



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:38 PM UTC

PDB ID : 4V8C / pdb_00004v8c
Title : Crystal structure analysis of ribosomal decoding (near-cognate tRNA-leu complex with paromomycin).
Authors : Jenner, L.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2011-12-07
Resolution : 3.30 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
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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

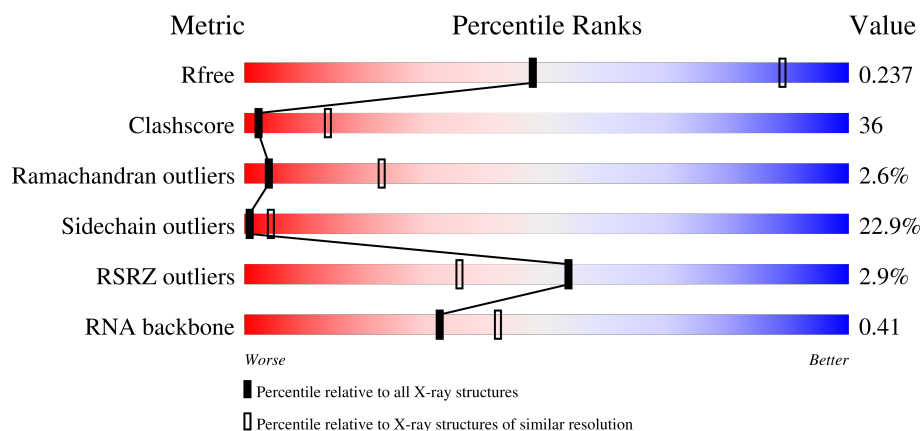
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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.



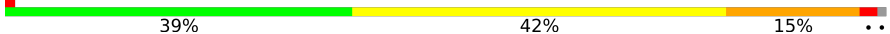
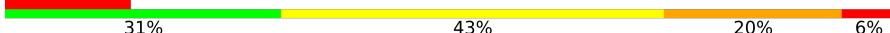
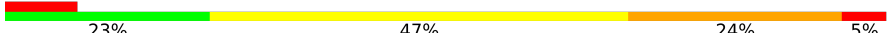
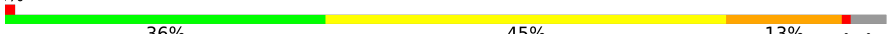
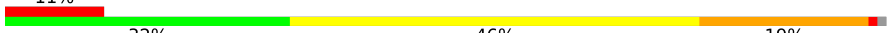
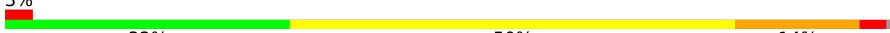
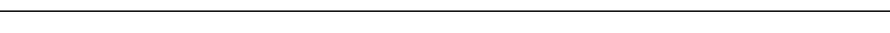
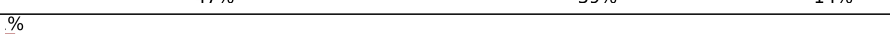
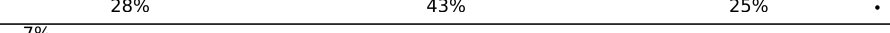
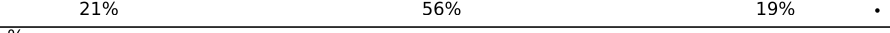
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)
RNA backbone	3983	1048 (3.60-3.00)

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

Mol	Chain	Length	Quality of chain
1	AA	2912	29% 52% 19%
1	BA	2912	28% 53% 19%
2	AB	122	31% 49% 20%
2	BB	122	25% 56% 20%

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Mol	Chain	Length	Quality of chain
3	AD	276	
3	BD	276	
4	AE	206	
4	BE	206	
5	AF	210	
5	BF	210	
6	AG	182	
6	BG	182	
7	AH	180	
7	BH	180	
8	AK	148	
8	BK	148	
9	AM	140	
9	BM	140	
10	AN	122	
10	BN	122	
11	AO	150	
11	BO	150	
12	AP	141	
12	BP	141	
13	A0	118	
13	B0	118	
14	AQ	112	
14	BQ	112	
15	AR	146	

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Mol	Chain	Length	Quality of chain
15	BR	146	
16	A1	118	
16	B1	118	
17	A2	101	
17	B2	101	
18	AS	113	
18	BS	113	
19	AT	96	
19	BT	96	
20	AU	110	
20	BU	110	
21	AV	206	
21	BV	206	
22	A3	85	
22	B3	85	
23	AZ	98	
23	BZ	98	
24	AW	72	
24	BW	72	
25	AX	60	
25	BX	60	
26	A4	71	
26	B4	71	
27	A5	60	
27	B5	60	

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Mol	Chain	Length	Quality of chain
28	A6	54	
28	B6	54	
29	A7	49	
29	B7	49	
30	A8	65	
30	B8	65	
31	CA	1506	
31	DA	1506	
32	CE	256	
32	DE	256	
33	CF	239	
33	DF	239	
34	CG	208	
34	DG	208	
35	CH	162	
35	DH	162	
36	CI	101	
36	DI	101	
37	CJ	156	
37	DJ	156	
38	CK	138	
38	DK	138	
39	CL	128	
39	DL	128	
40	CM	105	

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Mol	Chain	Length	Quality of chain
40	DM	105	
41	CN	129	
41	DN	129	
42	CO	132	
42	DO	132	
43	CP	126	
43	DP	126	
44	CQ	61	
44	DQ	61	
45	CR	89	
45	DR	89	
46	CS	88	
46	DS	88	
47	CT	105	
47	DT	105	
48	CU	88	
48	DU	88	
49	CV	93	
49	DV	93	
50	CW	106	
50	DW	106	
51	CX	27	
51	DX	27	
52	CB	87	
52	DB	87	

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Mol	Chain	Length	Quality of chain
53	CC	77	 % 40% 42% 18%
53	CD	77	 19% 53% 27%
53	DC	77	 % 29% 55% 17%
53	DD	77	 % 19% 53% 27%
54	C1	10	 10% 20% 60% 20%
54	D1	10	 10% 20% 60% 20%

2 Entry composition

There are 57 unique types of molecules in this entry. The entry contains 299682 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 RNA (2912-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	2912	Total	C	N	O	P	0	0	0
			62707	27911	11722	20163	2911			
1	BA	2909	Total	C	N	O	P	0	0	0
			62647	27884	11716	20139	2908			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	161	U	-	expression tag	GB AP008226.1
AA	654A	A	G	conflict	GB AP008226.1
AA	654E	C	G	conflict	GB AP008226.1
AA	654P	G	C	conflict	GB AP008226.1
AA	654T	A	C	conflict	GB AP008226.1
AA	1058	U	G	conflict	GB AP008226.1
AA	1080	A	C	conflict	GB AP008226.1
BA	158	U	-	expression tag	GB AP008226.1
BA	654A	A	G	conflict	GB AP008226.1
BA	654E	C	G	conflict	GB AP008226.1
BA	654P	G	C	conflict	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

- Molecule 2 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
2	BB	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

- Molecule 3 is a protein called 50S ribosomal protein L2.

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

- Molecule 4 is a protein called 50S ribosomal protein L3.

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

- Molecule 5 is a protein called 50S ribosomal protein L4.

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

- Molecule 6 is a protein called 50S ribosomal protein L5.

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

- Molecule 7 is a protein called 50S ribosomal protein L6.

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

- Molecule 8 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

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

- Molecule 9 is a protein called 50S ribosomal protein L13.

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

- Molecule 10 is a protein called 50S ribosomal protein L14.

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

- Molecule 11 is a protein called 50S ribosomal protein L15.

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

- Molecule 12 is a protein called 50S ribosomal protein L16.

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

- Molecule 13 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	A0	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
13	B0	117	Total	C	N	O	S	0	0	0
			960	599	202	159				

- Molecule 14 is a protein called 50S ribosomal protein L18.

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

- Molecule 15 is a protein called 50S ribosomal protein L19.

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

- Molecule 16 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	A1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
16	B1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 17 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	A2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
17	B2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

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

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

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

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

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

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

- Molecule 21 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AV	175	Total	C	N	O	S	0	0	0
			1397	892	251	251	3			
21	BV	179	Total	C	N	O	S	0	0	0
			1428	911	255	259	3			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	A3	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
22	B3	77	Total	C	N	O	S	0	0	0
			613	379	129	104	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

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

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AW	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

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

- Molecule 25 is a protein called 50S ribosomal protein L30.

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

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	A4	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			
26	B4	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	A5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
27	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	A6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			
28	B6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	A7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			
29	B7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	A8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			
30	B8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			

- Molecule 31 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	CA	1506	Total	C	N	O	P	0	0	0
			32369	14408	5997	10459	1505			
31	DA	1506	Total	C	N	O	P	0	0	0
			32372	14408	5997	10461	1506			

- Molecule 32 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	CE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			
32	DE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			

- Molecule 33 is a protein called 30S RIBOSOMAL PROTEIN S3.

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

- Molecule 34 is a protein called 30S RIBOSOMAL PROTEIN S4.

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

- Molecule 35 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	CH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
35	DH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 36 is a protein called 30S RIBOSOMAL PROTEIN S6.

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

- Molecule 37 is a protein called 30S RIBOSOMAL PROTEIN S7.

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

- Molecule 38 is a protein called 30S RIBOSOMAL PROTEIN S8.

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

- Molecule 39 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	CL	127	Total	C	N	O	0	0	0
			1010	639	197	174			
39	DL	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 40 is a protein called 30S RIBOSOMAL PROTEIN S10.

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	DM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

- Molecule 41 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	CN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
41	DN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 42 is a protein called 30S RIBOSOMAL PROTEIN S12.

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

- Molecule 43 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	CP	116	Total	C	N	O	S	0	0	0
			928	574	191	161	2			
43	DP	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			

- Molecule 44 is a protein called 30S RIBOSOMAL PROTEIN S14.

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

- Molecule 45 is a protein called 30S RIBOSOMAL PROTEIN S15.

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

- Molecule 46 is a protein called 30S RIBOSOMAL PROTEIN S16.

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

- Molecule 47 is a protein called 30S RIBOSOMAL PROTEIN S17.

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

- Molecule 48 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	CU	72	Total	C	N	O	0	0	0
			591	376	117	98			
48	DU	72	Total	C	N	O	0	0	0
			591	376	117	98			

- Molecule 49 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	CV	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			
49	DV	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			

- Molecule 50 is a protein called 30S RIBOSOMAL PROTEIN S20.

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

- Molecule 51 is a protein called 30S RIBOSOMAL PROTEIN THX.

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

- Molecule 52 is a RNA chain called TRNA-LEU.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	CB	87	Total	C	N	O	P	9	0	0
			1861	829	333	612	87			
52	DB	87	Total	C	N	O	P	8	0	0
			1861	829	333	612	87			

- Molecule 53 is a RNA chain called TRNA-FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	CC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
53	CD	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
53	DC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
53	DD	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
CC	18	C	U	conflict	GB AP012306.1
CD	18	C	U	conflict	GB AP012306.1
DC	18	C	U	conflict	GB AP012306.1
DD	18	C	U	conflict	GB AP012306.1

- Molecule 54 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	C1	10	Total	C	N	O	P	0	0	0
			205	92	26	77	10			
54	D1	10	Total	C	N	O	P	0	0	0
			205	92	26	77	10			

- Molecule 55 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

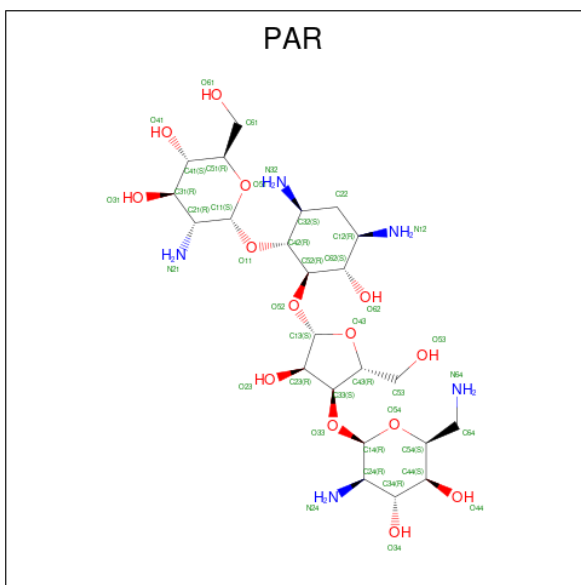
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	AA	626	Total Mg 626 626	0	0
55	AB	17	Total Mg 17 17	0	0
55	AD	1	Total Mg 1 1	0	0
55	AE	4	Total Mg 4 4	0	0
55	AF	3	Total Mg 3 3	0	0
55	AO	3	Total Mg 3 3	0	0
55	A0	1	Total Mg 1 1	0	0
55	A1	1	Total Mg 1 1	0	0
55	A2	1	Total Mg 1 1	0	0
55	AU	1	Total Mg 1 1	0	0
55	A3	1	Total Mg 1 1	0	0
55	AZ	1	Total Mg 1 1	0	0
55	A5	2	Total Mg 2 2	0	0
55	A6	1	Total Mg 1 1	0	0
55	A7	2	Total Mg 2 2	0	0
55	BA	528	Total Mg 528 528	0	0
55	BB	15	Total Mg 15 15	0	0
55	BD	1	Total Mg 1 1	0	0
55	BE	3	Total Mg 3 3	0	0
55	BP	1	Total Mg 1 1	0	0
55	BR	2	Total Mg 2 2	0	0
55	B1	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	B3	1	Total 1	Mg 1	0	0
55	B5	1	Total 1	Mg 1	0	0
55	CA	240	Total 240	Mg 240	0	0
55	CG	2	Total 2	Mg 2	0	0
55	CN	2	Total 2	Mg 2	0	0
55	CQ	2	Total 2	Mg 2	0	0
55	CT	1	Total 1	Mg 1	0	0
55	CB	5	Total 5	Mg 5	0	0
55	CC	7	Total 7	Mg 7	0	0
55	CD	1	Total 1	Mg 1	0	0
55	C1	1	Total 1	Mg 1	0	0
55	DA	204	Total 204	Mg 204	0	0
55	DG	2	Total 2	Mg 2	0	0
55	DH	1	Total 1	Mg 1	0	0
55	DS	1	Total 1	Mg 1	0	0
55	DB	2	Total 2	Mg 2	0	0
55	DC	8	Total 8	Mg 8	0	0

- Molecule 56 is PAROMOMYCIN (CCD ID: PAR) (formula: $C_{23}H_{45}N_5O_{14}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
56	CA	1	Total 42	C 23	N 5	O 14	0	0
56	DA	1	Total 42	C 23	N 5	O 14	0	0

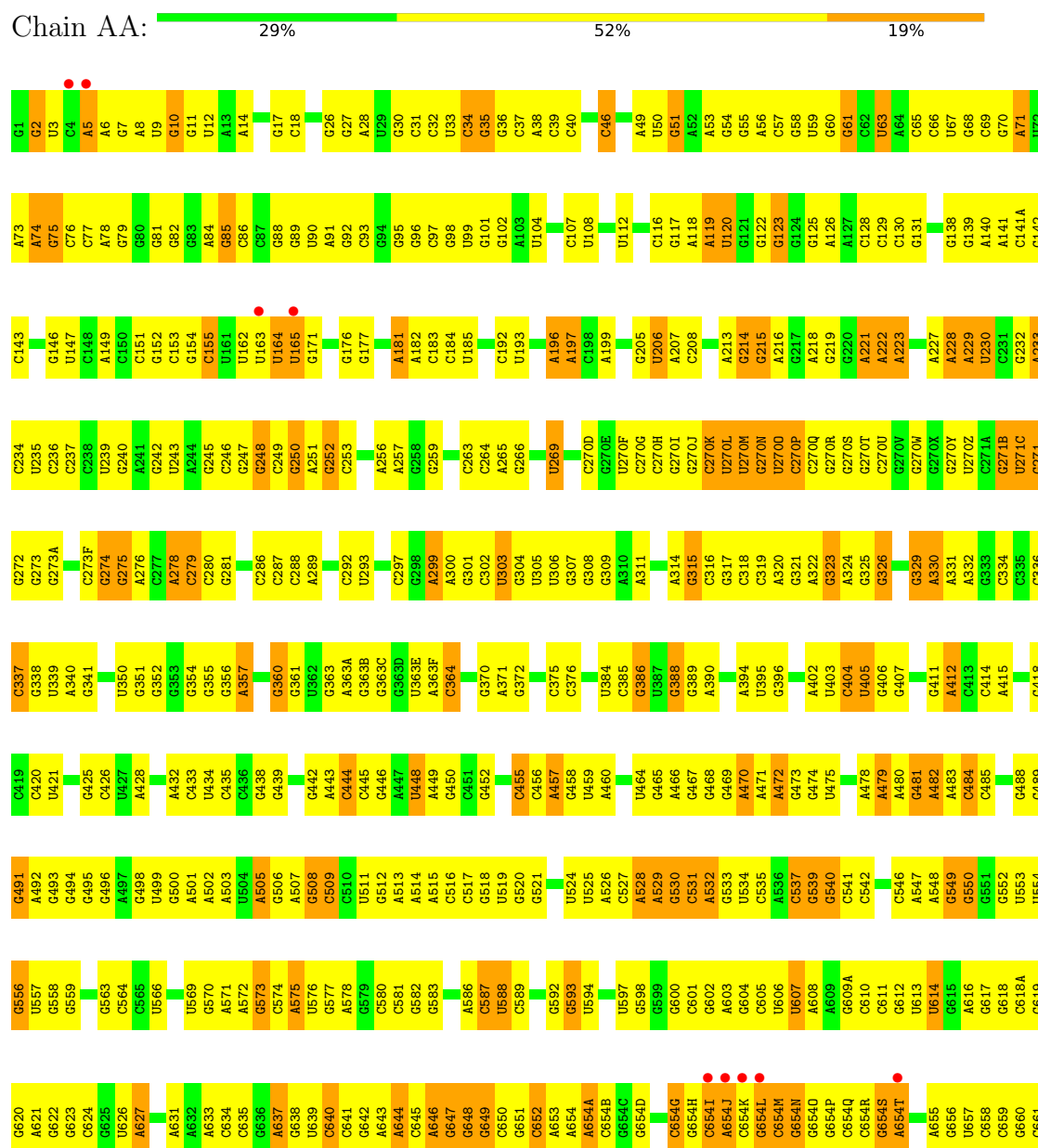
- Molecule 57 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	CG	1	Total Zn 1 1	0	0
57	CQ	1	Total Zn 1 1	0	0
57	DG	1	Total Zn 1 1	0	0
57	DQ	1	Total Zn 1 1	0	0

3 Residue-property plots

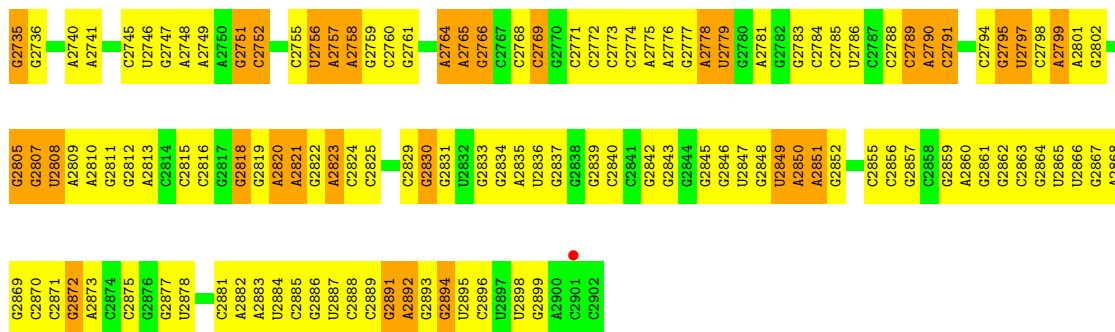
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: RNA (2912-MER)

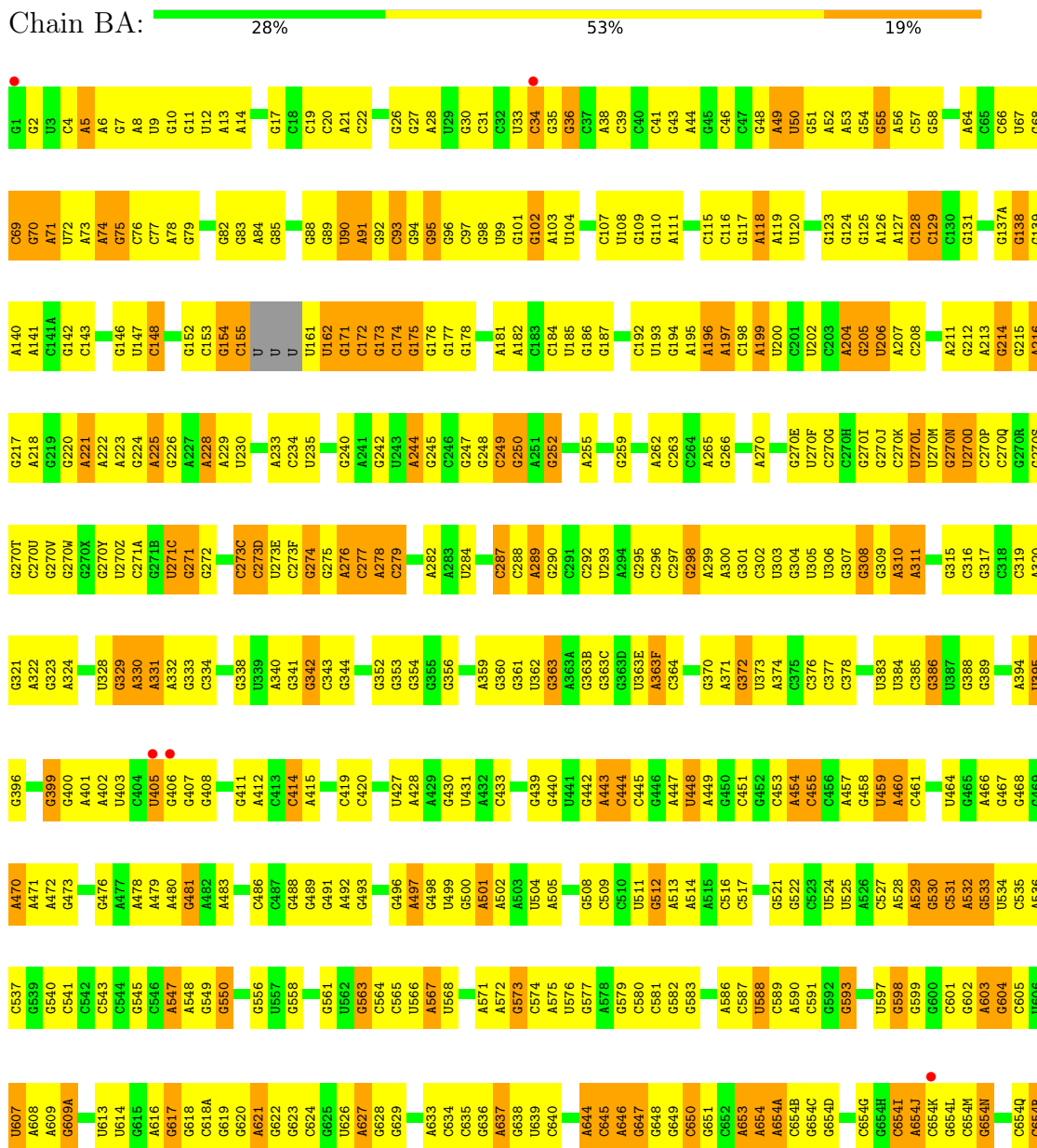


C1636	A1637	A1495	G1429	G1361	C1290	G1212	A1148	A1084	U1019	C955	C886	G818	A751	G662
A1557	C1557	A1496	C1430	G1365	C1291	G1215	G1149	A1085	A1020	G956	A887	A819	A752	G663
A1558	A1558	C1497	U1431	A1365	U1292	G1216	C1150	A1086	A1021	G957	C888	A820	C753	C664
C1639	C1639	C1432	C1432	G1368	C1295	C1217	G1151	A1087	G1022	U958	C889	A821	C754	C671
C1640	C1640	C1433	U1433	G1369	U1294	C1218	C1152	A1088	U1023	A959	A890	U822	C755	C672
A1641	A1641	U1434	G1435	G1372	G1296	G1219	C1153	A1089	G1024	A960	G892	G823	G760	C673
G1642	A1562	G1501	G1436	U1372	C1297	A1220	G1154	U1090	G1025	C961	C893	A824	A761	C674
G1643	C1563	C1502	C1437	A1373	C1298	A1227	A1156	G1092	U1026	G962	C894	G825	U762	A675
G1647	C1564	U1503	G1438	A1374	C1299	A1227	A1157	G1093	A1027	U963	C895	U826	G763	A676
C1648	A1566	C1504	U1439	C1375	U1300	G1228	G1158	U1094	A1028	C965	C897	U827	C764	C675
G1649	C1506	C1505	A1439	C1375	U1300	G1228	C1158	U1094	U1033	G966	C898	U828	G765	C676
G1650	A1567	C1506	G1440	A1379	A1301	C1230	U1159	A1095	G1033	C967	C899	G831	G766	C683
G1651	A1507	A1507	G1441	G1380	A1302	G1231	G1160	A1096	G1036	G968	A900	G832	G686	C686
A1569	A1508	G1442	G1442	G1381	G1303	G1232	C1161	U1097	U1037	G969	A901	U833	G769	G690
A1570	C1509	G1443	G1443	G1382	G1310	C1233	G1162	A1098	C1038	C971	C902	U834	G770	C691
A1571	A1510	G1444	A1444A	C1383	G1311	U1234	U1165	A1099	G1039	C972	G903	G835	G771	C692
A1655	A1511	A1444A	A1444A	C1384	U1312	G1235	U1166	C1100	C904	A973	C904	C838	A774	C693
C1575	G1512	G1448	G1448	C1385	U1313	G1236	U1167	C1102	U905	G974	U905	U839	G775	C694
C1576	C1513	G1449	G1449	C1386	U1314	A1237	G1168	A1103	G906	C975	G906	C840	G776	C695
C1577	U1514	A1449	A1449A	C1387	C1315	G1238	G1169	C1104	U907	G978	C908	A841	G777	C696
U1578	C1515	G1453	G1453	C1388	U1316	G1239	G1170	A1045	A1046	G979	C909	G842	G778	C697
A1579	U1516	A1453	G1454	G1389	A1317	U1240	G1171	G1106	U1046	G980	A910	C844	G779	C698
A1580	G1517	U1454	U1454	G1390	C1318	A1241	G1173	G1107	G1047	A981	A911	C845	G780	C699
G1581	C1518	U1455	G1455	U1391	G1319	A1242	A1174	U1108	A1048	A982	A912	C846	A781	C700
C1582	U1519	G1455	G1455	A1392	C1320	G1243	U1175	C1109	C1049	A981	C912	U847	G782	G701
A1583	U1520	G1455	G1455	A1392	C1320	G1243	U1176	C1110	A1050	C982	U913	U848	A783	G702
A1664	G1521	C1458	C1458	A1393	A1321	G1244	G1177	A1110	G1051	C983	C914	G849	G784	A705
A1665	G1522	U1459	U1459	U1394	A1322	G1250	A1177	A1111	C1052	A984	C915	A849	G785	C706
A1666	A1523	G1460	G1460	A1395	U1323	G1251	C1178	G1112	C1053	G985	G916	C850	G786	A706
C1667	G1525	G1461	G1461	U1396	G1326	C1252	C1179	U1113	A1054	C986	A917	U851	C787	C707
A1668	G1526	C1462	C1462	U1397	U1326	A1252	C1180	C1181	C1055	G987	A918	C852	G787	C708
C1527	C1527	G1463	G1463	C1398	C1327	A1253	C1182	C1117	G1056	A988	C919	G853	A789	C709
A1528	A1528	C1464	C1464	C1399	G1328	G1256	A1181	C1118	U1057	G989	U922	G854	G790	G710
A1529	C1529	G1465	G1465	G1400	U1329	C1257	G1183	C1119	C1058	A990	C923	C856	C791	G711
C1530	G1530	C1466	C1466	G1401	C1330	G1257	G1184	G1122	U1059	C991	G924	C857	G792	G715
C1531	C1531	C1467	C1467	C1402	A1331	G1258	C1185	G1122	U1060	C992	C925	U858	A793	A716
C1532	C1532	G1468	G1468	C1403	G1332	G1259	G1186	G1122	U1061	C993	A926	U859	G794	A717
C1533	C1533	A1469	A1469	C1404	A1336	G1260	G1187	G1125	G1062	C994	G928	U860	C795	A718
C1534	G1534	U1405	U1405	U1405	A1337	C1261	A1188	A1126	G1063	C995	G929	U861	C796	C719
U1535	U1535	U1406	G1337	U1406	G1337	U1262	A1189	A1127	U1064	A996	U930	G862	C797	C720
A1536	A1536	C1407	G1338	C1407	G1338	U1263	G1190	A1128	U1065	G997	G931	A863	A800	G728
C1537	C1537	C1408	G1339	C1408	G1339	U1264	G1191	A1129	U1066	C998	G932	G864	G801	G729
G1538	G1538	C1409	U1340	C1409	U1340	A1265	G1192	U1130	U1067	U999	G933	C865	A802	C730
G1539	G1539	G1410	U1341	G1410	U1341	G1266	G1193	G1131	G1068	A1000	A933	A866	G805	C731
G1540	G1540	C1411	U1342	C1411	G1344	U1267	A1194	A1132	U1069	A1001	G938	A870	G806	C732
U1541	U1541	A1412	G1344	A1412	C1344	A1268	G1195	U1133	A1070	G1002	G942	U871	U807	C733
G1542	G1542	G1413	C1345	G1413	C1345	C1270	C1196	C1135	G1071	G1003	G943	A872	A734	A734
A1543	A1543	C1414	G1346	C1414	G1346	G1271	G1197	G1136	C1072	A941	G944	G873	G808	G738
C1544	U1482	G1416	G1348	G1416	G1348	A1272	G1197	G1137	C1073	G1005	G945	U872	G809	G739
A1545	A1545	C1417	A1349	C1417	A1349	U1273	G1201	G1138	G1074	C1006	U943	A873	U810	U740
A1546A	A1546A	G1418	U1352	G1418	U1352	A1274	C1202	G1139	C1075	G1007	G944	G874	G812	C812
C1547	C1547	U1420	A1353	U1420	A1353	U1275	C1203	U1141	C1076	A1010	A945	G879	U811	U741
C1548	C1548	G1421	A1354	G1421	A1354	A1276	U1204	U1142	A1077	G1011	G946	G880	C813	C813
C1549	C1549	G1422	G1355	G1422	G1355	G1277	A1205	A1142	U1078	U1012	G946	G881	C814	G745
C1550	C1550	G1424	G1356	G1424	G1356	A1278	G1206	A1142A	C1079	C1013	G950	G882	C815	A746
G1491	G1491	G1425	U1357	G1425	U1357	G1279	C1208	G1144	A1080	U1014	C951	G883	C816	G747
G1492	G1492	G1426	G1358	G1426	G1358	A1287	C1209	C1145	U1081	G1015	G952	G884	C817	G748
A1553	A1553	G1427	A1359	G1427	A1359	A1287	A1210	C1146	U1082	G1016	G954	C885	C817	C817
A1632	A1632	G1493	A1494	G1493	A1494	A1287	U1211	C1147	U1083	G1016	G954	C885	C817	C817



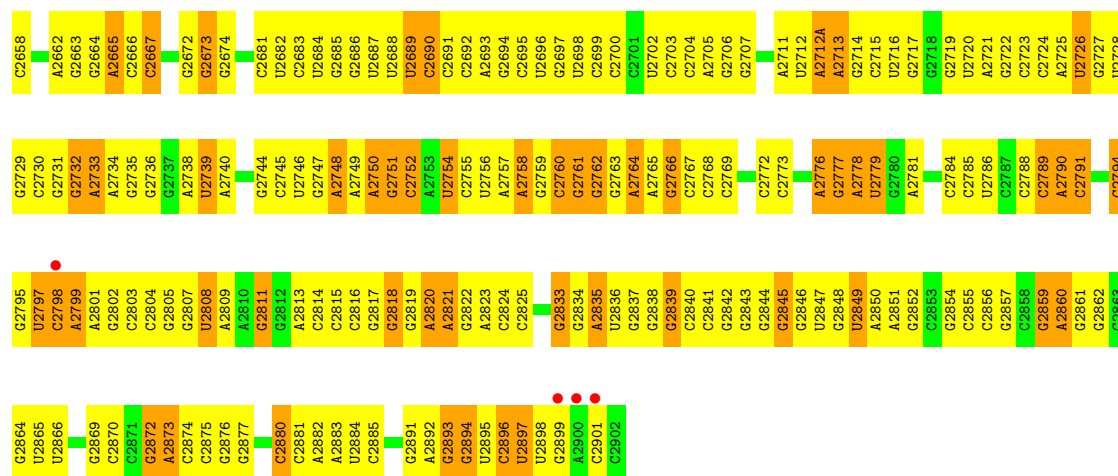


• Molecule 1: RNA (2912-MER)

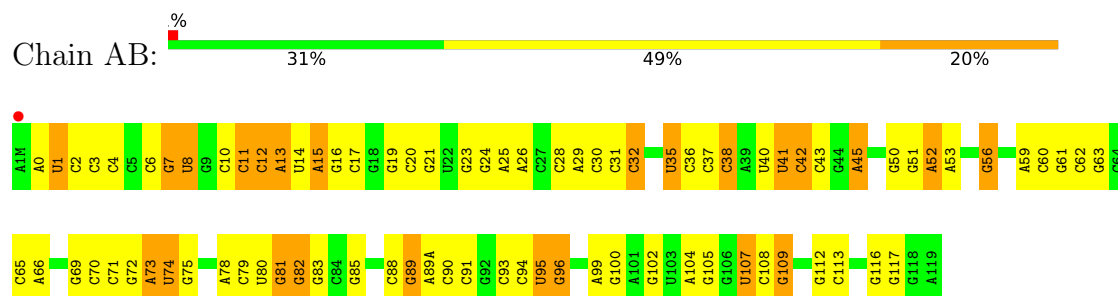


A1587	C1588	G1519	U1390	C1320	A1253	G1183	C1121	G1056	G993	G928	A866	A804	G723	G654S
C1589	C1590	G1520	U1391	A1321	A1254	G1184	G1122	A1057	C994	G929	C867	G805	G726	A654I
G1525	G1526	G1527	A1392	A1322	U1255	G1187	C1123	U1058	C995	U930	U869	C906	A727	A654V
G1594	G1595	G1596	A1393	U1323	G1256	G1188	C1124	G1059	A996	G931	G868	U807	G728	A655
A1596	A1597	A1598	U1396	G1325	C1257	A1189	G1125	U1060	G997	G932	U808	G809	G729	G656
C1598	C1599	C1600	U1397	U1396	G1258	A1190	A1126	U1061	C998	A933	U871	C980	G730	U657
G1601	G1602	G1603	G1401	C1327	G1259	G1191	A1128	G1062	U999	C934	A872	U810	C731	C658
A1604	A1605	A1606	G1402	G1328	C1261	G1196	A1129	G1063	A1000	C935	G874	C812	C732	C659
C1607	C1608	C1609	C1403	U1329	A1262	C1197	U1130	U1065	A1001	G936	G875	U813	G733	G660
A1610	A1611	A1612	C1404	C1330	U1263	G1198	U1131	U1066	G1002	U937	C876	C814	A734	C661
G1614	G1615	G1616	A1331	G1332	G1264	U1199	A1132	A1067	C1004	G938	U877	C815	G747	C665
C1617	C1618	C1619	U1405	G1336	A1265	C1200	C1135	A1068	C1006	G942	G878	C816	G748	G666
A1620	A1621	A1622	U1406	A1337	G1266	G1201	G1136	A1069	C1007	U943	G880	C817	G749	U667
G1625	G1626	G1627	C1407	U1336	U1267	C1202	G1137	A1070	C1008	U944	G881	A819	A751	G668
A1628	A1629	A1630	C1408	G1337	A1268	C1203	C1138	A1071	G1009	G945	G882	A820	A752	G669
C1631	C1632	C1633	C1409	G1338	A1269	G1204	G1139	A1072	A995	U946	G883	A821	G753	A670
G1635	G1636	G1637	G1410	G1339	C1270	U1205	C1140	G1073	A996	G947	C884	A824	C754	C671
A1638	A1639	A1640	C1411	U1340	G1271	G1206	U1141	G1074	G1011	G948	C885	G825	C755	C672
C1641	C1642	C1643	A1412	U1341	A1272	C1207	U1142	C1075	C1012	G952	C886	G826	C756	G674
G1644	G1645	G1646	G1413	G1342	A1273	C1208	A1142A	A1076	U1013	A953	C887	U827	U757	A675
A1647	A1648	A1649	G1414	G1343	A1274	G1209	A1143	A1077	G1014	G954	C888	U828	G760	A676
C1651	C1652	C1653	U1415	G1344	A1275	U1210	G1144	A1080	G1016	C955	C889	A829	A761	G681
A1654	A1655	A1656	G1416	C1345	A1278	U1211	C1147	U1081	G1017	G956	C892	G831	A764	G682
C1657	C1658	C1659	C1417	G1346	G1279	G1212	A1148	U1082	C1018	A957	C893	G832	G765	G683
A1660	A1661	A1662	G1418	G1347	G1280	C1217	C1149	U1083	A1019	U958	C894	U833	C766	G686
G1663	G1664	G1665	A1419	A1348	A1281	C1218	G1151	A1084	G1020	A959	C895	A835	C772	U688
C1666	C1667	C1668	U1420	G1349	G1282	G1219	C1152	A1085	A1021	A960	C896	A836	C773	A689
A1669	A1670	A1671	G1421	U1352	A1284	G1220	G1153	A1086	G1022	C961	C897	G836	A774	G690
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G1675	G1676	G1677	A1423	G1356	A1286	G1221	C1155	A1088	G1024	U963	A899	C838	G776	C692
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C1681	C1682	C1683	C1425	G1358	G1289	G1226	G1157	U1090	A1028	C971	C902	A841	G778	U694
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A1687	A1688	A1689	U1427	G1364	U1292	G1228	G1159	A1095	G1034	A973	U905	C844	G785	G695
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A1702	A1703	A1704	U1432	G1369	U1300	A1301	U1164	U1101	G1039	G976	A910	A849	A784	A706
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G1708	G1709	G1710	A1434	G1373	A1307	U1240	G1167	A1103	G1041	G978	C913	U852	C786	C708
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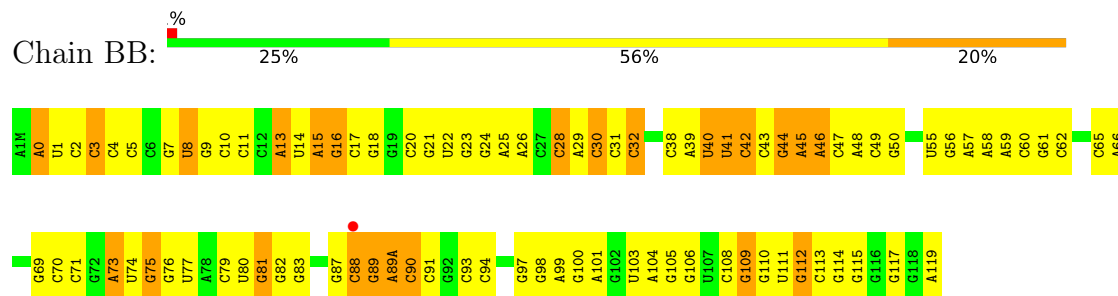




