U:OP2	13:CP:99:ARG:HD2	2.21	0.40
1:CA:1346:A:C1'	1:CA:1348:U:C2	3.04	0.40
1:CA:1387:G:C4	1:CA:1388:C:C5	3.09	0.40
1:CA:1503:A:O2'	1:CA:1504:G:O5'	2.38	0.40
1:CA:1537:U:H2'	1:CA:1538:C:C6	2.54	0.40
3:CF:178:LEU:N	3:CF:178:LEU:CD2	2.85	0.40
4:CG:120:LEU:CD2	4:CG:125:HIS:HB2	2.45	0.40
4:CG:170:VAL:CG2	4:CG:171:GLY:H	2.17	0.40
6:CI:40:VAL:HA	6:CI:62:TRP:O	2.21	0.40
6:CI:42:GLU:C	6:CI:44:GLY:H	2.30	0.40
7:CJ:121:ALA:O	7:CJ:125:MET:HG3	2.21	0.40
8:CK:1:MET:O	8:CK:2:LEU:HB2	2.21	0.40
11:CN:91:ARG:NH2	18:CU:88:LYS:HZ3	2.10	0.40
12:CO:22:SER:C	12:CO:24:VAL:N	2.80	0.40
12:CO:43:VAL:HG13	12:CO:55:VAL:HG21	2.03	0.40
15:CR:69:TYR:CZ	15:CR:73:GLU:HG3	2.56	0.40
16:CS:50:LYS:HD3	16:CS:51:VAL:O	2.21	0.40
17:CT:83:ASP:O	17:CT:87:LYS:HG2	2.21	0.40
19:CV:10:PHE:CD2	19:CV:11:VAL:N	2.90	0.40
22:CC:1:C:C2'	22:CC:1:C:O2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CC:58:A:O2'	22:CC:60:U:H6	2.02	0.40
22:CC:61:C:H2'	22:CC:62:C:C6	2.53	0.40
24:DA:323:G:C2'	28:DF:169:ASN:ND2	2.79	0.40
24:DA:709:U:H2'	24:DA:710:G:C8	2.57	0.40
24:DA:855:G:H2'	24:DA:856:C:C6	2.57	0.40
24:DA:865:C:C5'	24:DA:866:A:OP1	2.69	0.40
24:DA:987:G:H2'	24:DA:988:A:C5'	2.51	0.40
24:DA:1043:C:C3'	24:DA:1044:G:H5"	2.51	0.40
24:DA:1340:U:O2'	24:DA:1341:U:P	2.79	0.40
24:DA:1612:C:H4'	52:D7:5:TRP:O	2.20	0.40
24:DA:1922:G:O2'	24:DA:1923:U:H5'	2.21	0.40
24:DA:2405:G:O2'	24:DA:2406:U:P	2.78	0.40
24:DA:2467:C:H2'	24:DA:2468:G:O4'	2.22	0.40
24:DA:2573:C:H5"	24:DA:2574:G:H5"	2.03	0.40
24:DA:2617:C:H2'	24:DA:2618:G:C5'	2.51	0.40
24:DA:2640:G:C2'	24:DA:2641:G:O5'	2.69	0.40
24:DA:2815:C:H2'	24:DA:2816:C:H6	1.86	0.40
24:DA:2816:C:H1'	50:D5:43:HIS:CE1	2.56	0.40
24:DA:2867:G:OP2	24:DA:2867:G:C4'	2.69	0.40
24:DA:2887:U:C2	24:DA:2888:C:C5	3.09	0.40
26:DD:31:LYS:O	26:DD:32:SER:O	2.39	0.40
27:DE:94:GLU:C	27:DE:96:PHE:H	2.28	0.40
29:DG:18:GLU:HA	29:DG:18:GLU:OE2	2.21	0.40
29:DG:98:ARG:CA	29:DG:101:ILE:HG12	2.40	0.40
29:DG:121:ASN:C	29:DG:123:ASN:N	2.79	0.40
33:DN:111:PHE:N	33:DN:112:MET:HE2	2.36	0.40
35:DP:20:ALA:HB1	35:DP:99:PRO:CG	2.51	0.40
35:DP:39:PRO:HA	35:DP:97:VAL:O	2.21	0.40
35:DP:139:GLU:CG	35:DP:140:ALA:N	2.84	0.40
37:DQ:83:LYS:HE3	37:DQ:84:GLN:HG3	2.02	0.40
38:DR:50:ILE:CG2	38:DR:62:THR:OG1	2.68	0.40
38:DR:55:ASN:O	38:DR:55:ASN:CG	2.64	0.40
39:D1:76:TYR:O	39:D1:80:ILE:HG12	2.21	0.40
46:DZ:85:LEU:N	46:DZ:85:LEU:CD2	2.84	0.40
46:DZ:94:LEU:HD23	46:DZ:94:LEU:HA	1.82	0.40
47:DW:11:GLU:HA	47:DW:14:ARG:HD2	2.02	0.40
49:D4:63:TYR:O	49:D4:65:ASP:N	2.54	0.40
1:AA:33:A:H2'	1:AA:34:C:C6	2.57	0.40
1:AA:156:G:O2'	1:AA:157:G:H5'	2.22	0.40
1:AA:195:A:C6	1:AA:196:A:N1	2.90	0.40
1:AA:542:G:H5'	4:AG:41:GLY:CA	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:674:G:H21	11:AN:116:HIS:HB2	1.87	0.40
1:AA:718:G:H5'	11:AN:117:ASN:CG	2.47	0.40
1:AA:1255:G:N7	1:AA:1279:A:C6	2.89	0.40
1:AA:1380:U:H4'	1:AA:1381:U:O5'	2.22	0.40
1:AA:1392:G:N2	1:AA:1502:A:H8	2.19	0.40
2:AE:42:ILE:CD1	2:AE:202:PRO:HB2	2.50	0.40
3:AF:136:GLN:C	3:AF:138:VAL:N	2.77	0.40
5:AH:43:LEU:HD12	5:AH:44:GLY:H	1.86	0.40
5:AH:58:ALA:O	5:AH:62:ALA:CB	2.69	0.40
5:AH:92:LYS:HB3	5:AH:119:LEU:HB2	2.02	0.40
5:AH:93:PRO:HA	5:AH:118:ILE:HD12	2.03	0.40
5:AH:147:ASP:HA	5:AH:150:ARG:HB2	2.04	0.40
6:AI:47:ARG:HB3	6:AI:47:ARG:HH11	1.73	0.40
6:AI:71:ARG:HG3	6:AI:71:ARG:HH11	1.86	0.40
7:AJ:22:LEU:CD1	7:AJ:97:GLN:HE22	2.34	0.40
10:AM:6:ILE:HD13	10:AM:23:ILE:HG21	2.04	0.40
12:AO:90:VAL:O	12:AO:90:VAL:HG12	2.22	0.40
18:AU:35:ARG:HA	18:AU:78:LEU:HD13	2.02	0.40
19:AV:11:VAL:CB	19:AV:16:LEU:HD21	2.49	0.40
19:AV:30:LEU:HD13	19:AV:30:LEU:C	2.47	0.40
22:AD:8:U:OP2	22:AD:8:U:H6	2.04	0.40
22:AD:65:C:C2'	22:AD:66:C:H5'	2.49	0.40
23:A1:8:A:C3'	23:A1:9:G:C5'	2.86	0.40
24:BA:445:C:OP1	39:B1:2:PRO:HA	2.22	0.40
24:BA:528:A:H8	24:BA:528:A:H3'	1.85	0.40
24:BA:529:A:N3	24:BA:529:A:C2'	2.78	0.40
24:BA:540:G:C4	24:BA:541:C:C5	3.09	0.40
24:BA:623:G:H2'	24:BA:624:C:O4'	2.21	0.40
24:BA:686:G:N2	24:BA:788:A:H61	2.19	0.40
24:BA:692:C:P	26:BD:56:GLY:H	2.44	0.40
24:BA:852:G:C2'	24:BA:853:G:H5'	2.51	0.40
24:BA:874:G:H2'	24:BA:875:G:H8	1.84	0.40
24:BA:882:G:H2'	24:BA:883:G:C4'	2.51	0.40
24:BA:1114:G:H2'	24:BA:1115:G:C8	2.56	0.40
24:BA:1204:A:N1	24:BA:1241:A:C2	2.89	0.40
24:BA:1314:C:H5'	24:BA:1314:C:H6	1.83	0.40
24:BA:1345:C:O2'	24:BA:1346:G:H5'	2.22	0.40
24:BA:1547:C:H2'	24:BA:1548:C:H6	1.85	0.40
24:BA:1757:U:N3	24:BA:1762:A:C2	2.65	0.40
24:BA:1800:C:OP2	26:BD:183:ARG:NH2	2.55	0.40
24:BA:1957:C:H2'	24:BA:1958:C:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2405:G:HO2'	24:BA:2406:U:P	2.41	0.40
24:BA:2512:C:H4'	27:BE:122:PHE:CE2	2.56	0.40
24:BA:2556:C:C2'	24:BA:2557:G:H5'	2.51	0.40
24:BA:2689:U:P	24:BA:2719:G:H22	2.44	0.40
24:BA:2756:U:H5"	24:BA:2757:A:OP1	2.20	0.40
24:BA:2811:G:P	27:BE:61:ARG:HG3	2.62	0.40
25:BB:10:C:N4	25:BB:11:C:H41	2.19	0.40
25:BB:67:G:H2'	25:BB:68:C:H6	1.85	0.40
25:BB:114:G:H2'	25:BB:115:G:O4'	2.21	0.40
26:BD:26:LYS:O	26:BD:27:THR:OG1	2.37	0.40
26:BD:31:LYS:HB2	26:BD:31:LYS:HE3	1.83	0.40
27:BE:26:ILE:O	27:BE:27:LEU:CB	2.62	0.40
27:BE:195:LEU:HD12	27:BE:196:VAL:N	2.35	0.40
28:BF:29:ASN:H	28:BF:112:MET:CE	2.34	0.40
28:BF:59:TYR:N	28:BF:59:TYR:CD2	2.88	0.40
29:BG:9:ARG:C	29:BG:11:TYR:N	2.78	0.40
29:BG:46:ALA:C	29:BG:48:GLU:H	2.29	0.40
30:BH:89:ILE:O	30:BH:90:LYS:HB2	2.21	0.40
30:BH:121:ILE:HD13	30:BH:121:ILE:HA	1.91	0.40
30:BH:151:ILE:O	30:BH:152:ARG:O	2.39	0.40
32:BM:6:PRO:HB3	32:BM:41:ASP:OD2	2.22	0.40
32:BM:9:VAL:O	32:BM:9:VAL:HG23	2.22	0.40
34:BO:112:LEU:HD13	34:BO:112:LEU:C	2.47	0.40
35:BP:141:GLN:CA	44:BV:75:ASN:ND2	2.84	0.40
36:B0:103:ARG:HB3	36:B0:108:GLY:HA2	2.03	0.40
38:BR:48:ILE:CG2	38:BR:49:VAL:N	2.84	0.40
39:B1:80:ILE:O	39:B1:80:ILE:CG2	2.69	0.40
44:BV:44:PHE:CZ	44:BV:48:PHE:CD2	3.09	0.40
44:BV:58:VAL:O	44:BV:59:LEU:CG	2.69	0.40
44:BV:105:VAL:O	44:BV:139:VAL:CG1	2.69	0.40
44:BV:155:LEU:O	44:BV:157:LEU:CD1	2.62	0.40
44:BV:159:PRO:HG2	44:BV:160:GLY:N	2.33	0.40
46:BZ:54:ALA:O	46:BZ:55:GLY:O	2.39	0.40
46:BZ:74:VAL:O	46:BZ:74:VAL:HG12	2.20	0.40
46:BZ:88:LYS:HB3	46:BZ:88:LYS:HE2	1.80	0.40
49:B4:28:LYS:HD2	49:B4:31:ILE:HG12	2.03	0.40
49:B4:69:LYS:HG2	49:B4:69:LYS:O	2.22	0.40
1:CA:49:U:H5"	1:CA:50:A:OP2	2.21	0.40
1:CA:184:G:O4'	1:CA:224:C:H4'	2.22	0.40
1:CA:357:G:O2'	1:CA:358:U:H5'	2.20	0.40
1:CA:956:U:O2'	1:CA:957:U:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1122:U:H2'	1:CA:1123:A:O4'	2.21	0.40
1:CA:1208:C:H2'	1:CA:1209:C:O4'	2.20	0.40
1:CA:1320:C:C4	1:CA:1321:C:C4	3.09	0.40
2:CE:17:PHE:HB2	2:CE:42:ILE:CG2	2.50	0.40
2:CE:168:THR:CG2	2:CE:192:SER:HB2	2.51	0.40
3:CF:5:ILE:CD1	3:CF:5:ILE:H	2.34	0.40
3:CF:140:ARG:HB2	3:CF:140:ARG:NH1	2.36	0.40
4:CG:178:VAL:O	4:CG:179:GLU:C	2.63	0.40
8:CK:97:VAL:O	8:CK:100:ILE:HG13	2.20	0.40
9:CL:83:ARG:HG2	9:CL:83:ARG:H	1.64	0.40
9:CL:85:LEU:HD12	9:CL:85:LEU:C	2.45	0.40
13:CP:20:THR:C	13:CP:22:ILE:H	2.29	0.40
14:CQ:15:LYS:O	14:CQ:16:PHE:C	2.63	0.40
17:CT:85:VAL:O	17:CT:85:VAL:HG12	2.20	0.40
17:CT:94:ASN:O	17:CT:97:SER:N	2.53	0.40
22:CD:7:G:C4'	22:CD:8:U:OP2	2.70	0.40
22:CD:18:G:HO2'	22:CD:60:U:H3	1.65	0.40
24:DA:27:G:H1'	24:DA:513:A:H62	1.86	0.40
24:DA:97:C:O2	24:DA:97:C:C2'	2.68	0.40
24:DA:411:G:H4'	24:DA:412:A:H5"	2.03	0.40
24:DA:691:C:O2'	24:DA:692:C:H5'	2.21	0.40
24:DA:1092:C:H2'	24:DA:1093:G:C4'	2.52	0.40
24:DA:1094:U:O2	24:DA:1096:A:H5'	2.20	0.40
24:DA:1322:A:C5	24:DA:1323:U:C5	3.09	0.40
24:DA:1453:A:N6	24:DA:2702:U:H1'	2.37	0.40
24:DA:1533:C:C5'	24:DA:1534:G:OP2	2.70	0.40
24:DA:1534:G:C8	24:DA:1534:G:C4'	3.05	0.40
24:DA:1604:C:O2'	24:DA:1610:A:N1	2.49	0.40
24:DA:1810:A:H2'	24:DA:1811:G:O4'	2.20	0.40
24:DA:2110:G:O2'	24:DA:2111:C:P	2.80	0.40
24:DA:2190:G:H8	24:DA:2190:G:H5'	1.86	0.40
24:DA:2309:A:C8	24:DA:2310:A:C2	3.09	0.40
24:DA:2422:A:OP2	51:D6:6:ARG:NH1	2.55	0.40
24:DA:2635:C:C2'	24:DA:2636:U:O5'	2.69	0.40
25:DB:50:G:H5"	37:DQ:61:ASN:HD21	1.86	0.40
26:DD:13:ARG:HG2	26:DD:13:ARG:O	2.20	0.40
29:DG:34:LEU:HD11	29:DG:99:MET:CE	2.49	0.40
29:DG:112:PRO:CA	49:D4:37:SER:HB2	2.51	0.40
30:DH:146:ALA:HA	30:DH:164:TYR:OH	2.21	0.40
30:DH:169:VAL:CG2	30:DH:170:ARG:H	2.27	0.40
31:DK:98:ALA:O	31:DK:99:GLU:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DN:13:ASN:HD21	33:DN:97:ARG:HB3	1.87	0.40
41:DS:66:GLU:HG2	41:DS:67:ASP:N	2.37	0.40
43:DU:5:MET:CE	43:DU:32:PRO:HB3	2.51	0.40
45:D3:72:ARG:O	45:D3:73:GLY:C	2.64	0.40
46:DZ:91:LYS:HG3	46:DZ:92:LYS:N	2.32	0.40
47:DW:37:PHE:O	47:DW:40:SER:HB3	2.21	0.40
49:D4:42:PHE:CZ	49:D4:43:TYR:HB3	2.57	0.40
49:D4:52:THR:O	49:D4:53:GLU:CB	2.69	0.40
51:D6:50:ARG:NH1	51:D6:50:ARG:HG2	2.37	0.40
53:D8:40:GLU:O	53:D8:42:ARG:N	2.54	0.40
1:AA:468:A:C4'	16:AS:82:GLN:OE1	2.69	0.40
1:AA:581:G:O2'	1:AA:582:U:H5'	2.21	0.40
1:AA:890:G:O2'	1:AA:891:U:P	2.79	0.40
1:AA:991:U:O2	1:AA:993:G:C8	2.74	0.40
1:AA:994:A:H2'	1:AA:994:A:N3	2.37	0.40
1:AA:1019:C:H2'	1:AA:1020:U:O5'	2.21	0.40
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.53	0.40
1:AA:1431:C:O2'	1:AA:1432:G:H5'	2.21	0.40
1:AA:1523:G:OP1	11:AN:123:LYS:CD	2.70	0.40
2:AE:17:PHE:CZ	2:AE:44:LEU:HB3	2.55	0.40
3:AF:13:GLY:HA3	14:AQ:57:ARG:NH2	2.36	0.40
4:AG:3:ARG:CZ	4:AG:5:ILE:HD13	2.52	0.40
8:AK:48:TYR:CD1	8:AK:48:TYR:C	2.99	0.40
11:AN:128:ALA:O	11:AN:129:SER:CB	2.68	0.40
12:AO:34:ARG:O	12:AO:61:THR:HG23	2.21	0.40
12:AO:79:GLU:HG3	12:AO:80:HIS:H	1.84	0.40
13:AP:54:VAL:HG12	13:AP:58:GLU:OE1	2.21	0.40
14:AQ:45:ARG:O	14:AQ:49:HIS:CD2	2.74	0.40
14:AQ:50:LYS:C	14:AQ:52:GLN:N	2.80	0.40
15:AR:15:PHE:O	15:AR:27:VAL:CG2	2.69	0.40
15:AR:38:ARG:O	15:AR:41:GLU:N	2.54	0.40
15:AR:54:ARG:O	15:AR:57:LEU:N	2.55	0.40
19:AV:36:ARG:NH2	19:AV:70:LYS:N	2.69	0.40
20:AW:57:ARG:NH2	20:AW:100:ILE:HG21	2.35	0.40
22:AD:25:C:H2'	22:AD:26:G:C5'	2.52	0.40
24:BA:270(J):G:H8	24:BA:270(J):G:OP2	2.04	0.40
24:BA:270(U):C:H5	46:BZ:96:LYS:HZ1	1.69	0.40
24:BA:331:A:N3	24:BA:1209:G:C6	2.90	0.40
24:BA:587:C:H4'	24:BA:588:U:O5'	2.21	0.40
24:BA:657:U:OP2	24:BA:657:U:H6	2.03	0.40
24:BA:775:G:N2	24:BA:793:A:O2'	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:997:G:OP1	39:B1:93:LYS:HB2	2.22	0.40
24:BA:1047:G:C2'	24:BA:1110:G:H22	2.32	0.40
24:BA:1368:G:O2'	24:BA:1369:G:H5'	2.22	0.40
24:BA:1474:C:H3'	24:BA:1475:G:H8	1.84	0.40
24:BA:1707:G:H2'	24:BA:1708:C:C6	2.57	0.40
24:BA:1810:A:H2'	24:BA:1811:G:O4'	2.21	0.40
24:BA:1888:G:H5'	24:BA:1888:G:N3	2.36	0.40
24:BA:1899:G:O2'	24:BA:1900:A:H5"	2.21	0.40
24:BA:1914:C:H3'	24:BA:1914:C:OP1	2.21	0.40
24:BA:2001:A:OP1	36:B0:9:LYS:NZ	2.54	0.40
24:BA:2077:A:O2'	24:BA:2434:A:O2'	2.34	0.40
24:BA:2285:C:OP2	51:B6:27:LYS:NZ	2.44	0.40
24:BA:2406:U:O4	34:BO:70:GLN:HB2	2.22	0.40
24:BA:2566:A:O2'	24:BA:2567:G:OP2	2.32	0.40
24:BA:2817:G:P	36:B0:99:LYS:HZ1	2.45	0.40
24:BA:2826:A:C5	24:BA:2827:C:C5	3.09	0.40
24:BA:2838:G:C4'	36:B0:45:ARG:HH12	2.34	0.40
24:BA:2842:G:C2'	24:BA:2843:G:H5'	2.51	0.40
25:BB:18:G:H2'	25:BB:19:G:C8	2.57	0.40
25:BB:63:G:H2'	25:BB:64:C:C6	2.57	0.40
25:BB:96:G:N2	25:BB:97:G:C1'	2.84	0.40
26:BD:69:ARG:NH2	26:BD:192:THR:HG21	2.36	0.40
26:BD:88:ARG:O	26:BD:89:SER:C	2.65	0.40
26:BD:246:PRO:CB	26:BD:255:LYS:HD3	2.51	0.40
29:BG:41:GLN:NE2	29:BG:60:LEU:HD12	2.28	0.40
29:BG:117:PHE:CZ	29:BG:119:GLY:HA2	2.57	0.40
30:BH:125:VAL:HG13	30:BH:126:PRO:CA	2.51	0.40
30:BH:127:GLU:O	30:BH:128:PRO:C	2.64	0.40
31:BK:79:ILE:C	31:BK:142:VAL:CG2	2.94	0.40
33:BN:87:ILE:CG2	33:BN:92:GLU:N	2.84	0.40
35:BP:21:THR:N	35:BP:99:PRO:O	2.54	0.40
36:B0:73:VAL:HG12	36:B0:77:ARG:NH1	2.36	0.40
39:B1:34:LYS:HE2	39:B1:34:LYS:CA	2.36	0.40
42:BT:63:LYS:HA	42:BT:72:LYS:HB2	2.03	0.40
43:BU:7:VAL:C	43:BU:8:LYS:HG2	2.46	0.40
44:BV:44:PHE:CD1	44:BV:44:PHE:C	2.99	0.40
45:B3:25:ARG:HD3	45:B3:36:ILE:O	2.22	0.40
46:BZ:92:LYS:C	46:BZ:93:GLU:CG	2.95	0.40
1:CA:299:G:O2'	1:CA:300:A:H5'	2.20	0.40
1:CA:390:C:H2'	1:CA:391:G:H8	1.86	0.40
1:CA:406:G:C2	1:CA:407:G:C8	3.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:453:A:H4'	16:CS:72:ARG:HB2	2.01	0.40
1:CA:913:A:O2'	1:CA:914:A:P	2.78	0.40
1:CA:1054:C:C5	1:CA:1196:U:C4	3.09	0.40
1:CA:1067:A:O2'	1:CA:1068:G:P	2.80	0.40
1:CA:1108:G:H5'	3:CF:176:HIS:ND1	2.36	0.40
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.39	0.40
1:CA:1346:A:O2'	1:CA:1347:G:H1'	2.22	0.40
1:CA:1419:G:O2'	1:CA:1420:C:H5'	2.21	0.40
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.21	0.40
2:CE:70:PHE:O	2:CE:92:TYR:HA	2.22	0.40
2:CE:97:TRP:O	2:CE:98:LEU:C	2.64	0.40
2:CE:223:ILE:O	2:CE:226:ARG:HB3	2.21	0.40
3:CF:13:GLY:O	3:CF:14:ILE:HB	2.21	0.40
3:CF:149:ALA:O	3:CF:169:ALA:CA	2.67	0.40
4:CG:19:LEU:HG	4:CG:21:LEU:HG	2.03	0.40
7:CJ:21:VAL:HG23	7:CJ:22:LEU:N	2.32	0.40
11:CN:83:ILE:HG12	11:CN:109:VAL:CG2	2.51	0.40
11:CN:90:GLY:O	11:CN:94:ALA:HB2	2.21	0.40
13:CP:54:VAL:O	13:CP:54:VAL:HG12	2.21	0.40
13:CP:94:ARG:O	13:CP:95:GLY:C	2.64	0.40
19:CV:29:ARG:HG2	19:CV:29:ARG:NH1	2.37	0.40
20:CW:49:ALA:HA	20:CW:92:LEU:HD21	2.03	0.40
20:CW:97:ALA:C	20:CW:99:LEU:HD13	2.46	0.40
22:CD:67:C:C2	22:CD:68:C:C5	3.10	0.40
24:DA:80:G:O2'	24:DA:81:G:H5'	2.21	0.40
24:DA:412:A:N7	24:DA:2411:A:H2	2.19	0.40
24:DA:476:G:O4'	24:DA:505:A:H2	2.04	0.40
24:DA:503:A:C5	24:DA:506:G:C5	3.10	0.40
24:DA:534:U:H5'	39:D1:42:ALA:HB1	2.02	0.40
24:DA:1044:G:H8	24:DA:1044:G:H5'	1.86	0.40
24:DA:1080:A:H2'	24:DA:1081:U:O5'	2.21	0.40
24:DA:1139:G:O3'	32:DM:24:GLY:HA3	2.21	0.40
24:DA:1241:A:H2'	24:DA:1242:A:O5'	2.22	0.40
24:DA:1280:G:O2'	24:DA:1281:G:H5"	2.22	0.40
24:DA:1310:G:OP2	52:D7:9:ARG:CZ	2.69	0.40
24:DA:1588:C:O2'	24:DA:1589:C:H5'	2.21	0.40
24:DA:1761:C:N4	24:DA:1762:A:N6	2.69	0.40
24:DA:2080:G:H2'	24:DA:2081:C:H6	1.86	0.40
24:DA:2114:A:H2'	24:DA:2115:G:OP1	2.21	0.40
24:DA:2117:A:N7	24:DA:2172:U:N3	2.70	0.40
24:DA:2163:C:N4	24:DA:2164:C:N4	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:2283:C:H5'	51:D6:8:LYS:CE	2.52	0.40
24:DA:2404:C:O3'	34:DO:77:ARG:NH2	2.54	0.40
24:DA:2813:A:H2'	24:DA:2814:C:O4'	2.21	0.40
26:DD:107:ALA:HA	26:DD:108:PRO:HD2	2.01	0.40
26:DD:177:LEU:C	26:DD:179:SER:N	2.79	0.40
26:DD:230:ASP:OD2	26:DD:230:ASP:N	2.54	0.40
28:DF:33:LEU:O	28:DF:37:VAL:HG23	2.21	0.40
28:DF:36:VAL:HG11	28:DF:183:VAL:HG11	2.04	0.40
28:DF:118:ALA:HA	28:DF:123:LEU:HB3	2.02	0.40
29:DG:61:ALA:CB	29:DG:67:LYS:HA	2.50	0.40
30:DH:128:PRO:CG	30:DH:129:THR:H	2.33	0.40
31:DK:9:LEU:CD2	31:DK:12:LEU:O	2.69	0.40
31:DK:10:GLU:O	31:DK:11:ASN:HB3	2.21	0.40
32:DM:7:LYS:CG	32:DM:8:GLN:N	2.81	0.40
38:DR:29:ARG:HB2	38:DR:29:ARG:NH1	2.36	0.40
38:DR:39:ARG:HG2	38:DR:40:THR:N	2.25	0.40
40:D2:35:LEU:O	40:D2:36:PRO:C	2.65	0.40
41:DS:88:ARG:HA	41:DS:88:ARG:HD2	1.92	0.40
44:DV:37:VAL:HG23	44:DV:38:TYR:N	2.36	0.40
49:D4:21:VAL:O	49:D4:22:ILE:O	2.40	0.40
53:D8:39:LYS:HD2	53:D8:39:LYS:O	2.22	0.40
53:D8:53:PRO:O	53:D8:54:GLU:C	2.64	0.40
22:CB:50:G:O5'	22:CB:50:G:H8	2.04	0.40
22:CB:65:G:H2'	22:CB:66:C:H6	1.86	0.40
1:AA:174:C:H2'	1:AA:175:C:H6	1.86	0.40
1:AA:191:G:C5	1:AA:192:U:C5	3.10	0.40
1:AA:327:A:C2	1:AA:329:A:N3	2.89	0.40
1:AA:706:A:N7	1:AA:707:C:H5	2.18	0.40
1:AA:1000:A:H3'	1:AA:1001:G:C5'	2.42	0.40
1:AA:1443:G:N2	24:BA:2863:C:O3'	2.55	0.40
2:AE:132:LYS:NZ	2:AE:135:GLN:HE22	2.20	0.40
3:AF:30:ARG:HB2	14:AQ:36:PHE:O	2.21	0.40
3:AF:114:PRO:HA	3:AF:185:GLY:HA3	2.03	0.40
3:AF:130:VAL:C	3:AF:132:ARG:H	2.30	0.40
4:AG:21:LEU:HD12	4:AG:21:LEU:N	2.36	0.40
4:AG:30:LYS:HZ3	4:AG:30:LYS:HB3	1.87	0.40
6:AI:26:ILE:O	6:AI:30:LEU:HG	2.22	0.40
7:AJ:22:LEU:O	7:AJ:23:VAL:C	2.64	0.40
7:AJ:63:LYS:HG3	7:AJ:64:GLN:N	2.36	0.40
8:AK:68:ARG:HH11	8:AK:68:ARG:HG2	1.86	0.40
8:AK:97:VAL:O	8:AK:100:ILE:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:19:LEU:CD2	9:AL:61:ALA:HA	2.47	0.40
9:AL:25:LYS:H	9:AL:25:LYS:CD	2.30	0.40
9:AL:47:LEU:C	9:AL:49:PRO:HD2	2.45	0.40
13:AP:84:ILE:O	13:AP:84:ILE:HG22	2.21	0.40
19:AV:49:ILE:N	19:AV:60:VAL:HG22	2.31	0.40
20:AW:45:GLN:O	20:AW:45:GLN:HG2	2.21	0.40
24:BA:99:U:H4'	24:BA:102:G:H1'	2.03	0.40
24:BA:149:A:H2'	24:BA:150:C:O4'	2.21	0.40
24:BA:528:A:H3'	24:BA:528:A:C8	2.56	0.40
24:BA:703:U:H2'	24:BA:704:G:O4'	2.21	0.40
24:BA:828:U:O2	24:BA:828:U:C2'	2.66	0.40
24:BA:858:U:H2'	24:BA:2268:A:N3	2.36	0.40
24:BA:2313:C:C2	24:BA:2314:C:C5	3.09	0.40
24:BA:2681:C:O2'	24:BA:2682:U:H5'	2.21	0.40
24:BA:2682:U:C5	27:BE:11:MET:HE2	2.55	0.40
24:BA:2822:G:OP2	27:BE:110:GLY:O	2.39	0.40
24:BA:2836:U:H2'	24:BA:2837:G:C8	2.56	0.40
24:BA:2840:C:H4'	36:B0:53:HIS:HD2	1.85	0.40
24:BA:2866:U:O2	24:BA:2866:U:H2'	2.20	0.40
26:BD:35:LYS:HZ3	26:BD:104:TYR:CB	2.32	0.40
26:BD:111:LEU:HD22	26:BD:111:LEU:HA	1.86	0.40
26:BD:127:VAL:O	26:BD:127:VAL:HG12	2.22	0.40
26:BD:136:ILE:HA	26:BD:137:PRO:HD3	1.88	0.40
26:BD:179:SER:C	26:BD:181:GLU:N	2.78	0.40
28:BF:10:PRO:HD2	28:BF:13:SER:OG	2.21	0.40
28:BF:95:ARG:O	28:BF:95:ARG:HG3	2.20	0.40
28:BF:161:GLU:O	28:BF:164:ARG:N	2.54	0.40
29:BG:31:VAL:HA	29:BG:32:PRO:HD3	1.87	0.40
29:BG:154:GLY:O	29:BG:155:MET:HB3	2.20	0.40
30:BH:124:GLU:N	30:BH:124:GLU:OE1	2.53	0.40
31:BK:41:GLU:O	31:BK:45:LYS:HG2	2.22	0.40
33:BN:8:LEU:N	33:BN:8:LEU:HD22	2.37	0.40
34:BO:59:LEU:O	34:BO:60:MET:C	2.63	0.40
35:BP:26:TYR:CE1	35:BP:140:ALA:HA	2.57	0.40
35:BP:108:GLY:C	35:BP:109:VAL:CG2	2.94	0.40
36:B0:34:ILE:HD13	36:B0:34:ILE:HA	1.84	0.40
37:BQ:7:TYR:C	37:BQ:9:ARG:N	2.80	0.40
37:BQ:7:TYR:C	37:BQ:9:ARG:H	2.28	0.40
38:BR:6:LEU:C	38:BR:8:LYS:N	2.75	0.40
38:BR:76:PHE:HA	38:BR:77:PRO:HD3	1.78	0.40
40:B2:35:LEU:N	40:B2:35:LEU:CD1	2.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:B2:38:LEU:HD12	40:B2:56:SER:CA	2.52	0.40
40:B2:71:LEU:CA	40:B2:86:GLY:HA3	2.51	0.40
41:BS:31:GLU:O	41:BS:35:ILE:HG13	2.21	0.40
42:BT:18:TYR:C	42:BT:20:GLY:H	2.28	0.40
43:BU:21:LYS:HA	43:BU:21:LYS:HD3	2.01	0.40
44:BV:29:TYR:HA	44:BV:33:LEU:O	2.21	0.40
44:BV:157:LEU:O	44:BV:158:PRO:C	2.65	0.40
44:BV:157:LEU:C	44:BV:161:VAL:HG21	2.47	0.40
51:B6:13:CYS:H	51:B6:22:ALA:HB1	1.81	0.40
51:B6:17:LYS:O	51:B6:18:ARG:CB	2.70	0.40
1:CA:532:A:H2'	1:CA:533:A:OP1	2.22	0.40
1:CA:696:A:H8	1:CA:696:A:O5'	2.04	0.40
1:CA:830:G:O2'	1:CA:831:U:H5'	2.21	0.40
1:CA:1014:A:H5'	19:CV:14:HIS:CD2	2.56	0.40
1:CA:1028(A):C:H2'	1:CA:1028(B):C:H6	1.84	0.40
1:CA:1061:G:C5	1:CA:1062:U:C5	3.09	0.40
1:CA:1124:G:H3'	1:CA:1145:C:H41	1.70	0.40
1:CA:1179:A:H8	1:CA:1179:A:OP1	2.04	0.40
1:CA:1266:G:H8	1:CA:1266:G:O5'	2.03	0.40
2:CE:97:TRP:CH2	2:CE:176:GLU:HB2	2.54	0.40
2:CE:132:LYS:HA	2:CE:135:GLN:CG	2.51	0.40
2:CE:170:GLU:O	2:CE:171:ALA:C	2.64	0.40
3:CF:33:LEU:HD11	14:CQ:53:LEU:HD23	2.04	0.40
3:CF:92:ALA:HB2	3:CF:99:VAL:HG13	2.03	0.40
4:CG:68:TYR:OH	4:CG:196:LEU:HD21	2.22	0.40
4:CG:199:ASN:C	4:CG:201:GLN:N	2.79	0.40
4:CG:199:ASN:OD1	4:CG:201:GLN:HB3	2.21	0.40
5:CH:36:ASP:O	5:CH:37:ARG:HG2	2.22	0.40
6:CI:8:ILE:HG22	6:CI:10:LEU:HD12	2.03	0.40
7:CJ:50:ILE:HA	7:CJ:54:THR:CG2	2.52	0.40
7:CJ:92:SER:HB3	7:CJ:95:ARG:HB2	2.03	0.40
9:CL:9:ARG:CG	9:CL:14:VAL:HG22	2.51	0.40
11:CN:105:VAL:C	11:CN:107:SER:H	2.29	0.40
13:CP:47:ASP:O	13:CP:48:LEU:HB3	2.20	0.40
14:CQ:48:ALA:O	14:CQ:51:GLY:N	2.53	0.40
15:CR:70:LEU:HD23	15:CR:81:LEU:HD23	2.04	0.40
17:CT:8:GLY:HA3	17:CT:21:VAL:HG12	2.03	0.40
20:CW:50:GLU:HA	20:CW:100:ILE:HG22	2.02	0.40
22:CC:37:A:C2	23:C1:16:A:C6	3.10	0.40
24:DA:271(C):U:O2	24:DA:271(C):U:C2'	2.69	0.40
24:DA:332:A:C2	24:DA:335:C:C5	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:654(T):A:C6	24:DA:654(U):A:C4	3.10	0.40
24:DA:860:U:O2	24:DA:2268:A:O4'	2.40	0.40
24:DA:979:G:N2	24:DA:985:C:C4	2.89	0.40
24:DA:1049:C:H1'	24:DA:1113:U:H4'	2.03	0.40
24:DA:1181:C:H6	24:DA:1181:C:C5'	2.24	0.40
24:DA:1204:A:C2	24:DA:1241:A:C2	3.10	0.40
24:DA:1328:G:H2'	24:DA:1330:C:C4	2.57	0.40
24:DA:1507:A:H5'	24:DA:1508:A:OP2	2.21	0.40
24:DA:1509:C:H2'	24:DA:1511:A:H8	1.84	0.40
24:DA:1711:C:O2'	24:DA:1712:C:H5'	2.21	0.40
24:DA:1810:A:C2'	24:DA:1811:G:H5'	2.51	0.40
24:DA:1835:G:H5'	24:DA:1836:C:OP2	2.21	0.40
24:DA:2175:C:C2'	24:DA:2176:A:H5"	2.52	0.40
24:DA:2262:U:H2'	24:DA:2263:C:H6	1.86	0.40
24:DA:2477:C:O5'	24:DA:2477:C:H6	2.05	0.40
24:DA:2708:G:H4'	36:D0:71:GLN:HE22	1.86	0.40
25:DB:7:G:H4'	37:DQ:29:PHE:CD1	2.56	0.40
25:DB:15:A:H3'	25:DB:16:G:H5'	2.03	0.40
27:DE:3:GLY:HA3	27:DE:81:ILE:CG2	2.52	0.40
27:DE:119:ARG:HG2	27:DE:160:TYR:HB2	2.04	0.40
28:DF:116:ASP:OD2	34:DO:1:MET:N	2.44	0.40
28:DF:118:ALA:C	28:DF:120:GLU:N	2.78	0.40
28:DF:124:LEU:HD12	28:DF:125:LEU:O	2.22	0.40
30:DH:26:VAL:HG12	30:DH:33:LEU:HB2	2.03	0.40
31:DK:56:LYS:C	31:DK:56:LYS:CD	2.91	0.40
35:DP:79:LEU:HD13	35:DP:80:GLU:CD	2.40	0.40
37:DQ:20:ARG:HE	37:DQ:21:THR:HA	1.87	0.40
37:DQ:24:LEU:HD22	37:DQ:24:LEU:N	2.37	0.40
38:DR:20:PRO:HG2	38:DR:86:ILE:O	2.21	0.40
39:D1:33:ARG:O	39:D1:37:GLU:HB2	2.21	0.40
41:DS:82:LEU:N	41:DS:98:LYS:O	2.42	0.40
42:DT:9:LEU:HA	47:DW:36:ARG:HH21	1.86	0.40
42:DT:31:HIS:HA	42:DT:32:PRO:HD3	1.88	0.40
44:DV:121:HIS:CD2	44:DV:121:HIS:N	2.86	0.40
44:DV:144:LEU:CD2	44:DV:150:LEU:HD13	2.51	0.40
45:D3:49:LYS:N	45:D3:80:HIS:ND1	2.62	0.40
46:DZ:91:LYS:O	46:DZ:92:LYS:C	2.65	0.40
46:DZ:96:LYS:O	46:DZ:96:LYS:HG2	2.21	0.40
47:DW:10:LEU:O	47:DW:11:GLU:C	2.64	0.40
49:D4:22:ILE:HG22	49:D4:23:GLU:H	1.86	0.40
22:CB:17:C:OP2	22:CB:18:C:O3'	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:149:A:C2	1:AA:172:A:N6	2.90	0.40
1:AA:152:A:C8	1:AA:153:C:C5	3.09	0.40
1:AA:329:A:H2'	1:AA:332:G:N7	2.36	0.40
1:AA:414:A:H5'	1:AA:414:A:H8	1.87	0.40
1:AA:451:A:H1'	1:AA:452:A:C5	2.56	0.40
1:AA:534:U:H5'	1:AA:535:A:OP2	2.21	0.40
1:AA:571:U:O2	1:AA:918:A:H5'	2.21	0.40
1:AA:642:A:C8	8:AK:115:SER:HA	2.56	0.40
1:AA:742:G:P	15:AR:35:ARG:HH22	2.44	0.40
1:AA:971:G:P	1:AA:1231:G:H21	2.43	0.40
1:AA:1002:G:H3'	1:AA:1003:G:O4'	2.22	0.40
1:AA:1004:A:O2'	1:AA:1036:G:O6	2.40	0.40
1:AA:1154:G:N2	1:AA:1155:G:C4	2.90	0.40
1:AA:1161:C:C2	1:AA:1162:C:C5	3.09	0.40
1:AA:1218:C:OP2	14:AQ:9:LYS:NZ	2.54	0.40
1:AA:1227:A:C2	19:AV:83:HIS:HB3	2.56	0.40
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.21	0.40
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.55	0.40
1:AA:1512:U:N3	1:AA:1513:A:N7	2.69	0.40
2:AE:126:GLU:O	2:AE:130:ARG:NH1	2.54	0.40
2:AE:128:GLU:C	2:AE:130:ARG:N	2.79	0.40
3:AF:27:LYS:O	3:AF:27:LYS:HG3	2.21	0.40
3:AF:38:ARG:HE	3:AF:38:ARG:HB2	1.58	0.40
3:AF:89:GLU:C	3:AF:91:LEU:N	2.77	0.40
3:AF:205:GLY:O	3:AF:206:GLU:HG2	2.22	0.40
4:AG:39:PRO:HA	4:AG:40:PRO:HD3	1.89	0.40
4:AG:79:PHE:CD2	4:AG:207:TYR:HD1	2.39	0.40
5:AH:61:TYR:O	5:AH:62:ALA:C	2.64	0.40
6:AI:11:ASN:O	6:AI:14:LEU:HB2	2.22	0.40
7:AJ:16:LEU:O	7:AJ:17:VAL:CB	2.68	0.40
7:AJ:135:VAL:O	7:AJ:138:LYS:N	2.55	0.40
8:AK:133:LEU:O	8:AK:134:ILE:C	2.64	0.40
10:AM:50:ILE:O	10:AM:51:ARG:C	2.65	0.40
12:AO:125:PRO:C	12:AO:126:LYS:O	2.65	0.40
16:AS:14:ASN:N	16:AS:15:PRO:CD	2.83	0.40
18:AU:45:SER:HB3	18:AU:51:LEU:HD21	2.04	0.40
18:AU:55:ARG:HH11	18:AU:55:ARG:HG3	1.86	0.40
20:AW:93:GLU:OE1	20:AW:94:ALA:N	2.54	0.40
24:BA:221:A:C2	24:BA:233:A:C4	3.09	0.40
24:BA:270(P):C:C2	24:BA:270(Q):C:C5	3.09	0.40
24:BA:372:G:O2'	24:BA:400:G:N1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:414:C:H1'	24:BA:1864:U:O2'	2.21	0.40
24:BA:622:G:H2'	24:BA:623:G:H5'	2.02	0.40
24:BA:631:A:H5'	34:BO:65:ARG:HG2	2.03	0.40
24:BA:670:A:C4'	24:BA:671:C:OP1	2.67	0.40
24:BA:1421:G:C2	24:BA:1422:G:C8	3.09	0.40
24:BA:1480:G:H5'	24:BA:1482:U:OP2	2.22	0.40
24:BA:1652:A:C2'	24:BA:1653:G:H5'	2.52	0.40
24:BA:1653:G:C6	36:B0:9:LYS:HG3	2.57	0.40
24:BA:1777:U:C2'	24:BA:1778:U:H5'	2.51	0.40
24:BA:1980:G:H4'	24:BA:1981:A:OP2	2.22	0.40
24:BA:2012:G:O3'	41:BS:96:ILE:CG1	2.70	0.40
24:BA:2094:G:C6	24:BA:2095:C:C4	3.09	0.40
24:BA:2282:G:O2'	24:BA:2390:U:O4	2.40	0.40
24:BA:2517:C:N3	24:BA:2542:A:C6	2.89	0.40
26:BD:10:THR:O	26:BD:11:PRO:C	2.62	0.40
26:BD:223:GLY:O	26:BD:225:ALA:N	2.54	0.40
26:BD:228:PRO:O	26:BD:229:VAL:C	2.62	0.40
26:BD:245:PRO:O	26:BD:246:PRO:C	2.64	0.40
26:BD:257:LEU:HD23	26:BD:258:LYS:O	2.22	0.40
27:BE:35:GLN:NE2	27:BE:37:ARG:HH21	2.20	0.40
27:BE:38:THR:HG21	27:BE:40:GLU:OE1	2.21	0.40
27:BE:53:PRO:O	27:BE:72:VAL:HG12	2.21	0.40
27:BE:108:SER:O	27:BE:162:ALA:CA	2.68	0.40
27:BE:130:GLY:O	27:BE:131:ALA:C	2.63	0.40
27:BE:167:VAL:HG22	27:BE:170:LEU:HD11	2.03	0.40
29:BG:35:GLU:O	29:BG:36:LYS:O	2.39	0.40
29:BG:172:LEU:O	29:BG:176:LEU:HG	2.22	0.40
30:BH:96:ALA:HA	30:BH:105:LEU:HA	2.04	0.40
31:BK:56:LYS:CG	31:BK:57:ARG:N	2.84	0.40
32:BM:87:LEU:HD22	32:BM:91:LEU:HD11	2.03	0.40
33:BN:120:GLU:HB2	38:BR:68:TYR:CE2	2.54	0.40
34:BO:47:ASP:OD2	34:BO:49:ARG:HB2	2.21	0.40
35:BP:16:ARG:NH1	35:BP:16:ARG:CG	2.83	0.40
35:BP:51:ARG:CG	35:BP:52:VAL:N	2.81	0.40
35:BP:57:HIS:O	35:BP:58:PHE:HD2	2.05	0.40
35:BP:83:MET:HE2	35:BP:83:MET:HB2	1.77	0.40
40:B2:66:ARG:H	40:B2:66:ARG:HG2	1.55	0.40
43:BU:13:VAL:HG22	43:BU:14:LEU:O	2.22	0.40
44:BV:29:TYR:C	44:BV:29:TYR:CD1	3.00	0.40
44:BV:118:GLN:HG3	44:BV:173:ALA:CA	2.52	0.40
46:BZ:29:GLY:C	46:BZ:30:VAL:HG22	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B7:47:ARG:H	52:B7:47:ARG:HD3	1.85	0.40
1:CA:217:C:H2'	1:CA:218:C:O4'	2.21	0.40
1:CA:265:G:O2'	17:CT:66:SER:HA	2.22	0.40
1:CA:591:U:H2'	1:CA:592:G:H8	1.87	0.40
1:CA:788:U:C5	1:CA:789:U:C5	3.09	0.40
1:CA:1054:C:O2'	1:CA:1055:A:O5'	2.38	0.40
1:CA:1119:C:H2'	1:CA:1120:G:O4'	2.20	0.40
1:CA:1392:G:O2'	1:CA:1502:A:H5'	2.22	0.40
1:CA:1465:C:H2'	1:CA:1466:C:O4'	2.21	0.40
2:CE:5:ILE:CG2	2:CE:224:GLN:HG2	2.51	0.40
2:CE:213:LEU:C	2:CE:213:LEU:HD23	2.47	0.40
3:CF:70:VAL:CG1	3:CF:71:ALA:H	2.35	0.40
3:CF:108:ASN:HB3	3:CF:111:LEU:CG	2.51	0.40
3:CF:108:ASN:HB3	3:CF:111:LEU:CD1	2.52	0.40
4:CG:47:ARG:O	4:CG:48:ALA:C	2.65	0.40
7:CJ:46:ALA:O	7:CJ:49:ILE:HB	2.21	0.40
7:CJ:118:VAL:HG23	7:CJ:119:ARG:N	2.35	0.40
8:CK:48:TYR:CD2	8:CK:48:TYR:N	2.89	0.40
9:CL:80:GLY:C	9:CL:82:ALA:H	2.29	0.40
12:CO:62:SER:O	12:CO:64:TYR:CD1	2.70	0.40
13:CP:119:GLY:O	13:CP:120:LYS:O	2.38	0.40
16:CS:26:ARG:HH21	16:CS:31:LYS:HG2	1.86	0.40
16:CS:39:TYR:CD2	16:CS:41:PRO:HD3	2.56	0.40
17:CT:68:ARG:O	17:CT:68:ARG:HG3	2.22	0.40
18:CU:73:ALA:HB3	18:CU:79:LEU:CD1	2.47	0.40
20:CW:98:PRO:O	20:CW:100:ILE:N	2.42	0.40
24:DA:53:A:N6	24:DA:117:G:N3	2.66	0.40
24:DA:102:G:O2'	24:DA:103:A:P	2.80	0.40
24:DA:242:G:O3'	53:D8:6:THR:HG23	2.21	0.40
24:DA:389:G:H1	34:DO:71:VAL:HG12	1.87	0.40
24:DA:512:G:O2'	24:DA:513:A:H8	2.04	0.40
24:DA:565:C:H2'	24:DA:566:U:O4'	2.21	0.40
24:DA:620:G:H4'	24:DA:621:A:O5'	2.22	0.40
24:DA:687:C:O2	24:DA:687:C:C2'	2.69	0.40
24:DA:987:G:O2'	24:DA:988:A:H5'	2.21	0.40
24:DA:1026:U:HO2'	24:DA:1027:A:H5"	1.86	0.40
24:DA:1055:G:O2'	24:DA:1085:A:N6	2.53	0.40
24:DA:1342:A:O2'	24:DA:1344:G:OP1	2.39	0.40
24:DA:1364:G:OP1	46:DZ:3:LYS:HG3	2.22	0.40
24:DA:1416:G:O2'	24:DA:1417:C:C6	2.75	0.40
24:DA:1443:G:O2'	24:DA:1444:G:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DA:1681:G:OP2	24:DA:1681:G:H8	2.04	0.40
24:DA:1789:A:OP1	26:DD:221:VAL:HA	2.21	0.40
24:DA:2063:C:C6	24:DA:2064:C:C5	3.10	0.40
24:DA:2177:C:C4	24:DA:2178:C:C5	3.10	0.40
24:DA:2287:A:N6	24:DA:2344:U:O2	2.55	0.40
24:DA:2344:U:O2'	24:DA:2345:G:H5"	2.21	0.40
24:DA:2352:A:C4	24:DA:2366:A:C2	3.09	0.40
24:DA:2567:G:H2'	24:DA:2568:C:H6	1.83	0.40
24:DA:2667:C:H1'	30:DH:109:PHE:CD2	2.45	0.40
24:DA:2684:U:C4	24:DA:2685:G:N7	2.90	0.40
25:DB:49:C:H2'	25:DB:50:G:H8	1.87	0.40
26:DD:142:VAL:HA	26:DD:194:GLY:H	1.86	0.40
26:DD:210:GLY:O	26:DD:211:ARG:C	2.63	0.40
26:DD:238:GLY:O	26:DD:239:ARG:C	2.61	0.40
27:DE:93:VAL:HG21	27:DE:180:ASN:HA	2.03	0.40
28:DF:198:ALA:HA	28:DF:201:VAL:CG1	2.41	0.40
31:DK:116:LEU:C	31:DK:118:LYS:N	2.80	0.40
31:DK:121:LYS:CG	31:DK:122:GLU:N	2.85	0.40
32:DM:53:VAL:HG22	32:DM:121:LYS:HB2	2.04	0.40
33:DN:25:LEU:HD12	33:DN:38:VAL:HG13	2.04	0.40
34:DO:2:LYS:O	34:DO:5:ASP:CB	2.70	0.40
37:DQ:6:ALA:O	37:DQ:10:ARG:HD3	2.21	0.40
38:DR:26:ASP:HB3	38:DR:92:GLY:H	1.87	0.40
43:DU:84:ARG:HH12	43:DU:97:ARG:CB	2.15	0.40
43:DU:95:LYS:HA	43:DU:101:LYS:CB	2.51	0.40
43:DU:97:ARG:O	43:DU:97:ARG:CG	2.70	0.40
43:DU:98:VAL:O	43:DU:99:CYS:HB3	2.21	0.40
45:D3:7:LEU:CD2	45:D3:11:ARG:HG2	2.51	0.40
45:D3:68:GLU:CG	45:D3:80:HIS:HB2	2.50	0.40
51:D6:53:LYS:HB3	51:D6:53:LYS:NZ	2.36	0.40
22:CB:49:C:OP1	22:CB:51:U:OP1	2.40	0.40

All (18) 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)
30:BH:125:VAL:CG2	1:CA:84:U:N1[3_545]	1.00	1.20
30:BH:125:VAL:CG2	1:CA:84:U:C6[3_545]	1.17	1.03
30:BH:126:PRO:CD	1:CA:82:U:O3'[3_545]	1.41	0.79
30:BH:126:PRO:CG	1:CA:84:U:O5'[3_545]	1.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:126:PRO:CG	1:CA:84:U:P[3_545]	1.60	0.60
30:BH:126:PRO:CG	1:CA:84:U:C5'[3_545]	1.66	0.54
30:BH:126:PRO:CG	1:CA:82:U:O3'[3_545]	1.70	0.50
30:BH:125:VAL:CG2	1:CA:84:U:C2[3_545]	1.72	0.48
30:BH:125:VAL:CG1	1:CA:84:U:C3'[3_545]	1.75	0.45
30:BH:125:VAL:CG2	1:CA:84:U:C5[3_545]	1.89	0.31
30:BH:126:PRO:CB	1:CA:84:U:C5'[3_545]	1.90	0.30
30:BH:125:VAL:CG1	1:CA:84:U:C5'[3_545]	1.95	0.25
30:BH:125:VAL:CG1	1:CA:84:U:C4'[3_545]	1.96	0.24
1:AA:85:U:O5'	24:BA:362:U:O4'[3_545]	1.99	0.21
30:BH:126:PRO:CG	1:CA:84:U:OP1[3_545]	2.03	0.17
30:BH:125:VAL:CB	1:CA:84:U:C6[3_545]	2.07	0.13
1:AA:85:U:OP1	24:BA:362:U:O5'[3_545]	2.19	0.01
30:BH:125:VAL:CG2	1:CA:84:U:C1'[3_545]	2.19	0.01

4.3 Torsion angles (i)

4.3.1 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
2	AE	234/256 (91%)	128 (55%)	55 (24%)	51 (22%)	0 1
2	CE	235/256 (92%)	153 (65%)	52 (22%)	30 (13%)	0 3
3	AF	204/239 (85%)	119 (58%)	49 (24%)	36 (18%)	0 1
3	CF	203/239 (85%)	128 (63%)	56 (28%)	19 (9%)	0 6
4	AG	206/209 (99%)	117 (57%)	56 (27%)	33 (16%)	0 2
4	CG	206/209 (99%)	133 (65%)	51 (25%)	22 (11%)	0 5
5	AH	152/162 (94%)	103 (68%)	34 (22%)	15 (10%)	0 6
5	CH	149/162 (92%)	103 (69%)	31 (21%)	15 (10%)	0 6
6	AI	99/101 (98%)	71 (72%)	21 (21%)	7 (7%)	1 10
6	CI	99/101 (98%)	66 (67%)	24 (24%)	9 (9%)	0 7
7	AJ	153/156 (98%)	95 (62%)	42 (28%)	16 (10%)	0 5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
7	CJ	153/156 (98%)	102 (67%)	36 (24%)	15 (10%)	0 6
8	AK	136/138 (99%)	98 (72%)	29 (21%)	9 (7%)	1 11
8	CK	136/138 (99%)	92 (68%)	29 (21%)	15 (11%)	0 5
9	AL	126/128 (98%)	71 (56%)	36 (29%)	19 (15%)	0 2
9	CL	125/128 (98%)	77 (62%)	32 (26%)	16 (13%)	0 3
10	AM	97/105 (92%)	67 (69%)	20 (21%)	10 (10%)	0 5
10	CM	97/105 (92%)	68 (70%)	19 (20%)	10 (10%)	0 5
11	AN	119/129 (92%)	76 (64%)	29 (24%)	14 (12%)	0 4
11	CN	117/129 (91%)	87 (74%)	21 (18%)	9 (8%)	1 8
12	AO	123/132 (93%)	80 (65%)	22 (18%)	21 (17%)	0 2
12	CO	123/132 (93%)	85 (69%)	24 (20%)	14 (11%)	0 5
13	AP	116/126 (92%)	62 (53%)	23 (20%)	31 (27%)	0 0
13	CP	119/126 (94%)	71 (60%)	27 (23%)	21 (18%)	0 1
14	AQ	58/61 (95%)	37 (64%)	15 (26%)	6 (10%)	0 5
14	CQ	58/61 (95%)	33 (57%)	15 (26%)	10 (17%)	0 2
15	AR	86/89 (97%)	55 (64%)	27 (31%)	4 (5%)	2 17
15	CR	86/89 (97%)	61 (71%)	19 (22%)	6 (7%)	1 10
16	AS	82/88 (93%)	57 (70%)	16 (20%)	9 (11%)	0 5
16	CS	82/88 (93%)	48 (58%)	23 (28%)	11 (13%)	0 3
17	AT	98/105 (93%)	75 (76%)	17 (17%)	6 (6%)	1 12
17	CT	98/105 (93%)	75 (76%)	15 (15%)	8 (8%)	0 8
18	AU	69/88 (78%)	42 (61%)	21 (30%)	6 (9%)	0 7
18	CU	68/88 (77%)	46 (68%)	14 (21%)	8 (12%)	0 4
19	AV	80/93 (86%)	43 (54%)	20 (25%)	17 (21%)	0 1
19	CV	82/93 (88%)	46 (56%)	18 (22%)	18 (22%)	0 1
20	AW	97/106 (92%)	54 (56%)	26 (27%)	17 (18%)	0 2
20	CW	97/106 (92%)	63 (65%)	16 (16%)	18 (19%)	0 1
21	AX	23/27 (85%)	15 (65%)	7 (30%)	1 (4%)	2 18
21	CX	23/27 (85%)	15 (65%)	4 (17%)	4 (17%)	0 2
26	BD	270/276 (98%)	193 (72%)	46 (17%)	31 (12%)	0 5
26	DD	270/276 (98%)	204 (76%)	46 (17%)	20 (7%)	1 9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
27	BE	203/206 (98%)	114 (56%)	46 (23%)	43 (21%)	0 1
27	DE	203/206 (98%)	120 (59%)	41 (20%)	42 (21%)	0 1
28	BF	206/210 (98%)	137 (66%)	45 (22%)	24 (12%)	0 4
28	DF	200/210 (95%)	144 (72%)	36 (18%)	20 (10%)	0 6
29	BG	179/182 (98%)	114 (64%)	39 (22%)	26 (14%)	0 3
29	DG	179/182 (98%)	120 (67%)	38 (21%)	21 (12%)	0 4
30	BH	168/180 (93%)	60 (36%)	54 (32%)	54 (32%)	0 0
30	DH	168/180 (93%)	94 (56%)	36 (21%)	38 (23%)	0 1
31	BK	144/148 (97%)	77 (54%)	45 (31%)	22 (15%)	0 2
31	DK	144/148 (97%)	80 (56%)	36 (25%)	28 (19%)	0 1
32	BM	136/140 (97%)	88 (65%)	29 (21%)	19 (14%)	0 3
32	DM	136/140 (97%)	84 (62%)	30 (22%)	22 (16%)	0 2
33	BN	120/122 (98%)	96 (80%)	17 (14%)	7 (6%)	1 13
33	DN	120/122 (98%)	90 (75%)	21 (18%)	9 (8%)	1 9
34	BO	148/150 (99%)	80 (54%)	32 (22%)	36 (24%)	0 0
34	DO	148/150 (99%)	97 (66%)	19 (13%)	32 (22%)	0 1
35	BP	139/141 (99%)	96 (69%)	24 (17%)	19 (14%)	0 3
35	DP	139/141 (99%)	94 (68%)	30 (22%)	15 (11%)	0 5
36	B0	115/118 (98%)	73 (64%)	31 (27%)	11 (10%)	0 6
36	D0	116/118 (98%)	82 (71%)	20 (17%)	14 (12%)	0 4
37	BQ	109/112 (97%)	58 (53%)	32 (29%)	19 (17%)	0 2
37	DQ	109/112 (97%)	62 (57%)	28 (26%)	19 (17%)	0 2
38	BR	135/146 (92%)	94 (70%)	31 (23%)	10 (7%)	1 9
38	DR	135/146 (92%)	83 (62%)	32 (24%)	20 (15%)	0 2
39	B1	115/118 (98%)	81 (70%)	22 (19%)	12 (10%)	0 5
39	D1	115/118 (98%)	87 (76%)	19 (16%)	9 (8%)	1 8
40	B2	99/101 (98%)	67 (68%)	12 (12%)	20 (20%)	0 1
40	D2	99/101 (98%)	73 (74%)	16 (16%)	10 (10%)	0 6
41	BS	111/113 (98%)	79 (71%)	20 (18%)	12 (11%)	0 5
41	DS	111/113 (98%)	75 (68%)	22 (20%)	14 (13%)	0 4
42	BT	90/96 (94%)	63 (70%)	18 (20%)	9 (10%)	0 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
42	DT	90/96 (94%)	77 (86%)	8 (9%)	5 (6%)	1 13
43	BU	100/110 (91%)	37 (37%)	29 (29%)	34 (34%)	0 0
43	DU	100/110 (91%)	57 (57%)	17 (17%)	26 (26%)	0 0
44	BV	174/206 (84%)	85 (49%)	43 (25%)	46 (26%)	0 0
44	DV	170/206 (82%)	91 (54%)	40 (24%)	39 (23%)	0 1
45	B3	78/85 (92%)	54 (69%)	13 (17%)	11 (14%)	0 3
45	D3	75/85 (88%)	56 (75%)	13 (17%)	6 (8%)	1 8
46	BZ	95/98 (97%)	66 (70%)	17 (18%)	12 (13%)	0 4
46	DZ	95/98 (97%)	64 (67%)	20 (21%)	11 (12%)	0 4
47	BW	67/72 (93%)	43 (64%)	12 (18%)	12 (18%)	0 1
47	DW	67/72 (93%)	46 (69%)	12 (18%)	9 (13%)	0 3
48	BX	57/60 (95%)	51 (90%)	4 (7%)	2 (4%)	3 23
48	DX	57/60 (95%)	45 (79%)	9 (16%)	3 (5%)	1 14
49	B4	69/71 (97%)	33 (48%)	10 (14%)	26 (38%)	0 0
49	D4	69/71 (97%)	23 (33%)	20 (29%)	26 (38%)	0 0
50	B5	57/60 (95%)	37 (65%)	14 (25%)	6 (10%)	0 5
50	D5	57/60 (95%)	33 (58%)	9 (16%)	15 (26%)	0 0
51	B6	46/54 (85%)	9 (20%)	11 (24%)	26 (56%)	0 0
51	D6	47/54 (87%)	15 (32%)	18 (38%)	14 (30%)	0 0
52	B7	47/49 (96%)	36 (77%)	9 (19%)	2 (4%)	2 18
52	D7	47/49 (96%)	37 (79%)	7 (15%)	3 (6%)	1 11
53	B8	62/65 (95%)	37 (60%)	14 (23%)	11 (18%)	0 1
53	D8	62/65 (95%)	36 (58%)	15 (24%)	11 (18%)	0 1
All	All	11381/12054 (94%)	7244 (64%)	2468 (22%)	1669 (15%)	0 3

All (1669) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AE	8	LYS
2	AE	17	PHE
2	AE	20	GLU
2	AE	23	ARG
2	AE	29	ALA
2	AE	33	TYR

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Mol	Chain	Res	Type
2	AE	39	ILE
2	AE	63	MET
2	AE	74	LYS
2	AE	103	THR
2	AE	125	PRO
2	AE	126	GLU
2	AE	127	ILE
2	AE	141	GLU
2	AE	150	SER
2	AE	156	LYS
2	AE	165	VAL
2	AE	191	ASP
2	AE	194	PRO
2	AE	195	ASP
2	AE	216	SER
2	AE	229	VAL
2	AE	230	VAL
2	AE	231	GLU
3	AF	4	LYS
3	AF	5	ILE
3	AF	12	LEU
3	AF	18	TRP
3	AF	24	ALA
3	AF	45	LYS
3	AF	77	ILE
3	AF	78	GLY
3	AF	79	ARG
3	AF	85	ARG
3	AF	94	LEU
3	AF	98	ASN
3	AF	107	GLN
3	AF	162	GLN
3	AF	165	THR
3	AF	205	GLY
4	AG	5	ILE
4	AG	17	VAL
4	AG	20	TYR
4	AG	24	GLU
4	AG	28	SER
4	AG	29	PRO
4	AG	32	ALA
4	AG	33	MET

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Mol	Chain	Res	Type
4	AG	110	PHE
4	AG	123	HIS
4	AG	129	ASN
4	AG	149	ALA
4	AG	150	GLU
4	AG	151	LYS
4	AG	171	GLY
4	AG	189	PRO
5	AH	17	ALA
5	AH	115	VAL
5	AH	146	ALA
6	AI	40	VAL
6	AI	62	TRP
6	AI	82	ARG
7	AJ	6	ARG
7	AJ	17	VAL
7	AJ	79	ARG
7	AJ	80	VAL
7	AJ	150	ALA
7	AJ	155	ARG
8	AK	2	LEU
8	AK	51	VAL
9	AL	21	PRO
9	AL	23	ASN
9	AL	28	VAL
9	AL	35	GLU
9	AL	44	VAL
9	AL	103	THR
9	AL	124	GLN
10	AM	57	LYS
10	AM	58	ASP
11	AN	10	VAL
11	AN	11	LYS
11	AN	12	ARG
11	AN	14	VAL
11	AN	16	SER
11	AN	89	ALA
11	AN	123	LYS
12	AO	13	LYS
12	AO	30	ALA
12	AO	47	LYS
12	AO	126	LYS

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Mol	Chain	Res	Type
12	AO	127	GLU
13	AP	4	ILE
13	AP	9	ILE
13	AP	10	PRO
13	AP	14	ARG
13	AP	44	ARG
13	AP	45	VAL
13	AP	47	ASP
13	AP	83	ASP
13	AP	100	GLY
14	AQ	15	LYS
14	AQ	16	PHE
15	AR	24	SER
16	AS	64	ALA
17	AT	69	LYS
18	AU	19	LYS
18	AU	22	VAL
19	AV	9	VAL
19	AV	27	GLU
19	AV	29	ARG
19	AV	33	THR
19	AV	37	ARG
19	AV	43	GLU
19	AV	45	VAL
19	AV	67	VAL
19	AV	70	LYS
20	AW	49	ALA
20	AW	95	ALA
20	AW	97	ALA
26	BD	3	VAL
26	BD	28	GLU
26	BD	58	HIS
26	BD	123	ALA
26	BD	196	VAL
26	BD	237	GLU
26	BD	263	ARG
26	BD	267	SER
27	BE	2	LYS
27	BE	25	VAL
27	BE	59	VAL
27	BE	61	ARG
27	BE	77	ILE

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Mol	Chain	Res	Type
27	BE	78	LEU
27	BE	88	GLY
27	BE	118	LYS
27	BE	132	HIS
27	BE	204	ALA
28	BF	11	VAL
28	BF	17	ARG
28	BF	21	ALA
28	BF	25	PRO
28	BF	62	ARG
28	BF	86	GLY
28	BF	89	VAL
28	BF	128	ALA
28	BF	132	VAL
29	BG	5	VAL
29	BG	14	GLU
29	BG	22	ARG
29	BG	36	LYS
29	BG	76	SER
29	BG	97	ASP
29	BG	124	SER
29	BG	136	ARG
29	BG	176	LEU
30	BH	9	ILE
30	BH	10	PRO
30	BH	11	VAL
30	BH	13	LYS
30	BH	15	VAL
30	BH	21	PRO
30	BH	27	LYS
30	BH	31	GLY
30	BH	39	PRO
30	BH	46	GLU
30	BH	47	GLU
30	BH	49	VAL
30	BH	50	VAL
30	BH	76	VAL
30	BH	84	SER
30	BH	86	GLU
30	BH	87	LEU
30	BH	92	ILE
30	BH	109	PHE

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Mol	Chain	Res	Type
30	BH	111	HIS
30	BH	112	PRO
30	BH	125	VAL
30	BH	126	PRO
30	BH	128	PRO
30	BH	129	THR
30	BH	130	ARG
30	BH	131	VAL
30	BH	152	ARG
30	BH	153	LYS
30	BH	156	ALA
30	BH	167	GLU
30	BH	168	PRO
31	BK	77	LEU
31	BK	101	LEU
31	BK	102	SER
31	BK	120	ILE
31	BK	132	PRO
31	BK	144	VAL
31	BK	145	VAL
32	BM	17	ASP
32	BM	18	ALA
32	BM	63	THR
32	BM	64	GLY
32	BM	130	HIS
32	BM	131	GLN
32	BM	133	GLN
33	BN	48	PRO
33	BN	68	GLU
34	BO	10	PRO
34	BO	12	ALA
34	BO	15	ARG
34	BO	21	ARG
34	BO	25	SER
34	BO	27	HIS
34	BO	36	LYS
34	BO	38	GLN
34	BO	57	THR
34	BO	63	PRO
34	BO	67	MET
34	BO	108	LYS
34	BO	110	TYR

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Mol	Chain	Res	Type
34	BO	111	ARG
34	BO	147	LEU
35	BP	59	ARG
35	BP	64	ILE
35	BP	79	LEU
35	BP	90	VAL
35	BP	135	ASP
35	BP	136	ALA
36	B0	10	LEU
36	B0	107	ASP
37	BQ	57	LYS
37	BQ	61	ASN
37	BQ	88	ASP
37	BQ	89	ARG
37	BQ	107	GLU
37	BQ	110	LEU
38	BR	107	ASP
39	B1	9	VAL
39	B1	90	VAL
39	B1	93	LYS
39	B1	98	LEU
40	B2	31	ALA
40	B2	44	LYS
40	B2	45	THR
40	B2	49	THR
40	B2	55	ALA
40	B2	72	VAL
40	B2	80	GLN
40	B2	84	LYS
40	B2	85	LYS
40	B2	87	HIS
40	B2	98	GLU
41	BS	11	ARG
41	BS	58	ALA
41	BS	63	ASP
41	BS	80	PRO
42	BT	60	ARG
42	BT	61	GLY
42	BT	68	ARG
42	BT	70	LEU
43	BU	17	SER
43	BU	21	LYS

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Mol	Chain	Res	Type
43	BU	29	GLU
43	BU	43	ASN
43	BU	49	VAL
43	BU	50	ARG
43	BU	63	LYS
43	BU	72	VAL
43	BU	73	ARG
43	BU	77	PRO
43	BU	78	ALA
43	BU	89	PHE
43	BU	96	ILE
43	BU	99	CYS
43	BU	102	CYS
44	BV	10	ARG
44	BV	13	GLU
44	BV	51	ALA
44	BV	60	GLU
44	BV	94	GLU
44	BV	95	PRO
44	BV	107	THR
44	BV	111	VAL
44	BV	112	ARG
44	BV	120	ILE
44	BV	128	VAL
44	BV	134	PRO
44	BV	136	PHE
44	BV	141	VAL
44	BV	150	LEU
44	BV	151	HIS
44	BV	152	ALA
44	BV	157	LEU
44	BV	158	PRO
44	BV	159	PRO
44	BV	161	VAL
44	BV	165	VAL
44	BV	172	ALA
45	B3	9	SER
45	B3	10	THR
45	B3	17	GLN
45	B3	47	PRO
45	B3	49	LYS
45	B3	83	PRO

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Mol	Chain	Res	Type
46	BZ	54	ALA
46	BZ	78	LYS
46	BZ	96	LYS
47	BW	16	LEU
47	BW	17	SER
47	BW	43	GLN
47	BW	44	LEU
47	BW	47	ASN
47	BW	48	HIS
47	BW	50	ILE
47	BW	71	ASN
49	B4	5	ILE
49	B4	6	HIS
49	B4	10	VAL
49	B4	21	VAL
49	B4	34	GLU
49	B4	39	CYS
49	B4	40	HIS
49	B4	42	PHE
49	B4	44	THR
49	B4	48	ARG
49	B4	51	ASP
49	B4	52	THR
49	B4	53	GLU
50	B5	4	HIS
50	B5	53	ALA
50	B5	55	ARG
51	B6	7	ILE
51	B6	18	ARG
51	B6	20	ASN
51	B6	22	ALA
51	B6	25	LYS
51	B6	27	LYS
51	B6	31	PRO
51	B6	35	GLU
51	B6	40	CYS
51	B6	42	TRP
51	B6	44	ARG
51	B6	45	LYS
53	B8	32	LEU
53	B8	41	ILE
53	B8	51	ALA

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Mol	Chain	Res	Type
2	CE	6	THR
2	CE	15	VAL
2	CE	26	PRO
2	CE	84	GLU
2	CE	88	ALA
2	CE	126	GLU
2	CE	230	VAL
2	CE	233	SER
3	CF	4	LYS
3	CF	12	LEU
3	CF	14	ILE
3	CF	29	TYR
3	CF	61	ALA
3	CF	189	ALA
3	CF	190	ARG
4	CG	28	SER
4	CG	30	LYS
4	CG	51	PRO
4	CG	89	THR
4	CG	129	ASN
4	CG	154	ASN
4	CG	155	LEU
4	CG	178	VAL
5	CH	146	ALA
7	CJ	5	ARG
7	CJ	7	ALA
8	CK	50	ARG
8	CK	129	VAL
9	CL	23	ASN
9	CL	56	LEU
9	CL	95	LYS
9	CL	111	ARG
9	CL	117	HIS
10	CM	30	SER
10	CM	33	GLN
11	CN	91	ARG
12	CO	18	VAL
12	CO	27	LEU
12	CO	48	PRO
12	CO	62	SER
12	CO	121	GLY
13	CP	67	GLU

Continued on next page...

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Mol	Chain	Res	Type
13	CP	70	LEU
13	CP	83	ASP
13	CP	106	ASN
13	CP	108	ARG
13	CP	118	ALA
14	CQ	3	ARG
14	CQ	16	PHE
14	CQ	23	ARG
15	CR	88	ARG
16	CS	44	THR
16	CS	67	THR
17	CT	34	LYS
17	CT	49	GLU
18	CU	22	VAL
19	CV	3	ARG
19	CV	12	ASP
19	CV	14	HIS
19	CV	25	LYS
19	CV	26	GLY
19	CV	31	ILE
19	CV	41	VAL
19	CV	70	LYS
19	CV	78	ARG
19	CV	79	THR
20	CW	48	LYS
20	CW	49	ALA
20	CW	74	LYS
20	CW	95	ALA
20	CW	96	GLY
20	CW	100	ILE
21	CX	7	ARG
21	CX	9	ARG
21	CX	22	ARG
26	DD	26	LYS
26	DD	28	GLU
26	DD	123	ALA
26	DD	231	HIS
27	DE	4	ILE
27	DE	7	VAL
27	DE	9	VAL
27	DE	22	PRO
27	DE	54	GLN

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Mol	Chain	Res	Type
27	DE	57	LYS
27	DE	60	ASN
27	DE	63	LEU
27	DE	64	LYS
27	DE	68	ALA
27	DE	70	ALA
27	DE	73	GLU
27	DE	90	THR
27	DE	92	THR
27	DE	93	VAL
27	DE	169	ASN
27	DE	187	ALA
27	DE	189	PRO
28	DF	25	PRO
28	DF	66	PRO
28	DF	68	LYS
28	DF	73	ALA
28	DF	89	VAL
28	DF	128	ALA
28	DF	176	LEU
29	DG	4	ASP
29	DG	14	GLU
29	DG	79	ASN
29	DG	86	MET
30	DH	10	PRO
30	DH	12	PRO
30	DH	83	TYR
30	DH	85	LYS
30	DH	86	GLU
30	DH	87	LEU
30	DH	90	LYS
30	DH	92	ILE
30	DH	126	PRO
30	DH	127	GLU
30	DH	128	PRO
30	DH	137	ASP
30	DH	138	LYS
30	DH	153	LYS
30	DH	154	PRO
30	DH	155	SER
30	DH	169	VAL
31	DK	9	LEU

Continued on next page...

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Mol	Chain	Res	Type
31	DK	10	GLU
31	DK	13	GLY
31	DK	15	VAL
31	DK	66	GLU
31	DK	115	ALA
31	DK	133	HIS
31	DK	145	VAL
32	DM	6	PRO
32	DM	9	VAL
32	DM	22	THR
32	DM	36	GLY
32	DM	58	ASP
32	DM	95	PRO
32	DM	97	ARG
32	DM	119	ARG
32	DM	131	GLN
32	DM	133	GLN
32	DM	134	ARG
33	DN	49	ARG
34	DO	5	ASP
34	DO	10	PRO
34	DO	15	ARG
34	DO	19	VAL
34	DO	21	ARG
34	DO	25	SER
34	DO	27	HIS
34	DO	36	LYS
34	DO	38	GLN
34	DO	42	SER
34	DO	65	ARG
34	DO	95	VAL
34	DO	106	LEU
34	DO	107	LYS
34	DO	141	ALA
34	DO	148	LEU
35	DP	6	ARG
35	DP	18	LYS
35	DP	22	LYS
35	DP	27	VAL
35	DP	81	VAL
35	DP	90	VAL
35	DP	134	ARG

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Mol	Chain	Res	Type
36	D0	2	ARG
36	D0	3	HIS
36	D0	4	LEU
36	D0	14	SER
36	D0	58	GLY
36	D0	86	ARG
36	D0	117	VAL
37	DQ	4	LEU
37	DQ	12	PHE
37	DQ	14	VAL
37	DQ	23	ARG
37	DQ	56	LEU
37	DQ	57	LYS
37	DQ	88	ASP
37	DQ	89	ARG
37	DQ	90	GLY
37	DQ	107	GLU
38	DR	2	ASN
38	DR	3	ARG
38	DR	39	ARG
38	DR	55	ASN
38	DR	58	ASN
38	DR	90	GLN
38	DR	94	ALA
38	DR	97	ALA
38	DR	106	SER
38	DR	107	ASP
40	D2	28	GLU
40	D2	31	ALA
40	D2	45	THR
40	D2	48	GLY
40	D2	49	THR
40	D2	50	PRO
40	D2	53	GLU
40	D2	79	VAL
41	DS	59	VAL
41	DS	67	ASP
41	DS	75	TYR
41	DS	111	HIS
42	DT	36	LYS
43	DU	3	VAL
43	DU	23	ARG

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Mol	Chain	Res	Type
43	DU	48	ALA
43	DU	49	VAL
43	DU	50	ARG
43	DU	58	GLY
43	DU	63	LYS
43	DU	77	PRO
43	DU	78	ALA
43	DU	96	ILE
44	DV	6	LYS
44	DV	13	GLU
44	DV	31	ARG
44	DV	51	ALA
44	DV	111	VAL
44	DV	112	ARG
44	DV	114	GLY
44	DV	116	VAL
44	DV	122	ARG
44	DV	141	VAL
44	DV	151	HIS
44	DV	155	LEU
44	DV	156	LYS
44	DV	158	PRO
44	DV	170	THR
44	DV	171	ILE
45	D3	10	THR
46	DZ	30	VAL
46	DZ	54	ALA
46	DZ	81	LYS
46	DZ	82	LEU
46	DZ	95	LEU
47	DW	16	LEU
47	DW	43	GLN
47	DW	47	ASN
47	DW	48	HIS
47	DW	71	ASN
48	DX	3	ARG
49	D4	5	ILE
49	D4	14	ILE
49	D4	16	CYS
49	D4	22	ILE
49	D4	23	GLU
49	D4	36	CYS

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Mol	Chain	Res	Type
49	D4	37	SER
49	D4	40	HIS
49	D4	42	PHE
49	D4	43	TYR
49	D4	49	PHE
49	D4	50	VAL
49	D4	51	ASP
49	D4	53	GLU
49	D4	62	ARG
49	D4	66	SER
49	D4	68	ARG
50	D5	3	LYS
50	D5	4	HIS
50	D5	35	GLU
50	D5	51	TYR
50	D5	53	ALA
51	D6	7	ILE
51	D6	14	THR
51	D6	15	GLU
51	D6	19	ARG
51	D6	21	TYR
51	D6	33	LYS
51	D6	45	LYS
51	D6	48	VAL
53	D8	29	LYS
53	D8	31	HIS
53	D8	34	TRP
53	D8	52	LYS
53	D8	62	LEU
2	AE	15	VAL
2	AE	32	ILE
2	AE	75	LYS
2	AE	96	ARG
2	AE	97	TRP
2	AE	102	LEU
2	AE	131	PRO
2	AE	132	LYS
2	AE	178	ARG
2	AE	217	ARG
2	AE	234	PRO
2	AE	239	VAL
3	AF	13	GLY

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Mol	Chain	Res	Type
3	AF	64	VAL
3	AF	84	ILE
3	AF	129	ALA
3	AF	158	GLY
3	AF	161	GLU
3	AF	206	GLU
4	AG	4	TYR
4	AG	16	GLY
4	AG	34	GLU
4	AG	40	PRO
4	AG	41	GLY
5	AH	4	THR
5	AH	19	MET
5	AH	112	LEU
6	AI	81	ILE
7	AJ	3	ARG
7	AJ	4	ARG
7	AJ	7	ALA
7	AJ	51	GLN
7	AJ	97	GLN
7	AJ	149	ARG
8	AK	54	ASP
8	AK	98	LYS
9	AL	19	LEU
9	AL	24	GLY
9	AL	29	ASN
9	AL	30	GLY
9	AL	34	ASN
9	AL	101	PHE
9	AL	118	LYS
10	AM	32	ALA
10	AM	36	GLY
10	AM	51	ARG
10	AM	59	SER
10	AM	68	HIS
10	AM	75	ILE
11	AN	127	LYS
12	AO	18	VAL
12	AO	19	ARG
12	AO	23	LYS
12	AO	80	HIS
13	AP	3	ARG

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Mol	Chain	Res	Type
13	AP	12	ASN
13	AP	13	LYS
13	AP	21	TYR
13	AP	68	GLY
13	AP	69	GLU
13	AP	82	MET
13	AP	84	ILE
13	AP	85	GLY
13	AP	86	CYS
14	AQ	14	PRO
15	AR	86	GLY
16	AS	43	LYS
16	AS	53	VAL
16	AS	63	GLY
16	AS	67	THR
17	AT	33	GLY
17	AT	99	SER
18	AU	77	GLY
19	AV	84	GLY
20	AW	50	GLU
20	AW	102	GLY
21	AX	3	LYS
26	BD	12	SER
26	BD	25	THR
26	BD	27	THR
26	BD	48	ARG
26	BD	127	VAL
26	BD	144	ALA
26	BD	157	ARG
26	BD	224	ALA
27	BE	27	LEU
27	BE	29	GLY
27	BE	33	VAL
27	BE	34	VAL
27	BE	60	ASN
27	BE	66	HIS
27	BE	71	GLY
27	BE	92	THR
27	BE	129	HIS
28	BF	2	LYS
28	BF	67	GLN
28	BF	84	VAL

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Mol	Chain	Res	Type
28	BF	95	ARG
29	BG	30	GLU
29	BG	47	LYS
29	BG	82	LEU
29	BG	113	ARG
29	BG	159	VAL
30	BH	45	VAL
30	BH	55	PRO
30	BH	137	ASP
30	BH	151	ILE
30	BH	169	VAL
31	BK	11	ASN
31	BK	73	GLU
31	BK	113	ARG
31	BK	142	VAL
32	BM	50	ASP
32	BM	98	VAL
33	BN	27	GLY
34	BO	6	LEU
34	BO	16	ARG
34	BO	19	VAL
34	BO	43	GLY
34	BO	60	MET
34	BO	83	VAL
34	BO	103	ALA
34	BO	141	ALA
34	BO	146	VAL
35	BP	15	GLY
35	BP	60	ARG
35	BP	111	GLU
35	BP	134	ARG
36	B0	11	ASN
36	B0	58	GLY
36	B0	82	GLU
36	B0	93	GLY
36	B0	102	GLU
37	BQ	4	LEU
37	BQ	7	TYR
37	BQ	8	GLU
37	BQ	23	ARG
37	BQ	96	GLY
37	BQ	97	ARG

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Mol	Chain	Res	Type
38	BR	9	LEU
38	BR	24	PRO
38	BR	118	ARG
38	BR	125	ARG
39	B1	86	ALA
39	B1	91	ASP
39	B1	109	LEU
40	B2	47	VAL
40	B2	79	VAL
41	BS	109	GLU
43	BU	3	VAL
43	BU	22	GLY
43	BU	44	ILE
43	BU	53	PRO
43	BU	62	GLU
43	BU	80	GLY
43	BU	85	VAL
43	BU	101	LYS
44	BV	9	TYR
44	BV	31	ARG
44	BV	39	VAL
44	BV	53	ILE
44	BV	59	LEU
44	BV	66	SER
44	BV	102	LEU
44	BV	104	PHE
44	BV	169	GLU
45	B3	19	LYS
45	B3	55	ARG
46	BZ	28	GLY
46	BZ	30	VAL
46	BZ	55	GLY
46	BZ	81	LYS
46	BZ	84	GLY
46	BZ	92	LYS
46	BZ	97	LEU
49	B4	11	PRO
49	B4	23	GLU
49	B4	26	SER
49	B4	46	GLN
49	B4	50	VAL
49	B4	67	TYR

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Mol	Chain	Res	Type
50	B5	38	ALA
50	B5	42	PRO
51	B6	12	GLU
51	B6	15	GLU
51	B6	23	THR
51	B6	34	LEU
51	B6	51	GLU
53	B8	34	TRP
53	B8	50	LEU
2	CE	18	GLY
2	CE	65	GLY
2	CE	208	ILE
2	CE	216	SER
2	CE	237	ALA
3	CF	60	ALA
3	CF	79	ARG
3	CF	129	ALA
3	CF	145	GLY
4	CG	7	PRO
4	CG	20	TYR
4	CG	32	ALA
4	CG	164	ALA
4	CG	170	VAL
4	CG	179	GLU
4	CG	181	MET
4	CG	200	GLU
5	CH	21	ALA
5	CH	63	ARG
5	CH	108	ALA
6	CI	70	ASP
7	CJ	4	ARG
7	CJ	63	LYS
7	CJ	141	VAL
8	CK	68	ARG
8	CK	69	ARG
8	CK	76	PRO
8	CK	122	ARG
9	CL	31	GLN
9	CL	41	VAL
9	CL	100	GLY
9	CL	109	VAL
10	CM	36	GLY

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Mol	Chain	Res	Type
10	CM	68	HIS
11	CN	103	LEU
11	CN	107	SER
11	CN	124	LYS
11	CN	125	PHE
11	CN	126	ARG
12	CO	65	GLU
12	CO	110	VAL
12	CO	115	LYS
12	CO	116	SER
12	CO	128	ALA
13	CP	49	THR
13	CP	68	GLY
13	CP	120	LYS
14	CQ	14	PRO
14	CQ	15	LYS
15	CR	77	ARG
16	CS	49	LEU
17	CT	14	LYS
17	CT	33	GLY
17	CT	78	GLU
17	CT	100	LYS
18	CU	27	GLY
18	CU	54	ARG
18	CU	64	ARG
18	CU	65	ILE
19	CV	13	ASP
19	CV	45	VAL
20	CW	11	SER
20	CW	28	ALA
20	CW	62	LEU
20	CW	99	LEU
20	CW	102	GLY
20	CW	103	GLY
21	CX	3	LYS
26	DD	3	VAL
26	DD	32	SER
26	DD	58	HIS
26	DD	122	ASP
26	DD	169	GLU
27	DE	8	LYS
27	DE	20	ALA

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Mol	Chain	Res	Type
27	DE	37	ARG
27	DE	53	PRO
27	DE	61	ARG
27	DE	71	GLY
27	DE	78	LEU
27	DE	88	GLY
27	DE	186	GLY
27	DE	190	GLY
27	DE	204	ALA
28	DF	18	ARG
28	DF	107	LYS
28	DF	108	LYS
28	DF	111	ALA
28	DF	132	VAL
28	DF	134	GLY
28	DF	168	ARG
29	DG	36	LYS
29	DG	81	LYS
29	DG	82	LEU
29	DG	96	ARG
29	DG	110	ALA
29	DG	126	ASP
29	DG	136	ARG
30	DH	3	ARG
30	DH	8	PRO
30	DH	55	PRO
30	DH	59	ARG
30	DH	84	SER
30	DH	151	ILE
30	DH	156	ALA
30	DH	168	PRO
31	DK	12	LEU
31	DK	36	ALA
31	DK	72	LEU
31	DK	135	GLU
32	DM	23	LEU
32	DM	76	SER
33	DN	51	ALA
33	DN	56	ASP
33	DN	68	GLU
34	DO	6	LEU
34	DO	11	GLY

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Mol	Chain	Res	Type
34	DO	12	ALA
34	DO	16	ARG
35	DP	13	GLN
35	DP	24	GLY
35	DP	28	ALA
35	DP	57	HIS
35	DP	59	ARG
36	D0	11	ASN
37	DQ	87	PHE
37	DQ	96	GLY
37	DQ	100	ALA
37	DQ	109	GLY
37	DQ	111	GLU
38	DR	4	GLY
38	DR	36	GLU
38	DR	43	GLN
38	DR	67	SER
38	DR	124	ASP
39	D1	9	VAL
39	D1	28	ARG
39	D1	73	GLY
39	D1	90	VAL
41	DS	63	ASP
41	DS	66	GLU
42	DT	67	GLY
43	DU	4	LYS
43	DU	41	GLY
43	DU	53	PRO
43	DU	56	PRO
43	DU	57	GLN
43	DU	99	CYS
44	DV	38	TYR
44	DV	79	ARG
44	DV	80	ARG
44	DV	110	GLY
44	DV	124	ILE
44	DV	153	SER
44	DV	159	PRO
45	D3	18	ALA
45	D3	55	ARG
46	DZ	45	ASN
46	DZ	55	GLY

Continued on next page...

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Mol	Chain	Res	Type
46	DZ	84	GLY
47	DW	24	LEU
47	DW	44	LEU
47	DW	70	GLN
49	D4	9	LEU
49	D4	24	THR
50	D5	43	HIS
50	D5	55	ARG
52	D7	39	ARG
2	AE	13	ALA
2	AE	45	GLN
2	AE	101	MET
2	AE	154	LEU
2	AE	226	ARG
3	AF	66	VAL
3	AF	76	VAL
3	AF	88	ARG
3	AF	121	ALA
3	AF	160	ALA
3	AF	174	PRO
4	AG	3	ARG
4	AG	53	ASP
4	AG	83	SER
4	AG	156	GLU
5	AH	3	GLU
5	AH	7	GLU
5	AH	108	ALA
6	AI	53	ALA
7	AJ	111	ARG
8	AK	41	ARG
8	AK	53	VAL
8	AK	134	ILE
9	AL	4	TYR
9	AL	41	VAL
9	AL	43	ALA
9	AL	121	ARG
12	AO	45	PRO
12	AO	79	GLU
12	AO	91	LYS
12	AO	92	ASP
12	AO	128	ALA
13	AP	5	ALA

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Mol	Chain	Res	Type
13	AP	29	ARG
13	AP	46	LYS
13	AP	64	TRP
13	AP	99	ARG
16	AS	59	TRP
16	AS	76	GLN
17	AT	74	LEU
17	AT	81	ARG
17	AT	94	ASN
18	AU	23	LYS
19	AV	64	GLU
19	AV	72	GLY
19	AV	80	TYR
20	AW	73	HIS
20	AW	98	PRO
26	BD	46	GLN
26	BD	52	ARG
26	BD	156	ALA
26	BD	159	ALA
26	BD	195	ALA
26	BD	201	HIS
26	BD	226	MET
27	BE	9	VAL
27	BE	17	ASP
27	BE	32	PRO
27	BE	82	ARG
27	BE	117	MET
27	BE	122	PHE
27	BE	131	ALA
27	BE	135	HIS
27	BE	187	ALA
28	BF	22	ALA
28	BF	90	PHE
28	BF	129	PHE
28	BF	136	THR
29	BG	4	ASP
29	BG	110	ALA
29	BG	147	ASP
30	BH	12	PRO
30	BH	32	GLU
30	BH	69	ARG
30	BH	90	LYS

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Mol	Chain	Res	Type
30	BH	117	PRO
30	BH	155	SER
31	BK	60	GLU
31	BK	78	THR
31	BK	100	ALA
31	BK	112	LYS
31	BK	119	PRO
31	BK	143	SER
32	BM	8	GLN
32	BM	46	VAL
32	BM	70	LYS
32	BM	108	PRO
32	BM	127	ASP
33	BN	14	THR
34	BO	5	ASP
34	BO	29	LYS
34	BO	47	ASP
34	BO	59	LEU
34	BO	98	GLU
35	BP	62	GLY
35	BP	81	VAL
35	BP	130	LYS
36	B0	17	ARG
37	BQ	20	ARG
37	BQ	35	ILE
38	BR	58	ASN
38	BR	130	ALA
40	B2	36	PRO
41	BS	27	LYS
41	BS	28	SER
41	BS	93	ALA
42	BT	42	ALA
43	BU	52	SER
43	BU	59	GLY
44	BV	7	ALA
44	BV	43	GLU
44	BV	45	ASP
44	BV	63	ASP
44	BV	109	ALA
44	BV	146	ILE
44	BV	163	LEU
45	B3	18	ALA

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Mol	Chain	Res	Type
45	B3	84	LEU
46	BZ	93	GLU
47	BW	8	LYS
49	B4	22	ILE
51	B6	11	LEU
51	B6	19	ARG
51	B6	43	CYS
53	B8	21	LYS
53	B8	30	ARG
53	B8	35	GLN
53	B8	49	VAL
2	CE	155	LEU
2	CE	159	PRO
2	CE	175	ARG
3	CF	16	ARG
3	CF	45	LYS
3	CF	81	GLY
4	CG	29	PRO
4	CG	73	ARG
4	CG	136	PRO
5	CH	37	ARG
6	CI	41	GLU
6	CI	87	ARG
7	CJ	35	LYS
7	CJ	62	PHE
7	CJ	149	ARG
8	CK	2	LEU
8	CK	128	GLY
9	CL	12	GLU
9	CL	13	ALA
10	CM	57	LYS
12	CO	51	ALA
12	CO	123	LYS
13	CP	12	ASN
13	CP	101	GLN
13	CP	121	LYS
14	CQ	9	LYS
14	CQ	41	ARG
15	CR	14	GLU
15	CR	23	GLY
16	CS	8	ARG
16	CS	83	GLU

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Mol	Chain	Res	Type
17	CT	30	PRO
17	CT	99	SER
18	CU	55	ARG
19	CV	6	LYS
19	CV	27	GLU
20	CW	82	SER
20	CW	98	PRO
26	DD	111	LEU
26	DD	238	GLY
26	DD	242	ARG
26	DD	262	ARG
27	DE	62	PRO
27	DE	69	LYS
27	DE	82	ARG
27	DE	117	MET
27	DE	130	GLY
27	DE	132	HIS
29	DG	5	VAL
29	DG	115	ARG
29	DG	128	ARG
29	DG	174	GLU
30	DH	50	VAL
30	DH	81	GLU
30	DH	152	ARG
31	DK	11	ASN
31	DK	86	THR
31	DK	87	LYS
31	DK	118	LYS
32	DM	45	ASN
32	DM	130	HIS
32	DM	135	PRO
34	DO	7	ARG
34	DO	14	LYS
34	DO	43	GLY
34	DO	89	ALA
34	DO	102	ARG
34	DO	115	LEU
35	DP	88	GLY
35	DP	91	GLU
36	D0	42	LYS
36	D0	45	ARG
36	D0	71	GLN

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Mol	Chain	Res	Type
36	D0	107	ASP
37	DQ	19	LYS
37	DQ	61	ASN
37	DQ	74	ALA
37	DQ	75	GLU
38	DR	78	LEU
38	DR	112	ARG
39	D1	46	ALA
39	D1	58	ARG
39	D1	93	LYS
40	D2	54	GLY
41	DS	68	ARG
41	DS	93	ALA
42	DT	48	LYS
42	DT	87	GLN
43	DU	21	LYS
43	DU	39	VAL
43	DU	42	VAL
43	DU	69	ALA
43	DU	91	GLU
43	DU	102	CYS
44	DV	30	ASN
44	DV	61	LEU
44	DV	64	GLY
44	DV	81	ARG
44	DV	92	SER
44	DV	118	GLN
44	DV	135	GLU
44	DV	163	LEU
45	D3	15	ASP
45	D3	57	PHE
45	D3	75	LEU
46	DZ	74	VAL
46	DZ	91	LYS
46	DZ	93	GLU
49	D4	27	THR
49	D4	46	GLN
51	D6	18	ARG
52	D7	32	LYS
53	D8	46	ARG
53	D8	47	LYS
2	AE	53	ARG

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Mol	Chain	Res	Type
2	AE	88	ALA
2	AE	133	LYS
2	AE	134	GLU
2	AE	207	ALA
3	AF	15	THR
3	AF	16	ARG
3	AF	82	GLU
3	AF	83	ARG
3	AF	130	VAL
3	AF	179	ARG
4	AG	108	LEU
4	AG	168	ARG
8	AK	20	TYR
10	AM	93	GLY
11	AN	48	ILE
11	AN	90	GLY
12	AO	17	LYS
12	AO	51	ALA
13	AP	18	ALA
13	AP	49	THR
14	AQ	13	THR
14	AQ	29	ARG
15	AR	21	ASP
16	AS	15	PRO
20	AW	68	LYS
20	AW	74	LYS
20	AW	83	ARG
20	AW	88	VAL
20	AW	101	GLY
26	BD	33	LEU
26	BD	257	LEU
27	BE	46	ALA
27	BE	47	VAL
27	BE	49	LEU
27	BE	57	LYS
27	BE	64	LYS
27	BE	124	GLY
28	BF	23	ASP
28	BF	43	LYS
29	BG	111	LEU
29	BG	175	LEU
30	BH	7	LEU

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Mol	Chain	Res	Type
30	BH	19	VAL
30	BH	77	LYS
30	BH	99	VAL
31	BK	53	ALA
31	BK	74	ASN
31	BK	83	ALA
31	BK	131	LYS
32	BM	23	LEU
32	BM	111	PRO
33	BN	5	GLN
33	BN	54	GLU
34	BO	62	LEU
34	BO	69	GLY
34	BO	144	GLU
35	BP	89	ASN
36	B0	14	SER
36	B0	86	ARG
37	BQ	66	ALA
37	BQ	87	PHE
38	BR	4	GLY
38	BR	86	ILE
39	B1	99	ALA
40	B2	37	VAL
40	B2	61	VAL
43	BU	56	PRO
43	BU	61	ILE
43	BU	82	PRO
43	BU	100	ALA
44	BV	73	GLN
44	BV	96	VAL
46	BZ	31	GLY
47	BW	10	LEU
48	BX	16	PRO
49	B4	12	ALA
49	B4	13	ARG
49	B4	25	TYR
49	B4	38	LYS
49	B4	43	TYR
49	B4	47	GLN
51	B6	16	CYS
51	B6	49	HIS
2	CE	19	HIS

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Mol	Chain	Res	Type
2	CE	131	PRO
2	CE	160	ASP
2	CE	177	ALA
3	CF	168	ALA
4	CG	151	LYS
5	CH	70	PRO
5	CH	72	GLN
5	CH	124	GLY
6	CI	13	ASN
6	CI	40	VAL
6	CI	42	GLU
7	CJ	41	ARG
7	CJ	109	ASN
7	CJ	116	ALA
7	CJ	117	ALA
8	CK	27	PRO
8	CK	49	GLU
10	CM	93	GLY
12	CO	64	TYR
13	CP	4	ILE
13	CP	14	ARG
13	CP	69	GLU
13	CP	77	ASN
14	CQ	44	LEU
14	CQ	48	ALA
15	CR	86	GLY
16	CS	26	ARG
16	CS	28	ARG
16	CS	48	TRP
19	CV	28	LYS
19	CV	44	MET
19	CV	64	GLU
20	CW	40	ALA
20	CW	51	GLU
26	DD	12	SER
26	DD	73	VAL
27	DE	66	HIS
27	DE	126	PRO
28	DF	43	LYS
28	DF	130	ALA
28	DF	145	GLU
29	DG	12	TYR

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Mol	Chain	Res	Type
29	DG	117	PHE
29	DG	146	TYR
30	DH	13	LYS
30	DH	109	PHE
30	DH	159	GLU
31	DK	40	THR
31	DK	110	ASP
31	DK	113	ARG
31	DK	117	GLU
31	DK	122	GLU
32	DM	96	GLU
32	DM	127	ASP
32	DM	132	ALA
33	DN	17	ARG
33	DN	97	ARG
34	DO	29	LYS
34	DO	47	ASP
34	DO	139	LYS
38	DR	37	GLY
38	DR	95	ARG
39	D1	74	LEU
41	DS	14	PRO
41	DS	48	ALA
44	DV	144	LEU
49	D4	8	LYS
50	D5	14	ALA
50	D5	37	LYS
50	D5	45	VAL
50	D5	48	GLU
51	D6	8	LYS
51	D6	9	LEU
51	D6	10	LEU
51	D6	49	HIS
53	D8	25	MET
53	D8	53	PRO
2	AE	87	ARG
2	AE	202	PRO
2	AE	204	ASN
2	AE	235	SER
4	AG	35	ARG
4	AG	39	PRO
4	AG	93	PHE

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Mol	Chain	Res	Type
4	AG	159	ARG
5	AH	21	ALA
5	AH	59	GLY
5	AH	128	PRO
7	AJ	39	ALA
9	AL	94	ALA
11	AN	35	PRO
11	AN	113	PRO
12	AO	12	ARG
12	AO	83	VAL
13	AP	20	THR
13	AP	51	ALA
13	AP	106	ASN
13	AP	116	THR
14	AQ	36	PHE
15	AR	87	ILE
16	AS	16	HIS
18	AU	39	VAL
18	AU	76	LEU
19	AV	38	SER
19	AV	46	GLY
19	AV	47	HIS
20	AW	75	ASN
20	AW	82	SER
26	BD	170	GLY
27	BE	4	ILE
27	BE	45	THR
27	BE	55	ASN
27	BE	73	GLU
27	BE	189	PRO
28	BF	3	GLU
28	BF	9	ILE
28	BF	133	ASN
29	BG	24	GLY
29	BG	32	PRO
30	BH	60	ARG
30	BH	118	PRO
30	BH	160	LYS
30	BH	162	ILE
32	BM	128	HIS
34	BO	2	LYS
34	BO	7	ARG

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Mol	Chain	Res	Type
34	BO	122	PRO
35	BP	7	MET
35	BP	44	ALA
35	BP	83	MET
36	B0	4	LEU
39	B1	92	ARG
40	B2	29	PRO
40	B2	99	ILE
41	BS	45	TYR
41	BS	65	LEU
42	BT	36	LYS
42	BT	51	VAL
42	BT	67	GLY
43	BU	11	ASP
43	BU	74	PRO
44	BV	2	GLU
44	BV	138	GLU
44	BV	160	GLY
50	B5	36	CYS
51	B6	41	PRO
52	B7	48	LYS
53	B8	61	LEU
2	CE	23	ARG
2	CE	98	LEU
2	CE	129	GLU
2	CE	194	PRO
2	CE	229	VAL
2	CE	231	GLU
3	CF	125	GLU
5	CH	74	GLY
5	CH	77	PRO
5	CH	128	PRO
5	CH	132	ALA
6	CI	12	PRO
6	CI	32	ASN
6	CI	96	PRO
8	CK	29	SER
8	CK	34	GLU
8	CK	103	VAL
9	CL	44	VAL
9	CL	88	TYR
9	CL	89	ASN

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Mol	Chain	Res	Type
10	CM	53	PRO
10	CM	59	SER
10	CM	75	ILE
11	CN	64	ALA
11	CN	105	VAL
12	CO	63	GLY
18	CU	58	LEU
19	CV	11	VAL
26	DD	33	LEU
26	DD	239	ARG
27	DE	79	ARG
28	DF	47	GLY
28	DF	118	ALA
28	DF	136	THR
30	DH	11	VAL
30	DH	27	LYS
30	DH	47	GLU
30	DH	77	LYS
30	DH	170	ARG
31	DK	18	VAL
31	DK	26	ALA
31	DK	102	SER
32	DM	29	LYS
32	DM	104	LYS
32	DM	128	HIS
33	DN	25	LEU
34	DO	50	ARG
34	DO	97	PRO
34	DO	108	LYS
36	D0	85	PRO
39	D1	91	ASP
41	DS	32	ALA
42	DT	19	ALA
43	DU	7	VAL
44	DV	132	ASN
44	DV	133	ILE
48	DX	13	ILE
49	D4	30	GLU
49	D4	33	VAL
49	D4	70	GLY
50	D5	42	PRO
51	D6	35	GLU

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Mol	Chain	Res	Type
53	D8	57	ARG
53	D8	64	TYR
2	AE	26	PRO
4	AG	91	SER
6	AI	24	GLU
7	AJ	100	ALA
10	AM	76	ASN
11	AN	117	ASN
12	AO	22	SER
19	AV	41	VAL
20	AW	84	LEU
20	AW	99	LEU
26	BD	11	PRO
26	BD	199	ALA
26	BD	268	ARG
27	BE	52	LEU
29	BG	81	LYS
29	BG	109	VAL
30	BH	8	PRO
30	BH	52	VAL
30	BH	164	TYR
31	BK	51	ILE
33	BN	12	ASP
34	BO	8	PRO
35	BP	4	PRO
35	BP	91	GLU
37	BQ	11	LYS
37	BQ	60	GLY
38	BR	104	ASN
39	B1	102	GLU
40	B2	71	LEU
43	BU	57	GLN
44	BV	58	VAL
45	B3	48	GLY
47	BW	11	GLU
51	B6	17	LYS
51	B6	21	TYR
51	B6	52	VAL
52	B7	46	VAL
2	CE	25	ASN
3	CF	51	GLY
5	CH	112	LEU

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Mol	Chain	Res	Type
5	CH	115	VAL
10	CM	85	LEU
11	CN	106	LYS
13	CP	13	LYS
13	CP	48	LEU
14	CQ	20	ALA
16	CS	57	ARG
26	DD	178	PRO
29	DG	109	VAL
29	DG	181	ARG
30	DH	7	LEU
30	DH	26	VAL
31	DK	104	GLN
31	DK	112	LYS
31	DK	120	ILE
38	DR	38	ASN
41	DS	11	ARG
41	DS	33	ARG
44	DV	94	GLU
49	D4	69	LYS
50	D5	57	VAL
52	D7	44	PRO
5	AH	67	VAL
26	BD	236	GLY
27	BE	50	GLY
28	BF	28	ILE
29	BG	42	GLY
29	BG	86	MET
47	BW	42	GLY
2	CE	202	PRO
2	CE	239	VAL
3	CF	114	PRO
4	CG	88	VAL
5	CH	49	PRO
7	CJ	55	GLY
7	CJ	58	PRO
8	CK	106	GLY
18	CU	37	VAL
20	CW	63	ILE
26	DD	240	ALA
27	DE	86	PRO
27	DE	184	VAL

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Mol	Chain	Res	Type
31	DK	71	ILE
35	DP	86	GLY
36	D0	32	GLY
40	D2	36	PRO
41	DS	35	ILE
44	DV	53	ILE
44	DV	130	PRO
4	AG	178	VAL
5	AH	109	ILE
7	AJ	21	VAL
8	AK	101	PRO
20	AW	41	ILE
27	BE	186	GLY
37	BQ	90	GLY
39	B1	100	VAL
53	B8	38	GLY
2	CE	227	GLY
4	CG	90	GLY
9	CL	24	GLY
13	CP	60	VAL
15	CR	18	PHE
16	CS	53	VAL
43	DU	27	VAL
43	DU	32	PRO
50	D5	46	CYS
3	AF	55	VAL
5	AH	129	ILE
11	AN	39	PRO
12	AO	125	PRO
27	BE	72	VAL
28	BF	78	ILE
29	BG	177	GLY
32	BM	134	ARG
39	B1	65	ILE
40	B2	46	VAL
41	BS	35	ILE
44	BV	83	PRO
48	BX	59	VAL
3	CF	134	ILE
13	CP	84	ILE
26	DD	34	VAL
29	DG	52	ILE

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Mol	Chain	Res	Type
33	DN	114	ILE
43	DU	51	VAL
44	DV	107	THR
44	DV	115	GLY
50	D5	34	PRO
12	AO	87	GLY
13	AP	95	GLY
26	BD	24	ILE
42	BT	84	ALA
43	BU	7	VAL
9	CL	21	PRO
13	CP	78	ILE
27	DE	52	LEU
27	DE	55	ASN
33	DN	27	GLY
48	DX	40	THR
6	AI	51	PRO
41	BS	108	GLY
43	BU	13	VAL
7	CJ	14	PRO
8	CK	51	VAL
16	CS	41	PRO
20	CW	97	ALA
32	BM	126	PRO
47	DW	18	PRO

4.3.2 Protein sidechains (i)

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
2	AE	204/220 (93%)	169 (83%)	35 (17%)	2 12
2	CE	205/220 (93%)	181 (88%)	24 (12%)	5 24
3	AF	160/188 (85%)	139 (87%)	21 (13%)	4 20
3	CF	159/188 (85%)	144 (91%)	15 (9%)	8 31
4	AG	180/181 (99%)	153 (85%)	27 (15%)	3 17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
4	CG	180/181 (99%)	161 (89%)	19 (11%)	6 27
5	AH	119/123 (97%)	99 (83%)	20 (17%)	2 13
5	CH	116/123 (94%)	104 (90%)	12 (10%)	7 28
6	AI	90/90 (100%)	79 (88%)	11 (12%)	5 22
6	CI	90/90 (100%)	76 (84%)	14 (16%)	2 15
7	AJ	126/127 (99%)	114 (90%)	12 (10%)	8 31
7	CJ	126/127 (99%)	113 (90%)	13 (10%)	7 28
8	AK	119/119 (100%)	108 (91%)	11 (9%)	8 32
8	CK	119/119 (100%)	106 (89%)	13 (11%)	6 26
9	AL	99/99 (100%)	80 (81%)	19 (19%)	1 8
9	CL	98/99 (99%)	84 (86%)	14 (14%)	3 18
10	AM	89/92 (97%)	80 (90%)	9 (10%)	7 28
10	CM	89/92 (97%)	81 (91%)	8 (9%)	9 32
11	AN	92/99 (93%)	80 (87%)	12 (13%)	4 21
11	CN	90/99 (91%)	82 (91%)	8 (9%)	9 32
12	AO	104/109 (95%)	91 (88%)	13 (12%)	4 22
12	CO	104/109 (95%)	86 (83%)	18 (17%)	2 11
13	AP	94/101 (93%)	77 (82%)	17 (18%)	2 10
13	CP	97/101 (96%)	83 (86%)	14 (14%)	3 18
14	AQ	49/50 (98%)	44 (90%)	5 (10%)	7 28
14	CQ	49/50 (98%)	42 (86%)	7 (14%)	3 18
15	AR	79/80 (99%)	74 (94%)	5 (6%)	16 42
15	CR	79/80 (99%)	71 (90%)	8 (10%)	7 28
16	AS	72/74 (97%)	61 (85%)	11 (15%)	3 16
16	CS	72/74 (97%)	64 (89%)	8 (11%)	6 25
17	AT	95/97 (98%)	86 (90%)	9 (10%)	8 31
17	CT	95/97 (98%)	86 (90%)	9 (10%)	8 31
18	AU	62/77 (80%)	55 (89%)	7 (11%)	5 25
18	CU	61/77 (79%)	52 (85%)	9 (15%)	3 17
19	AV	71/80 (89%)	61 (86%)	10 (14%)	3 18
19	CV	73/80 (91%)	62 (85%)	11 (15%)	3 16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
20	AW	76/82 (93%)	64 (84%)	12 (16%)	2 15
20	CW	76/82 (93%)	68 (90%)	8 (10%)	6 27
21	AX	20/22 (91%)	18 (90%)	2 (10%)	7 28
21	CX	20/22 (91%)	20 (100%)	0	100 100
26	BD	214/218 (98%)	181 (85%)	33 (15%)	2 16
26	DD	214/218 (98%)	174 (81%)	40 (19%)	1 9
27	BE	165/166 (99%)	135 (82%)	30 (18%)	2 10
27	DE	165/166 (99%)	125 (76%)	40 (24%)	1 4
28	BF	165/166 (99%)	144 (87%)	21 (13%)	4 21
28	DF	161/166 (97%)	137 (85%)	24 (15%)	3 17
29	BG	155/156 (99%)	138 (89%)	17 (11%)	6 26
29	DG	155/156 (99%)	135 (87%)	20 (13%)	4 21
30	BH	142/148 (96%)	111 (78%)	31 (22%)	1 6
30	DH	142/148 (96%)	112 (79%)	30 (21%)	1 6
31	BK	122/124 (98%)	105 (86%)	17 (14%)	3 19
31	DK	122/124 (98%)	93 (76%)	29 (24%)	1 4
32	BM	117/119 (98%)	100 (86%)	17 (14%)	3 17
32	DM	117/119 (98%)	96 (82%)	21 (18%)	2 10
33	BN	100/100 (100%)	86 (86%)	14 (14%)	3 19
33	DN	100/100 (100%)	89 (89%)	11 (11%)	6 26
34	BO	116/116 (100%)	83 (72%)	33 (28%)	0 2
34	DO	116/116 (100%)	88 (76%)	28 (24%)	1 4
35	BP	111/111 (100%)	91 (82%)	20 (18%)	2 10
35	DP	111/111 (100%)	93 (84%)	18 (16%)	2 14
36	B0	100/101 (99%)	86 (86%)	14 (14%)	3 19
36	D0	101/101 (100%)	84 (83%)	17 (17%)	2 13
37	BQ	87/88 (99%)	75 (86%)	12 (14%)	3 19
37	DQ	87/88 (99%)	73 (84%)	14 (16%)	2 14
38	BR	120/127 (94%)	98 (82%)	22 (18%)	2 10
38	DR	120/127 (94%)	98 (82%)	22 (18%)	2 10
39	B1	93/94 (99%)	81 (87%)	12 (13%)	4 21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
39	D1	93/94 (99%)	81 (87%)	12 (13%)	4 21
40	B2	82/82 (100%)	67 (82%)	15 (18%)	2 10
40	D2	82/82 (100%)	65 (79%)	17 (21%)	1 6
41	BS	92/92 (100%)	77 (84%)	15 (16%)	2 14
41	DS	92/92 (100%)	76 (83%)	16 (17%)	2 11
42	BT	74/78 (95%)	62 (84%)	12 (16%)	2 14
42	DT	74/78 (95%)	60 (81%)	14 (19%)	1 9
43	BU	85/91 (93%)	65 (76%)	20 (24%)	1 4
43	DU	85/91 (93%)	66 (78%)	19 (22%)	1 5
44	BV	155/179 (87%)	121 (78%)	34 (22%)	1 5
44	DV	152/179 (85%)	121 (80%)	31 (20%)	1 7
45	B3	63/67 (94%)	54 (86%)	9 (14%)	3 18
45	D3	62/67 (92%)	55 (89%)	7 (11%)	5 25
46	BZ	82/83 (99%)	66 (80%)	16 (20%)	1 8
46	DZ	82/83 (99%)	70 (85%)	12 (15%)	3 17
47	BW	64/67 (96%)	55 (86%)	9 (14%)	3 18
47	DW	64/67 (96%)	56 (88%)	8 (12%)	4 22
48	BX	51/52 (98%)	41 (80%)	10 (20%)	1 8
48	DX	51/52 (98%)	41 (80%)	10 (20%)	1 8
49	B4	63/63 (100%)	46 (73%)	17 (27%)	0 3
49	D4	63/63 (100%)	46 (73%)	17 (27%)	0 3
50	B5	51/52 (98%)	45 (88%)	6 (12%)	5 23
50	D5	51/52 (98%)	39 (76%)	12 (24%)	1 4
51	B6	47/52 (90%)	31 (66%)	16 (34%)	0 2
51	D6	48/52 (92%)	36 (75%)	12 (25%)	0 4
52	B7	42/42 (100%)	33 (79%)	9 (21%)	1 6
52	D7	42/42 (100%)	37 (88%)	5 (12%)	5 23
53	B8	54/55 (98%)	43 (80%)	11 (20%)	1 7
53	D8	54/55 (98%)	40 (74%)	14 (26%)	0 3
All	All	9616/9998 (96%)	8104 (84%)	1512 (16%)	2 15

All (1512) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AE	11	LEU
2	AE	12	GLU
2	AE	17	PHE
2	AE	23	ARG
2	AE	28	PHE
2	AE	30	ARG
2	AE	41	ILE
2	AE	42	ILE
2	AE	44	LEU
2	AE	49	GLU
2	AE	50	GLU
2	AE	58	ILE
2	AE	70	PHE
2	AE	75	LYS
2	AE	83	MET
2	AE	92	TYR
2	AE	108	ILE
2	AE	111	ARG
2	AE	117	GLU
2	AE	129	GLU
2	AE	145	LEU
2	AE	154	LEU
2	AE	156	LYS
2	AE	158	LEU
2	AE	172	ILE
2	AE	187	LEU
2	AE	189	ASP
2	AE	196	LEU
2	AE	198	ASP
2	AE	208	ILE
2	AE	224	GLN
2	AE	226	ARG
2	AE	231	GLU
2	AE	238	LEU
2	AE	240	GLN
3	AF	4	LYS
3	AF	5	ILE
3	AF	16	ARG
3	AF	21	ARG
3	AF	23	TYR
3	AF	27	LYS
3	AF	28	GLN
3	AF	36	ASP