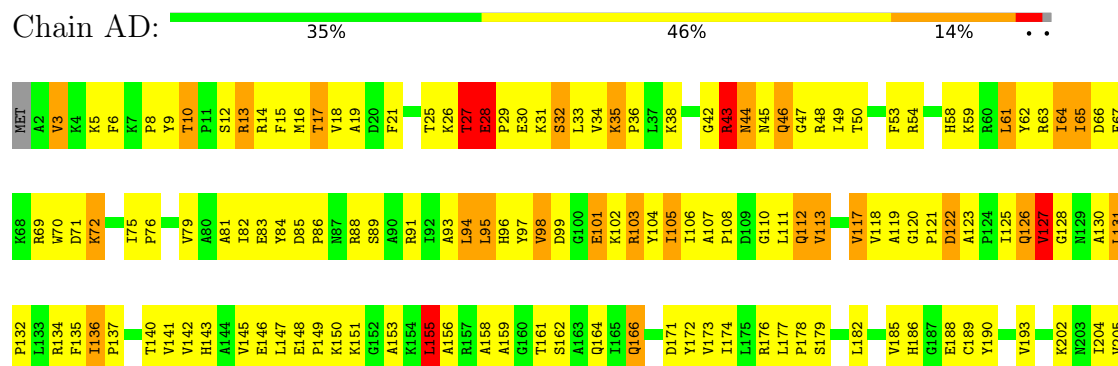
• Molecule 2: 5S RIBOSOMAL RNA



• Molecule 2: 5S RIBOSOMAL RNA

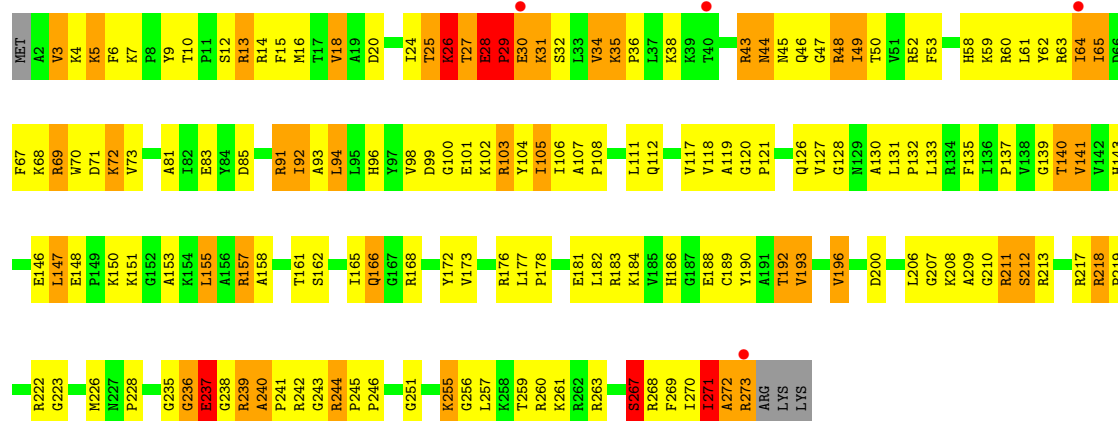


• Molecule 3: 50S ribosomal protein L2

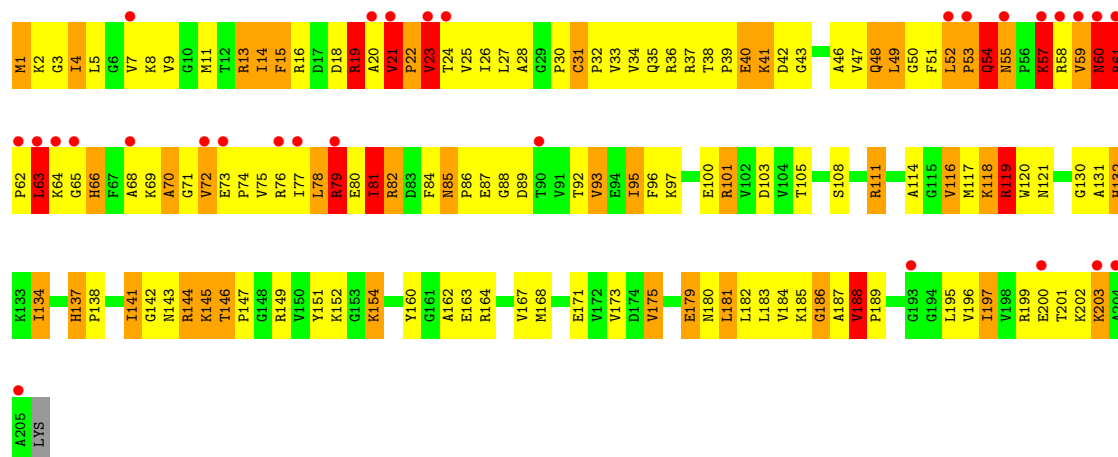




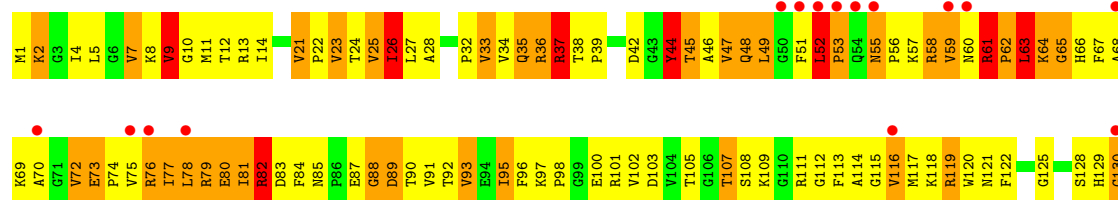
- Molecule 3: 50S ribosomal protein L2



- Molecule 4: 50S ribosomal protein L3

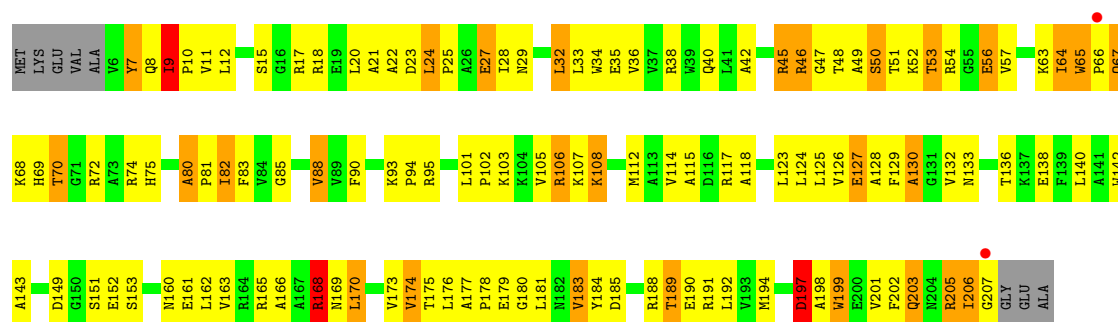


- Molecule 4: 50S ribosomal protein L3

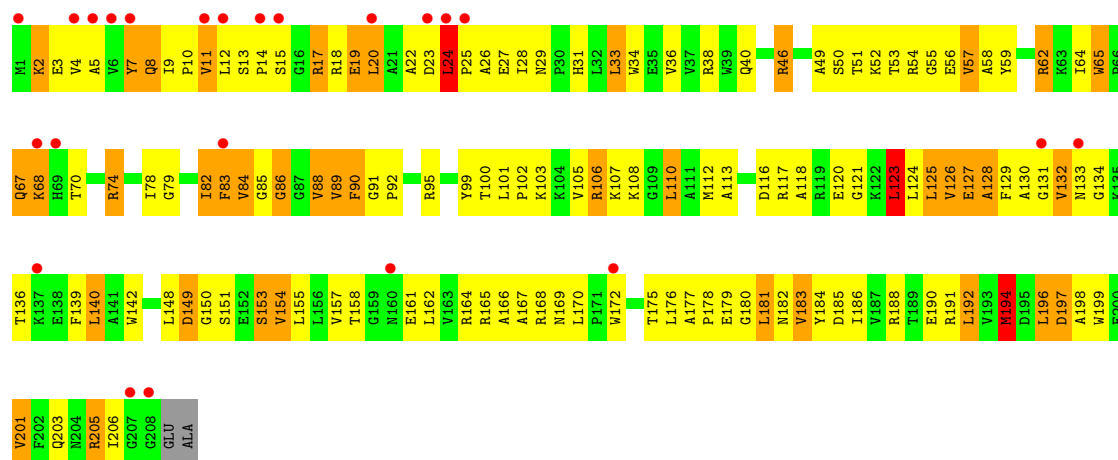




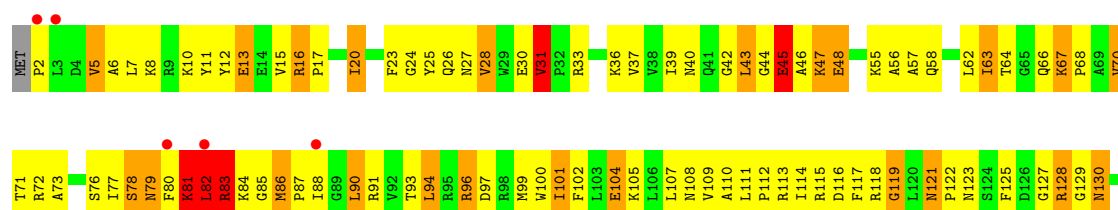
• Molecule 5: 50S ribosomal protein L4



• Molecule 5: 50S ribosomal protein L4

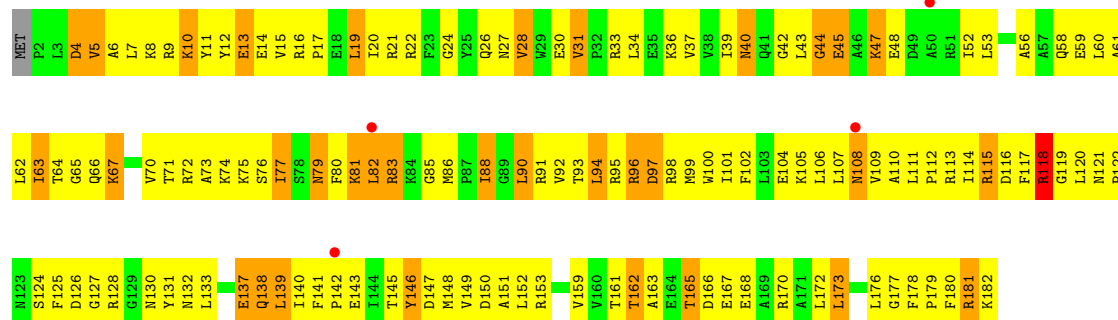


• Molecule 6: 50S ribosomal protein L5

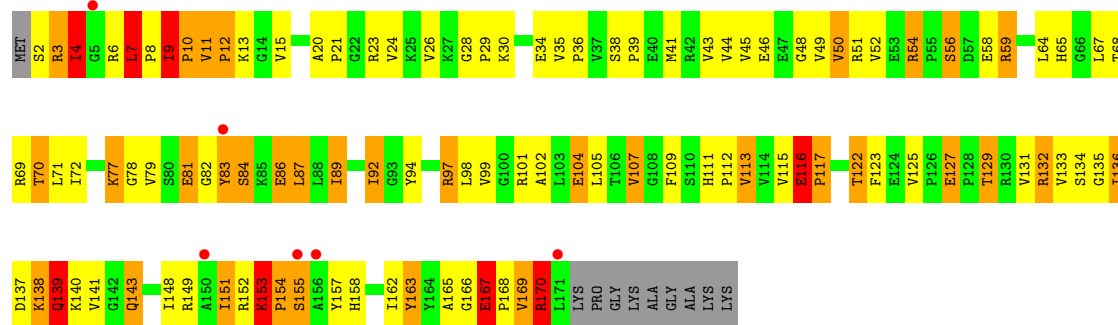




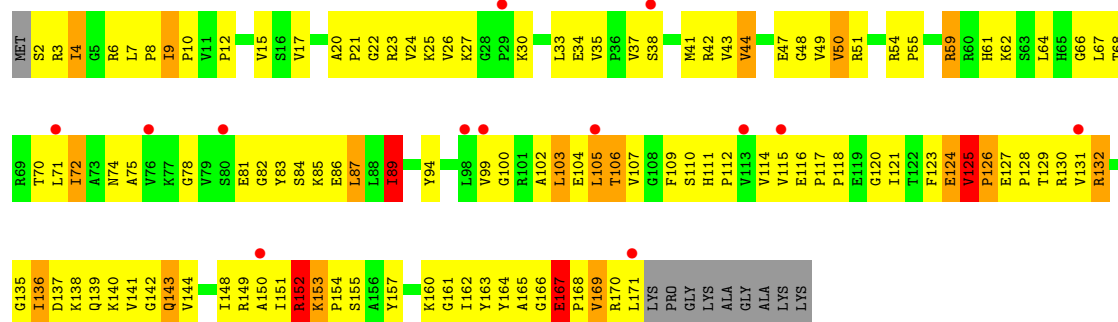
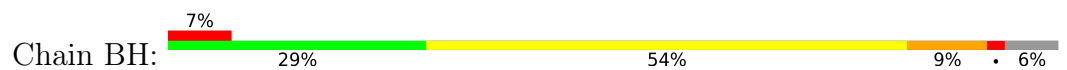
• Molecule 6: 50S ribosomal protein L5



• Molecule 7: 50S ribosomal protein L6

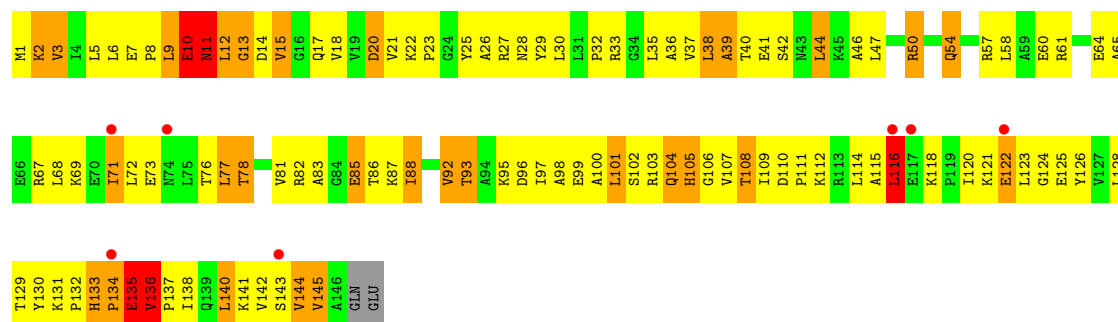


• Molecule 7: 50S ribosomal protein L6

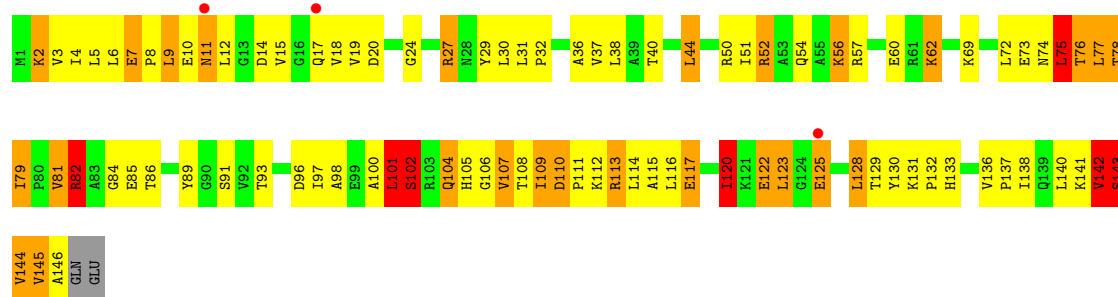


• Molecule 8: 50S ribosomal protein L9

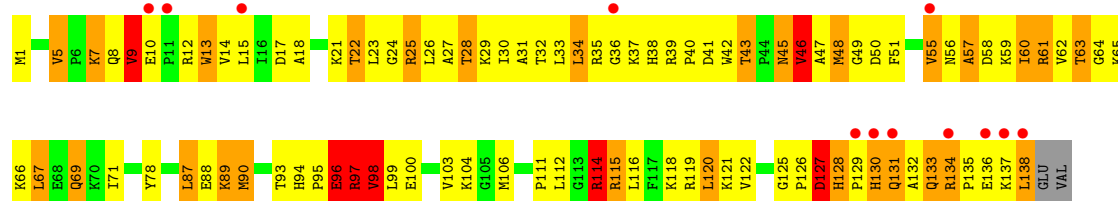




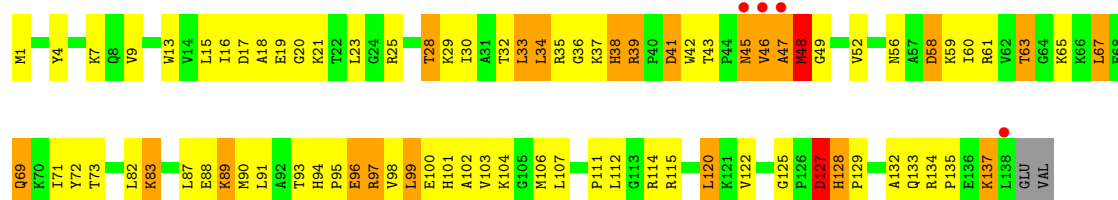
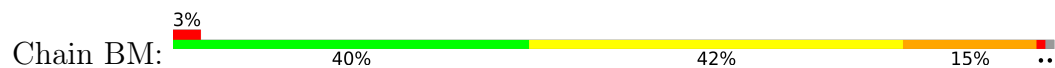
• Molecule 8: 50S ribosomal protein L9



• Molecule 9: 50S ribosomal protein L13

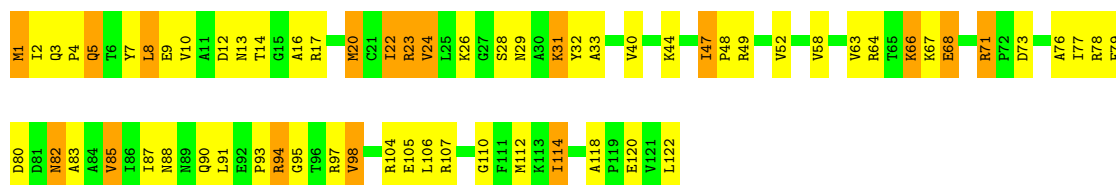


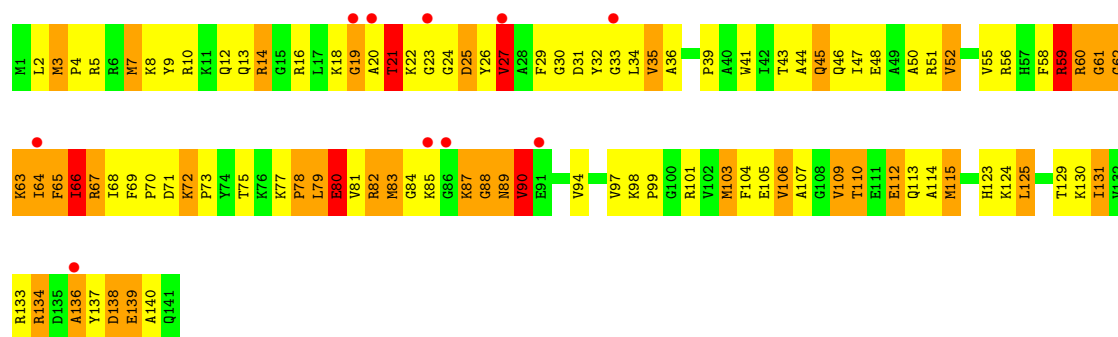
• Molecule 9: 50S ribosomal protein L13



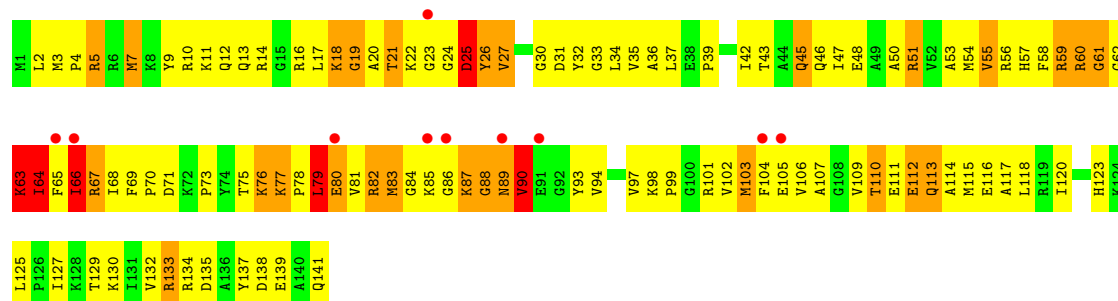
• Molecule 10: 50S ribosomal protein L14



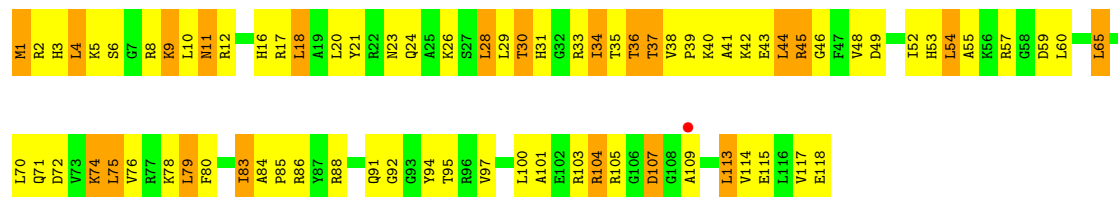




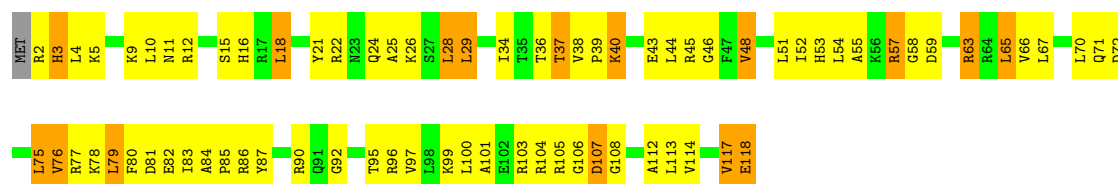
• Molecule 12: 50S ribosomal protein L16



• Molecule 13: 50S ribosomal protein L17

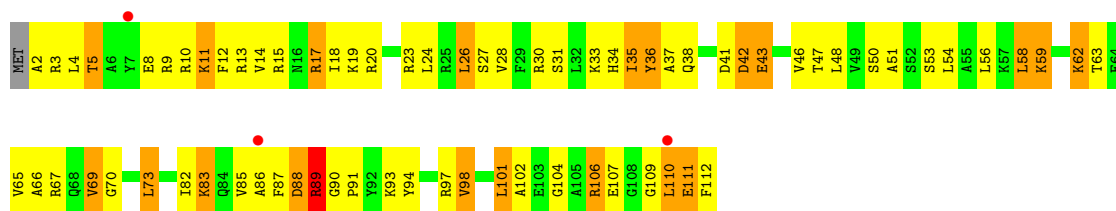


• Molecule 13: 50S ribosomal protein L17

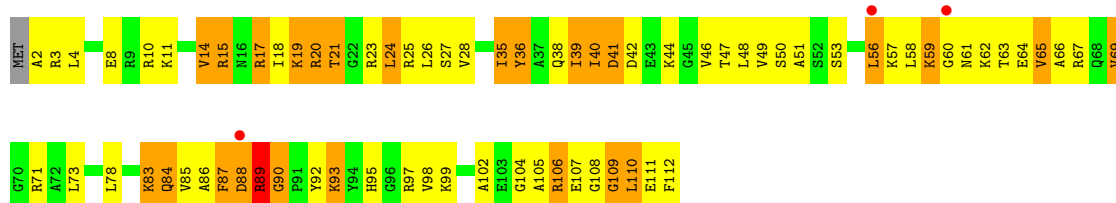


• Molecule 14: 50S ribosomal protein L18

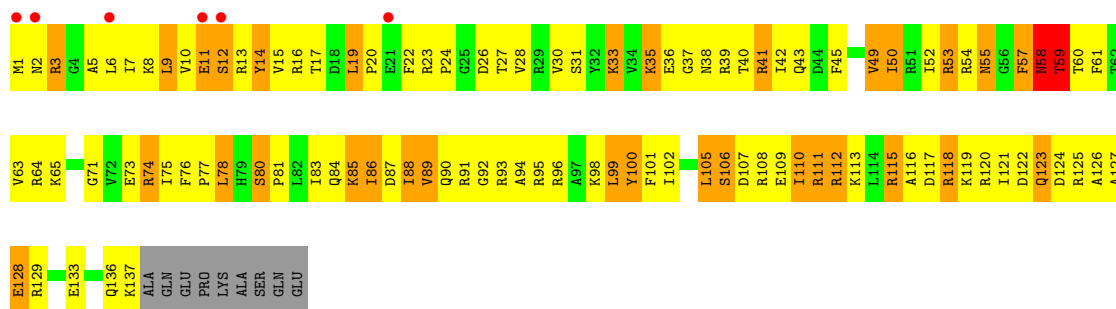
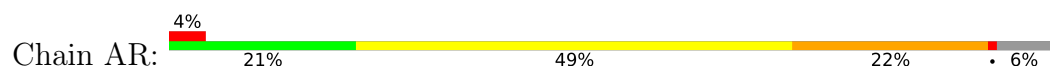




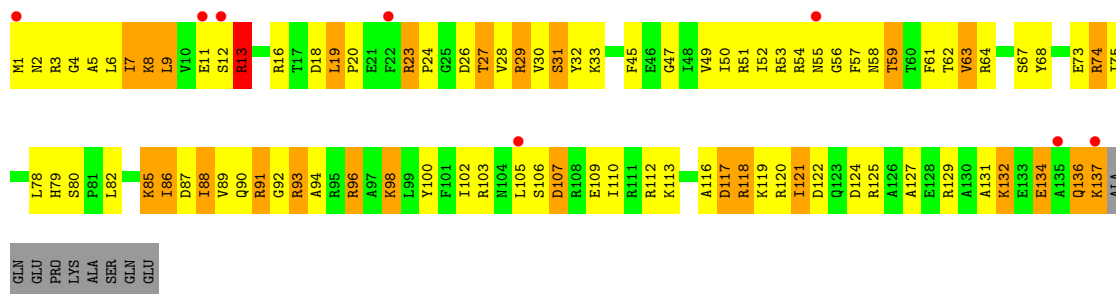
• Molecule 14: 50S ribosomal protein L18



• Molecule 15: 50S ribosomal protein L19

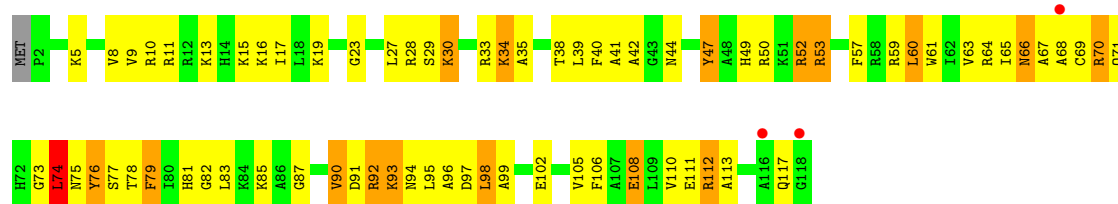


• Molecule 15: 50S ribosomal protein L19

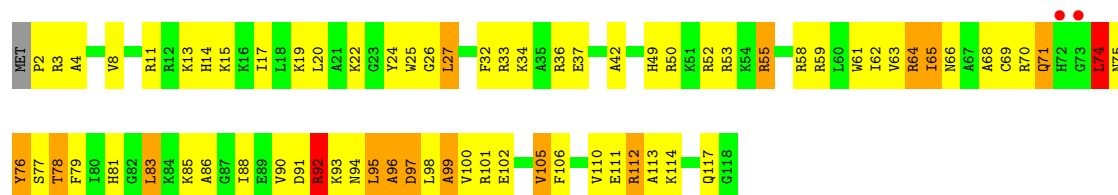


• Molecule 16: 50S ribosomal protein L20

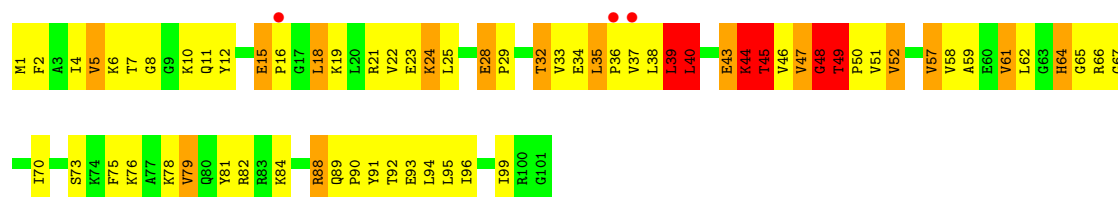




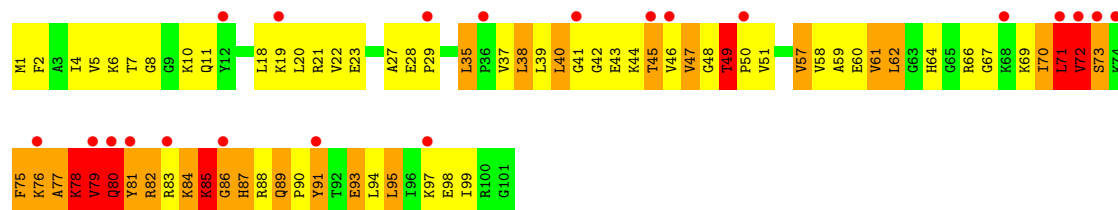
• Molecule 16: 50S ribosomal protein L20



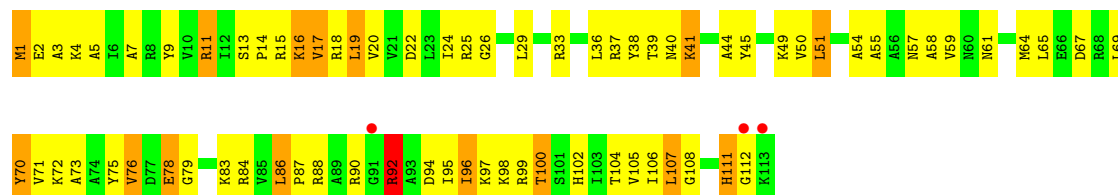
• Molecule 17: 50S ribosomal protein L21



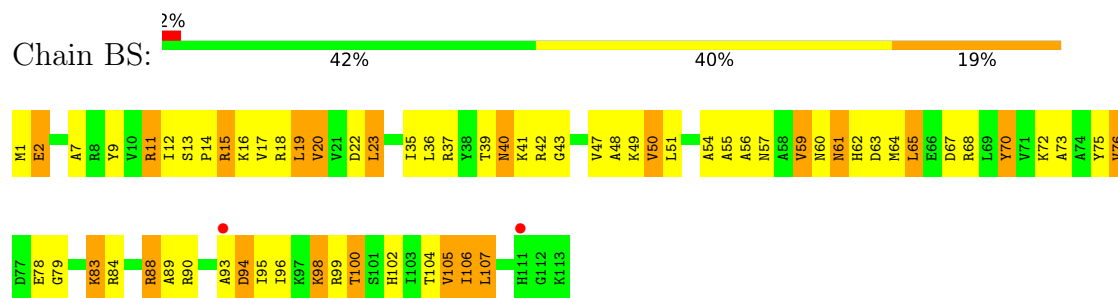
• Molecule 17: 50S ribosomal protein L21



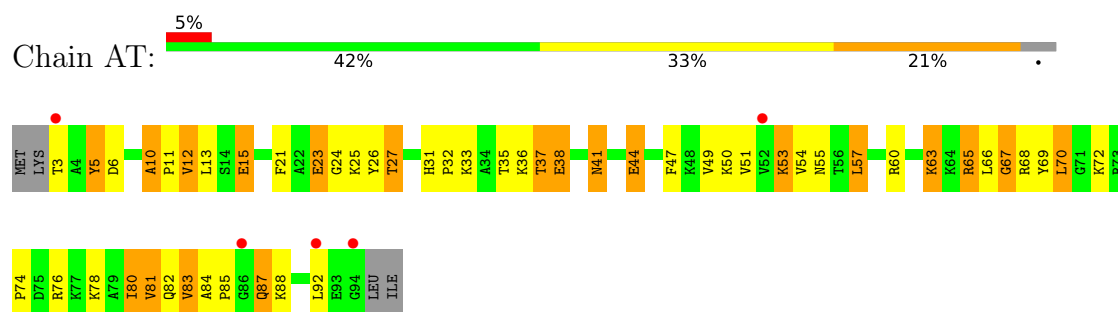
• Molecule 18: 50S ribosomal protein L22



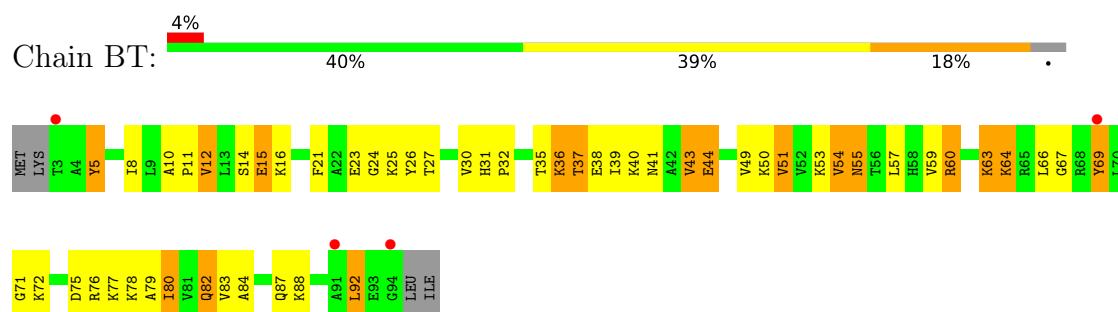
- Molecule 18: 50S ribosomal protein L22



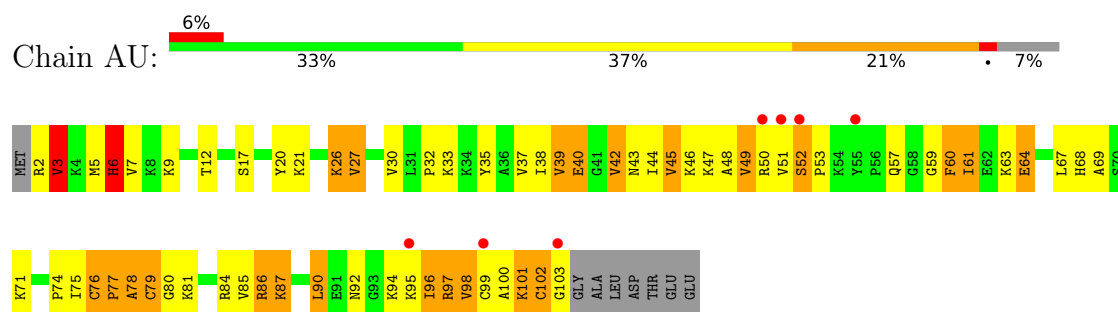
- Molecule 19: 50S ribosomal protein L23



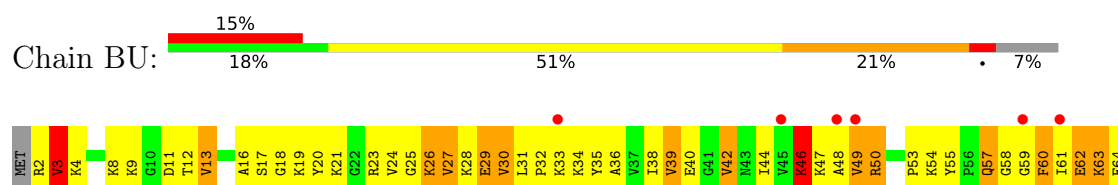
- Molecule 19: 50S ribosomal protein L23

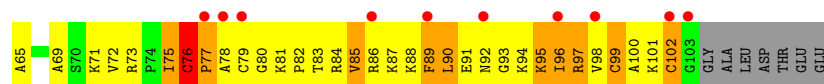


- Molecule 20: 50S ribosomal protein L24

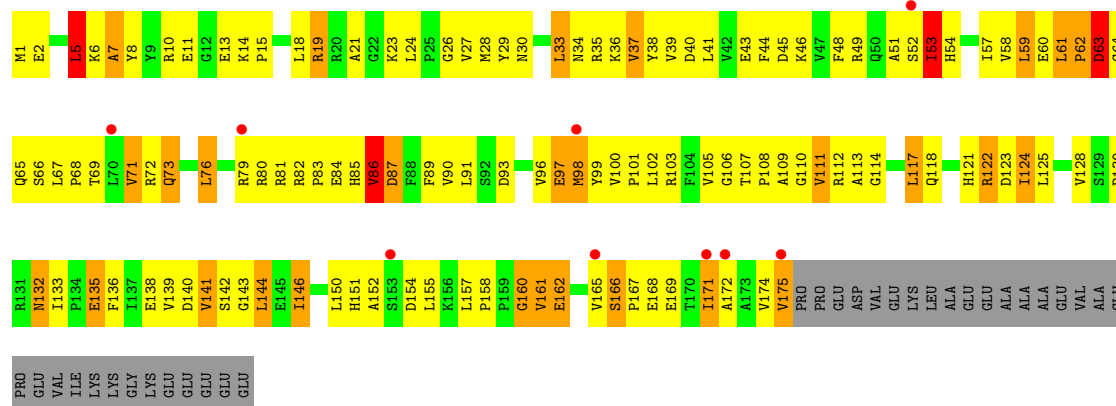


- Molecule 20: 50S ribosomal protein L24

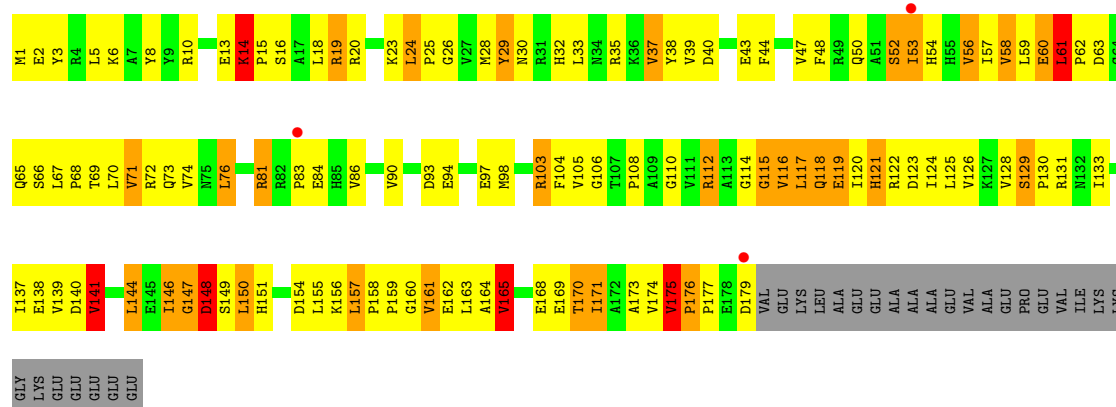




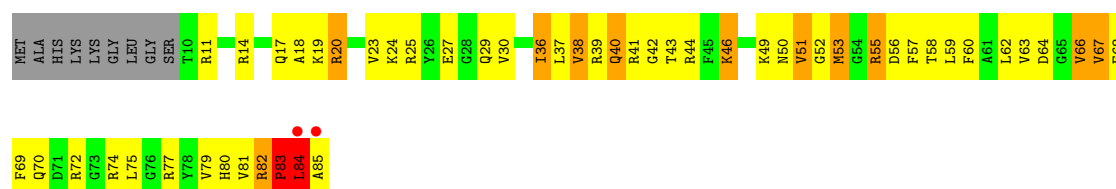
- Molecule 21: 50S ribosomal protein L25



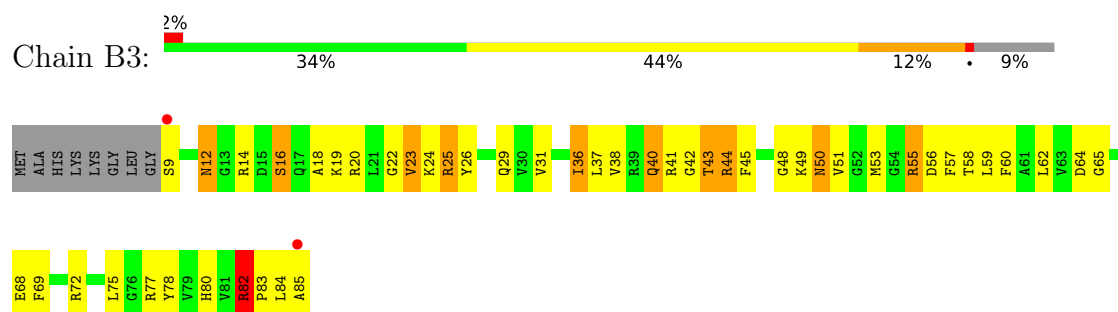
- Molecule 21: 50S ribosomal protein L25



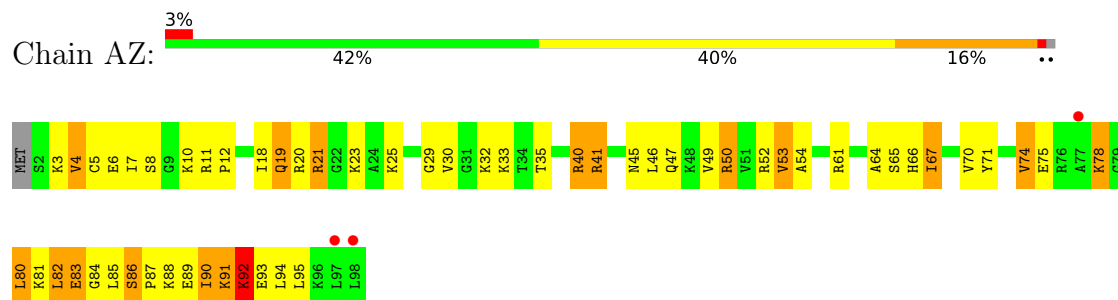
- Molecule 22: 50S ribosomal protein L27



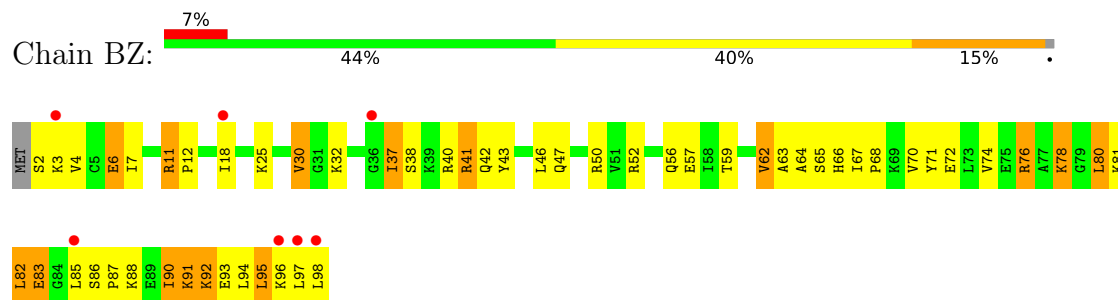
- Molecule 22: 50S ribosomal protein L27



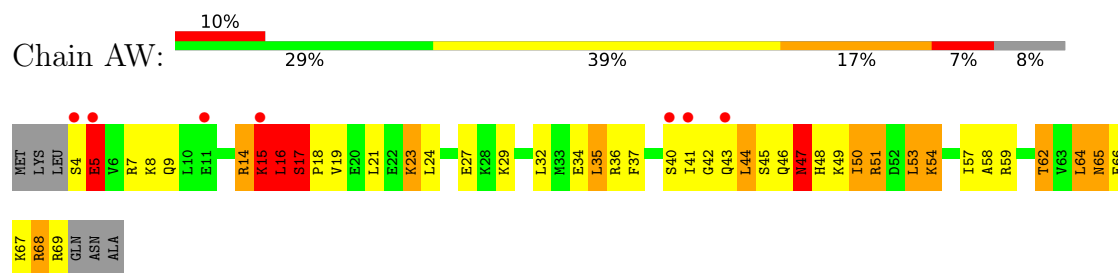
- Molecule 23: 50S ribosomal protein L28



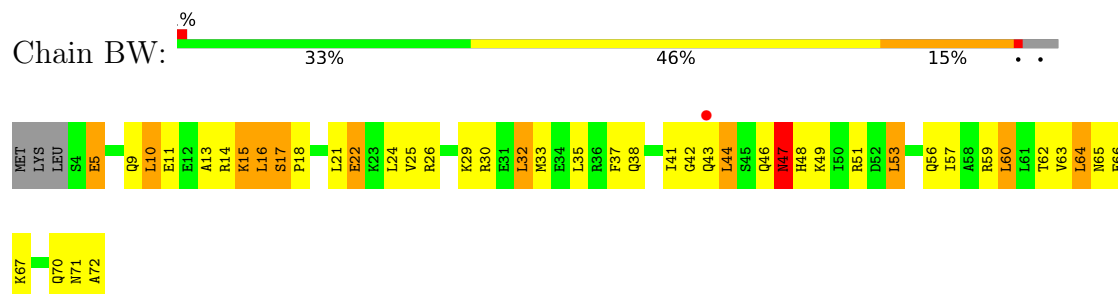
- Molecule 23: 50S ribosomal protein L28



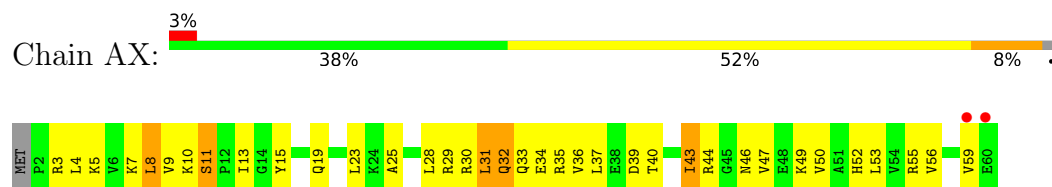
- Molecule 24: 50S ribosomal protein L29



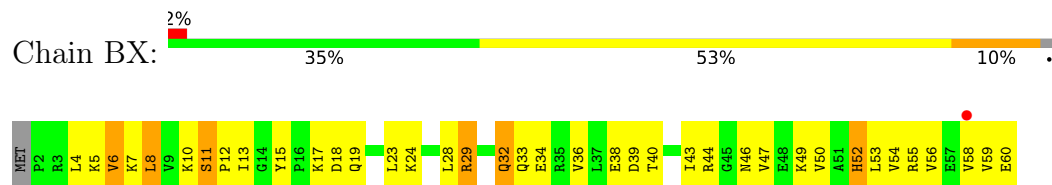
- Molecule 24: 50S ribosomal protein L29



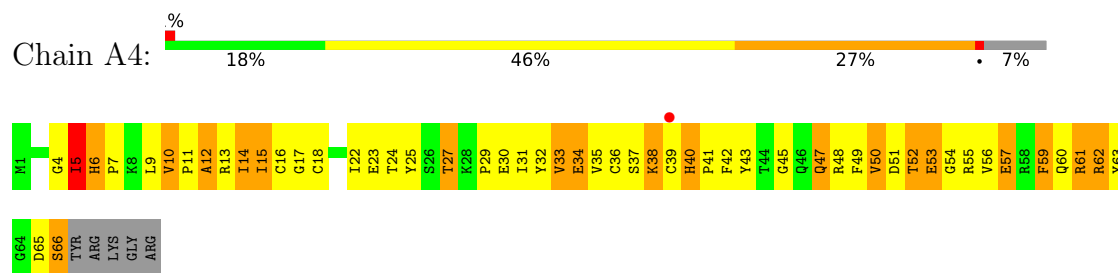
- Molecule 25: 50S ribosomal protein L30