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Mol	Chain	Res	Type
3	AF	37	GLN
3	AF	46	GLU
3	AF	62	ASP
3	AF	87	LEU
3	AF	91	LEU
3	AF	116	VAL
3	AF	119	ARG
3	AF	125	GLU
3	AF	131	ARG
3	AF	173	VAL
3	AF	192	THR
3	AF	196	LEU
3	AF	206	GLU
4	AG	3	ARG
4	AG	7	PRO
4	AG	8	VAL
4	AG	19	LEU
4	AG	21	LEU
4	AG	24	GLU
4	AG	26	CYS
4	AG	38	TYR
4	AG	53	ASP
4	AG	57	ARG
4	AG	58	LEU
4	AG	68	TYR
4	AG	84	LYS
4	AG	86	LYS
4	AG	96	LEU
4	AG	97	LEU
4	AG	122	ARG
4	AG	127	THR
4	AG	129	ASN
4	AG	135	LEU
4	AG	146	ILE
4	AG	155	LEU
4	AG	163	GLU
4	AG	177	ASP
4	AG	191	ARG
4	AG	193	ASP
4	AG	209	ARG
5	AH	6	PHE
5	AH	13	ILE

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Mol	Chain	Res	Type
5	AH	20	GLN
5	AH	25	ARG
5	AH	26	PHE
5	AH	33	VAL
5	AH	41	VAL
5	AH	51	VAL
5	AH	68	GLU
5	AH	76	ILE
5	AH	79	GLU
5	AH	83	GLU
5	AH	90	VAL
5	AH	100	VAL
5	AH	101	ILE
5	AH	112	LEU
5	AH	116	THR
5	AH	137	GLU
5	AH	152	ARG
5	AH	153	LYS
6	AI	14	LEU
6	AI	16	GLN
6	AI	28	ARG
6	AI	46	ARG
6	AI	52	ILE
6	AI	54	LYS
6	AI	63	TYR
6	AI	69	GLU
6	AI	78	GLU
6	AI	85	VAL
6	AI	98	LEU
7	AJ	3	ARG
7	AJ	8	GLU
7	AJ	16	LEU
7	AJ	36	LYS
7	AJ	57	GLU
7	AJ	84	ASN
7	AJ	124	LEU
7	AJ	126	ASP
7	AJ	131	LYS
7	AJ	137	LYS
7	AJ	151	TYR
7	AJ	155	ARG
8	AK	1	MET

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Mol	Chain	Res	Type
8	AK	10	LEU
8	AK	18	ARG
8	AK	25	ASP
8	AK	56	LYS
8	AK	63	LEU
8	AK	83	ILE
8	AK	102	ARG
8	AK	109	ILE
8	AK	112	LEU
8	AK	137	VAL
9	AL	1	MET
9	AL	10	ARG
9	AL	12	GLU
9	AL	16	ARG
9	AL	21	PRO
9	AL	25	LYS
9	AL	27	THR
9	AL	35	GLU
9	AL	38	GLN
9	AL	58	HIS
9	AL	60	ASP
9	AL	63	ILE
9	AL	78	LYS
9	AL	95	LYS
9	AL	112	LYS
9	AL	114	TYR
9	AL	117	HIS
9	AL	118	LYS
9	AL	124	GLN
10	AM	8	LEU
10	AM	13	HIS
10	AM	47	PHE
10	AM	62	HIS
10	AM	74	ILE
10	AM	78	ASN
10	AM	79	ARG
10	AM	80	LYS
10	AM	96	ILE
11	AN	9	LYS
11	AN	13	GLN
11	AN	18	ARG
11	AN	28	THR

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Mol	Chain	Res	Type
11	AN	38	ASN
11	AN	63	LEU
11	AN	79	SER
11	AN	83	ILE
11	AN	93	GLN
11	AN	112	THR
11	AN	125	PHE
11	AN	129	SER
12	AO	20	LYS
12	AO	23	LYS
12	AO	24	VAL
12	AO	28	LYS
12	AO	42	THR
12	AO	47	LYS
12	AO	62	SER
12	AO	83	VAL
12	AO	84	LEU
12	AO	110	VAL
12	AO	111	LYS
12	AO	124	LYS
12	AO	126	LYS
13	AP	7	VAL
13	AP	9	ILE
13	AP	10	PRO
13	AP	19	LEU
13	AP	34	LEU
13	AP	39	ILE
13	AP	46	LYS
13	AP	48	LEU
13	AP	64	TRP
13	AP	66	LEU
13	AP	70	LEU
13	AP	71	ARG
13	AP	73	GLU
13	AP	79	LYS
13	AP	93	ARG
13	AP	105	THR
13	AP	108	ARG
14	AQ	6	LEU
14	AQ	15	LYS
14	AQ	29	ARG
14	AQ	44	LEU

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Mol	Chain	Res	Type
14	AQ	61	TRP
15	AR	3	ILE
15	AR	10	LYS
15	AR	26	GLU
15	AR	41	GLU
15	AR	82	ILE
16	AS	1	MET
16	AS	2	VAL
16	AS	20	VAL
16	AS	21	VAL
16	AS	27	LYS
16	AS	45	THR
16	AS	53	VAL
16	AS	54	GLU
16	AS	67	THR
16	AS	69	THR
16	AS	82	GLN
17	AT	6	LEU
17	AT	10	VAL
17	AT	20	THR
17	AT	25	ARG
17	AT	26	GLN
17	AT	35	VAL
17	AT	73	VAL
17	AT	74	LEU
17	AT	78	GLU
18	AU	19	LYS
18	AU	26	LEU
18	AU	37	VAL
18	AU	47	THR
18	AU	58	LEU
18	AU	65	ILE
18	AU	87	ARG
19	AV	5	LEU
19	AV	6	LYS
19	AV	7	LYS
19	AV	11	VAL
19	AV	19	VAL
19	AV	27	GLU
19	AV	40	ILE
19	AV	43	GLU
19	AV	60	VAL

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Mol	Chain	Res	Type
19	AV	65	ASN
20	AW	24	LEU
20	AW	26	ASN
20	AW	29	LYS
20	AW	36	LEU
20	AW	58	LYS
20	AW	73	HIS
20	AW	74	LYS
20	AW	75	ASN
20	AW	84	LEU
20	AW	93	GLU
20	AW	100	ILE
20	AW	104	LEU
21	AX	15	ARG
21	AX	26	LYS
26	BD	10	THR
26	BD	24	ILE
26	BD	31	LYS
26	BD	61	LEU
26	BD	65	ILE
26	BD	68	LYS
26	BD	71	ASP
26	BD	72	LYS
26	BD	76	PRO
26	BD	94	LEU
26	BD	95	LEU
26	BD	98	VAL
26	BD	103	ARG
26	BD	105	ILE
26	BD	106	ILE
26	BD	111	LEU
26	BD	117	VAL
26	BD	135	PHE
26	BD	138	VAL
26	BD	142	VAL
26	BD	150	LYS
26	BD	161	THR
26	BD	165	ILE
26	BD	166	GLN
26	BD	176	ARG
26	BD	177	LEU
26	BD	192	THR

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Mol	Chain	Res	Type
26	BD	211	ARG
26	BD	212	SER
26	BD	244	ARG
26	BD	255	LYS
26	BD	270	ILE
26	BD	271	ILE
27	BE	4	ILE
27	BE	7	VAL
27	BE	17	ASP
27	BE	35	GLN
27	BE	38	THR
27	BE	40	GLU
27	BE	60	ASN
27	BE	63	LEU
27	BE	69	LYS
27	BE	75	VAL
27	BE	76	ARG
27	BE	78	LEU
27	BE	79	ARG
27	BE	95	ILE
27	BE	116	VAL
27	BE	118	LYS
27	BE	119	ARG
27	BE	134	ILE
27	BE	144	ARG
27	BE	154	LYS
27	BE	175	VAL
27	BE	181	LEU
27	BE	182	LEU
27	BE	184	VAL
27	BE	197	ILE
27	BE	199	ARG
27	BE	200	GLU
27	BE	201	THR
27	BE	202	LYS
27	BE	203	LYS
28	BF	7	TYR
28	BF	24	LEU
28	BF	27	GLU
28	BF	28	ILE
28	BF	29	ASN
28	BF	32	LEU

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Mol	Chain	Res	Type
28	BF	33	LEU
28	BF	67	GLN
28	BF	68	LYS
28	BF	72	ARG
28	BF	74	ARG
28	BF	83	PHE
28	BF	96	ASP
28	BF	97	TYR
28	BF	125	LEU
28	BF	149	ASP
28	BF	158	THR
28	BF	174	VAL
28	BF	175	THR
28	BF	183	VAL
28	BF	197	ASP
29	BG	10	LYS
29	BG	28	VAL
29	BG	34	LEU
29	BG	35	GLU
29	BG	43	LEU
29	BG	72	ARG
29	BG	81	LYS
29	BG	88	ILE
29	BG	94	LEU
29	BG	104	GLU
29	BG	114	ILE
29	BG	115	ARG
29	BG	121	ASN
29	BG	135	LEU
29	BG	148	MET
29	BG	164	GLU
29	BG	174	GLU
30	BH	8	PRO
30	BH	9	ILE
30	BH	12	PRO
30	BH	21	PRO
30	BH	27	LYS
30	BH	39	PRO
30	BH	40	GLU
30	BH	44	VAL
30	BH	46	GLU
30	BH	47	GLU

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Mol	Chain	Res	Type
30	BH	51	ARG
30	BH	59	ARG
30	BH	81	GLU
30	BH	83	TYR
30	BH	85	LYS
30	BH	89	ILE
30	BH	101	ARG
30	BH	103	LEU
30	BH	105	LEU
30	BH	107	VAL
30	BH	109	PHE
30	BH	116	GLU
30	BH	119	GLU
30	BH	124	GLU
30	BH	125	VAL
30	BH	130	ARG
30	BH	133	VAL
30	BH	157	TYR
30	BH	158	HIS
30	BH	163	TYR
30	BH	167	GLU
31	BK	1	MET
31	BK	9	LEU
31	BK	10	GLU
31	BK	52	ARG
31	BK	56	LYS
31	BK	57	ARG
31	BK	62	LYS
31	BK	74	ASN
31	BK	77	LEU
31	BK	82	ARG
31	BK	101	LEU
31	BK	109	ILE
31	BK	117	GLU
31	BK	122	GLU
31	BK	125	GLU
31	BK	130	TYR
31	BK	138	ILE
32	BM	1	MET
32	BM	7	LYS
32	BM	12	ARG
32	BM	32	THR

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Mol	Chain	Res	Type
32	BM	33	LEU
32	BM	34	LEU
32	BM	41	ASP
32	BM	45	ASN
32	BM	48	MET
32	BM	71	ILE
32	BM	87	LEU
32	BM	99	LEU
32	BM	108	PRO
32	BM	111	PRO
32	BM	112	LEU
32	BM	131	GLN
32	BM	137	LYS
33	BN	5	GLN
33	BN	8	LEU
33	BN	9	GLU
33	BN	34	THR
33	BN	43	VAL
33	BN	48	PRO
33	BN	49	ARG
33	BN	80	ASP
33	BN	87	ILE
33	BN	97	ARG
33	BN	99	PHE
33	BN	104	ARG
33	BN	108	GLU
33	BN	114	ILE
34	BO	6	LEU
34	BO	9	ASN
34	BO	10	PRO
34	BO	14	LYS
34	BO	19	VAL
34	BO	21	ARG
34	BO	27	HIS
34	BO	30	THR
34	BO	36	LYS
34	BO	45	LEU
34	BO	52	GLU
34	BO	58	THR
34	BO	59	LEU
34	BO	63	PRO
34	BO	65	ARG

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Mol	Chain	Res	Type
34	BO	75	ILE
34	BO	81	GLN
34	BO	85	LEU
34	BO	86	LYS
34	BO	87	ASP
34	BO	91	PHE
34	BO	98	GLU
34	BO	107	LYS
34	BO	110	TYR
34	BO	112	LEU
34	BO	114	ILE
34	BO	115	LEU
34	BO	117	GLU
34	BO	136	GLU
34	BO	144	GLU
34	BO	147	LEU
34	BO	148	LEU
34	BO	149	GLU
35	BP	1	MET
35	BP	2	LEU
35	BP	16	ARG
35	BP	17	LEU
35	BP	22	LYS
35	BP	25	ASP
35	BP	45	GLN
35	BP	56	ARG
35	BP	64	ILE
35	BP	66	ILE
35	BP	79	LEU
35	BP	80	GLU
35	BP	81	VAL
35	BP	82	ARG
35	BP	83	MET
35	BP	89	ASN
35	BP	96	VAL
35	BP	103	MET
35	BP	104	PHE
35	BP	141	GLN
36	B0	2	ARG
36	B0	6	SER
36	B0	49	ASP
36	B0	51	LEU

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Mol	Chain	Res	Type
36	B0	63	ARG
36	B0	65	LEU
36	B0	67	LEU
36	B0	71	GLN
36	B0	74	LYS
36	B0	75	LEU
36	B0	76	VAL
36	B0	79	LEU
36	B0	104	ARG
36	B0	105	ARG
37	BQ	12	PHE
37	BQ	15	ARG
37	BQ	17	ARG
37	BQ	20	ARG
37	BQ	25	ARG
37	BQ	32	LEU
37	BQ	36	TYR
37	BQ	48	LEU
37	BQ	56	LEU
37	BQ	83	LYS
37	BQ	106	ARG
37	BQ	110	LEU
38	BR	8	LYS
38	BR	27	THR
38	BR	29	ARG
38	BR	35	LYS
38	BR	40	THR
38	BR	41	ARG
38	BR	51	ARG
38	BR	58	ASN
38	BR	59	THR
38	BR	63	VAL
38	BR	74	ARG
38	BR	78	LEU
38	BR	88	ILE
38	BR	89	VAL
38	BR	91	ARG
38	BR	98	LYS
38	BR	99	LEU
38	BR	105	LEU
38	BR	115	ARG
38	BR	132	LYS

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Mol	Chain	Res	Type
38	BR	136	GLN
38	BR	137	LYS
39	B1	5	LYS
39	B1	13	LYS
39	B1	37	GLU
39	B1	52	ARG
39	B1	64	ARG
39	B1	71	GLN
39	B1	74	LEU
39	B1	83	LEU
39	B1	92	ARG
39	B1	97	ASP
39	B1	98	LEU
39	B1	104	GLN
40	B2	15	GLU
40	B2	19	LYS
40	B2	28	GLU
40	B2	35	LEU
40	B2	45	THR
40	B2	64	HIS
40	B2	66	ARG
40	B2	71	LEU
40	B2	75	PHE
40	B2	80	GLN
40	B2	81	TYR
40	B2	82	ARG
40	B2	83	ARG
40	B2	87	HIS
40	B2	98	GLU
41	BS	1	MET
41	BS	11	ARG
41	BS	15	ARG
41	BS	18	ARG
41	BS	19	LEU
41	BS	20	VAL
41	BS	52	GLU
41	BS	65	LEU
41	BS	66	GLU
41	BS	70	TYR
41	BS	75	TYR
41	BS	88	ARG
41	BS	94	ASP

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Mol	Chain	Res	Type
41	BS	96	ILE
41	BS	107	LEU
42	BT	8	ILE
42	BT	12	VAL
42	BT	28	PHE
42	BT	30	VAL
42	BT	37	THR
42	BT	48	LYS
42	BT	49	VAL
42	BT	53	LYS
42	BT	57	LEU
42	BT	63	LYS
42	BT	75	ASP
42	BT	76	ARG
43	BU	3	VAL
43	BU	5	MET
43	BU	7	VAL
43	BU	14	LEU
43	BU	28	LYS
43	BU	38	ILE
43	BU	42	VAL
43	BU	43	ASN
43	BU	55	TYR
43	BU	57	GLN
43	BU	60	PHE
43	BU	62	GLU
43	BU	63	LYS
43	BU	75	ILE
43	BU	76	CYS
43	BU	77	PRO
43	BU	86	ARG
43	BU	95	LYS
43	BU	97	ARG
43	BU	99	CYS
44	BV	1	MET
44	BV	4	ARG
44	BV	10	ARG
44	BV	13	GLU
44	BV	19	ARG
44	BV	24	LEU
44	BV	33	LEU
44	BV	34	ASN

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Mol	Chain	Res	Type
44	BV	45	ASP
44	BV	50	GLN
44	BV	54	HIS
44	BV	59	LEU
44	BV	61	LEU
44	BV	67	LEU
44	BV	70	LEU
44	BV	75	ASN
44	BV	81	ARG
44	BV	83	PRO
44	BV	87	ASP
44	BV	91	LEU
44	BV	93	ASP
44	BV	107	THR
44	BV	112	ARG
44	BV	118	GLN
44	BV	120	ILE
44	BV	122	ARG
44	BV	134	PRO
44	BV	136	PHE
44	BV	139	VAL
44	BV	144	LEU
44	BV	145	GLU
44	BV	151	HIS
44	BV	156	LYS
44	BV	171	ILE
45	B3	7	LEU
45	B3	11	ARG
45	B3	25	ARG
45	B3	26	TYR
45	B3	36	ILE
45	B3	43	THR
45	B3	49	LYS
45	B3	75	LEU
45	B3	84	LEU
46	BZ	4	VAL
46	BZ	40	ARG
46	BZ	41	ARG
46	BZ	46	LEU
46	BZ	56	GLN
46	BZ	78	LYS
46	BZ	80	LEU

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Mol	Chain	Res	Type
46	BZ	81	LYS
46	BZ	82	LEU
46	BZ	85	LEU
46	BZ	87	PRO
46	BZ	90	ILE
46	BZ	91	LYS
46	BZ	95	LEU
46	BZ	97	LEU
46	BZ	98	LEU
47	BW	9	GLN
47	BW	31	GLU
47	BW	35	LEU
47	BW	41	ILE
47	BW	47	ASN
47	BW	49	LYS
47	BW	50	ILE
47	BW	52	ASP
47	BW	60	LEU
48	BX	16	PRO
48	BX	17	LYS
48	BX	24	LYS
48	BX	31	LEU
48	BX	32	GLN
48	BX	36	VAL
48	BX	40	THR
48	BX	46	ASN
48	BX	52	HIS
48	BX	56	VAL
49	B4	2	LYS
49	B4	5	ILE
49	B4	9	LEU
49	B4	10	VAL
49	B4	13	ARG
49	B4	14	ILE
49	B4	16	CYS
49	B4	21	VAL
49	B4	34	GLU
49	B4	39	CYS
49	B4	53	GLU
49	B4	55	ARG
49	B4	59	PHE
49	B4	61	ARG

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Mol	Chain	Res	Type
49	B4	63	TYR
49	B4	69	LYS
49	B4	71	ARG
50	B5	3	LYS
50	B5	4	HIS
50	B5	6	VAL
50	B5	25	LEU
50	B5	48	GLU
50	B5	52	TYR
51	B6	7	ILE
51	B6	8	LYS
51	B6	10	LEU
51	B6	11	LEU
51	B6	12	GLU
51	B6	21	TYR
51	B6	24	GLU
51	B6	27	LYS
51	B6	28	ARG
51	B6	29	ASN
51	B6	30	THR
51	B6	31	PRO
51	B6	33	LYS
51	B6	37	ARG
51	B6	38	LYS
51	B6	45	LYS
52	B7	1	MET
52	B7	4	THR
52	B7	8	ASN
52	B7	28	ARG
52	B7	43	THR
52	B7	46	VAL
52	B7	47	ARG
52	B7	48	LYS
52	B7	49	ARG
53	B8	23	VAL
53	B8	25	MET
53	B8	27	THR
53	B8	32	LEU
53	B8	40	GLU
53	B8	41	ILE
53	B8	43	GLN
53	B8	48	PHE

Continued on next page...

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Mol	Chain	Res	Type
53	B8	54	GLU
53	B8	58	ILE
53	B8	61	LEU
2	CE	5	ILE
2	CE	8	LYS
2	CE	20	GLU
2	CE	23	ARG
2	CE	24	TRP
2	CE	36	ARG
2	CE	37	ASN
2	CE	63	MET
2	CE	67	THR
2	CE	73	THR
2	CE	75	LYS
2	CE	90	MET
2	CE	92	TYR
2	CE	94	ASN
2	CE	121	LEU
2	CE	155	LEU
2	CE	163	PHE
2	CE	165	VAL
2	CE	168	THR
2	CE	172	ILE
2	CE	174	VAL
2	CE	178	ARG
2	CE	215	LEU
2	CE	222	ILE
3	CF	5	ILE
3	CF	12	LEU
3	CF	16	ARG
3	CF	21	ARG
3	CF	27	LYS
3	CF	45	LYS
3	CF	56	ASP
3	CF	82	GLU
3	CF	127	ARG
3	CF	131	ARG
3	CF	154	SER
3	CF	192	THR
3	CF	193	TYR
3	CF	196	LEU
3	CF	198	VAL

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Mol	Chain	Res	Type
4	CG	3	ARG
4	CG	7	PRO
4	CG	9	CYS
4	CG	13	ARG
4	CG	30	LYS
4	CG	50	ARG
4	CG	53	ASP
4	CG	58	LEU
4	CG	79	PHE
4	CG	86	LYS
4	CG	94	LEU
4	CG	96	LEU
4	CG	112	VAL
4	CG	114	ARG
4	CG	127	THR
4	CG	131	ARG
4	CG	146	ILE
4	CG	181	MET
4	CG	196	LEU
5	CH	10	MET
5	CH	13	ILE
5	CH	16	THR
5	CH	20	GLN
5	CH	31	LEU
5	CH	51	VAL
5	CH	53	LEU
5	CH	79	GLU
5	CH	101	ILE
5	CH	112	LEU
5	CH	140	ARG
5	CH	153	LYS
6	CI	17	SER
6	CI	21	LEU
6	CI	27	GLN
6	CI	32	ASN
6	CI	36	ARG
6	CI	45	LEU
6	CI	55	ASP
6	CI	63	TYR
6	CI	74	ASP
6	CI	77	ARG
6	CI	92	LYS

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Mol	Chain	Res	Type
6	CI	94	GLN
6	CI	97	PHE
6	CI	100	ASN
7	CJ	8	GLU
7	CJ	12	LEU
7	CJ	30	ILE
7	CJ	38	LEU
7	CJ	84	ASN
7	CJ	98	SER
7	CJ	104	LEU
7	CJ	111	ARG
7	CJ	124	LEU
7	CJ	126	ASP
7	CJ	137	LYS
7	CJ	148	ASN
7	CJ	155	ARG
8	CK	1	MET
8	CK	10	LEU
8	CK	26	VAL
8	CK	27	PRO
8	CK	41	ARG
8	CK	52	ASP
8	CK	63	LEU
8	CK	83	ILE
8	CK	99	GLU
8	CK	119	LEU
8	CK	121	ASP
8	CK	129	VAL
8	CK	137	VAL
9	CL	7	THR
9	CL	9	ARG
9	CL	23	ASN
9	CL	47	LEU
9	CL	48	GLU
9	CL	65	VAL
9	CL	83	ARG
9	CL	85	LEU
9	CL	95	LYS
9	CL	104	ARG
9	CL	113	LYS
9	CL	114	TYR
9	CL	118	LYS

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Mol	Chain	Res	Type
9	CL	128	ARG
10	CM	47	PHE
10	CM	49	VAL
10	CM	57	LYS
10	CM	62	HIS
10	CM	74	ILE
10	CM	80	LYS
10	CM	84	GLN
10	CM	96	ILE
11	CN	25	TYR
11	CN	32	ILE
11	CN	63	LEU
11	CN	75	TYR
11	CN	92	GLU
11	CN	109	VAL
11	CN	114	VAL
11	CN	125	PHE
12	CO	17	LYS
12	CO	20	LYS
12	CO	24	VAL
12	CO	27	LEU
12	CO	41	ARG
12	CO	57	LYS
12	CO	60	LEU
12	CO	62	SER
12	CO	70	ILE
12	CO	73	GLU
12	CO	81	SER
12	CO	101	VAL
12	CO	104	VAL
12	CO	110	VAL
12	CO	112	ASP
12	CO	116	SER
12	CO	120	TYR
12	CO	126	LYS
13	CP	3	ARG
13	CP	8	GLU
13	CP	13	LYS
13	CP	35	GLU
13	CP	47	ASP
13	CP	56	LEU
13	CP	57	ARG

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Mol	Chain	Res	Type
13	CP	66	LEU
13	CP	70	LEU
13	CP	88	ARG
13	CP	101	GLN
13	CP	115	LYS
13	CP	116	THR
13	CP	122	LYS
14	CQ	3	ARG
14	CQ	12	ARG
14	CQ	14	PRO
14	CQ	16	PHE
14	CQ	24	CYS
14	CQ	27	CYS
14	CQ	44	LEU
15	CR	3	ILE
15	CR	6	GLU
15	CR	8	LYS
15	CR	26	GLU
15	CR	39	LEU
15	CR	65	ARG
15	CR	67	LEU
15	CR	82	ILE
16	CS	11	SER
16	CS	26	ARG
16	CS	28	ARG
16	CS	59	TRP
16	CS	62	VAL
16	CS	69	THR
16	CS	71	ARG
16	CS	82	GLN
17	CT	9	VAL
17	CT	12	SER
17	CT	38	ARG
17	CT	48	GLU
17	CT	52	LYS
17	CT	59	ILE
17	CT	65	ILE
17	CT	68	ARG
17	CT	74	LEU
18	CU	26	LEU
18	CU	29	PHE
18	CU	32	ARG

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Mol	Chain	Res	Type
18	CU	46	GLU
18	CU	54	ARG
18	CU	55	ARG
18	CU	69	THR
18	CU	83	GLU
18	CU	86	VAL
19	CV	5	LEU
19	CV	10	PHE
19	CV	12	ASP
19	CV	15	LEU
19	CV	29	ARG
19	CV	30	LEU
19	CV	41	VAL
19	CV	63	THR
19	CV	65	ASN
19	CV	81	ARG
19	CV	83	HIS
20	CW	9	ASN
20	CW	10	LEU
20	CW	24	LEU
20	CW	26	ASN
20	CW	41	ILE
20	CW	73	HIS
20	CW	75	ASN
20	CW	93	GLU
26	DD	10	THR
26	DD	17	THR
26	DD	26	LYS
26	DD	28	GLU
26	DD	33	LEU
26	DD	43	ARG
26	DD	44	ASN
26	DD	52	ARG
26	DD	61	LEU
26	DD	65	ILE
26	DD	73	VAL
26	DD	94	LEU
26	DD	98	VAL
26	DD	105	ILE
26	DD	106	ILE
26	DD	131	LEU
26	DD	134	ARG

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Mol	Chain	Res	Type
26	DD	135	PHE
26	DD	147	LEU
26	DD	155	LEU
26	DD	157	ARG
26	DD	166	GLN
26	DD	173	VAL
26	DD	177	LEU
26	DD	183	ARG
26	DD	192	THR
26	DD	198	ASN
26	DD	200	ASP
26	DD	215	LEU
26	DD	217	ARG
26	DD	218	ARG
26	DD	221	VAL
26	DD	226	MET
26	DD	230	ASP
26	DD	233	HIS
26	DD	237	GLU
26	DD	257	LEU
26	DD	259	THR
26	DD	261	LYS
26	DD	271	ILE
27	DE	2	LYS
27	DE	4	ILE
27	DE	5	LEU
27	DE	13	ARG
27	DE	14	ILE
27	DE	17	ASP
27	DE	21	VAL
27	DE	25	VAL
27	DE	26	ILE
27	DE	27	LEU
27	DE	33	VAL
27	DE	36	ARG
27	DE	38	THR
27	DE	41	LYS
27	DE	45	THR
27	DE	48	GLN
27	DE	49	LEU
27	DE	54	GLN
27	DE	59	VAL

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Mol	Chain	Res	Type
27	DE	61	ARG
27	DE	62	PRO
27	DE	66	HIS
27	DE	73	GLU
27	DE	75	VAL
27	DE	77	ILE
27	DE	78	LEU
27	DE	79	ARG
27	DE	80	GLU
27	DE	93	VAL
27	DE	117	MET
27	DE	119	ARG
27	DE	143	ASN
27	DE	146	THR
27	DE	154	LYS
27	DE	167	VAL
27	DE	179	GLU
27	DE	184	VAL
27	DE	196	VAL
27	DE	200	GLU
27	DE	203	LYS
28	DF	7	TYR
28	DF	9	ILE
28	DF	25	PRO
28	DF	32	LEU
28	DF	33	LEU
28	DF	45	ARG
28	DF	46	ARG
28	DF	65	TRP
28	DF	66	PRO
28	DF	67	GLN
28	DF	70	THR
28	DF	82	ILE
28	DF	106	ARG
28	DF	108	LYS
28	DF	124	LEU
28	DF	127	GLU
28	DF	145	GLU
28	DF	161	GLU
28	DF	164	ARG
28	DF	169	ASN
28	DF	179	GLU

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Mol	Chain	Res	Type
28	DF	181	LEU
28	DF	183	VAL
28	DF	206	ILE
29	DG	4	ASP
29	DG	22	ARG
29	DG	34	LEU
29	DG	43	LEU
29	DG	45	GLU
29	DG	63	ILE
29	DG	67	LYS
29	DG	71	THR
29	DG	88	ILE
29	DG	94	LEU
29	DG	96	ARG
29	DG	103	LEU
29	DG	115	ARG
29	DG	118	ARG
29	DG	135	LEU
29	DG	147	ASP
29	DG	155	MET
29	DG	156	ASP
29	DG	159	VAL
29	DG	174	GLU
30	DH	3	ARG
30	DH	4	ILE
30	DH	9	ILE
30	DH	10	PRO
30	DH	11	VAL
30	DH	16	SER
30	DH	27	LYS
30	DH	32	GLU
30	DH	37	VAL
30	DH	41	MET
30	DH	43	VAL
30	DH	44	VAL
30	DH	47	GLU
30	DH	59	ARG
30	DH	64	LEU
30	DH	77	LYS
30	DH	81	GLU
30	DH	88	LEU
30	DH	89	ILE

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Mol	Chain	Res	Type
30	DH	105	LEU
30	DH	124	GLU
30	DH	132	ARG
30	DH	136	ILE
30	DH	143	GLN
30	DH	144	VAL
30	DH	152	ARG
30	DH	153	LYS
30	DH	154	PRO
30	DH	155	SER
30	DH	169	VAL
31	DK	1	MET
31	DK	7	GLU
31	DK	9	LEU
31	DK	27	ARG
31	DK	33	ARG
31	DK	38	LEU
31	DK	41	GLU
31	DK	42	SER
31	DK	52	ARG
31	DK	56	LYS
31	DK	57	ARG
31	DK	67	ARG
31	DK	70	GLU
31	DK	73	GLU
31	DK	74	ASN
31	DK	79	ILE
31	DK	85	GLU
31	DK	88	ILE
31	DK	96	ASP
31	DK	101	LEU
31	DK	112	LYS
31	DK	118	LYS
31	DK	128	LEU
31	DK	134	PRO
31	DK	135	GLU
31	DK	139	GLN
31	DK	140	LEU
31	DK	141	LYS
31	DK	142	VAL
32	DM	2	LYS
32	DM	7	LYS

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Mol	Chain	Res	Type
32	DM	43	THR
32	DM	45	ASN
32	DM	48	MET
32	DM	60	ILE
32	DM	61	ARG
32	DM	65	LYS
32	DM	73	THR
32	DM	78	TYR
32	DM	90	MET
32	DM	93	THR
32	DM	94	HIS
32	DM	98	VAL
32	DM	101	HIS
32	DM	109	LYS
32	DM	112	LEU
32	DM	120	LEU
32	DM	127	ASP
32	DM	131	GLN
32	DM	136	GLU
33	DN	8	LEU
33	DN	9	GLU
33	DN	19	ILE
33	DN	23	ARG
33	DN	39	ILE
33	DN	49	ARG
33	DN	52	VAL
33	DN	53	LYS
33	DN	63	VAL
33	DN	65	THR
33	DN	91	LEU
34	DO	5	ASP
34	DO	10	PRO
34	DO	14	LYS
34	DO	16	ARG
34	DO	21	ARG
34	DO	27	HIS
34	DO	29	LYS
34	DO	30	THR
34	DO	32	THR
34	DO	33	ARG
34	DO	36	LYS
34	DO	50	ARG

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Mol	Chain	Res	Type
34	DO	55	ARG
34	DO	61	ARG
34	DO	62	LEU
34	DO	64	LYS
34	DO	65	ARG
34	DO	68	GLN
34	DO	75	ILE
34	DO	81	GLN
34	DO	88	LEU
34	DO	91	PHE
34	DO	99	LEU
34	DO	100	LEU
34	DO	105	LEU
34	DO	144	GLU
34	DO	146	VAL
34	DO	149	GLU
35	DP	2	LEU
35	DP	25	ASP
35	DP	26	TYR
35	DP	27	VAL
35	DP	45	GLN
35	DP	46	GLN
35	DP	54	MET
35	DP	55	VAL
35	DP	58	PHE
35	DP	59	ARG
35	DP	79	LEU
35	DP	80	GLU
35	DP	83	MET
35	DP	89	ASN
35	DP	90	VAL
35	DP	91	GLU
35	DP	112	GLU
35	DP	139	GLU
36	D0	14	SER
36	D0	37	THR
36	D0	44	LEU
36	D0	51	LEU
36	D0	66	VAL
36	D0	67	LEU
36	D0	71	GLN
36	D0	75	LEU

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Mol	Chain	Res	Type
36	D0	76	VAL
36	D0	81	ASP
36	D0	91	GLN
36	D0	95	THR
36	D0	100	LEU
36	D0	104	ARG
36	D0	105	ARG
36	D0	107	ASP
36	D0	113	LEU
37	DQ	4	LEU
37	DQ	12	PHE
37	DQ	17	ARG
37	DQ	18	ILE
37	DQ	20	ARG
37	DQ	44	LYS
37	DQ	56	LEU
37	DQ	57	LYS
37	DQ	73	LEU
37	DQ	89	ARG
37	DQ	101	LEU
37	DQ	103	GLU
37	DQ	106	ARG
37	DQ	111	GLU
38	DR	2	ASN
38	DR	14	TYR
38	DR	22	PHE
38	DR	23	ARG
38	DR	27	THR
38	DR	42	ILE
38	DR	48	ILE
38	DR	50	ILE
38	DR	58	ASN
38	DR	65	LYS
38	DR	73	GLU
38	DR	78	LEU
38	DR	84	GLN
38	DR	86	ILE
38	DR	87	ASP
38	DR	100	TYR
38	DR	104	ASN
38	DR	107	ASP
38	DR	111	ARG

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Mol	Chain	Res	Type
38	DR	112	ARG
38	DR	128	GLU
38	DR	134	GLU
39	D1	5	LYS
39	D1	9	VAL
39	D1	31	SER
39	D1	52	ARG
39	D1	60	LEU
39	D1	64	ARG
39	D1	79	PHE
39	D1	88	ILE
39	D1	92	ARG
39	D1	98	LEU
39	D1	108	GLU
39	D1	117	GLN
40	D2	14	VAL
40	D2	18	LEU
40	D2	24	LYS
40	D2	35	LEU
40	D2	37	VAL
40	D2	38	LEU
40	D2	39	LEU
40	D2	40	LEU
40	D2	47	VAL
40	D2	57	VAL
40	D2	61	VAL
40	D2	66	ARG
40	D2	70	ILE
40	D2	75	PHE
40	D2	89	GLN
40	D2	91	TYR
40	D2	99	ILE
41	DS	11	ARG
41	DS	14	PRO
41	DS	16	LYS
41	DS	19	LEU
41	DS	20	VAL
41	DS	23	LEU
41	DS	63	ASP
41	DS	67	ASP
41	DS	69	LEU
41	DS	70	TYR

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Mol	Chain	Res	Type
41	DS	87	PRO
41	DS	88	ARG
41	DS	92	ARG
41	DS	95	ILE
41	DS	107	LEU
41	DS	109	GLU
42	DT	3	THR
42	DT	15	GLU
42	DT	27	THR
42	DT	30	VAL
42	DT	41	ASN
42	DT	49	VAL
42	DT	57	LEU
42	DT	65	ARG
42	DT	70	LEU
42	DT	72	LYS
42	DT	76	ARG
42	DT	80	ILE
42	DT	81	VAL
42	DT	88	LYS
43	DU	7	VAL
43	DU	26	LYS
43	DU	27	VAL
43	DU	42	VAL
43	DU	43	ASN
43	DU	45	VAL
43	DU	57	GLN
43	DU	61	ILE
43	DU	64	GLU
43	DU	72	VAL
43	DU	75	ILE
43	DU	77	PRO
43	DU	79	CYS
43	DU	87	LYS
43	DU	88	LYS
43	DU	89	PHE
43	DU	90	LEU
43	DU	95	LYS
43	DU	97	ARG
44	DV	2	GLU
44	DV	18	LEU
44	DV	19	ARG

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Mol	Chain	Res	Type
44	DV	20	ARG
44	DV	24	LEU
44	DV	31	ARG
44	DV	72	ARG
44	DV	76	LEU
44	DV	81	ARG
44	DV	82	ARG
44	DV	87	ASP
44	DV	94	GLU
44	DV	96	VAL
44	DV	97	GLU
44	DV	98	MET
44	DV	107	THR
44	DV	117	LEU
44	DV	118	GLN
44	DV	119	GLU
44	DV	121	HIS
44	DV	123	ASP
44	DV	131	ARG
44	DV	132	ASN
44	DV	137	ILE
44	DV	139	VAL
44	DV	141	VAL
44	DV	148	ASP
44	DV	155	LEU
44	DV	157	LEU
44	DV	170	THR
44	DV	171	ILE
45	D3	10	THR
45	D3	11	ARG
45	D3	35	ASN
45	D3	36	ILE
45	D3	41	ARG
45	D3	74	ARG
45	D3	82	ARG
46	DZ	2	SER
46	DZ	11	ARG
46	DZ	30	VAL
46	DZ	41	ARG
46	DZ	56	GLN
46	DZ	75	GLU
46	DZ	80	LEU

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Mol	Chain	Res	Type
46	DZ	81	LYS
46	DZ	83	GLU
46	DZ	87	PRO
46	DZ	91	LYS
46	DZ	97	LEU
47	DW	7	ARG
47	DW	9	GLN
47	DW	16	LEU
47	DW	24	LEU
47	DW	47	ASN
47	DW	53	LEU
47	DW	62	THR
47	DW	64	LEU
48	DX	4	LEU
48	DX	8	LEU
48	DX	9	VAL
48	DX	10	LYS
48	DX	30	ARG
48	DX	31	LEU
48	DX	32	GLN
48	DX	37	LEU
48	DX	40	THR
48	DX	44	ARG
49	D4	6	HIS
49	D4	15	ILE
49	D4	18	CYS
49	D4	21	VAL
49	D4	23	GLU
49	D4	39	CYS
49	D4	42	PHE
49	D4	49	PHE
49	D4	50	VAL
49	D4	53	GLU
49	D4	57	GLU
49	D4	61	ARG
49	D4	62	ARG
49	D4	63	TYR
49	D4	68	ARG
49	D4	69	LYS
49	D4	71	ARG
50	D5	3	LYS
50	D5	4	HIS

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Mol	Chain	Res	Type
50	D5	6	VAL
50	D5	11	THR
50	D5	19	ARG
50	D5	25	LEU
50	D5	36	CYS
50	D5	37	LYS
50	D5	43	HIS
50	D5	52	TYR
50	D5	56	LYS
50	D5	58	LEU
51	D6	6	ARG
51	D6	8	LYS
51	D6	10	LEU
51	D6	18	ARG
51	D6	19	ARG
51	D6	27	LYS
51	D6	33	LYS
51	D6	34	LEU
51	D6	37	ARG
51	D6	42	TRP
51	D6	44	ARG
51	D6	53	LYS
52	D7	1	MET
52	D7	8	ASN
52	D7	9	ARG
52	D7	14	LYS
52	D7	43	THR
53	D8	16	ILE
53	D8	30	ARG
53	D8	35	GLN
53	D8	39	LYS
53	D8	43	GLN
53	D8	47	LYS
53	D8	48	PHE
53	D8	49	VAL
53	D8	52	LYS
53	D8	53	PRO
53	D8	59	LYS
53	D8	62	LEU
53	D8	63	PRO
53	D8	65	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (320)

such sidechains are listed below:

Mol	Chain	Res	Type
2	AE	37	ASN
2	AE	40	HIS
2	AE	76	GLN
2	AE	94	ASN
2	AE	104	ASN
2	AE	135	GLN
2	AE	140	HIS
2	AE	146	GLN
2	AE	224	GLN
3	AF	31	HIS
3	AF	123	GLN
3	AF	162	GLN
3	AF	170	GLN
4	AG	45	GLN
4	AG	62	GLN
4	AG	123	HIS
4	AG	129	ASN
5	AH	20	GLN
5	AH	38	GLN
5	AH	56	GLN
5	AH	141	GLN
6	AI	32	ASN
6	AI	57	GLN
6	AI	73	ASN
6	AI	94	GLN
7	AJ	96	GLN
7	AJ	97	GLN
8	AK	70	GLN
8	AK	82	HIS
9	AL	29	ASN
9	AL	34	ASN
9	AL	73	GLN
9	AL	87	GLN
10	AM	33	GLN
10	AM	78	ASN
10	AM	84	GLN
11	AN	38	ASN
11	AN	93	GLN
11	AN	116	HIS
12	AO	9	GLN
12	AO	75	HIS
13	AP	12	ASN

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Mol	Chain	Res	Type
13	AP	40	ASN
13	AP	77	ASN
14	AQ	49	HIS
15	AR	13	GLN
15	AR	37	ASN
15	AR	50	HIS
15	AR	53	HIS
16	AS	65	GLN
16	AS	76	GLN
17	AT	16	GLN
17	AT	26	GLN
19	AV	14	HIS
19	AV	56	GLN
19	AV	57	HIS
19	AV	65	ASN
19	AV	83	HIS
20	AW	26	ASN
20	AW	73	HIS
26	BD	115	GLN
26	BD	126	GLN
26	BD	143	HIS
26	BD	164	GLN
26	BD	166	GLN
26	BD	186	HIS
26	BD	198	ASN
26	BD	201	HIS
27	BE	35	GLN
27	BE	48	GLN
27	BE	60	ASN
27	BE	66	HIS
27	BE	143	ASN
27	BE	192	ASN
28	BF	8	GLN
28	BF	29	ASN
28	BF	40	GLN
28	BF	75	HIS
28	BF	169	ASN
29	BG	26	GLN
29	BG	41	GLN
29	BG	58	GLN
29	BG	79	ASN
29	BG	123	ASN

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Mol	Chain	Res	Type
30	BH	139	GLN
30	BH	147	ASN
31	BK	43	ASN
31	BK	54	GLN
31	BK	105	HIS
32	BM	45	ASN
32	BM	69	GLN
32	BM	131	GLN
32	BM	133	GLN
33	BN	3	GLN
33	BN	29	ASN
33	BN	82	ASN
33	BN	88	ASN
34	BO	70	GLN
34	BO	84	ASN
34	BO	128	HIS
35	BP	12	GLN
35	BP	13	GLN
35	BP	46	GLN
35	BP	89	ASN
35	BP	141	GLN
36	B0	11	ASN
36	B0	23	ASN
36	B0	24	GLN
36	B0	50	HIS
36	B0	61	HIS
36	B0	71	GLN
38	BR	43	GLN
38	BR	79	HIS
38	BR	90	GLN
38	BR	136	GLN
39	B1	49	HIS
39	B1	81	HIS
39	B1	104	GLN
40	B2	11	GLN
40	B2	80	GLN
40	B2	89	GLN
41	BS	102	HIS
42	BT	41	ASN
42	BT	55	ASN
42	BT	87	GLN
43	BU	43	ASN

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Mol	Chain	Res	Type
43	BU	57	GLN
44	BV	32	HIS
44	BV	34	ASN
44	BV	50	GLN
44	BV	55	HIS
44	BV	75	ASN
44	BV	118	GLN
44	BV	121	HIS
44	BV	151	HIS
45	B3	70	GLN
46	BZ	56	GLN
47	BW	65	ASN
48	BX	19	GLN
48	BX	46	ASN
48	BX	52	HIS
49	B4	60	GLN
50	B5	4	HIS
50	B5	43	HIS
51	B6	20	ASN
52	B7	8	ASN
2	CE	37	ASN
2	CE	78	GLN
2	CE	94	ASN
2	CE	95	GLN
2	CE	146	GLN
2	CE	204	ASN
2	CE	212	GLN
2	CE	224	GLN
3	CF	3	ASN
3	CF	28	GLN
3	CF	37	GLN
3	CF	69	HIS
3	CF	98	ASN
3	CF	170	GLN
3	CF	181	ASN
4	CG	42	GLN
4	CG	77	ASN
4	CG	160	GLN
4	CG	161	ASN
4	CG	201	GLN
5	CH	20	GLN
5	CH	72	GLN

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Mol	Chain	Res	Type
5	CH	73	ASN
5	CH	78	HIS
5	CH	141	GLN
6	CI	7	ASN
6	CI	18	GLN
6	CI	32	ASN
6	CI	57	GLN
6	CI	64	GLN
6	CI	94	GLN
6	CI	100	ASN
7	CJ	37	ASN
7	CJ	56	GLN
7	CJ	97	GLN
7	CJ	122	HIS
9	CL	3	GLN
9	CL	23	ASN
9	CL	31	GLN
9	CL	58	HIS
9	CL	73	GLN
9	CL	89	ASN
9	CL	124	GLN
10	CM	13	HIS
10	CM	76	ASN
10	CM	78	ASN
11	CN	26	ASN
11	CN	38	ASN
11	CN	93	GLN
11	CN	99	GLN
12	CO	9	GLN
12	CO	49	ASN
13	CP	12	ASN
13	CP	77	ASN
13	CP	101	GLN
14	CQ	49	HIS
15	CR	9	GLN
15	CR	37	ASN
15	CR	71	GLN
16	CS	76	GLN
16	CS	82	GLN
17	CT	16	GLN
18	CU	36	ASN
19	CV	23	ASN

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Mol	Chain	Res	Type
19	CV	47	HIS
19	CV	65	ASN
20	CW	16	HIS
20	CW	26	ASN
26	DD	44	ASN
26	DD	58	HIS
26	DD	87	ASN
26	DD	112	GLN
26	DD	116	GLN
26	DD	164	GLN
26	DD	166	GLN
26	DD	186	HIS
26	DD	198	ASN
26	DD	227	ASN
27	DE	55	ASN
27	DE	121	ASN
27	DE	135	HIS
27	DE	180	ASN
27	DE	192	ASN
28	DF	40	GLN
28	DF	67	GLN
28	DF	69	HIS
28	DF	75	HIS
28	DF	169	ASN
28	DF	204	ASN
29	DG	26	GLN
29	DG	40	ASN
29	DG	41	GLN
29	DG	121	ASN
29	DG	123	ASN
30	DH	139	GLN
30	DH	143	GLN
30	DH	147	ASN
30	DH	158	HIS
31	DK	11	ASN
31	DK	17	GLN
31	DK	43	ASN
31	DK	74	ASN
31	DK	105	HIS
31	DK	139	GLN
32	DM	45	ASN
32	DM	56	ASN

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Mol	Chain	Res	Type
32	DM	69	GLN
32	DM	101	HIS
32	DM	130	HIS
32	DM	131	GLN
33	DN	3	GLN
33	DN	5	GLN
33	DN	29	ASN
33	DN	82	ASN
34	DO	9	ASN
34	DO	68	GLN
34	DO	84	ASN
34	DO	128	HIS
35	DP	45	GLN
35	DP	123	HIS
36	D0	3	HIS
36	D0	13	HIS
36	D0	16	HIS
36	D0	23	ASN
36	D0	24	GLN
36	D0	61	HIS
36	D0	71	GLN
36	D0	91	GLN
37	DQ	84	GLN
38	DR	58	ASN
38	DR	84	GLN
38	DR	90	GLN
39	D1	44	ASN
39	D1	49	HIS
39	D1	71	GLN
39	D1	75	ASN
39	D1	81	HIS
39	D1	94	ASN
40	D2	11	GLN
40	D2	80	GLN
40	D2	89	GLN
41	DS	34	ASN
41	DS	40	ASN
41	DS	57	ASN
41	DS	61	ASN
41	DS	102	HIS
42	DT	31	HIS
42	DT	41	ASN

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Mol	Chain	Res	Type
42	DT	55	ASN
42	DT	87	GLN
43	DU	57	GLN
44	DV	54	HIS
44	DV	75	ASN
44	DV	121	HIS
44	DV	151	HIS
45	D3	29	GLN
45	D3	35	ASN
46	DZ	56	GLN
46	DZ	66	HIS
47	DW	38	GLN
47	DW	56	GLN
47	DW	65	ASN
48	DX	19	GLN
48	DX	32	GLN
48	DX	46	ASN
48	DX	52	HIS
50	D5	43	HIS
51	D6	26	ASN
51	D6	49	HIS
52	D7	8	ASN
52	D7	36	GLN
53	D8	31	HIS
53	D8	33	ASN
53	D8	43	GLN

4.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1516/1244 (121%)	342 (22%)	139 (9%)
1	CA	1514/1244 (121%)	320 (21%)	133 (8%)
22	AC	77/77 (100%)	15 (19%)	5 (6%)
22	AD	76/77 (98%)	28 (36%)	6 (7%)
22	CB	64/77 (83%)	15 (23%)	3 (4%)
22	CC	76/77 (98%)	15 (19%)	8 (10%)
22	CD	76/77 (98%)	11 (14%)	1 (1%)
23	A1	22/25 (88%)	10 (45%)	3 (13%)
23	C1	22/25 (88%)	9 (40%)	5 (22%)
24	BA	2884/2898 (99%)	770 (26%)	325 (11%)
24	DA	2884/2898 (99%)	790 (27%)	354 (12%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
25	BB	119/122 (97%)	25 (21%)	3 (2%)
25	DB	119/122 (97%)	22 (18%)	6 (5%)
All	All	9449/8963 (105%)	2372 (25%)	991 (10%)

All (2372) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	4	U
1	AA	5	U
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	48	C
1	AA	49	U
1	AA	50	A
1	AA	51	A
1	AA	52	G
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	76	G
1	AA	79	G
1	AA	80	G
1	AA	84	U
1	AA	85	U
1	AA	86	U
1	AA	87	A
1	AA	88	C
1	AA	90	C
1	AA	91	C
1	AA	93	U
1	AA	96	G
1	AA	101	A
1	AA	109	A
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G

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Mol	Chain	Res	Type
1	AA	129(A)	G
1	AA	130	A
1	AA	169	C
1	AA	173	U
1	AA	174	C
1	AA	182	U
1	AA	186	C
1	AA	189	U
1	AA	190	G
1	AA	191(A)	G
1	AA	191(D)	U
1	AA	191(F)	U
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	201	C
1	AA	208	U
1	AA	209	U
1	AA	210	U
1	AA	216	G
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	266	G
1	AA	267	C
1	AA	275	G
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	289	G
1	AA	306	G
1	AA	316	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	350	G

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Mol	Chain	Res	Type
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	368	U
1	AA	373	A
1	AA	389	A
1	AA	397	A
1	AA	398	C
1	AA	406	G
1	AA	410	G
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	442	C
1	AA	451	A
1	AA	452	A
1	AA	466	C
1	AA	478	A
1	AA	482	A
1	AA	484	G
1	AA	485	G
1	AA	494	U
1	AA	495	A
1	AA	496	A
1	AA	497	U
1	AA	500	G
1	AA	505	G
1	AA	508	C
1	AA	509	A
1	AA	519	C
1	AA	527	G
1	AA	530	G
1	AA	531	U

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Mol	Chain	Res	Type
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	535	A
1	AA	536	C
1	AA	548	G
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	563	A
1	AA	566	G
1	AA	567	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	581	G
1	AA	596	C
1	AA	630	G
1	AA	632	A
1	AA	633	G
1	AA	642	A
1	AA	653	A
1	AA	665	A
1	AA	687	A
1	AA	688	G
1	AA	697	U
1	AA	702	A
1	AA	704	A
1	AA	721	G
1	AA	722	A
1	AA	724	G
1	AA	731	G
1	AA	748	C
1	AA	749	C
1	AA	754	C
1	AA	777	A
1	AA	793	U
1	AA	801	U
1	AA	813	U
1	AA	815	A
1	AA	816	A

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Mol	Chain	Res	Type
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	828	A
1	AA	841	U
1	AA	842	C
1	AA	843	U
1	AA	859	A
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	874	G
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	891	U
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	940	C
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	999	U

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Mol	Chain	Res	Type
1	AA	1000	A
1	AA	1001	G
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1006	C
1	AA	1007	C
1	AA	1008	C
1	AA	1009	G
1	AA	1020	U
1	AA	1021	G
1	AA	1024	G
1	AA	1025	U
1	AA	1029	G
1	AA	1030	C
1	AA	1031	G
1	AA	1032	A
1	AA	1032(A)	G
1	AA	1033	G
1	AA	1034	G
1	AA	1036	G
1	AA	1038	C
1	AA	1039	C
1	AA	1042	G
1	AA	1050	G
1	AA	1053	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1118	C
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U

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Mol	Chain	Res	Type
1	AA	1130	A
1	AA	1131	G
1	AA	1136	U
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1146	A
1	AA	1157	A
1	AA	1158	C
1	AA	1159	U
1	AA	1160	G
1	AA	1178	G
1	AA	1181	G
1	AA	1183	A
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1215	G
1	AA	1224	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1273	G
1	AA	1278	U
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1288	A
1	AA	1297	C

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Mol	Chain	Res	Type
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C
1	AA	1337	G
1	AA	1347	G
1	AA	1348	U
1	AA	1362(A)	C
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1381	U
1	AA	1394	A
1	AA	1395	C
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1400	C
1	AA	1401	G
1	AA	1419	G
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1450	U
1	AA	1451	A
1	AA	1452	C
1	AA	1453	G
1	AA	1454	G
1	AA	1492	A
1	AA	1493	A
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1506	U

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Mol	Chain	Res	Type
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
1	AA	1532	U
1	AA	1533	C
1	AA	1534	A
1	AA	1536	C
1	AA	1540	U
1	AA	1541	U
1	AA	1542	G
22	AC	2	G
22	AC	8	U
22	AC	9	G
22	AC	10	G
22	AC	16	C
22	AC	17	C
22	AC	17(A)	C
22	AC	18	G
22	AC	20	U
22	AC	46	G
22	AC	47	U
22	AC	49	G
22	AC	59	A
22	AC	61	C
22	AC	76	A
22	AD	2	G
22	AD	6	G
22	AD	7	G
22	AD	8	U
22	AD	10	G
22	AD	13	C
22	AD	16	C
22	AD	17	C
22	AD	17(A)	C
22	AD	18	G
22	AD	19	G
22	AD	20	U
22	AD	21	A
22	AD	22	G

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Mol	Chain	Res	Type
22	AD	23	C
22	AD	46	G
22	AD	47	U
22	AD	48	C
22	AD	49	G
22	AD	52	G
22	AD	57	A
22	AD	58	A
22	AD	59	A
22	AD	61	C
22	AD	66	C
22	AD	69	C
22	AD	71	C
22	AD	73	A
23	A1	5	A
23	A1	8	A
23	A1	9	G
23	A1	14	A
23	A1	19	A
23	A1	20	A
23	A1	22	A
23	A1	23	A
23	A1	24	A
23	A1	25	A
24	BA	9	U
24	BA	13	A
24	BA	14	A
24	BA	15	G
24	BA	28	A
24	BA	34	C
24	BA	35	G
24	BA	46	C
24	BA	49	A
24	BA	50	U
24	BA	51	G
24	BA	52	A
24	BA	55	G
24	BA	60	G
24	BA	68	G
24	BA	69	C
24	BA	70	G
24	BA	71	A

Continued on next page...

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Mol	Chain	Res	Type
24	BA	72	U
24	BA	73	A
24	BA	74	A
24	BA	75	G
24	BA	85	G
24	BA	88	G
24	BA	90	U
24	BA	91	A
24	BA	93	C
24	BA	99	U
24	BA	101	G
24	BA	102	G
24	BA	105	C
24	BA	118	A
24	BA	119	A
24	BA	120	U
24	BA	121	G
24	BA	126	A
24	BA	129	C
24	BA	138	G
24	BA	140	A
24	BA	155	C
24	BA	161	U
24	BA	171	G
24	BA	174	C
24	BA	178	G
24	BA	196	A
24	BA	199	A
24	BA	200	U
24	BA	204	A
24	BA	205	G
24	BA	206	U
24	BA	214	G
24	BA	215	G
24	BA	216	A
24	BA	221	A
24	BA	222	A
24	BA	223	A
24	BA	228	A
24	BA	229	A
24	BA	232	G
24	BA	233	A

Continued on next page...

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Mol	Chain	Res	Type
24	BA	241	A
24	BA	242	G
24	BA	243	U
24	BA	248	G
24	BA	249	C
24	BA	250	G
24	BA	252	G
24	BA	261	G
24	BA	265	A
24	BA	266	G
24	BA	269	U
24	BA	270(K)	C
24	BA	270(L)	U
24	BA	270(M)	U
24	BA	270(O)	U
24	BA	270(P)	C
24	BA	270(Z)	U
24	BA	271(C)	U
24	BA	271	G
24	BA	273(D)	C
24	BA	274	G
24	BA	276	A
24	BA	278	A
24	BA	279	C
24	BA	283	A
24	BA	284	U
24	BA	289	A
24	BA	301	G
24	BA	310	A
24	BA	311	A
24	BA	312	G
24	BA	316	C
24	BA	322	A
24	BA	323	G
24	BA	324	A
24	BA	329	G
24	BA	330	A
24	BA	332	A
24	BA	333	G
24	BA	352	G
24	BA	353	G
24	BA	361	G

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Mol	Chain	Res	Type
24	BA	363	G
24	BA	363(A)	A
24	BA	363(B)	G
24	BA	363(F)	A
24	BA	364	C
24	BA	371	A
24	BA	372	G
24	BA	373	U
24	BA	386	G
24	BA	387	U
24	BA	388	G
24	BA	390	A
24	BA	391	G
24	BA	395	U
24	BA	396	G
24	BA	404	C
24	BA	405	U
24	BA	406	G
24	BA	411	G
24	BA	412	A
24	BA	422	A
24	BA	428	A
24	BA	435	C
24	BA	443	A
24	BA	444	C
24	BA	446	G
24	BA	447	A
24	BA	448	U
24	BA	449	A
24	BA	455	C
24	BA	457	A
24	BA	458	G
24	BA	459	U
24	BA	467	G
24	BA	470	A
24	BA	475	U
24	BA	479	A
24	BA	480	A
24	BA	481	G
24	BA	482	A
24	BA	503	A
24	BA	504	U

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Mol	Chain	Res	Type
24	BA	505	A
24	BA	506	G
24	BA	507	A
24	BA	508	G
24	BA	509	C
24	BA	512	G
24	BA	528	A
24	BA	529	A
24	BA	530	G
24	BA	531	C
24	BA	533	G
24	BA	563	G
24	BA	571	A
24	BA	572	A
24	BA	573	G
24	BA	574	C
24	BA	575	A
24	BA	588	U
24	BA	604	G
24	BA	607	U
24	BA	614	U
24	BA	615	G
24	BA	616	A
24	BA	617	G
24	BA	620	G
24	BA	621	A
24	BA	622	G
24	BA	627	A
24	BA	628	G
24	BA	638	G
24	BA	645	C
24	BA	646	A
24	BA	650	C
24	BA	654	A
24	BA	654(C)	G
24	BA	654(R)	C
24	BA	654(S)	G
24	BA	669	G
24	BA	670	A
24	BA	671	C
24	BA	672	C
24	BA	685	A

Continued on next page...

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Mol	Chain	Res	Type
24	BA	686	G
24	BA	687	C
24	BA	705	A
24	BA	708	C
24	BA	722	A
24	BA	728	G
24	BA	729	G
24	BA	730	C
24	BA	739	G
24	BA	747	U
24	BA	753	C
24	BA	762	U
24	BA	763	G
24	BA	775	G
24	BA	776	G
24	BA	777	A
24	BA	782	A
24	BA	784	A
24	BA	785	G
24	BA	789	A
24	BA	790	C
24	BA	791	C
24	BA	792	G
24	BA	793	A
24	BA	794	G
24	BA	800	A
24	BA	801	G
24	BA	802	A
24	BA	805	G
24	BA	806	C
24	BA	811	U
24	BA	812	C
24	BA	819	A
24	BA	827	U
24	BA	828	U
24	BA	830	G
24	BA	831	G
24	BA	832	G
24	BA	847	U
24	BA	848	G
24	BA	856	C
24	BA	857	C

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Mol	Chain	Res	Type
24	BA	860	U
24	BA	865	C
24	BA	866	A
24	BA	871	U
24	BA	878	A
24	BA	879	G
24	BA	882	G
24	BA	883	G
24	BA	884	C
24	BA	885	C
24	BA	886	C
24	BA	888	C
24	BA	889	C
24	BA	890	A
24	BA	893	C
24	BA	894	C
24	BA	896	A
24	BA	897	C
24	BA	901	A
24	BA	910	A
24	BA	917	A
24	BA	926	A
24	BA	931	G
24	BA	932	G
24	BA	933	A
24	BA	941	A
24	BA	946	G
24	BA	955	C
24	BA	957	A
24	BA	958	U
24	BA	959	A
24	BA	961	C
24	BA	962	G
24	BA	973	A
24	BA	974	G
24	BA	983	A
24	BA	989	G
24	BA	990	A
24	BA	991	C
24	BA	996	A
24	BA	997	G
24	BA	1000	A

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Mol	Chain	Res	Type
24	BA	1005	C
24	BA	1008	C
24	BA	1009	A
24	BA	1012	U
24	BA	1013	C
24	BA	1022	G
24	BA	1023	U
24	BA	1025	G
24	BA	1026	U
24	BA	1027	A
24	BA	1033	U
24	BA	1034	G
24	BA	1044	G
24	BA	1045	A
24	BA	1046	A
24	BA	1047	G
24	BA	1050	A
24	BA	1054	A
24	BA	1056	G
24	BA	1060	U
24	BA	1061	U
24	BA	1070	A
24	BA	1071	G
24	BA	1073	A
24	BA	1086	A
24	BA	1087	G
24	BA	1088	A
24	BA	1090	U
24	BA	1095	A
24	BA	1096	A
24	BA	1097	U
24	BA	1099	G
24	BA	1103	A
24	BA	1104	C
24	BA	1111	A
24	BA	1126	A
24	BA	1127	A
24	BA	1130	U
24	BA	1131	G
24	BA	1132	A
24	BA	1135	C
24	BA	1136	G

Continued on next page...

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Mol	Chain	Res	Type
24	BA	1142	U
24	BA	1142(A)	A
24	BA	1143	A
24	BA	1155	A
24	BA	1156	A
24	BA	1157	G
24	BA	1171	G
24	BA	1173	G
24	BA	1175	U
24	BA	1177	A
24	BA	1178	C
24	BA	1180	C
24	BA	1183	G
24	BA	1195	G
24	BA	1204	A
24	BA	1205	U
24	BA	1206	G
24	BA	1211	U
24	BA	1212	G
24	BA	1213	A
24	BA	1220	A
24	BA	1221	C
24	BA	1236	G
24	BA	1237	A
24	BA	1238	G
24	BA	1247	A
24	BA	1249	U
24	BA	1251	C
24	BA	1252	G
24	BA	1253	A
24	BA	1254	A
24	BA	1255	U
24	BA	1256	G
24	BA	1265	A
24	BA	1266	G
24	BA	1271	G
24	BA	1272	A
24	BA	1273	U
24	BA	1275	A
24	BA	1276	A
24	BA	1281	G
24	BA	1288	U

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Mol	Chain	Res	Type
24	BA	1289	C
24	BA	1300	U
24	BA	1301	A
24	BA	1302	A
24	BA	1303	G
24	BA	1313	U
24	BA	1314	C
24	BA	1319	G
24	BA	1320	C
24	BA	1321	A
24	BA	1325	G
24	BA	1326	U
24	BA	1329	U
24	BA	1330	C
24	BA	1332	G
24	BA	1333	C
24	BA	1341	U
24	BA	1342	A
24	BA	1343	G
24	BA	1345	C
24	BA	1349	A
24	BA	1359	A
24	BA	1360	A
24	BA	1368	G
24	BA	1379	A
24	BA	1380	G
24	BA	1384	A
24	BA	1385	G
24	BA	1391	U
24	BA	1396	U
24	BA	1397	U
24	BA	1398	C
24	BA	1406	U
24	BA	1416	G
24	BA	1420	U
24	BA	1421	G
24	BA	1427	A
24	BA	1428	C
24	BA	1429	G
24	BA	1434	A
24	BA	1436	G
24	BA	1437	C

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Mol	Chain	Res	Type
24	BA	1444(A)	A
24	BA	1449	A
24	BA	1449(A)	G
24	BA	1453	A
24	BA	1454	U
24	BA	1455	G
24	BA	1459	G
24	BA	1460	A
24	BA	1461	G
24	BA	1467	C
24	BA	1471	A
24	BA	1475	G
24	BA	1482	U
24	BA	1483	G
24	BA	1485	G
24	BA	1488	G
24	BA	1490	A
24	BA	1491	G
24	BA	1493	C
24	BA	1494	A
24	BA	1497	U
24	BA	1499	C
24	BA	1502	C
24	BA	1505	C
24	BA	1509	C
24	BA	1510	A
24	BA	1522	G
24	BA	1528	A
24	BA	1534	G
24	BA	1535	U
24	BA	1537	C
24	BA	1538	G
24	BA	1543	A
24	BA	1544	C
24	BA	1545	A
24	BA	1547	C
24	BA	1554	A
24	BA	1555	G
24	BA	1558	A
24	BA	1559	G
24	BA	1560	G
24	BA	1566	A

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Mol	Chain	Res	Type
24	BA	1567	A
24	BA	1569	A
24	BA	1578	U
24	BA	1579	A
24	BA	1585	C
24	BA	1586	A
24	BA	1588	C
24	BA	1593	G
24	BA	1595	G
24	BA	1602	U
24	BA	1603	A
24	BA	1607	C
24	BA	1608	A
24	BA	1610	A
24	BA	1611	C
24	BA	1615	C
24	BA	1616	A
24	BA	1617	C
24	BA	1618	A
24	BA	1619	G
24	BA	1635	G
24	BA	1640	C
24	BA	1647	G
24	BA	1648	C
24	BA	1653	G
24	BA	1654	A
24	BA	1667	G
24	BA	1668	A
24	BA	1669	A
24	BA	1674	G
24	BA	1675	C
24	BA	1681	G
24	BA	1682	G
24	BA	1694	C
24	BA	1695	G
24	BA	1696	G
24	BA	1698	A
24	BA	1699	G
24	BA	1700	A
24	BA	1706	U
24	BA	1728	G
24	BA	1729	A

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Mol	Chain	Res	Type
24	BA	1754	C
24	BA	1758	G
24	BA	1759	A
24	BA	1762	A
24	BA	1763	G
24	BA	1764	G
24	BA	1773	A
24	BA	1780	A
24	BA	1781	C
24	BA	1782	C
24	BA	1784	A
24	BA	1785	A
24	BA	1786	A
24	BA	1787	A
24	BA	1791	A
24	BA	1799	G
24	BA	1800	C
24	BA	1801	G
24	BA	1802	A
24	BA	1815	A
24	BA	1816	G
24	BA	1820	U
24	BA	1821	A
24	BA	1822	G
24	BA	1828	G
24	BA	1829	A
24	BA	1835	G
24	BA	1838	C
24	BA	1839	G
24	BA	1847	A
24	BA	1848	A
24	BA	1858	G
24	BA	1869	G
24	BA	1878	G
24	BA	1880	C
24	BA	1882	C
24	BA	1888	G
24	BA	1900	A
24	BA	1903	G
24	BA	1906	G
24	BA	1913	A
24	BA	1914	C

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Mol	Chain	Res	Type
24	BA	1917	U
24	BA	1919	A
24	BA	1930	G
24	BA	1931	U
24	BA	1937	A
24	BA	1938	A
24	BA	1939	U
24	BA	1940	U
24	BA	1941	C
24	BA	1943	U
24	BA	1944	U
24	BA	1948	G
24	BA	1955	U
24	BA	1956	U
24	BA	1962	C
24	BA	1963	U
24	BA	1964	G
24	BA	1965	C
24	BA	1966	A
24	BA	1967	C
24	BA	1970	A
24	BA	1971	A
24	BA	1972	A
24	BA	1980	G
24	BA	1981	A
24	BA	1982	C
24	BA	1993	U
24	BA	1996	C
24	BA	1997	G
24	BA	2019	A
24	BA	2022	U
24	BA	2023	G
24	BA	2027	G
24	BA	2031	A
24	BA	2032	G
24	BA	2033	A
24	BA	2034	U
24	BA	2035	G
24	BA	2036	C
24	BA	2043	C
24	BA	2051	A
24	BA	2052	G

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Mol	Chain	Res	Type
24	BA	2055	C
24	BA	2056	G
24	BA	2059	A
24	BA	2060	A
24	BA	2061	G
24	BA	2062	A
24	BA	2063	C
24	BA	2067	G
24	BA	2068	U
24	BA	2069	G
24	BA	2092	U
24	BA	2108	C
24	BA	2111	C
24	BA	2112	G
24	BA	2113	U
24	BA	2114	A
24	BA	2115	G
24	BA	2117	A
24	BA	2119	A
24	BA	2120	G
24	BA	2123	G
24	BA	2126	A
24	BA	2127	G
24	BA	2128	C
24	BA	2130	U
24	BA	2131	G
24	BA	2132	U
24	BA	2133	G
24	BA	2140	C
24	BA	2145	C
24	BA	2146	C
24	BA	2147	G
24	BA	2165	G
24	BA	2167	U
24	BA	2168	G
24	BA	2169	A
24	BA	2171	A
24	BA	2172	U
24	BA	2173	A
24	BA	2190	G
24	BA	2192	G
24	BA	2193	G

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Mol	Chain	Res	Type
24	BA	2197	U
24	BA	2198	A
24	BA	2210	G
24	BA	2211	G
24	BA	2212	A
24	BA	2226	C
24	BA	2238	G
24	BA	2239	G
24	BA	2249	U
24	BA	2250	G
24	BA	2251	G
24	BA	2259	G
24	BA	2266	A
24	BA	2267	A
24	BA	2275	C
24	BA	2276	G
24	BA	2283	C
24	BA	2286	A
24	BA	2288	A
24	BA	2289	G
24	BA	2297	C
24	BA	2305	A
24	BA	2306	C
24	BA	2307	G
24	BA	2308	G
24	BA	2309	A
24	BA	2312	U
24	BA	2319	G
24	BA	2320	A
24	BA	2325	G
24	BA	2334	G
24	BA	2335	A
24	BA	2336	A
24	BA	2337	G
24	BA	2345	G
24	BA	2346	A
24	BA	2347	C
24	BA	2349	G
24	BA	2350	C
24	BA	2382	G
24	BA	2383	G
24	BA	2385	C

Continued on next page...

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Mol	Chain	Res	Type
24	BA	2388	A
24	BA	2392	A
24	BA	2402	C
24	BA	2406	U
24	BA	2407	G
24	BA	2423	U
24	BA	2424	C
24	BA	2425	A
24	BA	2426	A
24	BA	2427	C
24	BA	2429	G
24	BA	2430	A
24	BA	2435	A
24	BA	2439	A
24	BA	2440	C
24	BA	2441	C
24	BA	2447	G
24	BA	2448	A
24	BA	2449	U
24	BA	2450	A
24	BA	2458	G
24	BA	2469	A
24	BA	2470	G
24	BA	2472	G
24	BA	2474	C
24	BA	2476	A
24	BA	2478	A
24	BA	2482	G
24	BA	2484	G
24	BA	2490	G
24	BA	2491	U
24	BA	2497	A
24	BA	2498	C
24	BA	2502	G
24	BA	2503	A
24	BA	2504	U
24	BA	2505	G
24	BA	2518	A
24	BA	2519	U
24	BA	2520	C
24	BA	2523	G
24	BA	2529	G

Continued on next page...

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Mol	Chain	Res	Type
24	BA	2531	A
24	BA	2534	A
24	BA	2543	G
24	BA	2552	U
24	BA	2554	U
24	BA	2566	A
24	BA	2567	G
24	BA	2573	C
24	BA	2581	G
24	BA	2582	G
24	BA	2602	A
24	BA	2603	G
24	BA	2609	U
24	BA	2610	C
24	BA	2611	U
24	BA	2612	C
24	BA	2613	U
24	BA	2614	A
24	BA	2615	U
24	BA	2629	A
24	BA	2630	G
24	BA	2646	C
24	BA	2654	A
24	BA	2655	G
24	BA	2665	A
24	BA	2673	G
24	BA	2675	A
24	BA	2682	U
24	BA	2690	C
24	BA	2691	C
24	BA	2702	U
24	BA	2703	C
24	BA	2712	U
24	BA	2712(A)	A
24	BA	2713	A
24	BA	2714	G
24	BA	2725	A
24	BA	2733	A
24	BA	2748	A
24	BA	2750	A
24	BA	2751	G
24	BA	2752	C

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Mol	Chain	Res	Type
24	BA	2754	U
24	BA	2756	U
24	BA	2757	A
24	BA	2759	G
24	BA	2762	G
24	BA	2763	G
24	BA	2765	A
24	BA	2770	G
24	BA	2777	G
24	BA	2778	A
24	BA	2779	U
24	BA	2780	G
24	BA	2781	A
24	BA	2790	A
24	BA	2791	C
24	BA	2792	G
24	BA	2797	U
24	BA	2807	G
24	BA	2808	U
24	BA	2820	A
24	BA	2821	A
24	BA	2828	C
24	BA	2833	G
24	BA	2834	G
24	BA	2835	A
24	BA	2836	U
24	BA	2849	U
24	BA	2850	A
24	BA	2860	A
24	BA	2866	U
24	BA	2867	G
24	BA	2868	A
24	BA	2872	G
24	BA	2874	C
24	BA	2879	C
24	BA	2880	C
24	BA	2894	G
24	BA	2896	C
25	BB	0	A
25	BB	3	C
25	BB	8	U
25	BB	12	C

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Mol	Chain	Res	Type
25	BB	13	A
25	BB	15	A
25	BB	16	G
25	BB	22	U
25	BB	25	A
25	BB	27	C
25	BB	35	U
25	BB	40	U
25	BB	42	C
25	BB	45	A
25	BB	52	A
25	BB	53	A
25	BB	57	A
25	BB	67	G
25	BB	73	A
25	BB	75	G
25	BB	88	C
25	BB	89	G
25	BB	96	G
25	BB	109	G
25	BB	112	G
1	CA	9	G
1	CA	13	U
1	CA	14	U
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	48	C
1	CA	49	U
1	CA	50	A
1	CA	51	A
1	CA	61	G
1	CA	65	U
1	CA	66	G
1	CA	78	G
1	CA	81	G
1	CA	84	U
1	CA	85	U
1	CA	87	A
1	CA	89	U
1	CA	90	C
1	CA	92	G

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Mol	Chain	Res	Type
1	CA	95	G
1	CA	96	G
1	CA	97	U
1	CA	101	A
1	CA	109	A
1	CA	110	C
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	122	G
1	CA	130	A
1	CA	144	G
1	CA	147	G
1	CA	163	C
1	CA	172	A
1	CA	173	U
1	CA	174	C
1	CA	190	G
1	CA	191(A)	G
1	CA	195	A
1	CA	197	A
1	CA	198	G
1	CA	201	C
1	CA	209	U
1	CA	244	U
1	CA	245	C
1	CA	247	G
1	CA	251	G
1	CA	252	U
1	CA	266	G
1	CA	267	C
1	CA	275	G
1	CA	280	C
1	CA	281	G
1	CA	289	G
1	CA	305	G
1	CA	306	G
1	CA	316	G
1	CA	328	C
1	CA	329	A
1	CA	330	C
1	CA	332	G

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Mol	Chain	Res	Type
1	CA	344	A
1	CA	345	C
1	CA	346	G
1	CA	347	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	368	U
1	CA	373	A
1	CA	388	G
1	CA	389	A
1	CA	397	A
1	CA	411	A
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	419	C
1	CA	422	C
1	CA	423	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	440	A
1	CA	451	A
1	CA	452	A
1	CA	467	G
1	CA	482	A
1	CA	484	G
1	CA	485	G
1	CA	495	A
1	CA	496	A
1	CA	497	U
1	CA	500	G
1	CA	508	C
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	517	G
1	CA	518	C
1	CA	519	C
1	CA	527	G

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Mol	Chain	Res	Type
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	536	C
1	CA	548	G
1	CA	559	A
1	CA	560	U
1	CA	561	U
1	CA	562	C
1	CA	563	A
1	CA	566	G
1	CA	567	G
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	596	C
1	CA	631	G
1	CA	642	A
1	CA	665	A
1	CA	687	A
1	CA	688	G
1	CA	701	C
1	CA	702	A
1	CA	703	G
1	CA	704	A
1	CA	721	G
1	CA	722	A
1	CA	723	U
1	CA	731	G
1	CA	749	C
1	CA	754	C
1	CA	755	G
1	CA	793	U
1	CA	794	A
1	CA	813	U
1	CA	815	A
1	CA	816	A
1	CA	817	C
1	CA	818	G

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Mol	Chain	Res	Type
1	CA	819	A
1	CA	820	U
1	CA	821	G
1	CA	828	A
1	CA	841	U
1	CA	843	U
1	CA	848	C
1	CA	859	A
1	CA	871	U
1	CA	872	A
1	CA	873	A
1	CA	874	G
1	CA	885	G
1	CA	889	A
1	CA	890	G
1	CA	891	U
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	961	U
1	CA	966	G
1	CA	968	A
1	CA	969	A
1	CA	972	C
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	982	U
1	CA	983	A
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	994	A
1	CA	1001	G
1	CA	1002	G
1	CA	1003	G

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Mol	Chain	Res	Type
1	CA	1004	A
1	CA	1005	A
1	CA	1006	C
1	CA	1008	C
1	CA	1024	G
1	CA	1025	U
1	CA	1028	C
1	CA	1028(A)	C
1	CA	1029	G
1	CA	1032(A)	G
1	CA	1036	G
1	CA	1037	C
1	CA	1040	U
1	CA	1050	G
1	CA	1054	C
1	CA	1055	A
1	CA	1064	G
1	CA	1066	C
1	CA	1068	G
1	CA	1085	U
1	CA	1086	U
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1102	A
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1127	G
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1146	A
1	CA	1151	A
1	CA	1157	A
1	CA	1158	C

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Mol	Chain	Res	Type
1	CA	1159	U
1	CA	1160	G
1	CA	1177	G
1	CA	1178	G
1	CA	1179	A
1	CA	1181	G
1	CA	1182	G
1	CA	1183	A
1	CA	1196	U
1	CA	1197	G
1	CA	1200	C
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1215	G
1	CA	1224	G
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1238	A
1	CA	1240	U
1	CA	1241	G
1	CA	1256	A
1	CA	1257	U
1	CA	1273	G
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1298	C
1	CA	1299	A
1	CA	1301	U
1	CA	1302	U
1	CA	1303	C
1	CA	1305	G
1	CA	1317	C
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G

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Mol	Chain	Res	Type
1	CA	1335	C
1	CA	1336	C
1	CA	1345	U
1	CA	1346	A
1	CA	1347	G
1	CA	1348	U
1	CA	1353	G
1	CA	1363	A
1	CA	1364	U
1	CA	1365	G
1	CA	1381	U
1	CA	1394	A
1	CA	1395	C
1	CA	1396	A
1	CA	1397	C
1	CA	1399	C
1	CA	1400	C
1	CA	1401	G
1	CA	1419	G
1	CA	1442	G
1	CA	1446	A
1	CA	1447	G
1	CA	1451	A
1	CA	1452	C
1	CA	1453	G
1	CA	1454	G
1	CA	1487	G
1	CA	1492	A
1	CA	1499	A
1	CA	1502	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1517	G
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1532	U
1	CA	1533	C
1	CA	1534	A

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Mol	Chain	Res	Type
1	CA	1535	C
1	CA	1536	C
1	CA	1538	C
1	CA	1539	C
1	CA	1542	G
22	CC	2	G
22	CC	7	G
22	CC	8	U
22	CC	9	G
22	CC	10	G
22	CC	16	C
22	CC	17(A)	C
22	CC	18	G
22	CC	20	U
22	CC	47	U
22	CC	48	C
22	CC	49	G
22	CC	58	A
22	CC	61	C
22	CC	76	A
22	CD	8	U
22	CD	10	G
22	CD	14	A
22	CD	15	G
22	CD	17	C
22	CD	18	G
22	CD	20	U
22	CD	47	U
22	CD	48	C
22	CD	49	G
22	CD	55	U
23	C1	9	G
23	C1	10	G
23	C1	11	U
23	C1	12	A
23	C1	13	A
23	C1	14	A
23	C1	19	A
23	C1	23	A
23	C1	25	A
24	DA	9	U
24	DA	13	A

Continued on next page...

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Mol	Chain	Res	Type
24	DA	14	A
24	DA	34	C
24	DA	46	C
24	DA	49	A
24	DA	50	U
24	DA	51	G
24	DA	52	A
24	DA	60	G
24	DA	61	G
24	DA	64	A
24	DA	70	G
24	DA	71	A
24	DA	72	U
24	DA	73	A
24	DA	74	A
24	DA	75	G
24	DA	83	G
24	DA	85	G
24	DA	88	G
24	DA	90	U
24	DA	91	A
24	DA	99	U
24	DA	101	G
24	DA	102	G
24	DA	103	A
24	DA	113	G
24	DA	118	A
24	DA	119	A
24	DA	120	U
24	DA	121	G
24	DA	125	G
24	DA	126	A
24	DA	138	G
24	DA	140	A
24	DA	161	U
24	DA	162	U
24	DA	163	U
24	DA	164	U
24	DA	181	A
24	DA	196	A
24	DA	197	A
24	DA	204	A

Continued on next page...

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Mol	Chain	Res	Type
24	DA	205	G
24	DA	206	U
24	DA	215	G
24	DA	216	A
24	DA	221	A
24	DA	222	A
24	DA	223	A
24	DA	227	A
24	DA	228	A
24	DA	229	A
24	DA	230	U
24	DA	232	G
24	DA	233	A
24	DA	239	U
24	DA	241	A
24	DA	242	G
24	DA	243	U
24	DA	248	G
24	DA	249	C
24	DA	250	G
24	DA	252	G
24	DA	265	A
24	DA	266	G
24	DA	270(L)	U
24	DA	270(M)	U
24	DA	270(O)	U
24	DA	270(P)	C
24	DA	271(A)	C
24	DA	271(C)	U
24	DA	271	G
24	DA	274	G
24	DA	276	A
24	DA	277	C
24	DA	278	A
24	DA	279	C
24	DA	283	A
24	DA	284	U
24	DA	285	C
24	DA	299	A
24	DA	301	G
24	DA	311	A
24	DA	312	G

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Mol	Chain	Res	Type
24	DA	317	G
24	DA	322	A
24	DA	323	G
24	DA	324	A
24	DA	329	G
24	DA	330	A
24	DA	332	A
24	DA	333	G
24	DA	346	A
24	DA	352	G
24	DA	363	G
24	DA	364	C
24	DA	371	A
24	DA	373	U
24	DA	386	G
24	DA	387	U
24	DA	388	G
24	DA	390	A
24	DA	391	G
24	DA	395	U
24	DA	396	G
24	DA	405	U
24	DA	406	G
24	DA	411	G
24	DA	412	A
24	DA	428	A
24	DA	435	C
24	DA	442	G
24	DA	443	A
24	DA	444	C
24	DA	446	G
24	DA	447	A
24	DA	448	U
24	DA	455	C
24	DA	457	A
24	DA	458	G
24	DA	470	A
24	DA	473	G
24	DA	475	U
24	DA	480	A
24	DA	481	G
24	DA	482	A

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Mol	Chain	Res	Type
24	DA	504	U
24	DA	505	A
24	DA	506	G
24	DA	507	A
24	DA	509	C
24	DA	513	A
24	DA	527	C
24	DA	528	A
24	DA	529	A
24	DA	531	C
24	DA	532	A
24	DA	533	G
24	DA	537	C
24	DA	539	G
24	DA	540	G
24	DA	546	C
24	DA	547	A
24	DA	563	G
24	DA	572	A
24	DA	573	G
24	DA	574	C
24	DA	575	A
24	DA	586	A
24	DA	588	U
24	DA	603	A
24	DA	604	G
24	DA	607	U
24	DA	609	A
24	DA	614	U
24	DA	615	G
24	DA	616	A
24	DA	617	G
24	DA	621	A
24	DA	627	A
24	DA	628	G
24	DA	638	G
24	DA	645	C
24	DA	646	A
24	DA	651	G
24	DA	654	A
24	DA	654(A)	A
24	DA	669	G

Continued on next page...

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Mol	Chain	Res	Type
24	DA	670	A
24	DA	671	C
24	DA	686	G
24	DA	687	C
24	DA	702	G
24	DA	703	U
24	DA	705	A
24	DA	717	G
24	DA	722	A
24	DA	729	G
24	DA	730	C
24	DA	739	G
24	DA	740	U
24	DA	747	U
24	DA	753	C
24	DA	762	U
24	DA	763	G
24	DA	764	A
24	DA	765	G
24	DA	775	G
24	DA	776	G
24	DA	777	A
24	DA	782	A
24	DA	784	A
24	DA	785	G
24	DA	789	A
24	DA	790	C
24	DA	791	C
24	DA	792	G
24	DA	793	A
24	DA	794	G
24	DA	800	A
24	DA	801	G
24	DA	803	U
24	DA	805	G
24	DA	806	C
24	DA	811	U
24	DA	812	C
24	DA	819	A
24	DA	827	U
24	DA	828	U
24	DA	830	G

Continued on next page...

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Mol	Chain	Res	Type
24	DA	831	G
24	DA	845	G
24	DA	846	C
24	DA	847	U
24	DA	854	G
24	DA	856	C
24	DA	857	C
24	DA	859	G
24	DA	860	U
24	DA	866	A
24	DA	871	U
24	DA	880	G
24	DA	881	G
24	DA	882	G
24	DA	884	C
24	DA	885	C
24	DA	886	C
24	DA	888	C
24	DA	889	C
24	DA	890	A
24	DA	893	C
24	DA	896	A
24	DA	897	C
24	DA	899	A
24	DA	900	A
24	DA	901	A
24	DA	906	G
24	DA	910	A
24	DA	914	C
24	DA	917	A
24	DA	930	U
24	DA	931	G
24	DA	933	A
24	DA	941	A
24	DA	945	A
24	DA	946	G
24	DA	953	A
24	DA	958	U
24	DA	959	A
24	DA	961	C
24	DA	962	G
24	DA	973	A

Continued on next page...

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Mol	Chain	Res	Type
24	DA	974	G
24	DA	975	G
24	DA	983	A
24	DA	989	G
24	DA	991	C
24	DA	996	A
24	DA	1008	C
24	DA	1009	A
24	DA	1012	U
24	DA	1013	C
24	DA	1020	A
24	DA	1021	A
24	DA	1022	G
24	DA	1023	U
24	DA	1025	G
24	DA	1026	U
24	DA	1027	A
24	DA	1033	U
24	DA	1034	G
24	DA	1044	G
24	DA	1045	A
24	DA	1046	A
24	DA	1049	C
24	DA	1050	A
24	DA	1054	A
24	DA	1055	G
24	DA	1059	G
24	DA	1060	U
24	DA	1061	U
24	DA	1065	U
24	DA	1066	U
24	DA	1067	A
24	DA	1068	G
24	DA	1070	A
24	DA	1071	G
24	DA	1076	C
24	DA	1077	A
24	DA	1078	U
24	DA	1079	C
24	DA	1082	U
24	DA	1083	U
24	DA	1084	A

Continued on next page...

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Mol	Chain	Res	Type
24	DA	1085	A
24	DA	1086	A
24	DA	1087	G
24	DA	1088	A
24	DA	1090	U
24	DA	1092	C
24	DA	1093	G
24	DA	1095	A
24	DA	1096	A
24	DA	1097	U
24	DA	1099	G
24	DA	1103	A
24	DA	1104	C
24	DA	1105	U
24	DA	1110	G
24	DA	1126	A
24	DA	1127	A
24	DA	1128	A
24	DA	1129	A
24	DA	1131	G
24	DA	1135	C
24	DA	1136	G
24	DA	1142	U
24	DA	1142(A)	A
24	DA	1143	A
24	DA	1144	G
24	DA	1155	A
24	DA	1156	A
24	DA	1157	G
24	DA	1170	G
24	DA	1173	G
24	DA	1174	A
24	DA	1175	U
24	DA	1176	G
24	DA	1178	C
24	DA	1179	C
24	DA	1180	C
24	DA	1181	C
24	DA	1195	G
24	DA	1204	A
24	DA	1205	U
24	DA	1206	G

Continued on next page...

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Mol	Chain	Res	Type
24	DA	1210	A
24	DA	1211	U
24	DA	1212	G
24	DA	1220	A
24	DA	1236	G
24	DA	1237	A
24	DA	1238	G
24	DA	1248	G
24	DA	1249	U
24	DA	1251	C
24	DA	1252	G
24	DA	1253	A
24	DA	1254	A
24	DA	1256	G
24	DA	1265	A
24	DA	1266	G
24	DA	1267	U
24	DA	1269	A
24	DA	1271	G
24	DA	1272	A
24	DA	1273	U
24	DA	1275	A
24	DA	1276	A
24	DA	1281	G
24	DA	1286	A
24	DA	1287	A
24	DA	1288	U
24	DA	1289	C
24	DA	1300	U
24	DA	1301	A
24	DA	1302	A
24	DA	1303	G
24	DA	1312	U
24	DA	1313	U
24	DA	1314	C
24	DA	1319	G
24	DA	1320	C
24	DA	1321	A
24	DA	1325	G
24	DA	1326	U
24	DA	1329	U
24	DA	1330	C

Continued on next page...

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Mol	Chain	Res	Type
24	DA	1332	G
24	DA	1333	C
24	DA	1340	U
24	DA	1341	U
24	DA	1342	A
24	DA	1343	G
24	DA	1344	G
24	DA	1345	C
24	DA	1349	A
24	DA	1359	A
24	DA	1365	A
24	DA	1368	G
24	DA	1372	U
24	DA	1379	A
24	DA	1380	G
24	DA	1384	A
24	DA	1385	G
24	DA	1386	C
24	DA	1391	U
24	DA	1395	A
24	DA	1396	U
24	DA	1397	U
24	DA	1398	C
24	DA	1411	C
24	DA	1416	G
24	DA	1419	A
24	DA	1420	U
24	DA	1421	G
24	DA	1427	A
24	DA	1428	C
24	DA	1429	G
24	DA	1444(A)	A
24	DA	1449	A
24	DA	1449(A)	G
24	DA	1453	A
24	DA	1455	G
24	DA	1458	C
24	DA	1459	G
24	DA	1461	G
24	DA	1467	C
24	DA	1471	A
24	DA	1475	G

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Mol	Chain	Res	Type
24	DA	1482	U
24	DA	1483	G
24	DA	1485	G
24	DA	1490	A
24	DA	1491	G
24	DA	1493	C
24	DA	1494	A
24	DA	1497	U
24	DA	1504	C
24	DA	1505	C
24	DA	1506	C
24	DA	1508	A
24	DA	1509	C
24	DA	1510	A
24	DA	1511	A
24	DA	1533	C
24	DA	1534	G
24	DA	1535	U
24	DA	1536	A
24	DA	1537	C
24	DA	1544	C
24	DA	1545	A
24	DA	1554	A
24	DA	1555	G
24	DA	1558	A
24	DA	1559	G
24	DA	1560	G
24	DA	1565	C
24	DA	1566	A
24	DA	1567	A
24	DA	1568	G
24	DA	1569	A
24	DA	1578	U
24	DA	1579	A
24	DA	1585	C
24	DA	1586	A
24	DA	1598	C
24	DA	1602	U
24	DA	1603	A
24	DA	1607	C
24	DA	1608	A
24	DA	1609	A

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Mol	Chain	Res	Type
24	DA	1611	C
24	DA	1615	C
24	DA	1616	A
24	DA	1617	C
24	DA	1618	A
24	DA	1619	G
24	DA	1634	A
24	DA	1635	G
24	DA	1640	C
24	DA	1647	G
24	DA	1648	C
24	DA	1654	A
24	DA	1667	G
24	DA	1668	A
24	DA	1674	G
24	DA	1675	C
24	DA	1681	G
24	DA	1682	G
24	DA	1693	U
24	DA	1694	C
24	DA	1695	G
24	DA	1698	A
24	DA	1699	G
24	DA	1700	A
24	DA	1706	U
24	DA	1707	G
24	DA	1725	G
24	DA	1729	A
24	DA	1730	U
24	DA	1731	G
24	DA	1742	C
24	DA	1743	G
24	DA	1754	C
24	DA	1758	G
24	DA	1759	A
24	DA	1763	G
24	DA	1764	G
24	DA	1773	A
24	DA	1780	A
24	DA	1781	C
24	DA	1782	C
24	DA	1785	A

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Mol	Chain	Res	Type
24	DA	1786	A
24	DA	1787	A
24	DA	1791	A
24	DA	1799	G
24	DA	1800	C
24	DA	1801	G
24	DA	1802	A
24	DA	1815	A
24	DA	1816	G
24	DA	1820	U
24	DA	1821	A
24	DA	1828	G
24	DA	1829	A
24	DA	1835	G
24	DA	1838	C
24	DA	1839	G
24	DA	1847	A
24	DA	1848	A
24	DA	1869	G
24	DA	1872	A
24	DA	1878	G
24	DA	1880	C
24	DA	1885	A
24	DA	1889	A
24	DA	1900	A
24	DA	1901	A
24	DA	1906	G
24	DA	1912	A
24	DA	1913	A
24	DA	1914	C
24	DA	1918	A
24	DA	1919	A
24	DA	1929	G
24	DA	1930	G
24	DA	1931	U
24	DA	1937	A
24	DA	1938	A
24	DA	1939	U
24	DA	1940	U
24	DA	1941	C
24	DA	1943	U
24	DA	1944	U

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Mol	Chain	Res	Type
24	DA	1945	G
24	DA	1955	U
24	DA	1956	U
24	DA	1963	U
24	DA	1964	G
24	DA	1965	C
24	DA	1966	A
24	DA	1967	C
24	DA	1969	A
24	DA	1970	A
24	DA	1971	A
24	DA	1972	A
24	DA	1981	A
24	DA	1982	C
24	DA	1991	U
24	DA	1993	U
24	DA	1996	C
24	DA	1997	G
24	DA	2020	A
24	DA	2021	C
24	DA	2022	U
24	DA	2023	G
24	DA	2031	A
24	DA	2032	G
24	DA	2033	A
24	DA	2034	U
24	DA	2035	G
24	DA	2036	C
24	DA	2043	C
24	DA	2044	C
24	DA	2051	A
24	DA	2052	G
24	DA	2055	C
24	DA	2056	G
24	DA	2059	A
24	DA	2060	A
24	DA	2061	G
24	DA	2062	A
24	DA	2063	C
24	DA	2067	G
24	DA	2068	U
24	DA	2069	G

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Mol	Chain	Res	Type
24	DA	2092	U
24	DA	2093	G
24	DA	2111	C
24	DA	2113	U
24	DA	2114	A
24	DA	2115	G
24	DA	2116	G
24	DA	2117	A
24	DA	2120	G
24	DA	2126	A
24	DA	2127	G
24	DA	2128	C
24	DA	2131	G
24	DA	2132	U
24	DA	2135	A
24	DA	2136	C
24	DA	2146	C
24	DA	2147	G
24	DA	2159	G
24	DA	2166	G
24	DA	2168	G
24	DA	2173	A
24	DA	2176	A
24	DA	2190	G
24	DA	2192	G
24	DA	2198	A
24	DA	2199	A
24	DA	2210	G
24	DA	2211	G
24	DA	2212	A
24	DA	2213	U
24	DA	2215	G
24	DA	2225	A
24	DA	2226	C
24	DA	2227	A
24	DA	2238	G
24	DA	2239	G
24	DA	2245	U
24	DA	2249	U
24	DA	2250	G
24	DA	2251	G
24	DA	2258	C

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Mol	Chain	Res	Type
24	DA	2259	G
24	DA	2266	A
24	DA	2267	A
24	DA	2273	A
24	DA	2283	C
24	DA	2286	A
24	DA	2289	G
24	DA	2290	G
24	DA	2297	C
24	DA	2307	G
24	DA	2308	G
24	DA	2309	A
24	DA	2310	A
24	DA	2311	A
24	DA	2319	G
24	DA	2320	A
24	DA	2321	G
24	DA	2325	G
24	DA	2326	C
24	DA	2334	G
24	DA	2335	A
24	DA	2336	A
24	DA	2337	G
24	DA	2345	G
24	DA	2346	A
24	DA	2347	C
24	DA	2350	C
24	DA	2383	G
24	DA	2384	G
24	DA	2385	C
24	DA	2390	U
24	DA	2392	A
24	DA	2394	C
24	DA	2402	C
24	DA	2403	C
24	DA	2406	U
24	DA	2407	G
24	DA	2424	C
24	DA	2425	A
24	DA	2426	A
24	DA	2427	C
24	DA	2429	G

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Mol	Chain	Res	Type
24	DA	2430	A
24	DA	2435	A
24	DA	2439	A
24	DA	2440	C
24	DA	2441	C
24	DA	2447	G
24	DA	2448	A
24	DA	2449	U
24	DA	2450	A
24	DA	2458	G
24	DA	2459	A
24	DA	2468	G
24	DA	2470	G
24	DA	2474	C
24	DA	2475	C
24	DA	2476	A
24	DA	2478	A
24	DA	2482	G
24	DA	2484	G
24	DA	2490	G
24	DA	2491	U
24	DA	2497	A
24	DA	2498	C
24	DA	2502	G
24	DA	2503	A
24	DA	2504	U
24	DA	2505	G
24	DA	2506	U
24	DA	2507	C
24	DA	2508	G
24	DA	2518	A
24	DA	2519	U
24	DA	2520	C
24	DA	2523	G
24	DA	2529	G
24	DA	2531	A
24	DA	2542	A
24	DA	2543	G
24	DA	2554	U
24	DA	2566	A
24	DA	2567	G
24	DA	2573	C

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Mol	Chain	Res	Type
24	DA	2574	G
24	DA	2581	G
24	DA	2582	G
24	DA	2585	U
24	DA	2586	C
24	DA	2602	A
24	DA	2609	U
24	DA	2610	C
24	DA	2611	U
24	DA	2612	C
24	DA	2613	U
24	DA	2614	A
24	DA	2615	U
24	DA	2629	A
24	DA	2632	A
24	DA	2645	G
24	DA	2646	C
24	DA	2654	A
24	DA	2655	G
24	DA	2656	U
24	DA	2658	C
24	DA	2665	A
24	DA	2673	G
24	DA	2682	U
24	DA	2690	C
24	DA	2691	C
24	DA	2702	U
24	DA	2703	C
24	DA	2712	U
24	DA	2712(A)	A
24	DA	2713	A
24	DA	2714	G
24	DA	2724	C
24	DA	2725	A
24	DA	2726	U
24	DA	2732	G
24	DA	2733	A
24	DA	2750	A
24	DA	2751	G
24	DA	2752	C
24	DA	2756	U
24	DA	2757	A

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Mol	Chain	Res	Type
24	DA	2758	A
24	DA	2761	G
24	DA	2765	A
24	DA	2766	G
24	DA	2770	G
24	DA	2777	G
24	DA	2778	A
24	DA	2779	U
24	DA	2780	G
24	DA	2781	A
24	DA	2789	C
24	DA	2790	A
24	DA	2791	C
24	DA	2792	G
24	DA	2797	U
24	DA	2798	C
24	DA	2799	A
24	DA	2807	G
24	DA	2820	A
24	DA	2821	A
24	DA	2833	G
24	DA	2834	G
24	DA	2836	U
24	DA	2849	U
24	DA	2866	U
24	DA	2867	G
24	DA	2868	A
24	DA	2872	G
24	DA	2874	C
24	DA	2879	C
24	DA	2880	C
24	DA	2892	A
25	DB	8	U
25	DB	13	A
25	DB	15	A
25	DB	21	G
25	DB	24	G
25	DB	25	A
25	DB	27	C
25	DB	35	U
25	DB	41	U
25	DB	42	C

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Mol	Chain	Res	Type
25	DB	45	A
25	DB	52	A
25	DB	56	G
25	DB	57	A
25	DB	67	G
25	DB	73	A
25	DB	81	G
25	DB	88	C
25	DB	89	G
25	DB	96	G
25	DB	109	G
25	DB	112	G
22	CB	8	U
22	CB	9	G
22	CB	10	G
22	CB	16	C
22	CB	17	C
22	CB	18	C
22	CB	19	G
22	CB	20	G
22	CB	21	U
22	CB	24	C
22	CB	29	C
22	CB	48	U
22	CB	50	G
22	CB	59	A
22	CB	60	A

All (991) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	4	U
1	AA	5	U
1	AA	7	G
1	AA	8	A
1	AA	13	U
1	AA	30	U
1	AA	31	G
1	AA	47	C
1	AA	48	C
1	AA	49	U
1	AA	50	A

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Mol	Chain	Res	Type
1	AA	51	A
1	AA	60	A
1	AA	65	U
1	AA	84	U
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	121	C
1	AA	129(A)	G
1	AA	173	U
1	AA	181	G
1	AA	197	A
1	AA	201	C
1	AA	208	U
1	AA	243	A
1	AA	244	U
1	AA	246	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	274	A
1	AA	279	A
1	AA	280	C
1	AA	305	G
1	AA	327	A
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	351	G
1	AA	366	C
1	AA	367	U
1	AA	372	C
1	AA	388	G
1	AA	410	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	481	G
1	AA	484	G
1	AA	495	A
1	AA	496	A

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Mol	Chain	Res	Type
1	AA	498	A
1	AA	508	C
1	AA	511	C
1	AA	518	C
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	535	A
1	AA	547	A
1	AA	559	A
1	AA	560	U
1	AA	562	C
1	AA	566	G
1	AA	575	G
1	AA	576	G
1	AA	595	G
1	AA	631	G
1	AA	632	A
1	AA	641	U
1	AA	653	A
1	AA	687	A
1	AA	701	C
1	AA	702	A
1	AA	717	C
1	AA	721	G
1	AA	748	C
1	AA	753	A
1	AA	792	A
1	AA	812	C
1	AA	815	A
1	AA	817	C
1	AA	819	A
1	AA	820	U
1	AA	841	U
1	AA	842	C
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	889	A
1	AA	890	G
1	AA	913	A
1	AA	934	C

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Mol	Chain	Res	Type
1	AA	960	U
1	AA	965	A
1	AA	968	A
1	AA	975	A
1	AA	982	U
1	AA	992	U
1	AA	993	G
1	AA	1004	A
1	AA	1006	C
1	AA	1019	C
1	AA	1024	G
1	AA	1033	G
1	AA	1038	C
1	AA	1049	U
1	AA	1065	U
1	AA	1067	A
1	AA	1085	U
1	AA	1101	A
1	AA	1135	U
1	AA	1137	C
1	AA	1182	G
1	AA	1201	A
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C
1	AA	1239	A
1	AA	1281	U
1	AA	1300	G
1	AA	1346	A
1	AA	1347	G
1	AA	1363	A
1	AA	1380	U
1	AA	1394	A
1	AA	1399	C
1	AA	1400	C
1	AA	1498	U
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1528	U

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Mol	Chain	Res	Type
1	AA	1529	G
1	AA	1532	U
22	AC	1	C
22	AC	16	C
22	AC	17(A)	C
22	AC	19	G
22	AC	58	A
22	AD	6	G
22	AD	7	G
22	AD	9	G
22	AD	16	C
22	AD	22	G
22	AD	60	U
23	A1	4	A
23	A1	7	G
23	A1	19	A
24	BA	13	A
24	BA	27	G
24	BA	33	U
24	BA	34	C
24	BA	49	A
24	BA	50	U
24	BA	51	G
24	BA	60	G
24	BA	70	G
24	BA	71	A
24	BA	72	U
24	BA	74	A
24	BA	83	G
24	BA	84	A
24	BA	119	A
24	BA	120	U
24	BA	125	G
24	BA	177	G
24	BA	196	A
24	BA	199	A
24	BA	204	A
24	BA	205	G
24	BA	214	G
24	BA	215	G
24	BA	221	A
24	BA	222	A

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Mol	Chain	Res	Type
24	BA	227	A
24	BA	241	A
24	BA	242	G
24	BA	249	C
24	BA	265	A
24	BA	271(B)	G
24	BA	278	A
24	BA	283	A
24	BA	301	G
24	BA	311	A
24	BA	321	G
24	BA	322	A
24	BA	323	G
24	BA	329	G
24	BA	330	A
24	BA	331	A
24	BA	332	A
24	BA	363(F)	A
24	BA	370	G
24	BA	371	A
24	BA	372	G
24	BA	386	G
24	BA	387	U
24	BA	390	A
24	BA	403	U
24	BA	404	C
24	BA	411	G
24	BA	421	U
24	BA	434	U
24	BA	442	G
24	BA	446	G
24	BA	447	A
24	BA	448	U
24	BA	454	A
24	BA	455	C
24	BA	457	A
24	BA	458	G
24	BA	474	G
24	BA	479	A
24	BA	503	A
24	BA	506	G
24	BA	508	G

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Mol	Chain	Res	Type
24	BA	527	C
24	BA	529	A
24	BA	531	C
24	BA	532	A
24	BA	571	A
24	BA	573	G
24	BA	574	C
24	BA	587	C
24	BA	603	A
24	BA	616	A
24	BA	620	G
24	BA	627	A
24	BA	637	A
24	BA	654(R)	C
24	BA	669	G
24	BA	670	A
24	BA	685	A
24	BA	686	G
24	BA	704	G
24	BA	728	G
24	BA	739	G
24	BA	746	A
24	BA	752	A
24	BA	762	U
24	BA	764	A
24	BA	774	A
24	BA	775	G
24	BA	776	G
24	BA	788	A
24	BA	789	A
24	BA	790	C
24	BA	791	C
24	BA	792	G
24	BA	800	A
24	BA	801	G
24	BA	805	G
24	BA	811	U
24	BA	829	A
24	BA	830	G
24	BA	846	C
24	BA	856	C
24	BA	858	U

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Mol	Chain	Res	Type
24	BA	859	G
24	BA	865	C
24	BA	877	U
24	BA	883	G
24	BA	913	U
24	BA	930	U
24	BA	932	G
24	BA	945	A
24	BA	957	A
24	BA	961	C
24	BA	973	A
24	BA	974(A)	C
24	BA	989	G
24	BA	1008	C
24	BA	1020	A
24	BA	1022	G
24	BA	1033	U
24	BA	1060	U
24	BA	1085	A
24	BA	1126	A
24	BA	1128	A
24	BA	1130	U
24	BA	1131	G
24	BA	1142(A)	A
24	BA	1143	A
24	BA	1156	A
24	BA	1171	G
24	BA	1204	A
24	BA	1205	U
24	BA	1210	A
24	BA	1212	G
24	BA	1220	A
24	BA	1236	G
24	BA	1237	A
24	BA	1247	A
24	BA	1248	G
24	BA	1250	G
24	BA	1251	C
24	BA	1252	G
24	BA	1253	A
24	BA	1264	G
24	BA	1265	A

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Mol	Chain	Res	Type
24	BA	1266	G
24	BA	1272	A
24	BA	1275	A
24	BA	1288	U
24	BA	1300	U
24	BA	1301	A
24	BA	1302	A
24	BA	1312	U
24	BA	1320	C
24	BA	1325	G
24	BA	1329	U
24	BA	1332	G
24	BA	1340	U
24	BA	1341	U
24	BA	1342	A
24	BA	1344	G
24	BA	1359	A
24	BA	1378	A
24	BA	1379	A
24	BA	1396	U
24	BA	1397	U
24	BA	1427	A
24	BA	1428	C
24	BA	1453	A
24	BA	1454	U
24	BA	1458	C
24	BA	1490	A
24	BA	1493	C
24	BA	1497	U
24	BA	1537	C
24	BA	1554	A
24	BA	1558	A
24	BA	1565	C
24	BA	1566	A
24	BA	1585	C
24	BA	1602	U
24	BA	1607	C
24	BA	1608	A
24	BA	1610	A
24	BA	1615	C
24	BA	1616	A
24	BA	1617	C

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Mol	Chain	Res	Type
24	BA	1618	A
24	BA	1634	A
24	BA	1647	G
24	BA	1652	A
24	BA	1653	G
24	BA	1668	A
24	BA	1674	G
24	BA	1681	G
24	BA	1693	U
24	BA	1694	C
24	BA	1698	A
24	BA	1699	G
24	BA	1706	U
24	BA	1758	G
24	BA	1762	A
24	BA	1780	A
24	BA	1781	C
24	BA	1784	A
24	BA	1786	A
24	BA	1799	G
24	BA	1800	C
24	BA	1801	G
24	BA	1815	A
24	BA	1819	A
24	BA	1820	U
24	BA	1828	G
24	BA	1838	C
24	BA	1847	A
24	BA	1918	A
24	BA	1925	C
24	BA	1929	G
24	BA	1930	G
24	BA	1936	A
24	BA	1937	A
24	BA	1938	A
24	BA	1939	U
24	BA	1940	U
24	BA	1943	U
24	BA	1944	U
24	BA	1954	G
24	BA	1955	U
24	BA	1962	C

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Mol	Chain	Res	Type
24	BA	1963	U
24	BA	1964	G
24	BA	1966	A
24	BA	1970	A
24	BA	1980	G
24	BA	1992	G
24	BA	1996	C
24	BA	2021	C
24	BA	2033	A
24	BA	2035	G
24	BA	2051	A
24	BA	2061	G
24	BA	2062	A
24	BA	2067	G
24	BA	2092	U
24	BA	2111	C
24	BA	2126	A
24	BA	2132	U
24	BA	2144	U
24	BA	2145	C
24	BA	2146	C
24	BA	2166	G
24	BA	2191	G
24	BA	2197	U
24	BA	2210	G
24	BA	2211	G
24	BA	2225	A
24	BA	2238	G
24	BA	2249	U
24	BA	2250	G
24	BA	2258	C
24	BA	2266	A
24	BA	2275	C
24	BA	2282	G
24	BA	2286	A
24	BA	2288	A
24	BA	2296	U
24	BA	2311	A
24	BA	2319	G
24	BA	2334	G
24	BA	2336	A
24	BA	2344	U

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Mol	Chain	Res	Type
24	BA	2345	G
24	BA	2384	G
24	BA	2391	G
24	BA	2406	U
24	BA	2422	A
24	BA	2423	U
24	BA	2425	A
24	BA	2426	A
24	BA	2439	A
24	BA	2447	G
24	BA	2448	A
24	BA	2449	U
24	BA	2458	G
24	BA	2481	G
24	BA	2490	G
24	BA	2497	A
24	BA	2503	A
24	BA	2517	C
24	BA	2518	A
24	BA	2519	U
24	BA	2566	A
24	BA	2572	A
24	BA	2581	G
24	BA	2602	A
24	BA	2609	U
24	BA	2610	C
24	BA	2613	U
24	BA	2614	A
24	BA	2645	G
24	BA	2681	C
24	BA	2689	U
24	BA	2690	C
24	BA	2713	A
24	BA	2756	U
24	BA	2776	A
24	BA	2778	A
24	BA	2780	G
24	BA	2791	C
24	BA	2820	A
24	BA	2832	U
24	BA	2835	A
24	BA	2848	G

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Mol	Chain	Res	Type
24	BA	2849	U
24	BA	2859	G
24	BA	2867	G
24	BA	2873	A
24	BA	2879	C
25	BB	12	C
25	BB	56	G
25	BB	66	A
1	CA	7	G
1	CA	8	A
1	CA	13	U
1	CA	30	U
1	CA	31	G
1	CA	47	C
1	CA	48	C
1	CA	49	U
1	CA	50	A
1	CA	51	A
1	CA	60	A
1	CA	64	G
1	CA	65	U
1	CA	89	U
1	CA	109	A
1	CA	115	G
1	CA	119	A
1	CA	121	C
1	CA	173	U
1	CA	197	A
1	CA	243	A
1	CA	244	U
1	CA	246	A
1	CA	250	A
1	CA	251	G
1	CA	266	G
1	CA	274	A
1	CA	279	A
1	CA	280	C
1	CA	305	G
1	CA	328	C
1	CA	329	A
1	CA	351	G
1	CA	366	C

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Mol	Chain	Res	Type
1	CA	367	U
1	CA	388	G
1	CA	410	G
1	CA	412	A
1	CA	428	G
1	CA	429	U
1	CA	451	A
1	CA	481	G
1	CA	484	G
1	CA	495	A
1	CA	498	A
1	CA	508	C
1	CA	509	A
1	CA	511	C
1	CA	517	G
1	CA	518	C
1	CA	530	G
1	CA	531	U
1	CA	533	A
1	CA	535	A
1	CA	547	A
1	CA	559	A
1	CA	560	U
1	CA	562	C
1	CA	566	G
1	CA	575	G
1	CA	576	G
1	CA	595	G
1	CA	641	U
1	CA	653	A
1	CA	687	A
1	CA	701	C
1	CA	702	A
1	CA	703	G
1	CA	717	C
1	CA	721	G
1	CA	733	A
1	CA	748	C
1	CA	753	A
1	CA	792	A
1	CA	793	U
1	CA	812	C

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Mol	Chain	Res	Type
1	CA	815	A
1	CA	817	C
1	CA	818	G
1	CA	819	A
1	CA	820	U
1	CA	871	U
1	CA	872	A
1	CA	873	A
1	CA	884	U
1	CA	889	A
1	CA	890	G
1	CA	913	A
1	CA	934	C
1	CA	960	U
1	CA	965	A
1	CA	968	A
1	CA	975	A
1	CA	976	G
1	CA	982	U
1	CA	992	U
1	CA	1027	C
1	CA	1049	U
1	CA	1065	U
1	CA	1067	A
1	CA	1085	U
1	CA	1094	G
1	CA	1101	A
1	CA	1139	G
1	CA	1177	G
1	CA	1182	G
1	CA	1200	C
1	CA	1214	C
1	CA	1224	G
1	CA	1226	C
1	CA	1239	A
1	CA	1285	A
1	CA	1297	C
1	CA	1300	G
1	CA	1345	U
1	CA	1347	G
1	CA	1363	A
1	CA	1380	U

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Mol	Chain	Res	Type
1	CA	1394	A
1	CA	1396	A
1	CA	1399	C
1	CA	1400	C
1	CA	1450	U
1	CA	1452	C
1	CA	1498	U
1	CA	1502	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1528	U
1	CA	1529	G
1	CA	1535	C
22	CC	7	G
22	CC	9	G
22	CC	16	C
22	CC	17(A)	C
22	CC	19	G
22	CC	47	U
22	CC	58	A
22	CC	60	U
22	CD	9	G
23	C1	9	G
23	C1	10	G
23	C1	11	U
23	C1	13	A
23	C1	18	G
24	DA	13	A
24	DA	33	U
24	DA	49	A
24	DA	50	U
24	DA	51	G
24	DA	60	G
24	DA	63	U
24	DA	70	G
24	DA	71	A
24	DA	72	U
24	DA	74	A
24	DA	84	A
24	DA	90	U

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Mol	Chain	Res	Type
24	DA	99	U
24	DA	102	G
24	DA	119	A
24	DA	120	U
24	DA	125	G
24	DA	139	G
24	DA	177	G
24	DA	196	A
24	DA	199	A
24	DA	204	A
24	DA	205	G
24	DA	215	G
24	DA	221	A
24	DA	222	A
24	DA	227	A
24	DA	228	A
24	DA	229	A
24	DA	232	G
24	DA	241	A
24	DA	242	G
24	DA	249	C
24	DA	271(B)	G
24	DA	271(C)	U
24	DA	275	G
24	DA	278	A
24	DA	283	A
24	DA	301	G
24	DA	311	A
24	DA	321	G
24	DA	322	A
24	DA	323	G
24	DA	329	G
24	DA	330	A
24	DA	331	A
24	DA	332	A
24	DA	345	A
24	DA	352	G
24	DA	363(F)	A
24	DA	370	G
24	DA	371	A
24	DA	372	G
24	DA	385	C

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Mol	Chain	Res	Type
24	DA	386	G
24	DA	387	U
24	DA	390	A
24	DA	403	U
24	DA	404	C
24	DA	405	U
24	DA	411	G
24	DA	421	U
24	DA	434	U
24	DA	442	G
24	DA	446	G
24	DA	447	A
24	DA	448	U
24	DA	454	A
24	DA	455	C
24	DA	457	A
24	DA	458	G
24	DA	474	G
24	DA	479	A
24	DA	481	G
24	DA	503	A
24	DA	506	G
24	DA	512	G
24	DA	527	C
24	DA	528	A
24	DA	529	A
24	DA	531	C
24	DA	532	A
24	DA	571	A
24	DA	573	G
24	DA	574	C
24	DA	587	C
24	DA	603	A
24	DA	614	U
24	DA	616	A
24	DA	620	G
24	DA	627	A
24	DA	637	A
24	DA	653	A
24	DA	669	G
24	DA	670	A
24	DA	685	A

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Mol	Chain	Res	Type
24	DA	686	G
24	DA	704	G
24	DA	726	G
24	DA	728	G
24	DA	739	G
24	DA	752	A
24	DA	762	U
24	DA	764	A
24	DA	775	G
24	DA	776	G
24	DA	788	A
24	DA	789	A
24	DA	790	C
24	DA	791	C
24	DA	792	G
24	DA	793	A
24	DA	800	A
24	DA	801	G
24	DA	805	G
24	DA	811	U
24	DA	829	A
24	DA	830	G
24	DA	846	C
24	DA	856	C
24	DA	858	U
24	DA	859	G
24	DA	865	C
24	DA	888	C
24	DA	896	A
24	DA	913	U
24	DA	930	U
24	DA	932	G
24	DA	957	A
24	DA	961	C
24	DA	973	A
24	DA	974	G
24	DA	974(A)	C
24	DA	989	G
24	DA	995	C
24	DA	1008	C
24	DA	1011	G
24	DA	1020	A

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Mol	Chain	Res	Type
24	DA	1022	G
24	DA	1025	G
24	DA	1026	U
24	DA	1033	U
24	DA	1045	A
24	DA	1078	U
24	DA	1085	A
24	DA	1126	A
24	DA	1128	A
24	DA	1130	U
24	DA	1131	G
24	DA	1142(A)	A
24	DA	1143	A
24	DA	1156	A
24	DA	1175	U
24	DA	1178	C
24	DA	1204	A
24	DA	1205	U
24	DA	1210	A
24	DA	1211	U
24	DA	1212	G
24	DA	1236	G
24	DA	1237	A
24	DA	1247	A
24	DA	1248	G
24	DA	1250	G
24	DA	1251	C
24	DA	1252	G
24	DA	1253	A
24	DA	1266	G
24	DA	1272	A
24	DA	1275	A
24	DA	1286	A
24	DA	1288	U
24	DA	1300	U
24	DA	1301	A
24	DA	1302	A
24	DA	1311	G
24	DA	1312	U
24	DA	1320	C
24	DA	1324	G
24	DA	1325	G

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Mol	Chain	Res	Type
24	DA	1329	U
24	DA	1332	G
24	DA	1340	U
24	DA	1341	U
24	DA	1342	A
24	DA	1344	G
24	DA	1378	A
24	DA	1385	G
24	DA	1396	U
24	DA	1397	U
24	DA	1427	A
24	DA	1428	C
24	DA	1451	C
24	DA	1453	A
24	DA	1454	U
24	DA	1458	C
24	DA	1460	A
24	DA	1490	A
24	DA	1493	C
24	DA	1497	U
24	DA	1543	A
24	DA	1554	A
24	DA	1558	A
24	DA	1559	G
24	DA	1565	C
24	DA	1566	A
24	DA	1567	A
24	DA	1602	U
24	DA	1607	C
24	DA	1608	A
24	DA	1609	A
24	DA	1610	A
24	DA	1615	C
24	DA	1616	A
24	DA	1617	C
24	DA	1618	A
24	DA	1634	A
24	DA	1647	G
24	DA	1653	G
24	DA	1668	A
24	DA	1674	G
24	DA	1681	G

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Mol	Chain	Res	Type
24	DA	1693	U
24	DA	1694	C
24	DA	1698	A
24	DA	1699	G
24	DA	1706	U
24	DA	1758	G
24	DA	1762	A
24	DA	1780	A
24	DA	1781	C
24	DA	1784	A
24	DA	1786	A
24	DA	1799	G
24	DA	1800	C
24	DA	1801	G
24	DA	1815	A
24	DA	1818	U
24	DA	1819	A
24	DA	1820	U
24	DA	1828	G
24	DA	1838	C
24	DA	1900	A
24	DA	1912	A
24	DA	1913	A
24	DA	1918	A
24	DA	1929	G
24	DA	1930	G
24	DA	1936	A
24	DA	1937	A
24	DA	1938	A
24	DA	1939	U
24	DA	1940	U
24	DA	1943	U
24	DA	1944	U
24	DA	1954	G
24	DA	1955	U
24	DA	1962	C
24	DA	1964	G
24	DA	1966	A
24	DA	1970	A
24	DA	1980	G
24	DA	1992	G
24	DA	1996	C

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Mol	Chain	Res	Type
24	DA	2021	C
24	DA	2022	U
24	DA	2032	G
24	DA	2033	A
24	DA	2035	G
24	DA	2051	A
24	DA	2060	A
24	DA	2061	G
24	DA	2062	A
24	DA	2067	G
24	DA	2092	U
24	DA	2110	G
24	DA	2126	A
24	DA	2158	A
24	DA	2197	U
24	DA	2198	A
24	DA	2210	G
24	DA	2225	A
24	DA	2238	G
24	DA	2249	U
24	DA	2250	G
24	DA	2258	C
24	DA	2266	A
24	DA	2275	C
24	DA	2282	G
24	DA	2286	A
24	DA	2288	A
24	DA	2296	U
24	DA	2307	G
24	DA	2308	G
24	DA	2311	A
24	DA	2318	G
24	DA	2319	G
24	DA	2320	A
24	DA	2334	G
24	DA	2336	A
24	DA	2344	U
24	DA	2345	G
24	DA	2346	A
24	DA	2384	G
24	DA	2391	G
24	DA	2405	G

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Mol	Chain	Res	Type
24	DA	2423	U
24	DA	2425	A
24	DA	2426	A
24	DA	2439	A
24	DA	2447	G
24	DA	2448	A
24	DA	2449	U
24	DA	2458	G
24	DA	2468	G
24	DA	2481	G
24	DA	2490	G
24	DA	2497	A
24	DA	2503	A
24	DA	2506	U
24	DA	2507	C
24	DA	2517	C
24	DA	2518	A
24	DA	2519	U
24	DA	2566	A
24	DA	2572	A
24	DA	2581	G
24	DA	2609	U
24	DA	2610	C
24	DA	2613	U
24	DA	2614	A
24	DA	2645	G
24	DA	2654	A
24	DA	2689	U
24	DA	2690	C
24	DA	2712	U
24	DA	2725	A
24	DA	2732	G
24	DA	2750	A
24	DA	2751	G
24	DA	2756	U
24	DA	2776	A
24	DA	2778	A
24	DA	2780	G
24	DA	2791	C
24	DA	2820	A
24	DA	2832	U
24	DA	2835	A

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Mol	Chain	Res	Type
24	DA	2848	G
24	DA	2866	U
24	DA	2867	G
24	DA	2873	A
24	DA	2879	C
25	DB	12	C
25	DB	14	U
25	DB	24	G
25	DB	34	U
25	DB	56	G
25	DB	66	A
22	CB	18	C
22	CB	20	G
22	CB	49	C

4.4 Non-standard residues in protein, DNA, RNA chains (i)

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

4.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

4.6 Ligand geometry (i)

Of 2659 ligands modelled in this entry, 2659 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

4.7 Other polymers (i)

There are no such residues in this entry.