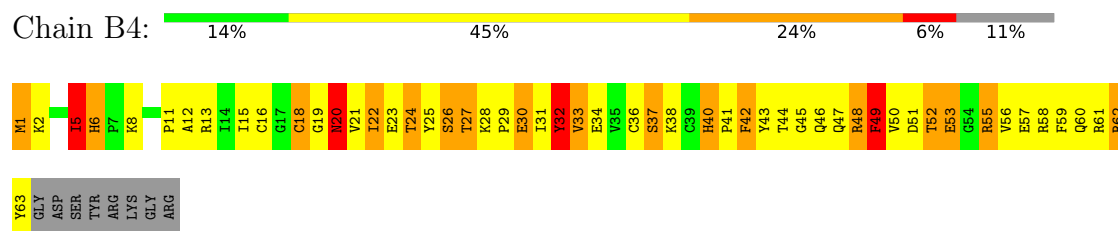
- Molecule 25: 50S ribosomal protein L30



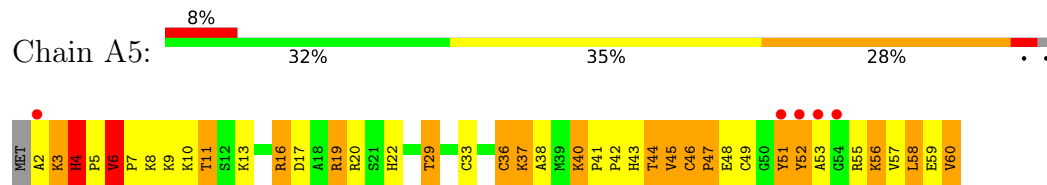
- Molecule 26: 50S ribosomal protein L31



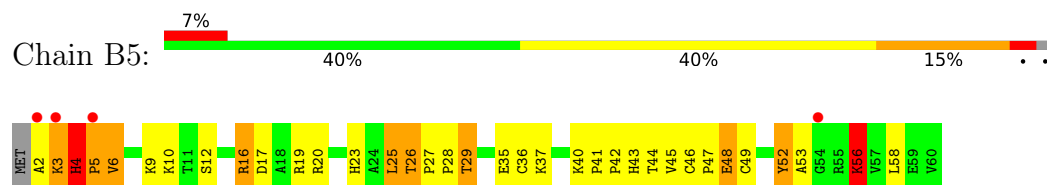
- Molecule 26: 50S ribosomal protein L31



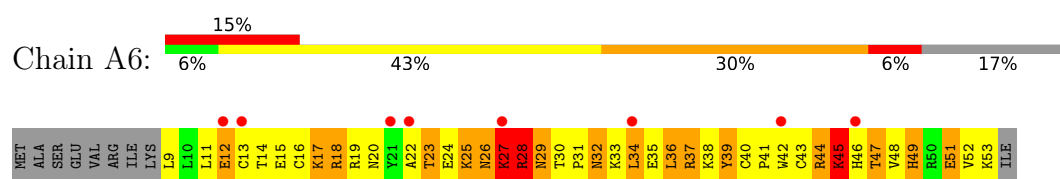
- Molecule 27: 50S ribosomal protein L32



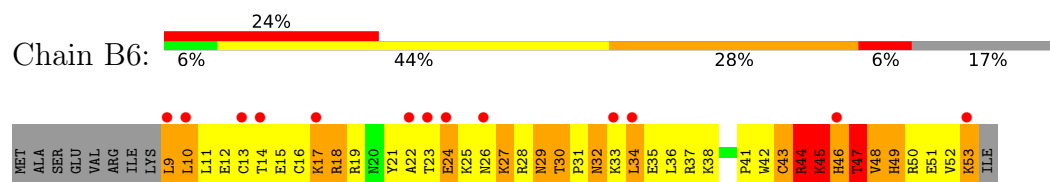
- Molecule 27: 50S ribosomal protein L32



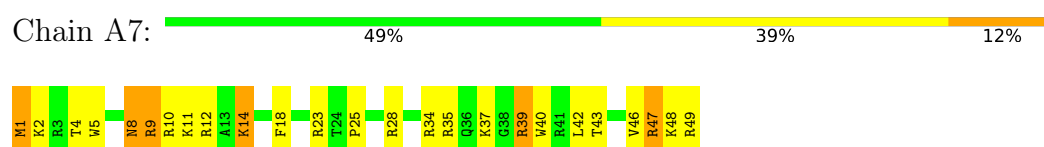
- Molecule 28: 50S ribosomal protein L33



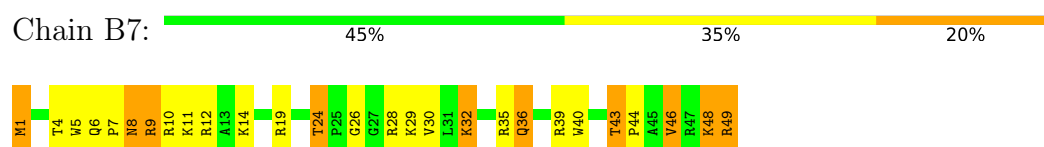
- Molecule 28: 50S ribosomal protein L33



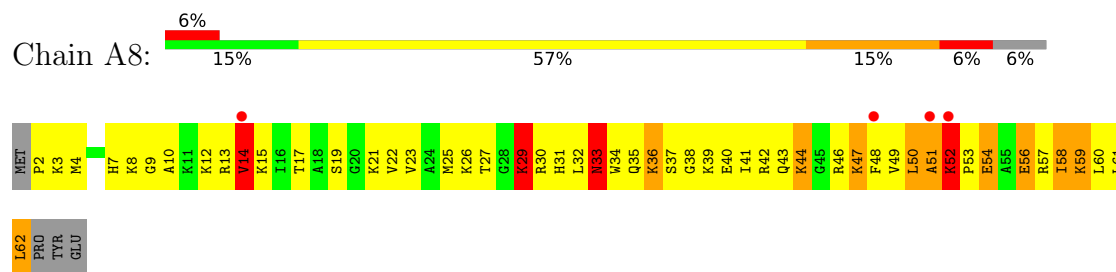
- Molecule 29: 50S ribosomal protein L34



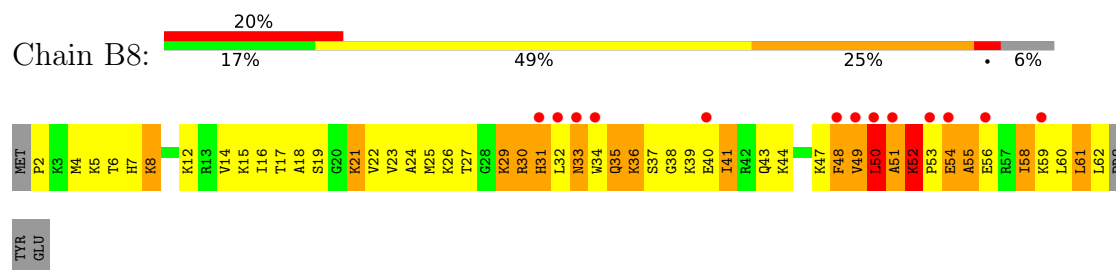
- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



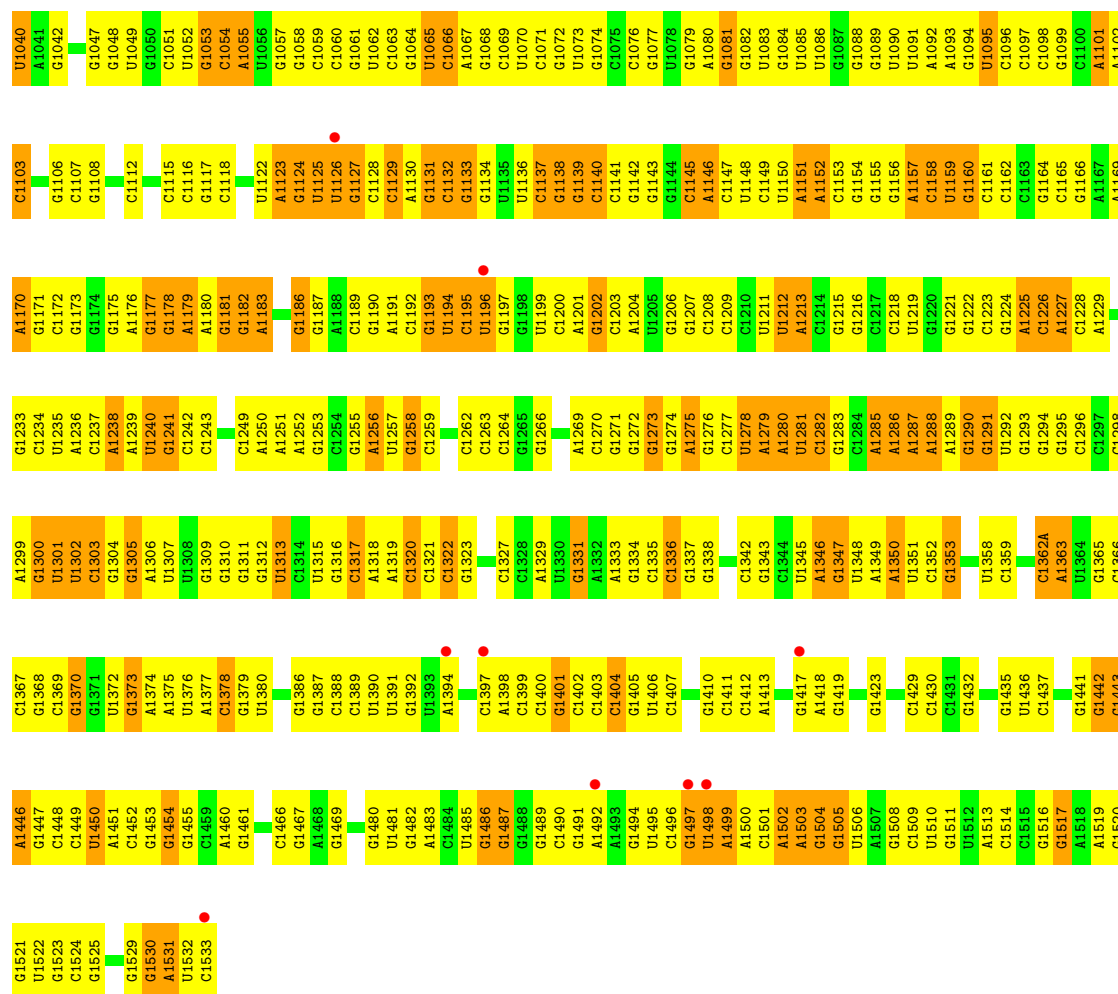
- Molecule 30: 50S ribosomal protein L35



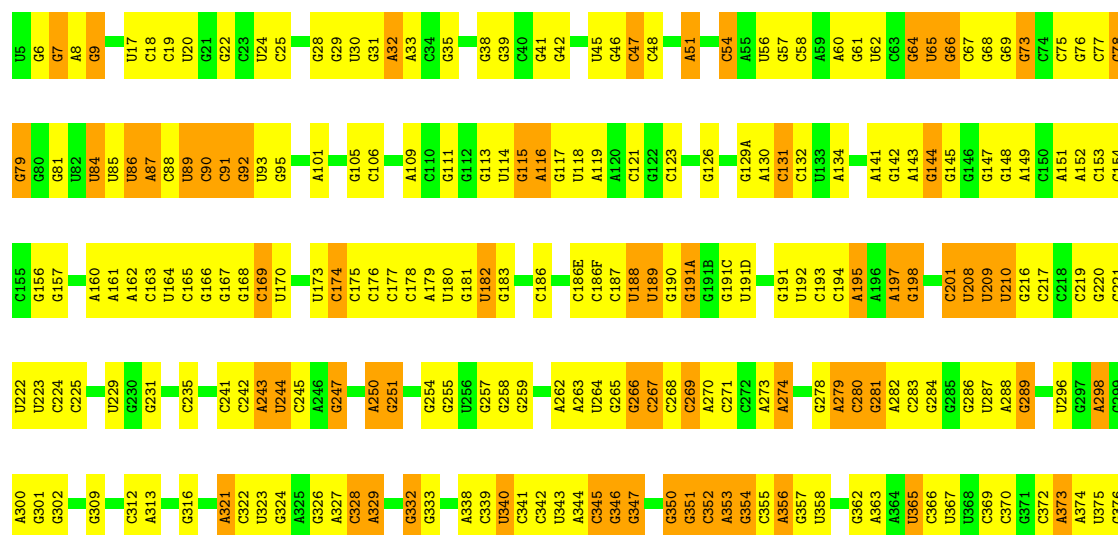
- Molecule 31: 16S ribosomal RNA



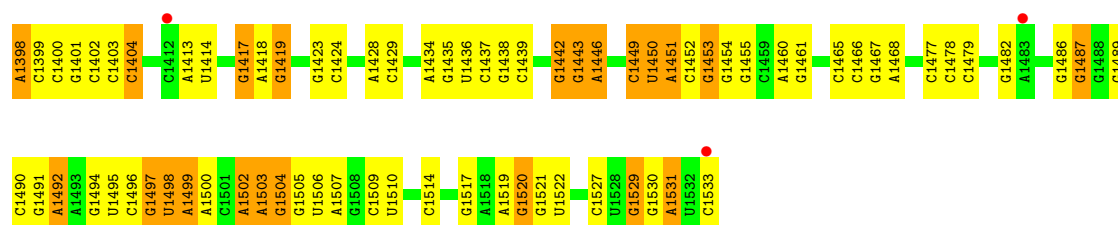
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U835	G836	G837	G838	U841	C842	U843	C848	G851	G852	G853	G854	G855	C856	C857	G858	A859	A860	A864	A865	U870	U871	A872	U873	U874	A875	A876	C877	C878	C879	C880	C881	C882	C883	U884	G885	U891	A892	C893	G894	G895	C896	A900	A901	G902	G903	C904	A908	A909	A913	A914	A915							
A918	A919	U920	U921	G922	A923	C924	G925	G926	G927	G928	G933	C934	A935	C936	A937	A938	A939	C940	G941	G942	A943	G944	A946	G947	C948	A949	U950	G951	U952	G953	U954	U955	U956	U957	A958	A959	U960	A965	G966	C967	A968	A969	G970	G971	C972	G973	A974	A975	G976	A977	A978	C979	C980	U981	U982	A983		
G761	G762	G763	G764	G765	G766	G767	A768	G769	G770	G771	G772	G773	G774	A777	G778	G779	G780	A781	A782	G783	A787	G788	G789	A790	G791	A792	G793	G794	C797	G798	U804	C805	C811	C812	A814	A815	A816	C817	G818	A819	U820	G821	C822	G823	C824	G825	C826	G827	A828	C832	A834							
U835	G836	G837	G838	U841	C842	U843	C848	G851	G852	G853	G854	G855	C856	C857	G858	A859	A860	A864	A865	U870	U871	A872	U873	U874	A875	A876	C877	C878	C879	C880	C881	C882	C883	U884	G885	U891	A892	C893	G894	G895	C896	A900	A901	G902	G903	C904	A908	A909	A913	A914	A915							
A918	A919	U920	U921	G922	A923	C924	G925	G926	G927	G928	G933	C934	A935	C936	A937	A938	A939	C940	G941	G942	A943	G944	A946	G947	C948	A949	U950	G951	U952	G953	U954	U955	U956	U957	A958	A959	U960	A965	G966	C967	A968	A969	G970	G971	C972	G973	A974	A975	G976	A977	A978	C979	C980	U981	U982	A983		
U5	G6	G7	A8	G9	A10		U14	G15	A16	U17	C18		G22	C23		G27		G31	A32	A33	C34	G35		G38	C39	C40	G41	G42		U45	G46	C47	G48	U49	A50	A51	G52	A53	C54	U56	G57	C58	A59	A60	G61	U62	G63	G64	U65	G66	C67	G68	G69	G73	C74	G75	G76	C77



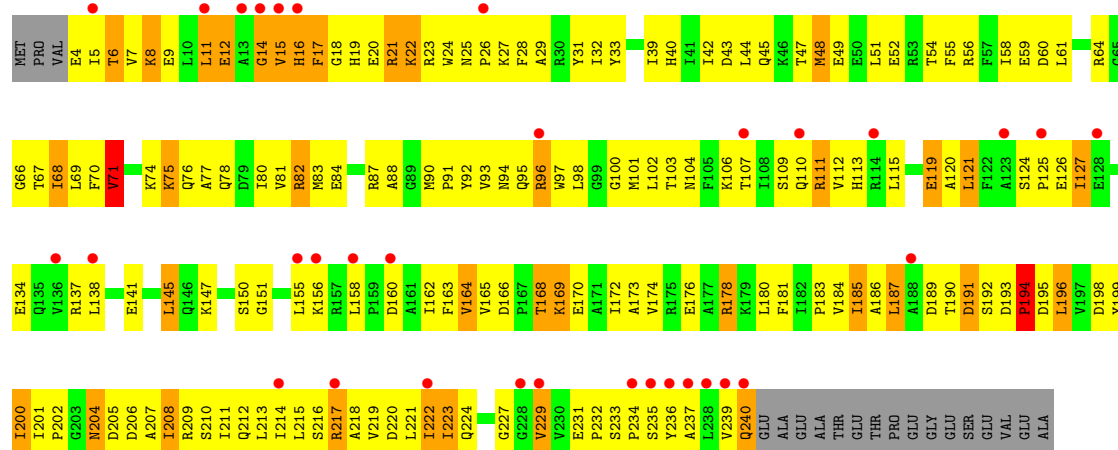
- Molecule 31: 16S ribosomal RNA



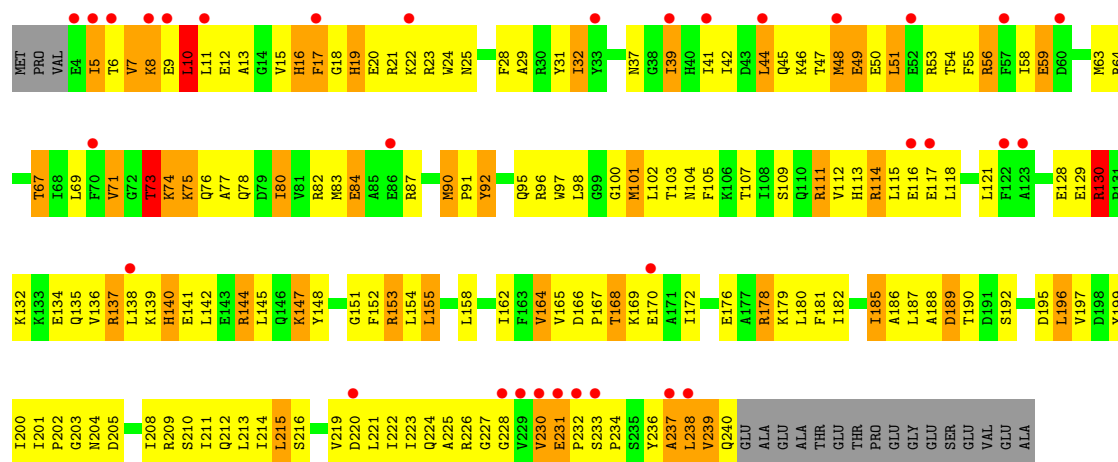
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C1335	C1208	G1143	G1082	G1022	G963	C897	A819	C748	G674	C601	U531	C450	
G1337	C1209	G1144	U1083	G1023	A965	C898	U820	C749			A532	A451	A382
G1338	C1210	G1145	G1084	G1024	G966	C899	C821	C750	U677		A533	A452	A383
A1339	U1211	A1146	U1085	U1025	C967	A901	C824	C751	C680	U605	A534	A453	G384
	G1212	G1147	U1086	G1026	G968	G902	C825	C752		G606	C535	C385	C386
	A1213	U1148	G1087	C1027	A969		C826	C753		A607	C536	C457	
C1342	C1214	C1149	G1088	C1028	A970	G906	U827	C754	U686	A608	A539	C458	
G1343	G1215	U1150	C1089	C1028A	C970	C971	U827	C755	A687	A609	G540	C459	
C1344	C1216	A1151	U1090	C1028B	A971	A907	C829	C756	C688		G541	C460	C390
U1345	C1217	A1152	U1091	G1029	C972	A908	C829	C757	C689		G542	C461	G391
A1346	C1218	C1153	U1092	G1030	C973	A909	C830	C758	G690	C612	C543	C462	
G1347	C1219	G1154	A1093	G1031	A974	C910	U831	C759	C691	C613	C544	C463	
U1348	G1220	G1155	G1094	A1032	A975		C832	C760	U692	A614	G544	C464	A397
A1349	G1221	G1156	U1095	G1032A	G976	A913	U833	C761	G693	C615	C545	C465	C398
C1350	G1222	A1157	C1096	C1032B	A977	A914		C762	A694	G616	G546	C466	
U1351	C1223	C1158		G1033	A978	A915	C836	C763	A695	C617	C547	C467	G402
C1352	G1224	U1159	G1099	G1034	C979		C837	C764		C618	C548	C468	G403
G1353	A1225	G1160	C1100	A1035	C980	U920	C838	C765	A702	U619	G550	C469	U404
C1354	C1226	C1161	A1101	G1036	U981	U921	U841	C766	G703	C620	U551	U480	U405
G1355	U1292	C1162	A1102	C1037	U982	G922	C842	C767	A704	A621	U552	U481	G406
C1356	C1228	C1163	C1103	C1038	A983	A923	U843	C768		A622	A553	A482	G407
A1357	A1229		G1104	C1039	C984	G924	C848	C769	C707	C623	C554	C483	A408
U1358	G1230		A1105	U1040	C985	C925	C849	C770	C708	C624	C555	C484	G409
C1359	G1231	G1171	G1106	A1041	A986	G926	U850	C771	G709	G625	C556	G485	G410
	U1282	G1172	C1107	G1042	C987	G927	C851	C772	G710	U626	G557	U486	A411
A1360	C1233	G1173	G1108	C1043	G988	G928	C852	C773	G711	G627	G558	A487	A412
G1361	G1234	G1174	C1109	A1044	C989	G929	U853	C774	A712	G628	A559	C488	G413
C1362	U1235	G1175	C1110	C1045	C990	C930	C854	C775	G713	G629	U560	C489	A414
C1362A	A1236	A1176	A1111	A1046	U991	C931	C855	C776	G714	C630	U561	C490	A415
A1363	C1237	G1177	G1112	G1047	U992	G932	C856	C777	A715	C631	C562	G416	
U1364	C1238	G1178	C1113	U1048	G993	G933	C857	C778	A716	A632	A563	C417	
C1365	A1239	A1179	C1114		A994	C934	C858	C779		C633	C564	U494	C418
G1366	U1240	G1180	C1115	C1051	C995	A935	A859	C780	C719	C634	A495	C419	C419
C1367	G1241	G1181	C1116	U1052	A996	G936	A860	A781	C720	G635	A496	U420	U420
G1368	C1242	G1182	G1117	G1053	U997	A937	C861	A782	G721	U636	U497	U421	U421
C1369	C1243	A1183	C1118	C1054	G998	G938	C862		A722		C569	C422	C422
G1370	G1244	G1184	C1119	A1055	C998A	G939	U863	A787	U723	C647	G570	G500	G423
G1371	A1245	G1185	G1120	U1056	U999	C940	U869	C788	G724	A648	U571	C501	G424
U1372		G1186	U1121	G1057	A1000	G941	C869	C789	G725	G649	A572	G502	G425
G1373		G1187	U1122	G1058	G1001	G942	U870	A790	G726	G650	A573	C503	G426
A1374		A1188	U1123	C1059	G1002	U943	U871	C791	G727	C651	A574	C504	U427
	A1248	G1189	G1124	G1060	G1003	G944	A872	C792	A728	U652	G575	G505	G428
U1315	A1251	G1189	U1125	G1061	A1004	G945	U873	C793	A729	A653	G576	U429	U429
C1316	A1252	A1190	U1126	U1062	A1005	A946	C874	A794	G730	G654	G577	A509	A430
A1318	G1253	A1191	G1127	C1063	A1006	A947			G731	A655		A510	C433
U1380	C1254	C1192	C1128	G1064	C1007	C948	C877	G799	C732	C656	U580	C511	C434
U1381	G1255	G1193	C1129	U1065	C1008	A949	C878	C800	A733	G657	C581	U512	U435
C1382	A1256	U1194	A1130	C1066	G1009	U950	C879	U801	G734		U582	C513	C436
	C1257	C1195	G1131	A1067	G1010	G951		A802	C735	G660	A583	C514	C437
	G1258	U1196	C1132	G1068	G1011	U952	C883	C803	C736	G661	G584		G438
G1386	C1259	G1197	G1133	C1069	U1012	G953	U884	U804	A737	G662	G587	U516	U439
G1387	C1260	G1198	G1134	U1070	G1013	G954	C885		C738	A663	C581	C518	A439
C1388	A1261	U1199	C1135	C1071	A1014	U955		C811	G739	G664	C590	C519	A440
	C1262	C1200	U1135	G1072	A1015	U956	C890	C812	U740	A665	A520	G521	C442
	C1263	A1201	U1136	U1073	A1016	U957	U891	U813	G741	G666	U591	G521	C443
G1392		G1202	C1137		G1017	A958	A892	A814	G742	G667	G592	G522	C444
U1393	C1267	C1203	G1138		C1018	A959	C893	A815		G668	G593	G523	C445
A1394	A1268	A1204	G1139	G1077	C1019	U960	C894	A816	C745	U669		C528	G446
C1395	C1269	U1205	C1140	A1080	C1019	U961	C895	C817	A746		C596	G529	A448
A1396					U1020								
C1397	C1270	G1206	C1141										



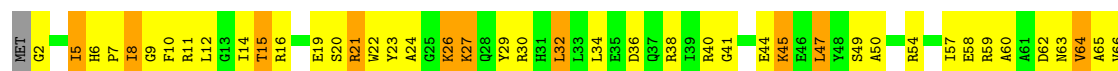
● Molecule 32: 30S RIBOSOMAL PROTEIN S2

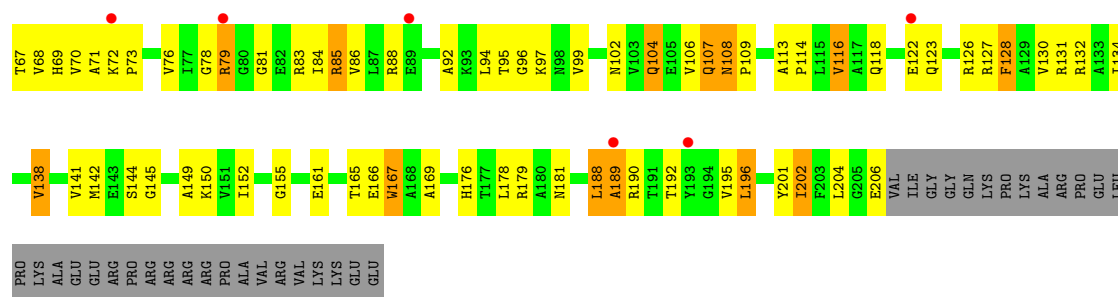


• Molecule 32: 30S RIBOSOMAL PROTEIN S2

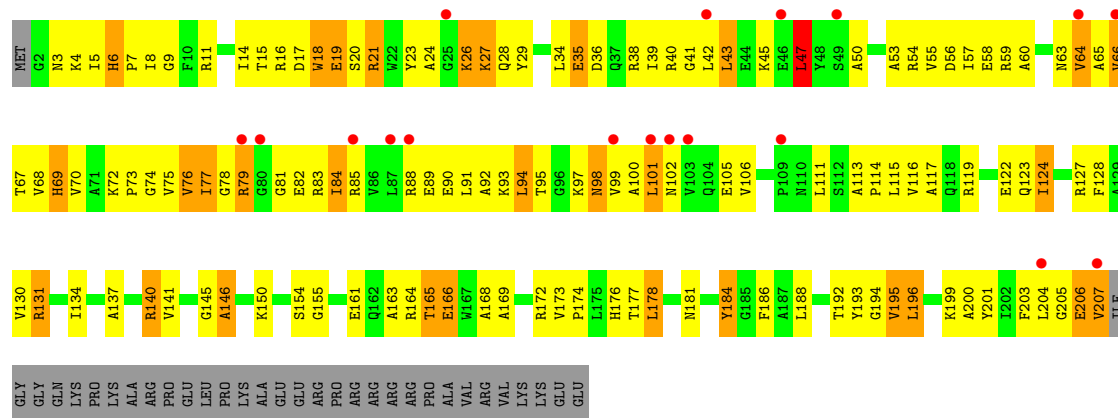


- Molecule 33: 30S RIBOSOMAL PROTEIN S3

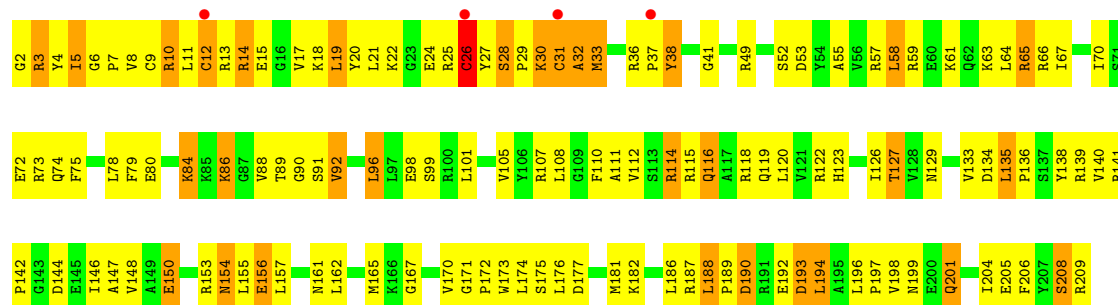




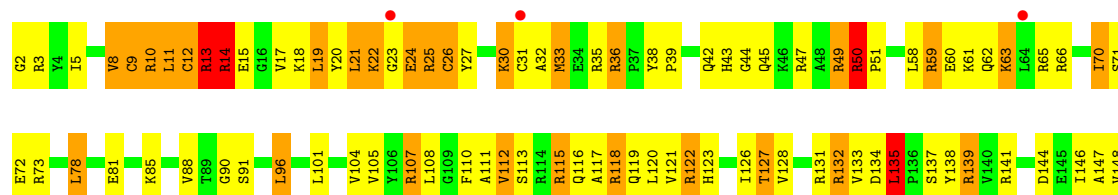
• Molecule 33: 30S RIBOSOMAL PROTEIN S3



• Molecule 34: 30S RIBOSOMAL PROTEIN S4

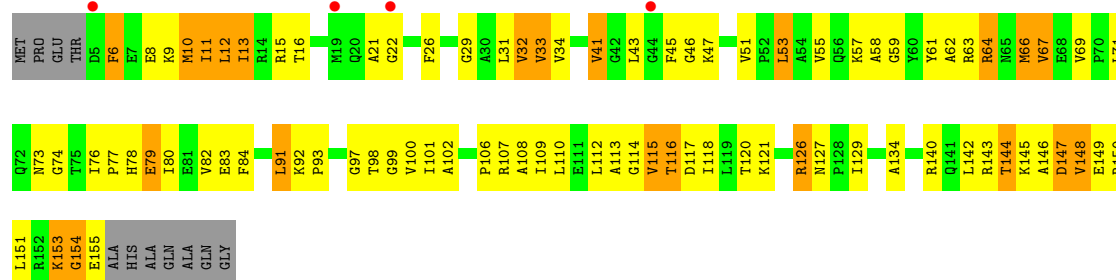


• Molecule 34: 30S RIBOSOMAL PROTEIN S4

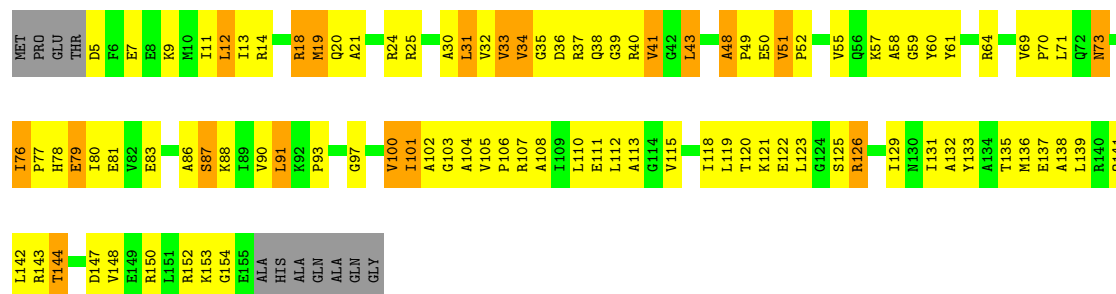




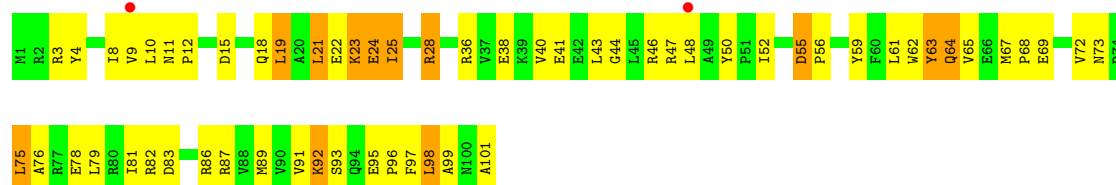
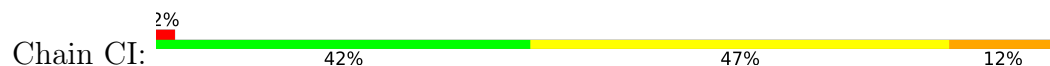
• Molecule 35: 30S RIBOSOMAL PROTEIN S5



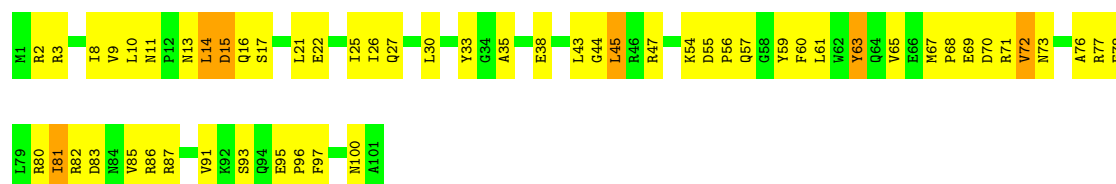
• Molecule 35: 30S RIBOSOMAL PROTEIN S5



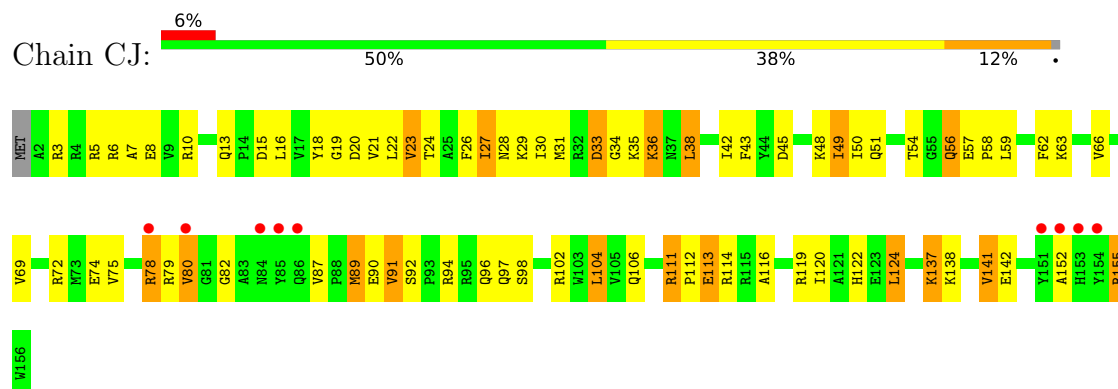
• Molecule 36: 30S RIBOSOMAL PROTEIN S6



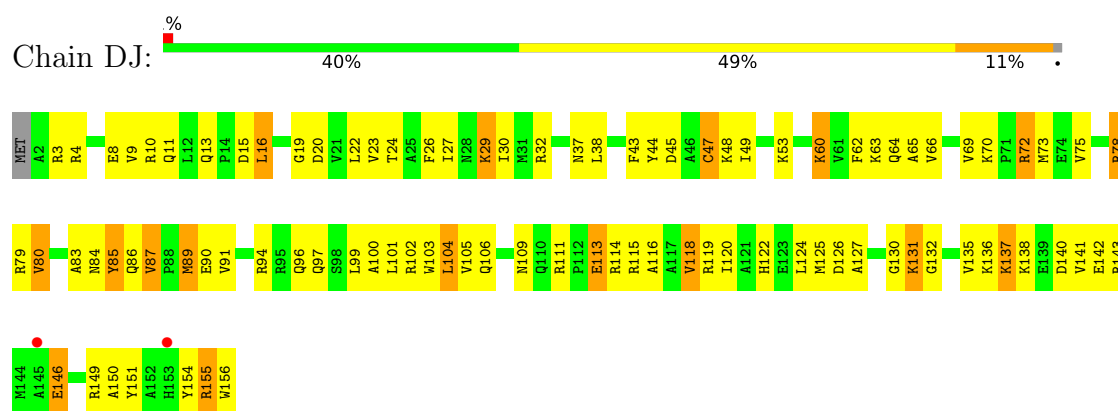
• Molecule 36: 30S RIBOSOMAL PROTEIN S6



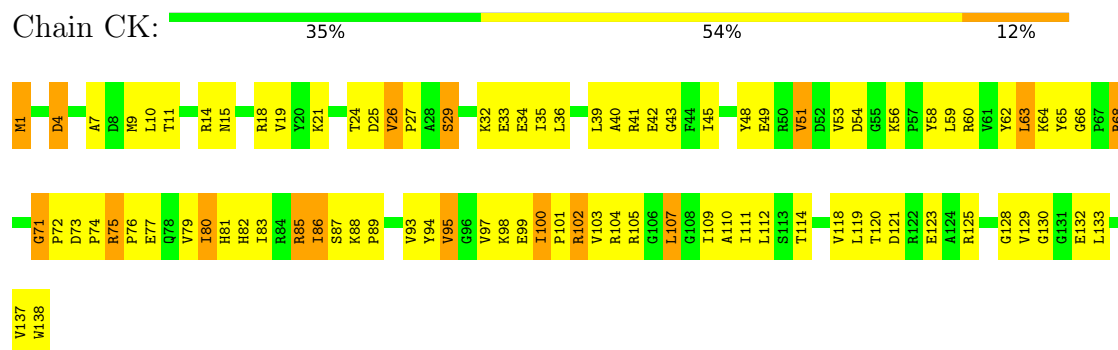
- Molecule 37: 30S RIBOSOMAL PROTEIN S7



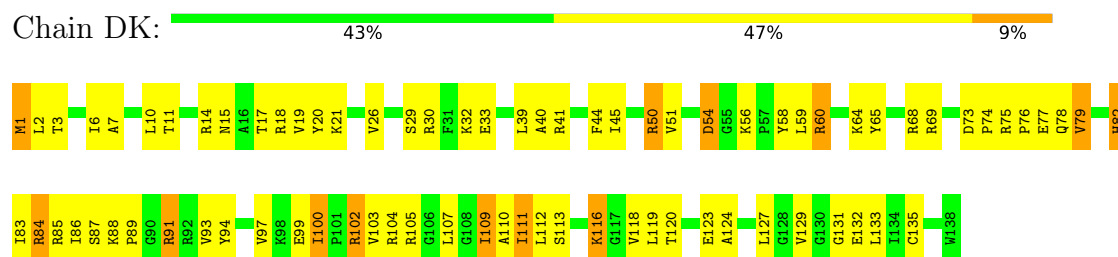
- Molecule 37: 30S RIBOSOMAL PROTEIN S7



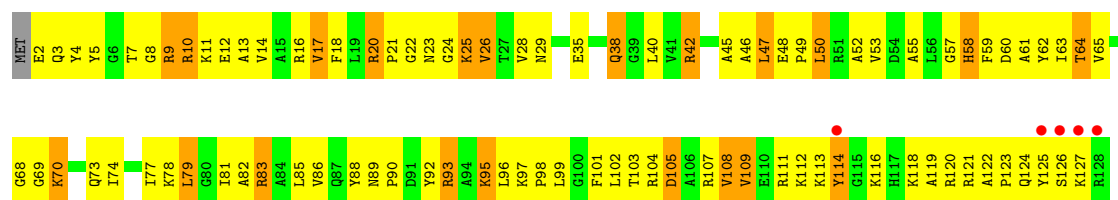
- Molecule 38: 30S RIBOSOMAL PROTEIN S8



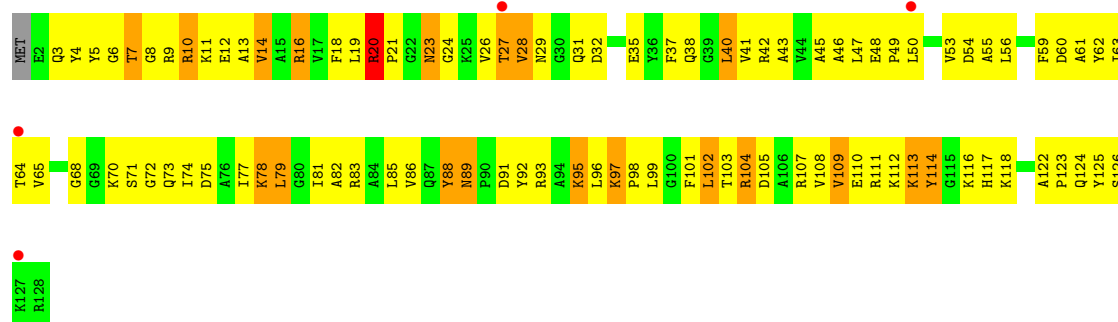
- Molecule 38: 30S RIBOSOMAL PROTEIN S8



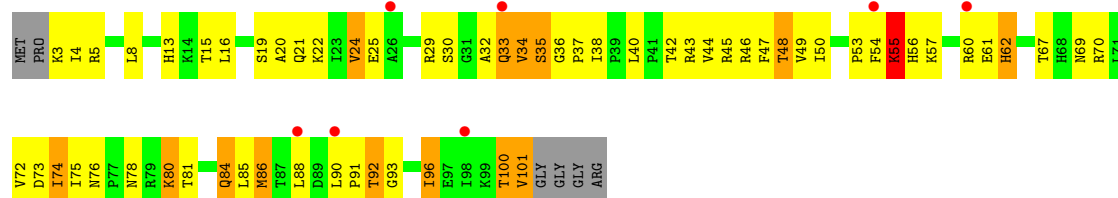
- Molecule 39: 30S RIBOSOMAL PROTEIN S9



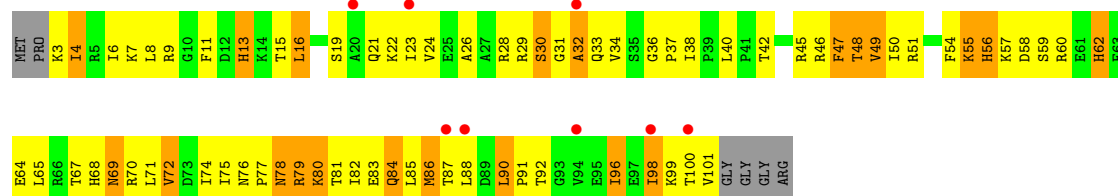
• Molecule 39: 30S RIBOSOMAL PROTEIN S9



• Molecule 40: 30S RIBOSOMAL PROTEIN S10

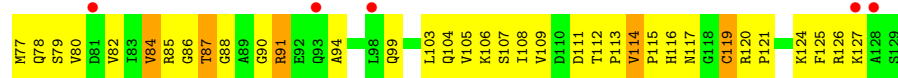
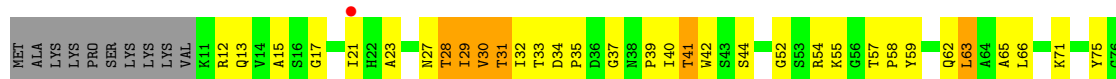