4.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

5 Fit of model and data

5.1 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, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	AA	1244/1244 (100%)	-0.33	10 (0%) 82 60	66, 115, 203, 251	0
1	CA	1242/1244 (99%)	-0.28	17 (1%) 73 48	47, 111, 202, 247	0
2	AE	236/256 (92%)	-0.11	3 (1%) 75 50	111, 152, 183, 188	0
2	CE	237/256 (92%)	-0.10	0 100 100	108, 138, 175, 185	0
3	AF	206/239 (86%)	0.23	2 (0%) 79 56	116, 134, 171, 178	0
3	CF	205/239 (85%)	-0.19	1 (0%) 87 68	98, 128, 150, 160	0
4	AG	208/209 (99%)	0.34	8 (3%) 44 24	72, 106, 128, 137	0
4	CG	208/209 (99%)	0.15	3 (1%) 73 48	95, 116, 136, 143	0
5	AH	154/162 (95%)	0.02	0 100 100	89, 109, 139, 163	0
5	CH	151/162 (93%)	-0.08	0 100 100	84, 105, 132, 157	0
6	AI	101/101 (100%)	-0.15	0 100 100	85, 106, 121, 138	0
6	CI	101/101 (100%)	0.32	3 (2%) 52 30	80, 109, 119, 139	0
7	AJ	155/156 (99%)	-0.18	1 (0%) 85 65	105, 129, 150, 160	0
7	CJ	155/156 (99%)	-0.05	0 100 100	98, 121, 141, 157	0
8	AK	138/138 (100%)	-0.24	0 100 100	91, 114, 126, 131	0
8	CK	138/138 (100%)	-0.21	0 100 100	83, 109, 121, 123	0
9	AL	128/128 (100%)	-0.22	0 100 100	109, 150, 168, 173	0
9	CL	127/128 (99%)	-0.17	0 100 100	98, 138, 160, 169	0
10	AM	99/105 (94%)	-0.08	0 100 100	118, 152, 168, 172	0
10	CM	99/105 (94%)	-0.21	0 100 100	111, 147, 168, 175	0
11	AN	121/129 (93%)	-0.10	0 100 100	88, 110, 140, 155	0
11	CN	119/129 (92%)	0.04	2 (1%) 69 43	79, 102, 128, 146	0
12	AO	125/132 (94%)	0.06	0 100 100	77, 96, 115, 148	0
12	CO	125/132 (94%)	-0.05	1 (0%) 82 60	72, 90, 115, 150	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AP	118/126 (93%)	0.15	1 (0%) 82 60	114, 146, 169, 172	0
13	CP	121/126 (96%)	0.32	7 (5%) 29 17	95, 132, 150, 153	0
14	AQ	60/61 (98%)	-0.04	0 100 100	119, 134, 148, 152	0
14	CQ	60/61 (98%)	-0.26	0 100 100	97, 116, 127, 129	0
15	AR	88/89 (98%)	-0.20	1 (1%) 78 54	80, 102, 125, 136	0
15	CR	88/89 (98%)	-0.04	1 (1%) 78 54	77, 103, 122, 127	0
16	AS	84/88 (95%)	-0.12	0 100 100	86, 97, 118, 150	0
16	CS	84/88 (95%)	-0.15	1 (1%) 76 52	95, 112, 140, 156	0
17	AT	100/105 (95%)	0.06	1 (1%) 79 56	81, 104, 130, 155	0
17	CT	100/105 (95%)	0.35	3 (3%) 52 30	82, 109, 125, 144	0
18	AU	71/88 (80%)	-0.33	0 100 100	87, 107, 135, 141	0
18	CU	70/88 (79%)	0.10	0 100 100	84, 107, 125, 125	0
19	AV	82/93 (88%)	0.30	3 (3%) 45 25	130, 159, 169, 170	0
19	CV	84/93 (90%)	0.23	0 100 100	118, 134, 149, 152	0
20	AW	99/106 (93%)	-0.05	0 100 100	88, 106, 149, 157	0
20	CW	99/106 (93%)	-0.11	0 100 100	96, 119, 148, 155	0
21	AX	25/27 (92%)	-0.07	0 100 100	143, 151, 161, 165	0
21	CX	25/27 (92%)	-0.32	0 100 100	101, 131, 147, 158	0
22	AC	77/77 (100%)	-0.43	0 100 100	76, 119, 153, 162	0
22	AD	77/77 (100%)	-0.21	0 100 100	111, 217, 236, 246	0
22	CB	65/77 (84%)	0.24	1 (1%) 72 47	133, 199, 226, 234	0
22	CC	77/77 (100%)	-0.34	1 (1%) 75 50	68, 99, 133, 139	0
22	CD	77/77 (100%)	0.11	1 (1%) 75 50	105, 210, 222, 228	0
23	A1	23/25 (92%)	0.36	1 (4%) 40 21	101, 193, 235, 240	0
23	C1	23/25 (92%)	0.11	0 100 100	87, 180, 239, 241	0
24	BA	2885/2898 (99%)	-0.38	9 (0%) 90 76	53, 90, 211, 243	0
24	DA	2886/2898 (99%)	-0.44	24 (0%) 82 60	35, 74, 192, 231	0
25	BB	120/122 (98%)	-0.43	0 100 100	103, 144, 169, 214	0
25	DB	120/122 (98%)	-0.43	1 (0%) 82 60	77, 106, 126, 157	0
26	BD	272/276 (98%)	0.16	2 (0%) 84 63	50, 78, 97, 112	0
26	DD	272/276 (98%)	0.16	5 (1%) 67 42	44, 63, 84, 100	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
27	BE	205/206 (99%)	0.20	8 (3%) 43 23	60, 93, 138, 151	0
27	DE	205/206 (99%)	-0.06	0 100 100	48, 84, 123, 139	0
28	BF	208/210 (99%)	0.08	2 (0%) 79 56	62, 98, 158, 176	0
28	DF	202/210 (96%)	-0.28	3 (1%) 72 47	40, 74, 112, 125	0
29	BG	181/182 (99%)	0.10	1 (0%) 85 65	120, 144, 163, 175	0
29	DG	181/182 (99%)	0.35	8 (4%) 39 21	86, 109, 136, 146	0
30	BH	170/180 (94%)	0.26	3 (1%) 67 42	121, 169, 203, 209	0
30	DH	170/180 (94%)	0.05	2 (1%) 76 52	75, 101, 123, 131	0
31	BK	146/148 (98%)	0.08	0 100 100	82, 122, 143, 151	0
31	DK	146/148 (98%)	0.12	3 (2%) 63 38	68, 112, 127, 142	0
32	BM	138/140 (98%)	-0.02	0 100 100	80, 105, 124, 129	0
32	DM	138/140 (98%)	-0.14	3 (2%) 62 37	66, 84, 116, 123	0
33	BN	122/122 (100%)	0.10	0 100 100	69, 86, 99, 105	0
33	DN	122/122 (100%)	-0.19	0 100 100	50, 77, 90, 95	0
34	BO	150/150 (100%)	-0.29	1 (0%) 84 63	67, 106, 135, 158	0
34	DO	150/150 (100%)	-0.13	0 100 100	45, 88, 114, 138	0
35	BP	141/141 (100%)	0.05	3 (2%) 63 38	82, 105, 134, 178	0
35	DP	141/141 (100%)	0.08	3 (2%) 63 38	62, 86, 107, 131	0
36	B0	117/118 (99%)	-0.08	3 (2%) 57 33	54, 80, 102, 119	0
36	D0	118/118 (100%)	-0.08	0 100 100	54, 80, 98, 107	0
37	BQ	111/112 (99%)	-0.44	0 100 100	113, 132, 155, 167	0
37	DQ	111/112 (99%)	-0.09	1 (0%) 81 58	82, 97, 130, 139	0
38	BR	137/146 (93%)	0.19	5 (3%) 46 25	77, 93, 148, 177	0
38	DR	137/146 (93%)	0.03	3 (2%) 62 37	71, 89, 136, 157	0
39	B1	117/118 (99%)	-0.20	2 (1%) 69 43	68, 94, 135, 155	0
39	D1	117/118 (99%)	-0.30	0 100 100	53, 69, 104, 130	0
40	B2	101/101 (100%)	0.12	0 100 100	64, 118, 132, 136	0
40	D2	101/101 (100%)	0.12	3 (2%) 52 30	52, 97, 117, 126	0
41	BS	113/113 (100%)	-0.06	0 100 100	67, 80, 101, 141	0
41	DS	113/113 (100%)	-0.21	3 (2%) 56 33	53, 70, 100, 142	0
42	BT	92/96 (95%)	0.10	2 (2%) 62 37	73, 89, 111, 121	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
42	DT	92/96 (95%)	-0.07	3 (3%) 49 28	54, 70, 91, 103	0
43	BU	102/110 (92%)	0.56	7 (6%) 23 14	79, 106, 161, 172	0
43	DU	102/110 (92%)	0.07	4 (3%) 43 23	67, 93, 134, 144	0
44	BV	176/206 (85%)	-0.01	0 100 100	113, 142, 185, 190	0
44	DV	172/206 (83%)	0.44	8 (4%) 36 20	90, 126, 184, 190	0
45	B3	80/85 (94%)	-0.57	0 100 100	84, 99, 113, 119	0
45	D3	77/85 (90%)	-0.32	1 (1%) 75 50	67, 81, 100, 115	0
46	BZ	97/98 (98%)	0.29	6 (6%) 26 16	67, 91, 149, 174	0
46	DZ	97/98 (98%)	0.08	4 (4%) 41 22	48, 78, 141, 158	0
47	BW	69/72 (95%)	0.05	1 (1%) 73 48	80, 105, 125, 140	0
47	DW	69/72 (95%)	-0.06	0 100 100	60, 83, 105, 122	0
48	BX	59/60 (98%)	-0.31	0 100 100	83, 107, 129, 134	0
48	DX	59/60 (98%)	-0.06	0 100 100	64, 84, 110, 124	0
49	B4	71/71 (100%)	0.61	6 (8%) 16 11	164, 193, 208, 211	0
49	D4	71/71 (100%)	0.70	2 (2%) 55 32	128, 160, 185, 188	0
50	B5	59/60 (98%)	0.40	5 (8%) 16 11	56, 91, 168, 177	0
50	D5	59/60 (98%)	0.00	2 (3%) 48 27	46, 86, 186, 190	0
51	B6	48/54 (88%)	-0.23	0 100 100	138, 153, 169, 175	0
51	D6	49/54 (90%)	0.48	1 (2%) 65 39	132, 146, 156, 162	0
52	B7	49/49 (100%)	-0.18	1 (2%) 65 39	51, 68, 116, 148	0
52	D7	49/49 (100%)	-0.24	1 (2%) 65 39	40, 49, 109, 135	0
53	B8	64/65 (98%)	-0.25	0 100 100	77, 93, 114, 152	0
53	D8	64/65 (98%)	-0.11	0 100 100	53, 72, 100, 127	0
All	All	20489/21017 (97%)	-0.15	228 (1%) 78 54	35, 102, 179, 251	0

All (228) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
50	B5	2	ALA	6.7
40	D2	36	PRO	5.7
13	CP	119	GLY	5.5
1	CA	345	C	5.0
24	BA	2798	C	4.7
24	DA	2804	C	4.7

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Mol	Chain	Res	Type	RSRZ
24	BA	1176	G	4.7
41	DS	113	LYS	4.5
2	AE	214	ILE	4.5
24	DA	2805	G	4.5
30	BH	50	VAL	4.2
38	DR	11	GLU	4.1
17	CT	98	LEU	4.0
24	DA	654(U)	A	4.0
22	CB	5	G	4.0
24	DA	2798	C	3.9
44	DV	116	VAL	3.8
4	AG	161	ASN	3.8
42	BT	92	LEU	3.7
4	CG	24	GLU	3.7
27	BE	149	ARG	3.7
28	BF	131	GLY	3.7
1	CA	344	A	3.6
24	BA	2799	A	3.6
27	BE	70	ALA	3.5
1	CA	1394	A	3.5
29	DG	84	LYS	3.5
42	DT	13	LEU	3.5
29	DG	164	GLU	3.5
1	AA	88	C	3.5
1	CA	86	U	3.4
13	CP	121	LYS	3.4
43	BU	98	VAL	3.4
1	CA	1539	C	3.4
42	BT	91	ALA	3.4
38	DR	1	MET	3.3
24	BA	2797	U	3.3
44	DV	150	LEU	3.3
24	DA	1914	C	3.3
40	D2	37	VAL	3.3
6	CI	50	TYR	3.3
28	DF	131	GLY	3.2
4	AG	164	ALA	3.2
19	AV	82	GLY	3.2
44	DV	172	ALA	3.2
4	AG	35	ARG	3.2
35	BP	91	GLU	3.2
1	CA	1542	G	3.2

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Mol	Chain	Res	Type	RSRZ
26	DD	26	LYS	3.2
22	CC	1	C	3.1
35	BP	81	VAL	3.1
1	AA	788	U	3.1
43	BU	77	PRO	3.1
4	AG	166	LYS	3.1
1	AA	85	U	3.0
42	DT	92	LEU	3.0
50	D5	57	VAL	3.0
35	DP	83	MET	3.0
44	DV	60	GLU	3.0
24	DA	2797	U	3.0
29	BG	39	ILE	3.0
24	BA	1177	A	3.0
36	B0	102	GLU	2.9
24	DA	1536	A	2.9
3	AF	101	LEU	2.9
17	CT	101	ARG	2.9
1	CA	1538	C	2.9
27	BE	54	GLN	2.9
39	B1	91	ASP	2.8
38	BR	105	LEU	2.8
4	AG	179	GLU	2.8
38	BR	2	ASN	2.8
44	DV	146	ILE	2.8
47	BW	43	GLN	2.8
44	DV	88	PHE	2.8
28	BF	6	VAL	2.8
3	CF	169	ALA	2.8
29	DG	80	PHE	2.8
49	B4	42	PHE	2.8
13	AP	78	ILE	2.8
46	BZ	80	LEU	2.8
27	BE	150	VAL	2.8
50	B5	3	LYS	2.8
4	AG	168	ARG	2.8
27	BE	151	TYR	2.8
25	DB	1	U	2.8
43	BU	29	GLU	2.7
1	CA	1541	U	2.7
50	B5	58	LEU	2.7
43	DU	63	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
37	DQ	111	GLU	2.7
1	CA	84	U	2.7
1	AA	1538	C	2.7
32	DM	134	ARG	2.7
46	DZ	79	GLY	2.7
35	DP	91	GLU	2.7
49	B4	27	THR	2.6
1	CA	1537	U	2.6
44	DV	163	LEU	2.6
26	DD	119	ALA	2.6
38	BR	104	ASN	2.6
43	BU	103	GLY	2.6
46	DZ	98	LEU	2.6
46	DZ	27	GLU	2.6
24	DA	654(T)	A	2.6
45	D3	8	GLY	2.6
24	DA	645	C	2.6
24	DA	2799	A	2.6
1	AA	86	U	2.6
30	DH	34	GLU	2.5
31	DK	122	GLU	2.5
50	B5	54	GLY	2.5
22	CD	1	C	2.5
4	CG	50	ARG	2.5
26	DD	2	ALA	2.5
17	CT	96	GLU	2.5
44	DV	141	VAL	2.5
1	CA	1511	G	2.5
30	BH	72	ILE	2.5
23	A1	22	A	2.5
46	BZ	94	LEU	2.5
50	B5	60	VAL	2.5
24	DA	163	U	2.5
49	B4	24	THR	2.5
30	DH	52	VAL	2.5
16	CS	54	GLU	2.4
27	BE	69	LYS	2.4
29	DG	35	GLU	2.4
31	DK	146	ALA	2.4
1	CA	1540	U	2.4
1	AA	412	A	2.4
51	D6	7	ILE	2.4

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Mol	Chain	Res	Type	RSRZ
49	B4	40	HIS	2.4
17	AT	101	ARG	2.4
24	DA	1836	C	2.4
1	AA	1493	A	2.4
38	BR	1	MET	2.4
24	DA	2795	G	2.4
46	BZ	3	LYS	2.4
39	B1	90	VAL	2.4
43	DU	50	ARG	2.4
41	DS	112	GLY	2.4
24	DA	1830	C	2.4
38	BR	11	GLU	2.4
36	B0	107	ASP	2.4
46	BZ	77	ALA	2.4
13	CP	111	LYS	2.4
24	DA	2062	A	2.3
6	CI	90	VAL	2.3
26	BD	40	THR	2.3
1	CA	769	G	2.3
19	AV	85	LYS	2.3
26	DD	34	VAL	2.3
43	BU	45	VAL	2.3
24	DA	270(L)	U	2.3
29	DG	72	ARG	2.3
1	AA	806	C	2.3
13	CP	67	GLU	2.3
1	CA	5	U	2.3
52	B7	49	ARG	2.3
32	DM	138	LEU	2.3
43	DU	99	CYS	2.3
43	DU	103	GLY	2.3
38	DR	3	ARG	2.3
1	AA	89	U	2.3
4	CG	31	CYS	2.3
24	BA	2126	A	2.3
24	DA	1909	C	2.3
34	BO	35	HIS	2.2
6	CI	25	ILE	2.2
2	AE	9	GLU	2.2
49	D4	3	GLU	2.2
35	BP	83	MET	2.2
1	CA	85	U	2.2

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Mol	Chain	Res	Type	RSRZ
40	D2	38	LEU	2.2
49	B4	44	THR	2.2
28	DF	69	HIS	2.2
7	AJ	49	ILE	2.2
50	D5	2	ALA	2.2
1	CA	1452	C	2.2
29	DG	182	LYS	2.2
15	AR	2	PRO	2.2
29	DG	105	LYS	2.2
24	DA	270(J)	G	2.2
24	DA	654(S)	G	2.2
43	BU	86	ARG	2.2
1	AA	1377	A	2.2
31	DK	134	PRO	2.2
13	CP	85	GLY	2.2
42	DT	94	GLY	2.2
36	B0	101	ALA	2.2
15	CR	88	ARG	2.1
46	BZ	11	ARG	2.1
24	BA	855	G	2.1
24	DA	2791	C	2.1
4	AG	178	VAL	2.1
13	CP	120	LYS	2.1
49	B4	41	PRO	2.1
2	AE	218	ALA	2.1
28	DF	207	GLY	2.1
46	DZ	84	GLY	2.1
30	BH	34	GLU	2.1
24	DA	2794	C	2.1
43	BU	78	ALA	2.1
24	BA	361	G	2.1
13	CP	8	GLU	2.1
1	CA	1196	U	2.1
27	BE	205	ALA	2.1
3	AF	103	VAL	2.1
24	DA	603	A	2.0
24	DA	1829	A	2.0
46	BZ	79	GLY	2.0
26	BD	273	ARG	2.0
52	D7	48	LYS	2.0
27	BE	204	ALA	2.0
24	DA	1513	C	2.0

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Mol	Chain	Res	Type	RSRZ
24	BA	573	G	2.0
19	AV	80	TYR	2.0
29	DG	52	ILE	2.0
11	CN	11	LYS	2.0
32	DM	130	HIS	2.0
35	DP	21	THR	2.0
41	DS	111	HIS	2.0
11	CN	42	TRP	2.0
26	DD	33	LEU	2.0
12	CO	129	ALA	2.0
49	D4	66	SER	2.0
4	AG	112	VAL	2.0