• Molecule 40: 30S RIBOSOMAL PROTEIN S10

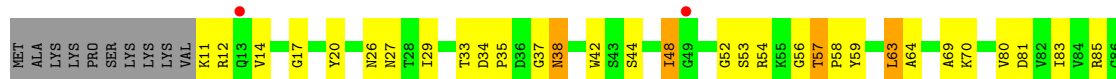


• Molecule 41: 30S RIBOSOMAL PROTEIN S11





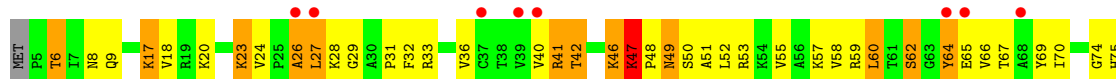
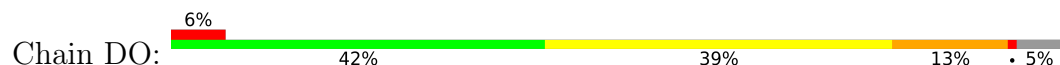
• Molecule 41: 30S RIBOSOMAL PROTEIN S11



• Molecule 42: 30S RIBOSOMAL PROTEIN S12



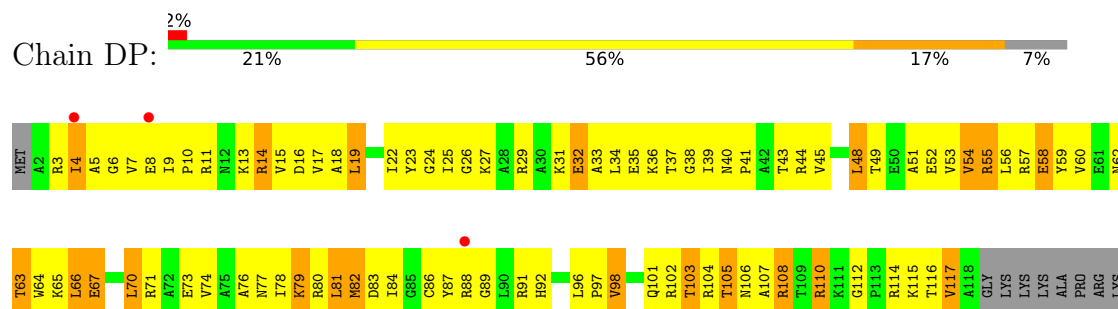
• Molecule 42: 30S RIBOSOMAL PROTEIN S12



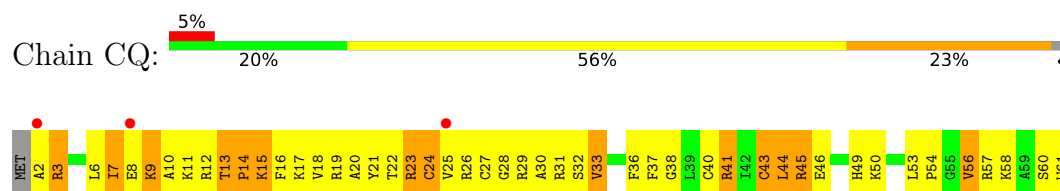
• Molecule 43: 30S RIBOSOMAL PROTEIN S13



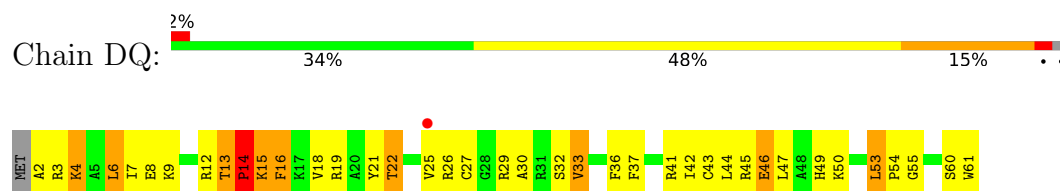
● Molecule 43: 30S RIBOSOMAL PROTEIN S13



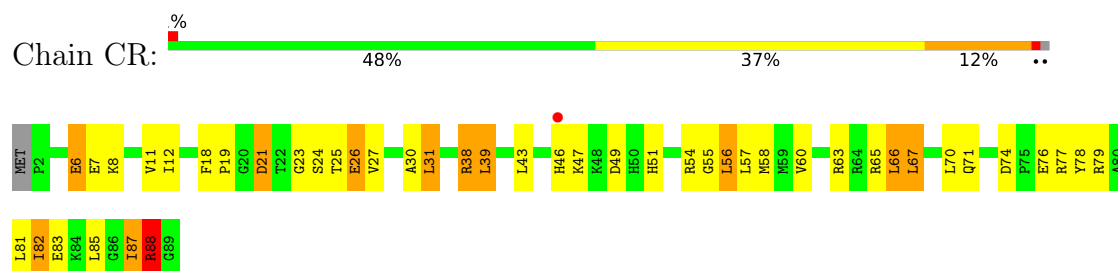
● Molecule 44: 30S RIBOSOMAL PROTEIN S14



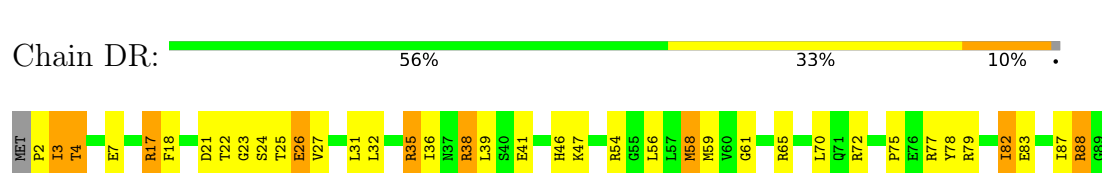
● Molecule 44: 30S RIBOSOMAL PROTEIN S14



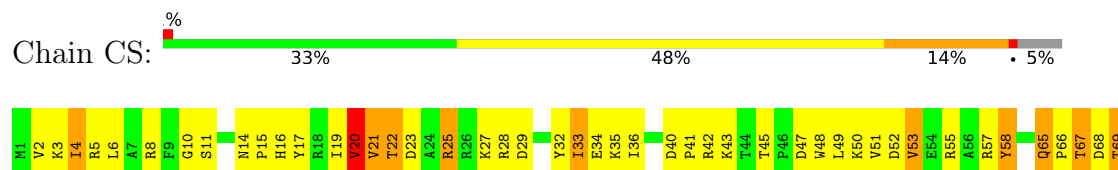
● Molecule 45: 30S RIBOSOMAL PROTEIN S15



● Molecule 45: 30S RIBOSOMAL PROTEIN S15

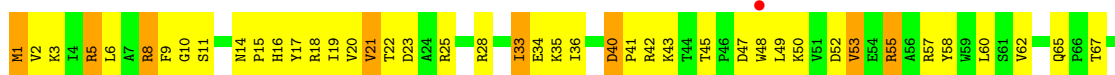


● Molecule 46: 30S RIBOSOMAL PROTEIN S16





• Molecule 46: 30S RIBOSOMAL PROTEIN S16



• Molecule 47: 30S RIBOSOMAL PROTEIN S17



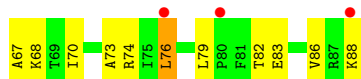
• Molecule 47: 30S RIBOSOMAL PROTEIN S17

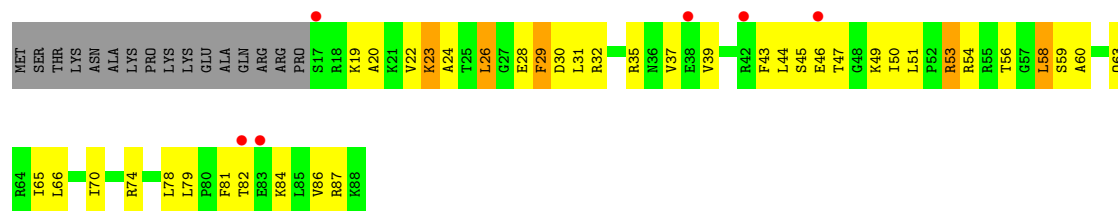


• Molecule 48: 30S RIBOSOMAL PROTEIN S18

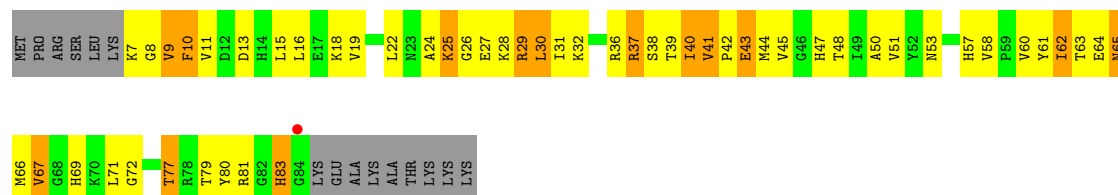


• Molecule 48: 30S RIBOSOMAL PROTEIN S18

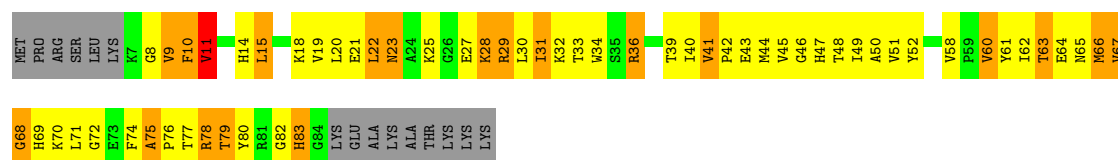
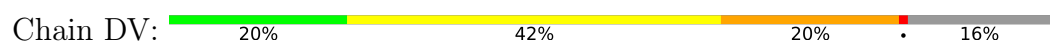




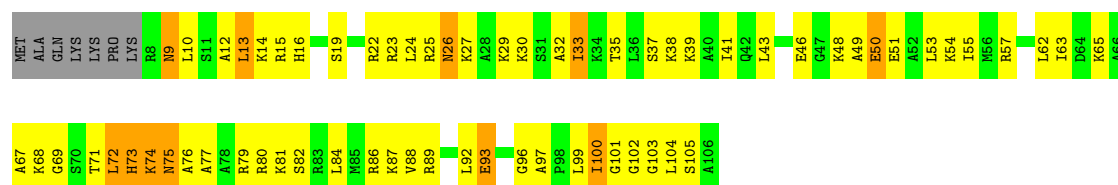
● Molecule 49: 30S RIBOSOMAL PROTEIN S19



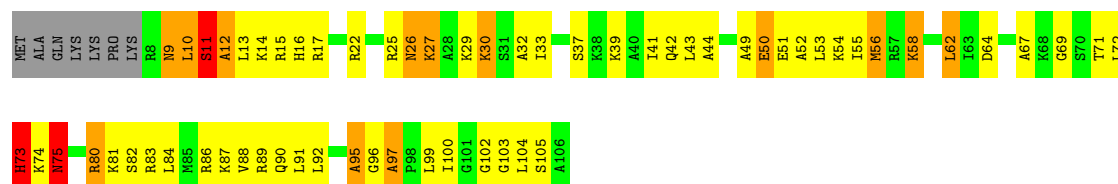
● Molecule 49: 30S RIBOSOMAL PROTEIN S19



● Molecule 50: 30S RIBOSOMAL PROTEIN S20



● Molecule 50: 30S RIBOSOMAL PROTEIN S20



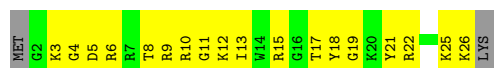
● Molecule 51: 30S RIBOSOMAL PROTEIN THX





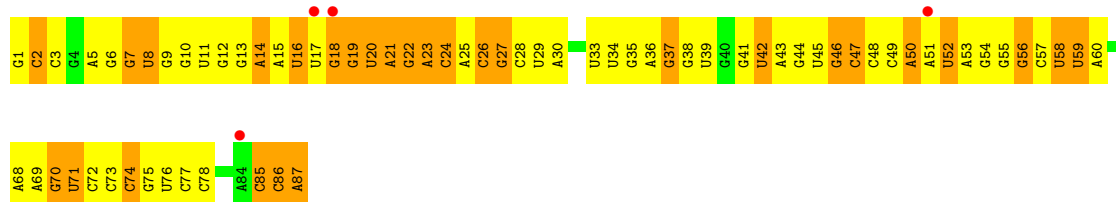
- Molecule 51: 30S RIBOSOMAL PROTEIN THX

Chain DX: 26% 67% 7%



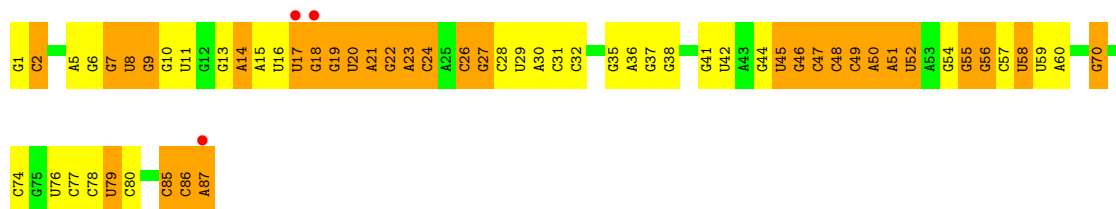
- Molecule 52: TRNA-LEU

Chain CB: 5% 20% 47% 33%



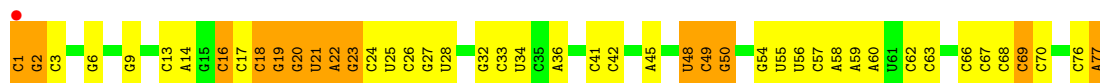
- Molecule 52: TRNA-LEU

Chain DB: 3% 31% 33% 36%



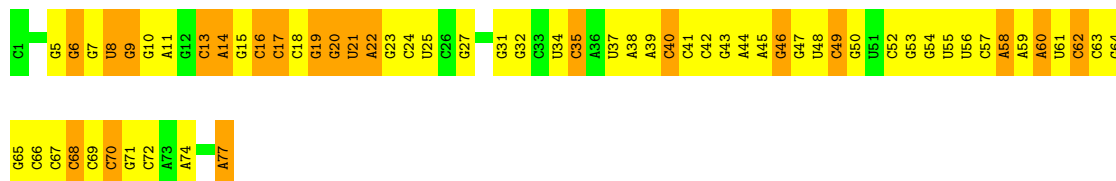
- Molecule 53: TRNA-FMET

Chain CC: 40% 42% 18%

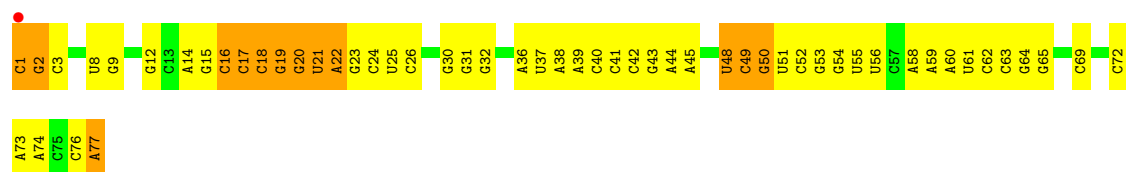


- Molecule 53: TRNA-FMET

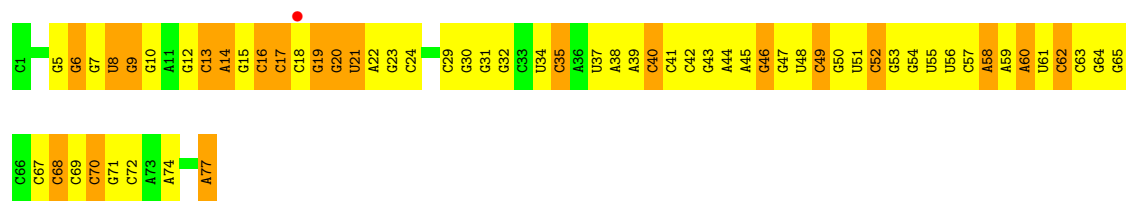
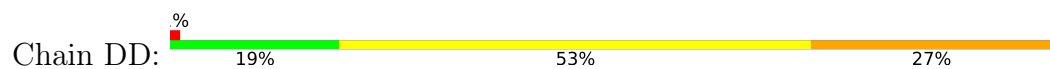
Chain CD: 19% 53% 27%



- Molecule 53: TRNA-FMET



• Molecule 53: TRNA-FMET



• Molecule 54: MRNA



• Molecule 54: MRNA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.43Å 448.15Å 619.40Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	189.73 – 3.30 189.73 – 3.30	Depositor EDS
% Data completeness (in resolution range)	100.0 (189.73-3.30) 95.4 (189.73-3.30)	Depositor EDS
R_{merge}	0.28	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.35 (at 3.33Å)	Xtriage
Refinement program	PHENIX 1.7.1 _743	Depositor
R, R_{free}	0.199 , 0.237 0.197 , 0.237	Depositor DCC
R_{free} test set	2000 reflections (0.23%)	wwPDB-VP
Wilson B-factor (Å ²)	102.7	Xtriage
Anisotropy	0.186	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 76.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	299682	wwPDB-VP
Average B, all atoms (Å ²)	114.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.60% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AA	0.35	0/70233	0.45	0/109643
1	BA	0.32	0/70167	0.43	2/109541 (0.0%)
2	AB	0.31	0/2928	0.43	0/4568
2	BB	0.27	0/2928	0.41	0/4568
3	AD	0.68	0/2165	1.21	17/2919 (0.6%)
3	BD	0.58	0/2165	1.10	6/2919 (0.2%)
4	AE	0.57	0/1601	1.19	15/2160 (0.7%)
4	BE	0.54	0/1601	1.20	14/2160 (0.6%)
5	AF	0.58	0/1620	1.13	13/2194 (0.6%)
5	BF	0.47	0/1662	1.07	10/2249 (0.4%)
6	AG	0.44	0/1499	1.00	8/2016 (0.4%)
6	BG	0.38	0/1499	0.92	7/2016 (0.3%)
7	AH	0.56	0/1332	1.26	22/1802 (1.2%)
7	BH	0.44	0/1332	1.14	10/1802 (0.6%)
8	AK	0.52	0/1151	1.10	6/1558 (0.4%)
8	BK	0.48	0/1151	1.00	5/1558 (0.3%)
9	AM	0.58	0/1131	1.13	12/1525 (0.8%)
9	BM	0.43	0/1131	0.96	6/1525 (0.4%)
10	AN	0.56	0/943	1.07	7/1269 (0.6%)
10	BN	0.51	0/943	0.93	1/1269 (0.1%)
11	AO	0.50	0/1162	1.14	10/1544 (0.6%)
11	BO	0.42	0/1162	0.94	2/1544 (0.1%)
12	AP	0.51	0/1143	1.00	9/1527 (0.6%)
12	BP	0.41	0/1143	0.88	2/1527 (0.1%)
13	A0	0.57	0/982	1.00	4/1312 (0.3%)
13	B0	0.55	0/974	1.03	1/1302 (0.1%)
14	AQ	0.47	0/892	0.95	1/1187 (0.1%)
14	BQ	0.45	0/892	0.91	2/1187 (0.2%)
15	AR	0.56	0/1155	1.09	8/1542 (0.5%)
15	BR	0.52	0/1155	1.01	5/1542 (0.3%)
16	A1	0.54	0/982	0.98	4/1306 (0.3%)
16	B1	0.50	0/982	0.96	4/1306 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	A2	0.56	0/790	1.17	9/1057 (0.9%)
17	B2	0.43	0/790	0.96	2/1057 (0.2%)
18	AS	0.58	0/911	0.99	1/1220 (0.1%)
18	BS	0.58	0/911	0.97	1/1220 (0.1%)
19	AT	0.58	0/739	1.06	4/993 (0.4%)
19	BT	0.56	0/739	1.01	1/993 (0.1%)
20	AU	0.63	0/798	1.09	4/1064 (0.4%)
20	BU	0.60	0/798	1.07	3/1064 (0.3%)
21	AV	0.44	0/1427	1.06	6/1935 (0.3%)
21	BV	0.40	0/1460	1.01	11/1982 (0.6%)
22	A3	0.54	0/615	1.07	2/819 (0.2%)
22	B3	0.51	0/621	1.07	4/827 (0.5%)
23	AZ	0.58	0/770	1.10	1/1022 (0.1%)
23	BZ	0.56	0/770	1.07	2/1022 (0.2%)
24	AW	0.59	0/560	1.22	5/741 (0.7%)
24	BW	0.47	0/583	1.02	3/771 (0.4%)
25	AX	0.47	0/474	1.06	2/635 (0.3%)
25	BX	0.45	0/474	0.93	2/635 (0.3%)
26	A4	0.48	0/545	1.07	5/733 (0.7%)
26	B4	0.47	0/527	1.13	7/709 (1.0%)
27	A5	0.56	0/473	1.08	4/639 (0.6%)
27	B5	0.49	0/473	1.02	0/639
28	A6	0.55	0/396	1.16	6/529 (1.1%)
28	B6	0.51	0/396	0.92	0/529
29	A7	0.62	0/438	1.01	2/575 (0.3%)
29	B7	0.53	0/438	0.94	2/575 (0.3%)
30	A8	0.69	0/494	1.39	11/649 (1.7%)
30	B8	0.52	0/494	0.88	0/649
31	CA	0.28	0/36234	0.41	0/56554
31	DA	0.27	0/36237	0.40	0/56558
32	CE	0.41	0/1959	0.90	2/2642 (0.1%)
32	DE	0.38	0/1959	0.95	6/2642 (0.2%)
33	CF	0.43	0/1629	0.83	2/2195 (0.1%)
33	DF	0.43	0/1636	0.89	3/2205 (0.1%)
34	CG	0.49	0/1733	0.98	8/2318 (0.3%)
34	DG	0.45	0/1733	1.06	12/2318 (0.5%)
35	CH	0.50	0/1171	0.93	4/1576 (0.3%)
35	DH	0.44	0/1171	0.95	5/1576 (0.3%)
36	CI	0.50	0/856	0.90	0/1154
36	DI	0.46	0/856	0.83	0/1154
37	CJ	0.41	0/1276	0.85	2/1709 (0.1%)
37	DJ	0.40	0/1276	0.83	1/1709 (0.1%)
38	CK	0.45	0/1136	1.02	9/1527 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DK	0.41	0/1136	0.89	4/1527 (0.3%)
39	CL	0.40	0/1029	0.84	1/1379 (0.1%)
39	DL	0.37	0/1029	0.88	2/1379 (0.1%)
40	CM	0.43	0/814	0.93	1/1095 (0.1%)
40	DM	0.41	0/814	0.98	3/1095 (0.3%)
41	CN	0.50	0/900	0.94	0/1213
41	DN	0.48	0/900	0.98	4/1213 (0.3%)
42	CO	0.59	0/991	1.17	9/1327 (0.7%)
42	DO	0.53	0/991	1.00	2/1327 (0.2%)
43	CP	0.42	0/938	0.93	2/1258 (0.2%)
43	DP	0.40	0/943	0.85	4/1265 (0.3%)
44	CQ	0.51	0/501	0.98	1/664 (0.2%)
44	DQ	0.38	0/501	0.98	4/664 (0.6%)
45	CR	0.50	0/745	0.94	1/992 (0.1%)
45	DR	0.46	0/745	0.80	1/992 (0.1%)
46	CS	0.40	0/721	0.92	4/970 (0.4%)
46	DS	0.47	0/721	0.96	3/970 (0.3%)
47	CT	0.41	0/847	0.86	1/1131 (0.1%)
47	DT	0.41	0/847	0.87	0/1131
48	CU	0.47	0/596	0.92	1/790 (0.1%)
48	DU	0.45	0/596	0.89	1/790 (0.1%)
49	CV	0.45	0/638	0.92	2/860 (0.2%)
49	DV	0.39	0/638	1.09	4/860 (0.5%)
50	CW	0.40	0/765	0.90	2/1007 (0.2%)
50	DW	0.47	0/765	1.07	6/1007 (0.6%)
51	CX	0.37	0/221	0.83	0/288
51	DX	0.33	0/221	0.78	0/288
52	CB	0.25	0/2080	0.35	0/3242
52	DB	0.26	0/2080	0.35	0/3242
53	CC	0.27	0/1835	0.39	0/2859
53	CD	0.16	0/1835	0.30	0/2859
53	DC	0.26	0/1835	0.38	0/2859
53	DD	0.17	0/1835	0.30	0/2859
54	C1	0.40	0/226	0.35	0/348
54	D1	0.34	0/226	0.37	0/348
All	All	0.37	0/324077	0.63	430/485305 (0.1%)

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
3	AD	0	6
3	BD	0	3
4	AE	0	1
4	BE	0	6
5	BF	0	2
6	AG	0	1
6	BG	0	1
7	AH	0	2
7	BH	0	4
8	AK	0	5
8	BK	0	5
9	AM	0	1
11	AO	0	3
11	BO	0	3
13	B0	0	1
14	AQ	0	2
14	BQ	0	3
15	AR	0	2
16	A1	0	2
17	A2	0	1
20	BU	0	2
21	AV	0	3
21	BV	0	3
22	A3	0	2
24	AW	0	2
24	BW	0	1
26	A4	0	3
26	B4	0	1
27	A5	0	3
27	B5	0	1
28	A6	0	1
28	B6	0	1
30	A8	0	2
32	CE	0	3
32	DE	0	4
33	CF	0	1
33	DF	0	1
34	DG	0	1
38	CK	0	1
40	CM	0	1
40	DM	0	1
42	CO	0	2
44	CQ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
44	DQ	0	1
45	CR	0	1
50	DW	0	1
All	All	0	98

There are no bond length outliers.

All (430) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	DW	12	ALA	N-CA-C	-11.70	98.43	113.17
4	BE	67	PHE	N-CA-C	-11.36	99.07	113.16
25	AX	11	SER	CA-C-N	11.31	131.64	119.87
25	AX	11	SER	C-N-CA	11.31	131.64	119.87
34	CG	31	CYS	N-CA-C	-10.89	99.52	112.92
11	AO	47	ASP	CA-C-N	10.79	131.62	119.32
11	AO	47	ASP	C-N-CA	10.79	131.62	119.32
12	BP	125	LEU	CA-C-N	10.78	130.38	119.82
12	BP	125	LEU	C-N-CA	10.78	130.38	119.82
21	BV	157	LEU	CA-C-N	10.77	131.47	120.38
21	BV	157	LEU	C-N-CA	10.77	131.47	120.38
4	BE	63	LEU	N-CA-C	-10.71	100.41	113.15
3	BD	238	GLY	N-CA-C	-10.62	99.68	115.72
17	A2	49	THR	CA-C-N	-10.53	108.02	118.97
17	A2	49	THR	C-N-CA	-10.53	108.02	118.97
7	BH	167	GLU	CA-C-N	10.35	132.78	119.84
7	BH	167	GLU	C-N-CA	10.35	132.78	119.84
21	AV	63	ASP	N-CA-C	-10.05	99.58	113.56
7	BH	152	ARG	N-CA-C	9.87	122.60	108.00
32	CE	127	ILE	N-CA-C	9.68	120.52	110.36
3	AD	272	ALA	N-CA-C	9.63	120.59	108.45
4	AE	188	VAL	CA-C-N	9.49	129.32	120.21
4	AE	188	VAL	C-N-CA	9.49	129.32	120.21
7	AH	139	GLN	N-CA-C	-9.47	100.05	111.69
34	DG	12	CYS	N-CA-C	-9.24	99.92	111.75
4	AE	119	ARG	N-CA-C	-9.09	97.66	111.56
24	AW	5	GLU	N-CA-C	-8.85	101.56	111.82
34	DG	171	GLY	CA-C-N	8.73	129.60	119.47
34	DG	171	GLY	C-N-CA	8.73	129.60	119.47
5	AF	9	ILE	CA-C-N	8.60	130.59	119.84
5	AF	9	ILE	C-N-CA	8.60	130.59	119.84
4	BE	73	GLU	CA-C-N	8.52	128.66	120.31
4	BE	73	GLU	C-N-CA	8.52	128.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	A8	52	LYS	CA-C-N	8.41	130.35	119.84
30	A8	52	LYS	C-N-CA	8.41	130.35	119.84
4	BE	72	VAL	N-CA-C	-8.39	100.19	111.44
42	CO	85	GLY	N-CA-C	-8.39	98.58	111.00
7	AH	11	VAL	CA-C-N	8.39	130.32	119.84
7	AH	11	VAL	C-N-CA	8.39	130.32	119.84
5	BF	126	VAL	N-CA-C	8.36	119.02	108.82
24	AW	17	SER	CA-C-N	8.36	130.29	119.84
24	AW	17	SER	C-N-CA	8.36	130.29	119.84
8	AK	136	VAL	CA-C-N	8.35	130.28	119.84
8	AK	136	VAL	C-N-CA	8.35	130.28	119.84
8	AK	135	GLU	N-CA-C	8.34	118.96	108.45
29	A7	47	ARG	N-CA-C	8.22	119.58	108.23
3	AD	238	GLY	N-CA-C	-8.12	103.46	115.72
4	AE	65	GLY	N-CA-C	-8.10	102.84	115.73
22	A3	82	ARG	CA-C-N	8.09	129.95	119.84
22	A3	82	ARG	C-N-CA	8.09	129.95	119.84
7	BH	125	VAL	CA-C-N	8.02	129.86	119.84
7	BH	125	VAL	C-N-CA	8.02	129.86	119.84
11	AO	36	LYS	CB-CA-C	-7.96	105.19	116.34
28	A6	28	ARG	N-CA-C	7.93	121.38	109.95
9	AM	46	VAL	N-CA-C	7.87	118.33	111.56
44	CQ	24	CYS	N-CA-C	-7.86	98.68	110.24
7	AH	153	LYS	CA-C-N	7.86	129.66	119.84
7	AH	153	LYS	C-N-CA	7.86	129.66	119.84
20	BU	30	VAL	N-CA-C	7.85	118.63	110.62
3	AD	235	GLY	N-CA-C	7.84	121.82	112.33
4	AE	31	CYS	CA-C-N	7.81	129.60	119.84
4	AE	31	CYS	C-N-CA	7.81	129.60	119.84
4	BE	61	ARG	CA-C-N	7.79	129.58	119.84
4	BE	61	ARG	C-N-CA	7.79	129.58	119.84
22	B3	82	ARG	CA-C-N	7.79	127.45	119.82
22	B3	82	ARG	C-N-CA	7.79	127.45	119.82
3	AD	13	ARG	N-CA-C	-7.73	103.30	112.89
15	BR	19	LEU	CA-C-N	7.71	128.17	119.92
15	BR	19	LEU	C-N-CA	7.71	128.17	119.92
5	AF	75	HIS	N-CA-C	7.69	121.06	108.99
9	AM	69	GLN	N-CA-C	7.62	119.28	110.97
37	CJ	111	ARG	CA-C-N	7.59	127.23	119.56
37	CJ	111	ARG	C-N-CA	7.59	127.23	119.56
15	AR	80	SER	CA-C-N	7.55	127.26	119.56
15	AR	80	SER	C-N-CA	7.55	127.26	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	DW	73	HIS	CB-CA-C	-7.48	106.88	115.79
15	BR	13	ARG	N-CA-C	-7.48	103.75	113.17
38	DK	100	ILE	CA-C-N	7.40	127.84	119.92
38	DK	100	ILE	C-N-CA	7.40	127.84	119.92
43	CP	101	GLN	CB-CA-C	-7.38	107.01	115.79
34	DG	135	LEU	CA-C-N	7.36	128.01	119.47
34	DG	135	LEU	C-N-CA	7.36	128.01	119.47
5	AF	197	ASP	N-CA-C	-7.34	100.36	110.35
21	BV	148	ASP	N-CA-C	7.30	121.46	111.17
7	BH	89	ILE	N-CA-C	7.29	117.89	110.82
4	AE	70	ALA	N-CA-C	-7.27	104.41	113.28
40	CM	86	MET	N-CA-C	-7.25	95.36	110.80
50	DW	9	ASN	N-CA-C	7.23	118.81	111.07
12	AP	106	VAL	CB-CA-C	-7.22	103.36	111.45
3	BD	267	SER	N-CA-C	-7.22	101.24	110.19
5	AF	80	ALA	CA-C-N	7.19	126.89	119.56
5	AF	80	ALA	C-N-CA	7.19	126.89	119.56
32	DE	23	ARG	N-CA-C	-7.18	104.12	113.17
4	BE	137	HIS	CA-C-N	7.17	127.32	119.87
4	BE	137	HIS	C-N-CA	7.17	127.32	119.87
34	DG	50	ARG	CA-C-N	7.14	126.90	119.76
34	DG	50	ARG	C-N-CA	7.14	126.90	119.76
49	DV	29	ARG	N-CA-C	7.13	120.22	109.95
5	BF	24	LEU	CA-C-N	-7.13	110.93	119.84
5	BF	24	LEU	C-N-CA	-7.13	110.93	119.84
26	A4	45	GLY	N-CA-C	-7.11	96.34	113.18
4	AE	132	HIS	N-CA-C	7.07	125.86	110.80
3	BD	239	ARG	CB-CA-C	-7.07	107.38	115.79
1	BA	933	A	C4-N9-C1'	7.05	147.45	126.30
15	AR	111	ARG	N-CA-C	-7.01	101.25	110.43
8	BK	113	ARG	N-CA-C	-6.99	104.32	112.92
7	BH	153	LYS	CA-C-N	-6.96	114.62	121.65
7	BH	153	LYS	C-N-CA	-6.96	114.62	121.65
21	BV	147	GLY	N-CA-C	-6.95	104.87	114.67
32	DE	8	LYS	N-CA-C	6.93	118.26	108.00
45	DR	47	LYS	N-CA-C	-6.88	104.92	113.38
21	AV	166	SER	CA-C-N	6.87	126.50	119.56
21	AV	166	SER	C-N-CA	6.87	126.50	119.56
28	A6	23	THR	N-CA-C	6.87	119.82	110.55
7	AH	116	GLU	CA-C-N	6.87	127.45	120.38
7	AH	116	GLU	C-N-CA	6.87	127.45	120.38
17	A2	43	GLU	N-CA-C	-6.87	104.78	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A4	6	HIS	N-CA-C	6.82	120.54	110.10
30	A8	54	GLU	N-CA-C	-6.78	103.12	111.33
24	BW	5	GLU	N-CA-C	-6.78	104.27	112.54
16	B1	74	LEU	N-CA-C	6.77	117.52	108.38
15	AR	123	GLN	N-CA-C	-6.77	99.23	109.79
16	A1	9	VAL	N-CA-C	6.76	117.55	110.72
21	BV	176	PRO	N-CA-C	6.76	118.95	110.70
41	DN	120	ARG	CA-C-N	6.75	126.69	120.21
41	DN	120	ARG	C-N-CA	6.75	126.69	120.21
1	BA	933	A	C8-N9-C1'	-6.73	107.52	127.70
28	A6	48	VAL	N-CA-C	6.71	117.33	111.56
11	BO	25	SER	N-CA-C	-6.68	104.60	112.89
32	DE	130	ARG	CA-C-N	6.68	126.71	119.89
32	DE	130	ARG	C-N-CA	6.68	126.71	119.89
17	B2	49	THR	CA-C-N	-6.67	111.50	119.84
17	B2	49	THR	C-N-CA	-6.67	111.50	119.84
42	CO	112	LYS	CA-C-N	-6.66	112.77	123.23
42	CO	112	LYS	C-N-CA	-6.66	112.77	123.23
4	BE	2	LYS	N-CA-C	6.65	119.31	110.53
8	BK	120	ILE	N-CA-C	6.65	116.79	110.74
32	CE	6	THR	N-CA-C	6.64	118.42	110.19
3	BD	256	GLY	N-CA-C	6.63	122.58	114.69
17	A2	28	GLU	CA-C-N	6.61	127.14	119.47
17	A2	28	GLU	C-N-CA	6.61	127.14	119.47
12	AP	125	LEU	CA-C-N	6.58	126.71	119.87
12	AP	125	LEU	C-N-CA	6.58	126.71	119.87
4	AE	85	ASN	CA-C-N	6.54	128.02	119.84
4	AE	85	ASN	C-N-CA	6.54	128.02	119.84
4	AE	134	ILE	N-CA-C	6.54	118.38	112.17
26	B4	32	TYR	N-CA-C	6.53	118.58	109.31
9	AM	57	ALA	N-CA-C	-6.53	99.58	109.95
4	AE	137	HIS	CA-C-N	6.52	126.14	119.56
4	AE	137	HIS	C-N-CA	6.52	126.14	119.56
25	BX	11	SER	CA-C-N	6.50	126.63	119.87
25	BX	11	SER	C-N-CA	6.50	126.63	119.87
10	AN	118	ALA	CA-C-N	6.49	126.07	119.19
10	AN	118	ALA	C-N-CA	6.49	126.07	119.19
3	AD	229	VAL	CB-CA-C	-6.47	103.40	112.14
9	AM	37	LYS	N-CA-C	-6.47	104.63	113.30
3	AD	28	GLU	N-CA-C	-6.45	95.56	109.81
9	BM	39	ARG	CA-C-N	-6.44	111.79	119.84
9	BM	39	ARG	C-N-CA	-6.44	111.79	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	DF	194	GLY	N-CA-C	6.40	118.03	111.95
6	AG	86	MET	CA-C-N	-6.38	111.86	119.84
6	AG	86	MET	C-N-CA	-6.38	111.86	119.84
19	AT	10	ALA	CA-C-N	6.37	126.59	119.90
19	AT	10	ALA	C-N-CA	6.37	126.59	119.90
29	A7	39	ARG	N-CA-C	-6.37	100.85	110.28
21	BV	129	SER	CA-C-N	6.37	126.06	119.56
21	BV	129	SER	C-N-CA	6.37	126.06	119.56
50	CW	74	LYS	CB-CA-C	-6.34	107.46	116.34
9	BM	41	ASP	N-CA-C	-6.33	105.60	113.38
6	BG	118	ARG	N-CA-C	-6.31	102.36	110.19
49	DV	11	VAL	N-CA-C	6.30	118.10	108.71
50	DW	75	ASN	N-CA-C	-6.30	105.23	113.17
7	AH	167	GLU	CA-C-N	6.29	127.70	119.84
7	AH	167	GLU	C-N-CA	6.29	127.70	119.84
8	BK	102	SER	N-CA-C	-6.29	97.41	110.80
10	AN	5	GLN	N-CA-CB	-6.28	107.82	114.10
12	AP	106	VAL	N-CA-C	6.27	117.30	110.21
34	CG	28	SER	CA-C-N	-6.26	112.01	119.84
34	CG	28	SER	C-N-CA	-6.26	112.01	119.84
27	A5	6	VAL	N-CA-CB	-6.23	107.53	111.83
11	AO	25	SER	N-CA-C	-6.22	105.41	112.87
26	B4	20	ASN	N-CA-C	6.21	119.33	109.65
12	AP	136	ALA	N-CA-C	-6.20	104.98	112.54
21	AV	14	LYS	CA-C-N	6.18	126.37	119.32
21	AV	14	LYS	C-N-CA	6.18	126.37	119.32
16	B1	96	ALA	N-CA-C	-6.18	105.79	113.15
28	A6	49	HIS	N-CA-C	6.15	118.11	110.91
13	B0	3	HIS	N-CA-C	6.14	119.26	110.24
26	B4	26	SER	CB-CA-C	-6.12	108.90	117.23
7	AH	4	ILE	N-CA-C	6.12	117.53	109.21
11	AO	116	GLY	N-CA-C	6.10	122.44	111.34
7	AH	54	ARG	CA-C-N	6.09	125.30	118.97
7	AH	54	ARG	C-N-CA	6.09	125.30	118.97
5	AF	93	LYS	CA-C-N	-6.09	113.49	119.76
5	AF	93	LYS	C-N-CA	-6.09	113.49	119.76
13	A0	9	LYS	N-CA-C	-6.08	99.36	109.46
42	CO	121	LYS	CA-C-N	6.07	126.53	120.52
42	CO	121	LYS	C-N-CA	6.07	126.53	120.52
45	CR	88	ARG	N-CA-C	6.07	119.16	110.24
26	B4	55	ARG	N-CA-C	6.07	116.44	108.07
37	DJ	132	GLY	N-CA-C	6.07	119.79	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	BV	14	LYS	CA-C-N	6.05	125.61	119.19
21	BV	14	LYS	C-N-CA	6.05	125.61	119.19
34	DG	180	GLY	N-CA-C	-6.05	105.08	115.61
19	BT	5	TYR	N-CA-C	-6.04	105.89	113.20
6	AG	15	VAL	CB-CA-C	-6.04	104.11	112.02
40	DM	79	ARG	N-CA-C	-6.04	105.97	113.15
10	AN	71	ARG	CA-C-N	6.02	125.64	119.56
10	AN	71	ARG	C-N-CA	6.02	125.64	119.56
38	DK	56	LYS	CA-C-N	6.02	126.22	119.90
38	DK	56	LYS	C-N-CA	6.02	126.22	119.90
42	DO	64	TYR	N-CA-C	6.02	117.64	111.14
34	DG	148	VAL	N-CA-C	-6.01	106.87	111.62
24	BW	47	ASN	N-CA-C	6.01	119.45	111.75
34	CG	32	ALA	N-CA-C	-5.99	103.88	113.28
24	BW	42	GLY	N-CA-C	-5.97	103.41	112.84
5	AF	199	TRP	N-CA-C	-5.97	104.35	111.69
3	AD	42	GLY	N-CA-C	5.96	119.65	111.54
16	A1	74	LEU	N-CA-C	5.95	118.93	108.75
4	AE	186	GLY	N-CA-C	5.95	123.05	114.67
49	CV	67	VAL	N-CA-C	5.95	116.60	110.36
9	AM	5	VAL	CA-C-N	5.94	127.27	119.84
9	AM	5	VAL	C-N-CA	5.94	127.27	119.84
23	BZ	11	ARG	CA-C-N	5.93	125.95	119.90
23	BZ	11	ARG	C-N-CA	5.93	125.95	119.90
44	DQ	13	THR	CA-C-N	5.92	127.24	119.84
44	DQ	13	THR	C-N-CA	5.92	127.24	119.84
6	BG	121	ASN	CA-C-N	5.92	125.46	119.19
6	BG	121	ASN	C-N-CA	5.92	125.46	119.19
7	AH	170	ARG	N-CA-C	5.91	115.65	107.73
19	AT	5	TYR	N-CA-C	-5.91	105.84	113.16
7	AH	117	PRO	N-CA-C	5.90	117.90	110.70
20	AU	6	HIS	N-CA-C	5.90	119.94	112.87
5	AF	130	ALA	N-CA-C	-5.88	106.05	113.23
4	BE	64	LYS	CB-CA-C	-5.88	108.14	115.89
5	BF	130	ALA	N-CA-C	-5.88	105.97	113.02
3	BD	243	GLY	N-CA-C	-5.87	107.15	115.43
17	A2	39	LEU	N-CA-C	5.87	120.59	113.38
21	BV	115	GLY	N-CA-C	-5.86	107.86	115.59
35	CH	154	GLY	N-CA-C	-5.85	104.06	111.72
49	DV	75	ALA	CA-C-N	5.85	125.61	119.76
49	DV	75	ALA	C-N-CA	5.85	125.61	119.76
26	B4	37	SER	CB-CA-C	-5.84	109.29	117.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	DF	146	ALA	N-CA-C	5.84	117.83	110.24
27	A5	59	GLU	N-CA-C	-5.84	106.11	113.18
21	AV	86	VAL	CB-CA-C	-5.83	101.82	110.33
10	AN	98	VAL	N-CA-C	5.81	117.70	108.87
4	BE	89	ASP	N-CA-C	-5.81	99.48	108.42
11	AO	139	LYS	N-CA-C	-5.80	105.91	112.87
42	CO	43	LYS	N-CA-C	-5.77	103.03	110.19
13	A0	9	LYS	CA-C-N	-5.76	114.61	123.14
13	A0	9	LYS	C-N-CA	-5.76	114.61	123.14
46	CS	65	GLN	CA-C-N	5.76	125.72	119.78
46	CS	65	GLN	C-N-CA	5.76	125.72	119.78
46	DS	40	ASP	CA-C-N	5.76	125.47	119.82
46	DS	40	ASP	C-N-CA	5.76	125.47	119.82
3	AD	107	ALA	CA-C-N	5.76	125.73	120.03
3	AD	107	ALA	C-N-CA	5.76	125.73	120.03
32	DE	10	LEU	N-CA-C	-5.76	105.75	112.89
15	BR	9	LEU	N-CA-C	-5.75	105.53	112.54
10	AN	26	LYS	N-CA-C	-5.75	100.30	108.23
30	A8	29	LYS	CA-C-N	-5.74	113.92	123.33
30	A8	29	LYS	C-N-CA	-5.74	113.92	123.33
22	B3	22	GLY	N-CA-C	5.74	119.96	111.76
35	CH	127	ASN	CA-C-N	5.74	125.10	118.85
35	CH	127	ASN	C-N-CA	5.74	125.10	118.85
9	AM	25	ARG	N-CA-C	-5.73	105.11	111.36
38	CK	71	GLY	CA-C-N	-5.73	112.67	119.84
38	CK	71	GLY	C-N-CA	-5.73	112.67	119.84
15	AR	100	TYR	N-CA-C	-5.73	106.33	113.38
8	AK	28	ASN	N-CA-C	5.73	120.39	113.17
9	AM	98	VAL	N-CA-C	-5.72	104.77	111.00
6	BG	31	VAL	CA-C-N	5.71	126.04	119.93
6	BG	31	VAL	C-N-CA	5.71	126.04	119.93
4	BE	23	VAL	N-CA-C	5.71	121.21	109.34
12	AP	138	ASP	N-CA-C	-5.70	106.37	113.15
7	BH	152	ARG	CB-CA-C	-5.70	108.36	116.34
48	CU	23	LYS	N-CA-C	-5.70	105.05	112.23
6	BG	181	ARG	N-CA-C	-5.69	106.19	113.02
38	CK	100	ILE	CA-C-N	5.69	126.01	119.92
38	CK	100	ILE	C-N-CA	5.69	126.01	119.92
7	AH	117	PRO	CA-C-N	5.69	126.17	120.14
7	AH	117	PRO	C-N-CA	5.69	126.17	120.14
10	BN	29	ASN	N-CA-C	5.68	119.91	112.92
4	BE	168	MET	N-CA-C	5.68	118.89	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	CO	60	GLY	N-CA-C	-5.68	108.20	115.42
11	AO	26	GLY	N-CA-C	-5.67	99.92	112.17
6	BG	44	GLY	N-CA-C	-5.67	105.35	113.86
3	AD	43	ARG	N-CA-C	5.67	120.19	113.16
43	CP	116	THR	CB-CA-C	-5.67	100.65	109.61
34	DG	33	MET	N-CA-C	-5.67	102.09	110.48
7	AH	136	ILE	CB-CA-C	-5.66	104.66	112.24
28	A6	29	ASN	N-CA-C	-5.65	106.15	113.16
46	CS	75	ARG	N-CA-C	-5.65	104.76	111.03
16	B1	99	ALA	N-CA-C	-5.64	102.00	113.29
27	A5	19	ARG	N-CA-C	-5.64	105.22	111.71
38	CK	66	GLY	CA-C-N	5.62	126.06	119.99
38	CK	66	GLY	C-N-CA	5.62	126.06	119.99
35	CH	67	VAL	N-CA-C	5.61	116.44	108.42
7	AH	87	LEU	N-CA-C	5.60	122.73	110.80
15	AR	59	THR	N-CA-C	-5.60	102.51	110.35
43	DP	112	GLY	CA-C-N	5.59	125.79	120.31
43	DP	112	GLY	C-N-CA	5.59	125.79	120.31
3	AD	27	THR	N-CA-C	-5.59	98.90	110.80
27	A5	51	TYR	N-CA-C	5.58	115.47	108.45
46	CS	20	VAL	N-CA-C	5.56	116.37	108.42
17	A2	44	LYS	CB-CA-C	-5.54	108.58	116.34
8	BK	75	LEU	N-CA-C	5.54	117.27	108.79
3	AD	10	THR	CA-C-N	-5.54	114.08	119.78
3	AD	10	THR	C-N-CA	-5.54	114.08	119.78
3	AD	46	GLN	CA-C-N	5.52	133.13	122.97
3	AD	46	GLN	C-N-CA	5.52	133.13	122.97
18	AS	92	ARG	N-CA-C	5.52	118.13	111.40
15	AR	14	TYR	N-CA-C	-5.49	106.35	113.16
30	A8	50	LEU	N-CA-C	5.49	117.63	108.02
14	BQ	56	LEU	N-CA-C	-5.48	106.91	113.21
30	A8	36	LYS	N-CA-C	-5.47	101.20	109.85
6	AG	119	GLY	N-CA-C	5.47	117.15	111.95
7	AH	151	ILE	N-CA-C	-5.47	100.79	108.12
7	BH	126	PRO	N-CA-C	5.46	123.71	112.47
30	A8	44	LYS	N-CA-C	5.45	117.89	107.75
23	AZ	54	ALA	CB-CA-C	-5.45	110.27	116.54
8	AK	13	GLY	N-CA-C	5.44	119.32	112.79
17	A2	44	LYS	N-CA-C	5.44	116.05	108.00
11	AO	3	LEU	CA-C-N	-5.43	114.73	122.77
11	AO	3	LEU	C-N-CA	-5.43	114.73	122.77
13	A0	109	ALA	N-CA-C	5.43	116.50	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	DM	51	ARG	N-CA-C	5.42	116.88	110.97
15	BR	2	ASN	N-CA-C	-5.41	104.42	111.02
20	BU	102	CYS	N-CA-C	5.41	116.01	108.00
9	AM	114	ARG	N-CA-C	-5.39	101.39	109.79
20	BU	93	GLY	N-CA-C	-5.39	105.64	112.54
6	AG	31	VAL	CA-C-N	5.39	125.69	119.93
6	AG	31	VAL	C-N-CA	5.39	125.69	119.93
11	AO	46	LYS	N-CA-C	5.38	119.48	113.02
22	B3	14	ARG	N-CA-C	5.37	117.69	109.95
9	AM	8	GLN	N-CA-C	5.37	118.62	111.75
12	AP	3	MET	CA-C-N	5.36	126.54	119.84
12	AP	3	MET	C-N-CA	5.36	126.54	119.84
42	CO	46	ASN	N-CA-C	5.35	117.20	109.07
41	DN	38	ASN	CA-C-N	5.34	125.60	119.83
41	DN	38	ASN	C-N-CA	5.34	125.60	119.83
43	DP	63	THR	CB-CA-C	-5.34	109.97	117.23
30	A8	38	GLY	N-CA-C	-5.33	106.32	112.83
5	AF	65	TRP	CA-C-N	5.33	126.50	119.84
5	AF	65	TRP	C-N-CA	5.33	126.50	119.84
6	AG	45	GLU	N-CA-C	-5.33	105.42	112.34
48	DU	35	ARG	N-CA-C	5.32	119.83	113.23
5	BF	194	MET	N-CA-C	5.31	118.09	109.06
44	DQ	53	LEU	CA-C-N	5.31	125.57	119.83
44	DQ	53	LEU	C-N-CA	5.31	125.57	119.83
26	A4	52	THR	N-CA-C	5.31	115.29	108.34
20	AU	60	PHE	N-CA-C	5.30	116.33	108.86
38	CK	4	ASP	CA-C-N	5.30	124.63	118.85
38	CK	4	ASP	C-N-CA	5.30	124.63	118.85
24	AW	51	ARG	N-CA-C	-5.30	105.15	111.03
26	A4	12	ALA	N-CA-C	5.30	116.33	108.86
9	BM	127	ASP	CB-CA-C	-5.29	109.49	115.79
33	CF	108	ASN	CA-C-N	5.29	124.80	119.19
33	CF	108	ASN	C-N-CA	5.29	124.80	119.19
16	A1	53	ARG	N-CA-C	-5.27	105.71	111.82
34	CG	116	GLN	N-CA-C	-5.26	105.54	111.28
19	AT	25	LYS	N-CA-C	5.26	117.19	108.20
32	DE	8	LYS	CB-CA-C	-5.25	108.99	116.34
43	DP	67	GLU	CB-CA-C	-5.24	110.51	116.54
20	AU	101	LYS	N-CA-C	5.24	117.26	107.99
49	CV	62	ILE	N-CA-C	5.23	115.51	107.77
9	BM	52	VAL	N-CA-C	5.23	115.57	107.78
9	BM	127	ASP	N-CA-C	5.23	118.94	109.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	A8	33	ASN	N-CA-C	5.22	121.92	110.80
16	B1	76	TYR	N-CA-C	-5.22	105.27	111.69
26	A4	40	HIS	N-CA-C	5.22	121.34	109.81
30	A8	32	LEU	N-CA-C	5.21	118.67	112.72
4	AE	60	ASN	CB-CA-C	-5.21	110.14	117.23
3	AD	155	LEU	N-CA-C	5.20	117.83	110.50
16	A1	30	LYS	N-CA-C	5.19	118.08	111.69
5	BF	2	LYS	N-CA-C	5.19	117.22	109.59
14	AQ	62	LYS	N-CA-C	5.19	118.39	111.75
3	BD	196	VAL	N-CA-C	5.18	116.65	111.00
26	B4	42	PHE	N-CA-C	5.18	116.97	110.91
28	A6	18	ARG	N-CA-C	-5.18	105.85	113.72
5	BF	65	TRP	CA-C-N	5.17	126.30	119.84
5	BF	65	TRP	C-N-CA	5.17	126.30	119.84
35	DH	18	ARG	N-CA-C	-5.16	100.89	108.99
42	CO	115	SER	N-CA-C	-5.15	105.35	110.97
34	CG	38	TYR	CA-C-N	5.15	125.69	120.38
34	CG	38	TYR	C-N-CA	5.15	125.69	120.38
7	AH	9	ILE	CA-C-N	5.15	126.28	119.84
7	AH	9	ILE	C-N-CA	5.15	126.28	119.84
17	A2	40	LEU	N-CA-C	5.15	116.89	108.55
35	DH	48	ALA	CA-C-N	5.15	125.44	119.47
35	DH	48	ALA	C-N-CA	5.15	125.44	119.47
21	BV	56	VAL	N-CA-C	5.14	116.64	109.80
9	AM	9	VAL	N-CA-C	5.14	120.03	109.34
5	BF	86	GLY	N-CA-C	5.13	119.13	112.25
29	B7	6	GLN	CA-C-N	5.13	125.38	119.83
29	B7	6	GLN	C-N-CA	5.13	125.38	119.83
50	CW	86	ARG	N-CA-C	-5.13	107.02	113.28
6	AG	15	VAL	N-CA-C	5.13	115.35	110.53
3	AD	127	VAL	N-CA-C	5.12	116.62	109.55
33	DF	19	GLU	N-CA-C	-5.12	107.08	113.38
7	AH	89	ILE	N-CA-C	5.11	115.12	107.51
20	AU	102	CYS	N-CA-C	5.11	115.56	108.00
12	AP	10	ARG	N-CA-C	-5.10	103.66	110.55
34	CG	26	CYS	N-CA-C	-5.10	105.71	112.34
35	DH	76	ILE	CA-C-N	5.10	125.38	119.47
35	DH	76	ILE	C-N-CA	5.10	125.38	119.47
26	B4	49	PHE	N-CA-C	5.10	116.55	109.31
9	AM	13	TRP	N-CA-C	5.09	116.94	108.02
11	BO	118	GLY	N-CA-C	-5.09	105.35	112.18
5	BF	8	GLN	N-CA-C	5.09	117.36	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	DW	97	ALA	CA-C-N	5.09	126.20	119.84
50	DW	97	ALA	C-N-CA	5.09	126.20	119.84
15	AR	13	ARG	N-CA-C	-5.09	106.76	113.17
34	DG	63	LYS	N-CA-C	-5.08	105.39	111.03
46	DS	83	GLU	CB-CA-C	-5.08	110.74	116.63
40	DM	49	VAL	N-CA-C	5.08	115.43	108.12
38	CK	100	ILE	N-CA-C	5.07	113.73	109.02
42	DO	128	ALA	CB-CA-C	-5.07	110.33	117.23
18	BS	16	LYS	N-CA-C	5.06	117.92	111.69
47	CT	23	VAL	N-CA-C	5.06	114.86	107.37
8	AK	122	GLU	N-CA-C	5.05	115.47	108.00
34	DG	147	ALA	N-CA-C	5.03	114.92	108.34
14	BQ	19	LYS	N-CA-C	-5.02	103.85	110.43
24	AW	47	ASN	N-CA-C	5.02	117.13	111.11
5	AF	168	ARG	N-CA-C	5.02	117.40	111.33
39	CL	17	VAL	N-CA-C	5.01	115.24	107.28
39	DL	20	ARG	CA-C-N	5.00	125.00	119.90
39	DL	20	ARG	C-N-CA	5.00	125.00	119.90
8	BK	142	VAL	N-CA-C	5.00	115.83	107.18