5.2 Non-standard residues in protein, DNA, RNA chains (i)

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

5.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1847	1/1	-0.36	0.30	133,133,133,133	0
54	MG	DA	3794	1/1	-0.22	0.27	142,142,142,142	0
54	MG	AA	1909	1/1	-0.20	0.43	128,128,128,128	0
54	MG	DA	3791	1/1	-0.07	0.30	114,114,114,114	0
54	MG	DA	3802	1/1	-0.03	0.26	138,138,138,138	0
54	MG	AA	2004	1/1	0.07	0.25	124,124,124,124	0
54	MG	AA	1834	1/1	0.08	0.27	183,183,183,183	0
54	MG	DA	3792	1/1	0.08	0.21	157,157,157,157	0
54	MG	CA	1848	1/1	0.09	0.20	130,130,130,130	0
54	MG	CA	1947	1/1	0.10	0.33	205,205,205,205	0
54	MG	DA	3463	1/1	0.11	0.34	155,155,155,155	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1911	1/1	0.14	0.40	104,104,104,104	0
54	MG	BA	3283	1/1	0.15	0.24	126,126,126,126	0
54	MG	AA	1882	1/1	0.16	0.20	134,134,134,134	0
54	MG	AA	1915	1/1	0.16	0.18	172,172,172,172	0
54	MG	BA	3468	1/1	0.16	0.20	110,110,110,110	0
54	MG	BB	226	1/1	0.16	0.21	146,146,146,146	0
54	MG	BA	3297	1/1	0.18	0.17	131,131,131,131	0
54	MG	AA	1949	1/1	0.19	0.22	122,122,122,122	0
54	MG	DA	3049	1/1	0.20	0.38	114,114,114,114	0
54	MG	DA	3570	1/1	0.20	0.36	152,152,152,152	0
54	MG	BA	3471	1/1	0.21	0.23	156,156,156,156	0
54	MG	AA	2014	1/1	0.21	0.20	175,175,175,175	0
54	MG	BA	3554	1/1	0.22	0.15	122,122,122,122	0
54	MG	AA	1932	1/1	0.23	0.29	122,122,122,122	0
54	MG	AA	1622	1/1	0.23	0.21	78,78,78,78	0
54	MG	AA	1887	1/1	0.24	0.18	161,161,161,161	0
54	MG	CA	1956	1/1	0.24	0.11	217,217,217,217	0
54	MG	AA	1805	1/1	0.24	0.32	109,109,109,109	0
54	MG	DU	202	1/1	0.24	0.24	139,139,139,139	0
54	MG	AD	102	1/1	0.25	0.08	120,120,120,120	0
54	MG	AA	2030	1/1	0.26	0.36	188,188,188,188	0
54	MG	AA	1789	1/1	0.26	0.29	128,128,128,128	0
54	MG	CA	1824	1/1	0.27	0.18	156,156,156,156	0
54	MG	AA	1865	1/1	0.27	0.30	140,140,140,140	0
54	MG	DA	3790	1/1	0.27	0.25	109,109,109,109	0
54	MG	AA	1800	1/1	0.27	0.36	117,117,117,117	0
54	MG	DA	3512	1/1	0.28	0.41	96,96,96,96	0
54	MG	AA	1709	1/1	0.30	0.19	130,130,130,130	0
54	MG	BA	3571	1/1	0.30	0.17	94,94,94,94	0
54	MG	BA	3417	1/1	0.30	0.14	97,97,97,97	0
54	MG	AA	1835	1/1	0.32	0.33	109,109,109,109	0
54	MG	AA	1861	1/1	0.32	0.16	120,120,120,120	0
54	MG	CA	1741	1/1	0.32	0.29	123,123,123,123	0
54	MG	CA	1878	1/1	0.32	0.17	133,133,133,133	0
54	MG	AA	1761	1/1	0.34	0.23	136,136,136,136	0
54	MG	DA	3491	1/1	0.34	0.35	102,102,102,102	0
54	MG	BA	3232	1/1	0.35	0.14	99,99,99,99	0
54	MG	BH	201	1/1	0.35	0.28	193,193,193,193	0
54	MG	AA	1910	1/1	0.35	0.29	103,103,103,103	0
54	MG	AA	1840	1/1	0.35	0.46	132,132,132,132	0
54	MG	AA	1706	1/1	0.35	0.32	143,143,143,143	0
54	MG	DB	227	1/1	0.36	0.28	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1806	1/1	0.36	0.21	118,118,118,118	0
54	MG	DA	3597	1/1	0.37	0.32	168,168,168,168	0
54	MG	AA	2038	1/1	0.37	0.24	116,116,116,116	0
54	MG	DA	3188	1/1	0.37	0.37	96,96,96,96	0
54	MG	CA	1808	1/1	0.37	0.25	98,98,98,98	0
54	MG	DA	3440	1/1	0.38	0.40	118,118,118,118	0
54	MG	BA	2912	1/1	0.38	0.12	138,138,138,138	0
54	MG	DA	3520	1/1	0.38	0.22	90,90,90,90	0
54	MG	DA	3694	1/1	0.39	0.30	110,110,110,110	0
54	MG	DA	3631	1/1	0.39	0.22	118,118,118,118	0
54	MG	DA	3675	1/1	0.40	0.28	104,104,104,104	0
54	MG	CA	1860	1/1	0.40	0.31	127,127,127,127	0
54	MG	CA	1963	1/1	0.40	0.19	145,145,145,145	0
54	MG	DA	3303	1/1	0.41	0.33	113,113,113,113	0
54	MG	AA	1878	1/1	0.41	0.19	99,99,99,99	0
54	MG	BA	3499	1/1	0.41	0.19	114,114,114,114	0
54	MG	BA	3181	1/1	0.42	0.38	97,97,97,97	0
54	MG	AA	1903	1/1	0.42	0.33	95,95,95,95	0
54	MG	BA	3464	1/1	0.43	0.23	102,102,102,102	0
54	MG	DA	3293	1/1	0.43	0.28	134,134,134,134	0
54	MG	BA	3414	1/1	0.43	0.28	105,105,105,105	0
54	MG	AA	2007	1/1	0.43	0.21	119,119,119,119	0
54	MG	CA	1912	1/1	0.43	0.23	127,127,127,127	0
54	MG	AA	1816	1/1	0.44	0.30	107,107,107,107	0
54	MG	AA	1719	1/1	0.44	0.35	90,90,90,90	0
54	MG	CA	1782	1/1	0.44	0.21	123,123,123,123	0
54	MG	BA	3376	1/1	0.44	0.24	121,121,121,121	0
54	MG	DA	3656	1/1	0.44	0.29	136,136,136,136	0
54	MG	AA	1958	1/1	0.44	0.19	93,93,93,93	0
54	MG	DA	3246	1/1	0.44	0.29	101,101,101,101	0
54	MG	CA	1846	1/1	0.45	0.25	129,129,129,129	0
54	MG	BA	3555	1/1	0.45	0.16	119,119,119,119	0
54	MG	CA	1813	1/1	0.45	0.16	127,127,127,127	0
54	MG	BA	3320	1/1	0.45	0.31	101,101,101,101	0
54	MG	CC	110	1/1	0.46	0.10	110,110,110,110	0
54	MG	DA	3671	1/1	0.46	0.23	102,102,102,102	0
54	MG	CA	1680	1/1	0.46	0.19	99,99,99,99	0
54	MG	DA	3688	1/1	0.46	0.24	111,111,111,111	0
54	MG	BA	3561	1/1	0.46	0.34	117,117,117,117	0
54	MG	DA	3743	1/1	0.46	0.29	111,111,111,111	0
54	MG	BA	3136	1/1	0.46	0.28	111,111,111,111	0
54	MG	AA	1913	1/1	0.46	0.23	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	2913	1/1	0.46	0.12	115,115,115,115	0
54	MG	DA	3573	1/1	0.46	0.43	124,124,124,124	0
54	MG	DA	3587	1/1	0.46	0.31	134,134,134,134	0
54	MG	DB	221	1/1	0.46	0.14	94,94,94,94	0
54	MG	DA	3368	1/1	0.46	0.27	87,87,87,87	0
54	MG	DA	3430	1/1	0.46	0.33	95,95,95,95	0
54	MG	DA	3465	1/1	0.47	0.32	104,104,104,104	0
54	MG	CA	1840	1/1	0.47	0.23	113,113,113,113	0
54	MG	DA	3712	1/1	0.47	0.26	138,138,138,138	0
54	MG	AA	1666	1/1	0.47	0.26	95,95,95,95	0
54	MG	AA	1653	1/1	0.48	0.16	107,107,107,107	0
54	MG	AA	1775	1/1	0.48	0.35	88,88,88,88	0
54	MG	DA	3575	1/1	0.48	0.20	80,80,80,80	0
54	MG	BA	3018	1/1	0.48	0.34	109,109,109,109	0
54	MG	CA	1975	1/1	0.48	0.17	110,110,110,110	0
54	MG	BA	3569	1/1	0.48	0.15	137,137,137,137	0
54	MG	AA	1812	1/1	0.48	0.22	110,110,110,110	0
54	MG	DA	3788	1/1	0.49	0.20	111,111,111,111	0
54	MG	AA	1780	1/1	0.49	0.28	95,95,95,95	0
54	MG	CA	1818	1/1	0.49	0.17	92,92,92,92	0
54	MG	AA	1655	1/1	0.49	0.21	91,91,91,91	0
54	MG	DA	3422	1/1	0.49	0.31	82,82,82,82	0
54	MG	AA	1735	1/1	0.49	0.22	108,108,108,108	0
54	MG	BA	3245	1/1	0.49	0.12	128,128,128,128	0
54	MG	BF	302	1/1	0.49	0.28	117,117,117,117	0
54	MG	DA	3265	1/1	0.49	0.23	84,84,84,84	0
54	MG	BA	3266	1/1	0.50	0.29	97,97,97,97	0
54	MG	BA	3433	1/1	0.50	0.24	109,109,109,109	0
54	MG	CS	102	1/1	0.50	0.23	119,119,119,119	0
54	MG	CA	1866	1/1	0.50	0.28	118,118,118,118	0
54	MG	AT	201	1/1	0.50	0.26	101,101,101,101	0
54	MG	BA	3378	1/1	0.50	0.11	129,129,129,129	0
54	MG	DA	3704	1/1	0.50	0.20	134,134,134,134	0
54	MG	BA	3400	1/1	0.50	0.20	117,117,117,117	0
54	MG	BA	3080	1/1	0.50	0.19	69,69,69,69	0
54	MG	BA	3267	1/1	0.51	0.39	102,102,102,102	0
54	MG	BA	3479	1/1	0.51	0.22	119,119,119,119	0
54	MG	DA	3091	1/1	0.51	0.40	92,92,92,92	0
54	MG	DA	3528	1/1	0.51	0.24	80,80,80,80	0
54	MG	AJ	201	1/1	0.51	0.13	116,116,116,116	0
54	MG	AA	2003	1/1	0.51	0.17	128,128,128,128	0
54	MG	DB	208	1/1	0.51	0.13	135,135,135,135	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1954	1/1	0.51	0.28	108,108,108,108	0
54	MG	CA	1888	1/1	0.51	0.14	112,112,112,112	0
54	MG	DA	3470	1/1	0.51	0.30	79,79,79,79	0
54	MG	DA	3336	1/1	0.52	0.35	127,127,127,127	0
54	MG	DA	3134	1/1	0.52	0.34	111,111,111,111	0
54	MG	BA	3422	1/1	0.52	0.27	83,83,83,83	0
54	MG	DA	3517	1/1	0.53	0.25	81,81,81,81	0
54	MG	BA	3432	1/1	0.53	0.17	115,115,115,115	0
54	MG	CA	1707	1/1	0.53	0.14	106,106,106,106	0
54	MG	CA	1727	1/1	0.53	0.12	131,131,131,131	0
54	MG	AA	1993	1/1	0.53	0.19	134,134,134,134	0
54	MG	BA	3572	1/1	0.53	0.27	106,106,106,106	0
54	MG	CA	1788	1/1	0.53	0.28	86,86,86,86	0
54	MG	DA	3441	1/1	0.53	0.42	116,116,116,116	0
54	MG	DA	3618	1/1	0.53	0.33	113,113,113,113	0
54	MG	AA	1956	1/1	0.53	0.22	118,118,118,118	0
54	MG	AL	202	1/1	0.53	0.09	129,129,129,129	0
54	MG	AA	1696	1/1	0.53	0.23	134,134,134,134	0
54	MG	BQ	201	1/1	0.53	0.10	105,105,105,105	0
54	MG	CA	1830	1/1	0.53	0.18	135,135,135,135	0
54	MG	CW	205	1/1	0.54	0.20	143,143,143,143	0
54	MG	DA	3611	1/1	0.54	0.31	112,112,112,112	0
54	MG	AA	1937	1/1	0.54	0.30	95,95,95,95	0
54	MG	CA	1910	1/1	0.54	0.14	130,130,130,130	0
54	MG	DA	3738	1/1	0.54	0.15	114,114,114,114	0
54	MG	AA	1964	1/1	0.54	0.30	103,103,103,103	0
54	MG	CA	1858	1/1	0.54	0.27	109,109,109,109	0
54	MG	DA	3311	1/1	0.54	0.22	100,100,100,100	0
54	MG	AA	1747	1/1	0.55	0.27	89,89,89,89	0
54	MG	DB	213	1/1	0.55	0.25	133,133,133,133	0
54	MG	CA	1759	1/1	0.55	0.24	113,113,113,113	0
54	MG	DB	222	1/1	0.55	0.19	92,92,92,92	0
54	MG	CA	1815	1/1	0.55	0.34	105,105,105,105	0
54	MG	DG	203	1/1	0.55	0.30	112,112,112,112	0
54	MG	DA	3472	1/1	0.55	0.30	111,111,111,111	0
54	MG	CA	1722	1/1	0.56	0.22	99,99,99,99	0
54	MG	DA	3746	1/1	0.56	0.13	64,64,64,64	0
54	MG	DA	3594	1/1	0.56	0.17	123,123,123,123	0
54	MG	CA	1942	1/1	0.56	0.14	101,101,101,101	0
54	MG	BA	2911	1/1	0.56	0.08	120,120,120,120	0
54	MG	AA	2024	1/1	0.56	0.27	75,75,75,75	0
54	MG	AA	1971	1/1	0.56	0.13	123,123,123,123	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1872	1/1	0.56	0.13	108,108,108,108	0
54	MG	AA	1826	1/1	0.56	0.34	108,108,108,108	0
54	MG	AA	1919	1/1	0.56	0.35	117,117,117,117	0
54	MG	DA	3527	1/1	0.56	0.30	127,127,127,127	0
54	MG	AA	1727	1/1	0.56	0.22	104,104,104,104	0
54	MG	BA	3205	1/1	0.56	0.22	92,92,92,92	0
54	MG	AW	203	1/1	0.56	0.27	114,114,114,114	0
54	MG	AA	1687	1/1	0.56	0.27	138,138,138,138	0
54	MG	DA	3238	1/1	0.57	0.33	100,100,100,100	0
54	MG	BA	3375	1/1	0.57	0.12	112,112,112,112	0
54	MG	DA	3515	1/1	0.57	0.19	100,100,100,100	0
54	MG	AA	1966	1/1	0.57	0.18	85,85,85,85	0
54	MG	CA	1794	1/1	0.57	0.18	80,80,80,80	0
54	MG	CA	1862	1/1	0.57	0.12	112,112,112,112	0
54	MG	AT	202	1/1	0.57	0.19	111,111,111,111	0
54	MG	DA	3532	1/1	0.57	0.18	87,87,87,87	0
54	MG	BA	3278	1/1	0.57	0.23	119,119,119,119	0
54	MG	BB	225	1/1	0.57	0.10	90,90,90,90	0
54	MG	DA	3281	1/1	0.58	0.18	123,123,123,123	0
54	MG	DB	201	1/1	0.58	0.26	86,86,86,86	0
54	MG	BA	3076	1/1	0.58	0.20	88,88,88,88	0
54	MG	BA	3450	1/1	0.58	0.20	90,90,90,90	0
54	MG	AA	2023	1/1	0.58	0.10	112,112,112,112	0
54	MG	CA	1704	1/1	0.58	0.18	88,88,88,88	0
54	MG	AA	2029	1/1	0.58	0.36	127,127,127,127	0
54	MG	DA	3269	1/1	0.58	0.44	99,99,99,99	0
54	MG	DA	3477	1/1	0.58	0.14	83,83,83,83	0
54	MG	DA	3644	1/1	0.59	0.35	106,106,106,106	0
54	MG	CR	101	1/1	0.59	0.26	117,117,117,117	0
54	MG	BA	3335	1/1	0.59	0.36	86,86,86,86	0
54	MG	DB	229	1/1	0.59	0.24	78,78,78,78	0
54	MG	AA	1689	1/1	0.59	0.22	93,93,93,93	0
54	MG	BA	3328	1/1	0.59	0.23	105,105,105,105	0
54	MG	AA	1904	1/1	0.60	0.20	121,121,121,121	0
54	MG	CA	1897	1/1	0.60	0.16	105,105,105,105	0
54	MG	AA	1939	1/1	0.60	0.20	118,118,118,118	0
54	MG	DA	3451	1/1	0.60	0.21	80,80,80,80	0
54	MG	BA	3301	1/1	0.60	0.25	92,92,92,92	0
54	MG	CA	1742	1/1	0.60	0.14	124,124,124,124	0
54	MG	CA	1841	1/1	0.60	0.18	119,119,119,119	0
54	MG	CA	1748	1/1	0.60	0.12	71,71,71,71	0
54	MG	AA	1868	1/1	0.60	0.13	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3321	1/1	0.60	0.12	64,64,64,64	0
54	MG	DA	3299	1/1	0.60	0.24	84,84,84,84	0
54	MG	AA	1664	1/1	0.60	0.20	69,69,69,69	0
54	MG	AA	2017	1/1	0.60	0.14	92,92,92,92	0
54	MG	BA	3368	1/1	0.60	0.25	113,113,113,113	0
54	MG	AA	1720	1/1	0.60	0.16	76,76,76,76	0
54	MG	DA	3410	1/1	0.60	0.28	95,95,95,95	0
54	MG	BA	3570	1/1	0.60	0.20	104,104,104,104	0
54	MG	DA	3725	1/1	0.60	0.28	132,132,132,132	0
54	MG	BA	3520	1/1	0.61	0.19	55,55,55,55	0
54	MG	AA	1733	1/1	0.61	0.27	102,102,102,102	0
54	MG	DA	3682	1/1	0.61	0.49	141,141,141,141	0
54	MG	AA	1899	1/1	0.61	0.15	112,112,112,112	0
54	MG	AA	1762	1/1	0.61	0.27	104,104,104,104	0
54	MG	CA	1657	1/1	0.61	0.23	96,96,96,96	0
54	MG	BA	3226	1/1	0.61	0.24	88,88,88,88	0
54	MG	DA	3235	1/1	0.61	0.20	71,71,71,71	0
54	MG	AA	1886	1/1	0.61	0.22	102,102,102,102	0
54	MG	AA	1957	1/1	0.61	0.15	82,82,82,82	0
54	MG	AH	201	1/1	0.61	0.20	103,103,103,103	0
54	MG	BA	3574	1/1	0.61	0.12	86,86,86,86	0
54	MG	BA	3105	1/1	0.61	0.18	87,87,87,87	0
54	MG	AA	1928	1/1	0.62	0.23	117,117,117,117	0
54	MG	DA	3716	1/1	0.62	0.21	86,86,86,86	0
54	MG	BA	3503	1/1	0.62	0.16	66,66,66,66	0
54	MG	CA	1944	1/1	0.62	0.15	99,99,99,99	0
54	MG	AA	1799	1/1	0.62	0.13	91,91,91,91	0
54	MG	AA	1750	1/1	0.62	0.20	79,79,79,79	0
54	MG	CA	1629	1/1	0.62	0.25	85,85,85,85	0
54	MG	DA	3789	1/1	0.62	0.23	118,118,118,118	0
54	MG	DB	228	1/1	0.62	0.32	116,116,116,116	0
54	MG	CA	1810	1/1	0.62	0.17	92,92,92,92	0
54	MG	AA	1662	1/1	0.62	0.19	100,100,100,100	0
54	MG	AW	201	1/1	0.62	0.25	108,108,108,108	0
54	MG	BA	3424	1/1	0.63	0.30	107,107,107,107	0
54	MG	DA	3719	1/1	0.63	0.20	116,116,116,116	0
54	MG	DA	3668	1/1	0.63	0.46	117,117,117,117	0
54	MG	DA	3196	1/1	0.63	0.25	106,106,106,106	0
54	MG	CC	102	1/1	0.63	0.09	87,87,87,87	0
54	MG	AA	1881	1/1	0.63	0.23	77,77,77,77	0
54	MG	DA	3785	1/1	0.63	0.27	117,117,117,117	0
54	MG	CP	204	1/1	0.63	0.19	137,137,137,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3569	1/1	0.63	0.25	92,92,92,92	0
54	MG	DA	3699	1/1	0.63	0.29	102,102,102,102	0
54	MG	CA	1852	1/1	0.63	0.28	111,111,111,111	0
54	MG	BA	3394	1/1	0.63	0.19	121,121,121,121	0
54	MG	BA	3358	1/1	0.64	0.21	101,101,101,101	0
54	MG	DA	3771	1/1	0.64	0.24	97,97,97,97	0
54	MG	AA	1876	1/1	0.64	0.12	78,78,78,78	0
54	MG	CA	1641	1/1	0.64	0.19	72,72,72,72	0
54	MG	BA	3285	1/1	0.64	0.07	79,79,79,79	0
54	MG	BA	3293	1/1	0.64	0.13	111,111,111,111	0
54	MG	AA	1926	1/1	0.64	0.17	102,102,102,102	0
54	MG	DA	3326	1/1	0.64	0.41	105,105,105,105	0
54	MG	DA	3518	1/1	0.64	0.13	78,78,78,78	0
54	MG	CD	108	1/1	0.64	0.10	174,174,174,174	0
54	MG	DA	3357	1/1	0.64	0.19	77,77,77,77	0
54	MG	BA	3242	1/1	0.64	0.18	82,82,82,82	0
54	MG	AA	1829	1/1	0.64	0.14	109,109,109,109	0
54	MG	BA	3573	1/1	0.64	0.18	86,86,86,86	0
54	MG	AA	1724	1/1	0.64	0.35	82,82,82,82	0
54	MG	BA	3490	1/1	0.64	0.21	107,107,107,107	0
54	MG	AA	2034	1/1	0.64	0.23	94,94,94,94	0
54	MG	AA	1893	1/1	0.64	0.26	95,95,95,95	0
54	MG	DF	301	1/1	0.64	0.20	82,82,82,82	0
54	MG	BA	3423	1/1	0.64	0.19	85,85,85,85	0
54	MG	CA	1787	1/1	0.64	0.21	147,147,147,147	0
54	MG	BA	3201	1/1	0.65	0.17	97,97,97,97	0
54	MG	CA	1653	1/1	0.65	0.32	86,86,86,86	0
54	MG	AA	1986	1/1	0.65	0.11	96,96,96,96	0
54	MG	BA	3360	1/1	0.65	0.23	117,117,117,117	0
54	MG	BA	3223	1/1	0.65	0.24	88,88,88,88	0
54	MG	BB	208	1/1	0.65	0.11	91,91,91,91	0
54	MG	AA	1866	1/1	0.65	0.23	117,117,117,117	0
54	MG	AA	1857	1/1	0.65	0.29	88,88,88,88	0
54	MG	DA	3799	1/1	0.65	0.10	92,92,92,92	0
54	MG	CA	1739	1/1	0.65	0.12	80,80,80,80	0
54	MG	BA	3129	1/1	0.65	0.26	72,72,72,72	0
54	MG	AA	1617	1/1	0.65	0.26	77,77,77,77	0
54	MG	CA	1904	1/1	0.65	0.33	117,117,117,117	0
54	MG	DA	3713	1/1	0.65	0.25	144,144,144,144	0
54	MG	DA	3592	1/1	0.65	0.24	78,78,78,78	0
54	MG	BA	3177	1/1	0.65	0.23	89,89,89,89	0
54	MG	DA	3034	1/1	0.65	0.26	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3318	1/1	0.65	0.26	87,87,87,87	0
54	MG	AA	1704	1/1	0.65	0.20	88,88,88,88	0
54	MG	DA	3628	1/1	0.65	0.21	70,70,70,70	0
54	MG	DA	3751	1/1	0.65	0.21	101,101,101,101	0
55	ZN	AA	2041	1/1	0.65	0.12	262,262,262,262	0
54	MG	AA	1850	1/1	0.66	0.31	112,112,112,112	0
54	MG	AA	1992	1/1	0.66	0.12	106,106,106,106	0
54	MG	AA	1945	1/1	0.66	0.20	67,67,67,67	0
54	MG	AA	1931	1/1	0.66	0.23	98,98,98,98	0
54	MG	BA	2907	1/1	0.66	0.15	106,106,106,106	0
54	MG	CA	1922	1/1	0.66	0.28	116,116,116,116	0
54	MG	DA	3018	1/1	0.66	0.32	83,83,83,83	0
54	MG	CA	1928	1/1	0.66	0.09	122,122,122,122	0
54	MG	AA	1737	1/1	0.66	0.14	97,97,97,97	0
54	MG	BA	3537	1/1	0.66	0.31	108,108,108,108	0
54	MG	BA	3142	1/1	0.66	0.22	90,90,90,90	0
54	MG	BA	3382	1/1	0.66	0.21	123,123,123,123	0
54	MG	DA	3363	1/1	0.66	0.27	113,113,113,113	0
54	MG	AO	201	1/1	0.66	0.20	70,70,70,70	0
54	MG	DA	3652	1/1	0.66	0.21	83,83,83,83	0
54	MG	DA	3770	1/1	0.66	0.25	87,87,87,87	0
54	MG	DA	3379	1/1	0.66	0.28	100,100,100,100	0
54	MG	AA	1768	1/1	0.66	0.17	67,67,67,67	0
54	MG	BR	201	1/1	0.66	0.23	103,103,103,103	0
54	MG	BA	3049	1/1	0.67	0.32	71,71,71,71	0
54	MG	CA	1971	1/1	0.67	0.20	116,116,116,116	0
54	MG	BA	3071	1/1	0.67	0.17	74,74,74,74	0
54	MG	AI	201	1/1	0.67	0.24	72,72,72,72	0
54	MG	AA	1870	1/1	0.67	0.12	92,92,92,92	0
54	MG	AA	1985	1/1	0.67	0.08	131,131,131,131	0
54	MG	AA	1853	1/1	0.67	0.14	104,104,104,104	0
54	MG	CA	1906	1/1	0.67	0.21	107,107,107,107	0
54	MG	AA	1867	1/1	0.67	0.28	85,85,85,85	0
54	MG	AA	1821	1/1	0.67	0.13	141,141,141,141	0
54	MG	CA	1762	1/1	0.67	0.19	110,110,110,110	0
54	MG	BA	3008	1/1	0.67	0.19	95,95,95,95	0
54	MG	DA	3724	1/1	0.67	0.20	106,106,106,106	0
54	MG	AA	1999	1/1	0.67	0.20	100,100,100,100	0
54	MG	CA	1661	1/1	0.67	0.19	64,64,64,64	0
54	MG	DA	3107	1/1	0.67	0.27	91,91,91,91	0
54	MG	BA	3186	1/1	0.67	0.13	83,83,83,83	0
54	MG	BB	213	1/1	0.67	0.10	122,122,122,122	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3376	1/1	0.67	0.20	93,93,93,93	0
54	MG	DA	3660	1/1	0.67	0.29	87,87,87,87	0
54	MG	DA	3781	1/1	0.67	0.24	97,97,97,97	0
54	MG	CA	1716	1/1	0.68	0.10	110,110,110,110	0
54	MG	AA	1742	1/1	0.68	0.19	83,83,83,83	0
54	MG	DA	3509	1/1	0.68	0.11	94,94,94,94	0
54	MG	CA	1821	1/1	0.68	0.17	104,104,104,104	0
54	MG	CD	107	1/1	0.68	0.18	122,122,122,122	0
54	MG	CA	1908	1/1	0.68	0.23	128,128,128,128	0
54	MG	AA	1997	1/1	0.68	0.18	108,108,108,108	0
54	MG	DA	3351	1/1	0.68	0.07	88,88,88,88	0
54	MG	AA	2036	1/1	0.68	0.14	90,90,90,90	0
54	MG	AA	1894	1/1	0.68	0.25	103,103,103,103	0
54	MG	AA	1959	1/1	0.68	0.20	104,104,104,104	0
54	MG	BA	3281	1/1	0.68	0.23	113,113,113,113	0
54	MG	AA	1849	1/1	0.68	0.24	92,92,92,92	0
54	MG	AA	1965	1/1	0.68	0.20	117,117,117,117	0
54	MG	DB	220	1/1	0.68	0.13	122,122,122,122	0
54	MG	AA	1633	1/1	0.68	0.22	79,79,79,79	0
54	MG	DA	3219	1/1	0.68	0.26	80,80,80,80	0
54	MG	AA	1644	1/1	0.68	0.27	90,90,90,90	0
54	MG	AA	1602	1/1	0.68	0.28	53,53,53,53	0
54	MG	BB	204	1/1	0.68	0.17	97,97,97,97	0
54	MG	CA	1698	1/1	0.68	0.19	101,101,101,101	0
54	MG	AA	1955	1/1	0.68	0.25	103,103,103,103	0
54	MG	AA	1632	1/1	0.68	0.18	72,72,72,72	0
54	MG	CW	202	1/1	0.68	0.23	108,108,108,108	0
54	MG	DA	3374	1/1	0.69	0.21	75,75,75,75	0
54	MG	CA	1775	1/1	0.69	0.17	99,99,99,99	0
54	MG	CA	1664	1/1	0.69	0.16	87,87,87,87	0
54	MG	DA	3401	1/1	0.69	0.13	182,182,182,182	0
54	MG	DA	3588	1/1	0.69	0.15	91,91,91,91	0
54	MG	CA	1786	1/1	0.69	0.18	86,86,86,86	0
54	MG	DA	3419	1/1	0.69	0.30	92,92,92,92	0
54	MG	DA	3159	1/1	0.69	0.20	77,77,77,77	0
54	MG	CA	1950	1/1	0.69	0.20	121,121,121,121	0
54	MG	DA	3612	1/1	0.69	0.14	99,99,99,99	0
54	MG	BA	3437	1/1	0.69	0.15	88,88,88,88	0
54	MG	CA	1957	1/1	0.69	0.10	90,90,90,90	0
54	MG	AA	1917	1/1	0.69	0.36	132,132,132,132	0
54	MG	AD	101	1/1	0.69	0.12	85,85,85,85	0
54	MG	CA	1804	1/1	0.69	0.13	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3270	1/1	0.69	0.34	98,98,98,98	0
54	MG	AA	1682	1/1	0.69	0.31	87,87,87,87	0
54	MG	CA	1811	1/1	0.69	0.21	108,108,108,108	0
54	MG	DA	3487	1/1	0.69	0.24	96,96,96,96	0
54	MG	AA	1924	1/1	0.69	0.17	114,114,114,114	0
54	MG	AA	1728	1/1	0.69	0.21	77,77,77,77	0
54	MG	CA	1606	1/1	0.69	0.19	70,70,70,70	0
54	MG	CC	103	1/1	0.69	0.10	86,86,86,86	0
54	MG	AA	1863	1/1	0.69	0.36	92,92,92,92	0
54	MG	AA	1929	1/1	0.69	0.18	124,124,124,124	0
54	MG	BA	3582	1/1	0.69	0.10	133,133,133,133	0
54	MG	DA	3010	1/1	0.69	0.26	86,86,86,86	0
54	MG	AA	1851	1/1	0.69	0.20	97,97,97,97	0
54	MG	CA	1924	1/1	0.69	0.09	98,98,98,98	0
54	MG	AA	1843	1/1	0.69	0.32	93,93,93,93	0
54	MG	AA	1934	1/1	0.70	0.14	88,88,88,88	0
54	MG	DA	3085	1/1	0.70	0.29	67,67,67,67	0
54	MG	DA	3749	1/1	0.70	0.12	102,102,102,102	0
54	MG	CK	202	1/1	0.70	0.19	87,87,87,87	0
54	MG	BA	3546	1/1	0.70	0.25	102,102,102,102	0
54	MG	DA	3327	1/1	0.70	0.28	100,100,100,100	0
54	MG	BA	3390	1/1	0.70	0.21	77,77,77,77	0
54	MG	BA	3474	1/1	0.70	0.15	78,78,78,78	0
54	MG	DA	3495	1/1	0.70	0.26	92,92,92,92	0
54	MG	DA	3501	1/1	0.70	0.15	84,84,84,84	0
54	MG	AA	1935	1/1	0.70	0.18	94,94,94,94	0
54	MG	CW	203	1/1	0.70	0.10	111,111,111,111	0
54	MG	DA	3205	1/1	0.70	0.26	115,115,115,115	0
54	MG	DA	3369	1/1	0.70	0.27	90,90,90,90	0
54	MG	DA	3217	1/1	0.70	0.27	79,79,79,79	0
54	MG	CA	1747	1/1	0.70	0.23	93,93,93,93	0
54	MG	DA	3805	1/1	0.70	0.22	90,90,90,90	0
54	MG	BB	216	1/1	0.70	0.11	83,83,83,83	0
54	MG	DB	204	1/1	0.70	0.14	94,94,94,94	0
54	MG	DA	3691	1/1	0.70	0.20	82,82,82,82	0
54	MG	BA	3562	1/1	0.70	0.20	94,94,94,94	0
54	MG	DB	218	1/1	0.70	0.17	84,84,84,84	0
54	MG	DA	3243	1/1	0.70	0.23	65,65,65,65	0
54	MG	DA	3563	1/1	0.70	0.17	76,76,76,76	0
54	MG	AA	1685	1/1	0.70	0.21	96,96,96,96	0
54	MG	AC	101	1/1	0.70	0.08	88,88,88,88	0
54	MG	AA	1819	1/1	0.70	0.11	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1828	1/1	0.70	0.18	89,89,89,89	0
54	MG	BA	3517	1/1	0.70	0.16	93,93,93,93	0
54	MG	DA	3444	1/1	0.70	0.25	86,86,86,86	0
54	MG	DA	3728	1/1	0.70	0.15	123,123,123,123	0
54	MG	BA	3161	1/1	0.70	0.25	96,96,96,96	0
54	MG	DA	3765	1/1	0.71	0.19	110,110,110,110	0
54	MG	DA	3223	1/1	0.71	0.12	64,64,64,64	0
54	MG	DA	3498	1/1	0.71	0.19	107,107,107,107	0
54	MG	BA	3154	1/1	0.71	0.25	117,117,117,117	0
54	MG	AA	1802	1/1	0.71	0.17	98,98,98,98	0
54	MG	DA	3377	1/1	0.71	0.17	111,111,111,111	0
54	MG	CD	110	1/1	0.71	0.13	102,102,102,102	0
54	MG	CD	124	1/1	0.71	0.14	109,109,109,109	0
54	MG	DA	3669	1/1	0.71	0.13	70,70,70,70	0
54	MG	CA	1960	1/1	0.71	0.21	108,108,108,108	0
54	MG	DA	3413	1/1	0.71	0.32	99,99,99,99	0
54	MG	AA	1832	1/1	0.71	0.23	91,91,91,91	0
54	MG	BU	204	1/1	0.71	0.20	94,94,94,94	0
54	MG	CA	1850	1/1	0.71	0.11	96,96,96,96	0
54	MG	DA	3535	1/1	0.71	0.16	79,79,79,79	0
54	MG	DA	3433	1/1	0.71	0.24	87,87,87,87	0
54	MG	DA	3437	1/1	0.71	0.29	107,107,107,107	0
54	MG	DB	209	1/1	0.71	0.34	81,81,81,81	0
54	MG	AA	1938	1/1	0.71	0.34	89,89,89,89	0
54	MG	BA	3117	1/1	0.71	0.16	93,93,93,93	0
54	MG	BA	3454	1/1	0.71	0.13	100,100,100,100	0
54	MG	DA	3580	1/1	0.71	0.19	96,96,96,96	0
54	MG	CA	1925	1/1	0.71	0.19	90,90,90,90	0
54	MG	CA	1651	1/1	0.71	0.26	76,76,76,76	0
54	MG	CA	1930	1/1	0.71	0.15	96,96,96,96	0
54	MG	DA	3193	1/1	0.71	0.31	81,81,81,81	0
54	MG	AA	1725	1/1	0.71	0.29	92,92,92,92	0
54	MG	AA	1933	1/1	0.71	0.22	98,98,98,98	0
54	MG	D1	201	1/1	0.71	0.28	83,83,83,83	0
54	MG	D2	201	1/1	0.71	0.12	110,110,110,110	0
54	MG	CA	1886	1/1	0.71	0.12	120,120,120,120	0
54	MG	AA	1918	1/1	0.71	0.12	84,84,84,84	0
54	MG	DA	3784	1/1	0.72	0.29	106,106,106,106	0
54	MG	AA	1674	1/1	0.72	0.19	74,74,74,74	0
54	MG	BA	3478	1/1	0.72	0.27	127,127,127,127	0
54	MG	DA	3670	1/1	0.72	0.21	98,98,98,98	0
54	MG	AA	1982	1/1	0.72	0.05	126,126,126,126	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3088	1/1	0.72	0.26	56,56,56,56	0
54	MG	CA	1735	1/1	0.72	0.24	108,108,108,108	0
54	MG	AA	1947	1/1	0.72	0.26	119,119,119,119	0
54	MG	DA	3797	1/1	0.72	0.29	85,85,85,85	0
54	MG	DA	3127	1/1	0.72	0.29	78,78,78,78	0
54	MG	DA	3800	1/1	0.72	0.11	86,86,86,86	0
54	MG	AA	1629	1/1	0.72	0.26	74,74,74,74	0
54	MG	AA	1634	1/1	0.72	0.33	97,97,97,97	0
54	MG	BA	3512	1/1	0.72	0.24	113,113,113,113	0
54	MG	DA	3710	1/1	0.72	0.11	106,106,106,106	0
54	MG	DB	205	1/1	0.72	0.17	69,69,69,69	0
54	MG	BA	3132	1/1	0.72	0.28	90,90,90,90	0
54	MG	CA	1656	1/1	0.72	0.17	98,98,98,98	0
54	MG	DA	3365	1/1	0.72	0.14	107,107,107,107	0
54	MG	CA	1761	1/1	0.72	0.13	129,129,129,129	0
54	MG	AA	1730	1/1	0.72	0.26	85,85,85,85	0
54	MG	BA	3441	1/1	0.72	0.11	144,144,144,144	0
54	MG	AX	101	1/1	0.72	0.14	107,107,107,107	0
54	MG	BA	3240	1/1	0.72	0.26	71,71,71,71	0
54	MG	DA	3625	1/1	0.72	0.19	99,99,99,99	0
54	MG	DA	3626	1/1	0.72	0.29	109,109,109,109	0
54	MG	CA	1697	1/1	0.72	0.33	98,98,98,98	0
54	MG	DA	3385	1/1	0.72	0.30	99,99,99,99	0
54	MG	BA	3151	1/1	0.72	0.30	114,114,114,114	0
54	MG	AA	1995	1/1	0.72	0.15	142,142,142,142	0
54	MG	CA	1705	1/1	0.72	0.14	84,84,84,84	0
54	MG	AA	1940	1/1	0.72	0.19	91,91,91,91	0
54	MG	BA	3393	1/1	0.73	0.11	82,82,82,82	0
54	MG	AA	1828	1/1	0.73	0.07	98,98,98,98	0
54	MG	DA	3442	1/1	0.73	0.16	86,86,86,86	0
54	MG	DA	3793	1/1	0.73	0.14	108,108,108,108	0
54	MG	CA	1903	1/1	0.73	0.19	134,134,134,134	0
54	MG	BA	3264	1/1	0.73	0.18	64,64,64,64	0
54	MG	AA	1643	1/1	0.73	0.12	124,124,124,124	0
54	MG	BA	3473	1/1	0.73	0.17	93,93,93,93	0
54	MG	DA	3168	1/1	0.73	0.32	96,96,96,96	0
54	MG	AA	1668	1/1	0.73	0.38	107,107,107,107	0
54	MG	CA	1771	1/1	0.73	0.21	101,101,101,101	0
54	MG	CA	1918	1/1	0.73	0.10	93,93,93,93	0
54	MG	CA	1699	1/1	0.73	0.22	66,66,66,66	0
54	MG	CA	1923	1/1	0.73	0.16	104,104,104,104	0
54	MG	DA	3613	1/1	0.73	0.09	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3496	1/1	0.73	0.22	69,69,69,69	0
54	MG	DB	217	1/1	0.73	0.12	122,122,122,122	0
54	MG	CA	1776	1/1	0.73	0.12	92,92,92,92	0
54	MG	AA	1611	1/1	0.73	0.26	63,63,63,63	0
54	MG	AA	1754	1/1	0.73	0.21	96,96,96,96	0
54	MG	AA	1804	1/1	0.73	0.27	88,88,88,88	0
54	MG	CA	1712	1/1	0.73	0.15	65,65,65,65	0
54	MG	CD	112	1/1	0.73	0.07	85,85,85,85	0
54	MG	AA	1842	1/1	0.73	0.17	72,72,72,72	0
54	MG	AA	1927	1/1	0.73	0.27	98,98,98,98	0
54	MG	AA	1760	1/1	0.73	0.21	91,91,91,91	0
54	MG	AA	2033	1/1	0.73	0.22	106,106,106,106	0
54	MG	AA	1844	1/1	0.73	0.13	108,108,108,108	0
54	MG	BA	3525	1/1	0.73	0.09	95,95,95,95	0
54	MG	DA	3673	1/1	0.73	0.09	94,94,94,94	0
54	MG	BA	3233	1/1	0.74	0.12	84,84,84,84	0
54	MG	AA	1640	1/1	0.74	0.19	75,75,75,75	0
54	MG	DA	3773	1/1	0.74	0.18	89,89,89,89	0
54	MG	BA	3146	1/1	0.74	0.08	78,78,78,78	0
54	MG	BA	3415	1/1	0.74	0.37	89,89,89,89	0
54	MG	AC	102	1/1	0.74	0.24	85,85,85,85	0
54	MG	CA	1649	1/1	0.74	0.29	86,86,86,86	0
54	MG	CA	1746	1/1	0.74	0.29	86,86,86,86	0
54	MG	AA	2015	1/1	0.74	0.18	106,106,106,106	0
54	MG	AA	1914	1/1	0.74	0.16	109,109,109,109	0
54	MG	CA	1753	1/1	0.74	0.14	114,114,114,114	0
54	MG	BA	2905	1/1	0.74	0.09	136,136,136,136	0
54	MG	BA	3500	1/1	0.74	0.17	64,64,64,64	0
54	MG	BA	3084	1/1	0.74	0.33	83,83,83,83	0
54	MG	DA	3116	1/1	0.74	0.34	93,93,93,93	0
54	MG	BA	3505	1/1	0.74	0.35	114,114,114,114	0
54	MG	CA	1667	1/1	0.74	0.08	93,93,93,93	0
54	MG	BB	207	1/1	0.74	0.12	69,69,69,69	0
54	MG	CA	1968	1/1	0.74	0.12	90,90,90,90	0
54	MG	DA	3169	1/1	0.74	0.21	59,59,59,59	0
54	MG	DA	3185	1/1	0.74	0.29	75,75,75,75	0
54	MG	AA	2018	1/1	0.74	0.14	117,117,117,117	0
54	MG	CA	1875	1/1	0.74	0.15	110,110,110,110	0
54	MG	BA	3515	1/1	0.74	0.28	80,80,80,80	0
54	MG	BA	3434	1/1	0.74	0.17	88,88,88,88	0
54	MG	DA	3212	1/1	0.74	0.22	113,113,113,113	0
54	MG	AA	2020	1/1	0.74	0.15	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3720	1/1	0.74	0.30	82,82,82,82	0
54	MG	AA	2021	1/1	0.74	0.11	108,108,108,108	0
54	MG	CA	1898	1/1	0.74	0.18	122,122,122,122	0
54	MG	DA	3228	1/1	0.74	0.24	77,77,77,77	0
54	MG	CA	1706	1/1	0.74	0.15	61,61,61,61	0
54	MG	BA	3130	1/1	0.74	0.21	75,75,75,75	0
54	MG	AA	1953	1/1	0.74	0.14	94,94,94,94	0
54	MG	AA	1888	1/1	0.74	0.15	114,114,114,114	0
54	MG	DA	3449	1/1	0.74	0.15	95,95,95,95	0
54	MG	DU	201	1/1	0.74	0.13	60,60,60,60	0
54	MG	DA	3764	1/1	0.74	0.10	108,108,108,108	0
54	MG	DU	205	1/1	0.74	0.09	75,75,75,75	0
54	MG	CA	1718	1/1	0.74	0.22	96,96,96,96	0
54	MG	DA	3624	1/1	0.75	0.16	82,82,82,82	0
54	MG	CA	1715	1/1	0.75	0.25	101,101,101,101	0
54	MG	BA	3493	1/1	0.75	0.26	85,85,85,85	0
54	MG	BA	3118	1/1	0.75	0.17	82,82,82,82	0
54	MG	CA	1797	1/1	0.75	0.16	77,77,77,77	0
54	MG	AA	1699	1/1	0.75	0.17	95,95,95,95	0
54	MG	CA	1964	1/1	0.75	0.07	94,94,94,94	0
54	MG	BA	3195	1/1	0.75	0.11	124,124,124,124	0
54	MG	AK	201	1/1	0.75	0.27	90,90,90,90	0
54	MG	DA	3133	1/1	0.75	0.22	64,64,64,64	0
54	MG	AA	1801	1/1	0.75	0.28	94,94,94,94	0
54	MG	AA	1654	1/1	0.75	0.21	54,54,54,54	0
54	MG	CP	201	1/1	0.75	0.32	118,118,118,118	0
54	MG	CA	1660	1/1	0.75	0.14	74,74,74,74	0
54	MG	BA	3388	1/1	0.75	0.18	95,95,95,95	0
54	MG	BA	3137	1/1	0.75	0.36	88,88,88,88	0
54	MG	BA	3456	1/1	0.75	0.18	86,86,86,86	0
54	MG	DA	3195	1/1	0.75	0.28	77,77,77,77	0
54	MG	AA	1740	1/1	0.75	0.10	69,69,69,69	0
54	MG	CA	1915	1/1	0.75	0.18	133,133,133,133	0
54	MG	CA	1754	1/1	0.75	0.21	82,82,82,82	0
54	MG	DA	3542	1/1	0.75	0.19	92,92,92,92	0
54	MG	AA	1979	1/1	0.75	0.15	75,75,75,75	0
54	MG	BA	3237	1/1	0.75	0.12	82,82,82,82	0
54	MG	DA	3715	1/1	0.75	0.17	91,91,91,91	0
54	MG	BA	3081	1/1	0.75	0.28	72,72,72,72	0
54	MG	DA	3227	1/1	0.75	0.26	66,66,66,66	0
54	MG	CA	1765	1/1	0.75	0.23	118,118,118,118	0
54	MG	DB	224	1/1	0.75	0.12	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1612	1/1	0.75	0.27	68,68,68,68	0
54	MG	DA	3581	1/1	0.75	0.14	139,139,139,139	0
54	MG	AA	1734	1/1	0.75	0.18	60,60,60,60	0
54	MG	CD	121	1/1	0.75	0.13	112,112,112,112	0
54	MG	CD	122	1/1	0.75	0.07	97,97,97,97	0
54	MG	BA	3254	1/1	0.75	0.28	101,101,101,101	0
54	MG	D1	205	1/1	0.75	0.15	110,110,110,110	0
54	MG	CA	1604	1/1	0.75	0.26	66,66,66,66	0
54	MG	AA	1960	1/1	0.75	0.19	98,98,98,98	0
54	MG	DA	3283	1/1	0.75	0.14	81,81,81,81	0
54	MG	DA	3284	1/1	0.75	0.22	75,75,75,75	0
54	MG	DA	3464	1/1	0.75	0.28	93,93,93,93	0
54	MG	DA	3617	1/1	0.76	0.26	91,91,91,91	0
54	MG	DA	3467	1/1	0.76	0.24	61,61,61,61	0
54	MG	CA	1763	1/1	0.76	0.23	72,72,72,72	0
54	MG	AA	1621	1/1	0.76	0.19	50,50,50,50	0
54	MG	CA	1917	1/1	0.76	0.12	95,95,95,95	0
54	MG	BA	2910	1/1	0.76	0.05	149,149,149,149	0
54	MG	DA	3630	1/1	0.76	0.12	67,67,67,67	0
54	MG	AA	2027	1/1	0.76	0.25	81,81,81,81	0
54	MG	DA	3355	1/1	0.76	0.11	60,60,60,60	0
54	MG	AA	1902	1/1	0.76	0.11	107,107,107,107	0
54	MG	BA	3138	1/1	0.76	0.22	85,85,85,85	0
54	MG	DA	3499	1/1	0.76	0.19	87,87,87,87	0
54	MG	CA	1637	1/1	0.76	0.19	70,70,70,70	0
54	MG	BA	3580	1/1	0.76	0.13	89,89,89,89	0
54	MG	BA	3348	1/1	0.76	0.21	99,99,99,99	0
54	MG	BB	201	1/1	0.76	0.15	69,69,69,69	0
54	MG	BA	3465	1/1	0.76	0.08	92,92,92,92	0
54	MG	DA	3803	1/1	0.76	0.08	99,99,99,99	0
54	MG	AC	106	1/1	0.76	0.16	79,79,79,79	0
54	MG	CD	120	1/1	0.76	0.11	110,110,110,110	0
54	MG	AA	1841	1/1	0.76	0.16	100,100,100,100	0
54	MG	DA	3690	1/1	0.76	0.21	83,83,83,83	0
54	MG	DA	3400	1/1	0.76	0.20	73,73,73,73	0
54	MG	CA	1880	1/1	0.76	0.15	130,130,130,130	0
54	MG	DA	3534	1/1	0.76	0.24	86,86,86,86	0
54	MG	BB	212	1/1	0.76	0.15	81,81,81,81	0
54	MG	BA	3115	1/1	0.76	0.15	89,89,89,89	0
54	MG	AA	1758	1/1	0.76	0.15	108,108,108,108	0
54	MG	BA	3036	1/1	0.76	0.21	41,41,41,41	0
54	MG	BA	3167	1/1	0.76	0.35	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3072	1/1	0.76	0.21	66,66,66,66	0
54	MG	BE	307	1/1	0.76	0.35	84,84,84,84	0
54	MG	DA	3579	1/1	0.76	0.24	94,94,94,94	0
54	MG	DA	3275	1/1	0.76	0.12	62,62,62,62	0
54	MG	BA	3380	1/1	0.76	0.28	71,71,71,71	0
54	MG	CA	1976	1/1	0.76	0.10	103,103,103,103	0
54	MG	CA	1983	1/1	0.76	0.09	92,92,92,92	0
54	MG	BA	3491	1/1	0.76	0.22	104,104,104,104	0
54	MG	DA	3126	1/1	0.76	0.25	65,65,65,65	0
54	MG	DA	3301	1/1	0.76	0.17	86,86,86,86	0
54	MG	AA	2016	1/1	0.76	0.29	102,102,102,102	0
54	MG	DA	3130	1/1	0.76	0.36	89,89,89,89	0
54	MG	DA	3466	1/1	0.76	0.15	85,85,85,85	0
54	MG	CA	1882	1/1	0.77	0.16	106,106,106,106	0
54	MG	AA	1671	1/1	0.77	0.13	66,66,66,66	0
54	MG	CA	1814	1/1	0.77	0.30	84,84,84,84	0
54	MG	DA	3024	1/1	0.77	0.08	39,39,39,39	0
54	MG	BA	3037	1/1	0.77	0.19	61,61,61,61	0
54	MG	BA	3430	1/1	0.77	0.15	90,90,90,90	0
54	MG	DA	3261	1/1	0.77	0.26	102,102,102,102	0
54	MG	CA	1974	1/1	0.77	0.12	88,88,88,88	0
54	MG	DA	3078	1/1	0.77	0.16	77,77,77,77	0
54	MG	CA	1820	1/1	0.77	0.19	102,102,102,102	0
54	MG	CA	1622	1/1	0.77	0.22	68,68,68,68	0
54	MG	DA	3568	1/1	0.77	0.14	93,93,93,93	0
54	MG	BA	3535	1/1	0.77	0.08	94,94,94,94	0
54	MG	CA	1984	1/1	0.77	0.19	106,106,106,106	0
54	MG	AA	1741	1/1	0.77	0.18	93,93,93,93	0
54	MG	AA	1610	1/1	0.77	0.26	68,68,68,68	0
54	MG	AA	1895	1/1	0.77	0.12	133,133,133,133	0
54	MG	CA	1772	1/1	0.77	0.21	82,82,82,82	0
54	MG	DA	3457	1/1	0.77	0.11	74,74,74,74	0
54	MG	AA	1896	1/1	0.77	0.18	93,93,93,93	0
54	MG	DB	215	1/1	0.77	0.22	99,99,99,99	0
54	MG	DA	3718	1/1	0.77	0.26	88,88,88,88	0
54	MG	AA	1765	1/1	0.77	0.22	83,83,83,83	0
54	MG	CA	1655	1/1	0.77	0.17	68,68,68,68	0
54	MG	CA	1849	1/1	0.77	0.18	91,91,91,91	0
54	MG	BA	3082	1/1	0.77	0.18	59,59,59,59	0
54	MG	AA	1885	1/1	0.77	0.08	113,113,113,113	0
54	MG	CC	105	1/1	0.77	0.23	88,88,88,88	0
54	MG	DA	3356	1/1	0.77	0.24	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1744	1/1	0.77	0.19	77,77,77,77	0
54	MG	BA	3015	1/1	0.77	0.16	70,70,70,70	0
54	MG	DA	3493	1/1	0.77	0.18	78,78,78,78	0
54	MG	BA	3511	1/1	0.77	0.08	140,140,140,140	0
54	MG	BA	3373	1/1	0.77	0.30	105,105,105,105	0
54	MG	CA	1676	1/1	0.77	0.24	83,83,83,83	0
54	MG	DA	3370	1/1	0.77	0.20	79,79,79,79	0
54	MG	CA	1876	1/1	0.77	0.12	83,83,83,83	0
54	MG	AA	1839	1/1	0.77	0.12	91,91,91,91	0
54	MG	CA	1689	1/1	0.77	0.13	62,62,62,62	0
54	MG	AA	1607	1/1	0.78	0.24	68,68,68,68	0
54	MG	AA	1694	1/1	0.78	0.15	66,66,66,66	0
54	MG	CS	101	1/1	0.78	0.21	82,82,82,82	0
54	MG	BE	306	1/1	0.78	0.12	72,72,72,72	0
54	MG	BA	3462	1/1	0.78	0.23	77,77,77,77	0
54	MG	CA	1695	1/1	0.78	0.16	62,62,62,62	0
54	MG	DA	3727	1/1	0.78	0.33	106,106,106,106	0
54	MG	CA	1916	1/1	0.78	0.13	114,114,114,114	0
54	MG	BA	3315	1/1	0.78	0.19	84,84,84,84	0
54	MG	DA	3202	1/1	0.78	0.30	49,49,49,49	0
54	MG	CA	1845	1/1	0.78	0.21	82,82,82,82	0
54	MG	DA	3404	1/1	0.78	0.26	94,94,94,94	0
54	MG	AA	1864	1/1	0.78	0.23	87,87,87,87	0
54	MG	DA	3412	1/1	0.78	0.20	105,105,105,105	0
54	MG	CC	107	1/1	0.78	0.14	102,102,102,102	0
54	MG	DA	3766	1/1	0.78	0.15	81,81,81,81	0
54	MG	AA	1809	1/1	0.78	0.17	85,85,85,85	0
54	MG	BA	3402	1/1	0.78	0.21	96,96,96,96	0
54	MG	DA	3591	1/1	0.78	0.11	81,81,81,81	0
54	MG	BA	3403	1/1	0.78	0.25	89,89,89,89	0
54	MG	AA	1661	1/1	0.78	0.45	93,93,93,93	0
54	MG	CA	1929	1/1	0.78	0.22	92,92,92,92	0
54	MG	DA	3609	1/1	0.78	0.19	86,86,86,86	0
54	MG	DA	3610	1/1	0.78	0.20	99,99,99,99	0
54	MG	DA	3439	1/1	0.78	0.32	104,104,104,104	0
54	MG	CA	1781	1/1	0.78	0.29	118,118,118,118	0
54	MG	CA	1938	1/1	0.78	0.22	85,85,85,85	0
54	MG	CA	1855	1/1	0.78	0.12	99,99,99,99	0
54	MG	AA	2022	1/1	0.78	0.10	117,117,117,117	0
54	MG	AA	1746	1/1	0.78	0.18	81,81,81,81	0
54	MG	BA	3352	1/1	0.78	0.11	112,112,112,112	0
54	MG	DA	3271	1/1	0.78	0.39	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1713	1/1	0.78	0.23	94,94,94,94	0
54	MG	DA	3629	1/1	0.78	0.27	72,72,72,72	0
54	MG	CA	1874	1/1	0.78	0.08	144,144,144,144	0
54	MG	BA	3106	1/1	0.78	0.33	80,80,80,80	0
54	MG	DA	3059	1/1	0.78	0.32	58,58,58,58	0
54	MG	AA	1676	1/1	0.78	0.16	96,96,96,96	0
54	MG	BA	2967	1/1	0.78	0.23	60,60,60,60	0
54	MG	AA	2005	1/1	0.78	0.10	96,96,96,96	0
54	MG	DA	3661	1/1	0.78	0.16	79,79,79,79	0
54	MG	DA	3666	1/1	0.78	0.16	78,78,78,78	0
54	MG	AA	1980	1/1	0.78	0.08	136,136,136,136	0
54	MG	DA	3480	1/1	0.78	0.12	76,76,76,76	0
54	MG	DA	3310	1/1	0.78	0.28	66,66,66,66	0
54	MG	AA	2011	1/1	0.78	0.23	120,120,120,120	0
54	MG	DA	3317	1/1	0.78	0.12	91,91,91,91	0
54	MG	DA	3094	1/1	0.78	0.16	49,49,49,49	0
54	MG	DA	3323	1/1	0.78	0.17	105,105,105,105	0
54	MG	DA	3683	1/1	0.78	0.16	100,100,100,100	0
54	MG	AA	1925	1/1	0.78	0.11	87,87,87,87	0
54	MG	DA	3109	1/1	0.78	0.35	103,103,103,103	0
54	MG	CA	1889	1/1	0.78	0.13	89,89,89,89	0
54	MG	DA	3349	1/1	0.78	0.26	56,56,56,56	0
54	MG	CA	1978	1/1	0.78	0.09	73,73,73,73	0
54	MG	BA	3446	1/1	0.78	0.14	74,74,74,74	0
54	MG	BA	3448	1/1	0.78	0.07	95,95,95,95	0
54	MG	AA	1729	1/1	0.78	0.14	87,87,87,87	0
54	MG	CA	1749	1/1	0.78	0.18	69,69,69,69	0
54	MG	DA	3156	1/1	0.78	0.32	95,95,95,95	0
54	MG	DA	3536	1/1	0.79	0.16	94,94,94,94	0
54	MG	DA	3538	1/1	0.79	0.19	91,91,91,91	0
54	MG	BA	3445	1/1	0.79	0.25	96,96,96,96	0
54	MG	BA	3386	1/1	0.79	0.15	85,85,85,85	0
54	MG	CA	1831	1/1	0.79	0.17	95,95,95,95	0
54	MG	BA	3255	1/1	0.79	0.14	93,93,93,93	0
54	MG	DA	3387	1/1	0.79	0.26	83,83,83,83	0
54	MG	BA	3087	1/1	0.79	0.18	72,72,72,72	0
54	MG	DA	3740	1/1	0.79	0.19	88,88,88,88	0
54	MG	AA	1972	1/1	0.79	0.17	78,78,78,78	0
54	MG	BA	3217	1/1	0.79	0.24	86,86,86,86	0
54	MG	DA	3747	1/1	0.79	0.17	90,90,90,90	0
54	MG	BA	3459	1/1	0.79	0.14	110,110,110,110	0
54	MG	BA	3342	1/1	0.79	0.32	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3761	1/1	0.79	0.10	112,112,112,112	0
54	MG	CD	106	1/1	0.79	0.10	94,94,94,94	0
54	MG	DA	3226	1/1	0.79	0.16	74,74,74,74	0
54	MG	BA	3343	1/1	0.79	0.18	73,73,73,73	0
54	MG	AA	1907	1/1	0.79	0.12	106,106,106,106	0
54	MG	BA	3409	1/1	0.79	0.14	100,100,100,100	0
54	MG	DA	3435	1/1	0.79	0.10	90,90,90,90	0
54	MG	CA	1932	1/1	0.79	0.12	94,94,94,94	0
54	MG	CA	1937	1/1	0.79	0.17	81,81,81,81	0
54	MG	BA	3273	1/1	0.79	0.10	72,72,72,72	0
54	MG	BZ	101	1/1	0.79	0.12	92,92,92,92	0
54	MG	AC	103	1/1	0.79	0.09	86,86,86,86	0
54	MG	DA	2981	1/1	0.79	0.26	60,60,60,60	0
54	MG	DA	3447	1/1	0.79	0.12	84,84,84,84	0
54	MG	DA	2991	1/1	0.79	0.31	75,75,75,75	0
54	MG	DA	3450	1/1	0.79	0.19	98,98,98,98	0
54	MG	BA	3051	1/1	0.79	0.26	74,74,74,74	0
54	MG	CA	1616	1/1	0.79	0.14	68,68,68,68	0
54	MG	CA	1952	1/1	0.79	0.18	134,134,134,134	0
54	MG	BA	3367	1/1	0.79	0.27	111,111,111,111	0
54	MG	AA	1759	1/1	0.79	0.24	77,77,77,77	0
54	MG	DA	3295	1/1	0.79	0.22	104,104,104,104	0
54	MG	DA	3645	1/1	0.79	0.35	88,88,88,88	0
54	MG	DA	3647	1/1	0.79	0.18	98,98,98,98	0
54	MG	BA	3483	1/1	0.79	0.13	103,103,103,103	0
54	MG	CA	1800	1/1	0.79	0.14	97,97,97,97	0
54	MG	BA	3488	1/1	0.79	0.15	96,96,96,96	0
54	MG	CA	1965	1/1	0.79	0.19	92,92,92,92	0
54	MG	CA	1730	1/1	0.79	0.17	66,66,66,66	0
54	MG	DA	3089	1/1	0.79	0.29	66,66,66,66	0
54	MG	CA	1969	1/1	0.79	0.12	86,86,86,86	0
54	MG	CA	1733	1/1	0.79	0.14	67,67,67,67	0
54	MG	BA	3370	1/1	0.79	0.09	70,70,70,70	0
54	MG	CA	1736	1/1	0.79	0.17	89,89,89,89	0
54	MG	DA	3328	1/1	0.79	0.18	93,93,93,93	0
54	MG	CA	1892	1/1	0.79	0.08	99,99,99,99	0
54	MG	DB	225	1/1	0.79	0.17	84,84,84,84	0
54	MG	DA	3343	1/1	0.79	0.18	86,86,86,86	0
54	MG	BA	3284	1/1	0.79	0.10	74,74,74,74	0
54	MG	AA	2028	1/1	0.79	0.18	102,102,102,102	0
54	MG	CA	1817	1/1	0.79	0.26	105,105,105,105	0
54	MG	DA	3132	1/1	0.79	0.16	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DH	201	1/1	0.79	0.21	77,77,77,77	0
54	MG	D0	204	1/1	0.79	0.08	95,95,95,95	0
54	MG	CG	301	1/1	0.79	0.39	113,113,113,113	0
54	MG	BA	2987	1/1	0.79	0.27	57,57,57,57	0
54	MG	CM	201	1/1	0.79	0.09	91,91,91,91	0
54	MG	AA	1855	1/1	0.79	0.18	101,101,101,101	0
54	MG	AA	1748	1/1	0.79	0.10	85,85,85,85	0
54	MG	AA	1771	1/1	0.79	0.22	70,70,70,70	0
54	MG	CA	1911	1/1	0.79	0.08	123,123,123,123	0
54	MG	AA	1680	1/1	0.80	0.16	70,70,70,70	0
54	MG	CA	1899	1/1	0.80	0.25	66,66,66,66	0
54	MG	DA	3741	1/1	0.80	0.17	97,97,97,97	0
54	MG	CA	1977	1/1	0.80	0.10	100,100,100,100	0
54	MG	CA	1659	1/1	0.80	0.15	101,101,101,101	0
54	MG	AA	1845	1/1	0.80	0.13	88,88,88,88	0
54	MG	DA	3294	1/1	0.80	0.19	78,78,78,78	0
54	MG	BB	215	1/1	0.80	0.09	65,65,65,65	0
54	MG	DA	3104	1/1	0.80	0.25	79,79,79,79	0
54	MG	AS	101	1/1	0.80	0.34	84,84,84,84	0
54	MG	CA	1751	1/1	0.80	0.12	96,96,96,96	0
54	MG	CA	1826	1/1	0.80	0.20	107,107,107,107	0
54	MG	DA	3124	1/1	0.80	0.16	66,66,66,66	0
54	MG	CA	1752	1/1	0.80	0.15	90,90,90,90	0
54	MG	BA	3279	1/1	0.80	0.21	85,85,85,85	0
54	MG	AA	1930	1/1	0.80	0.23	82,82,82,82	0
54	MG	DA	3627	1/1	0.80	0.08	87,87,87,87	0
54	MG	CA	1757	1/1	0.80	0.07	79,79,79,79	0
54	MG	BD	302	1/1	0.80	0.12	69,69,69,69	0
54	MG	BA	3365	1/1	0.80	0.15	77,77,77,77	0
54	MG	DA	3335	1/1	0.80	0.33	93,93,93,93	0
54	MG	DA	3142	1/1	0.80	0.17	61,61,61,61	0
54	MG	AA	1990	1/1	0.80	0.12	97,97,97,97	0
54	MG	AA	2031	1/1	0.80	0.23	86,86,86,86	0
54	MG	DA	3350	1/1	0.80	0.18	109,109,109,109	0
54	MG	BA	2943	1/1	0.80	0.23	44,44,44,44	0
54	MG	BA	3559	1/1	0.80	0.20	104,104,104,104	0
54	MG	BA	3286	1/1	0.80	0.21	80,80,80,80	0
54	MG	AA	1963	1/1	0.80	0.25	103,103,103,103	0
54	MG	CA	1854	1/1	0.80	0.27	79,79,79,79	0
54	MG	DA	3364	1/1	0.80	0.28	79,79,79,79	0
54	MG	AA	1831	1/1	0.80	0.12	76,76,76,76	0
54	MG	AA	1883	1/1	0.80	0.11	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3198	1/1	0.80	0.12	82,82,82,82	0
54	MG	BA	3302	1/1	0.80	0.10	61,61,61,61	0
54	MG	AA	1920	1/1	0.80	0.12	115,115,115,115	0
54	MG	BA	3495	1/1	0.80	0.48	97,97,97,97	0
54	MG	AA	1645	1/1	0.80	0.22	55,55,55,55	0
54	MG	BA	3256	1/1	0.80	0.09	64,64,64,64	0
54	MG	BA	3502	1/1	0.80	0.12	91,91,91,91	0
54	MG	CA	1728	1/1	0.80	0.28	85,85,85,85	0
54	MG	DA	3396	1/1	0.80	0.11	85,85,85,85	0
54	MG	CA	1648	1/1	0.80	0.28	79,79,79,79	0
54	MG	DA	3705	1/1	0.80	0.18	97,97,97,97	0
54	MG	DA	3706	1/1	0.80	0.11	78,78,78,78	0
54	MG	DA	3708	1/1	0.80	0.19	152,152,152,152	0
54	MG	CA	1805	1/1	0.80	0.12	89,89,89,89	0
54	MG	DA	3559	1/1	0.80	0.22	103,103,103,103	0
54	MG	DD	301	1/1	0.80	0.31	43,43,43,43	0
54	MG	AA	1898	1/1	0.80	0.07	102,102,102,102	0
54	MG	DG	201	1/1	0.80	0.25	76,76,76,76	0
54	MG	DA	3014	1/1	0.80	0.40	68,68,68,68	0
54	MG	BA	3334	1/1	0.80	0.20	75,75,75,75	0
54	MG	AA	1642	1/1	0.80	0.14	64,64,64,64	0
54	MG	DA	3415	1/1	0.80	0.26	77,77,77,77	0
54	MG	AA	1695	1/1	0.80	0.25	73,73,73,73	0
54	MG	DA	3722	1/1	0.80	0.14	166,166,166,166	0
54	MG	CA	1895	1/1	0.80	0.11	87,87,87,87	0
54	MG	DA	3268	1/1	0.80	0.37	73,73,73,73	0
54	MG	CA	1973	1/1	0.80	0.11	116,116,116,116	0
54	MG	BB	209	1/1	0.80	0.17	59,59,59,59	0
54	MG	BA	2991	1/1	0.81	0.19	76,76,76,76	0
54	MG	BA	2992	1/1	0.81	0.19	63,63,63,63	0
54	MG	BA	2996	1/1	0.81	0.20	68,68,68,68	0
54	MG	BA	3345	1/1	0.81	0.10	80,80,80,80	0
54	MG	AA	1732	1/1	0.81	0.15	89,89,89,89	0
54	MG	DA	3732	1/1	0.81	0.27	94,94,94,94	0
54	MG	AA	1970	1/1	0.81	0.19	98,98,98,98	0
54	MG	CC	112	1/1	0.81	0.11	88,88,88,88	0
54	MG	AW	204	1/1	0.81	0.17	105,105,105,105	0
54	MG	AA	1798	1/1	0.81	0.17	79,79,79,79	0
54	MG	CA	1919	1/1	0.81	0.13	112,112,112,112	0
54	MG	AA	1838	1/1	0.81	0.33	77,77,77,77	0
54	MG	AA	1978	1/1	0.81	0.07	99,99,99,99	0
54	MG	BA	3152	1/1	0.81	0.18	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BG	201	1/1	0.81	0.10	117,117,117,117	0
54	MG	DA	3762	1/1	0.81	0.12	119,119,119,119	0
54	MG	AA	2012	1/1	0.81	0.11	117,117,117,117	0
54	MG	B0	201	1/1	0.81	0.21	74,74,74,74	0
54	MG	DA	2965	1/1	0.81	0.28	49,49,49,49	0
54	MG	BA	3447	1/1	0.81	0.10	109,109,109,109	0
54	MG	BA	3526	1/1	0.81	0.08	100,100,100,100	0
54	MG	BA	3534	1/1	0.81	0.15	93,93,93,93	0
54	MG	AA	1603	1/1	0.81	0.31	54,54,54,54	0
54	MG	AA	2037	1/1	0.81	0.15	97,97,97,97	0
54	MG	BA	3541	1/1	0.81	0.16	79,79,79,79	0
54	MG	CA	1609	1/1	0.81	0.28	54,54,54,54	0
54	MG	DA	3456	1/1	0.81	0.39	92,92,92,92	0
54	MG	BA	3544	1/1	0.81	0.23	71,71,71,71	0
54	MG	BA	3545	1/1	0.81	0.13	82,82,82,82	0
54	MG	AA	1808	1/1	0.81	0.10	92,92,92,92	0
54	MG	DA	3073	1/1	0.81	0.26	73,73,73,73	0
54	MG	DA	3641	1/1	0.81	0.19	76,76,76,76	0
54	MG	CA	1633	1/1	0.81	0.25	70,70,70,70	0
54	MG	CA	1750	1/1	0.81	0.10	80,80,80,80	0
54	MG	CA	1634	1/1	0.81	0.19	54,54,54,54	0
54	MG	AA	1637	1/1	0.81	0.33	82,82,82,82	0
54	MG	CA	1638	1/1	0.81	0.24	60,60,60,60	0
54	MG	CA	1967	1/1	0.81	0.08	113,113,113,113	0
54	MG	AA	1830	1/1	0.81	0.19	88,88,88,88	0
54	MG	DA	3665	1/1	0.81	0.27	88,88,88,88	0
54	MG	AA	1631	1/1	0.81	0.24	60,60,60,60	0
54	MG	AA	1901	1/1	0.81	0.15	89,89,89,89	0
54	MG	AA	1781	1/1	0.81	0.25	98,98,98,98	0
54	MG	BA	3298	1/1	0.81	0.14	95,95,95,95	0
54	MG	AA	1833	1/1	0.81	0.19	88,88,88,88	0
54	MG	BA	3109	1/1	0.81	0.19	73,73,73,73	0
54	MG	BA	3398	1/1	0.81	0.10	131,131,131,131	0
54	MG	DA	3506	1/1	0.81	0.26	63,63,63,63	0
54	MG	BA	3476	1/1	0.81	0.15	97,97,97,97	0
54	MG	DA	3686	1/1	0.81	0.15	93,93,93,93	0
54	MG	CA	1883	1/1	0.81	0.07	80,80,80,80	0
54	MG	AA	1923	1/1	0.81	0.19	85,85,85,85	0
54	MG	DA	3516	1/1	0.81	0.14	99,99,99,99	0
54	MG	DA	3141	1/1	0.81	0.12	78,78,78,78	0
54	MG	BA	3319	1/1	0.81	0.29	108,108,108,108	0
54	MG	BA	3581	1/1	0.81	0.23	125,125,125,125	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3116	1/1	0.81	0.31	64,64,64,64	0
54	MG	CA	1674	1/1	0.81	0.15	73,73,73,73	0
54	MG	AA	1847	1/1	0.81	0.18	91,91,91,91	0
54	MG	AA	1906	1/1	0.81	0.19	86,86,86,86	0
54	MG	DO	203	1/1	0.81	0.23	100,100,100,100	0
54	MG	DA	3711	1/1	0.81	0.12	102,102,102,102	0
54	MG	DA	3371	1/1	0.81	0.20	79,79,79,79	0
54	MG	DA	3187	1/1	0.81	0.23	64,64,64,64	0
54	MG	BA	3125	1/1	0.81	0.11	94,94,94,94	0
54	MG	CA	1694	1/1	0.81	0.18	55,55,55,55	0
54	MG	DA	3557	1/1	0.81	0.19	97,97,97,97	0
54	MG	CA	1798	1/1	0.81	0.14	112,112,112,112	0
54	MG	D3	104	1/1	0.81	0.08	75,75,75,75	0
54	MG	BA	3492	1/1	0.81	0.08	86,86,86,86	0
54	MG	AA	1701	1/1	0.82	0.26	72,72,72,72	0
54	MG	CA	1644	1/1	0.82	0.19	52,52,52,52	0
54	MG	AA	1663	1/1	0.82	0.20	71,71,71,71	0
54	MG	DA	3445	1/1	0.82	0.20	95,95,95,95	0
54	MG	DA	3745	1/1	0.82	0.18	95,95,95,95	0
54	MG	BA	3357	1/1	0.82	0.15	66,66,66,66	0
54	MG	AA	1852	1/1	0.82	0.23	66,66,66,66	0
54	MG	DA	3313	1/1	0.82	0.09	71,71,71,71	0
54	MG	DA	3314	1/1	0.82	0.12	107,107,107,107	0
54	MG	DA	3754	1/1	0.82	0.24	99,99,99,99	0
54	MG	AA	1998	1/1	0.82	0.17	98,98,98,98	0
54	MG	CX	101	1/1	0.82	0.13	90,90,90,90	0
54	MG	AA	1814	1/1	0.82	0.19	63,63,63,63	0
54	MG	AA	1614	1/1	0.82	0.26	73,73,73,73	0
54	MG	BA	3089	1/1	0.82	0.32	74,74,74,74	0
54	MG	CA	1658	1/1	0.82	0.24	76,76,76,76	0
54	MG	AA	1941	1/1	0.82	0.10	93,93,93,93	0
54	MG	AA	1708	1/1	0.82	0.16	70,70,70,70	0
54	MG	DA	3179	1/1	0.82	0.19	74,74,74,74	0
54	MG	DA	3473	1/1	0.82	0.19	87,87,87,87	0
54	MG	DA	3474	1/1	0.82	0.33	89,89,89,89	0
54	MG	DA	3642	1/1	0.82	0.18	81,81,81,81	0
54	MG	BB	217	1/1	0.82	0.22	102,102,102,102	0
54	MG	BA	3199	1/1	0.82	0.30	84,84,84,84	0
54	MG	AA	1679	1/1	0.82	0.13	74,74,74,74	0
54	MG	DA	3490	1/1	0.82	0.23	90,90,90,90	0
54	MG	DA	3655	1/1	0.82	0.17	94,94,94,94	0
54	MG	BA	3377	1/1	0.82	0.07	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BE	301	1/1	0.82	0.13	60,60,60,60	0
54	MG	BA	3290	1/1	0.82	0.05	91,91,91,91	0
54	MG	DA	3359	1/1	0.82	0.18	70,70,70,70	0
54	MG	DA	3361	1/1	0.82	0.26	75,75,75,75	0
54	MG	AA	1824	1/1	0.82	0.22	85,85,85,85	0
54	MG	CA	1864	1/1	0.82	0.23	90,90,90,90	0
54	MG	BA	3206	1/1	0.82	0.19	67,67,67,67	0
54	MG	BA	2995	1/1	0.82	0.23	52,52,52,52	0
54	MG	AA	1710	1/1	0.82	0.12	78,78,78,78	0
54	MG	AA	1711	1/1	0.82	0.36	86,86,86,86	0
54	MG	DA	3681	1/1	0.82	0.22	92,92,92,92	0
54	MG	DB	212	1/1	0.82	0.22	75,75,75,75	0
54	MG	AA	1890	1/1	0.82	0.10	72,72,72,72	0
54	MG	AA	1648	1/1	0.82	0.18	68,68,68,68	0
54	MG	BT	102	1/1	0.82	0.14	100,100,100,100	0
54	MG	BA	3472	1/1	0.82	0.09	125,125,125,125	0
54	MG	DA	3232	1/1	0.82	0.18	67,67,67,67	0
54	MG	AC	107	1/1	0.82	0.14	114,114,114,114	0
54	MG	CA	1711	1/1	0.82	0.34	75,75,75,75	0
54	MG	AA	1650	1/1	0.82	0.10	74,74,74,74	0
54	MG	DA	3397	1/1	0.82	0.23	77,77,77,77	0
54	MG	BA	3324	1/1	0.82	0.26	87,87,87,87	0
54	MG	DA	3247	1/1	0.82	0.10	45,45,45,45	0
54	MG	BA	3135	1/1	0.82	0.18	62,62,62,62	0
54	MG	DA	3405	1/1	0.82	0.16	91,91,91,91	0
54	MG	BA	3407	1/1	0.82	0.24	106,106,106,106	0
54	MG	DA	3411	1/1	0.82	0.21	86,86,86,86	0
54	MG	DA	3567	1/1	0.82	0.22	91,91,91,91	0
54	MG	AA	1779	1/1	0.82	0.06	114,114,114,114	0
54	MG	BA	2904	1/1	0.82	0.07	101,101,101,101	0
54	MG	CA	1631	1/1	0.82	0.25	68,68,68,68	0
54	MG	BA	3064	1/1	0.82	0.17	76,76,76,76	0
54	MG	DA	3278	1/1	0.82	0.17	78,78,78,78	0
54	MG	BA	3069	1/1	0.82	0.10	48,48,48,48	0
54	MG	CA	1635	1/1	0.82	0.32	86,86,86,86	0
54	MG	DA	3106	1/1	0.82	0.20	44,44,44,44	0
54	MG	BA	3421	1/1	0.82	0.20	88,88,88,88	0
54	MG	AA	1638	1/1	0.82	0.23	61,61,61,61	0
54	MG	CA	1740	1/1	0.82	0.08	104,104,104,104	0
54	MG	BA	3086	1/1	0.83	0.15	50,50,50,50	0
54	MG	CA	1662	1/1	0.83	0.15	61,61,61,61	0
54	MG	CA	1981	1/1	0.83	0.07	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1663	1/1	0.83	0.25	81,81,81,81	0
54	MG	DA	3583	1/1	0.83	0.24	99,99,99,99	0
54	MG	BA	3438	1/1	0.83	0.16	54,54,54,54	0
54	MG	DA	3438	1/1	0.83	0.13	83,83,83,83	0
54	MG	B0	202	1/1	0.83	0.28	111,111,111,111	0
54	MG	CA	1913	1/1	0.83	0.10	101,101,101,101	0
54	MG	AD	103	1/1	0.83	0.11	101,101,101,101	0
54	MG	BA	2981	1/1	0.83	0.20	58,58,58,58	0
54	MG	DA	3598	1/1	0.83	0.07	79,79,79,79	0
54	MG	BA	3336	1/1	0.83	0.13	88,88,88,88	0
54	MG	CQ	102	1/1	0.83	0.16	111,111,111,111	0
54	MG	DA	3306	1/1	0.83	0.15	65,65,65,65	0
54	MG	DA	3448	1/1	0.83	0.21	103,103,103,103	0
54	MG	CQ	103	1/1	0.83	0.12	122,122,122,122	0
54	MG	BA	3221	1/1	0.83	0.24	82,82,82,82	0
54	MG	BA	3094	1/1	0.83	0.14	84,84,84,84	0
54	MG	DA	3622	1/1	0.83	0.28	84,84,84,84	0
54	MG	BA	3145	1/1	0.83	0.25	74,74,74,74	0
54	MG	DA	3315	1/1	0.83	0.25	81,81,81,81	0
54	MG	DA	3780	1/1	0.83	0.11	72,72,72,72	0
54	MG	AA	1875	1/1	0.83	0.10	113,113,113,113	0
54	MG	DA	3783	1/1	0.83	0.15	84,84,84,84	0
54	MG	BA	3575	1/1	0.83	0.11	82,82,82,82	0
54	MG	CA	1612	1/1	0.83	0.11	37,37,37,37	0
54	MG	DA	3136	1/1	0.83	0.19	53,53,53,53	0
54	MG	BA	3455	1/1	0.83	0.16	78,78,78,78	0
54	MG	BA	3509	1/1	0.83	0.15	107,107,107,107	0
54	MG	BA	3056	1/1	0.83	0.19	71,71,71,71	0
54	MG	BA	3057	1/1	0.83	0.09	65,65,65,65	0
54	MG	BA	3063	1/1	0.83	0.28	63,63,63,63	0
54	MG	CC	109	1/1	0.83	0.20	99,99,99,99	0
54	MG	DA	3478	1/1	0.83	0.23	71,71,71,71	0
54	MG	AA	1678	1/1	0.83	0.19	57,57,57,57	0
54	MG	DA	3481	1/1	0.83	0.23	91,91,91,91	0
54	MG	BA	3362	1/1	0.83	0.10	68,68,68,68	0
54	MG	AS	102	1/1	0.83	0.22	90,90,90,90	0
54	MG	CA	1946	1/1	0.83	0.09	91,91,91,91	0
54	MG	CA	1790	1/1	0.83	0.18	76,76,76,76	0
54	MG	BA	3469	1/1	0.83	0.18	70,70,70,70	0
54	MG	CA	1720	1/1	0.83	0.10	94,94,94,94	0
54	MG	AA	1608	1/1	0.83	0.29	67,67,67,67	0
54	MG	AA	1922	1/1	0.83	0.35	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DB	211	1/1	0.83	0.18	78,78,78,78	0
54	MG	CA	1958	1/1	0.83	0.11	106,106,106,106	0
54	MG	DA	3211	1/1	0.83	0.07	71,71,71,71	0
54	MG	DB	214	1/1	0.83	0.08	85,85,85,85	0
54	MG	CA	1647	1/1	0.83	0.21	81,81,81,81	0
54	MG	DA	3216	1/1	0.83	0.17	88,88,88,88	0
54	MG	CA	1962	1/1	0.83	0.10	90,90,90,90	0
54	MG	BA	3184	1/1	0.83	0.29	116,116,116,116	0
54	MG	CA	1806	1/1	0.83	0.14	106,106,106,106	0
54	MG	DA	3008	1/1	0.83	0.15	34,34,34,34	0
54	MG	BA	3539	1/1	0.83	0.21	100,100,100,100	0
54	MG	DA	3381	1/1	0.83	0.11	73,73,73,73	0
54	MG	BA	3317	1/1	0.83	0.16	63,63,63,63	0
54	MG	DA	3017	1/1	0.83	0.19	43,43,43,43	0
54	MG	BA	3543	1/1	0.83	0.10	72,72,72,72	0
54	MG	AA	1976	1/1	0.83	0.13	86,86,86,86	0
54	MG	DA	3398	1/1	0.83	0.35	100,100,100,100	0
54	MG	AA	1860	1/1	0.83	0.12	93,93,93,93	0
54	MG	DA	3038	1/1	0.83	0.17	50,50,50,50	0
54	MG	DA	3548	1/1	0.83	0.17	86,86,86,86	0
54	MG	DA	3043	1/1	0.83	0.16	59,59,59,59	0
54	MG	DA	3048	1/1	0.83	0.21	67,67,67,67	0
54	MG	DA	3262	1/1	0.83	0.17	84,84,84,84	0
54	MG	DA	3565	1/1	0.83	0.14	100,100,100,100	0
54	MG	DA	3263	1/1	0.83	0.29	78,78,78,78	0
54	MG	AA	1792	1/1	0.83	0.28	74,74,74,74	0
54	MG	BA	2954	1/1	0.83	0.23	54,54,54,54	0
54	MG	BA	3325	1/1	0.83	0.26	98,98,98,98	0
54	MG	DA	3723	1/1	0.83	0.23	106,106,106,106	0
54	MG	BA	3558	1/1	0.83	0.11	108,108,108,108	0
54	MG	DA	3735	1/1	0.84	0.07	82,82,82,82	0
54	MG	CA	1959	1/1	0.84	0.09	84,84,84,84	0
54	MG	BA	3276	1/1	0.84	0.09	79,79,79,79	0
54	MG	CA	1803	1/1	0.84	0.20	100,100,100,100	0
54	MG	BA	3002	1/1	0.84	0.16	62,62,62,62	0
54	MG	DA	2956	1/1	0.84	0.22	47,47,47,47	0
54	MG	BA	3158	1/1	0.84	0.07	39,39,39,39	0
54	MG	BA	3557	1/1	0.84	0.22	131,131,131,131	0
54	MG	BA	3227	1/1	0.84	0.26	82,82,82,82	0
54	MG	DA	3468	1/1	0.84	0.09	73,73,73,73	0
54	MG	DA	3204	1/1	0.84	0.36	62,62,62,62	0
54	MG	DA	3003	1/1	0.84	0.21	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3497	1/1	0.84	0.22	72,72,72,72	0
54	MG	AA	2035	1/1	0.84	0.22	86,86,86,86	0
54	MG	AA	1756	1/1	0.84	0.11	68,68,68,68	0
54	MG	BK	201	1/1	0.84	0.10	68,68,68,68	0
54	MG	DA	3768	1/1	0.84	0.28	92,92,92,92	0
54	MG	BA	3568	1/1	0.84	0.05	123,123,123,123	0
54	MG	BA	3169	1/1	0.84	0.28	60,60,60,60	0
54	MG	DA	3032	1/1	0.84	0.17	40,40,40,40	0
54	MG	DA	3774	1/1	0.84	0.23	76,76,76,76	0
54	MG	BA	3238	1/1	0.84	0.24	85,85,85,85	0
54	MG	BA	3016	1/1	0.84	0.24	63,63,63,63	0
54	MG	DA	3230	1/1	0.84	0.11	63,63,63,63	0
54	MG	CA	1666	1/1	0.84	0.10	67,67,67,67	0
54	MG	CA	1822	1/1	0.84	0.12	92,92,92,92	0
54	MG	DA	3237	1/1	0.84	0.23	68,68,68,68	0
54	MG	BA	3507	1/1	0.84	0.11	80,80,80,80	0
54	MG	CA	1672	1/1	0.84	0.14	70,70,70,70	0
54	MG	DA	3502	1/1	0.84	0.19	112,112,112,112	0
54	MG	DA	3504	1/1	0.84	0.12	81,81,81,81	0
54	MG	BA	3241	1/1	0.84	0.23	92,92,92,92	0
54	MG	BA	3068	1/1	0.84	0.18	72,72,72,72	0
54	MG	CL	201	1/1	0.84	0.09	81,81,81,81	0
54	MG	DA	3798	1/1	0.84	0.20	78,78,78,78	0
54	MG	DA	3514	1/1	0.84	0.11	66,66,66,66	0
54	MG	BA	2988	1/1	0.84	0.15	46,46,46,46	0
54	MG	BA	3577	1/1	0.84	0.09	80,80,80,80	0
54	MG	CA	1690	1/1	0.84	0.15	74,74,74,74	0
54	MG	DA	3804	1/1	0.84	0.14	94,94,94,94	0
54	MG	CA	1607	1/1	0.84	0.21	73,73,73,73	0
54	MG	DA	3402	1/1	0.84	0.17	70,70,70,70	0
54	MG	DA	3526	1/1	0.84	0.18	74,74,74,74	0
54	MG	DA	3677	1/1	0.84	0.10	85,85,85,85	0
54	MG	DA	3092	1/1	0.84	0.12	39,39,39,39	0
54	MG	BA	3248	1/1	0.84	0.07	81,81,81,81	0
54	MG	DA	3409	1/1	0.84	0.31	70,70,70,70	0
54	MG	BA	3032	1/1	0.84	0.33	66,66,66,66	0
54	MG	AA	1905	1/1	0.84	0.21	96,96,96,96	0
54	MG	DA	3689	1/1	0.84	0.08	63,63,63,63	0
54	MG	BA	3143	1/1	0.84	0.25	74,74,74,74	0
54	MG	BA	3263	1/1	0.84	0.17	65,65,65,65	0
54	MG	DA	3539	1/1	0.84	0.13	76,76,76,76	0
54	MG	BA	3533	1/1	0.84	0.14	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	2019	1/1	0.84	0.06	104,104,104,104	0
54	MG	DA	3555	1/1	0.84	0.25	81,81,81,81	0
54	MG	DA	3556	1/1	0.84	0.15	183,183,183,183	0
54	MG	DA	3125	1/1	0.84	0.13	48,48,48,48	0
54	MG	DA	3709	1/1	0.84	0.15	84,84,84,84	0
54	MG	DA	3429	1/1	0.84	0.17	83,83,83,83	0
54	MG	AA	2001	1/1	0.84	0.14	76,76,76,76	0
54	MG	BA	3477	1/1	0.84	0.14	60,60,60,60	0
54	MG	CA	1784	1/1	0.84	0.23	85,85,85,85	0
54	MG	BA	3150	1/1	0.84	0.27	72,72,72,72	0
54	MG	CA	1863	1/1	0.84	0.05	121,121,121,121	0
54	MG	DA	3717	1/1	0.84	0.14	88,88,88,88	0
54	MG	BA	3268	1/1	0.84	0.25	87,87,87,87	0
54	MG	BA	3050	1/1	0.84	0.21	67,67,67,67	0
54	MG	DR	202	1/1	0.84	0.23	102,102,102,102	0
54	MG	CA	1871	1/1	0.84	0.07	73,73,73,73	0
54	MG	BA	3383	1/1	0.84	0.15	63,63,63,63	0
54	MG	CA	1955	1/1	0.84	0.33	102,102,102,102	0
54	MG	BB	220	1/1	0.84	0.20	80,80,80,80	0
54	MG	AA	1827	1/1	0.84	0.18	88,88,88,88	0
54	MG	DA	3322	1/1	0.84	0.15	79,79,79,79	0
54	MG	CA	1723	1/1	0.84	0.10	111,111,111,111	0
54	MG	CD	115	1/1	0.84	0.17	106,106,106,106	0
54	MG	B1	201	1/1	0.85	0.11	80,80,80,80	0
54	MG	BA	3412	1/1	0.85	0.12	94,94,94,94	0
54	MG	BA	3173	1/1	0.85	0.11	68,68,68,68	0
54	MG	CA	1701	1/1	0.85	0.12	106,106,106,106	0
54	MG	DA	3733	1/1	0.85	0.16	75,75,75,75	0
54	MG	CA	1789	1/1	0.85	0.13	100,100,100,100	0
54	MG	AA	1951	1/1	0.85	0.14	79,79,79,79	0
54	MG	DA	3436	1/1	0.85	0.09	72,72,72,72	0
54	MG	AA	1749	1/1	0.85	0.18	72,72,72,72	0
54	MG	AA	1871	1/1	0.85	0.08	117,117,117,117	0
54	MG	DA	3081	1/1	0.85	0.24	84,84,84,84	0
54	MG	BA	3347	1/1	0.85	0.24	99,99,99,99	0
54	MG	CA	1708	1/1	0.85	0.13	77,77,77,77	0
54	MG	BA	3185	1/1	0.85	0.13	84,84,84,84	0
54	MG	DA	3443	1/1	0.85	0.34	86,86,86,86	0
54	MG	AA	1651	1/1	0.85	0.24	60,60,60,60	0
54	MG	BA	2961	1/1	0.85	0.30	46,46,46,46	0
54	MG	DA	3601	1/1	0.85	0.19	95,95,95,95	0
54	MG	CK	201	1/1	0.85	0.23	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3103	1/1	0.85	0.13	76,76,76,76	0
54	MG	CA	1901	1/1	0.85	0.10	103,103,103,103	0
54	MG	BA	3274	1/1	0.85	0.23	116,116,116,116	0
54	MG	BA	3121	1/1	0.85	0.16	76,76,76,76	0
54	MG	AA	2013	1/1	0.85	0.13	94,94,94,94	0
54	MG	DA	3110	1/1	0.85	0.15	54,54,54,54	0
54	MG	BA	3061	1/1	0.85	0.19	70,70,70,70	0
54	MG	DA	3120	1/1	0.85	0.35	74,74,74,74	0
54	MG	AA	1770	1/1	0.85	0.16	71,71,71,71	0
54	MG	CA	1724	1/1	0.85	0.14	66,66,66,66	0
54	MG	BA	3506	1/1	0.85	0.15	77,77,77,77	0
54	MG	DA	3319	1/1	0.85	0.15	71,71,71,71	0
54	MG	DA	3321	1/1	0.85	0.12	70,70,70,70	0
54	MG	BA	3216	1/1	0.85	0.26	86,86,86,86	0
54	MG	AA	1627	1/1	0.85	0.23	70,70,70,70	0
54	MG	AA	1825	1/1	0.85	0.10	95,95,95,95	0
54	MG	AA	1675	1/1	0.85	0.16	62,62,62,62	0
54	MG	BA	3070	1/1	0.85	0.16	53,53,53,53	0
54	MG	AA	1604	1/1	0.85	0.17	53,53,53,53	0
54	MG	BB	210	1/1	0.85	0.11	62,62,62,62	0
54	MG	BA	3229	1/1	0.85	0.15	77,77,77,77	0
54	MG	DA	3488	1/1	0.85	0.18	66,66,66,66	0
54	MG	BA	3379	1/1	0.85	0.18	98,98,98,98	0
54	MG	BA	3074	1/1	0.85	0.16	41,41,41,41	0
54	MG	CA	1832	1/1	0.85	0.09	79,79,79,79	0
54	MG	AA	1702	1/1	0.85	0.22	71,71,71,71	0
54	MG	AA	1649	1/1	0.85	0.15	84,84,84,84	0
54	MG	CC	113	1/1	0.85	0.10	67,67,67,67	0
54	MG	CD	104	1/1	0.85	0.07	83,83,83,83	0
54	MG	BA	3314	1/1	0.85	0.15	76,76,76,76	0
54	MG	BB	222	1/1	0.85	0.07	93,93,93,93	0
54	MG	BB	224	1/1	0.85	0.06	81,81,81,81	0
54	MG	BA	3536	1/1	0.85	0.23	89,89,89,89	0
54	MG	DA	3508	1/1	0.85	0.28	73,73,73,73	0
54	MG	AA	1783	1/1	0.85	0.35	90,90,90,90	0
54	MG	A1	101	1/1	0.85	0.10	102,102,102,102	0
54	MG	CD	116	1/1	0.85	0.10	90,90,90,90	0
54	MG	BA	3540	1/1	0.85	0.15	69,69,69,69	0
54	MG	CA	1948	1/1	0.85	0.10	89,89,89,89	0
54	MG	CA	1949	1/1	0.85	0.19	91,91,91,91	0
54	MG	AA	1693	1/1	0.85	0.06	95,95,95,95	0
54	MG	AA	1624	1/1	0.85	0.23	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3218	1/1	0.85	0.24	61,61,61,61	0
54	MG	DA	3698	1/1	0.85	0.23	89,89,89,89	0
54	MG	CA	1953	1/1	0.85	0.26	103,103,103,103	0
54	MG	BA	3244	1/1	0.85	0.07	67,67,67,67	0
54	MG	DA	3529	1/1	0.85	0.33	94,94,94,94	0
54	MG	DA	3389	1/1	0.85	0.27	70,70,70,70	0
54	MG	AA	1794	1/1	0.85	0.19	93,93,93,93	0
54	MG	CA	1861	1/1	0.85	0.07	109,109,109,109	0
54	MG	DA	3006	1/1	0.85	0.26	51,51,51,51	0
54	MG	BA	3020	1/1	0.85	0.12	72,72,72,72	0
54	MG	BA	3550	1/1	0.85	0.13	102,102,102,102	0
54	MG	BA	3553	1/1	0.85	0.23	96,96,96,96	0
54	MG	BA	3027	1/1	0.85	0.15	46,46,46,46	0
54	MG	CA	1870	1/1	0.85	0.18	69,69,69,69	0
54	MG	DA	3240	1/1	0.85	0.17	58,58,58,58	0
54	MG	AA	1891	1/1	0.85	0.17	93,93,93,93	0
54	MG	AA	1975	1/1	0.85	0.09	86,86,86,86	0
54	MG	DA	3562	1/1	0.85	0.33	75,75,75,75	0
54	MG	DU	203	1/1	0.85	0.15	94,94,94,94	0
54	MG	CA	1696	1/1	0.85	0.12	84,84,84,84	0
54	MG	DA	3249	1/1	0.85	0.26	65,65,65,65	0
54	MG	DA	3256	1/1	0.85	0.16	55,55,55,55	0
54	MG	DA	3302	1/1	0.86	0.23	76,76,76,76	0
54	MG	AA	1714	1/1	0.86	0.12	89,89,89,89	0
54	MG	DA	3305	1/1	0.86	0.13	63,63,63,63	0
54	MG	B3	102	1/1	0.86	0.07	58,58,58,58	0
54	MG	DA	3730	1/1	0.86	0.10	79,79,79,79	0
54	MG	DA	3576	1/1	0.86	0.07	109,109,109,109	0
54	MG	AA	1897	1/1	0.86	0.09	56,56,56,56	0
54	MG	AA	1652	1/1	0.86	0.17	82,82,82,82	0
54	MG	CD	109	1/1	0.86	0.07	89,89,89,89	0
54	MG	AA	1698	1/1	0.86	0.33	79,79,79,79	0
54	MG	BA	3189	1/1	0.86	0.26	76,76,76,76	0
54	MG	DA	3316	1/1	0.86	0.16	88,88,88,88	0
54	MG	DA	3589	1/1	0.86	0.30	136,136,136,136	0
54	MG	BA	3514	1/1	0.86	0.09	102,102,102,102	0
54	MG	AA	2032	1/1	0.86	0.10	84,84,84,84	0
54	MG	DA	3593	1/1	0.86	0.12	97,97,97,97	0
54	MG	AA	1996	1/1	0.86	0.15	106,106,106,106	0
54	MG	DA	3752	1/1	0.86	0.09	74,74,74,74	0
54	MG	DA	3455	1/1	0.86	0.07	80,80,80,80	0
54	MG	BA	3583	1/1	0.86	0.05	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1792	1/1	0.86	0.22	84,84,84,84	0
54	MG	DA	3462	1/1	0.86	0.15	80,80,80,80	0
54	MG	CD	123	1/1	0.86	0.06	81,81,81,81	0
54	MG	BA	3518	1/1	0.86	0.35	134,134,134,134	0
54	MG	DA	2951	1/1	0.86	0.22	54,54,54,54	0
54	MG	CA	1795	1/1	0.86	0.09	78,78,78,78	0
54	MG	DA	3332	1/1	0.86	0.14	67,67,67,67	0
54	MG	DA	3772	1/1	0.86	0.19	76,76,76,76	0
54	MG	BA	3200	1/1	0.86	0.19	90,90,90,90	0
54	MG	BA	3523	1/1	0.86	0.11	104,104,104,104	0
54	MG	DA	3471	1/1	0.86	0.26	94,94,94,94	0
54	MG	AA	1900	1/1	0.86	0.07	102,102,102,102	0
54	MG	CA	1801	1/1	0.86	0.13	88,88,88,88	0
54	MG	AA	1639	1/1	0.86	0.34	73,73,73,73	0
54	MG	DA	3007	1/1	0.86	0.18	48,48,48,48	0
54	MG	BA	2921	1/1	0.86	0.19	41,41,41,41	0
54	MG	BB	211	1/1	0.86	0.11	80,80,80,80	0
54	MG	BA	3207	1/1	0.86	0.11	67,67,67,67	0
54	MG	BA	3272	1/1	0.86	0.17	66,66,66,66	0
54	MG	BA	3405	1/1	0.86	0.17	82,82,82,82	0
54	MG	DA	3489	1/1	0.86	0.36	79,79,79,79	0
54	MG	BA	3214	1/1	0.86	0.12	67,67,67,67	0
54	MG	BA	2923	1/1	0.86	0.15	44,44,44,44	0
54	MG	DA	3650	1/1	0.86	0.13	76,76,76,76	0
54	MG	BA	3144	1/1	0.86	0.11	68,68,68,68	0
54	MG	BB	221	1/1	0.86	0.07	106,106,106,106	0
54	MG	AA	1773	1/1	0.86	0.13	81,81,81,81	0
54	MG	AA	1817	1/1	0.86	0.09	89,89,89,89	0
54	MG	BA	3280	1/1	0.86	0.08	61,61,61,61	0
54	MG	BA	3044	1/1	0.86	0.07	114,114,114,114	0
54	MG	DA	3063	1/1	0.86	0.14	34,34,34,34	0
54	MG	DB	203	1/1	0.86	0.32	67,67,67,67	0
54	MG	BA	3359	1/1	0.86	0.11	73,73,73,73	0
54	MG	DA	3505	1/1	0.86	0.22	88,88,88,88	0
54	MG	AA	1942	1/1	0.86	0.14	128,128,128,128	0
54	MG	BA	3228	1/1	0.86	0.05	83,83,83,83	0
54	MG	AA	1636	1/1	0.86	0.23	71,71,71,71	0
54	MG	DA	3386	1/1	0.86	0.28	75,75,75,75	0
54	MG	BA	2972	1/1	0.86	0.26	65,65,65,65	0
54	MG	BA	3494	1/1	0.86	0.15	65,65,65,65	0
54	MG	DA	3394	1/1	0.86	0.13	73,73,73,73	0
54	MG	AA	1983	1/1	0.86	0.11	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1834	1/1	0.86	0.16	103,103,103,103	0
54	MG	DA	3519	1/1	0.86	0.18	87,87,87,87	0
54	MG	BA	3292	1/1	0.86	0.12	54,54,54,54	0
54	MG	AA	1764	1/1	0.86	0.08	96,96,96,96	0
54	MG	DA	3097	1/1	0.86	0.16	63,63,63,63	0
54	MG	DA	3098	1/1	0.86	0.22	65,65,65,65	0
54	MG	AA	2026	1/1	0.86	0.29	90,90,90,90	0
54	MG	BA	3501	1/1	0.86	0.06	80,80,80,80	0
54	MG	DA	3703	1/1	0.86	0.12	99,99,99,99	0
54	MG	AL	201	1/1	0.86	0.13	79,79,79,79	0
54	MG	CA	1683	1/1	0.86	0.15	70,70,70,70	0
54	MG	DA	3276	1/1	0.86	0.20	70,70,70,70	0
54	MG	CA	1684	1/1	0.86	0.14	60,60,60,60	0
54	MG	DA	3279	1/1	0.86	0.28	98,98,98,98	0
54	MG	DA	3414	1/1	0.86	0.19	70,70,70,70	0
54	MG	D0	203	1/1	0.86	0.11	63,63,63,63	0
54	MG	DA	3544	1/1	0.86	0.17	87,87,87,87	0
54	MG	BR	202	1/1	0.86	0.12	105,105,105,105	0
54	MG	DA	3417	1/1	0.86	0.08	120,120,120,120	0
54	MG	D1	202	1/1	0.86	0.19	75,75,75,75	0
54	MG	DA	3114	1/1	0.86	0.16	72,72,72,72	0
54	MG	CA	1941	1/1	0.86	0.07	88,88,88,88	0
54	MG	DS	201	1/1	0.86	0.18	104,104,104,104	0
54	MG	DA	3285	1/1	0.86	0.22	56,56,56,56	0
54	MG	AA	1822	1/1	0.86	0.13	107,107,107,107	0
54	MG	DA	3122	1/1	0.86	0.24	60,60,60,60	0
54	MG	CA	1769	1/1	0.86	0.12	81,81,81,81	0
54	MG	BT	101	1/1	0.86	0.16	65,65,65,65	0
54	MG	DZ	102	1/1	0.86	0.16	79,79,79,79	0
54	MG	BA	3066	1/1	0.86	0.29	99,99,99,99	0
54	MG	DA	2987	1/1	0.87	0.23	36,36,36,36	0
54	MG	DA	3739	1/1	0.87	0.10	127,127,127,127	0
54	MG	DA	2989	1/1	0.87	0.20	42,42,42,42	0
54	MG	BA	3489	1/1	0.87	0.10	93,93,93,93	0
54	MG	DA	3596	1/1	0.87	0.21	110,110,110,110	0
54	MG	BA	3235	1/1	0.87	0.09	59,59,59,59	0
54	MG	CA	1613	1/1	0.87	0.24	60,60,60,60	0
54	MG	AP	201	1/1	0.87	0.15	82,82,82,82	0
54	MG	DA	3603	1/1	0.87	0.21	86,86,86,86	0
54	MG	DA	3605	1/1	0.87	0.15	80,80,80,80	0
54	MG	BA	2935	1/1	0.87	0.21	46,46,46,46	0
54	MG	CA	1829	1/1	0.87	0.09	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3387	1/1	0.87	0.14	67,67,67,67	0
54	MG	AA	1823	1/1	0.87	0.29	104,104,104,104	0
54	MG	DA	3214	1/1	0.87	0.23	72,72,72,72	0
54	MG	AA	1846	1/1	0.87	0.25	97,97,97,97	0
54	MG	CA	1833	1/1	0.87	0.14	70,70,70,70	0
54	MG	AA	1879	1/1	0.87	0.09	85,85,85,85	0
54	MG	AA	1722	1/1	0.87	0.24	68,68,68,68	0
54	MG	DA	3220	1/1	0.87	0.15	59,59,59,59	0
54	MG	BA	3287	1/1	0.87	0.25	79,79,79,79	0
54	MG	DA	3041	1/1	0.87	0.19	49,49,49,49	0
54	MG	CA	1842	1/1	0.87	0.08	112,112,112,112	0
54	MG	DA	3778	1/1	0.87	0.10	97,97,97,97	0
54	MG	CA	1844	1/1	0.87	0.12	76,76,76,76	0
54	MG	CA	1774	1/1	0.87	0.10	66,66,66,66	0
54	MG	DA	3492	1/1	0.87	0.19	95,95,95,95	0
54	MG	DA	3373	1/1	0.87	0.13	75,75,75,75	0
54	MG	DA	3056	1/1	0.87	0.26	71,71,71,71	0
54	MG	DA	3057	1/1	0.87	0.18	68,68,68,68	0
54	MG	BA	3451	1/1	0.87	0.22	64,64,64,64	0
54	MG	DA	3378	1/1	0.87	0.08	76,76,76,76	0
54	MG	BA	3453	1/1	0.87	0.29	73,73,73,73	0
54	MG	AA	1813	1/1	0.87	0.24	93,93,93,93	0
54	MG	DA	3654	1/1	0.87	0.06	105,105,105,105	0
54	MG	DA	3382	1/1	0.87	0.22	91,91,91,91	0
54	MG	DA	3795	1/1	0.87	0.09	112,112,112,112	0
54	MG	BA	2978	1/1	0.87	0.24	47,47,47,47	0
54	MG	AA	1753	1/1	0.87	0.17	71,71,71,71	0
54	MG	BA	2982	1/1	0.87	0.28	61,61,61,61	0
54	MG	BA	3123	1/1	0.87	0.30	71,71,71,71	0
54	MG	BA	3567	1/1	0.87	0.08	69,69,69,69	0
54	MG	CA	1934	1/1	0.87	0.19	94,94,94,94	0
54	MG	CA	1935	1/1	0.87	0.06	136,136,136,136	0
54	MG	CA	1936	1/1	0.87	0.09	90,90,90,90	0
54	MG	BA	3510	1/1	0.87	0.13	91,91,91,91	0
54	MG	BA	3124	1/1	0.87	0.23	75,75,75,75	0
54	MG	BA	3160	1/1	0.87	0.20	65,65,65,65	0
54	MG	DA	3270	1/1	0.87	0.16	70,70,70,70	0
54	MG	BA	3218	1/1	0.87	0.06	70,70,70,70	0
54	MG	AA	1715	1/1	0.87	0.13	76,76,76,76	0
54	MG	BA	3416	1/1	0.87	0.13	74,74,74,74	0
54	MG	CC	111	1/1	0.87	0.08	99,99,99,99	0
54	MG	BA	3127	1/1	0.87	0.33	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1869	1/1	0.87	0.06	98,98,98,98	0
54	MG	CD	103	1/1	0.87	0.08	113,113,113,113	0
54	MG	DB	216	1/1	0.87	0.11	94,94,94,94	0
54	MG	BA	3318	1/1	0.87	0.14	76,76,76,76	0
54	MG	BA	3521	1/1	0.87	0.31	109,109,109,109	0
54	MG	DA	3696	1/1	0.87	0.08	85,85,85,85	0
54	MG	DA	3292	1/1	0.87	0.12	83,83,83,83	0
54	MG	DA	3540	1/1	0.87	0.25	54,54,54,54	0
54	MG	CA	1951	1/1	0.87	0.08	74,74,74,74	0
54	MG	AA	1646	1/1	0.87	0.24	66,66,66,66	0
54	MG	CA	1665	1/1	0.87	0.12	84,84,84,84	0
54	MG	DA	3297	1/1	0.87	0.13	54,54,54,54	0
54	MG	CA	1954	1/1	0.87	0.08	95,95,95,95	0
54	MG	BA	3524	1/1	0.87	0.08	52,52,52,52	0
54	MG	AA	1818	1/1	0.87	0.13	64,64,64,64	0
54	MG	DA	3560	1/1	0.87	0.15	79,79,79,79	0
54	MG	CA	1879	1/1	0.87	0.23	90,90,90,90	0
54	MG	CA	1669	1/1	0.87	0.27	71,71,71,71	0
54	MG	CA	1744	1/1	0.87	0.08	89,89,89,89	0
54	MG	DA	3135	1/1	0.87	0.23	48,48,48,48	0
54	MG	BA	3176	1/1	0.87	0.18	65,65,65,65	0
54	MG	DA	3137	1/1	0.87	0.11	51,51,51,51	0
54	MG	BA	3428	1/1	0.87	0.06	93,93,93,93	0
54	MG	BB	202	1/1	0.87	0.14	59,59,59,59	0
54	MG	DA	3446	1/1	0.87	0.19	86,86,86,86	0
54	MG	DA	2915	1/1	0.87	0.22	29,29,29,29	0
54	MG	DA	2947	1/1	0.87	0.23	26,26,26,26	0
54	MG	DA	3164	1/1	0.87	0.29	72,72,72,72	0
54	MG	CA	1678	1/1	0.87	0.13	66,66,66,66	0
54	MG	DA	2953	1/1	0.87	0.32	63,63,63,63	0
54	MG	AA	1628	1/1	0.87	0.38	69,69,69,69	0
54	MG	DU	206	1/1	0.87	0.12	83,83,83,83	0
54	MG	AA	1774	1/1	0.87	0.20	75,75,75,75	0
54	MG	AA	1810	1/1	0.87	0.11	75,75,75,75	0
55	ZN	AA	2040	1/1	0.87	0.10	300,300,300,300	0
54	MG	DA	3461	1/1	0.87	0.12	66,66,66,66	0
54	MG	AA	1677	1/1	0.88	0.24	63,63,63,63	0
54	MG	AA	1620	1/1	0.88	0.15	67,67,67,67	0
54	MG	DA	3577	1/1	0.88	0.07	80,80,80,80	0
54	MG	CA	1766	1/1	0.88	0.17	51,51,51,51	0
54	MG	BA	3159	1/1	0.88	0.18	61,61,61,61	0
54	MG	CA	1857	1/1	0.88	0.10	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1688	1/1	0.88	0.22	76,76,76,76	0
54	MG	DA	3307	1/1	0.88	0.25	74,74,74,74	0
54	MG	BU	202	1/1	0.88	0.06	73,73,73,73	0
54	MG	BA	3114	1/1	0.88	0.16	67,67,67,67	0
54	MG	B3	101	1/1	0.88	0.08	72,72,72,72	0
54	MG	DA	2909	1/1	0.88	0.24	25,25,25,25	0
54	MG	BA	2979	1/1	0.88	0.17	60,60,60,60	0
54	MG	DA	3748	1/1	0.88	0.17	71,71,71,71	0
54	MG	DA	3453	1/1	0.88	0.28	81,81,81,81	0
54	MG	DA	2919	1/1	0.88	0.18	46,46,46,46	0
54	MG	DA	3163	1/1	0.88	0.26	60,60,60,60	0
54	MG	DA	2930	1/1	0.88	0.19	31,31,31,31	0
54	MG	DA	3758	1/1	0.88	0.13	65,65,65,65	0
54	MG	DA	3167	1/1	0.88	0.22	68,68,68,68	0
54	MG	BA	3054	1/1	0.88	0.22	66,66,66,66	0
54	MG	B6	101	1/1	0.88	0.08	84,84,84,84	0
54	MG	DA	3176	1/1	0.88	0.23	57,57,57,57	0
54	MG	DA	2952	1/1	0.88	0.25	39,39,39,39	0
54	MG	DA	3184	1/1	0.88	0.25	66,66,66,66	0
54	MG	AA	1793	1/1	0.88	0.09	73,73,73,73	0
54	MG	DA	3186	1/1	0.88	0.09	23,23,23,23	0
54	MG	BA	2903	1/1	0.88	0.08	82,82,82,82	0
54	MG	BA	3579	1/1	0.88	0.12	83,83,83,83	0
54	MG	DA	3337	1/1	0.88	0.23	59,59,59,59	0
54	MG	DA	3775	1/1	0.88	0.16	90,90,90,90	0
54	MG	DA	3339	1/1	0.88	0.20	67,67,67,67	0
54	MG	DA	3189	1/1	0.88	0.20	68,68,68,68	0
54	MG	DA	3347	1/1	0.88	0.32	98,98,98,98	0
54	MG	AA	1657	1/1	0.88	0.26	83,83,83,83	0
54	MG	BA	3122	1/1	0.88	0.28	63,63,63,63	0
54	MG	AA	1795	1/1	0.88	0.19	70,70,70,70	0
54	MG	AA	1755	1/1	0.88	0.23	62,62,62,62	0
54	MG	AA	1967	1/1	0.88	0.07	84,84,84,84	0
54	MG	DA	3635	1/1	0.88	0.10	101,101,101,101	0
54	MG	DA	3640	1/1	0.88	0.12	82,82,82,82	0
54	MG	CA	1628	1/1	0.88	0.27	87,87,87,87	0
54	MG	BA	3463	1/1	0.88	0.15	69,69,69,69	0
54	MG	BA	3391	1/1	0.88	0.19	86,86,86,86	0
54	MG	BA	3251	1/1	0.88	0.12	78,78,78,78	0
54	MG	CA	1887	1/1	0.88	0.09	82,82,82,82	0
54	MG	BA	3253	1/1	0.88	0.21	70,70,70,70	0
54	MG	CA	1719	1/1	0.88	0.15	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1912	1/1	0.88	0.14	79,79,79,79	0
54	MG	BA	3532	1/1	0.88	0.18	83,83,83,83	0
54	MG	CA	1896	1/1	0.88	0.09	67,67,67,67	0
54	MG	AA	1616	1/1	0.88	0.12	76,76,76,76	0
54	MG	DA	3503	1/1	0.88	0.10	74,74,74,74	0
54	MG	DA	3664	1/1	0.88	0.08	104,104,104,104	0
54	MG	DA	3224	1/1	0.88	0.13	55,55,55,55	0
54	MG	CA	1807	1/1	0.88	0.09	71,71,71,71	0
54	MG	BA	3191	1/1	0.88	0.29	79,79,79,79	0
54	MG	DB	206	1/1	0.88	0.12	57,57,57,57	0
54	MG	CA	1726	1/1	0.88	0.11	54,54,54,54	0
54	MG	BA	3257	1/1	0.88	0.09	63,63,63,63	0
54	MG	DA	3054	1/1	0.88	0.13	54,54,54,54	0
54	MG	BA	3332	1/1	0.88	0.18	60,60,60,60	0
54	MG	CA	1729	1/1	0.88	0.12	61,61,61,61	0
54	MG	CA	1907	1/1	0.88	0.11	83,83,83,83	0
54	MG	BA	3258	1/1	0.88	0.13	100,100,100,100	0
54	MG	AA	1884	1/1	0.88	0.08	86,86,86,86	0
54	MG	CA	1734	1/1	0.88	0.09	73,73,73,73	0
54	MG	DA	3684	1/1	0.88	0.13	83,83,83,83	0
54	MG	BA	3131	1/1	0.88	0.24	76,76,76,76	0
54	MG	BA	2916	1/1	0.88	0.20	42,42,42,42	0
54	MG	DA	3251	1/1	0.88	0.26	83,83,83,83	0
54	MG	BA	3014	1/1	0.88	0.29	49,49,49,49	0
54	MG	BB	223	1/1	0.88	0.09	122,122,122,122	0
54	MG	DA	3531	1/1	0.88	0.22	90,90,90,90	0
54	MG	CA	1825	1/1	0.88	0.06	106,106,106,106	0
54	MG	DA	3697	1/1	0.88	0.17	89,89,89,89	0
54	MG	BA	3484	1/1	0.88	0.17	106,106,106,106	0
54	MG	BA	2918	1/1	0.88	0.24	46,46,46,46	0
54	MG	CA	1921	1/1	0.88	0.22	70,70,70,70	0
54	MG	DA	3096	1/1	0.88	0.10	57,57,57,57	0
54	MG	AA	1731	1/1	0.88	0.28	63,63,63,63	0
54	MG	BA	3548	1/1	0.88	0.13	81,81,81,81	0
54	MG	AA	2042	1/1	0.88	0.08	66,66,66,66	0
54	MG	BA	3213	1/1	0.88	0.14	61,61,61,61	0
54	MG	AA	1916	1/1	0.88	0.11	93,93,93,93	0
54	MG	BA	3026	1/1	0.88	0.20	60,60,60,60	0
54	MG	BA	3556	1/1	0.88	0.11	82,82,82,82	0
54	MG	BA	2937	1/1	0.88	0.20	53,53,53,53	0
54	MG	DA	3424	1/1	0.88	0.15	77,77,77,77	0
54	MG	DA	3425	1/1	0.88	0.16	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1769	1/1	0.88	0.21	80,80,80,80	0
54	MG	BA	3220	1/1	0.88	0.17	59,59,59,59	0
54	MG	AA	1641	1/1	0.88	0.14	76,76,76,76	0
54	MG	DA	3566	1/1	0.88	0.15	78,78,78,78	0
54	MG	AA	1788	1/1	0.88	0.08	91,91,91,91	0
54	MG	CA	1760	1/1	0.88	0.09	118,118,118,118	0
54	MG	BA	3100	1/1	0.88	0.09	70,70,70,70	0
54	MG	D6	101	1/1	0.88	0.37	98,98,98,98	0
54	MG	D6	102	1/1	0.88	0.21	94,94,94,94	0
54	MG	AA	1874	1/1	0.88	0.13	63,63,63,63	0
54	MG	DA	3298	1/1	0.88	0.14	70,70,70,70	0
54	MG	BB	214	1/1	0.89	0.14	91,91,91,91	0
54	MG	CA	1793	1/1	0.89	0.17	66,66,66,66	0
54	MG	DA	3734	1/1	0.89	0.14	69,69,69,69	0
54	MG	DA	3582	1/1	0.89	0.09	116,116,116,116	0
54	MG	DA	3736	1/1	0.89	0.10	76,76,76,76	0
54	MG	BA	3222	1/1	0.89	0.28	88,88,88,88	0
54	MG	BA	3156	1/1	0.89	0.18	68,68,68,68	0
54	MG	DA	2936	1/1	0.89	0.24	48,48,48,48	0
54	MG	DA	3149	1/1	0.89	0.21	56,56,56,56	0
54	MG	DA	3590	1/1	0.89	0.09	93,93,93,93	0
54	MG	DA	2941	1/1	0.89	0.16	39,39,39,39	0
54	MG	AA	1892	1/1	0.89	0.11	99,99,99,99	0
54	MG	DA	3161	1/1	0.89	0.23	60,60,60,60	0
54	MG	DA	3452	1/1	0.89	0.07	104,104,104,104	0
54	MG	AA	1673	1/1	0.89	0.07	91,91,91,91	0
54	MG	DA	3454	1/1	0.89	0.22	69,69,69,69	0
54	MG	CA	1642	1/1	0.89	0.16	48,48,48,48	0
54	MG	AA	1717	1/1	0.89	0.16	77,77,77,77	0
54	MG	DA	3755	1/1	0.89	0.07	67,67,67,67	0
54	MG	DA	3756	1/1	0.89	0.13	57,57,57,57	0
54	MG	CA	1645	1/1	0.89	0.28	79,79,79,79	0
54	MG	AA	1684	1/1	0.89	0.16	74,74,74,74	0
54	MG	DA	3606	1/1	0.89	0.16	72,72,72,72	0
54	MG	AA	1973	1/1	0.89	0.13	84,84,84,84	0
54	MG	BA	3120	1/1	0.89	0.20	75,75,75,75	0
54	MG	DA	3182	1/1	0.89	0.19	71,71,71,71	0
54	MG	BA	3170	1/1	0.89	0.21	72,72,72,72	0
54	MG	CA	1732	1/1	0.89	0.27	82,82,82,82	0
54	MG	DA	3614	1/1	0.89	0.14	67,67,67,67	0
54	MG	DA	3616	1/1	0.89	0.10	59,59,59,59	0
54	MG	DA	2999	1/1	0.89	0.19	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1908	1/1	0.89	0.24	95,95,95,95	0
54	MG	DA	3004	1/1	0.89	0.24	52,52,52,52	0
54	MG	AA	1738	1/1	0.89	0.26	84,84,84,84	0
54	MG	BA	3291	1/1	0.89	0.10	86,86,86,86	0
54	MG	DA	3345	1/1	0.89	0.18	80,80,80,80	0
54	MG	BA	3440	1/1	0.89	0.22	100,100,100,100	0
54	MG	CA	1738	1/1	0.89	0.09	88,88,88,88	0
54	MG	AA	1856	1/1	0.89	0.20	71,71,71,71	0
54	MG	BA	3179	1/1	0.89	0.12	51,51,51,51	0
54	MG	BA	2997	1/1	0.89	0.25	60,60,60,60	0
54	MG	CH	201	1/1	0.89	0.12	82,82,82,82	0
54	MG	DA	3207	1/1	0.89	0.27	66,66,66,66	0
54	MG	DA	3028	1/1	0.89	0.19	59,59,59,59	0
54	MG	AC	105	1/1	0.89	0.13	88,88,88,88	0
54	MG	BA	3563	1/1	0.89	0.20	74,74,74,74	0
54	MG	DA	3037	1/1	0.89	0.24	58,58,58,58	0
54	MG	CA	1745	1/1	0.89	0.09	74,74,74,74	0
54	MG	BA	3565	1/1	0.89	0.18	99,99,99,99	0
54	MG	BA	2929	1/1	0.89	0.26	32,32,32,32	0
54	MG	CP	202	1/1	0.89	0.07	122,122,122,122	0
54	MG	AA	1625	1/1	0.89	0.19	62,62,62,62	0
54	MG	DA	3372	1/1	0.89	0.14	57,57,57,57	0
54	MG	BA	3310	1/1	0.89	0.09	80,80,80,80	0
54	MG	AA	1858	1/1	0.89	0.06	83,83,83,83	0
54	MG	AA	1605	1/1	0.89	0.24	61,61,61,61	0
54	MG	BA	2946	1/1	0.89	0.21	50,50,50,50	0
54	MG	BA	3019	1/1	0.89	0.09	67,67,67,67	0
54	MG	DA	3064	1/1	0.89	0.18	72,72,72,72	0
54	MG	DA	3067	1/1	0.89	0.24	47,47,47,47	0
54	MG	BA	2948	1/1	0.89	0.16	29,29,29,29	0
54	MG	CA	1839	1/1	0.89	0.10	65,65,65,65	0
54	MG	DA	3075	1/1	0.89	0.12	43,43,43,43	0
54	MG	CA	1756	1/1	0.89	0.05	57,57,57,57	0
54	MG	AA	1705	1/1	0.89	0.11	77,77,77,77	0
54	MG	DA	3392	1/1	0.89	0.07	66,66,66,66	0
54	MG	AA	1776	1/1	0.89	0.23	110,110,110,110	0
54	MG	BA	3261	1/1	0.89	0.15	99,99,99,99	0
54	MG	BA	3031	1/1	0.89	0.08	82,82,82,82	0
54	MG	DA	3090	1/1	0.89	0.10	43,43,43,43	0
54	MG	DB	219	1/1	0.89	0.12	77,77,77,77	0
54	MG	BW	101	1/1	0.89	0.12	65,65,65,65	0
54	MG	CC	108	1/1	0.89	0.09	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1933	1/1	0.89	0.05	69,69,69,69	0
54	MG	B4	101	1/1	0.89	0.17	85,85,85,85	0
54	MG	DA	3267	1/1	0.89	0.31	76,76,76,76	0
54	MG	DA	3406	1/1	0.89	0.11	82,82,82,82	0
54	MG	AA	1635	1/1	0.89	0.16	54,54,54,54	0
54	MG	BA	3034	1/1	0.89	0.17	61,61,61,61	0
54	MG	BA	2971	1/1	0.89	0.19	57,57,57,57	0
54	MG	DE	302	1/1	0.89	0.12	51,51,51,51	0
54	MG	BA	3095	1/1	0.89	0.10	52,52,52,52	0
54	MG	DA	3105	1/1	0.89	0.28	56,56,56,56	0
54	MG	BA	3529	1/1	0.89	0.14	88,88,88,88	0
54	MG	BA	3530	1/1	0.89	0.13	110,110,110,110	0
54	MG	DA	3554	1/1	0.89	0.18	72,72,72,72	0
54	MG	D0	202	1/1	0.89	0.19	51,51,51,51	0
54	MG	DA	3416	1/1	0.89	0.23	94,94,94,94	0
54	MG	AA	1987	1/1	0.89	0.11	86,86,86,86	0
54	MG	BA	3043	1/1	0.89	0.10	51,51,51,51	0
54	MG	DA	3421	1/1	0.89	0.25	85,85,85,85	0
54	MG	CA	1621	1/1	0.89	0.19	49,49,49,49	0
54	MG	DA	3714	1/1	0.89	0.17	92,92,92,92	0
54	MG	BA	3475	1/1	0.89	0.14	73,73,73,73	0
54	MG	DA	3118	1/1	0.89	0.21	40,40,40,40	0
54	MG	CA	1624	1/1	0.89	0.17	40,40,40,40	0
54	MG	CA	1785	1/1	0.89	0.14	69,69,69,69	0
54	MG	CA	1626	1/1	0.89	0.21	68,68,68,68	0
54	MG	AA	1989	1/1	0.89	0.10	91,91,91,91	0
54	MG	BA	3344	1/1	0.89	0.06	69,69,69,69	0
54	MG	AA	1948	1/1	0.89	0.09	82,82,82,82	0
54	MG	DZ	101	1/1	0.89	0.16	79,79,79,79	0
54	MG	BA	3275	1/1	0.89	0.19	77,77,77,77	0
54	MG	CA	1791	1/1	0.89	0.08	85,85,85,85	0
54	MG	CD	125	1/1	0.89	0.09	83,83,83,83	0
54	MG	CD	126	1/1	0.89	0.12	82,82,82,82	0
54	MG	DA	3304	1/1	0.89	0.07	41,41,41,41	0
54	MG	AA	1921	1/1	0.90	0.11	76,76,76,76	0
54	MG	BA	3052	1/1	0.90	0.11	63,63,63,63	0
54	MG	BA	3299	1/1	0.90	0.10	94,94,94,94	0
54	MG	DA	3019	1/1	0.90	0.23	68,68,68,68	0
54	MG	BA	3300	1/1	0.90	0.09	87,87,87,87	0
54	MG	BA	3101	1/1	0.90	0.24	56,56,56,56	0
54	MG	BA	3204	1/1	0.90	0.23	76,76,76,76	0
54	MG	BA	3306	1/1	0.90	0.30	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1675	1/1	0.90	0.24	59,59,59,59	0
54	MG	DA	3194	1/1	0.90	0.19	65,65,65,65	0
54	MG	DA	3750	1/1	0.90	0.17	57,57,57,57	0
54	MG	BA	3307	1/1	0.90	0.29	79,79,79,79	0
54	MG	CA	1835	1/1	0.90	0.19	74,74,74,74	0
54	MG	BA	3006	1/1	0.90	0.13	54,54,54,54	0
54	MG	DA	3341	1/1	0.90	0.15	64,64,64,64	0
54	MG	DA	3342	1/1	0.90	0.24	77,77,77,77	0
54	MG	AA	1736	1/1	0.90	0.17	53,53,53,53	0
54	MG	DA	3203	1/1	0.90	0.12	74,74,74,74	0
54	MG	BA	3012	1/1	0.90	0.20	56,56,56,56	0
54	MG	CA	1926	1/1	0.90	0.22	81,81,81,81	0
54	MG	BA	3112	1/1	0.90	0.12	64,64,64,64	0
54	MG	BA	2964	1/1	0.90	0.21	45,45,45,45	0
54	MG	DA	3353	1/1	0.90	0.07	70,70,70,70	0
54	MG	BA	3519	1/1	0.90	0.09	90,90,90,90	0
54	MG	DA	3213	1/1	0.90	0.10	40,40,40,40	0
54	MG	DA	3061	1/1	0.90	0.25	52,52,52,52	0
54	MG	CA	1605	1/1	0.90	0.11	39,39,39,39	0
54	MG	CA	1691	1/1	0.90	0.17	56,56,56,56	0
54	MG	BA	3457	1/1	0.90	0.21	80,80,80,80	0
54	MG	AA	1716	1/1	0.90	0.12	66,66,66,66	0
54	MG	AA	1763	1/1	0.90	0.30	74,74,74,74	0
54	MG	BA	3065	1/1	0.90	0.19	51,51,51,51	0
54	MG	DA	3636	1/1	0.90	0.15	66,66,66,66	0
54	MG	AA	1619	1/1	0.90	0.32	55,55,55,55	0
54	MG	AA	1669	1/1	0.90	0.23	54,54,54,54	0
54	MG	CA	1779	1/1	0.90	0.11	104,104,104,104	0
54	MG	CA	1700	1/1	0.90	0.19	107,107,107,107	0
54	MG	CA	1945	1/1	0.90	0.10	77,77,77,77	0
54	MG	DA	3231	1/1	0.90	0.34	78,78,78,78	0
54	MG	CA	1619	1/1	0.90	0.17	73,73,73,73	0
54	MG	DA	3651	1/1	0.90	0.20	98,98,98,98	0
54	MG	CA	1620	1/1	0.90	0.17	69,69,69,69	0
54	MG	DA	3653	1/1	0.90	0.14	88,88,88,88	0
54	MG	BA	3396	1/1	0.90	0.19	63,63,63,63	0
54	MG	AA	1782	1/1	0.90	0.18	106,106,106,106	0
54	MG	BA	3399	1/1	0.90	0.06	82,82,82,82	0
54	MG	DA	3241	1/1	0.90	0.13	56,56,56,56	0
54	MG	DA	3384	1/1	0.90	0.13	62,62,62,62	0
54	MG	DA	3513	1/1	0.90	0.15	82,82,82,82	0
54	MG	CA	1625	1/1	0.90	0.25	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1868	1/1	0.90	0.20	72,72,72,72	0
54	MG	DA	3101	1/1	0.90	0.20	52,52,52,52	0
54	MG	BA	3166	1/1	0.90	0.11	57,57,57,57	0
54	MG	CA	1627	1/1	0.90	0.20	50,50,50,50	0
54	MG	AA	1670	1/1	0.90	0.11	75,75,75,75	0
54	MG	AA	1944	1/1	0.90	0.10	111,111,111,111	0
54	MG	DB	207	1/1	0.90	0.11	99,99,99,99	0
54	MG	AA	1615	1/1	0.90	0.13	38,38,38,38	0
54	MG	DA	3676	1/1	0.90	0.22	131,131,131,131	0
54	MG	BA	3277	1/1	0.90	0.11	73,73,73,73	0
54	MG	DA	3264	1/1	0.90	0.24	73,73,73,73	0
54	MG	DA	2902	1/1	0.90	0.17	44,44,44,44	0
54	MG	DA	3111	1/1	0.90	0.13	48,48,48,48	0
54	MG	CA	1877	1/1	0.90	0.10	62,62,62,62	0
54	MG	AA	1743	1/1	0.90	0.13	75,75,75,75	0
54	MG	BA	3230	1/1	0.90	0.06	67,67,67,67	0
54	MG	AA	1601	1/1	0.90	0.19	42,42,42,42	0
54	MG	DA	3537	1/1	0.90	0.18	73,73,73,73	0
54	MG	DA	3274	1/1	0.90	0.19	82,82,82,82	0
54	MG	AA	1606	1/1	0.90	0.14	55,55,55,55	0
54	MG	BA	2994	1/1	0.90	0.33	60,60,60,60	0
54	MG	DB	223	1/1	0.90	0.06	104,104,104,104	0
54	MG	BA	3485	1/1	0.90	0.25	69,69,69,69	0
54	MG	DA	2949	1/1	0.90	0.17	35,35,35,35	0
54	MG	BA	3349	1/1	0.90	0.12	82,82,82,82	0
54	MG	DA	3550	1/1	0.90	0.26	76,76,76,76	0
54	MG	DA	3553	1/1	0.90	0.07	74,74,74,74	0
54	MG	BA	3547	1/1	0.90	0.09	74,74,74,74	0
54	MG	BA	3039	1/1	0.90	0.19	58,58,58,58	0
54	MG	BA	3549	1/1	0.90	0.27	110,110,110,110	0
54	MG	DA	3287	1/1	0.90	0.14	63,63,63,63	0
54	MG	DA	3558	1/1	0.90	0.19	65,65,65,65	0
54	MG	DA	3290	1/1	0.90	0.37	81,81,81,81	0
54	MG	DA	2962	1/1	0.90	0.15	33,33,33,33	0
54	MG	BA	3183	1/1	0.90	0.09	80,80,80,80	0
54	MG	DA	2966	1/1	0.90	0.18	37,37,37,37	0
54	MG	DA	2974	1/1	0.90	0.29	51,51,51,51	0
54	MG	DR	201	1/1	0.90	0.09	77,77,77,77	0
54	MG	BA	3551	1/1	0.90	0.06	98,98,98,98	0
54	MG	BE	304	1/1	0.90	0.33	86,86,86,86	0
54	MG	DA	3146	1/1	0.90	0.12	54,54,54,54	0
54	MG	DA	3148	1/1	0.90	0.31	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1623	1/1	0.90	0.23	53,53,53,53	0
54	MG	DA	3151	1/1	0.90	0.25	89,89,89,89	0
54	MG	BA	2906	1/1	0.90	0.08	101,101,101,101	0
54	MG	DA	2997	1/1	0.90	0.14	41,41,41,41	0
54	MG	BA	2951	1/1	0.90	0.15	38,38,38,38	0
54	MG	DA	3162	1/1	0.90	0.22	55,55,55,55	0
54	MG	BA	3092	1/1	0.90	0.12	58,58,58,58	0
54	MG	BA	3363	1/1	0.90	0.11	79,79,79,79	0
54	MG	BA	2998	1/1	0.90	0.06	51,51,51,51	0
54	MG	BA	3366	1/1	0.90	0.10	69,69,69,69	0
54	MG	BA	3435	1/1	0.90	0.16	59,59,59,59	0
54	MG	BA	3139	1/1	0.90	0.07	40,40,40,40	0
54	MG	DA	3178	1/1	0.90	0.20	72,72,72,72	0
54	MG	DA	3737	1/1	0.90	0.17	88,88,88,88	0
54	MG	BB	205	1/1	0.91	0.12	74,74,74,74	0
54	MG	DA	3578	1/1	0.91	0.13	89,89,89,89	0
54	MG	BB	206	1/1	0.91	0.14	85,85,85,85	0
54	MG	AA	1772	1/1	0.91	0.15	71,71,71,71	0
54	MG	CA	1961	1/1	0.91	0.18	78,78,78,78	0
54	MG	CA	1703	1/1	0.91	0.18	62,62,62,62	0
54	MG	BA	3013	1/1	0.91	0.24	60,60,60,60	0
54	MG	AA	1969	1/1	0.91	0.06	89,89,89,89	0
54	MG	DA	3145	1/1	0.91	0.27	64,64,64,64	0
54	MG	BA	3470	1/1	0.91	0.11	79,79,79,79	0
54	MG	BA	3406	1/1	0.91	0.13	68,68,68,68	0
54	MG	BA	3188	1/1	0.91	0.16	68,68,68,68	0
54	MG	DA	2979	1/1	0.91	0.15	31,31,31,31	0