There are no chirality outliers.

All (98) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	A1	90	VAL	Peptide
16	A1	92	ARG	Peptide
17	A2	48	GLY	Peptide
22	A3	83	PRO	Peptide
22	A3	84	LEU	Peptide
26	A4	38	LYS	Peptide
26	A4	40	HIS	Peptide
26	A4	51	ASP	Peptide
27	A5	4	HIS	Peptide
27	A5	46	CYS	Peptide
27	A5	47	PRO	Peptide
28	A6	27	LYS	Peptide
30	A8	51	ALA	Peptide
30	A8	52	LYS	Peptide
3	AD	122	ASP	Peptide
3	AD	236	GLY	Peptide
3	AD	237	GLU	Peptide
3	AD	27	THR	Peptide

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Mol	Chain	Res	Type	Group
3	AD	28	GLU	Peptide
3	AD	47	GLY	Peptide
4	AE	131	ALA	Peptide
6	AG	13	GLU	Peptide
7	AH	153	LYS	Peptide
7	AH	7	LEU	Peptide
8	AK	10	GLU	Peptide
8	AK	104	GLN	Peptide
8	AK	116	LEU	Peptide
8	AK	134	PRO	Peptide
8	AK	82	ARG	Peptide
9	AM	96	GLU	Peptide
11	AO	115	LEU	Peptide
11	AO	26	GLY	Peptide
11	AO	36	LYS	Peptide
14	AQ	110	LEU	Peptide
14	AQ	89	ARG	Peptide
15	AR	115	ARG	Peptide
15	AR	3	ARG	Peptide
21	AV	160	GLY	Peptide
21	AV	5	LEU	Peptide
21	AV	63	ASP	Peptide
24	AW	15	LYS	Peptide
24	AW	17	SER	Peptide
13	B0	106	GLY	Peptide
26	B4	40	HIS	Peptide
27	B5	56	LYS	Peptide
28	B6	18	ARG	Peptide
3	BD	236	GLY	Peptide
3	BD	237	GLU	Peptide
3	BD	29	PRO	Peptide
4	BE	186	GLY	Peptide
4	BE	201	THR	Peptide
4	BE	203	LYS	Peptide
4	BE	61	ARG	Peptide
4	BE	65	GLY	Peptide
4	BE	88	GLY	Peptide
5	BF	123	LEU	Peptide
5	BF	2	LYS	Peptide
6	BG	13	GLU	Peptide
7	BH	124	GLU	Peptide
7	BH	125	VAL	Peptide

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Mol	Chain	Res	Type	Group
7	BH	152	ARG	Peptide
7	BH	155	SER	Peptide
8	BK	101	LEU	Peptide
8	BK	112	LYS	Peptide
8	BK	142	VAL	Peptide
8	BK	143	SER	Peptide
8	BK	82	ARG	Peptide
11	BO	115	LEU	Peptide
11	BO	139	LYS	Peptide
11	BO	36	LYS	Peptide
14	BQ	108	GLY	Peptide
14	BQ	109	GLY	Peptide
14	BQ	56	LEU	Peptide
20	BU	46	LYS	Peptide
20	BU	76	CYS	Peptide
21	BV	148	ASP	Peptide
21	BV	175	VAL	Peptide
21	BV	61	LEU	Peptide
24	BW	43	GLN	Peptide
32	CE	14	GLY	Peptide
32	CE	194	PRO	Peptide
32	CE	71	VAL	Peptide
33	CF	189	ALA	Peptide
38	CK	102	ARG	Peptide
40	CM	55	LYS	Peptide
42	CO	14	LYS	Peptide
42	CO	44	LYS	Peptide
44	CQ	13	THR	Peptide
45	CR	87	ILE	Peptide
32	DE	231	GLU	Peptide
32	DE	237	ALA	Peptide
32	DE	71	VAL	Peptide
32	DE	73	THR	Peptide
33	DF	47	LEU	Peptide
34	DG	13	ARG	Peptide
40	DM	56	HIS	Peptide
44	DQ	14	PRO	Peptide
50	DW	11	SER	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	62707	0	31613	2747	0
1	BA	62647	0	31583	2777	1
2	AB	2617	0	1328	106	0
2	BB	2617	0	1328	134	0
3	AD	2115	0	2195	273	0
3	BD	2115	0	2195	246	0
4	AE	1568	0	1634	297	0
4	BE	1568	0	1634	294	0
5	AF	1585	0	1632	150	0
5	BF	1627	0	1680	212	0
6	AG	1474	0	1535	205	0
6	BG	1474	0	1535	169	0
7	AH	1307	0	1382	160	0
7	BH	1307	0	1382	149	2
8	AK	1136	0	1223	130	0
8	BK	1136	0	1223	106	0
9	AM	1104	0	1180	140	0
9	BM	1104	0	1180	108	0
10	AN	933	0	996	60	0
10	BN	933	0	996	71	0
11	AO	1145	0	1228	253	0
11	BO	1145	0	1228	317	0
12	AP	1122	0	1179	215	0
12	BP	1122	0	1179	251	0
13	A0	968	0	1033	85	0
13	B0	960	0	1021	87	0
14	AQ	882	0	943	105	0
14	BQ	882	0	943	107	0
15	AR	1141	0	1202	134	0
15	BR	1141	0	1202	136	0
16	A1	964	0	1022	117	0
16	B1	964	0	1022	112	0
17	A2	779	0	852	100	1
17	B2	779	0	852	183	0
18	AS	900	0	964	86	0
18	BS	900	0	964	59	0
19	AT	725	0	778	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	BT	725	0	778	63	0
20	AU	785	0	878	96	0
20	BU	785	0	878	118	0
21	AV	1397	0	1430	148	0
21	BV	1428	0	1454	145	0
22	A3	607	0	628	66	0
22	B3	613	0	633	59	0
23	AZ	763	0	848	68	0
23	BZ	763	0	848	62	0
24	AW	558	0	610	48	0
24	BW	581	0	629	65	0
25	AX	469	0	518	35	0
25	BX	469	0	518	34	0
26	A4	533	0	522	82	0
26	B4	515	0	510	111	0
27	A5	459	0	480	79	1
27	B5	459	0	480	72	0
28	A6	389	0	404	89	0
28	B6	389	0	404	110	0
29	A7	430	0	480	29	0
29	B7	430	0	480	32	0
30	A8	488	0	560	108	0
30	B8	488	0	560	156	0
31	CA	32369	0	16339	1553	2
31	DA	32372	0	16338	1514	1
32	CE	1924	0	1975	197	0
32	DE	1924	0	1975	215	0
33	CF	1605	0	1668	127	0
33	DF	1612	0	1677	168	0
34	CG	1703	0	1764	185	0
34	DG	1703	0	1763	162	1
35	CH	1155	0	1213	83	0
35	DH	1155	0	1213	95	0
36	CI	843	0	857	63	1
36	DI	843	0	857	48	0
37	CJ	1257	0	1296	76	0
37	DJ	1257	0	1296	94	0
38	CK	1116	0	1177	103	0
38	DK	1116	0	1177	66	0
39	CL	1010	0	1037	113	0
39	DL	1010	0	1037	131	0
40	CM	801	0	849	88	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	DM	801	0	849	97	0
41	CN	885	0	904	82	0
41	DN	885	0	904	45	0
42	CO	975	0	1062	65	0
42	DO	975	0	1062	90	0
43	CP	928	0	987	84	0
43	DP	933	0	992	110	0
44	CQ	492	0	529	60	0
44	DQ	492	0	529	60	0
45	CR	734	0	771	56	0
45	DR	734	0	771	46	0
46	CS	705	0	725	64	0
46	DS	705	0	725	48	0
47	CT	834	0	904	82	0
47	DT	834	0	904	45	0
48	CU	591	0	662	33	0
48	DU	591	0	662	43	0
49	CV	624	0	636	77	0
49	DV	624	0	636	103	0
50	CW	763	0	861	78	0
50	DW	763	0	861	72	0
51	CX	217	0	234	20	0
51	DX	217	0	234	28	0
52	CB	1861	0	938	83	0
52	DB	1861	0	938	82	0
53	CC	1643	0	837	68	0
53	CD	1643	0	837	99	0
53	DC	1643	0	837	77	0
53	DD	1643	0	837	111	0
54	C1	205	0	103	9	0
54	D1	205	0	103	9	0
55	A0	1	0	0	0	0
55	A1	1	0	0	0	0
55	A2	1	0	0	0	0
55	A3	1	0	0	0	0
55	A5	2	0	0	0	0
55	A6	1	0	0	0	0
55	A7	2	0	0	0	0
55	AA	626	0	0	0	0
55	AB	17	0	0	0	0
55	AD	1	0	0	0	0
55	AE	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	AF	3	0	0	0	0
55	AO	3	0	0	0	0
55	AU	1	0	0	0	0
55	AZ	1	0	0	0	0
55	B1	1	0	0	0	0
55	B3	1	0	0	0	0
55	B5	1	0	0	0	0
55	BA	528	0	0	0	0
55	BB	15	0	0	0	0
55	BD	1	0	0	0	0
55	BE	3	0	0	0	0
55	BP	1	0	0	0	0
55	BR	2	0	0	0	0
55	C1	1	0	0	0	0
55	CA	240	0	0	0	0
55	CB	5	0	0	0	0
55	CC	7	0	0	0	0
55	CD	1	0	0	0	0
55	CG	2	0	0	0	0
55	CN	2	0	0	0	0
55	CQ	2	0	0	0	0
55	CT	1	0	0	0	0
55	DA	204	0	0	0	0
55	DB	2	0	0	0	0
55	DC	8	0	0	0	0
55	DG	2	0	0	0	0
55	DH	1	0	0	0	0
55	DS	1	0	0	0	0
56	CA	42	0	45	4	0
56	DA	42	0	45	5	0
57	CG	1	0	0	0	0
57	CQ	1	0	0	0	0
57	DG	1	0	0	0	0
57	DQ	1	0	0	0	0
All	All	299682	0	201028	17863	5

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 36.