54	MG	BA	3055	1/1	0.91	0.15	58,58,58,58	0
54	MG	BA	3411	1/1	0.91	0.10	71,71,71,71	0
54	MG	DA	3595	1/1	0.91	0.10	80,80,80,80	0
54	MG	BA	3356	1/1	0.91	0.07	75,75,75,75	0
54	MG	BA	3413	1/1	0.91	0.07	92,92,92,92	0
54	MG	DA	2993	1/1	0.91	0.28	57,57,57,57	0
54	MG	CA	1717	1/1	0.91	0.19	76,76,76,76	0
54	MG	DA	3165	1/1	0.91	0.18	33,33,33,33	0
54	MG	BA	2973	1/1	0.91	0.15	47,47,47,47	0
54	MG	DA	3002	1/1	0.91	0.31	62,62,62,62	0
54	MG	DA	3607	1/1	0.91	0.09	62,62,62,62	0
54	MG	CA	1890	1/1	0.91	0.07	115,115,115,115	0
54	MG	DA	3460	1/1	0.91	0.16	72,72,72,72	0
54	MG	BA	3102	1/1	0.91	0.06	113,113,113,113	0
54	MG	BA	3196	1/1	0.91	0.36	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3250	1/1	0.91	0.27	93,93,93,93	0
54	MG	DA	3769	1/1	0.91	0.16	73,73,73,73	0
54	MG	BA	3419	1/1	0.91	0.07	101,101,101,101	0
54	MG	BA	3361	1/1	0.91	0.06	72,72,72,72	0
54	MG	DA	3011	1/1	0.91	0.14	78,78,78,78	0
54	MG	DA	3329	1/1	0.91	0.18	62,62,62,62	0
54	MG	DA	3620	1/1	0.91	0.12	98,98,98,98	0
54	MG	DA	3012	1/1	0.91	0.20	35,35,35,35	0
54	MG	AQ	101	1/1	0.91	0.08	83,83,83,83	0
54	MG	AA	1723	1/1	0.91	0.12	89,89,89,89	0
54	MG	BA	3062	1/1	0.91	0.13	61,61,61,61	0
54	MG	DA	3338	1/1	0.91	0.17	52,52,52,52	0
54	MG	DA	3191	1/1	0.91	0.27	89,89,89,89	0
54	MG	BA	3147	1/1	0.91	0.28	83,83,83,83	0
54	MG	DA	3020	1/1	0.91	0.21	58,58,58,58	0
54	MG	BA	2924	1/1	0.91	0.18	55,55,55,55	0
54	MG	CA	1731	1/1	0.91	0.06	86,86,86,86	0
54	MG	AA	1726	1/1	0.91	0.16	68,68,68,68	0
54	MG	DA	3639	1/1	0.91	0.20	71,71,71,71	0
54	MG	DA	3201	1/1	0.91	0.09	61,61,61,61	0
54	MG	DA	3033	1/1	0.91	0.11	42,42,42,42	0
54	MG	CP	203	1/1	0.91	0.09	93,93,93,93	0
54	MG	DA	3643	1/1	0.91	0.08	82,82,82,82	0
54	MG	AA	1859	1/1	0.91	0.08	77,77,77,77	0
54	MG	DA	3354	1/1	0.91	0.16	55,55,55,55	0
54	MG	CA	1652	1/1	0.91	0.09	49,49,49,49	0
54	MG	DA	3801	1/1	0.91	0.11	101,101,101,101	0
54	MG	BA	3308	1/1	0.91	0.22	78,78,78,78	0
54	MG	BA	3496	1/1	0.91	0.13	73,73,73,73	0
54	MG	BA	3209	1/1	0.91	0.19	58,58,58,58	0
54	MG	BA	3436	1/1	0.91	0.24	66,66,66,66	0
54	MG	AA	1869	1/1	0.91	0.07	83,83,83,83	0
54	MG	BA	3029	1/1	0.91	0.20	40,40,40,40	0
54	MG	BA	3030	1/1	0.91	0.12	47,47,47,47	0
54	MG	CA	1920	1/1	0.91	0.17	81,81,81,81	0
54	MG	CX	102	1/1	0.91	0.06	104,104,104,104	0
54	MG	AA	2006	1/1	0.91	0.06	86,86,86,86	0
54	MG	DA	3222	1/1	0.91	0.31	83,83,83,83	0
54	MG	BA	3442	1/1	0.91	0.06	89,89,89,89	0
54	MG	DA	3066	1/1	0.91	0.31	59,59,59,59	0
54	MG	AA	1647	1/1	0.91	0.34	71,71,71,71	0
54	MG	AA	1950	1/1	0.91	0.10	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3162	1/1	0.91	0.10	69,69,69,69	0
54	MG	BA	3384	1/1	0.91	0.17	76,76,76,76	0
54	MG	CA	1927	1/1	0.91	0.20	86,86,86,86	0
54	MG	DA	3079	1/1	0.91	0.22	59,59,59,59	0
54	MG	BU	203	1/1	0.91	0.08	74,74,74,74	0
54	MG	CA	1668	1/1	0.91	0.27	62,62,62,62	0
54	MG	BA	3449	1/1	0.91	0.16	76,76,76,76	0
54	MG	CA	1670	1/1	0.91	0.15	56,56,56,56	0
54	MG	BU	205	1/1	0.91	0.12	55,55,55,55	0
54	MG	DA	3685	1/1	0.91	0.05	66,66,66,66	0
54	MG	AA	1977	1/1	0.91	0.20	86,86,86,86	0
54	MG	BA	3077	1/1	0.91	0.13	46,46,46,46	0
54	MG	BA	2953	1/1	0.91	0.21	32,32,32,32	0
54	MG	DA	3095	1/1	0.91	0.11	46,46,46,46	0
54	MG	AA	1994	1/1	0.91	0.07	86,86,86,86	0
54	MG	BA	3578	1/1	0.91	0.16	98,98,98,98	0
54	MG	DA	3399	1/1	0.91	0.24	86,86,86,86	0
54	MG	CA	1939	1/1	0.91	0.05	87,87,87,87	0
54	MG	CD	113	1/1	0.91	0.06	80,80,80,80	0
54	MG	CA	1682	1/1	0.91	0.09	67,67,67,67	0
54	MG	DA	3403	1/1	0.91	0.14	69,69,69,69	0
54	MG	DH	202	1/1	0.91	0.13	98,98,98,98	0
54	MG	BA	3128	1/1	0.91	0.25	72,72,72,72	0
54	MG	DO	205	1/1	0.91	0.17	90,90,90,90	0
54	MG	CA	1764	1/1	0.91	0.05	83,83,83,83	0
54	MG	DA	3266	1/1	0.91	0.10	109,109,109,109	0
54	MG	DA	3551	1/1	0.91	0.08	68,68,68,68	0
54	MG	B8	101	1/1	0.91	0.14	76,76,76,76	0
54	MG	CA	1686	1/1	0.91	0.11	62,62,62,62	0
54	MG	CA	1603	1/1	0.91	0.30	56,56,56,56	0
54	MG	CA	1770	1/1	0.91	0.11	85,85,85,85	0
54	MG	D1	203	1/1	0.91	0.12	84,84,84,84	0
54	MG	CA	1859	1/1	0.91	0.08	121,121,121,121	0
54	MG	BA	3041	1/1	0.91	0.08	39,39,39,39	0
54	MG	DA	3115	1/1	0.91	0.22	55,55,55,55	0
54	MG	AA	1767	1/1	0.91	0.21	110,110,110,110	0
54	MG	BA	3340	1/1	0.91	0.13	77,77,77,77	0
54	MG	BA	3461	1/1	0.91	0.12	66,66,66,66	0
54	MG	DA	2917	1/1	0.91	0.23	27,27,27,27	0
54	MG	AA	1786	1/1	0.91	0.12	93,93,93,93	0
54	MG	DA	3423	1/1	0.91	0.07	62,62,62,62	0
54	MG	DA	2920	1/1	0.91	0.19	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	2924	1/1	0.91	0.13	17,17,17,17	0
54	MG	BA	2966	1/1	0.91	0.13	46,46,46,46	0
54	MG	DA	3288	1/1	0.91	0.31	91,91,91,91	0
54	MG	AA	1797	1/1	0.91	0.13	75,75,75,75	0
54	MG	CA	1615	1/1	0.91	0.11	40,40,40,40	0
54	MG	CW	201	1/1	0.92	0.30	67,67,67,67	0
54	MG	DA	3584	1/1	0.92	0.09	86,86,86,86	0
54	MG	DA	3586	1/1	0.92	0.25	72,72,72,72	0
54	MG	AA	1609	1/1	0.92	0.30	71,71,71,71	0
54	MG	BA	3408	1/1	0.92	0.08	75,75,75,75	0
54	MG	CW	204	1/1	0.92	0.12	68,68,68,68	0
54	MG	CA	1758	1/1	0.92	0.09	90,90,90,90	0
54	MG	CA	1608	1/1	0.92	0.11	53,53,53,53	0
54	MG	DA	3742	1/1	0.92	0.10	58,58,58,58	0
54	MG	DA	3026	1/1	0.92	0.21	34,34,34,34	0
54	MG	BA	2974	1/1	0.92	0.25	39,39,39,39	0
54	MG	DA	3031	1/1	0.92	0.12	53,53,53,53	0
54	MG	BA	3119	1/1	0.92	0.13	51,51,51,51	0
54	MG	DA	3183	1/1	0.92	0.23	56,56,56,56	0
54	MG	AA	1785	1/1	0.92	0.09	78,78,78,78	0
54	MG	CA	1614	1/1	0.92	0.12	67,67,67,67	0
54	MG	BA	2930	1/1	0.92	0.14	33,33,33,33	0
54	MG	CA	1931	1/1	0.92	0.08	84,84,84,84	0
54	MG	BA	2932	1/1	0.92	0.12	37,37,37,37	0
54	MG	DA	3042	1/1	0.92	0.14	48,48,48,48	0
54	MG	AA	1766	1/1	0.92	0.12	69,69,69,69	0
54	MG	BA	3172	1/1	0.92	0.22	72,72,72,72	0
54	MG	DA	3759	1/1	0.92	0.10	84,84,84,84	0
54	MG	DA	3331	1/1	0.92	0.11	70,70,70,70	0
54	MG	CA	1851	1/1	0.92	0.18	87,87,87,87	0
54	MG	BA	3073	1/1	0.92	0.23	71,71,71,71	0
54	MG	DA	3055	1/1	0.92	0.12	41,41,41,41	0
54	MG	AA	1848	1/1	0.92	0.08	70,70,70,70	0
54	MG	AA	1873	1/1	0.92	0.06	80,80,80,80	0
54	MG	DA	3058	1/1	0.92	0.26	54,54,54,54	0
54	MG	BA	2944	1/1	0.92	0.14	29,29,29,29	0
54	MG	DA	3060	1/1	0.92	0.13	57,57,57,57	0
54	MG	BB	219	1/1	0.92	0.06	124,124,124,124	0
54	MG	DA	3206	1/1	0.92	0.20	59,59,59,59	0
54	MG	CA	1702	1/1	0.92	0.12	71,71,71,71	0
54	MG	BA	3180	1/1	0.92	0.23	72,72,72,72	0
54	MG	AA	1692	1/1	0.92	0.13	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3182	1/1	0.92	0.07	41,41,41,41	0
54	MG	CA	1630	1/1	0.92	0.22	59,59,59,59	0
54	MG	DA	3215	1/1	0.92	0.23	58,58,58,58	0
54	MG	AA	2008	1/1	0.92	0.12	69,69,69,69	0
54	MG	DA	3632	1/1	0.92	0.07	73,73,73,73	0
54	MG	DA	3074	1/1	0.92	0.11	52,52,52,52	0
54	MG	BA	2949	1/1	0.92	0.28	62,62,62,62	0
54	MG	DA	3638	1/1	0.92	0.10	37,37,37,37	0
54	MG	CD	117	1/1	0.92	0.05	85,85,85,85	0
54	MG	BA	2950	1/1	0.92	0.13	29,29,29,29	0
54	MG	AA	2010	1/1	0.92	0.16	83,83,83,83	0
54	MG	BD	301	1/1	0.92	0.28	65,65,65,65	0
54	MG	DA	3087	1/1	0.92	0.19	41,41,41,41	0
54	MG	DA	3367	1/1	0.92	0.07	60,60,60,60	0
54	MG	AA	1667	1/1	0.92	0.14	61,61,61,61	0
54	MG	CA	1873	1/1	0.92	0.05	117,117,117,117	0
54	MG	DA	3648	1/1	0.92	0.12	63,63,63,63	0
54	MG	BA	3304	1/1	0.92	0.06	63,63,63,63	0
54	MG	BA	3249	1/1	0.92	0.25	59,59,59,59	0
54	MG	AA	1777	1/1	0.92	0.18	69,69,69,69	0
54	MG	BA	3190	1/1	0.92	0.22	78,78,78,78	0
54	MG	CA	1646	1/1	0.92	0.05	53,53,53,53	0
54	MG	DA	3375	1/1	0.92	0.13	57,57,57,57	0
54	MG	BF	301	1/1	0.92	0.15	80,80,80,80	0
54	MG	DA	2918	1/1	0.92	0.25	28,28,28,28	0
54	MG	DA	3239	1/1	0.92	0.12	67,67,67,67	0
54	MG	BA	3003	1/1	0.92	0.10	40,40,40,40	0
54	MG	DA	3380	1/1	0.92	0.15	78,78,78,78	0
54	MG	CA	1725	1/1	0.92	0.24	54,54,54,54	0
54	MG	BA	3560	1/1	0.92	0.11	48,48,48,48	0
54	MG	DA	3244	1/1	0.92	0.26	64,64,64,64	0
54	MG	CA	1885	1/1	0.92	0.15	74,74,74,74	0
54	MG	DA	3522	1/1	0.92	0.06	66,66,66,66	0
54	MG	DA	2935	1/1	0.92	0.14	33,33,33,33	0
54	MG	CA	1802	1/1	0.92	0.15	62,62,62,62	0
54	MG	BA	3004	1/1	0.92	0.10	30,30,30,30	0
54	MG	DA	3108	1/1	0.92	0.24	58,58,58,58	0
54	MG	DA	3258	1/1	0.92	0.06	76,76,76,76	0
54	MG	DA	3395	1/1	0.92	0.12	71,71,71,71	0
54	MG	DA	2945	1/1	0.92	0.26	40,40,40,40	0
54	MG	BA	3005	1/1	0.92	0.27	70,70,70,70	0
54	MG	BO	201	1/1	0.92	0.09	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3113	1/1	0.92	0.16	43,43,43,43	0
54	MG	BA	3316	1/1	0.92	0.26	110,110,110,110	0
54	MG	CA	1891	1/1	0.92	0.05	113,113,113,113	0
54	MG	BA	3097	1/1	0.92	0.10	59,59,59,59	0
54	MG	BA	3385	1/1	0.92	0.25	64,64,64,64	0
54	MG	BA	3053	1/1	0.92	0.19	43,43,43,43	0
54	MG	DA	3695	1/1	0.92	0.06	60,60,60,60	0
54	MG	DA	3545	1/1	0.92	0.26	74,74,74,74	0
54	MG	DA	3547	1/1	0.92	0.13	91,91,91,91	0
54	MG	BA	2957	1/1	0.92	0.12	33,33,33,33	0
54	MG	BA	3202	1/1	0.92	0.07	65,65,65,65	0
54	MG	BA	3389	1/1	0.92	0.08	89,89,89,89	0
54	MG	BA	3513	1/1	0.92	0.16	77,77,77,77	0
54	MG	DO	202	1/1	0.92	0.06	42,42,42,42	0
54	MG	CA	1816	1/1	0.92	0.20	65,65,65,65	0
54	MG	DO	204	1/1	0.92	0.15	65,65,65,65	0
54	MG	DA	2982	1/1	0.92	0.20	47,47,47,47	0
54	MG	BA	2958	1/1	0.92	0.13	44,44,44,44	0
54	MG	DA	2988	1/1	0.92	0.17	42,42,42,42	0
54	MG	BA	3322	1/1	0.92	0.19	72,72,72,72	0
54	MG	BA	3103	1/1	0.92	0.18	53,53,53,53	0
54	MG	AA	1877	1/1	0.92	0.19	80,80,80,80	0
54	MG	AC	104	1/1	0.92	0.06	85,85,85,85	0
54	MG	BA	3058	1/1	0.92	0.12	49,49,49,49	0
54	MG	DA	3289	1/1	0.92	0.18	63,63,63,63	0
54	MG	AA	1672	1/1	0.92	0.24	68,68,68,68	0
54	MG	AA	1659	1/1	0.92	0.10	81,81,81,81	0
54	MG	BA	3215	1/1	0.92	0.19	58,58,58,58	0
54	MG	DA	3428	1/1	0.92	0.17	55,55,55,55	0
54	MG	DA	3005	1/1	0.92	0.32	69,69,69,69	0
54	MG	CA	1673	1/1	0.92	0.18	63,63,63,63	0
54	MG	DA	3296	1/1	0.92	0.30	82,82,82,82	0
54	MG	BA	3157	1/1	0.92	0.07	45,45,45,45	0
54	MG	D3	102	1/1	0.92	0.10	72,72,72,72	0
54	MG	DA	3152	1/1	0.92	0.16	52,52,52,52	0
54	MG	DA	3726	1/1	0.92	0.14	75,75,75,75	0
54	MG	DA	3153	1/1	0.92	0.16	51,51,51,51	0
54	MG	DW	101	1/1	0.92	0.15	75,75,75,75	0
54	MG	DW	102	1/1	0.92	0.17	91,91,91,91	0
54	MG	AA	1665	1/1	0.92	0.24	59,59,59,59	0
54	MG	BA	3528	1/1	0.92	0.07	88,88,88,88	0
54	MG	BB	203	1/1	0.92	0.07	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1697	1/1	0.92	0.08	77,77,77,77	0
54	MG	DA	3029	1/1	0.93	0.16	34,34,34,34	0
54	MG	DA	3030	1/1	0.93	0.19	49,49,49,49	0
54	MG	BA	3078	1/1	0.93	0.23	57,57,57,57	0
54	MG	CA	1780	1/1	0.93	0.13	78,78,78,78	0
54	MG	BA	2960	1/1	0.93	0.11	49,49,49,49	0
54	MG	DA	3170	1/1	0.93	0.16	31,31,31,31	0
54	MG	DA	3308	1/1	0.93	0.22	49,49,49,49	0
54	MG	DA	3172	1/1	0.93	0.14	53,53,53,53	0
54	MG	BA	3309	1/1	0.93	0.05	61,61,61,61	0
54	MG	DA	3035	1/1	0.93	0.21	55,55,55,55	0
54	MG	AA	1962	1/1	0.93	0.07	55,55,55,55	0
54	MG	CA	1636	1/1	0.93	0.14	52,52,52,52	0
54	MG	CA	1943	1/1	0.93	0.06	110,110,110,110	0
54	MG	BA	3371	1/1	0.93	0.08	55,55,55,55	0
54	MG	BA	3311	1/1	0.93	0.11	48,48,48,48	0
54	MG	BA	3048	1/1	0.93	0.04	41,41,41,41	0
54	MG	BA	2928	1/1	0.93	0.17	46,46,46,46	0
54	MG	DA	3050	1/1	0.93	0.28	56,56,56,56	0
54	MG	AA	1854	1/1	0.93	0.11	97,97,97,97	0
54	MG	DA	3190	1/1	0.93	0.09	50,50,50,50	0
54	MG	DA	3600	1/1	0.93	0.23	107,107,107,107	0
54	MG	AA	1700	1/1	0.93	0.17	62,62,62,62	0
54	MG	BA	3174	1/1	0.93	0.26	90,90,90,90	0
54	MG	CA	1721	1/1	0.93	0.17	60,60,60,60	0
54	MG	DA	3330	1/1	0.93	0.14	49,49,49,49	0
54	MG	BA	3564	1/1	0.93	0.09	77,77,77,77	0
54	MG	DA	3608	1/1	0.93	0.25	74,74,74,74	0
54	MG	BA	3175	1/1	0.93	0.07	54,54,54,54	0
54	MG	DA	3333	1/1	0.93	0.09	50,50,50,50	0
54	MG	BA	3088	1/1	0.93	0.12	49,49,49,49	0
54	MG	DA	3200	1/1	0.93	0.23	52,52,52,52	0
54	MG	CA	1650	1/1	0.93	0.09	52,52,52,52	0
54	MG	BA	3443	1/1	0.93	0.04	79,79,79,79	0
54	MG	BA	3444	1/1	0.93	0.13	66,66,66,66	0
54	MG	DA	3065	1/1	0.93	0.06	46,46,46,46	0
54	MG	BA	2970	1/1	0.93	0.20	32,32,32,32	0
54	MG	CA	1881	1/1	0.93	0.06	105,105,105,105	0
54	MG	DA	3476	1/1	0.93	0.11	68,68,68,68	0
54	MG	DA	3069	1/1	0.93	0.18	52,52,52,52	0
54	MG	BA	3224	1/1	0.93	0.09	54,54,54,54	0
54	MG	DA	2907	1/1	0.93	0.18	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3323	1/1	0.93	0.05	58,58,58,58	0
54	MG	DA	3782	1/1	0.93	0.13	83,83,83,83	0
54	MG	DA	3483	1/1	0.93	0.13	66,66,66,66	0
54	MG	DA	3484	1/1	0.93	0.19	72,72,72,72	0
54	MG	DA	2911	1/1	0.93	0.27	34,34,34,34	0
54	MG	DA	3786	1/1	0.93	0.08	70,70,70,70	0
54	MG	DA	3076	1/1	0.93	0.12	38,38,38,38	0
54	MG	BA	3178	1/1	0.93	0.17	60,60,60,60	0
54	MG	DA	3633	1/1	0.93	0.11	62,62,62,62	0
54	MG	BU	201	1/1	0.93	0.34	75,75,75,75	0
54	MG	AA	1981	1/1	0.93	0.05	115,115,115,115	0
54	MG	DA	3637	1/1	0.93	0.12	74,74,74,74	0
54	MG	DA	3083	1/1	0.93	0.13	56,56,56,56	0
54	MG	AA	1721	1/1	0.93	0.29	72,72,72,72	0
54	MG	DA	3796	1/1	0.93	0.11	82,82,82,82	0
54	MG	DA	3494	1/1	0.93	0.06	110,110,110,110	0
54	MG	DA	3221	1/1	0.93	0.16	75,75,75,75	0
54	MG	CA	1966	1/1	0.93	0.10	82,82,82,82	0
54	MG	DA	2922	1/1	0.93	0.16	17,17,17,17	0
54	MG	BA	2936	1/1	0.93	0.20	50,50,50,50	0
54	MG	DA	3366	1/1	0.93	0.07	50,50,50,50	0
54	MG	AA	1790	1/1	0.93	0.14	53,53,53,53	0
54	MG	CA	1812	1/1	0.93	0.15	86,86,86,86	0
54	MG	BA	2942	1/1	0.93	0.27	36,36,36,36	0
54	MG	DA	2939	1/1	0.93	0.26	45,45,45,45	0
54	MG	CA	1894	1/1	0.93	0.08	61,61,61,61	0
54	MG	DA	3507	1/1	0.93	0.12	86,86,86,86	0
54	MG	AW	202	1/1	0.93	0.11	59,59,59,59	0
54	MG	BA	3339	1/1	0.93	0.09	74,74,74,74	0
54	MG	DA	3511	1/1	0.93	0.14	82,82,82,82	0
54	MG	DA	3658	1/1	0.93	0.31	88,88,88,88	0
54	MG	DA	2948	1/1	0.93	0.12	40,40,40,40	0
54	MG	DA	3099	1/1	0.93	0.29	60,60,60,60	0
54	MG	DA	3662	1/1	0.93	0.11	78,78,78,78	0
54	MG	DA	3100	1/1	0.93	0.06	62,62,62,62	0
54	MG	BA	3282	1/1	0.93	0.10	103,103,103,103	0
54	MG	AA	1658	1/1	0.93	0.13	57,57,57,57	0
54	MG	CA	1743	1/1	0.93	0.10	64,64,64,64	0
54	MG	CA	1979	1/1	0.93	0.06	104,104,104,104	0
54	MG	DA	3245	1/1	0.93	0.11	47,47,47,47	0
54	MG	BA	3022	1/1	0.93	0.09	46,46,46,46	0
54	MG	BA	3024	1/1	0.93	0.26	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3674	1/1	0.93	0.10	83,83,83,83	0
54	MG	DA	3524	1/1	0.93	0.18	54,54,54,54	0
54	MG	CA	1601	1/1	0.93	0.14	50,50,50,50	0
54	MG	CA	1823	1/1	0.93	0.07	66,66,66,66	0
54	MG	DA	3680	1/1	0.93	0.07	75,75,75,75	0
54	MG	DB	226	1/1	0.93	0.12	84,84,84,84	0
54	MG	DA	2970	1/1	0.93	0.14	49,49,49,49	0
54	MG	DA	3257	1/1	0.93	0.22	64,64,64,64	0
54	MG	BA	2945	1/1	0.93	0.18	39,39,39,39	0
54	MG	BA	3346	1/1	0.93	0.08	52,52,52,52	0
54	MG	DE	301	1/1	0.93	0.20	27,27,27,27	0
54	MG	DA	3533	1/1	0.93	0.07	91,91,91,91	0
54	MG	BA	3404	1/1	0.93	0.06	82,82,82,82	0
54	MG	AA	1752	1/1	0.93	0.16	75,75,75,75	0
54	MG	DA	2984	1/1	0.93	0.26	46,46,46,46	0
54	MG	BA	3111	1/1	0.93	0.15	53,53,53,53	0
54	MG	BA	3243	1/1	0.93	0.05	49,49,49,49	0
54	MG	BA	3351	1/1	0.93	0.04	69,69,69,69	0
54	MG	CA	1611	1/1	0.93	0.22	42,42,42,42	0
54	MG	DA	2992	1/1	0.93	0.17	43,43,43,43	0
54	MG	AA	1613	1/1	0.93	0.17	53,53,53,53	0
54	MG	BA	3353	1/1	0.93	0.16	75,75,75,75	0
54	MG	BA	3354	1/1	0.93	0.06	57,57,57,57	0
54	MG	CA	1838	1/1	0.93	0.22	83,83,83,83	0
54	MG	BA	3113	1/1	0.93	0.16	41,41,41,41	0
54	MG	AA	1739	1/1	0.93	0.10	66,66,66,66	0
54	MG	CT	201	1/1	0.93	0.06	76,76,76,76	0
54	MG	CA	1618	1/1	0.93	0.11	51,51,51,51	0
54	MG	AA	1862	1/1	0.93	0.12	77,77,77,77	0
54	MG	AA	1991	1/1	0.93	0.09	70,70,70,70	0
54	MG	DA	3009	1/1	0.93	0.17	41,41,41,41	0
54	MG	BA	2952	1/1	0.93	0.17	41,41,41,41	0
54	MG	BA	3481	1/1	0.93	0.07	80,80,80,80	0
54	MG	CA	1623	1/1	0.93	0.31	71,71,71,71	0
54	MG	DA	3420	1/1	0.93	0.07	91,91,91,91	0
54	MG	DA	3013	1/1	0.93	0.21	58,58,58,58	0
54	MG	DA	3291	1/1	0.93	0.28	76,76,76,76	0
54	MG	BA	3482	1/1	0.93	0.06	101,101,101,101	0
54	MG	AA	1796	1/1	0.93	0.16	75,75,75,75	0
54	MG	BA	3420	1/1	0.93	0.12	82,82,82,82	0
54	MG	DA	3155	1/1	0.93	0.16	40,40,40,40	0
54	MG	CC	104	1/1	0.93	0.11	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3571	1/1	0.93	0.16	81,81,81,81	0
54	MG	AA	1889	1/1	0.93	0.11	68,68,68,68	0
54	MG	BA	3487	1/1	0.93	0.08	74,74,74,74	0
54	MG	AA	1807	1/1	0.93	0.06	65,65,65,65	0
54	MG	AA	1688	1/1	0.93	0.14	39,39,39,39	0
54	MG	DA	2996	1/1	0.94	0.25	40,40,40,40	0
54	MG	DA	3418	1/1	0.94	0.07	59,59,59,59	0
54	MG	AA	1946	1/1	0.94	0.13	82,82,82,82	0
54	MG	DA	2998	1/1	0.94	0.09	44,44,44,44	0
54	MG	BA	3410	1/1	0.94	0.13	82,82,82,82	0
54	MG	AA	1630	1/1	0.94	0.30	55,55,55,55	0
54	MG	DA	3131	1/1	0.94	0.21	63,63,63,63	0
54	MG	BA	3538	1/1	0.94	0.06	65,65,65,65	0
54	MG	BA	2989	1/1	0.94	0.26	60,60,60,60	0
54	MG	CA	1843	1/1	0.94	0.07	76,76,76,76	0
54	MG	AA	1707	1/1	0.94	0.13	64,64,64,64	0
54	MG	BA	3259	1/1	0.94	0.07	90,90,90,90	0
54	MG	DA	3432	1/1	0.94	0.19	66,66,66,66	0
54	MG	AA	1751	1/1	0.94	0.17	73,73,73,73	0
54	MG	DA	3138	1/1	0.94	0.26	56,56,56,56	0
54	MG	BA	3083	1/1	0.94	0.10	37,37,37,37	0
54	MG	AH	202	1/1	0.94	0.08	80,80,80,80	0
54	MG	DA	3144	1/1	0.94	0.15	43,43,43,43	0
54	MG	DA	3744	1/1	0.94	0.12	68,68,68,68	0
54	MG	BA	2939	1/1	0.94	0.34	47,47,47,47	0
54	MG	BA	2965	1/1	0.94	0.05	30,30,30,30	0
54	MG	BA	3313	1/1	0.94	0.08	102,102,102,102	0
54	MG	AA	1837	1/1	0.94	0.06	59,59,59,59	0
54	MG	CA	1777	1/1	0.94	0.24	71,71,71,71	0
54	MG	CA	1632	1/1	0.94	0.22	62,62,62,62	0
54	MG	BA	3269	1/1	0.94	0.06	90,90,90,90	0
54	MG	DA	3154	1/1	0.94	0.25	56,56,56,56	0
54	MG	DA	3753	1/1	0.94	0.22	92,92,92,92	0
54	MG	BA	3225	1/1	0.94	0.06	49,49,49,49	0
54	MG	BA	3427	1/1	0.94	0.11	80,80,80,80	0
54	MG	DA	3599	1/1	0.94	0.28	80,80,80,80	0
54	MG	DA	3157	1/1	0.94	0.10	51,51,51,51	0
54	MG	CA	1783	1/1	0.94	0.15	47,47,47,47	0
54	MG	BA	3155	1/1	0.94	0.07	64,64,64,64	0
54	MG	CD	105	1/1	0.94	0.04	124,124,124,124	0
54	MG	DA	3763	1/1	0.94	0.09	71,71,71,71	0
54	MG	BA	3187	1/1	0.94	0.03	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3431	1/1	0.94	0.09	96,96,96,96	0
54	MG	CA	1639	1/1	0.94	0.12	42,42,42,42	0
54	MG	CA	1865	1/1	0.94	0.08	85,85,85,85	0
54	MG	BA	2915	1/1	0.94	0.14	34,34,34,34	0
54	MG	CA	1867	1/1	0.94	0.22	76,76,76,76	0
54	MG	DA	3036	1/1	0.94	0.22	50,50,50,50	0
54	MG	BA	3374	1/1	0.94	0.11	39,39,39,39	0
54	MG	AA	1988	1/1	0.94	0.07	93,93,93,93	0
54	MG	DA	3177	1/1	0.94	0.19	38,38,38,38	0
54	MG	DA	3040	1/1	0.94	0.12	44,44,44,44	0
54	MG	BA	2917	1/1	0.94	0.21	37,37,37,37	0
54	MG	BA	3231	1/1	0.94	0.08	68,68,68,68	0
54	MG	DA	3621	1/1	0.94	0.05	75,75,75,75	0
54	MG	DA	3325	1/1	0.94	0.07	64,64,64,64	0
54	MG	BA	3498	1/1	0.94	0.09	59,59,59,59	0
54	MG	DA	3045	1/1	0.94	0.27	57,57,57,57	0
54	MG	DA	3047	1/1	0.94	0.20	50,50,50,50	0
54	MG	BA	3033	1/1	0.94	0.15	45,45,45,45	0
54	MG	BA	3193	1/1	0.94	0.21	80,80,80,80	0
54	MG	AA	2009	1/1	0.94	0.09	71,71,71,71	0
54	MG	DA	3051	1/1	0.94	0.06	29,29,29,29	0
54	MG	BA	3327	1/1	0.94	0.10	65,65,65,65	0
54	MG	DA	3479	1/1	0.94	0.06	73,73,73,73	0
54	MG	DA	3334	1/1	0.94	0.16	45,45,45,45	0
54	MG	CA	1799	1/1	0.94	0.16	86,86,86,86	0
54	MG	DA	3192	1/1	0.94	0.10	61,61,61,61	0
54	MG	AA	1618	1/1	0.94	0.22	39,39,39,39	0
54	MG	BA	3331	1/1	0.94	0.28	80,80,80,80	0
54	MG	DA	2904	1/1	0.94	0.15	22,22,22,22	0
54	MG	DA	2906	1/1	0.94	0.17	27,27,27,27	0
54	MG	DA	3197	1/1	0.94	0.20	64,64,64,64	0
54	MG	BA	3198	1/1	0.94	0.06	58,58,58,58	0
54	MG	DA	3199	1/1	0.94	0.09	39,39,39,39	0
54	MG	BA	3333	1/1	0.94	0.12	62,62,62,62	0
54	MG	DA	2910	1/1	0.94	0.20	25,25,25,25	0
54	MG	BA	3508	1/1	0.94	0.04	90,90,90,90	0
54	MG	DA	2912	1/1	0.94	0.23	27,27,27,27	0
54	MG	DA	3352	1/1	0.94	0.07	66,66,66,66	0
54	MG	BA	3067	1/1	0.94	0.18	43,43,43,43	0
54	MG	BA	2901	1/1	0.94	0.08	61,61,61,61	0
54	MG	AA	1936	1/1	0.94	0.09	74,74,74,74	0
54	MG	DA	3070	1/1	0.94	0.17	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3210	1/1	0.94	0.21	75,75,75,75	0
54	MG	DA	3071	1/1	0.94	0.14	60,60,60,60	0
54	MG	DA	3657	1/1	0.94	0.20	88,88,88,88	0
54	MG	BA	3337	1/1	0.94	0.10	73,73,73,73	0
54	MG	CA	1809	1/1	0.94	0.14	78,78,78,78	0
54	MG	BA	3338	1/1	0.94	0.07	100,100,100,100	0
54	MG	CA	1970	1/1	0.94	0.16	87,87,87,87	0
54	MG	DA	2926	1/1	0.94	0.10	23,23,23,23	0
54	MG	DA	2927	1/1	0.94	0.15	53,53,53,53	0
54	MG	BA	3392	1/1	0.94	0.04	70,70,70,70	0
54	MG	DA	3667	1/1	0.94	0.21	112,112,112,112	0
54	MG	DA	3080	1/1	0.94	0.05	23,23,23,23	0
54	MG	CA	1972	1/1	0.94	0.06	61,61,61,61	0
54	MG	BA	3168	1/1	0.94	0.21	65,65,65,65	0
54	MG	CA	1893	1/1	0.94	0.10	81,81,81,81	0
54	MG	DA	3672	1/1	0.94	0.27	87,87,87,87	0
54	MG	DA	2940	1/1	0.94	0.19	25,25,25,25	0
54	MG	BA	3203	1/1	0.94	0.26	64,64,64,64	0
54	MG	DA	3225	1/1	0.94	0.12	45,45,45,45	0
54	MG	DA	2943	1/1	0.94	0.20	29,29,29,29	0
54	MG	BA	3395	1/1	0.94	0.07	60,60,60,60	0
54	MG	DA	3678	1/1	0.94	0.08	69,69,69,69	0
54	MG	BA	3134	1/1	0.94	0.24	61,61,61,61	0
54	MG	BA	3397	1/1	0.94	0.22	47,47,47,47	0
54	MG	BA	3011	1/1	0.94	0.14	57,57,57,57	0
54	MG	BA	3460	1/1	0.94	0.06	90,90,90,90	0
54	MG	CA	1671	1/1	0.94	0.10	77,77,77,77	0
54	MG	DA	3383	1/1	0.94	0.07	32,32,32,32	0
54	MG	BA	2927	1/1	0.94	0.23	32,32,32,32	0
54	MG	DH	204	1/1	0.94	0.20	77,77,77,77	0
54	MG	DO	201	1/1	0.94	0.08	55,55,55,55	0
54	MG	AA	1656	1/1	0.94	0.07	71,71,71,71	0
54	MG	DA	2959	1/1	0.94	0.14	26,26,26,26	0
54	MG	DA	2960	1/1	0.94	0.18	34,34,34,34	0
54	MG	CA	1905	1/1	0.94	0.04	92,92,92,92	0
54	MG	DA	3390	1/1	0.94	0.24	72,72,72,72	0
54	MG	DA	3102	1/1	0.94	0.18	49,49,49,49	0
54	MG	CH	202	1/1	0.94	0.13	72,72,72,72	0
54	MG	DA	3541	1/1	0.94	0.21	54,54,54,54	0
54	MG	BA	3294	1/1	0.94	0.19	65,65,65,65	0
54	MG	BA	3295	1/1	0.94	0.07	55,55,55,55	0
54	MG	DA	3700	1/1	0.94	0.10	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1610	1/1	0.94	0.20	51,51,51,51	0
54	MG	BA	3296	1/1	0.94	0.05	57,57,57,57	0
54	MG	DA	2980	1/1	0.94	0.27	44,44,44,44	0
54	MG	DA	3549	1/1	0.94	0.37	70,70,70,70	0
54	MG	DT	101	1/1	0.94	0.17	51,51,51,51	0
54	MG	DA	3255	1/1	0.94	0.19	53,53,53,53	0
54	MG	CA	1679	1/1	0.94	0.10	72,72,72,72	0
54	MG	AA	2002	1/1	0.94	0.07	81,81,81,81	0
54	MG	CA	1681	1/1	0.94	0.17	67,67,67,67	0
54	MG	DA	3260	1/1	0.94	0.05	53,53,53,53	0
54	MG	D3	101	1/1	0.94	0.19	48,48,48,48	0
54	MG	DA	3112	1/1	0.94	0.14	55,55,55,55	0
54	MG	CA	1755	1/1	0.94	0.20	70,70,70,70	0
54	MG	CQ	101	1/1	0.94	0.08	71,71,71,71	0
54	MG	BA	3531	1/1	0.94	0.14	75,75,75,75	0
54	MG	BA	3350	1/1	0.94	0.08	63,63,63,63	0
54	MG	BA	3211	1/1	0.94	0.04	43,43,43,43	0
54	MG	DA	3119	1/1	0.94	0.30	59,59,59,59	0
54	MG	BA	2984	1/1	0.94	0.13	48,48,48,48	0
54	MG	D7	101	1/1	0.94	0.24	55,55,55,55	0
54	MG	DA	3121	1/1	0.94	0.05	56,56,56,56	0
54	MG	DA	2994	1/1	0.94	0.18	37,37,37,37	0
54	MG	CA	1940	1/1	0.95	0.06	112,112,112,112	0
54	MG	DA	3777	1/1	0.95	0.06	53,53,53,53	0
54	MG	BA	3104	1/1	0.95	0.19	47,47,47,47	0
54	MG	BA	2908	1/1	0.95	0.05	102,102,102,102	0
54	MG	BA	2920	1/1	0.95	0.19	36,36,36,36	0
54	MG	BA	3107	1/1	0.95	0.06	61,61,61,61	0
54	MG	CA	1836	1/1	0.95	0.22	58,58,58,58	0
54	MG	DA	3469	1/1	0.95	0.13	51,51,51,51	0
54	MG	DA	3015	1/1	0.95	0.12	41,41,41,41	0
54	MG	BA	3208	1/1	0.95	0.12	68,68,68,68	0
54	MG	BA	3542	1/1	0.95	0.05	78,78,78,78	0
54	MG	BA	3288	1/1	0.95	0.06	66,66,66,66	0
54	MG	DA	3679	1/1	0.95	0.07	68,68,68,68	0
54	MG	AA	1757	1/1	0.95	0.07	45,45,45,45	0
54	MG	DA	3021	1/1	0.95	0.17	47,47,47,47	0
54	MG	DA	3023	1/1	0.95	0.13	28,28,28,28	0
54	MG	AA	1745	1/1	0.95	0.15	67,67,67,67	0
54	MG	BA	3141	1/1	0.95	0.17	52,52,52,52	0
54	MG	BA	2938	1/1	0.95	0.15	39,39,39,39	0
54	MG	DA	3585	1/1	0.95	0.06	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3023	1/1	0.95	0.25	52,52,52,52	0
54	MG	DA	3482	1/1	0.95	0.06	43,43,43,43	0
54	MG	AA	1703	1/1	0.95	0.14	49,49,49,49	0
54	MG	DA	3388	1/1	0.95	0.05	37,37,37,37	0
54	MG	CA	1796	1/1	0.95	0.05	35,35,35,35	0
54	MG	BA	2955	1/1	0.95	0.23	29,29,29,29	0
54	MG	BA	2976	1/1	0.95	0.13	38,38,38,38	0
54	MG	BA	3028	1/1	0.95	0.12	41,41,41,41	0
54	MG	CA	1602	1/1	0.95	0.14	29,29,29,29	0
54	MG	DA	2944	1/1	0.95	0.12	35,35,35,35	0
54	MG	BA	2956	1/1	0.95	0.11	38,38,38,38	0
54	MG	CC	106	1/1	0.95	0.04	79,79,79,79	0
54	MG	BA	2926	1/1	0.95	0.15	43,43,43,43	0
54	MG	BA	3466	1/1	0.95	0.04	84,84,84,84	0
54	MG	BA	3467	1/1	0.95	0.09	81,81,81,81	0
54	MG	BA	3059	1/1	0.95	0.20	59,59,59,59	0
54	MG	DA	3044	1/1	0.95	0.12	61,61,61,61	0
54	MG	DA	3128	1/1	0.95	0.07	40,40,40,40	0
54	MG	BA	3153	1/1	0.95	0.29	71,71,71,71	0
54	MG	BA	3426	1/1	0.95	0.07	43,43,43,43	0
54	MG	DA	3408	1/1	0.95	0.06	38,38,38,38	0
54	MG	DA	2957	1/1	0.95	0.18	20,20,20,20	0
54	MG	BA	2980	1/1	0.95	0.19	53,53,53,53	0
54	MG	CD	102	1/1	0.95	0.07	99,99,99,99	0
54	MG	BA	3516	1/1	0.95	0.13	56,56,56,56	0
54	MG	DA	2964	1/1	0.95	0.09	21,21,21,21	0
54	MG	BA	3305	1/1	0.95	0.12	62,62,62,62	0
54	MG	BA	3429	1/1	0.95	0.09	56,56,56,56	0
54	MG	DA	3324	1/1	0.95	0.12	34,34,34,34	0
54	MG	DA	2968	1/1	0.95	0.14	20,20,20,20	0
54	MG	DA	3619	1/1	0.95	0.09	52,52,52,52	0
54	MG	DA	2969	1/1	0.95	0.28	36,36,36,36	0
54	MG	DA	3143	1/1	0.95	0.20	68,68,68,68	0
54	MG	AA	1836	1/1	0.95	0.07	58,58,58,58	0
54	MG	DA	3234	1/1	0.95	0.10	32,32,32,32	0
54	MG	DA	3729	1/1	0.95	0.12	73,73,73,73	0
54	MG	DD	302	1/1	0.95	0.10	40,40,40,40	0
54	MG	DA	2973	1/1	0.95	0.18	24,24,24,24	0
54	MG	DA	3236	1/1	0.95	0.24	60,60,60,60	0
54	MG	BA	3090	1/1	0.95	0.12	61,61,61,61	0
54	MG	AA	2039	1/1	0.95	0.10	64,64,64,64	0
54	MG	CA	1617	1/1	0.95	0.11	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3271	1/1	0.95	0.07	59,59,59,59	0
54	MG	CA	1768	1/1	0.95	0.15	52,52,52,52	0
54	MG	DH	203	1/1	0.95	0.06	65,65,65,65	0
54	MG	BA	3009	1/1	0.95	0.18	57,57,57,57	0
54	MG	DA	2985	1/1	0.95	0.14	27,27,27,27	0
54	MG	DA	3634	1/1	0.95	0.11	63,63,63,63	0
54	MG	DA	3434	1/1	0.95	0.13	63,63,63,63	0
54	MG	CA	1872	1/1	0.95	0.22	84,84,84,84	0
54	MG	CA	1819	1/1	0.95	0.11	61,61,61,61	0
54	MG	BA	3126	1/1	0.95	0.05	42,42,42,42	0
54	MG	CD	118	1/1	0.95	0.05	60,60,60,60	0
54	MG	DA	3250	1/1	0.95	0.15	44,44,44,44	0
54	MG	D0	205	1/1	0.95	0.15	95,95,95,95	0
54	MG	CA	1982	1/1	0.95	0.04	80,80,80,80	0
54	MG	BA	3194	1/1	0.95	0.15	87,87,87,87	0
54	MG	AA	1691	1/1	0.95	0.20	62,62,62,62	0
54	MG	DA	2995	1/1	0.95	0.21	40,40,40,40	0
54	MG	BA	3355	1/1	0.95	0.13	64,64,64,64	0
54	MG	D1	204	1/1	0.95	0.19	71,71,71,71	0
54	MG	BA	2986	1/1	0.95	0.16	41,41,41,41	0
54	MG	DA	3546	1/1	0.95	0.24	68,68,68,68	0
54	MG	DA	3649	1/1	0.95	0.12	62,62,62,62	0
54	MG	BA	3038	1/1	0.95	0.12	39,39,39,39	0
54	MG	BA	3163	1/1	0.95	0.05	63,63,63,63	0
54	MG	DA	3000	1/1	0.95	0.16	31,31,31,31	0
54	MG	DA	3086	1/1	0.95	0.12	61,61,61,61	0
54	MG	DA	3760	1/1	0.95	0.06	206,206,206,206	0
54	MG	DA	3358	1/1	0.95	0.22	78,78,78,78	0
54	MG	DA	2901	1/1	0.95	0.18	28,28,28,28	0
54	MG	BA	3165	1/1	0.95	0.05	46,46,46,46	0
54	MG	D3	103	1/1	0.95	0.05	76,76,76,76	0
54	MG	DA	3362	1/1	0.95	0.15	58,58,58,58	0
54	MG	DA	2903	1/1	0.95	0.23	24,24,24,24	0
54	MG	BA	2963	1/1	0.95	0.13	32,32,32,32	0
54	MG	DA	3181	1/1	0.95	0.09	48,48,48,48	0
54	MG	DA	2905	1/1	0.95	0.21	23,23,23,23	0
54	MG	DA	3663	1/1	0.95	0.08	76,76,76,76	0
54	MG	DA	3459	1/1	0.95	0.05	64,64,64,64	0
54	MG	AA	1984	1/1	0.95	0.06	80,80,80,80	0
54	MG	DA	3272	1/1	0.95	0.21	66,66,66,66	0
54	MG	BA	2931	1/1	0.95	0.09	29,29,29,29	0
54	MG	BA	2902	1/1	0.96	0.09	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3039	1/1	0.96	0.09	48,48,48,48	0
54	MG	BA	2925	1/1	0.96	0.13	46,46,46,46	0
54	MG	DA	2950	1/1	0.96	0.18	52,52,52,52	0
54	MG	CA	1837	1/1	0.96	0.09	44,44,44,44	0
54	MG	DA	3427	1/1	0.96	0.11	65,65,65,65	0
54	MG	BA	2993	1/1	0.96	0.21	52,52,52,52	0
54	MG	AA	1683	1/1	0.96	0.20	60,60,60,60	0
54	MG	DA	2955	1/1	0.96	0.19	39,39,39,39	0
54	MG	BA	3341	1/1	0.96	0.05	119,119,119,119	0
54	MG	BA	3164	1/1	0.96	0.10	70,70,70,70	0
54	MG	DA	3229	1/1	0.96	0.08	33,33,33,33	0
54	MG	BA	3045	1/1	0.96	0.12	26,26,26,26	0
54	MG	BA	3197	1/1	0.96	0.09	103,103,103,103	0
54	MG	BA	3046	1/1	0.96	0.14	29,29,29,29	0
54	MG	DA	2963	1/1	0.96	0.22	45,45,45,45	0
54	MG	BA	2941	1/1	0.96	0.13	27,27,27,27	0
54	MG	BA	3075	1/1	0.96	0.12	37,37,37,37	0
54	MG	BE	302	1/1	0.96	0.09	85,85,85,85	0
54	MG	DA	3787	1/1	0.96	0.08	59,59,59,59	0
54	MG	CA	1909	1/1	0.96	0.06	74,74,74,74	0
54	MG	AA	1803	1/1	0.96	0.06	61,61,61,61	0
54	MG	BE	305	1/1	0.96	0.09	68,68,68,68	0
54	MG	BA	3566	1/1	0.96	0.06	56,56,56,56	0
54	MG	DA	3344	1/1	0.96	0.10	44,44,44,44	0
54	MG	DA	3242	1/1	0.96	0.09	46,46,46,46	0
54	MG	DA	3346	1/1	0.96	0.06	66,66,66,66	0
54	MG	DA	3561	1/1	0.96	0.22	59,59,59,59	0
54	MG	CA	1737	1/1	0.96	0.04	132,132,132,132	0
54	MG	DA	3348	1/1	0.96	0.16	58,58,58,58	0
54	MG	AC	108	1/1	0.96	0.07	61,61,61,61	0
54	MG	CD	114	1/1	0.96	0.04	109,109,109,109	0
54	MG	BA	3140	1/1	0.96	0.07	51,51,51,51	0
54	MG	BA	3239	1/1	0.96	0.09	49,49,49,49	0
54	MG	DA	3068	1/1	0.96	0.21	50,50,50,50	0
54	MG	BA	2977	1/1	0.96	0.09	33,33,33,33	0
54	MG	BA	3079	1/1	0.96	0.14	59,59,59,59	0
54	MG	DA	3252	1/1	0.96	0.22	65,65,65,65	0
54	MG	DA	3574	1/1	0.96	0.08	74,74,74,74	0
54	MG	DB	202	1/1	0.96	0.06	87,87,87,87	0
54	MG	DA	3253	1/1	0.96	0.19	67,67,67,67	0
54	MG	DA	3158	1/1	0.96	0.10	62,62,62,62	0
54	MG	BA	3025	1/1	0.96	0.10	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3360	1/1	0.96	0.06	67,67,67,67	0
54	MG	DA	3692	1/1	0.96	0.08	60,60,60,60	0
54	MG	DA	3693	1/1	0.96	0.06	56,56,56,56	0
54	MG	BA	3480	1/1	0.96	0.05	87,87,87,87	0
54	MG	CA	1980	1/1	0.96	0.13	50,50,50,50	0
54	MG	AA	1791	1/1	0.96	0.04	68,68,68,68	0
54	MG	BA	2959	1/1	0.96	0.07	36,36,36,36	0
54	MG	BA	3439	1/1	0.96	0.15	73,73,73,73	0
54	MG	AA	1718	1/1	0.96	0.05	63,63,63,63	0
54	MG	BA	3246	1/1	0.96	0.05	54,54,54,54	0
54	MG	DA	3701	1/1	0.96	0.13	92,92,92,92	0
54	MG	BA	3486	1/1	0.96	0.12	90,90,90,90	0
54	MG	BA	3247	1/1	0.96	0.14	63,63,63,63	0
54	MG	DA	3082	1/1	0.96	0.36	67,67,67,67	0
54	MG	DA	3173	1/1	0.96	0.06	57,57,57,57	0
54	MG	DA	3707	1/1	0.96	0.10	64,64,64,64	0
54	MG	DA	3475	1/1	0.96	0.08	56,56,56,56	0
54	MG	DA	3174	1/1	0.96	0.10	66,66,66,66	0
54	MG	DA	3175	1/1	0.96	0.18	34,34,34,34	0
54	MG	AA	1686	1/1	0.96	0.17	60,60,60,60	0
54	MG	DA	3084	1/1	0.96	0.19	47,47,47,47	0
54	MG	BA	3401	1/1	0.96	0.07	36,36,36,36	0
54	MG	BA	2947	1/1	0.96	0.14	30,30,30,30	0
54	MG	BA	2983	1/1	0.96	0.17	27,27,27,27	0
54	MG	DA	3277	1/1	0.96	0.20	59,59,59,59	0
54	MG	DA	2908	1/1	0.96	0.16	23,23,23,23	0
54	MG	DA	3486	1/1	0.96	0.06	90,90,90,90	0
54	MG	AA	1690	1/1	0.96	0.05	91,91,91,91	0
54	MG	CA	1643	1/1	0.96	0.18	66,66,66,66	0
54	MG	DG	202	1/1	0.96	0.10	84,84,84,84	0
54	MG	DA	3721	1/1	0.96	0.06	50,50,50,50	0
54	MG	DA	3282	1/1	0.96	0.16	63,63,63,63	0
54	MG	BA	3364	1/1	0.96	0.06	77,77,77,77	0
54	MG	BA	3010	1/1	0.96	0.18	55,55,55,55	0
54	MG	DA	3093	1/1	0.96	0.23	53,53,53,53	0
54	MG	BA	2933	1/1	0.96	0.12	50,50,50,50	0
54	MG	BA	3330	1/1	0.96	0.04	62,62,62,62	0
54	MG	BA	3035	1/1	0.96	0.10	48,48,48,48	0
54	MG	BA	3369	1/1	0.96	0.04	73,73,73,73	0
54	MG	DA	3391	1/1	0.96	0.09	40,40,40,40	0
54	MG	B5	101	1/1	0.96	0.15	46,46,46,46	0
54	MG	DA	3615	1/1	0.96	0.06	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3393	1/1	0.96	0.19	60,60,60,60	0
54	MG	BA	2922	1/1	0.96	0.19	46,46,46,46	0
54	MG	DA	2923	1/1	0.96	0.08	18,18,18,18	0
54	MG	CA	1710	1/1	0.96	0.15	53,53,53,53	0
54	MG	DA	3016	1/1	0.96	0.13	23,23,23,23	0
54	MG	CA	1767	1/1	0.96	0.13	68,68,68,68	0
54	MG	CA	1884	1/1	0.96	0.06	59,59,59,59	0
54	MG	DA	2928	1/1	0.96	0.19	32,32,32,32	0
54	MG	AA	1681	1/1	0.96	0.05	43,43,43,43	0
54	MG	DA	2932	1/1	0.96	0.15	23,23,23,23	0
54	MG	DA	3022	1/1	0.96	0.20	36,36,36,36	0
54	MG	DA	2933	1/1	0.96	0.28	31,31,31,31	0
54	MG	DT	102	1/1	0.96	0.21	64,64,64,64	0
54	MG	BA	3372	1/1	0.96	0.19	53,53,53,53	0
54	MG	CA	1654	1/1	0.96	0.07	80,80,80,80	0
54	MG	DA	2938	1/1	0.96	0.07	57,57,57,57	0
54	MG	DU	204	1/1	0.96	0.06	99,99,99,99	0
54	MG	BA	3458	1/1	0.96	0.06	76,76,76,76	0
54	MG	DA	3208	1/1	0.96	0.16	57,57,57,57	0
54	MG	BA	3096	1/1	0.96	0.08	37,37,37,37	0
54	MG	CC	101	1/1	0.96	0.05	70,70,70,70	0
54	MG	DA	2942	1/1	0.96	0.15	38,38,38,38	0
54	MG	DA	3523	1/1	0.96	0.04	64,64,64,64	0
54	MG	BA	2969	1/1	0.96	0.24	33,33,33,33	0
54	MG	DA	3525	1/1	0.96	0.15	78,78,78,78	0
54	MG	BA	3552	1/1	0.96	0.18	76,76,76,76	0
54	MG	BA	3260	1/1	0.96	0.31	77,77,77,77	0
54	MG	D5	101	1/1	0.96	0.11	54,54,54,54	0
54	MG	DA	2946	1/1	0.96	0.23	40,40,40,40	0
54	MG	BB	218	1/1	0.96	0.03	65,65,65,65	0
54	MG	DA	3530	1/1	0.96	0.21	59,59,59,59	0
54	MG	DA	3123	1/1	0.96	0.15	66,66,66,66	0
54	MG	DA	3320	1/1	0.96	0.10	131,131,131,131	0
54	MG	DA	2958	1/1	0.97	0.08	46,46,46,46	0
54	MG	DA	3025	1/1	0.97	0.12	25,25,25,25	0
54	MG	DA	3312	1/1	0.97	0.06	51,51,51,51	0
54	MG	BA	3289	1/1	0.97	0.26	71,71,71,71	0
54	MG	DA	3027	1/1	0.97	0.08	22,22,22,22	0
54	MG	BA	3001	1/1	0.97	0.13	40,40,40,40	0
54	MG	BA	3504	1/1	0.97	0.04	115,115,115,115	0
54	MG	BA	2919	1/1	0.97	0.13	29,29,29,29	0
54	MG	BA	3085	1/1	0.97	0.04	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1778	1/1	0.97	0.04	61,61,61,61	0
54	MG	AA	1712	1/1	0.97	0.06	50,50,50,50	0
54	MG	DA	2967	1/1	0.97	0.12	39,39,39,39	0
54	MG	DB	210	1/1	0.97	0.06	114,114,114,114	0
54	MG	AA	1811	1/1	0.97	0.04	81,81,81,81	0
54	MG	AA	1787	1/1	0.97	0.05	65,65,65,65	0
54	MG	DA	3731	1/1	0.97	0.06	67,67,67,67	0
54	MG	CA	1685	1/1	0.97	0.04	59,59,59,59	0
54	MG	DA	3248	1/1	0.97	0.15	56,56,56,56	0
54	MG	DA	2971	1/1	0.97	0.22	40,40,40,40	0
54	MG	DA	2972	1/1	0.97	0.26	41,41,41,41	0
54	MG	DA	2913	1/1	0.97	0.22	30,30,30,30	0
54	MG	DA	2914	1/1	0.97	0.13	19,19,19,19	0
54	MG	DA	2975	1/1	0.97	0.09	35,35,35,35	0
54	MG	DA	2978	1/1	0.97	0.11	24,24,24,24	0
54	MG	BA	3110	1/1	0.97	0.11	34,34,34,34	0
54	MG	CA	1687	1/1	0.97	0.06	76,76,76,76	0
54	MG	DA	3046	1/1	0.97	0.09	19,19,19,19	0
54	MG	DA	3259	1/1	0.97	0.27	71,71,71,71	0
54	MG	BA	3060	1/1	0.97	0.07	35,35,35,35	0
54	MG	BA	3047	1/1	0.97	0.08	41,41,41,41	0
54	MG	BA	3149	1/1	0.97	0.26	61,61,61,61	0
54	MG	DA	2921	1/1	0.97	0.05	32,32,32,32	0
54	MG	DA	3340	1/1	0.97	0.08	76,76,76,76	0
54	MG	BA	3252	1/1	0.97	0.07	38,38,38,38	0
54	MG	DA	3497	1/1	0.97	0.04	68,68,68,68	0
54	MG	DA	3052	1/1	0.97	0.04	42,42,42,42	0
54	MG	CA	1692	1/1	0.97	0.08	79,79,79,79	0
54	MG	DA	3500	1/1	0.97	0.04	60,60,60,60	0
54	MG	CD	101	1/1	0.97	0.08	53,53,53,53	0
54	MG	DA	2990	1/1	0.97	0.10	27,27,27,27	0
54	MG	DA	2925	1/1	0.97	0.25	38,38,38,38	0
54	MG	CA	1853	1/1	0.97	0.08	101,101,101,101	0
54	MG	CA	1693	1/1	0.97	0.04	64,64,64,64	0
54	MG	BA	3576	1/1	0.97	0.04	40,40,40,40	0
54	MG	DA	3273	1/1	0.97	0.03	39,39,39,39	0
54	MG	DA	2929	1/1	0.97	0.15	24,24,24,24	0
54	MG	DA	3129	1/1	0.97	0.12	57,57,57,57	0
54	MG	DA	3510	1/1	0.97	0.05	43,43,43,43	0
54	MG	CA	1773	1/1	0.97	0.04	87,87,87,87	0
54	MG	DA	3431	1/1	0.97	0.08	51,51,51,51	0
54	MG	DA	2931	1/1	0.97	0.20	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3329	1/1	0.97	0.05	69,69,69,69	0
54	MG	BA	3007	1/1	0.97	0.17	51,51,51,51	0
54	MG	DA	2934	1/1	0.97	0.10	22,22,22,22	0
54	MG	CA	1902	1/1	0.97	0.06	46,46,46,46	0
54	MG	DA	3602	1/1	0.97	0.06	116,116,116,116	0
54	MG	BA	3381	1/1	0.97	0.07	45,45,45,45	0
54	MG	DA	2937	1/1	0.97	0.15	25,25,25,25	0
54	MG	BA	2985	1/1	0.97	0.04	46,46,46,46	0
54	MG	DA	3286	1/1	0.97	0.24	58,58,58,58	0
54	MG	DA	3779	1/1	0.97	0.07	72,72,72,72	0
54	MG	CD	111	1/1	0.97	0.04	87,87,87,87	0
54	MG	AA	1880	1/1	0.97	0.04	80,80,80,80	0
54	MG	BA	3210	1/1	0.97	0.05	54,54,54,54	0
54	MG	BA	3522	1/1	0.97	0.08	54,54,54,54	0
54	MG	BA	3171	1/1	0.97	0.04	50,50,50,50	0
54	MG	BA	3234	1/1	0.97	0.04	42,42,42,42	0
54	MG	DA	3147	1/1	0.97	0.08	42,42,42,42	0
54	MG	BA	3212	1/1	0.97	0.13	87,87,87,87	0
54	MG	BA	2909	1/1	0.97	0.06	66,66,66,66	0
54	MG	DA	3150	1/1	0.97	0.22	54,54,54,54	0
54	MG	CD	119	1/1	0.97	0.05	95,95,95,95	0
54	MG	BA	3527	1/1	0.97	0.06	63,63,63,63	0
54	MG	BA	3098	1/1	0.97	0.20	60,60,60,60	0
54	MG	DA	3300	1/1	0.97	0.06	28,28,28,28	0
54	MG	AA	1626	1/1	0.97	0.09	55,55,55,55	0
54	MG	CA	1709	1/1	0.97	0.09	58,58,58,58	0
54	MG	CA	1640	1/1	0.97	0.05	53,53,53,53	0
54	MG	BA	2999	1/1	0.97	0.11	27,27,27,27	0
54	MG	BA	3418	1/1	0.97	0.06	65,65,65,65	0
54	MG	CA	1713	1/1	0.97	0.14	53,53,53,53	0
54	MG	DA	3543	1/1	0.97	0.04	96,96,96,96	0
54	MG	CA	1714	1/1	0.97	0.06	64,64,64,64	0
54	MG	DA	3233	1/1	0.97	0.18	51,51,51,51	0
54	MG	BA	3072	1/1	0.98	0.03	48,48,48,48	0
54	MG	AA	1968	1/1	0.98	0.03	80,80,80,80	0
54	MG	DA	3280	1/1	0.98	0.06	33,33,33,33	0
54	MG	DA	3757	1/1	0.98	0.05	54,54,54,54	0
54	MG	DA	3564	1/1	0.98	0.09	49,49,49,49	0
54	MG	BE	303	1/1	0.98	0.11	45,45,45,45	0
54	MG	AA	1660	1/1	0.98	0.06	60,60,60,60	0
54	MG	DA	2983	1/1	0.98	0.29	34,34,34,34	0
54	MG	DA	3077	1/1	0.98	0.20	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1778	1/1	0.98	0.03	55,55,55,55	0
54	MG	BA	3148	1/1	0.98	0.06	42,42,42,42	0
54	MG	BA	2968	1/1	0.98	0.05	29,29,29,29	0
54	MG	DA	3572	1/1	0.98	0.05	60,60,60,60	0
54	MG	C1	101	1/1	0.98	0.05	65,65,65,65	0
54	MG	BA	3452	1/1	0.98	0.03	57,57,57,57	0
54	MG	BA	3017	1/1	0.98	0.20	48,48,48,48	0
54	MG	CA	1856	1/1	0.98	0.03	74,74,74,74	0
54	MG	CA	1677	1/1	0.98	0.15	57,57,57,57	0
54	MG	DE	303	1/1	0.98	0.07	20,20,20,20	0
54	MG	DA	3458	1/1	0.98	0.05	71,71,71,71	0
54	MG	AA	1820	1/1	0.98	0.04	98,98,98,98	0
54	MG	BA	3262	1/1	0.98	0.04	58,58,58,58	0
54	MG	DA	3776	1/1	0.98	0.06	71,71,71,71	0
54	MG	AA	1784	1/1	0.98	0.05	76,76,76,76	0
54	MG	AA	1952	1/1	0.98	0.03	76,76,76,76	0
54	MG	DA	3646	1/1	0.98	0.07	87,87,87,87	0
54	MG	DA	3521	1/1	0.98	0.04	75,75,75,75	0
54	MG	BA	3265	1/1	0.98	0.06	40,40,40,40	0
54	MG	DA	3407	1/1	0.98	0.04	41,41,41,41	0
54	MG	DA	3139	1/1	0.98	0.10	33,33,33,33	0
54	MG	DA	3140	1/1	0.98	0.04	26,26,26,26	0
54	MG	BA	3021	1/1	0.98	0.06	35,35,35,35	0
54	MG	D0	201	1/1	0.98	0.11	38,38,38,38	0
54	MG	BA	3040	1/1	0.98	0.07	40,40,40,40	0
54	MG	CA	1827	1/1	0.98	0.04	100,100,100,100	0
54	MG	DA	3001	1/1	0.98	0.19	46,46,46,46	0
54	MG	BA	2934	1/1	0.98	0.27	42,42,42,42	0
54	MG	BA	3042	1/1	0.98	0.04	28,28,28,28	0
54	MG	BA	3108	1/1	0.98	0.05	41,41,41,41	0
54	MG	DA	2916	1/1	0.98	0.16	35,35,35,35	0
54	MG	DA	3254	1/1	0.98	0.08	38,38,38,38	0
54	MG	BA	3133	1/1	0.98	0.18	49,49,49,49	0
54	MG	BA	2914	1/1	0.98	0.12	17,17,17,17	0
54	MG	DA	2961	1/1	0.98	0.07	37,37,37,37	0
54	MG	D1	206	1/1	0.98	0.06	66,66,66,66	0
54	MG	BA	3303	1/1	0.98	0.09	41,41,41,41	0
54	MG	AA	1815	1/1	0.98	0.09	62,62,62,62	0
54	MG	BA	2990	1/1	0.98	0.10	48,48,48,48	0
54	MG	BA	2975	1/1	0.98	0.17	40,40,40,40	0
54	MG	DA	3604	1/1	0.98	0.05	43,43,43,43	0
54	MG	DA	3426	1/1	0.98	0.09	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3209	1/1	0.98	0.06	57,57,57,57	0
54	MG	DA	3485	1/1	0.98	0.04	56,56,56,56	0
54	MG	CA	1914	1/1	0.98	0.06	36,36,36,36	0
54	MG	AA	1974	1/1	0.98	0.12	96,96,96,96	0
54	MG	BA	2962	1/1	0.98	0.09	20,20,20,20	0
54	MG	DA	3062	1/1	0.98	0.18	50,50,50,50	0
54	MG	DA	3160	1/1	0.98	0.03	48,48,48,48	0
54	MG	BA	3219	1/1	0.98	0.04	48,48,48,48	0
54	MG	BA	3192	1/1	0.98	0.04	54,54,54,54	0
54	MG	AA	1943	1/1	0.98	0.06	83,83,83,83	0
54	MG	BA	3312	1/1	0.98	0.05	75,75,75,75	0
54	MG	BA	3091	1/1	0.98	0.10	59,59,59,59	0
54	MG	AA	2025	1/1	0.98	0.33	71,71,71,71	0
54	MG	BA	3093	1/1	0.98	0.07	65,65,65,65	0
54	MG	DA	2976	1/1	0.98	0.19	31,31,31,31	0
54	MG	BA	2940	1/1	0.98	0.19	27,27,27,27	0
54	MG	DA	3687	1/1	0.98	0.06	78,78,78,78	0
54	MG	DA	3171	1/1	0.98	0.10	45,45,45,45	0
55	ZN	AG	301	1/1	0.98	0.16	82,82,82,82	0
55	ZN	CQ	104	1/1	0.98	0.03	142,142,142,142	0
54	MG	DA	3623	1/1	0.99	0.02	81,81,81,81	0
54	MG	BA	3000	1/1	0.99	0.07	25,25,25,25	0
54	MG	DA	3659	1/1	0.99	0.04	52,52,52,52	0
54	MG	DA	2986	1/1	0.99	0.04	42,42,42,42	0
54	MG	DA	3053	1/1	0.99	0.04	28,28,28,28	0
54	MG	DA	3180	1/1	0.99	0.03	102,102,102,102	0
54	MG	BA	3425	1/1	0.99	0.02	98,98,98,98	0
54	MG	DD	303	1/1	0.99	0.13	43,43,43,43	0
54	MG	DA	2977	1/1	0.99	0.02	32,32,32,32	0
54	MG	DA	3309	1/1	0.99	0.04	20,20,20,20	0
54	MG	DA	3702	1/1	0.99	0.04	22,22,22,22	0
54	MG	AA	1961	1/1	0.99	0.04	46,46,46,46	0
54	MG	DA	3117	1/1	0.99	0.07	48,48,48,48	0
54	MG	DA	3552	1/1	0.99	0.04	130,130,130,130	0
54	MG	CA	1900	1/1	0.99	0.03	50,50,50,50	0
54	MG	AA	2000	1/1	0.99	0.03	38,38,38,38	0
54	MG	BA	3099	1/1	0.99	0.03	42,42,42,42	0
54	MG	DA	2954	1/1	0.99	0.03	16,16,16,16	0
54	MG	DA	3767	1/1	0.99	0.04	61,61,61,61	0
54	MG	BA	3326	1/1	0.99	0.04	54,54,54,54	0
55	ZN	AQ	102	1/1	0.99	0.04	142,142,142,142	0
55	ZN	CG	302	1/1	0.99	0.14	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3236	1/1	0.99	0.09	33,33,33,33	0
54	MG	DA	3166	1/1	1.00	0.02	25,25,25,25	0

5.5 Other polymers (i)

There are no such residues in this entry.