All (17863) 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)
11:BO:62:LEU:CD1	30:B8:30:ARG:HH11	1.03	1.63
11:BO:71:VAL:CG1	11:BO:72:PRO:HD3	1.32	1.59
4:AE:23:VAL:HG12	4:AE:185:LYS:CA	1.33	1.59
1:BA:2015:A:C1'	27:B5:2:ALA:HA	1.42	1.48
4:BE:51:PHE:CG	4:BE:52:LEU:HB3	1.45	1.47
30:B8:22:VAL:CB	30:B8:50:LEU:HD23	1.46	1.44
12:AP:24:GLY:HA3	12:AP:25:ASP:CB	1.41	1.43
1:BA:2015:A:H1'	27:B5:2:ALA:CA	1.49	1.42
27:B5:4:HIS:HB3	27:B5:5:PRO:CD	1.47	1.42
1:AA:2015:A:H1'	27:A5:2:ALA:CA	1.46	1.42
1:BA:1225:C:O3'	17:B2:85:LYS:CB	1.67	1.41
1:AA:1056:G:N2	1:AA:1103:A:H62	1.02	1.40
1:BA:1226:G:P	17:B2:85:LYS:HB2	1.62	1.39
17:B2:76:LYS:HB2	17:B2:80:GLN:CB	1.49	1.39
12:AP:79:LEU:CD2	12:AP:80:GLU:HG2	1.50	1.39
17:B2:71:LEU:H	17:B2:86:GLY:CA	1.34	1.39
1:AA:2015:A:C1'	27:A5:2:ALA:HA	1.54	1.38
1:BA:226:G:N2	1:BA:228:A:N6	1.72	1.37
12:BP:24:GLY:HA3	12:BP:25:ASP:CB	1.41	1.36
17:B2:76:LYS:CB	17:B2:80:GLN:HB2	1.54	1.36
11:AO:61:ARG:NH2	11:AO:61:ARG:HB2	1.39	1.35
1:BA:226:G:H21	1:BA:228:A:N6	0.86	1.35
11:BO:61:ARG:HB2	11:BO:61:ARG:NH2	1.39	1.35
1:AA:2811:G:OP1	4:AE:61:ARG:CD	1.73	1.34
3:AD:35:LYS:HD2	3:AD:104:TYR:CD1	1.61	1.34
11:BO:62:LEU:CD1	30:B8:30:ARG:NH1	1.88	1.34
1:BA:226:G:N2	1:BA:228:A:H61	1.21	1.34
1:AA:2467:C:O2	12:AP:124:LYS:NZ	1.63	1.31
30:B8:22:VAL:HB	30:B8:50:LEU:CD2	1.58	1.31
12:AP:79:LEU:HD23	12:AP:80:GLU:N	1.46	1.30
4:BE:39:PRO:HD3	4:BE:45:THR:OG1	1.23	1.28
4:BE:51:PHE:CE1	4:BE:52:LEU:HG	1.66	1.28
1:BA:2681:C:C5	1:BA:2725:A:N6	2.00	1.27
1:AA:2811:G:OP1	4:AE:61:ARG:HD3	1.29	1.27
34:CG:12:CYS:SG	34:CG:19:LEU:CD2	2.23	1.26
4:AE:23:VAL:CG1	4:AE:185:LYS:CA	2.13	1.26
1:BA:1225:C:O3'	17:B2:85:LYS:HB2	1.13	1.26
12:BP:2:LEU:O	12:BP:70:PRO:HG2	1.30	1.26
30:B8:51:ALA:C	30:B8:53:PRO:HD2	1.58	1.25
11:BO:71:VAL:HG13	11:BO:72:PRO:CD	1.66	1.25
4:BE:37:ARG:HD3	4:BE:44:TYR:OH	1.08	1.25
1:BA:847:U:C4	1:BA:933:A:N6	2.03	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:64:LYS:HB3	30:B8:25:MET:CG	1.68	1.24
1:BA:9:U:N3	1:BA:2629:A:N6	1.84	1.24
14:BQ:27:SER:HA	14:BQ:88:ASP:CB	1.66	1.24
27:B5:3:LYS:CA	27:B5:3:LYS:HE3	1.66	1.24
4:AE:23:VAL:CG1	4:AE:185:LYS:HA	1.68	1.24
28:A6:44:ARG:O	28:A6:45:LYS:HD2	1.09	1.24
1:BA:882:G:H1	1:BA:894:C:N4	1.35	1.23
1:AA:1056:G:N2	1:AA:1103:A:N6	1.86	1.23
12:AP:79:LEU:HD22	12:AP:80:GLU:CG	1.68	1.23
4:AE:23:VAL:CG1	4:AE:185:LYS:HB3	1.69	1.22
11:AO:64:LYS:CB	30:A8:25:MET:HG3	1.67	1.22
4:AE:23:VAL:HB	4:AE:184:VAL:O	1.37	1.22
12:BP:75:THR:HG21	12:BP:87:LYS:CE	1.67	1.22
3:BD:35:LYS:HD2	3:BD:104:TYR:CD1	1.75	1.22
4:BE:51:PHE:CD1	4:BE:52:LEU:HG	1.75	1.22
4:BE:51:PHE:CZ	4:BE:52:LEU:HD12	1.73	1.21
31:DA:1160:G:O6	31:DA:1181:G:O6	1.58	1.20
4:AE:3:GLY:CA	4:AE:81:ILE:HG13	1.72	1.20
1:AA:1899:G:H22	1:AA:1902:C:N4	1.40	1.20
1:BA:1899:G:H22	1:BA:1902:C:N4	1.38	1.19
1:AA:49:A:N7	1:AA:120:U:C5	2.10	1.19
1:AA:2309:A:C4	1:AA:2310:A:C8	2.30	1.19
4:AE:23:VAL:HG12	4:AE:185:LYS:N	1.55	1.19
12:BP:2:LEU:O	12:BP:70:PRO:CG	1.91	1.19
21:BV:175:VAL:HG22	21:BV:176:PRO:HD3	1.23	1.19
1:BA:847:U:C5	1:BA:933:A:N6	2.11	1.19
17:B2:71:LEU:N	17:B2:86:GLY:HA2	1.56	1.19
4:BE:37:ARG:CD	4:BE:44:TYR:OH	1.91	1.18
11:BO:101:VAL:HG23	11:BO:106:LEU:CD1	1.74	1.18
12:BP:26:TYR:CD1	12:BP:139:GLU:HG2	1.78	1.18
31:DA:448:A:OP2	31:DA:485:G:N2	1.73	1.18
31:DA:975:A:H4'	31:DA:976:G:H5''	1.20	1.18
4:AE:23:VAL:CB	4:AE:184:VAL:O	1.91	1.18
1:BA:2571:C:H5'	1:BA:2572:A:H5''	1.25	1.18
11:BO:64:LYS:CB	30:B8:25:MET:HG3	1.72	1.17
28:B6:45:LYS:HA	28:B6:45:LYS:HE3	1.21	1.17
4:AE:23:VAL:CG1	4:AE:185:LYS:CB	2.22	1.17
4:BE:51:PHE:CD1	4:BE:52:LEU:HB3	1.78	1.17
7:BH:127:GLU:HG2	7:BH:128:PRO:HD2	1.28	1.16
28:B6:48:VAL:CG1	28:B6:49:HIS:H	1.56	1.16
1:AA:811:U:H2'	11:AO:21:ARG:O	1.42	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:15:ARG:HG2	11:AO:15:ARG:HH11	1.10	1.16
11:AO:65:ARG:HH11	11:AO:65:ARG:HG3	1.07	1.16
4:AE:79:ARG:HA	4:AE:79:ARG:NE	1.47	1.15
45:CR:87:ILE:HG22	45:CR:88:ARG:H	1.11	1.15
30:B8:22:VAL:CB	30:B8:50:LEU:CD2	2.17	1.15
11:AO:47:ASP:OD1	11:AO:50:ARG:NH2	1.79	1.15
1:AA:2811:G:OP1	4:AE:61:ARG:CG	1.93	1.15
27:B5:4:HIS:HB3	27:B5:5:PRO:HD3	1.16	1.15
29:A7:8:ASN:ND2	29:A7:11:LYS:H	1.43	1.15
4:AE:60:ASN:C	4:AE:61:ARG:HD2	1.70	1.14
12:BP:64:ILE:HA	12:BP:106:VAL:HG12	1.27	1.14
1:AA:2309:A:C5	1:AA:2310:A:N7	2.14	1.14
1:AA:631:A:OP2	30:A8:46:ARG:NH2	1.80	1.14
2:AB:15:A:H5'	2:AB:16:G:C8	1.81	1.14
28:A6:44:ARG:O	28:A6:45:LYS:CD	1.96	1.14
12:AP:79:LEU:O	12:AP:81:VAL:HG13	1.47	1.13
11:AO:71:VAL:CG1	11:AO:72:PRO:HD3	1.78	1.13
14:AQ:88:ASP:O	14:AQ:89:ARG:HB3	1.44	1.13
23:AZ:85:LEU:C	23:AZ:87:PRO:HD2	1.72	1.13
24:AW:4:SER:HB2	24:AW:5:GLU:OE2	1.47	1.13
11:BO:19:VAL:CG2	11:BO:27:HIS:HB3	1.79	1.13
1:BA:586:A:C5'	5:BF:89:VAL:HG21	1.77	1.13
17:B2:77:ALA:O	17:B2:78:LYS:HD3	1.48	1.13
1:AA:2309:A:C4	1:AA:2310:A:H8	1.64	1.13
4:AE:3:GLY:HA3	4:AE:81:ILE:CG1	1.78	1.12
4:BE:51:PHE:CD1	4:BE:52:LEU:CB	2.32	1.12
11:BO:62:LEU:HD12	30:B8:30:ARG:NH1	1.51	1.13
4:AE:23:VAL:HG13	4:AE:185:LYS:HB3	1.31	1.12
11:BO:71:VAL:CG1	11:BO:72:PRO:CD	2.21	1.12
11:BO:62:LEU:HD11	30:B8:30:ARG:HH11	1.02	1.12
27:B5:4:HIS:O	27:B5:6:VAL:HG23	1.47	1.12
3:AD:35:LYS:NZ	3:AD:104:TYR:HB2	1.63	1.12
53:DC:17:C:H3'	53:DC:18:C:H5''	1.20	1.12
3:BD:35:LYS:HE2	3:BD:104:TYR:HB2	1.24	1.11
31:CA:1053:G:H5'	31:CA:1054:C:H5'	1.23	1.11
4:AE:22:PRO:O	4:AE:23:VAL:HG13	1.48	1.11
6:AG:73:ALA:HB2	6:AG:82:LEU:HD21	1.15	1.11
4:BE:51:PHE:CD1	4:BE:52:LEU:CG	2.32	1.11
28:B6:48:VAL:HG13	28:B6:49:HIS:N	1.55	1.11
30:B8:33:ASN:H	30:B8:36:LYS:HE2	0.99	1.11
6:AG:82:LEU:HA	6:AG:86:MET:HE1	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1004:A:H1'	31:DA:1036:G:N1	1.64	1.11
4:BE:51:PHE:CE1	4:BE:52:LEU:CG	2.33	1.11
34:CG:12:CYS:SG	34:CG:19:LEU:HD22	1.89	1.11
1:AA:2468:G:H4'	1:AA:2469:A:OP1	1.39	1.10
1:BA:2840:C:H5''	13:B0:53:HIS:HD2	1.10	1.10
12:BP:26:TYR:CD1	12:BP:139:GLU:CG	2.33	1.10
4:AE:23:VAL:HG12	4:AE:185:LYS:HA	1.14	1.10
12:AP:68:ILE:HD13	12:AP:103:MET:HG2	1.29	1.10
1:BA:1070:A:H5'	1:BA:1071:G:H5''	1.33	1.10
11:BO:62:LEU:CD1	30:B8:30:ARG:HD2	1.81	1.10
12:BP:66:ILE:CG1	12:BP:67:ARG:H	1.59	1.10
53:CC:17:C:H3'	53:CC:18:C:H5''	1.15	1.10
1:AA:2393:A:H5'	11:AO:62:LEU:HB3	1.34	1.10
14:BQ:27:SER:CA	14:BQ:88:ASP:HB2	1.81	1.10
3:BD:44:ASN:HB3	3:BD:49:ILE:HA	1.24	1.10
4:BE:56:PRO:HB3	4:BE:57:LYS:CE	1.80	1.10
4:BE:56:PRO:CA	4:BE:57:LYS:HD3	1.81	1.10
1:AA:2610:C:H4'	1:AA:2611:U:OP2	1.50	1.10
15:AR:74:ARG:HH11	15:AR:74:ARG:HG2	1.04	1.10
20:AU:79:CYS:SG	20:AU:80:GLY:N	2.23	1.10
2:BB:74:U:H2'	2:BB:75:G:H5''	1.13	1.10
4:BE:56:PRO:HG3	4:BE:57:LYS:NZ	1.66	1.10
15:AR:36:GLU:HG3	15:AR:41:ARG:HD2	1.28	1.09
5:BF:89:VAL:HG12	5:BF:90:PHE:H	1.05	1.09
14:AQ:106:ARG:HA	14:AQ:110:LEU:HD11	1.32	1.09
4:BE:56:PRO:HB3	4:BE:57:LYS:HE2	1.21	1.09
9:BM:42:TRP:HA	9:BM:48:MET:HE3	1.34	1.09
27:B5:3:LYS:HA	27:B5:3:LYS:CE	1.82	1.09
30:B8:51:ALA:C	30:B8:53:PRO:CD	2.23	1.09
42:DO:23:LYS:HE2	42:DO:23:LYS:H	1.17	1.09
1:BA:389:G:H1	11:BO:71:VAL:HG12	1.14	1.09
4:BE:48:GLN:C	4:BE:49:LEU:HG	1.74	1.09
11:BO:64:LYS:CD	30:B8:25:MET:SD	2.40	1.09
12:BP:27:VAL:HG13	12:BP:105:GLU:OE2	1.52	1.09
31:CA:1305:G:H22	31:CA:1331:G:H2'	1.02	1.09
1:AA:2317:C:H2'	1:AA:2318:G:H5'	1.13	1.09
31:DA:168:G:H2'	31:DA:169:C:H5''	1.25	1.09
12:AP:75:THR:HB	12:AP:88:GLY:HA3	1.34	1.09
1:BA:2275:C:O2'	12:BP:84:GLY:CA	2.01	1.09
17:B2:80:GLN:HA	17:B2:80:GLN:HE21	1.09	1.09
30:B8:22:VAL:HG12	30:B8:50:LEU:HD21	1.20	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:119:ARG:HH11	4:AE:119:ARG:HG3	1.06	1.08
4:BE:52:LEU:HD22	4:BE:52:LEU:O	1.53	1.08
4:BE:52:LEU:H	4:BE:53:PRO:HD2	1.07	1.08
11:BO:71:VAL:HG12	11:BO:72:PRO:HD3	1.11	1.08
1:AA:49:A:N7	1:AA:120:U:H5	1.45	1.08
11:AO:9:ASN:HB3	11:AO:10:PRO:HD2	1.35	1.08
11:AO:64:LYS:HB3	30:A8:25:MET:HG3	1.09	1.08
4:BE:56:PRO:HA	4:BE:57:LYS:HD3	1.09	1.08
11:BO:62:LEU:HD13	30:B8:30:ARG:HD2	1.09	1.08
17:B2:71:LEU:N	17:B2:86:GLY:CA	2.11	1.08
31:CA:1178:G:H5'	39:CL:93:ARG:HH21	1.17	1.08
15:AR:57:PHE:O	15:AR:58:ASN:HB3	1.54	1.08
12:AP:24:GLY:CA	12:AP:25:ASP:CB	2.30	1.08
11:BO:65:ARG:HG3	11:BO:65:ARG:HH11	1.07	1.08
12:BP:75:THR:HG21	12:BP:87:LYS:HE2	1.08	1.08
1:BA:672:C:C2'	1:BA:673:C:H5''	1.83	1.08
1:BA:2393:A:H5'	11:BO:62:LEU:HB3	1.30	1.08
2:BB:74:U:C2'	2:BB:75:G:H5''	1.84	1.08
11:BO:15:ARG:HH11	11:BO:15:ARG:CG	1.67	1.08
11:BO:71:VAL:HG13	11:BO:72:PRO:HD3	1.11	1.08
48:DU:53:ARG:HG3	48:DU:63:GLN:HE21	1.16	1.08
1:AA:2032:G:H21	4:AE:146:THR:HG23	1.19	1.07
7:AH:83:TYR:HB3	7:AH:135:GLY:H	1.13	1.07
12:AP:66:ILE:HG13	12:AP:67:ARG:H	1.11	1.07
1:AA:1899:G:N2	1:AA:1902:C:H41	1.52	1.07
1:AA:2317:C:C2'	1:AA:2318:G:H5'	1.84	1.07
1:AA:1105:U:H2'	1:AA:1106:G:H8	1.16	1.07
2:AB:12:C:O2	22:A3:74:ARG:NH1	1.87	1.07
1:BA:2306:C:H3'	1:BA:2307:G:H5''	1.36	1.07
1:BA:2415:G:H4'	11:BO:67:MET:H	1.07	1.07
17:B2:73:SER:HB2	17:B2:83:ARG:HA	1.33	1.07
27:B5:16:ARG:HH11	27:B5:16:ARG:HG2	1.07	1.07
1:AA:2404:C:H1'	11:AO:67:MET:CE	1.85	1.07
4:AE:74:PRO:HG2	4:AE:77:ILE:HG22	1.30	1.07
30:A8:59:LYS:HB2	30:A8:59:LYS:HZ2	1.10	1.07
1:BA:2404:C:H1'	11:BO:67:MET:HE1	1.32	1.07
12:BP:24:GLY:CA	12:BP:25:ASP:CB	2.30	1.07
4:BE:52:LEU:C	4:BE:52:LEU:HD13	1.79	1.06
7:BH:125:VAL:HG22	7:BH:126:PRO:HD3	1.27	1.06
11:BO:47:ASP:OD2	11:BO:49:ARG:HG2	1.55	1.06
28:B6:25:LYS:HB3	30:B8:34:TRP:CH2	1.90	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:51:PHE:CG	4:BE:52:LEU:CB	2.39	1.06
15:BR:74:ARG:HH11	15:BR:74:ARG:HG2	0.96	1.06
31:DA:1256:A:OP2	33:DF:26:LYS:NZ	1.87	1.06
4:AE:14:ILE:HG23	4:AE:15:PHE:N	1.68	1.06
4:AE:23:VAL:HG13	4:AE:185:LYS:CB	1.83	1.06
11:AO:21:ARG:HA	11:AO:21:ARG:HE	1.12	1.06
12:BP:32:TYR:OH	12:BP:111:GLU:CB	2.04	1.06
30:B8:29:LYS:HG2	30:B8:29:LYS:O	1.44	1.06
12:AP:24:GLY:HA3	12:AP:25:ASP:HB2	1.08	1.06
1:BA:1899:G:N2	1:BA:1902:C:H41	1.52	1.06
34:DG:139:ARG:HG3	34:DG:139:ARG:HH11	1.18	1.06
11:AO:15:ARG:HH11	11:AO:15:ARG:CG	1.67	1.05
12:AP:64:ILE:HG22	12:AP:65:PHE:N	1.61	1.05
20:BU:13:VAL:HG21	20:BU:72:VAL:HB	1.32	1.05
27:B5:4:HIS:CB	27:B5:5:PRO:CD	2.30	1.05
31:CA:1139:G:N2	31:CA:1143:G:O6	1.89	1.05
32:DE:111:ARG:HH11	32:DE:111:ARG:HG2	0.98	1.05
1:AA:2371:G:H4'	28:A6:45:LYS:CG	1.86	1.05
9:AM:1:MET:HE1	16:A1:95:LEU:HD21	1.33	1.05
11:BO:64:LYS:HD2	30:B8:25:MET:SD	1.96	1.05
31:DA:376:G:H5''	46:DS:5:ARG:HD3	1.39	1.05
34:DG:13:ARG:HG2	34:DG:14:ARG:N	1.71	1.05
4:AE:23:VAL:HG12	4:AE:184:VAL:C	1.79	1.05
12:AP:24:GLY:HA3	12:AP:25:ASP:HB3	1.31	1.05
1:BA:273(C):C:N4	1:BA:363(C):G:H1	1.52	1.05
3:BD:27:THR:HG21	3:BD:83:GLU:HG2	1.37	1.05
8:BK:82:ARG:HH21	31:CA:56:U:H4'	1.14	1.05
45:DR:17:ARG:HG3	45:DR:17:ARG:HH11	1.18	1.05
1:AA:1884:A:H2'	1:AA:1885:A:H5''	1.30	1.05
11:AO:65:ARG:HH21	30:A8:15:LYS:HB2	1.16	1.05
3:BD:166:GLN:HE21	3:BD:166:GLN:HA	1.19	1.05
11:BO:64:LYS:CB	30:B8:25:MET:CG	2.33	1.05
12:BP:30:GLY:CA	12:BP:107:ALA:HB2	1.87	1.05
28:B6:48:VAL:O	28:B6:49:HIS:HB2	1.52	1.05
34:CG:33:MET:HE2	34:CG:37:PRO:HA	1.33	1.04
1:AA:1026:U:H1'	1:AA:1027:A:O5'	1.57	1.04
1:AA:1138:G:H21	9:AM:106:MET:HE3	1.17	1.04
6:AG:67:LYS:HE2	26:A4:6:HIS:CE1	1.91	1.04
1:BA:1332:G:N2	1:BA:1609:A:O2'	1.88	1.04
5:BF:25:PRO:HB3	5:BF:28:ILE:HG13	1.36	1.04
12:BP:66:ILE:HG13	12:BP:67:ARG:H	0.88	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:33:ASN:N	30:B8:36:LYS:HE2	1.69	1.04
31:CA:1263:C:H2'	31:CA:1264:C:H6	1.22	1.04
34:CG:22:LYS:HB2	34:CG:26:CYS:HB2	1.11	1.04
37:DJ:113:GLU:HB2	37:DJ:119:ARG:HG2	1.39	1.04
1:AA:2404:C:H1'	11:AO:67:MET:HE1	1.08	1.04
49:CV:41:VAL:HB	49:CV:42:PRO:HA	1.38	1.04
34:DG:13:ARG:HG2	34:DG:14:ARG:H	0.90	1.04
4:AE:50:GLY:HA2	4:AE:77:ILE:HA	1.39	1.04
5:BF:82:ILE:HD13	5:BF:82:ILE:O	1.54	1.04
1:AA:2210:G:H3'	1:AA:2211:G:C8	1.92	1.04
11:BO:5:ASP:O	11:BO:6:LEU:O	1.74	1.04
11:BO:15:ARG:HH11	11:BO:15:ARG:HG2	1.10	1.04
53:DD:5:G:N2	53:DD:70:C:N3	2.06	1.04
1:BA:2014:A:HO2'	27:B5:2:ALA:N	1.55	1.03
4:BE:52:LEU:H	4:BE:53:PRO:CD	1.70	1.03
11:BO:19:VAL:HG23	11:BO:27:HIS:HB3	1.06	1.03
31:DA:1160:G:H1	31:DA:1177:G:N2	1.54	1.03
1:AA:674:G:H1'	5:AF:74:ARG:HD3	1.39	1.03
12:BP:24:GLY:HA3	12:BP:25:ASP:HB2	1.04	1.03
1:AA:252:G:OP2	11:AO:50:ARG:NH1	1.91	1.03
15:AR:58:ASN:HD22	15:AR:58:ASN:C	1.67	1.03
28:A6:46:HIS:O	28:A6:47:THR:HG23	1.58	1.03
3:BD:35:LYS:HE3	3:BD:64:ILE:C	1.84	1.03
32:CE:16:HIS:HE2	32:CE:213:LEU:HD13	1.19	1.03
34:DG:107:ARG:HH11	34:DG:107:ARG:HG2	1.18	1.03
32:CE:67:THR:HG21	32:CE:155:LEU:HG	1.36	1.03
1:AA:566:U:OP1	11:AO:29:LYS:HE3	1.59	1.02
21:AV:1:MET:HE3	21:AV:135:GLU:HB3	1.37	1.02
1:BA:586:A:H5'	5:BF:89:VAL:HG21	1.03	1.02
5:BF:67:GLN:O	5:BF:67:GLN:HG3	1.56	1.02
31:CA:792:A:H4'	31:CA:793:U:O5'	1.57	1.02
31:CA:975:A:H4'	31:CA:976:G:H5''	1.39	1.02
31:CA:1004:A:H5''	31:CA:1025:U:O4	1.56	1.02
1:AA:885:C:C2	1:AA:890:A:N6	2.27	1.02
1:AA:2311:A:C4	6:AG:80:PHE:CE1	2.47	1.02
4:AE:14:ILE:HG23	4:AE:15:PHE:H	0.89	1.02
6:AG:96:ARG:HH11	6:AG:96:ARG:HG2	1.21	1.02
11:AO:61:ARG:HH21	11:AO:61:ARG:CB	1.73	1.02
12:AP:79:LEU:HD22	12:AP:80:GLU:HG2	1.02	1.02
1:BA:882:G:N2	1:BA:894:C:N3	2.07	1.02
23:BZ:91:LYS:HB2	23:BZ:91:LYS:NZ	1.70	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1160:G:H1	31:CA:1177:G:N2	1.57	1.02
1:AA:906:G:O2'	12:AP:67:ARG:NH2	1.92	1.02
11:BO:64:LYS:HB3	30:B8:25:MET:HG3	1.23	1.02
14:BQ:59:LYS:HD2	14:BQ:60:GLY:H	1.18	1.02
34:DG:13:ARG:CG	34:DG:14:ARG:H	1.71	1.02
5:AF:45:ARG:HH11	5:AF:45:ARG:HG2	1.21	1.02
5:AF:101:LEU:HD12	5:AF:102:PRO:HD2	1.39	1.02
11:BO:61:ARG:HH21	11:BO:61:ARG:CB	1.73	1.02
31:CA:1182:G:H4'	31:CA:1183:A:H5'	1.38	1.02
1:AA:249:C:O2	30:A8:12:LYS:HE3	1.58	1.02
12:AP:66:ILE:CG1	12:AP:67:ARG:H	1.71	1.02
26:A4:16:CYS:HB2	26:A4:36:CYS:H	1.18	1.02
11:BO:62:LEU:HD11	30:B8:30:ARG:NH1	1.59	1.02
12:BP:24:GLY:HA3	12:BP:25:ASP:HB3	1.37	1.02
12:BP:75:THR:CG2	12:BP:87:LYS:HE2	1.90	1.02
17:B2:78:LYS:O	17:B2:79:VAL:HG13	1.60	1.02
1:AA:883:G:H1	1:AA:893:C:N4	1.57	1.01
12:AP:65:PHE:O	12:AP:66:ILE:HG23	1.60	1.01
1:BA:2840:C:H5''	13:B0:53:HIS:CD2	1.95	1.01
3:BD:35:LYS:HD2	3:BD:104:TYR:HD1	1.02	1.01
28:B6:47:THR:HG22	28:B6:47:THR:O	1.59	1.01
30:B8:22:VAL:CG1	30:B8:50:LEU:HD21	1.89	1.01
52:CB:19:G:H4'	52:CB:20:U:OP2	1.60	1.01
1:AA:620:G:H4'	1:AA:621:A:H5''	1.37	1.01
3:AD:35:LYS:HD3	3:AD:63:ARG:HB3	1.40	1.01
4:BE:81:ILE:CG2	4:BE:82:ARG:H	1.73	1.01
12:BP:26:TYR:HD1	12:BP:139:GLU:CG	1.70	1.01
17:B2:70:ILE:O	17:B2:71:LEU:HB2	1.56	1.01
1:BA:946:G:O2'	1:BA:947:G:H5'	1.58	1.01
11:BO:19:VAL:HG23	11:BO:27:HIS:CB	1.89	1.01
17:B2:78:LYS:O	17:B2:79:VAL:HG22	1.60	1.01
31:CA:27:G:H4'	34:CG:209:ARG:HG3	1.41	1.01
1:AA:2473:U:H2'	1:AA:2474:C:H5''	1.42	1.01
11:AO:50:ARG:HH21	11:AO:50:ARG:HG3	0.88	1.01
1:BA:2137:C:H42	1:BA:2154:G:H1	1.02	1.01
11:BO:105:LEU:HD13	11:BO:105:LEU:O	1.61	1.01
6:AG:77:ILE:HG21	6:AG:80:PHE:CZ	1.96	1.01
11:AO:71:VAL:HG12	11:AO:72:PRO:HD3	1.42	1.01
31:CA:1305:G:N2	31:CA:1331:G:H2'	1.75	1.01
42:DO:17:LYS:HD3	42:DO:18:VAL:H	1.23	1.01
43:DP:49:THR:HG22	43:DP:51:ALA:H	1.24	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:64:LYS:HB3	30:A8:25:MET:CG	1.88	1.00
4:BE:37:ARG:HD2	4:BE:80:GLU:OE2	1.61	1.00
11:BO:9:ASN:HB3	11:BO:10:PRO:HD2	1.44	1.00
17:B2:76:LYS:H	17:B2:80:GLN:CG	1.73	1.00
31:CA:1321:C:H3'	31:CA:1322:C:H5''	1.43	1.00
11:AO:50:ARG:NH2	11:AO:50:ARG:HG3	1.68	1.00
12:AP:66:ILE:HD12	12:AP:67:ARG:N	1.76	1.00
30:A8:14:VAL:HG11	30:A8:60:LEU:HD11	1.42	1.00
1:BA:1689:A:N6	1:BA:1698:A:H2	1.58	1.00
4:BE:132:HIS:O	4:BE:133:LYS:HB2	1.60	1.00
31:DA:1004:A:H8	31:DA:1036:G:H22	1.09	1.00
1:AA:960:A:H61	12:AP:83:MET:HE2	1.24	1.00
1:AA:1250:G:N7	11:AO:18:ARG:NH2	2.09	1.00
1:AA:2371:G:O2'	28:A6:46:HIS:CD2	2.14	1.00
3:BD:35:LYS:CD	3:BD:104:TYR:HD1	1.74	1.00
11:BO:62:LEU:HD12	30:B8:30:ARG:HH11	0.83	1.00
31:CA:452:A:OP2	46:CS:43:LYS:NZ	1.95	1.00
32:CE:8:LYS:HE3	32:CE:11:LEU:HB2	1.37	1.00
1:BA:2287:A:H62	1:BA:2344:U:H3	1.04	1.00
34:CG:19:LEU:HD22	34:CG:19:LEU:H	1.23	1.00
1:AA:2211:G:H4'	1:AA:2212:A:OP2	1.57	1.00
1:BA:1022:G:O2'	1:BA:1023:U:OP2	1.80	1.00
1:BA:2068:U:N3	1:BA:2430:A:H2	1.58	1.00
4:AE:23:VAL:HA	4:AE:185:LYS:HA	1.44	1.00
31:CA:748:C:H4'	31:CA:749:C:O5'	1.58	1.00
1:BA:1225:C:O3'	17:B2:85:LYS:HB3	1.59	1.00
4:BE:81:ILE:HG23	4:BE:82:ARG:N	1.74	1.00
39:DL:4:TYR:HB2	39:DL:19:LEU:HB2	1.42	1.00
3:AD:35:LYS:HZ1	3:AD:104:TYR:HB2	1.20	0.99
31:CA:1004:A:N1	31:CA:1024:G:H2'	1.76	0.99
31:DA:503:C:OP2	42:DO:116:SER:HB3	1.62	0.99
26:A4:16:CYS:SG	26:A4:18:CYS:N	2.33	0.99
1:BA:672:C:H2'	1:BA:673:C:H5''	1.42	0.99
33:DF:111:LEU:HD11	33:DF:145:GLY:HA3	1.44	0.99
4:AE:79:ARG:HE	4:AE:79:ARG:CA	1.75	0.99
6:AG:82:LEU:CA	6:AG:86:MET:HE1	1.91	0.99
12:AP:78:PRO:O	12:AP:79:LEU:HB2	1.62	0.99
40:CM:48:THR:HA	40:CM:62:HIS:HB3	1.41	0.99
1:AA:1728:G:H3'	1:AA:1729:A:C5'	1.92	0.99
4:BE:48:GLN:HA	4:BE:80:GLU:HA	1.43	0.99
30:B8:22:VAL:C	30:B8:50:LEU:CD2	2.35	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:153:LYS:HG3	7:AH:162:ILE:H	1.24	0.99
47:CT:76:LEU:HD12	47:CT:77:VAL:H	1.27	0.99
5:BF:82:ILE:HD13	5:BF:82:ILE:C	1.88	0.99
1:AA:2811:G:OP1	4:AE:61:ARG:HG2	1.61	0.99
9:AM:133:GLN:HE21	9:AM:133:GLN:H	1.01	0.99
21:AV:6:LYS:HA	21:AV:60:GLU:HB2	1.45	0.99
1:AA:1287:A:N7	13:A0:107:ASP:HB3	1.76	0.99
1:AA:2415:G:H4'	11:AO:67:MET:H	1.25	0.99
1:BA:389:G:N1	11:BO:71:VAL:HG12	1.77	0.99
5:BF:89:VAL:HG12	5:BF:90:PHE:N	1.77	0.99
40:DM:99:LYS:HD3	40:DM:100:THR:H	1.27	0.99
1:AA:1113:U:H5'	7:AH:2:SER:HB2	1.43	0.99
1:AA:2309:A:C5	1:AA:2310:A:C8	2.48	0.99
6:AG:73:ALA:CB	6:AG:82:LEU:HD21	1.91	0.99
1:AA:2733:A:H2'	1:AA:2734:A:H5''	1.45	0.99
14:BQ:27:SER:OG	14:BQ:88:ASP:OD1	1.79	0.99
1:AA:2371:G:C4'	28:A6:45:LYS:HG3	1.93	0.98
32:DE:42:ILE:HD11	32:DE:202:PRO:HB2	1.43	0.98
1:AA:2635:C:H5''	4:AE:78:LEU:HB2	1.41	0.98
12:BP:19:GLY:H	12:BP:98:LYS:HZ3	1.08	0.98
35:CH:126:ARG:HG3	35:CH:126:ARG:HH11	1.24	0.98
31:DA:1004:A:H5''	31:DA:1025:U:O4	1.61	0.98
5:AF:29:ASN:H	5:AF:112:MET:CE	1.74	0.98
3:AD:35:LYS:HB3	3:AD:63:ARG:HA	1.44	0.98
17:B2:71:LEU:H	17:B2:86:GLY:HA2	0.84	0.98
27:B5:36:CYS:SG	27:B5:49:CYS:HB3	2.03	0.98
30:B8:33:ASN:H	30:B8:36:LYS:CE	1.76	0.98
5:AF:67:GLN:O	5:AF:67:GLN:HG3	1.61	0.98
30:A8:59:LYS:HB2	30:A8:59:LYS:NZ	1.74	0.98
1:AA:2701:C:H3'	1:AA:2702:U:H5''	1.44	0.98
5:AF:29:ASN:H	5:AF:112:MET:HE1	1.22	0.98
14:AQ:14:VAL:O	14:AQ:18:ILE:HD13	1.61	0.98
20:BU:81:LYS:HD3	20:BU:97:ARG:CZ	1.93	0.98
31:DA:1183:A:O2'	31:DA:1184:G:OP1	1.80	0.98
32:DE:137:ARG:HH12	32:DE:140:HIS:HB2	1.26	0.98
11:BO:101:VAL:CG2	11:BO:106:LEU:HD12	1.93	0.98
35:CH:63:ARG:HA	35:CH:66:MET:HE2	1.46	0.98
1:AA:389:G:H1	11:AO:71:VAL:HG12	1.26	0.98
1:AA:607:U:H3	1:AA:621:A:H2	1.01	0.98
1:AA:2468:G:N2	1:AA:2482:G:N7	2.10	0.98
13:B0:37:THR:HG23	13:B0:39:PRO:HD2	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1053:C:H42	1:AA:1106:G:H1	1.02	0.98
28:A6:25:LYS:HD2	30:A8:34:TRP:HE1	1.26	0.98
32:CE:32:ILE:HD11	32:CE:40:HIS:HB3	1.44	0.98
47:CT:77:VAL:O	47:CT:78:GLU:HB2	1.63	0.98
31:DA:1263:C:H42	31:DA:1272:G:H1	1.02	0.98
31:CA:1446:A:OP1	31:CA:1446:A:H4'	1.61	0.97
35:DH:101:ILE:HD11	35:DH:119:LEU:HD23	1.42	0.97
15:AR:16:ARG:HE	15:AR:19:LEU:HD21	1.26	0.97
31:DA:1321:C:N4	31:DA:1322:C:H41	1.62	0.97
3:BD:35:LYS:HE3	3:BD:64:ILE:O	1.63	0.97
5:BF:82:ILE:C	5:BF:82:ILE:CD1	2.37	0.97
31:DA:191:G:O2'	50:DW:103:GLY:HA2	1.64	0.97
31:DA:963:G:N3	40:DM:55:LYS:NZ	2.10	0.97
4:AE:36:ARG:NH2	4:AE:88:GLY:HA2	1.79	0.97
12:AP:64:ILE:HG22	12:AP:65:PHE:H	1.14	0.97
1:BA:586:A:H5'	5:BF:89:VAL:CG2	1.94	0.97
4:BE:25:VAL:HG12	4:BE:26:ILE:H	1.24	0.97
11:BO:79:ARG:NE	11:BO:110:TYR:CE1	2.31	0.97
1:AA:2309:A:C6	1:AA:2310:A:N7	2.33	0.97
3:AD:35:LYS:CD	3:AD:104:TYR:CD1	2.46	0.97
5:AF:178:PRO:HB2	5:AF:201:VAL:HG11	1.45	0.97
7:AH:59:ARG:HG3	7:AH:59:ARG:HH11	1.25	0.97
13:B0:37:THR:HG22	13:B0:40:LYS:H	1.29	0.97
12:AP:79:LEU:HD23	12:AP:80:GLU:H	0.82	0.97
1:BA:2415:G:H4'	11:BO:67:MET:N	1.78	0.97
1:BA:1062:G:H1	1:BA:1076:C:H42	1.11	0.97
1:BA:2807:G:N1	1:BA:2893:G:O6	1.98	0.97
5:BF:46:ARG:HH11	5:BF:46:ARG:HG2	1.26	0.97
31:CA:201:C:H42	31:CA:216:G:H1	1.06	0.97
39:CL:112:LYS:HA	39:CL:119:ALA:HB2	1.45	0.97
4:AE:79:ARG:HA	4:AE:79:ARG:HE	0.80	0.97
11:BO:101:VAL:HG23	11:BO:106:LEU:HD12	0.99	0.97
17:B2:35:LEU:HG	17:B2:37:VAL:HG11	1.43	0.97
23:BZ:87:PRO:HA	23:BZ:90:ILE:HG23	1.44	0.97
30:B8:22:VAL:CG1	30:B8:50:LEU:CD2	2.42	0.97
1:BA:2372:G:H4'	28:B6:46:HIS:CE1	1.99	0.97
12:BP:26:TYR:CE1	12:BP:139:GLU:HB2	1.99	0.97
35:DH:83:GLU:HB3	35:DH:88:LYS:HG3	1.45	0.97
13:A0:100:LEU:HD11	13:A0:113:LEU:HD13	1.47	0.97
28:B6:25:LYS:CD	30:B8:34:TRP:HH2	1.78	0.97
6:AG:161:THR:HG22	6:AG:163:ALA:H	1.30	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:19:VAL:HG23	11:AO:20:GLY:H	1.26	0.96
31:CA:1211:U:H5'	31:CA:1212:U:OP1	1.65	0.96
1:AA:780:G:H21	1:AA:783:A:H62	1.08	0.96
1:AA:2255:G:N2	12:AP:85:LYS:HE2	1.81	0.96
3:AD:182:LEU:O	3:AD:271:ILE:HG12	1.65	0.96
3:BD:186:HIS:HD2	3:BD:188:GLU:H	1.13	0.96
12:BP:78:PRO:O	12:BP:79:LEU:HD12	1.64	0.96
34:CG:12:CYS:HA	34:CG:19:LEU:HD21	1.45	0.96
31:DA:502:G:OP1	42:DO:118:SER:HB3	1.64	0.96
3:AD:270:ILE:HG22	3:AD:271:ILE:H	1.30	0.96
17:B2:76:LYS:H	17:B2:80:GLN:HG2	1.26	0.96
1:AA:2287:A:H62	1:AA:2344:U:H3	1.04	0.96
4:AE:23:VAL:HG12	4:AE:185:LYS:CB	1.92	0.96
6:AG:82:LEU:HD22	6:AG:82:LEU:O	1.66	0.96
1:BA:74:A:H4'	1:BA:75:G:O5'	1.64	0.96
1:BA:483:A:H4'	20:BU:49:VAL:HA	1.47	0.96
5:AF:46:ARG:HH11	5:AF:46:ARG:HG2	1.25	0.96
30:A8:14:VAL:CG1	30:A8:60:LEU:HD11	1.96	0.96
28:B6:45:LYS:HA	28:B6:45:LYS:CE	1.96	0.96
1:BA:138:G:N2	19:BT:44:GLU:OE2	1.98	0.96
1:BA:2420:C:H41	30:B8:31:HIS:HB3	1.28	0.96
12:BP:32:TYR:OH	12:BP:111:GLU:HB2	1.65	0.96
12:BP:66:ILE:HG13	12:BP:67:ARG:N	1.60	0.96
31:DA:168:G:C2'	31:DA:169:C:H5''	1.95	0.96
1:AA:155:C:H42	1:AA:171:G:H1	1.07	0.96
4:AE:201:THR:HG22	4:AE:203:LYS:H	1.31	0.96
1:BA:2275:C:O2'	12:BP:84:GLY:HA3	1.62	0.96
9:BM:97:ARG:HH11	9:BM:97:ARG:HG2	1.28	0.96
12:BP:97:VAL:HG11	12:BP:103:MET:HE3	1.44	0.96
46:DS:8:ARG:HH11	46:DS:8:ARG:HG2	1.27	0.96
1:BA:776:G:H4'	1:BA:777:A:O5'	1.65	0.96
32:CE:96:ARG:HD2	32:CE:96:ARG:H	1.28	0.96
1:AA:2113:U:H5'	1:AA:2114:A:H8	1.28	0.95
1:BA:1138:G:H21	9:BM:106:MET:HE3	1.31	0.95
34:CG:7:PRO:HB2	34:CG:10:ARG:HD2	1.47	0.95
34:DG:30:LYS:HB2	34:DG:35:ARG:HD2	1.45	0.95
1:AA:67:U:H3	1:AA:74:A:H2	1.02	0.95
21:AV:19:ARG:NH1	21:AV:84:GLU:O	1.99	0.95
9:BM:34:LEU:O	9:BM:49:GLY:HA3	1.66	0.95
31:CA:1028(B):C:N4	31:CA:1032(A):G:H1	1.64	0.95
1:AA:1019:U:H3	1:AA:1142(A):A:H62	1.07	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:14:ILE:CG2	4:AE:15:PHE:H	1.73	0.95
11:AO:19:VAL:HG23	11:AO:20:GLY:N	1.79	0.95
17:A2:47:VAL:HG22	17:A2:48:GLY:H	1.29	0.95
17:B2:77:ALA:O	17:B2:78:LYS:HB2	1.65	0.95
16:A1:8:VAL:HG23	16:A1:11:ARG:HH21	1.29	0.95
1:BA:9:U:H3	1:BA:2629:A:N6	1.56	0.95
32:DE:111:ARG:HG2	32:DE:111:ARG:NH1	1.78	0.95
39:DL:28:VAL:HG22	39:DL:63:ILE:HB	1.47	0.95
1:AA:1310:G:OP2	29:A7:9:ARG:NH1	1.99	0.95
12:AP:79:LEU:CD2	12:AP:80:GLU:H	1.78	0.95
19:AT:67:GLY:O	19:AT:69:TYR:N	1.97	0.95
1:BA:84:A:N6	1:BA:102:G:O2'	1.99	0.95
31:DA:1305:G:HO2'	31:DA:1306:A:H8	1.03	0.95
1:AA:1056:G:H21	1:AA:1103:A:H62	0.98	0.95
1:BA:676:A:H8	1:BA:2069:G:H21	1.06	0.95
4:BE:116:VAL:O	4:BE:117:MET:HB3	1.65	0.95
1:AA:2712:U:H5'	1:AA:2712:U:O2	1.66	0.95
4:AE:60:ASN:OD1	4:AE:62:PRO:HG2	1.66	0.95
1:BA:2015:A:C1'	27:B5:2:ALA:CA	2.23	0.95
1:BA:2210:G:H3'	1:BA:2211:G:C5	2.02	0.95
41:CN:79:SER:HB2	41:CN:106:LYS:HD2	1.49	0.95
42:CO:86:ARG:HG3	42:CO:86:ARG:HH11	1.32	0.95
1:AA:2394:C:OP1	11:AO:63:PRO:HD2	1.65	0.95
1:BA:2275:C:HO2'	12:BP:84:GLY:HA3	1.31	0.95
1:AA:259:G:O2'	1:AA:621:A:O2'	1.85	0.95
1:BA:93:C:H5'	1:BA:94:G:OP2	1.67	0.95
1:BA:2394:C:OP1	11:BO:63:PRO:HD2	1.64	0.95
4:BE:51:PHE:CE1	4:BE:52:LEU:CD1	2.50	0.95
12:BP:79:LEU:HD12	12:BP:79:LEU:O	1.67	0.95
24:AW:50:ILE:HD12	24:AW:51:ARG:H	1.28	0.95
1:AA:142:G:H1'	19:AT:37:THR:HG21	1.49	0.94
12:AP:66:ILE:CD1	12:AP:67:ARG:N	2.30	0.94
15:AR:54:ARG:O	15:AR:55:ASN:HB3	1.68	0.94
33:CF:19:GLU:HA	33:CF:54:ARG:HH12	1.28	0.94
4:AE:61:ARG:H	4:AE:62:PRO:CD	1.80	0.94
1:BA:2777:G:H5''	1:BA:2778:A:H5'	1.50	0.94
4:BE:51:PHE:CZ	4:BE:52:LEU:CD1	2.51	0.94
53:CC:17:C:H3'	53:CC:18:C:C5'	1.97	0.94
31:DA:1003:G:H2'	31:DA:1004:A:H5'	1.50	0.94
1:AA:1105:U:H2'	1:AA:1106:G:C8	2.02	0.94
1:AA:1179:C:H2'	1:AA:1180:C:H5''	1.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:61:ARG:NH2	11:BO:61:ARG:CB	2.30	0.94
43:CP:14:ARG:HB2	43:CP:17:VAL:HG23	1.45	0.94
31:DA:992:U:H3	31:DA:1044:A:H62	1.12	0.94
6:AG:67:LYS:HG3	26:A4:6:HIS:CE1	2.02	0.94
12:AP:79:LEU:CD2	12:AP:80:GLU:N	2.30	0.94
1:AA:1689:A:H62	1:AA:1698:A:H2	1.03	0.94
1:BA:674:G:H1'	5:BF:74:ARG:HD3	1.47	0.94
3:BD:35:LYS:CE	3:BD:104:TYR:HB2	1.96	0.94
4:BE:39:PRO:CD	4:BE:45:THR:OG1	2.14	0.94
31:CA:838:G:H1	31:CA:848:C:H42	0.97	0.94
31:DA:1300:G:O2'	31:DA:1301:U:O5'	1.86	0.94
34:DG:13:ARG:C	34:DG:15:GLU:H	1.76	0.94
1:BA:1250:G:N7	11:BO:18:ARG:NH2	2.16	0.94
34:CG:12:CYS:SG	34:CG:19:LEU:HD23	2.07	0.94
31:DA:141:A:H1'	31:DA:182:U:O2	1.68	0.94
1:AA:905:U:H2'	1:AA:906:G:H5''	1.46	0.94
1:AA:953:A:OP2	12:AP:16:ARG:HD3	1.68	0.94
1:AA:1354:A:OP1	3:AD:38:LYS:NZ	2.01	0.94
1:AA:2406:U:O4	11:AO:70:GLN:HB2	1.67	0.94
1:BA:1048:A:H2	1:BA:1112:G:H21	1.16	0.94
1:BA:1300:U:H4'	1:BA:1301:A:C5'	1.98	0.94
28:B6:25:LYS:HB3	30:B8:34:TRP:CZ3	2.03	0.94
50:CW:71:THR:HG22	50:CW:72:LEU:H	1.31	0.94
1:AA:483:A:H4'	20:AU:49:VAL:HA	1.50	0.94
1:AA:1884:A:C2'	1:AA:1885:A:H5''	1.97	0.94
1:AA:2811:G:P	4:AE:61:ARG:HG2	2.08	0.94
12:AP:24:GLY:CA	12:AP:25:ASP:HB2	1.96	0.94
53:CD:5:G:N2	53:CD:70:C:N3	2.16	0.94
53:DC:17:C:H3'	53:DC:18:C:C5'	1.97	0.94
1:AA:1053:C:N4	1:AA:1106:G:H1	1.65	0.93
4:AE:79:ARG:NE	4:AE:79:ARG:CA	2.30	0.93
1:BA:71:A:H3'	1:BA:71:A:OP2	1.69	0.93
31:DA:612:C:O2	31:DA:629:G:N2	2.01	0.93
31:DA:1004:A:H2	31:DA:1024:G:C8	1.86	0.93
23:AZ:85:LEU:C	23:AZ:87:PRO:CD	2.41	0.93
40:DM:79:ARG:O	40:DM:83:GLU:HB2	1.67	0.93
45:DR:87:ILE:HG22	45:DR:88:ARG:H	1.31	0.93
19:AT:49:VAL:HG11	19:AT:83:VAL:HG22	1.50	0.93
31:DA:1139:G:H22	31:DA:1143:G:H1	1.01	0.93
1:AA:1359:A:N1	1:AA:1372:U:N3	2.16	0.93
1:AA:1728:G:H3'	1:AA:1729:A:H5'	1.47	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:61:ARG:HD2	4:AE:61:ARG:N	1.77	0.93
31:CA:820:U:H4'	31:CA:821:G:OP2	1.68	0.93
34:DG:24:GLU:OE2	34:DG:24:GLU:N	2.01	0.93
1:AA:1026:U:H4'	1:AA:1027:A:OP1	1.64	0.93
1:AA:1778:U:H2'	1:AA:1784:A:N6	1.83	0.93
1:AA:2404:C:C1'	11:AO:67:MET:HE1	1.97	0.93
31:CA:382:A:H2'	31:CA:383:A:C8	2.04	0.93
34:DG:108:LEU:HD21	34:DG:183:GLY:HA3	1.48	0.93
37:DJ:78:ARG:CZ	37:DJ:80:VAL:HB	1.99	0.93
2:AB:40:U:H1'	2:AB:45:A:H61	1.33	0.93
5:AF:103:LYS:HA	5:AF:106:ARG:HG3	1.48	0.93
2:BB:3:C:H42	2:BB:117:G:H1	0.94	0.93
4:BE:51:PHE:HA	4:BE:52:LEU:CB	1.98	0.93
11:AO:61:ARG:O	11:AO:62:LEU:HD23	1.68	0.93
1:AA:2251:G:OP1	12:AP:82:ARG:NH1	2.02	0.93
3:AD:43:ARG:NH1	3:AD:44:ASN:OD1	2.01	0.93
6:AG:82:LEU:HA	6:AG:86:MET:CE	1.99	0.93
1:BA:226:G:H21	1:BA:228:A:H62	1.14	0.93
9:BM:42:TRP:HA	9:BM:48:MET:CE	1.98	0.93
11:BO:62:LEU:CD1	30:B8:30:ARG:CD	2.46	0.93
11:BO:62:LEU:HD13	30:B8:30:ARG:CD	1.96	0.93
14:BQ:87:PHE:CE1	14:BQ:102:ALA:HB2	2.04	0.93
31:DA:64:G:H4'	31:DA:65:U:O5'	1.68	0.93
32:DE:236:TYR:HA	32:DE:239:VAL:HB	1.50	0.93
1:AA:363(B):G:H2'	1:AA:363(C):G:H8	1.32	0.93
1:AA:594:U:H5'	30:A8:61:LEU:HD13	1.47	0.93
1:AA:1024:G:H3'	1:AA:1025:G:H5''	1.51	0.93
1:AA:2137:C:H42	1:AA:2154:G:H1	1.02	0.93
4:BE:48:GLN:O	4:BE:49:LEU:HG	1.68	0.93
17:B2:76:LYS:HG2	17:B2:80:GLN:CG	1.98	0.93
23:BZ:92:LYS:HE3	23:BZ:97:LEU:HG	1.47	0.93
1:AA:819:A:OP2	1:AA:1187:G:N2	2.01	0.92
1:BA:2872:G:C4	1:BA:2873:A:N1	2.36	0.92
1:BA:945:A:C4	1:BA:2448:A:C2	2.56	0.92
1:BA:1826:G:H4'	3:BD:242:ARG:HH21	1.32	0.92
12:BP:32:TYR:OH	12:BP:111:GLU:HB3	1.67	0.92
31:CA:836:G:OP1	48:CU:61:LYS:NZ	2.00	0.92
28:B6:25:LYS:HD2	30:B8:34:TRP:HH2	1.35	0.92
1:BA:1012:U:O4	9:BM:25:ARG:HA	1.70	0.92
1:BA:2681:C:H6	1:BA:2683:C:H41	1.15	0.92
12:BP:32:TYR:CZ	12:BP:111:GLU:HB2	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:827:U:H5	31:CA:872:A:N1	1.65	0.92
1:BA:943:U:OP2	11:BO:36:LYS:HG3	1.68	0.92
28:B6:27:LYS:HZ3	28:B6:28:ARG:HH12	1.08	0.92
31:CA:156:G:H1	31:CA:165:C:H42	1.16	0.92
1:AA:1077:A:H3'	1:AA:1078:U:C5'	1.98	0.92
12:AP:66:ILE:CG1	12:AP:67:ARG:N	2.30	0.92
21:AV:72:ARG:NH2	21:AV:97:GLU:O	2.00	0.92
23:AZ:41:ARG:HH11	23:AZ:41:ARG:HG3	1.34	0.92
1:AA:1533:C:H42	1:AA:1538:G:H1	1.08	0.92
4:AE:111:ARG:HD2	4:AE:160:TYR:CE1	2.05	0.92
7:AH:151:ILE:O	7:AH:153:LYS:CD	2.18	0.92
11:AO:15:ARG:HG2	11:AO:15:ARG:NH1	1.77	0.92
31:DA:1127:G:N3	31:DA:1147:C:N4	2.17	0.92
5:BF:24:LEU:HD12	5:BF:25:PRO:HD3	1.50	0.92
34:CG:22:LYS:HB2	34:CG:26:CYS:CB	1.99	0.92
1:AA:847:U:O4	1:AA:933:A:N1	2.02	0.92
3:AD:35:LYS:HD2	3:AD:104:TYR:CE1	2.05	0.92
1:BA:946:G:H2'	1:BA:947:G:H8	1.34	0.92
1:BA:1111:A:H4'	7:BH:3:ARG:HD3	1.52	0.92
53:CD:6:G:N2	53:CD:69:C:N3	2.18	0.92
9:AM:56:ASN:N	9:AM:125:GLY:O	2.02	0.92
21:BV:60:GLU:HA	21:BV:66:SER:HA	1.50	0.92
31:CA:1277:C:HO2'	31:CA:1279:A:H8	1.12	0.92
3:AD:35:LYS:HD2	3:AD:104:TYR:HD1	1.24	0.91
3:AD:72:LYS:HB3	3:AD:75:ILE:HD12	1.49	0.91
11:BO:61:ARG:O	11:BO:62:LEU:HD23	1.68	0.91
15:BR:74:ARG:HG2	15:BR:74:ARG:NH1	1.75	0.91
31:DA:279:A:H5''	31:DA:280:C:H3'	1.49	0.91
12:AP:19:GLY:O	12:AP:98:LYS:HD3	1.69	0.91
32:CE:204:ASN:ND2	32:CE:206:ASP:H	1.68	0.91
30:A8:52:LYS:N	30:A8:53:PRO:HD2	1.85	0.91
14:BQ:86:ALA:O	14:BQ:87:PHE:HB2	1.70	0.91
32:DE:19:HIS:CE1	32:DE:204:ASN:HB3	2.05	0.91
4:AE:48:GLN:HE22	4:AE:77:ILE:HD12	1.35	0.91
11:AO:50:ARG:HH21	11:AO:50:ARG:CG	1.79	0.91
26:A4:62:ARG:O	26:A4:66:SER:HA	1.70	0.91
11:BO:15:ARG:HG2	11:BO:15:ARG:NH1	1.76	0.91
45:DR:26:GLU:OE2	45:DR:77:ARG:NH1	2.03	0.91
1:AA:2068:U:N3	1:AA:2430:A:H2	1.69	0.91
1:AA:2656:U:H3	1:AA:2665:A:H2	1.19	0.91
17:B2:76:LYS:HG2	17:B2:80:GLN:CD	1.95	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BS:9:TYR:H	18:BS:102:HIS:HD2	1.18	0.91
31:DA:452:A:O2'	31:DA:453:A:O4'	1.87	0.91
33:DF:84:ILE:HD11	33:DF:88:ARG:HH21	1.32	0.91
48:DU:53:ARG:HH21	48:DU:60:ALA:N	1.69	0.91
11:AO:19:VAL:CG2	11:AO:20:GLY:N	2.34	0.91
1:BA:528:A:H2	1:BA:2043:C:H5'	1.36	0.91
1:BA:1728:G:N1	1:BA:1730:U:OP2	2.03	0.91
1:BA:2311:A:O2'	1:BA:2312:U:H5'	1.71	0.91
1:BA:2795:G:H3'	1:BA:2797:U:H5''	1.53	0.91
2:BB:83:G:H1	2:BB:93:C:H42	1.12	0.91
3:BD:35:LYS:CG	3:BD:64:ILE:H	1.84	0.91
17:B2:71:LEU:H	17:B2:86:GLY:HA3	1.34	0.91
27:B5:4:HIS:HB3	27:B5:5:PRO:HD2	1.49	0.91
1:AA:860:U:H5	1:AA:917:A:C2	1.87	0.91
15:AR:74:ARG:HG2	15:AR:74:ARG:NH1	1.82	0.91
1:BA:945:A:C5	1:BA:2448:A:C2	2.58	0.91
1:BA:1420:U:O2'	1:BA:1421:G:OP1	1.88	0.91
31:CA:1004:A:H1'	31:CA:1036:G:C6	2.06	0.91
4:AE:23:VAL:CG1	4:AE:184:VAL:O	2.19	0.91
24:AW:50:ILE:HD12	24:AW:51:ARG:N	1.84	0.91
1:BA:138:G:H22	19:BT:44:GLU:CD	1.79	0.91
1:BA:2583:G:H21	52:DB:87:A:H8	0.91	0.91
4:BE:52:LEU:N	4:BE:53:PRO:HD2	1.85	0.91
1:AA:654(G):C:O2	1:AA:654(N):G:N1	2.04	0.91
2:BB:66:A:H61	2:BB:108:C:H5''	1.36	0.91
31:CA:1128:C:HO2'	31:CA:1130:A:H8	0.96	0.91
34:CG:65:ARG:NH1	34:CG:70:ILE:O	2.03	0.91
40:CM:61:GLU:OE1	44:CQ:58:LYS:HE2	1.68	0.91
42:DO:41:ARG:HH11	42:DO:41:ARG:HB3	1.34	0.91
1:AA:811:U:C2'	11:AO:21:ARG:O	2.20	0.90
31:DA:345:C:H1'	31:DA:346:G:C2	2.07	0.90
31:DA:560:U:O2'	31:DA:561:U:OP2	1.89	0.90
31:DA:1255:G:OP1	40:DM:45:ARG:NH1	2.03	0.90
1:AA:907:U:H5'	12:AP:23:GLY:O	1.69	0.90
1:AA:1240:U:O2'	1:AA:1241:A:H5'	1.70	0.90
1:AA:1496:A:H8	1:AA:1577:C:HO2'	0.92	0.90
9:AM:137:LYS:HG3	9:AM:138:LEU:H	1.37	0.90
13:A0:33:ARG:NH2	27:A5:55:ARG:HG2	1.86	0.90
1:BA:885:C:C4	1:BA:890:A:N6	2.39	0.90
1:BA:2872:G:C5	1:BA:2873:A:N1	2.39	0.90
3:BD:65:ILE:HD11	3:BD:67:PHE:CE2	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BV:175:VAL:O	21:BV:177:PRO:HD3	1.70	0.90
27:B5:4:HIS:CB	27:B5:5:PRO:HD2	2.00	0.90
31:CA:686:U:O2'	31:CA:687:A:O5'	1.87	0.90
31:CA:789:U:H5	31:CA:792:A:OP2	1.54	0.90
31:CA:1497:G:H2'	31:CA:1498:U:H5'	1.53	0.90
49:DV:22:LEU:O	49:DV:27:GLU:HA	1.71	0.90
1:AA:2583:G:H21	52:CB:87:A:H8	0.93	0.90
11:AO:61:ARG:NH2	11:AO:61:ARG:CB	2.30	0.90
12:AP:110:THR:HG23	12:AP:113:GLN:OE1	1.71	0.90
28:A6:44:ARG:C	28:A6:45:LYS:HD2	1.96	0.90
7:BH:117:PRO:HB3	7:BH:123:PHE:CE1	2.05	0.90
31:CA:1145:C:H5''	31:CA:1146:A:OP1	1.70	0.90
50:CW:100:ILE:HG13	50:CW:102:GLY:H	1.33	0.90
31:DA:1322:C:O2'	31:DA:1323:G:H5'	1.71	0.90
35:DH:91:LEU:HD12	35:DH:120:THR:HG22	1.50	0.90
1:AA:330:A:O2'	1:AA:331:A:H8	1.53	0.90
26:A4:50:VAL:HG11	43:CP:65:LYS:HB3	1.54	0.90
29:A7:8:ASN:HD21	29:A7:11:LYS:H	1.12	0.90
17:B2:78:LYS:C	17:B2:79:VAL:HG22	1.95	0.90
12:AP:65:PHE:C	12:AP:66:ILE:HG23	1.95	0.90
39:CL:45:ALA:O	39:CL:78:LYS:NZ	2.04	0.90
1:AA:2210:G:H3'	1:AA:2211:G:N7	1.86	0.90
20:BU:76:CYS:O	20:BU:78:ALA:N	2.04	0.90
21:BV:69:THR:HG22	21:BV:90:VAL:HA	1.52	0.90
3:AD:65:ILE:HD11	3:AD:67:PHE:CE2	2.07	0.90
1:BA:1359:A:H62	1:BA:1372:U:H3	1.14	0.90
1:BA:1729:A:O2'	1:BA:1731:G:N2	2.04	0.90
1:BA:2748:A:N7	1:BA:2754:U:O4	2.04	0.90
4:BE:81:ILE:CG2	4:BE:82:ARG:N	2.30	0.90
41:CN:40:ILE:HG22	41:CN:75:TYR:HD2	1.36	0.90
1:AA:1803:A:H4'	3:AD:259:THR:CG2	2.02	0.90
6:AG:81:LYS:O	6:AG:82:LEU:HB3	1.71	0.90
13:A0:34:ILE:HG22	13:A0:114:VAL:HB	1.54	0.90
50:CW:33:ILE:O	50:CW:37:SER:OG	1.90	0.90
14:BQ:88:ASP:O	14:BQ:89:ARG:HB3	1.71	0.89
31:CA:1003:G:H2'	31:CA:1004:A:H5'	1.53	0.89
4:AE:59:VAL:C	4:AE:60:ASN:ND2	2.30	0.89
12:AP:68:ILE:CD1	12:AP:103:MET:HG2	2.03	0.89
1:BA:774:A:H2	1:BA:787:U:HO2'	0.95	0.89
31:CA:1025:U:O2'	31:CA:1026:G:O5'	1.89	0.89
31:CA:1286:A:H5''	51:CX:26:LYS:HD2	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1330:U:H4'	43:DP:23:TYR:CE2	2.07	0.89
50:DW:89:ARG:NH1	50:DW:105:SER:OG	2.05	0.89
6:AG:27:ASN:HB3	6:AG:30:GLU:HG3	1.51	0.89
17:A2:15:GLU:HG3	17:A2:16:PRO:HD2	1.54	0.89
31:CA:827:U:H5''	31:CA:828:A:OP2	1.71	0.89
36:CI:101:ALA:HB2	48:CU:28:GLU:HG2	1.53	0.89
31:DA:362:G:O2'	42:DO:33:ARG:NH2	2.05	0.89
3:AD:35:LYS:CD	3:AD:104:TYR:HD1	1.83	0.89
11:AO:9:ASN:HB3	11:AO:10:PRO:CD	2.02	0.89
2:BB:3:C:N4	2:BB:117:G:H1	1.70	0.89
38:CK:87:SER:HB2	38:CK:93:VAL:HB	1.52	0.89
54:D1:13:U:H2'	54:D1:13:U:O2	1.70	0.89
1:AA:2068:U:H3	1:AA:2430:A:H2	0.92	0.89
1:AA:2317:C:H2'	1:AA:2318:G:C5'	2.02	0.89
4:AE:18:ASP:O	4:AE:19:ARG:O	1.90	0.89
5:BF:31:HIS:CG	11:BO:9:ASN:OD1	2.26	0.89
11:BO:65:ARG:HG3	11:BO:65:ARG:NH1	1.79	0.89
15:BR:54:ARG:HA	15:BR:59:THR:HB	1.52	0.89
15:BR:93:ARG:HG2	15:BR:117:ASP:HB3	1.54	0.89
28:B6:52:VAL:HG22	28:B6:53:LYS:H	1.38	0.89
31:DA:1263:C:N4	31:DA:1272:G:H1	1.69	0.89
35:DH:57:LYS:HG2	35:DH:61:TYR:HE2	1.36	0.89
1:AA:74:A:H4'	1:AA:75:G:O5'	1.71	0.89
1:AA:873:G:H1	1:AA:904:C:H42	1.18	0.89
1:BA:9:U:C2	1:BA:2629:A:N6	2.41	0.89
31:CA:1285:A:H4'	31:CA:1286:A:O5'	1.70	0.89
31:DA:632:A:H1'	31:DA:633:G:OP2	1.72	0.89
1:AA:654(G):C:N3	1:AA:654(N):G:O6	2.06	0.89
1:BA:1021:A:H61	1:BA:1142(A):A:H61	1.19	0.89
4:BE:12:THR:HG22	15:BR:58:ASN:HD21	1.33	0.89
31:CA:992:U:H4'	31:CA:993:G:O5'	1.71	0.89
32:DE:82:ARG:HA	32:DE:92:TYR:HE1	1.38	0.89
1:AA:993:G:OP1	16:A1:50:ARG:NH2	2.06	0.89
1:AA:1689:A:N6	1:AA:1698:A:H2	1.70	0.89
1:AA:2310:A:H3'	1:AA:2310:A:N3	1.88	0.89
4:BE:36:ARG:HH21	4:BE:88:GLY:HA3	1.38	0.89
10:BN:49:ARG:HD3	10:BN:49:ARG:H	1.35	0.89
32:DE:185:ILE:HG22	32:DE:199:TYR:HB2	1.53	0.89
1:AA:889:C:H3'	1:AA:890:A:H4'	1.55	0.89
2:BB:39:A:N6	26:B4:1:MET:HB3	1.88	0.89
4:BE:44:TYR:H	4:BE:44:TYR:HD1	1.17	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:87:SER:HB2	38:CK:93:VAL:CB	2.02	0.89
3:AD:35:LYS:HD3	3:AD:63:ARG:CB	2.02	0.89
18:AS:58:ALA:HB1	18:AS:64:MET:HG3	1.55	0.89
1:BA:946:G:O2'	1:BA:947:G:C5'	2.20	0.89
1:BA:1140:C:H1'	1:BA:1143:A:H8	1.36	0.89
1:AA:389:G:N1	11:AO:71:VAL:HG12	1.86	0.88
1:AA:1479:G:N7	1:AA:1510:A:N6	2.20	0.88
1:AA:2371:G:C4'	28:A6:45:LYS:CG	2.49	0.88
12:AP:75:THR:CB	12:AP:88:GLY:HA3	2.04	0.88
3:BD:91:ARG:HH11	3:BD:91:ARG:HG2	1.38	0.88
5:BF:84:VAL:C	5:BF:86:GLY:H	1.74	0.88
10:BN:2:ILE:HD12	10:BN:6:THR:HG21	1.54	0.88
17:B2:72:VAL:O	17:B2:73:SER:HB3	1.72	0.88
31:CA:523:A:H61	42:CO:89:ASP:HB2	1.35	0.88
31:CA:1502:A:H2	31:CA:1505:G:H22	1.17	0.88
4:AE:1:MET:HB3	4:AE:200:GLU:OE1	1.73	0.88
33:CF:126:ARG:HH11	33:CF:126:ARG:HG3	1.37	0.88
42:DO:84:LEU:HD12	42:DO:104:VAL:HG11	1.55	0.88
1:BA:1226:G:OP1	17:B2:85:LYS:HB2	1.73	0.88
4:BE:151:TYR:HD2	4:BE:154:LYS:NZ	1.71	0.88
41:CN:91:ARG:HH11	41:CN:91:ARG:HG3	1.38	0.88
1:AA:1210:A:H5'	1:AA:1210:A:H8	1.35	0.88
1:AA:1533:C:N4	1:AA:1538:G:H1	1.72	0.88
5:AF:205:ARG:HG3	5:AF:205:ARG:HH11	1.37	0.88
1:BA:672:C:H2'	1:BA:673:C:C5'	2.02	0.88
1:BA:2880:C:H1'	13:B0:92:GLY:HA3	1.55	0.88
3:BD:43:ARG:HH11	3:BD:44:ASN:HD21	1.19	0.88
34:CG:22:LYS:CB	34:CG:26:CYS:HB2	2.01	0.88
45:CR:39:LEU:HD13	45:CR:56:LEU:HB2	1.55	0.88
33:DF:164:ARG:NH1	33:DF:166:GLU:OE1	2.05	0.88
16:A1:92:ARG:O	16:A1:94:ASN:N	2.06	0.88
31:DA:328:C:H2'	31:DA:328:C:O2	1.70	0.88
3:BD:28:GLU:HB3	3:BD:29:PRO:HD2	1.56	0.88
5:BF:155:LEU:HD23	5:BF:186:ILE:HD13	1.54	0.88
29:B7:8:ASN:ND2	29:B7:11:LYS:H	1.71	0.88
33:DF:35:GLU:HG3	33:DF:38:ARG:HH21	1.38	0.88
4:AE:61:ARG:N	4:AE:62:PRO:CD	2.37	0.88
10:AN:68:GLU:OE2	10:AN:78:ARG:NH1	2.06	0.88
25:AX:10:LYS:NZ	25:AX:15:TYR:OH	2.05	0.88
20:BU:87:LYS:HB3	20:BU:92:ASN:HB3	1.56	0.88
24:BW:70:GLN:HG2	24:BW:71:ASN:H	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:55:ASP:HA	47:CT:79:SER:HA	1.53	0.88
31:DA:1321:C:H41	31:DA:1322:C:H41	1.09	0.88
46:DS:8:ARG:HH11	46:DS:8:ARG:CG	1.85	0.88
5:BF:89:VAL:CG1	5:BF:90:PHE:H	1.84	0.88
31:CA:1263:C:H2'	31:CA:1264:C:C6	2.09	0.88
34:CG:5:ILE:HG22	34:CG:6:GLY:H	1.39	0.88
9:AM:42:TRP:HA	9:AM:48:MET:HE1	1.53	0.88
1:BA:545:G:H21	1:BA:548:A:H62	1.22	0.88
2:BB:74:U:H2'	2:BB:75:G:C5'	2.03	0.88
26:B4:61:ARG:HG3	26:B4:62:ARG:HH21	1.38	0.88
1:AA:882:G:H2'	1:AA:883:G:C8	2.07	0.88
18:AS:9:TYR:H	18:AS:102:HIS:HD2	1.21	0.88
1:BA:2404:C:H1'	11:BO:67:MET:CE	2.04	0.88
12:BP:3:MET:HB2	12:BP:93:TYR:CD1	2.09	0.88
31:CA:611:A:H61	31:CA:629:G:H1	1.19	0.88
47:CT:67:LYS:HA	47:CT:70:ARG:HH12	1.38	0.88
4:AE:54:GLN:NE2	4:AE:54:GLN:HA	1.88	0.87
9:AM:47:ALA:HB2	9:AM:112:LEU:HD11	1.56	0.87
4:BE:52:LEU:N	4:BE:53:PRO:CD	2.30	0.87
1:AA:654(M):C:H2'	1:AA:654(N):G:C8	2.09	0.87
4:AE:36:ARG:HH22	4:AE:88:GLY:HA2	1.35	0.87
5:AF:101:LEU:HD12	5:AF:102:PRO:CD	2.03	0.87
11:AO:65:ARG:HG3	11:AO:65:ARG:NH1	1.79	0.87
1:BA:1405:U:H2'	1:BA:1406:U:C6	2.08	0.87
16:B1:59:ARG:O	16:B1:63:VAL:HG23	1.74	0.87
41:DN:29:ILE:HG22	41:DN:44:SER:HB2	1.54	0.87
31:CA:1132:C:H2'	31:CA:1133:G:C8	2.09	0.87
31:DA:975:A:C4'	31:DA:976:G:H5''	2.02	0.87
1:AA:2427:C:H5''	1:AA:2428:G:OP1	1.75	0.87
27:A5:33:CYS:SG	27:A5:40:LYS:NZ	2.47	0.87
12:BP:69:PHE:CD1	12:BP:70:PRO:HD2	2.09	0.87
31:DA:1352:C:OP1	51:DX:3:LYS:NZ	2.06	0.87
1:AA:1138:G:N2	9:AM:106:MET:HE3	1.90	0.87
12:AP:66:ILE:HG13	12:AP:67:ARG:N	1.88	0.87
4:BE:56:PRO:HG3	4:BE:57:LYS:HZ3	1.36	0.87
10:BN:68:GLU:HB3	10:BN:78:ARG:HH11	1.39	0.87
31:DA:812:C:H1'	31:DA:813:U:OP2	1.74	0.87
1:BA:2583:G:N2	52:DB:87:A:H8	1.73	0.87
31:DA:1025:U:O2'	31:DA:1026:G:O4'	1.92	0.87
1:AA:774:A:H2	1:AA:787:U:HO2'	0.90	0.87
4:AE:61:ARG:CD	4:AE:61:ARG:N	2.36	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:1:MET:HE3	11:AO:5:ASP:HB3	1.53	0.87
1:BA:1496:A:H8	1:BA:1577:C:O2'	1.57	0.87
8:BK:7:GLU:HA	8:BK:15:VAL:HG22	1.56	0.87
31:CA:1004:A:H1'	31:CA:1036:G:N1	1.90	0.87
43:CP:57:ARG:HB2	43:CP:57:ARG:HH11	1.38	0.87
31:DA:1277:C:HO2'	31:DA:1279:A:H8	0.90	0.87
31:DA:1443:G:H3'	31:DA:1446:A:H5''	1.54	0.87
54:D1:14:U:OP1	54:D1:14:U:H4'	1.73	0.87
3:BD:44:ASN:CB	3:BD:49:ILE:HA	2.05	0.87
31:CA:838:G:H1	31:CA:848:C:N4	1.71	0.87
31:CA:1124:G:H3'	31:CA:1145:C:H41	1.40	0.87
36:CI:24:GLU:HG2	36:CI:28:ARG:NH2	1.90	0.87
1:AA:860:U:H5	1:AA:917:A:H2	1.20	0.87
4:AE:60:ASN:C	4:AE:61:ARG:CD	2.47	0.87
1:BA:1323:U:H2'	1:BA:1324:G:H5'	1.56	0.87
21:BV:175:VAL:CG2	21:BV:176:PRO:HD3	2.04	0.87
31:CA:1346:A:H5''	39:CL:120:ARG:NH1	1.90	0.87
1:BA:819:A:OP2	1:BA:1187:G:N2	2.07	0.86
1:BA:2318:G:H1	14:BQ:2:ALA:HA	1.39	0.86
11:BO:50:ARG:HG3	30:B8:59:LYS:HD3	1.56	0.86
31:CA:255:G:H1'	47:CT:16:GLN:HE21	1.38	0.86
1:BA:287:C:H2'	1:BA:288:C:H6	1.37	0.86
4:BE:12:THR:O	4:BE:23:VAL:HG22	1.74	0.86
11:BO:64:LYS:HB2	30:B8:25:MET:HG3	1.55	0.86
11:BO:106:LEU:HD22	11:BO:106:LEU:O	1.75	0.86
31:CA:560:U:O2'	31:CA:561:U:OP2	1.92	0.86
37:CJ:62:PHE:HD1	37:CJ:124:LEU:HD21	1.38	0.86
31:DA:1321:C:H41	31:DA:1322:C:N4	1.72	0.86
31:DA:1330:U:H4'	43:DP:23:TYR:HE2	1.38	0.86
1:AA:593:G:H1'	30:A8:4:MET:HE1	1.57	0.86
1:AA:1864:U:H2'	1:AA:1869:G:H5''	1.57	0.86
21:AV:61:LEU:O	21:AV:64:GLY:HA2	1.75	0.86
28:A6:41:PRO:HD2	28:A6:46:HIS:N	1.89	0.86
1:BA:2415:G:C4'	11:BO:67:MET:H	1.89	0.86
11:AO:21:ARG:HA	11:AO:21:ARG:NE	1.90	0.86
12:BP:30:GLY:HA3	12:BP:107:ALA:HB2	1.54	0.86
12:BP:59:ARG:O	12:BP:60:ARG:HB2	1.76	0.86
26:B4:56:VAL:HA	26:B4:60:GLN:HE21	1.40	0.86
28:B6:11:LEU:HD23	28:B6:26:ASN:HB3	1.58	0.86
1:AA:762:U:H4'	1:AA:763:G:O5'	1.75	0.86
1:AA:2723:C:OP1	13:A0:3:HIS:HD2	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:3:ARG:HB3	15:AR:7:ILE:HG13	1.55	0.86
26:A4:59:PHE:O	26:A4:63:TYR:HB2	1.74	0.86
29:B7:19:ARG:HH11	29:B7:19:ARG:HG2	1.39	0.86
6:AG:72:ARG:HH21	6:AG:87:PRO:HD3	1.41	0.86
7:AH:4:ILE:HG13	7:AH:6:ARG:NE	1.89	0.86
1:BA:259:G:H21	1:BA:621:A:H8	1.22	0.86
11:BO:81:GLN:HB3	11:BO:106:LEU:CD2	2.05	0.86
35:DH:142:LEU:O	35:DH:143:ARG:NE	2.09	0.86
4:AE:14:ILE:CG2	4:AE:21:VAL:HG13	2.05	0.86
1:BA:322:A:H3'	5:BF:169:ASN:HD21	1.41	0.86
1:BA:2415:G:O3'	11:BO:66:GLY:HA3	1.74	0.86
4:BE:51:PHE:CB	4:BE:52:LEU:HB3	2.06	0.86
17:B2:44:LYS:O	17:B2:46:VAL:N	2.07	0.86
31:DA:1305:G:H22	31:DA:1331:G:H2'	1.39	0.86
1:AA:2311:A:H3'	1:AA:2312:U:C5	2.11	0.86
7:AH:151:ILE:O	7:AH:153:LYS:HD2	1.74	0.86
27:A5:40:LYS:HZ2	27:A5:46:CYS:HB3	1.40	0.86
6:BG:161:THR:HG22	6:BG:163:ALA:H	1.41	0.86
12:BP:24:GLY:CA	12:BP:25:ASP:HB2	1.97	0.86
31:CA:1077:G:N2	31:CA:1080:A:OP2	2.08	0.86
31:DA:421:U:H5''	31:DA:422:C:OP2	1.74	0.86
32:DE:16:HIS:HD2	32:DE:209:ARG:HB3	1.39	0.86
11:AO:71:VAL:HG13	11:AO:72:PRO:CD	2.06	0.86
15:BR:62:THR:HG22	15:BR:75:ILE:HG12	1.56	0.86
31:CA:686:U:H1'	41:CN:42:TRP:HE1	1.38	0.86
31:DA:1002:G:H2'	31:DA:1003:G:C8	2.11	0.86
31:DA:1305:G:O2'	31:DA:1306:A:O5'	1.94	0.86
11:AO:50:ARG:HD3	30:A8:7:HIS:CD2	2.11	0.86
1:BA:1459:G:H2'	1:BA:1460:A:H5'	1.57	0.86
34:CG:33:MET:CE	34:CG:37:PRO:HA	2.04	0.86
7:AH:10:PRO:HD2	7:AH:50:VAL:O	1.76	0.85
13:A0:33:ARG:HG3	13:A0:115:GLU:HB3	1.54	0.85
22:B3:38:VAL:HG12	22:B3:40:GLN:HG2	1.56	0.85
28:B6:44:ARG:C	28:B6:45:LYS:HD2	2.00	0.85
1:AA:2113:U:H5'	1:AA:2114:A:C8	2.10	0.85
4:AE:59:VAL:HG21	4:AE:73:GLU:HB3	1.57	0.85
30:B8:52:LYS:N	30:B8:53:PRO:CD	2.35	0.85
45:CR:87:ILE:HG22	45:CR:88:ARG:N	1.88	0.85
1:AA:821:A:O2'	1:AA:945:A:H3'	1.76	0.85
3:AD:35:LYS:HE3	3:AD:64:ILE:C	1.99	0.85
23:AZ:85:LEU:O	23:AZ:87:PRO:N	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:37:ARG:HD3	4:BE:44:TYR:HH	1.06	0.85
31:CA:1348:U:H4'	39:CL:120:ARG:HD2	1.57	0.85
42:DO:60:LEU:HB2	42:DO:64:TYR:HB2	1.57	0.85
3:AD:182:LEU:H	3:AD:272:ALA:HB3	1.42	0.85
5:AF:184:TYR:O	5:AF:188:ARG:HG3	1.75	0.85
27:A5:40:LYS:HG2	27:A5:47:PRO:HD2	1.56	0.85
3:BD:35:LYS:NZ	3:BD:104:TYR:H	1.74	0.85
53:DD:15:G:N2	53:DD:49:C:O2	2.08	0.85
1:AA:1332:G:N2	1:AA:1609:A:O2'	2.10	0.85
15:AR:58:ASN:C	15:AR:58:ASN:ND2	2.30	0.85
15:BR:26:ASP:CB	15:BR:91:ARG:HA	2.06	0.85
26:B4:20:ASN:CG	26:B4:21:VAL:H	1.83	0.85
28:B6:15:GLU:HG2	28:B6:47:THR:HG21	1.56	0.85
40:CM:8:LEU:HD12	40:CM:20:ALA:HB2	1.58	0.85
12:AP:64:ILE:O	12:AP:65:PHE:CG	2.30	0.85
12:AP:64:ILE:CG2	12:AP:65:PHE:N	2.37	0.85
1:BA:1057:A:N1	1:BA:1081:U:O4	2.09	0.85
12:BP:11:LYS:HD3	12:BP:87:LYS:HG2	1.59	0.85
16:B1:61:TRP:O	16:B1:65:ILE:HD13	1.77	0.85
27:B5:3:LYS:HE3	27:B5:3:LYS:HA	0.87	0.85
28:B6:48:VAL:HG13	28:B6:49:HIS:H	0.71	0.85
31:CA:1128:C:O2'	31:CA:1130:A:H8	1.59	0.85
33:CF:64:VAL:HG23	33:CF:99:VAL:HA	1.57	0.85
49:DV:67:VAL:HG12	49:DV:68:GLY:H	1.40	0.85
17:A2:35:LEU:HD22	17:A2:35:LEU:H	1.40	0.85
1:BA:864:G:C6	1:BA:865:C:N4	2.44	0.85
12:BP:79:LEU:HD12	12:BP:79:LEU:C	2.02	0.85
31:CA:1034:G:H2'	31:CA:1035:A:C8	2.12	0.85
31:DA:631:G:H3'	31:DA:632:A:C8	2.11	0.85
1:AA:518:G:H4'	18:AS:18:ARG:NH1	1.92	0.85
1:AA:2829:C:H2'	1:AA:2830:G:H5''	1.57	0.85
9:AM:131:GLN:NE2	9:AM:132:ALA:H	1.75	0.85
1:BA:1464:C:HO2'	1:BA:1528:A:H8	0.88	0.85
4:BE:39:PRO:HD3	4:BE:45:THR:HG1	1.37	0.85
5:BF:178:PRO:HB2	5:BF:201:VAL:HG11	1.59	0.85
1:AA:271(B):G:H4'	1:AA:271(C):U:O5'	1.76	0.85
4:AE:23:VAL:CG1	4:AE:184:VAL:C	2.48	0.85
1:BA:1141:U:H2'	9:BM:63:THR:HG21	1.59	0.85
31:DA:353:A:H5'	31:DA:353:A:H8	1.42	0.85
32:DE:231:GLU:HB3	32:DE:232:PRO:CD	2.05	0.85
1:AA:620:G:H4'	1:AA:621:A:C5'	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:14:ILE:HG21	4:AE:21:VAL:HG13	1.59	0.85
11:AO:31:ALA:O	11:AO:32:THR:HG22	1.77	0.85
11:AO:71:VAL:HG13	11:AO:72:PRO:HD3	1.55	0.85
28:B6:44:ARG:O	28:B6:45:LYS:HB2	1.76	0.85
31:CA:793:U:H3'	31:CA:794:A:H5''	1.57	0.85
31:CA:1004:A:H8	31:CA:1036:G:H1	1.23	0.85
32:CE:14:GLY:HA3	32:CE:209:ARG:HH21	1.41	0.85
42:DO:46:LYS:HZ2	42:DO:47:LYS:HD3	1.42	0.85
14:AQ:27:SER:HA	14:AQ:88:ASP:HB3	1.59	0.84
15:AR:74:ARG:HH11	15:AR:74:ARG:CG	1.87	0.84
1:BA:273(D):C:H42	1:BA:363(B):G:H1	1.20	0.84
1:BA:1188:U:C2'	1:BA:1189:A:H5'	2.07	0.84
3:BD:43:ARG:NH1	3:BD:44:ASN:HD21	1.74	0.84
17:B2:80:GLN:HA	17:B2:80:GLN:NE2	1.88	0.84
31:CA:1028(B):C:N3	31:CA:1032(A):G:N2	2.25	0.84
47:CT:52:LYS:HE2	47:CT:79:SER:OG	1.77	0.84
47:CT:76:LEU:CD1	47:CT:78:GLU:H	1.89	0.84
49:CV:65:ASN:HD22	49:CV:65:ASN:H	1.20	0.84
31:DA:1003:G:C2'	31:DA:1004:A:H5'	2.07	0.84
1:BA:1252:G:N3	16:B1:33:ARG:HD2	1.91	0.84
4:BE:80:GLU:O	4:BE:81:ILE:HB	1.77	0.84
17:B2:80:GLN:O	17:B2:81:TYR:CD1	2.30	0.84
31:CA:974:A:O2'	31:CA:975:A:OP2	1.93	0.84
31:CA:1003:G:C2'	31:CA:1004:A:H5'	2.07	0.84
32:CE:141:GLU:O	32:CE:145:LEU:HB2	1.77	0.84
7:AH:4:ILE:HB	7:AH:6:ARG:HG3	1.59	0.84
8:AK:102:SER:O	8:AK:106:GLY:HA2	1.78	0.84
1:BA:654(B):C:H2'	1:BA:654(C):G:C8	2.12	0.84
5:BF:51:THR:HG21	5:BF:92:PRO:HD2	1.57	0.84
7:BH:137:ASP:HB2	7:BH:140:LYS:HE2	1.58	0.84
12:BP:65:PHE:O	12:BP:66:ILE:HG13	1.77	0.84
17:B2:35:LEU:O	17:B2:37:VAL:HG22	1.77	0.84
31:CA:664:G:H22	31:CA:741:G:H1	1.23	0.84
44:DQ:13:THR:N	44:DQ:14:PRO:HD3	1.93	0.84
7:AH:4:ILE:HD11	7:AH:7:LEU:HD11	1.56	0.84
16:A1:112:ARG:HH11	16:A1:112:ARG:CG	1.90	0.84
1:BA:1496:A:H8	1:BA:1577:C:HO2'	0.87	0.84
12:BP:75:THR:HB	12:BP:88:GLY:HA3	1.58	0.84
14:BQ:26:LEU:O	14:BQ:88:ASP:N	2.08	0.84
31:CA:129(A):G:C2	31:CA:188:U:O2'	2.30	0.84
45:DR:17:ARG:HH11	45:DR:17:ARG:CG	1.89	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1264:G:H5'	27:A5:11:THR:HG21	1.58	0.84
1:AA:2062:A:N3	1:AA:2062:A:H2'	1.93	0.84
1:AA:2756:U:H4'	1:AA:2757:A:OP1	1.75	0.84
3:AD:96:HIS:CD2	3:AD:102:LYS:HE2	2.13	0.84
7:AH:92:ILE:H	7:AH:92:ILE:HD12	1.40	0.84
17:A2:47:VAL:CG2	17:A2:48:GLY:H	1.89	0.84
28:A6:15:GLU:HG2	28:A6:16:CYS:H	1.42	0.84
1:BA:1689:A:N6	1:BA:1698:A:C2	2.39	0.84
1:BA:2406:U:O4	11:BO:70:GLN:HB2	1.78	0.84
1:BA:2571:C:H5'	1:BA:2572:A:C5'	2.08	0.84
4:BE:51:PHE:CE2	4:BE:52:LEU:HD12	2.11	0.84
9:BM:97:ARG:HH11	9:BM:97:ARG:CG	1.89	0.84
20:BU:96:ILE:HG12	20:BU:101:LYS:HG3	1.58	0.84
28:B6:25:LYS:CE	30:B8:34:TRP:HH2	1.90	0.84
31:DA:1305:G:H5'	51:DX:4:GLY:HA3	1.59	0.84
53:DC:62:C:H2'	53:DC:63:C:H6	1.43	0.84
15:AR:16:ARG:NE	15:AR:19:LEU:HD21	1.91	0.84
15:BR:13:ARG:HD3	15:BR:13:ARG:H	1.42	0.84
3:AD:27:THR:O	3:AD:28:GLU:HB2	1.75	0.84
4:BE:81:ILE:HG23	4:BE:82:ARG:H	1.37	0.84
5:BF:153:SER:OG	5:BF:190:GLU:HG3	1.78	0.84
31:DA:363:A:N7	42:DO:33:ARG:NH1	2.26	0.84
1:AA:1535:U:H3'	1:AA:1536:A:H5''	1.60	0.84
1:BA:2580:U:H4'	4:BE:130:GLY:HA3	1.59	0.84
17:B2:75:PHE:O	17:B2:75:PHE:CD1	2.30	0.84
26:B4:18:CYS:SG	26:B4:19:GLY:HA2	2.18	0.84
37:DJ:16:LEU:HD12	39:DL:42:ARG:HA	1.58	0.84
1:AA:1191:G:OP1	11:AO:32:THR:OG1	1.96	0.84
4:AE:23:VAL:CA	4:AE:185:LYS:HA	2.07	0.84
1:BA:2420:C:H41	30:B8:31:HIS:CB	1.89	0.84
40:CM:55:LYS:NZ	40:CM:55:LYS:HB3	1.93	0.84
31:DA:1131:G:H2'	31:DA:1132:C:H6	1.42	0.84
31:DA:1133:G:H2'	31:DA:1134:G:H8	1.42	0.84
1:AA:309:G:N3	1:AA:329:G:O2'	2.10	0.84
7:AH:86:GLU:CD	7:AH:86:GLU:H	1.80	0.84
1:BA:2795:G:H3'	1:BA:2797:U:C5'	2.06	0.84
31:DA:686:U:H1'	41:DN:42:TRP:HE1	1.43	0.84
6:AG:67:LYS:HE2	26:A4:6:HIS:HE1	1.38	0.83
6:AG:82:LEU:HD22	6:AG:82:LEU:C	2.02	0.83
26:B4:21:VAL:HG22	26:B4:22:ILE:H	1.41	0.83
34:CG:170:VAL:HG22	34:CG:171:GLY:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:965:A:C2	31:DA:969:A:C2	2.66	0.83
1:AA:2635:C:H5''	4:AE:78:LEU:CB	2.07	0.83
18:AS:18:ARG:HG2	18:AS:76:VAL:HG13	1.60	0.83
1:BA:2015:A:O4'	27:B5:2:ALA:HB2	1.78	0.83
4:BE:51:PHE:CE1	4:BE:52:LEU:HD12	2.13	0.83
15:BR:56:GLY:O	15:BR:59:THR:HG23	1.77	0.83
31:CA:1053:G:C5'	31:CA:1054:C:H5'	2.07	0.83
31:DA:345:C:O2'	31:DA:346:G:O5'	1.95	0.83
31:DA:1191:A:P	33:DF:3:ASN:HD21	2.01	0.83
4:AE:78:LEU:HG	4:AE:79:ARG:N	1.91	0.83
6:AG:129:GLY:HA2	6:AG:166:ASP:HB3	1.61	0.83
30:B8:22:VAL:CA	30:B8:50:LEU:HD23	2.08	0.83
40:CM:55:LYS:HB3	40:CM:55:LYS:HZ3	1.43	0.83
47:CT:76:LEU:HD12	47:CT:77:VAL:N	1.93	0.83
12:AP:66:ILE:HD12	12:AP:67:ARG:C	2.02	0.83
17:B2:44:LYS:C	17:B2:46:VAL:H	1.86	0.83
31:CA:1004:A:C5'	31:CA:1025:U:O4	2.26	0.83
35:CH:74:GLY:O	35:CH:115:VAL:HA	1.77	0.83
52:DB:31:C:O2	52:DB:41:G:N2	2.11	0.83
7:AH:64:LEU:O	7:AH:68:THR:OG1	1.94	0.83
10:AN:107:ARG:NH1	15:AR:36:GLU:OE2	2.11	0.83
1:BA:1827:C:OP2	3:BD:222:ARG:NH1	2.11	0.83
3:BD:242:ARG:HD2	3:BD:242:ARG:N	1.92	0.83
25:BX:29:ARG:H	25:BX:33:GLN:HE22	1.24	0.83
28:B6:45:LYS:HE3	28:B6:45:LYS:CA	2.06	0.83
53:CD:15:G:N2	53:CD:49:C:O2	2.09	0.83
1:AA:1899:G:N2	1:AA:1902:C:C5	2.47	0.83
5:AF:127:GLU:OE2	5:AF:127:GLU:HA	1.75	0.83
17:A2:59:ALA:HB2	17:A2:96:ILE:HD13	1.59	0.83
1:BA:885:C:N4	1:BA:890:A:H62	1.77	0.83
1:BA:2137:C:N4	1:BA:2154:G:H1	1.75	0.83
1:BA:2422:A:H4'	1:BA:2423:U:OP1	1.77	0.83
28:B6:17:LYS:HB2	28:B6:44:ARG:HH22	1.42	0.83
1:AA:873:G:H1	1:AA:904:C:N4	1.77	0.83
1:AA:2298:A:H62	1:AA:2318:G:H8	1.27	0.83
1:AA:2346:A:H5''	1:AA:2383:G:O4'	1.79	0.83
8:AK:92:VAL:HG13	8:AK:120:ILE:HG23	1.61	0.83
1:BA:654(C):G:H2'	1:BA:654(D):G:O4'	1.79	0.83
1:BA:1858:G:O2'	1:BA:1884:A:N6	2.12	0.83
1:BA:1899:G:N2	1:BA:1902:C:C5	2.47	0.83
17:B2:76:LYS:N	17:B2:80:GLN:HG2	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:142:G:H1	31:DA:221:C:H42	1.24	0.83
34:DG:107:ARG:HH11	34:DG:107:ARG:CG	1.92	0.83
1:BA:1332:G:N2	1:BA:1609:A:HO2'	1.76	0.83
1:BA:2404:C:C1'	11:BO:67:MET:HE1	2.07	0.83
30:B8:22:VAL:O	30:B8:50:LEU:HD22	1.79	0.83
53:CD:19:G:H1'	53:CD:59:A:C2	2.14	0.83
1:AA:2137:C:N4	1:AA:2154:G:H1	1.76	0.83
3:AD:270:ILE:O	3:AD:271:ILE:HG23	1.78	0.83
4:AE:51:PHE:CD1	4:AE:52:LEU:HG	2.13	0.83
1:BA:6:A:H4'	9:BM:129:PRO:HB2	1.60	0.83
30:B8:51:ALA:CA	30:B8:53:PRO:HD2	2.09	0.83
40:CM:48:THR:HG23	40:CM:62:HIS:ND1	1.93	0.83
43:CP:13:LYS:O	43:CP:44:ARG:NH1	2.10	0.83
31:DA:186:C:H1'	50:DW:81:LYS:NZ	1.93	0.83
31:DA:509:A:O2'	31:DA:510:A:OP1	1.97	0.83
49:DV:9:VAL:HG11	49:DV:11:VAL:HG12	1.61	0.83
3:AD:35:LYS:HG2	3:AD:64:ILE:H	1.43	0.83
1:BA:712:G:H1	1:BA:719:C:H42	1.26	0.83
12:BP:62:GLY:O	12:BP:63:LYS:HB2	1.78	0.83
6:AG:121:ASN:HD22	6:AG:123:ASN:H	1.24	0.82
7:AH:46:GLU:OE1	7:AH:51:ARG:NH1	2.12	0.82
14:AQ:11:LYS:HD3	14:AQ:91:PRO:HD3	1.60	0.82
20:AU:76:CYS:SG	20:AU:77:PRO:HD3	2.18	0.82
26:A4:63:TYR:CE1	49:CV:42:PRO:HD3	2.12	0.82
1:BA:511:U:H3'	1:BA:512:G:H5''	1.59	0.82
3:BD:96:HIS:CE1	3:BD:102:LYS:HD3	2.14	0.82
28:B6:25:LYS:CB	30:B8:34:TRP:CH2	2.61	0.82
31:CA:60:A:H4'	31:CA:61:G:H5'	1.61	0.82
31:CA:1160:G:N1	31:CA:1177:G:N2	2.26	0.82
40:CM:50:ILE:HD11	40:CM:57:LYS:HD2	1.61	0.82
53:CC:17:C:C3'	53:CC:18:C:H5''	2.04	0.82
33:DF:111:LEU:HD21	33:DF:146:ALA:H	1.45	0.82
1:AA:900:A:H5'	1:AA:901:A:OP2	1.79	0.82
18:AS:29:LEU:HD21	18:AS:33:ARG:CZ	2.09	0.82
2:BB:42:C:O2	6:BG:93:THR:N	2.10	0.82
4:BE:51:PHE:CA	4:BE:52:LEU:CB	2.57	0.82
5:BF:157:VAL:HB	5:BF:194:MET:HB3	1.61	0.82
31:DA:1004:A:C2	31:DA:1024:G:C8	2.66	0.82
3:AD:34:VAL:HG22	3:AD:35:LYS:HG3	1.60	0.82
1:BA:2392:A:H2	1:BA:2424:C:H42	1.23	0.82
41:CN:78:GLN:O	41:CN:103:LEU:HA	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CR:38:ARG:HH11	45:CR:38:ARG:HG2	1.43	0.82
1:AA:155:C:N4	1:AA:171:G:H1	1.77	0.82
4:AE:61:ARG:H	4:AE:62:PRO:HD3	1.42	0.82
1:BA:607:U:H3	1:BA:621:A:H2	1.27	0.82
4:BE:48:GLN:O	4:BE:49:LEU:CG	2.27	0.82
11:BO:80:TYR:CE1	11:BO:111:ARG:HG2	2.14	0.82
31:CA:538:G:H5''	42:CO:111:LYS:HB2	1.58	0.82
31:CA:1160:G:O6	31:CA:1181:G:O6	1.98	0.82
31:CA:1175:G:H2'	31:CA:1176:A:C8	2.14	0.82
31:DA:421:U:H2'	31:DA:421:U:O2	1.78	0.82
31:DA:750:G:N3	45:DR:23:GLY:HA3	1.92	0.82
1:AA:1478:G:H2'	1:AA:1479:G:H8	1.43	0.82
1:BA:1678:G:H22	1:BA:1989:G:H22	1.25	0.82
30:B8:30:ARG:O	30:B8:31:HIS:HB2	1.76	0.82
7:AH:11:VAL:HB	7:AH:12:PRO:HD2	1.59	0.82
9:AM:133:GLN:H	9:AM:133:GLN:NE2	1.78	0.82
1:BA:2210:G:H3'	1:BA:2211:G:C4	2.14	0.82
3:BD:69:ARG:NH2	3:BD:128:GLY:O	2.12	0.82
1:AA:370:G:H4'	1:AA:371:A:OP2	1.79	0.82
1:AA:1869:G:H8	1:AA:1869:G:H5'	1.42	0.82
28:A6:45:LYS:HA	28:A6:45:LYS:HE3	1.59	0.82
1:BA:885:C:N4	1:BA:890:A:N6	2.26	0.82
2:BB:75:G:H8	2:BB:75:G:H5'	1.42	0.82
31:CA:201:C:N4	31:CA:216:G:H1	1.78	0.82
1:BA:9:U:N3	1:BA:2629:A:C6	2.46	0.82
1:BA:1537:C:H2'	1:BA:1538:G:C8	2.14	0.82
33:CF:20:SER:HB3	33:CF:40:ARG:HH22	1.44	0.82
31:DA:600:C:H2'	31:DA:601:C:H6	1.43	0.82
1:AA:2285:C:OP1	28:A6:28:ARG:HD3	1.80	0.82
1:AA:2733:A:C2'	1:AA:2734:A:H5''	2.09	0.82
20:AU:96:ILE:HG23	20:AU:101:LYS:HG2	1.59	0.82
1:BA:1012:U:C2	1:BA:1143:A:C2	2.68	0.82
37:CJ:23:VAL:HG12	37:CJ:43:PHE:HE2	1.45	0.82
1:AA:2772:C:H5'	4:AE:168:MET:HE3	1.59	0.82
9:AM:97:ARG:HA	9:AM:100:GLU:HB2	1.61	0.82
11:AO:64:LYS:CB	30:A8:25:MET:CG	2.53	0.82
11:AO:64:LYS:CD	30:A8:25:MET:SD	2.68	0.82
15:AR:93:ARG:HH11	15:AR:93:ARG:HG3	1.43	0.82
7:BH:152:ARG:CZ	7:BH:153:LYS:HG2	2.10	0.82
21:BV:128:VAL:HG22	21:BV:129:SER:H	1.43	0.82
46:CS:53:VAL:HG12	46:CS:79:VAL:HG22	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1292:U:H2'	31:DA:1293:G:C8	2.15	0.82
1:AA:856:C:H2'	1:AA:857:C:H6	1.45	0.81
4:AE:13:ARG:HH11	4:AE:13:ARG:CB	1.93	0.81
6:AG:64:THR:HG23	6:AG:66:GLN:H	1.43	0.81
13:B0:37:THR:HG22	13:B0:40:LYS:HB2	1.61	0.81
33:CF:181:ASN:ND2	33:CF:204:LEU:HB2	1.94	0.81
1:AA:860:U:C5	1:AA:917:A:H2	1.98	0.81
1:BA:1310:G:OP2	29:B7:9:ARG:NH1	2.12	0.81
6:BG:37:VAL:O	6:BG:94:LEU:HD23	1.80	0.81
17:B2:87:HIS:O	17:B2:87:HIS:CG	2.31	0.81
20:BU:13:VAL:CG2	20:BU:72:VAL:HB	2.09	0.81
43:CP:13:LYS:O	43:CP:44:ARG:HD2	1.81	0.81
45:DR:24:SER:HB3	45:DR:27:VAL:HG23	1.62	0.81
1:AA:2815:C:H5'	27:A5:29:THR:HG21	1.60	0.81
4:AE:16:ARG:O	4:AE:16:ARG:HG3	1.79	0.81
9:AM:34:LEU:HD21	9:AM:120:LEU:HB2	1.62	0.81
23:AZ:86:SER:N	23:AZ:87:PRO:HD2	1.94	0.81
1:BA:1022:G:H22	1:BA:1142(A):A:H2	1.27	0.81
3:BD:166:GLN:HA	3:BD:166:GLN:NE2	1.93	0.81
17:B2:80:GLN:O	17:B2:81:TYR:CG	2.32	0.81
30:B8:33:ASN:N	30:B8:36:LYS:CE	2.37	0.81
31:CA:677:U:H3	31:CA:713:G:H22	1.29	0.81
32:CE:8:LYS:HE2	32:CE:8:LYS:H	1.46	0.81
33:CF:40:ARG:O	33:CF:44:GLU:HG2	1.79	0.81
35:CH:8:GLU:OE1	35:CH:63:ARG:NH2	2.12	0.81
31:DA:173:U:H5''	31:DA:197:A:O4'	1.79	0.81
31:DA:448:A:P	31:DA:485:G:H22	2.03	0.81
34:DG:139:ARG:HH11	34:DG:139:ARG:CG	1.94	0.81
37:DJ:20:ASP:HB3	37:DJ:23:VAL:HG23	1.62	0.81
40:DM:22:LYS:HD2	40:DM:26:ALA:HB2	1.62	0.81
1:AA:2790:A:H1'	1:AA:2893:G:O2'	1.80	0.81
27:A5:4:HIS:HB3	27:A5:5:PRO:HD3	1.60	0.81
3:BD:43:ARG:HH11	3:BD:44:ASN:ND2	1.79	0.81
5:BF:34:TRP:CZ3	11:BO:8:PRO:HB3	2.15	0.81
19:BT:60:ARG:HH11	19:BT:60:ARG:CG	1.93	0.81
31:CA:105:G:H2'	31:CA:106:C:C6	2.16	0.81
53:DC:17:C:C3'	53:DC:18:C:H5''	2.07	0.81
1:BA:910:A:H62	12:BP:12:GLN:HA	1.46	0.81
1:BA:1257:C:H4'	5:BF:83:PHE:CD2	2.15	0.81
1:BA:1819:A:H4'	1:BA:1820:U:O5'	1.80	0.81
3:BD:35:LYS:HB3	3:BD:63:ARG:HA	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B2:71:LEU:N	17:B2:86:GLY:HA3	1.90	0.81
24:BW:41:ILE:HD11	24:BW:44:LEU:HG	1.62	0.81
26:B4:1:MET:C	26:B4:2:LYS:HD3	2.05	0.81
32:CE:204:ASN:HD22	32:CE:206:ASP:H	1.29	0.81
32:DE:16:HIS:CE1	32:DE:213:LEU:HD13	2.16	0.81
45:DR:87:ILE:HG22	45:DR:88:ARG:N	1.96	0.81
50:DW:64:ASP:OD1	50:DW:81:LYS:HD2	1.81	0.81
1:AA:654(A):A:H2	1:AA:654(T):A:N1	1.79	0.81
3:AD:166:GLN:HE21	3:AD:166:GLN:HA	1.45	0.81
9:AM:96:GLU:O	9:AM:97:ARG:HB2	1.80	0.81
1:BA:309:G:N3	1:BA:329:G:O2'	2.14	0.81
1:BA:708:C:H42	1:BA:723:G:H1	1.27	0.81
12:BP:26:TYR:HD1	12:BP:139:GLU:HG2	1.25	0.81
12:BP:66:ILE:O	12:BP:67:ARG:HB2	1.79	0.81
13:B0:24:GLN:HE22	13:B0:36:THR:HG21	1.44	0.81
15:BR:90:GLN:HE21	15:BR:91:ARG:H	1.26	0.81
31:CA:530:G:H4'	31:CA:531:U:OP2	1.79	0.81
41:CN:99:GLN:HE21	41:CN:105:VAL:HG21	1.45	0.81
31:DA:1497:G:H2'	31:DA:1498:U:H5'	1.60	0.81
31:DA:1502:A:H2	31:DA:1505:G:H1	1.26	0.81
39:DL:114:TYR:HE1	40:DM:60:ARG:O	1.63	0.81
1:AA:847:U:C4	1:AA:933:A:N1	2.48	0.81
1:AA:1404:C:O2'	1:AA:1405:U:H5'	1.81	0.81
1:AA:2688:U:H5	1:AA:2720:U:OP2	1.64	0.81
9:AM:46:VAL:CG1	9:AM:48:MET:HG3	2.11	0.81
1:BA:2872:G:C8	1:BA:2873:A:C2	2.69	0.81
4:BE:47:VAL:O	4:BE:80:GLU:HA	1.80	0.81
25:BX:59:VAL:HG12	25:BX:60:GLU:H	1.46	0.81
31:CA:87:A:H4'	31:CA:87:A:OP1	1.79	0.81
31:DA:328:C:O2'	31:DA:329:A:OP2	1.97	0.81
31:DA:1176:A:N6	31:DA:1177:G:C6	2.49	0.81
32:DE:233:SER:HB3	32:DE:234:PRO:HD2	1.63	0.81
37:DJ:16:LEU:HD11	39:DL:45:ALA:HB2	1.63	0.81
8:AK:131:LYS:HB3	8:AK:132:PRO:HA	1.62	0.81
19:AT:84:ALA:HB1	19:AT:85:PRO:HD2	1.61	0.81
21:AV:111:VAL:HG11	21:AV:146:ILE:HB	1.62	0.81
1:BA:1416:G:O2'	1:BA:1417:C:O5'	1.97	0.81
1:BA:2125:G:N2	1:BA:2172:U:O5'	2.14	0.81
4:BE:56:PRO:HG3	4:BE:57:LYS:HZ1	1.41	0.81
12:BP:24:GLY:CA	12:BP:25:ASP:HB3	2.05	0.81
1:AA:287:C:H2'	1:AA:288:C:H6	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:105:VAL:HG22	21:AV:106:GLY:H	1.44	0.81
28:A6:25:LYS:HZ3	28:A6:27:LYS:HD3	1.46	0.81
1:BA:2015:A:H1'	27:B5:2:ALA:N	1.95	0.81
12:BP:30:GLY:HA2	12:BP:107:ALA:HB2	1.60	0.81
31:CA:254:G:OP1	47:CT:67:LYS:O	1.99	0.81
31:DA:209:U:H4'	31:DA:210:U:OP2	1.79	0.81
15:AR:64:ARG:HB2	15:AR:73:GLU:HG2	1.61	0.81
1:BA:1057:A:H2	1:BA:1081:U:H3	1.25	0.81
4:BE:79:ARG:HH11	4:BE:79:ARG:CG	1.94	0.81
19:BT:60:ARG:HH11	19:BT:60:ARG:HG3	1.43	0.81
1:AA:67:U:N3	1:AA:74:A:H2	1.78	0.80
4:AE:116:VAL:O	4:AE:117:MET:HB3	1.81	0.80
6:AG:96:ARG:HH11	6:AG:96:ARG:CG	1.94	0.80
9:AM:13:TRP:O	9:AM:135:PRO:HD2	1.82	0.80
11:AO:71:VAL:CG1	11:AO:72:PRO:CD	2.58	0.80
8:BK:144:VAL:HG22	8:BK:145:VAL:HG23	1.60	0.80
31:CA:1036:G:H5'	31:CA:1037:C:OP2	1.81	0.80
31:DA:273:A:H2'	31:DA:274:A:H5'	1.61	0.80
31:DA:1160:G:O6	31:DA:1181:G:C6	2.34	0.80
32:DE:168:THR:HG23	32:DE:192:SER:HB3	1.62	0.80
49:DV:20:LEU:O	49:DV:23:ASN:HB3	1.82	0.80
1:BA:609(A):G:N2	1:BA:619:G:H1'	1.96	0.80
14:BQ:27:SER:CB	14:BQ:88:ASP:OD1	2.28	0.80
31:CA:1028(B):C:H42	31:CA:1032(A):G:H1	1.22	0.80
41:CN:57:THR:HG22	41:CN:59:TYR:H	1.45	0.80
52:CB:37:G:H1	54:C1:19:U:H3	1.29	0.80
4:AE:4:ILE:HD13	4:AE:28:ALA:HB1	1.63	0.80
14:AQ:83:LYS:O	14:AQ:109:GLY:HA2	1.81	0.80
1:BA:2191:G:O2'	1:BA:2192:G:OP1	2.00	0.80
5:BF:101:LEU:O	5:BF:106:ARG:NH1	2.14	0.80
28:B6:15:GLU:CG	28:B6:47:THR:HG21	2.11	0.80
31:CA:1004:A:H8	31:CA:1036:G:N1	1.79	0.80
31:DA:1128:C:H5''	39:DL:16:ARG:HH22	1.44	0.80
31:DA:1129:C:C4	31:DA:1139:G:C2	2.69	0.80
32:DE:17:PHE:HE2	32:DE:44:LEU:HA	1.46	0.80
9:AM:59:LYS:HE3	9:AM:61:ARG:HH12	1.45	0.80
15:AR:105:LEU:O	15:AR:107:ASP:OD1	2.00	0.80
17:A2:44:LYS:CG	17:A2:45:THR:H	1.95	0.80
1:BA:2210:G:H4'	1:BA:2211:G:OP2	1.82	0.80
1:BA:2467:C:H4'	12:BP:123:HIS:CD2	2.17	0.80
16:B1:17:ILE:HD12	16:B1:32:PHE:HE2	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AZ:78:LYS:O	23:AZ:78:LYS:HD2	1.82	0.80
3:BD:27:THR:HG21	3:BD:83:GLU:CG	2.10	0.80
6:BG:83:ARG:O	6:BG:86:MET:HB2	1.81	0.80
12:BP:59:ARG:HG2	12:BP:59:ARG:HH21	1.46	0.80
17:B2:76:LYS:CB	17:B2:80:GLN:CB	2.30	0.80
31:CA:1004:A:H8	31:CA:1036:G:H22	1.29	0.80
1:AA:1864:U:C2'	1:AA:1869:G:H5''	2.11	0.80
12:AP:64:ILE:O	12:AP:65:PHE:CD2	2.34	0.80
23:AZ:92:LYS:HA	23:AZ:95:LEU:HB2	1.63	0.80
28:A6:46:HIS:O	28:A6:47:THR:CG2	2.30	0.80
1:BA:1141:U:OP2	9:BM:63:THR:OG1	1.99	0.80
1:BA:2372:G:C4'	28:B6:46:HIS:CE1	2.65	0.80
30:B8:22:VAL:O	30:B8:50:LEU:CD2	2.30	0.80
32:CE:60:ASP:HB3	32:CE:64:ARG:NH1	1.96	0.80
33:CF:95:THR:HG22	33:CF:97:LYS:H	1.46	0.80
1:AA:1388:G:O2'	1:AA:1389:G:H5'	1.81	0.80
1:AA:1885:A:H5'	1:AA:1885:A:H8	1.47	0.80
12:AP:66:ILE:O	12:AP:67:ARG:HB2	1.79	0.80
1:BA:1652:A:H62	13:B0:11:ASN:HD21	1.28	0.80
1:BA:2019:A:N7	27:B5:9:LYS:HE3	1.96	0.80
12:BP:90:VAL:O	12:BP:90:VAL:CG1	2.30	0.80
17:B2:82:ARG:CG	17:B2:82:ARG:HH11	1.95	0.80
19:BT:51:VAL:H	19:BT:83:VAL:HG23	1.46	0.80
31:DA:254:G:OP1	47:DT:67:LYS:O	1.98	0.80
1:AA:1188:U:H4'	17:A2:79:VAL:HG22	1.64	0.80
1:AA:1786:A:H2	1:AA:2606:C:H1'	1.47	0.80
16:A1:92:ARG:NH1	17:A2:11:GLN:O	2.14	0.80
1:BA:958:U:OP2	12:BP:14:ARG:NH1	2.14	0.80
1:BA:2438:U:O3'	1:BA:2439:A:H3'	1.82	0.80
7:BH:4:ILE:HG13	7:BH:6:ARG:HG2	1.63	0.80
7:BH:102:ALA:HB1	7:BH:115:VAL:O	1.82	0.80
12:BP:79:LEU:C	12:BP:79:LEU:CD1	2.54	0.80
15:BR:50:ILE:HD11	15:BR:102:ILE:HD11	1.64	0.80
21:BV:157:LEU:HB3	21:BV:161:VAL:HG12	1.64	0.80
27:B5:16:ARG:HG2	27:B5:16:ARG:NH1	1.87	0.80
31:DA:1346:A:H1'	31:DA:1347:G:OP2	1.82	0.80
49:DV:9:VAL:CG1	49:DV:11:VAL:HG12	2.12	0.80
1:AA:2394:C:P	11:AO:62:LEU:HB2	2.22	0.80
8:AK:2:LYS:HB2	8:AK:39:ALA:HB2	1.64	0.80
12:AP:21:THR:O	12:AP:21:THR:CG2	2.30	0.80
8:BK:4:ILE:HG12	8:BK:18:VAL:HG22	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:50:ARG:HG3	11:BO:50:ARG:HH21	1.47	0.80
37:CJ:22:LEU:HD23	37:CJ:62:PHE:HE2	1.46	0.80
31:DA:748:C:H4'	31:DA:749:C:O5'	1.79	0.80
39:DL:53:VAL:HG13	39:DL:95:LYS:HE3	1.62	0.80
4:AE:14:ILE:O	4:AE:15:PHE:HB2	1.80	0.80
9:AM:115:ARG:O	9:AM:118:LYS:N	2.15	0.80
1:BA:1056:G:H5''	1:BA:1057:A:H5'	1.64	0.80
5:BF:116:ASP:OD2	11:BO:1:MET:N	2.14	0.80
11:BO:9:ASN:HB3	11:BO:10:PRO:CD	2.12	0.80
20:BU:97:ARG:HH21	20:BU:98:VAL:HB	1.44	0.80
43:DP:80:ARG:NH1	49:DV:66:MET:SD	2.55	0.80
1:AA:1728:G:H8	1:AA:1732:A:H62	1.30	0.79
1:AA:2219:G:H2'	1:AA:2224:G:H5'	1.62	0.79
1:AA:2371:G:O4'	28:A6:45:LYS:HG3	1.80	0.79
4:AE:22:PRO:O	4:AE:23:VAL:CG1	2.30	0.79
22:A3:23:VAL:HG13	22:A3:38:VAL:HG23	1.63	0.79
2:BB:40:U:O2	2:BB:45:A:N6	2.15	0.79
11:BO:101:VAL:CG2	11:BO:106:LEU:CD1	2.56	0.79
17:B2:76:LYS:CG	17:B2:80:GLN:HB2	2.12	0.79
41:CN:40:ILE:HG22	41:CN:75:TYR:CD2	2.16	0.79
43:CP:3:ARG:HD3	43:CP:7:VAL:HG13	1.61	0.79
33:DF:117:ALA:HB2	33:DF:200:ALA:HB2	1.64	0.79
1:AA:944:G:H3'	1:AA:944:G:N3	1.97	0.79
4:AE:60:ASN:OD1	4:AE:62:PRO:CG	2.30	0.79
8:AK:107:VAL:HG12	8:AK:108:THR:H	1.47	0.79
11:AO:38:GLN:O	11:AO:41:ARG:HB2	1.81	0.79
21:AV:76:LEU:HD23	21:AV:76:LEU:H	1.47	0.79
1:BA:528:A:C2	1:BA:2043:C:H5'	2.16	0.79
4:BE:36:ARG:HH11	4:BE:36:ARG:HG2	1.46	0.79
52:DB:7:G:H3'	52:DB:8:U:C5'	2.11	0.79
1:AA:676:A:H8	1:AA:2069:G:H21	1.27	0.79
9:BM:30:ILE:O	9:BM:34:LEU:HD22	1.82	0.79
12:BP:21:THR:CG2	12:BP:21:THR:O	2.30	0.79
12:BP:26:TYR:CD1	12:BP:139:GLU:HG3	2.17	0.79
28:B6:47:THR:O	28:B6:47:THR:CG2	2.30	0.79
34:DG:13:ARG:HD3	34:DG:13:ARG:H	1.47	0.79
46:DS:53:VAL:HG12	46:DS:79:VAL:HG22	1.64	0.79
1:AA:76:C:O2'	24:AW:62:THR:HG21	1.82	0.79
1:AA:140:A:C8	1:AA:1408:C:O2'	2.34	0.79
2:AB:71:C:H2'	2:AB:72:G:H8	1.46	0.79
4:AE:13:ARG:HH11	4:AE:13:ARG:HB3	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:4:ILE:HD13	7:AH:4:ILE:H	1.45	0.79
11:AO:64:LYS:HB2	30:A8:25:MET:HG3	1.64	0.79
20:AU:76:CYS:O	20:AU:78:ALA:N	2.15	0.79
1:BA:2154:G:H2'	1:BA:2155:G:H8	1.48	0.79
4:BE:51:PHE:HA	4:BE:52:LEU:HB2	1.64	0.79
5:BF:46:ARG:HH11	5:BF:46:ARG:CG	1.96	0.79
5:BF:84:VAL:C	5:BF:86:GLY:N	2.35	0.79
21:BV:105:VAL:HG22	21:BV:106:GLY:H	1.48	0.79
26:B4:20:ASN:CG	26:B4:21:VAL:N	2.39	0.79
31:DA:362:G:H4'	42:DO:33:ARG:HH21	1.45	0.79
39:DL:125:TYR:HD2	39:DL:126:SER:N	1.80	0.79
41:DN:69:ALA:HB1	41:DN:103:LEU:HD21	1.63	0.79
1:AA:1434:A:H61	1:AA:1558:A:H62	1.30	0.79
4:AE:66:HIS:C	4:AE:66:HIS:HD1	1.91	0.79
6:AG:83:ARG:HG3	6:AG:86:MET:HE2	1.65	0.79
11:AO:114:ILE:HD11	11:AO:130:PHE:HD1	1.48	0.79
20:AU:87:LYS:HD2	20:AU:92:ASN:HB3	1.64	0.79
1:BA:1058:U:H3	1:BA:1080:A:H61	1.26	0.79
4:BE:182:LEU:HD12	4:BE:183:LEU:H	1.46	0.79
8:BK:82:ARG:HH21	31:CA:56:U:C4'	1.95	0.79
11:BO:61:ARG:HB2	11:BO:61:ARG:HH21	0.77	0.79
11:BO:105:LEU:O	11:BO:105:LEU:CD1	2.30	0.79
52:CB:18:G:H1'	52:CB:19:G:OP1	1.82	0.79
31:DA:1160:G:H1	31:DA:1177:G:H22	0.84	0.79
42:DO:62:SER:HB2	42:DO:64:TYR:HD1	1.47	0.79
1:AA:654(A):A:C2	1:AA:654(T):A:N1	2.51	0.79
12:AP:65:PHE:O	12:AP:66:ILE:CG2	2.30	0.79
15:AR:50:ILE:HD11	15:AR:102:ILE:HD11	1.64	0.79
1:BA:205:G:H1'	1:BA:206:U:OP2	1.82	0.79
3:BD:246:PRO:HD2	3:BD:255:LYS:HE2	1.63	0.79
4:BE:66:HIS:NE2	4:BE:73:GLU:OE1	2.15	0.79
31:DA:942:G:H21	39:DL:124:GLN:NE2	1.80	0.79
1:AA:1049:C:H2'	1:AA:1050:A:H5''	1.64	0.79
3:AD:35:LYS:HD3	3:AD:63:ARG:CA	2.12	0.79
7:AH:30:LYS:HD2	7:AH:81:GLU:H	1.47	0.79
24:AW:15:LYS:H	24:AW:67:LYS:NZ	1.81	0.79
1:BA:2712(A):A:H5''	1:BA:2713:A:OP2	1.82	0.79
11:BO:64:LYS:HB3	30:B8:25:MET:HG2	1.63	0.79
11:BO:105:LEU:O	11:BO:106:LEU:HB2	1.82	0.79
14:BQ:27:SER:HA	14:BQ:88:ASP:HB2	0.84	0.79
20:BU:97:ARG:NH2	20:BU:98:VAL:HB	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B6:38:LYS:NZ	28:B6:46:HIS:HD2	1.81	0.79
31:CA:601:C:H2'	31:CA:602:A:H8	1.48	0.79
45:DR:17:ARG:HG3	45:DR:17:ARG:NH1	1.95	0.79
1:AA:140:A:H8	1:AA:1408:C:O2'	1.64	0.79
1:AA:1470:G:H5''	1:AA:1471:A:OP1	1.83	0.79
12:AP:65:PHE:O	12:AP:66:ILE:CG1	2.30	0.79
1:BA:1689:A:N7	1:BA:1698:A:N1	2.31	0.79
5:BF:102:PRO:HB2	5:BF:105:VAL:HG23	1.63	0.79
5:BF:123:LEU:HA	5:BF:192:LEU:O	1.82	0.79
5:BF:125:LEU:H	5:BF:125:LEU:HD23	1.46	0.79
8:BK:82:ARG:NH2	31:CA:56:U:H4'	1.96	0.79
18:BS:9:TYR:H	18:BS:102:HIS:CD2	2.00	0.79
42:CO:15:VAL:HG23	42:CO:16:ARG:H	1.47	0.79
31:DA:192:U:H2'	31:DA:193:C:H6	1.48	0.79
31:DA:963:G:H21	40:DM:55:LYS:HD3	1.48	0.79
42:DO:27:LEU:HD23	42:DO:33:ARG:HG2	1.65	0.79
1:AA:363(B):G:H2'	1:AA:363(C):G:C8	2.17	0.79
3:AD:35:LYS:NZ	3:AD:65:ILE:HA	1.97	0.79
12:AP:90:VAL:CG1	12:AP:90:VAL:O	2.30	0.79
17:B2:69:LYS:HD3	17:B2:85:LYS:HD2	1.65	0.79
35:CH:91:LEU:HD12	35:CH:120:THR:HG22	1.64	0.79
39:CL:53:VAL:HG23	39:CL:95:LYS:HD2	1.65	0.79
31:DA:382:A:H2'	31:DA:383:A:C8	2.17	0.79
34:DG:175:SER:HB3	34:DG:186:LEU:HD11	1.64	0.79
40:DM:54:PHE:CD2	40:DM:55:LYS:HD2	2.18	0.79
1:AA:2646:C:OP2	1:AA:2732:G:O2'	2.01	0.79
17:A2:29:PRO:HA	17:A2:61:VAL:HG23	1.64	0.79
26:A4:15:ILE:HD12	26:A4:32:TYR:HD1	1.48	0.79
4:BE:11:MET:HA	4:BE:24:THR:HA	1.65	0.79
4:BE:44:TYR:O	4:BE:45:THR:HB	1.81	0.79
8:BK:125:GLU:HB2	8:BK:141:LYS:HD3	1.65	0.79
12:BP:75:THR:HG21	12:BP:87:LYS:HE3	1.62	0.79
12:BP:78:PRO:O	12:BP:79:LEU:CD1	2.31	0.79
23:BZ:91:LYS:HB2	23:BZ:91:LYS:HZ2	1.44	0.79
32:CE:33:TYR:HB2	32:CE:43:ASP:HB2	1.64	0.79
50:CW:65:LYS:HG3	50:CW:68:LYS:HE2	1.64	0.79
31:DA:652:U:H1'	31:DA:653:A:H2	1.48	0.79
1:AA:2126:A:N6	1:AA:2163:C:H1'	1.98	0.78
1:AA:2438:U:O3'	1:AA:2439:A:H3'	1.82	0.78
7:AH:59:ARG:HH11	7:AH:59:ARG:CG	1.96	0.78
15:AR:39:ARG:HG2	15:AR:40:THR:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:54:ARG:O	15:AR:55:ASN:CB	2.31	0.78
1:BA:859:G:O2'	1:BA:916:G:O6	2.00	0.78
1:BA:2276:G:OP1	12:BP:84:GLY:HA2	1.83	0.78
1:BA:2523:G:H8	1:BA:2523:G:H5'	1.49	0.78
1:BA:2747:G:O6	1:BA:2755:C:H5''	1.83	0.78
1:BA:2849:U:O2'	1:BA:2866:U:O2	1.99	0.78
12:BP:65:PHE:O	12:BP:66:ILE:CG1	2.30	0.78
13:B0:21:TYR:OH	13:B0:43:GLU:HG2	1.83	0.78
17:B2:78:LYS:O	17:B2:79:VAL:CG2	2.30	0.78
31:CA:1178:G:H5'	39:CL:93:ARG:NH2	1.98	0.78
31:CA:1256:A:N6	31:CA:1278:U:OP2	2.16	0.78
36:CI:67:MET:HB2	36:CI:68:PRO:HD2	1.65	0.78
41:CN:17:GLY:HA3	41:CN:77:MET:CE	2.13	0.78
31:DA:235:C:H5'	47:DT:70:ARG:HG2	1.66	0.78
35:DH:144:THR:O	35:DH:148:VAL:HG23	1.84	0.78
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.48	0.78
4:AE:78:LEU:O	4:AE:79:ARG:HB2	1.82	0.78
6:AG:78:SER:HB2	53:CC:57:C:O2'	1.84	0.78
12:AP:65:PHE:HD2	12:AP:105:GLU:O	1.66	0.78
1:BA:2681:C:H5	1:BA:2725:A:N6	1.68	0.78
2:BB:83:G:H1	2:BB:93:C:N4	1.82	0.78
13:B0:118:GLU:HA	13:B0:118:GLU:OE1	1.83	0.78
17:B2:28:GLU:HB3	17:B2:29:PRO:HD2	1.65	0.78
23:BZ:41:ARG:HG3	23:BZ:43:TYR:CE2	2.18	0.78
31:CA:223:U:H2'	31:CA:224:C:H6	1.47	0.78
31:CA:1096:C:H2'	31:CA:1097:C:H6	1.48	0.78
31:DA:1002:G:H2'	31:DA:1003:G:H8	1.46	0.78
49:DV:18:LYS:O	49:DV:22:LEU:HB2	1.83	0.78
1:AA:1771:C:H1'	1:AA:1786:A:C8	2.18	0.78
15:AR:16:ARG:HD3	15:AR:19:LEU:HD11	1.64	0.78
19:AT:57:LEU:CD1	19:AT:78:LYS:HB2	2.13	0.78
21:AV:7:ALA:HB2	21:AV:59:LEU:HD13	1.65	0.78
30:A8:33:ASN:HA	30:A8:36:LYS:HE3	1.65	0.78
1:BA:1062:G:H1	1:BA:1076:C:N4	1.80	0.78
1:BA:1342:A:C6	1:BA:1397:U:C5	2.71	0.78
31:CA:1176:A:N6	31:CA:1177:G:C6	2.51	0.78
1:AA:67:U:N3	1:AA:74:A:C2	2.50	0.78
1:AA:1729:A:O2'	1:AA:1730:U:H5''	1.83	0.78
3:AD:44:ASN:ND2	3:AD:44:ASN:N	2.31	0.78
21:AV:130:PRO:HA	21:AV:133:ILE:HD11	1.65	0.78
1:BA:68:G:H2'	1:BA:69:C:H6	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:25:THR:O	3:BD:27:THR:N	2.16	0.78
31:DA:1142:G:H2'	31:DA:1143:G:O4'	1.83	0.78
1:AA:805:G:O4'	11:AO:38:GLN:NE2	2.16	0.78
1:AA:1434:A:H61	1:AA:1558:A:N6	1.82	0.78
1:AA:2081:C:OP1	23:AZ:19:GLN:NE2	2.16	0.78
3:AD:35:LYS:CG	3:AD:64:ILE:H	1.96	0.78
1:BA:90:U:O2'	1:BA:91:A:H8	1.66	0.78
1:BA:672:C:O2'	1:BA:673:C:H5''	1.83	0.78
1:BA:2128:C:H2'	1:BA:2129:C:C6	2.18	0.78
17:B2:78:LYS:O	17:B2:79:VAL:CG1	2.30	0.78
28:B6:25:LYS:CE	30:B8:34:TRP:CH2	2.67	0.78
32:CE:7:VAL:HB	32:CE:217:ARG:HH21	1.48	0.78
32:DE:137:ARG:O	32:DE:137:ARG:NH1	2.14	0.78
42:DO:47:LYS:HB3	42:DO:48:PRO:HD2	1.64	0.78
47:DT:63:ARG:HG2	47:DT:64:PRO:HD2	1.65	0.78
1:AA:1359:A:C2	1:AA:1372:U:O4	2.37	0.78
1:AA:1884:A:H2'	1:AA:1885:A:C5'	2.12	0.78
3:AD:89:SER:HB2	3:AD:159:ALA:HB2	1.66	0.78
19:AT:12:VAL:HG13	19:AT:27:THR:O	1.84	0.78
29:A7:48:LYS:O	29:A7:49:ARG:HB3	1.82	0.78
1:BA:2420:C:N4	30:B8:31:HIS:HB3	1.97	0.78
1:BA:2439:A:C8	1:BA:2439:A:H5'	2.19	0.78
11:BO:30:THR:HG21	11:BO:35:HIS:H	1.47	0.78
14:BQ:87:PHE:CZ	14:BQ:102:ALA:HB2	2.19	0.78
33:CF:19:GLU:HA	33:CF:54:ARG:NH1	1.99	0.78
31:DA:1139:G:N2	31:DA:1143:G:H1	1.81	0.78
53:DD:56:U:H3	53:DD:58:A:H8	1.30	0.78
1:AA:2199:A:H5'	23:AZ:50:ARG:HH21	1.47	0.78
1:BA:2119:A:N6	1:BA:2170:A:N7	2.31	0.78
13:B0:37:THR:CG2	13:B0:40:LYS:H	1.96	0.78
31:DA:84:U:H2'	31:DA:84:U:O2	1.84	0.78
31:DA:827:U:H3	31:DA:872:A:H62	1.27	0.78
31:DA:1095:U:P	31:DA:1108:G:H1	2.06	0.78
1:AA:1264:G:H5'	27:A5:11:THR:CG2	2.13	0.78
1:AA:1728:G:C2	1:AA:1730:U:OP2	2.37	0.78
1:AA:2864:G:OP1	15:AR:119:LYS:HD2	1.84	0.78
12:BP:66:ILE:CG1	12:BP:67:ARG:N	2.32	0.78
12:BP:66:ILE:O	12:BP:104:PHE:N	2.16	0.78
31:CA:1037:C:H2'	31:CA:1038:C:C6	2.19	0.78
31:CA:1190:G:H5'	33:CF:176:HIS:CE1	2.19	0.78
31:CA:1239:A:H62	31:CA:1299:A:H62	1.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1286:A:C8	31:DA:1287:A:H4'	2.18	0.78
4:AE:197:ILE:HD11	4:AE:199:ARG:HE	1.49	0.78
12:AP:34:LEU:HD11	12:AP:129:THR:HB	1.64	0.78
28:A6:30:THR:HA	28:A6:31:PRO:C	2.09	0.78
1:BA:2467:C:H2'	1:BA:2468:G:O4'	1.83	0.78
5:BF:31:HIS:CB	11:BO:9:ASN:OD1	2.31	0.78
6:BG:59:GLU:CD	6:BG:153:ARG:HH21	1.92	0.78
11:BO:96:THR:OG1	11:BO:97:PRO:HD2	1.84	0.78
42:CO:123:LYS:HE3	42:CO:125:ALA:HB3	1.64	0.78
31:DA:365:U:H5''	31:DA:366:C:OP1	1.84	0.78
1:AA:1014:U:H2'	1:AA:1015:G:H5''	1.63	0.78
1:AA:1069:A:H4'	1:AA:1070:A:H5''	1.66	0.78
1:AA:2125:G:N1	1:AA:2172:U:OP1	2.17	0.78
1:AA:2327:A:H2'	1:AA:2328:A:C8	2.18	0.78
2:AB:37:C:C2'	2:AB:38:C:H5'	2.14	0.78
9:AM:133:GLN:HE21	9:AM:133:GLN:N	1.80	0.78
17:A2:44:LYS:O	17:A2:46:VAL:HG12	1.83	0.78
6:BG:64:THR:HG23	6:BG:66:GLN:H	1.48	0.78
11:BO:64:LYS:CG	30:B8:25:MET:SD	2.72	0.78
33:CF:142:MET:O	33:CF:145:GLY:N	2.16	0.78
38:CK:4:ASP:OD1	38:CK:85:ARG:NH1	2.17	0.78
37:DJ:26:PHE:O	37:DJ:30:ILE:HG13	1.84	0.78
1:AA:1179:C:C2'	1:AA:1180:C:H5''	2.13	0.77
5:AF:198:ALA:HA	5:AF:201:VAL:HG12	1.64	0.77
26:A4:34:GLU:HG2	26:A4:35:VAL:N	1.95	0.77
1:BA:1060:U:H5''	1:BA:1061:U:C5	2.18	0.77
9:BM:19:GLU:HG3	9:BM:59:LYS:HB3	1.64	0.77
17:B2:72:VAL:O	17:B2:73:SER:CB	2.32	0.77
19:BT:80:ILE:O	19:BT:80:ILE:HG13	1.82	0.77
31:CA:1305:G:H22	31:CA:1331:G:C2'	1.91	0.77
32:CE:178:ARG:HH11	32:CE:178:ARG:HB2	1.49	0.77
34:CG:111:ALA:HB2	34:CG:120:LEU:HD12	1.66	0.77
45:CR:43:LEU:HD12	45:CR:56:LEU:HD23	1.66	0.77
49:CV:41:VAL:HB	49:CV:42:PRO:CA	2.13	0.77
33:DF:35:GLU:HA	33:DF:38:ARG:HE	1.49	0.77
46:DS:1:MET:HE1	46:DS:65:GLN:HG2	1.65	0.77
54:D1:14:U:O2'	54:D1:15:U:O4'	2.00	0.77
1:AA:242:G:H5'	30:A8:62:LEU:HD22	1.66	0.77
1:AA:631:A:P	30:A8:46:ARG:HH21	2.07	0.77
22:A3:64:ASP:HB2	22:A3:85:ALA:HB2	1.67	0.77
1:BA:270(I):G:H1	1:BA:270(Q):C:H42	1.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:79:GLY:HA2	5:BF:86:GLY:HA2	1.64	0.77
9:BM:56:ASN:H	9:BM:125:GLY:HA3	1.48	0.77
12:BP:31:ASP:O	12:BP:134:ARG:HB2	1.84	0.77
16:B1:91:ASP:C	16:B1:93:LYS:H	1.90	0.77
22:B3:36:ILE:HD13	22:B3:36:ILE:O	1.84	0.77
28:B6:25:LYS:HD2	30:B8:34:TRP:CH2	2.17	0.77
31:CA:443:C:H2'	31:CA:444:C:H6	1.49	0.77
31:CA:819:A:H4'	31:CA:820:U:OP2	1.83	0.77
46:CS:28:ARG:HG2	46:CS:29:ASP:OD2	1.85	0.77
50:CW:53:LEU:HB3	50:CW:102:GLY:HA3	1.65	0.77
1:AA:1178:C:H2'	1:AA:1178:C:O2	1.85	0.77
1:AA:1505:C:H2'	1:AA:1506:C:H6	1.50	0.77
1:AA:1588:C:H2'	1:AA:1589:C:H6	1.50	0.77
1:AA:2473:U:C2'	1:AA:2474:C:H5''	2.13	0.77
5:AF:29:ASN:N	5:AF:112:MET:HE1	1.99	0.77
1:BA:242:G:H5''	30:B8:62:LEU:HD13	1.66	0.77
1:BA:1226:G:P	17:B2:85:LYS:CB	2.58	0.77
12:BP:59:ARG:O	12:BP:60:ARG:CB	2.33	0.77
20:BU:96:ILE:HD12	20:BU:98:VAL:HG12	1.67	0.77
35:CH:79:GLU:HB3	35:CH:92:LYS:HG3	1.65	0.77
50:CW:89:ARG:HH21	50:CW:104:LEU:HD11	1.48	0.77
31:DA:77:C:H42	31:DA:92:G:H1	1.30	0.77
31:DA:1306:A:N6	31:DA:1331:G:H1'	1.99	0.77
11:AO:61:ARG:HB2	11:AO:61:ARG:HH21	0.77	0.77
3:BD:35:LYS:HG2	3:BD:64:ILE:H	1.47	0.77
12:BP:26:TYR:HD1	12:BP:139:GLU:HG3	1.49	0.77
31:CA:1004:A:H8	31:CA:1036:G:N2	1.82	0.77
34:CG:26:CYS:HA	34:CG:31:CYS:HA	1.66	0.77
1:AA:2287:A:N6	1:AA:2344:U:H3	1.79	0.77
12:AP:66:ILE:HD13	12:AP:68:ILE:O	1.84	0.77
21:AV:113:ALA:N	21:AV:114:GLY:HA2	1.97	0.77
1:BA:90:U:O2'	1:BA:91:A:C8	2.37	0.77
1:BA:1614:A:H62	18:BS:93:ALA:HB2	1.49	0.77
1:BA:2275:C:HO2'	12:BP:84:GLY:CA	1.90	0.77
5:BF:53:THR:HG23	5:BF:55:GLY:H	1.49	0.77
9:BM:46:VAL:O	9:BM:47:ALA:CB	2.32	0.77
9:BM:58:ASP:OD1	9:BM:58:ASP:N	2.17	0.77
17:B2:70:ILE:O	17:B2:71:LEU:CB	2.32	0.77
25:BX:7:LYS:HE2	25:BX:32:GLN:O	1.84	0.77
31:DA:673:G:H2'	31:DA:674:G:C8	2.19	0.77
32:DE:16:HIS:CD2	32:DE:209:ARG:HB3	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DL:95:LYS:HD3	39:DL:96:LEU:H	1.49	0.77
52:DB:14:A:N6	52:DB:21:A:H61	1.82	0.77
3:AD:130:ALA:C	3:AD:131:LEU:HD12	2.09	0.77
3:AD:132:PRO:HD3	3:AD:190:TYR:CZ	2.19	0.77
6:AG:77:ILE:HG21	6:AG:80:PHE:CE2	2.20	0.77
6:AG:96:ARG:HG2	6:AG:96:ARG:NH1	1.93	0.77
12:AP:29:PHE:HB2	12:AP:105:GLU:OE2	1.85	0.77
1:BA:1887:C:H2'	1:BA:1888:G:H5''	1.67	0.77
1:BA:2392:A:H8	11:BO:60:MET:HB2	1.50	0.77
11:BO:16:ARG:HG3	11:BO:16:ARG:HH11	1.49	0.77
31:CA:975:A:C4'	31:CA:976:G:H5''	2.14	0.77
31:CA:1004:A:C8	31:CA:1036:G:N1	2.53	0.77
32:CE:54:THR:HG21	32:CE:201:ILE:HD11	1.66	0.77
34:CG:162:LEU:O	34:CG:165:MET:HB2	1.85	0.77
50:DW:12:ALA:O	50:DW:15:ARG:HB2	1.85	0.77
1:AA:273(F):C:H3'	1:AA:274:G:H5''	1.65	0.77
1:AA:1316:U:H2'	1:AA:1317:A:H8	1.49	0.77
1:AA:1727:U:H5''	1:AA:1728:G:OP2	1.84	0.77
4:BE:131:ALA:O	4:BE:132:HIS:CB	2.33	0.77
12:BP:64:ILE:CA	12:BP:106:VAL:HG12	2.14	0.77
16:B1:92:ARG:HD3	16:B1:94:ASN:HB3	1.67	0.77
31:CA:606:G:H22	31:CA:631:G:H8	1.28	0.77
31:CA:838:G:N2	31:CA:848:C:N3	2.31	0.77
38:DK:64:LYS:HD2	38:DK:79:VAL:HG21	1.67	0.77
50:DW:82:SER:O	50:DW:86:ARG:HB2	1.84	0.77
1:AA:540:G:H5'	1:AA:541:C:OP2	1.84	0.77
1:AA:1093:G:H5'	7:AH:170:ARG:HH22	1.47	0.77
1:AA:1169:G:H1	1:AA:1180:C:H42	1.32	0.77
1:AA:1533:C:H2'	1:AA:1534:G:C8	2.20	0.77
3:AD:35:LYS:HG2	3:AD:64:ILE:N	1.99	0.77
4:AE:74:PRO:CG	4:AE:77:ILE:HG22	2.14	0.77
7:AH:153:LYS:CG	7:AH:162:ILE:H	1.98	0.77
11:AO:64:LYS:HD2	30:A8:25:MET:SD	2.24	0.77
20:AU:76:CYS:HB3	20:AU:96:ILE:CD1	2.15	0.77
3:BD:148:GLU:HB2	3:BD:151:LYS:HD2	1.67	0.77
12:BP:90:VAL:O	12:BP:90:VAL:HG12	1.82	0.77
21:BV:150:LEU:HD22	21:BV:154:ASP:HB2	1.67	0.77
24:BW:14:ARG:HG3	24:BW:15:LYS:HE3	1.67	0.77
28:B6:29:ASN:ND2	28:B6:29:ASN:H	1.79	0.77
31:CA:143:A:H2	31:CA:220:G:H1	1.32	0.77
31:CA:276:G:O3'	47:CT:68:ARG:NH1	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:953:G:H5'	31:CA:965:A:H61	1.50	0.77
31:DA:250:A:H1'	31:DA:251:G:OP2	1.83	0.77
33:DF:63:ASN:HB3	33:DF:98:ASN:HB3	1.66	0.77
43:DP:84:ILE:HG21	49:DV:63:THR:HG21	1.67	0.77
1:AA:49:A:C8	1:AA:120:U:C5	2.73	0.77
1:AA:1790:C:H5''	1:AA:1791:A:OP1	1.85	0.77
3:AD:123:ALA:CB	3:AD:131:LEU:HG	2.14	0.77
13:A0:33:ARG:HH22	27:A5:55:ARG:HG2	1.46	0.77
17:A2:44:LYS:C	17:A2:46:VAL:H	1.90	0.77
1:BA:654(R):C:N4	1:BA:654(S):G:O6	2.18	0.77
1:BA:946:G:H2'	1:BA:947:G:C8	2.17	0.77
1:BA:1681:G:HO2'	1:BA:1762:A:C2'	1.98	0.77
40:CM:49:VAL:CG2	44:CQ:41:ARG:HB2	2.14	0.77
37:DJ:79:ARG:HG2	37:DJ:84:ASN:HD21	1.50	0.77
1:AA:594:U:H5'	30:A8:61:LEU:CD1	2.14	0.77
1:AA:780:G:N2	1:AA:783:A:H62	1.82	0.77
3:AD:127:VAL:HA	3:AD:193:VAL:HG23	1.66	0.77
19:AT:60:ARG:HH22	29:A7:47:ARG:HH12	1.31	0.77
20:AU:81:LYS:NZ	20:AU:96:ILE:HD12	2.00	0.77
1:BA:517:C:OP1	27:B5:16:ARG:NH2	2.18	0.77
1:BA:1336:A:H2'	1:BA:1337:G:H8	1.49	0.77
1:BA:1688:U:O2	1:BA:1700:A:H5'	1.86	0.77
4:BE:51:PHE:O	4:BE:74:PRO:HB2	1.84	0.77
8:BK:5:LEU:HD11	8:BK:19:VAL:HG12	1.67	0.77
20:BU:40:GLU:HA	20:BU:40:GLU:OE2	1.84	0.77
38:CK:129:VAL:HG23	38:CK:130:GLY:H	1.49	0.77
1:AA:71:A:H2	19:AT:31:HIS:HE1	1.33	0.76
1:AA:652:C:H5'	1:AA:653:A:OP2	1.84	0.76
1:AA:1606:G:H5''	1:AA:1607:C:OP1	1.86	0.76
1:AA:2292:C:O2'	1:AA:2293:C:H5'	1.85	0.76
18:AS:9:TYR:H	18:AS:102:HIS:CD2	2.02	0.76
1:BA:993:G:O4'	17:B2:87:HIS:CE1	2.38	0.76
1:BA:1188:U:O2'	1:BA:1189:A:H5'	1.86	0.76
1:BA:1328:G:H2'	1:BA:1330:C:C5	2.20	0.76
1:BA:1336:A:H2'	1:BA:1337:G:C8	2.20	0.76
1:BA:2746:U:H4'	7:BH:138:LYS:HG3	1.67	0.76
2:BB:104:A:H2'	2:BB:105:G:O4'	1.84	0.76
4:BE:56:PRO:CB	4:BE:57:LYS:CE	2.61	0.76
15:BR:8:LYS:HB3	15:BR:8:LYS:NZ	1.98	0.76
15:BR:92:GLY:HA2	15:BR:116:ALA:HA	1.67	0.76
31:CA:439:A:OP2	31:CA:493:G:N2	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:503:C:OP2	42:CO:113:SER:OG	2.03	0.76
49:CV:30:LEU:HD22	49:CV:30:LEU:O	1.84	0.76
50:CW:10:LEU:HD21	50:CW:12:ALA:HB3	1.67	0.76
31:DA:411:A:C5	31:DA:413:G:H1'	2.20	0.76
31:DA:973:G:OP1	40:DM:57:LYS:NZ	2.17	0.76
1:AA:1203:G:H3'	1:AA:1204:A:H5''	1.65	0.76
1:AA:1678:G:N2	1:AA:1989:G:H22	1.81	0.76
21:AV:62:PRO:O	21:AV:63:ASP:HB3	1.83	0.76
1:BA:1826:G:H4'	3:BD:242:ARG:NH2	2.00	0.76
3:BD:70:TRP:CH2	3:BD:150:LYS:HA	2.20	0.76
23:BZ:92:LYS:HE2	23:BZ:93:GLU:H	1.49	0.76
30:B8:22:VAL:C	30:B8:50:LEU:HD21	2.11	0.76
31:CA:119:A:H4'	31:CA:120:A:O5'	1.85	0.76
31:CA:1128:C:H5'	39:CL:16:ARG:HH12	1.47	0.76
31:DA:928:G:O2'	31:DA:1533:C:OP1	2.04	0.76
53:DD:31:G:H2'	53:DD:32:G:C8	2.20	0.76
1:AA:1178:C:H4'	1:AA:1179:C:OP1	1.85	0.76
1:AA:2371:G:H4'	28:A6:45:LYS:HG3	1.56	0.76
1:AA:2705:A:O2'	1:AA:2852:G:OP1	2.03	0.76
6:AG:82:LEU:O	6:AG:82:LEU:HD13	1.84	0.76
21:AV:54:HIS:NE2	21:AV:123:ASP:OD2	2.19	0.76
3:BD:223:GLY:HA2	3:BD:226:MET:HG3	1.65	0.76
4:BE:52:LEU:C	4:BE:52:LEU:CD1	2.54	0.76
31:CA:737:A:H2'	31:CA:738:C:C6	2.21	0.76
51:CX:15:ARG:HH11	51:CX:15:ARG:CG	1.97	0.76
31:DA:1077:G:N2	31:DA:1080:A:OP2	2.17	0.76
1:AA:882:G:H3'	1:AA:883:G:H5''	1.67	0.76
1:AA:2346:A:H4'	1:AA:2347:C:OP2	1.84	0.76
7:AH:43:VAL:HG12	7:AH:52:VAL:HG22	1.66	0.76
31:CA:791:G:C6	31:CA:792:A:N6	2.51	0.76
34:CG:10:ARG:NH1	34:CG:10:ARG:HB2	1.99	0.76
1:AA:242:G:H5'	30:A8:62:LEU:CD2	2.15	0.76
3:AD:166:GLN:HE21	3:AD:166:GLN:CA	1.97	0.76
3:BD:64:ILE:O	3:BD:64:ILE:CG1	2.33	0.76
17:B2:49:THR:O	17:B2:50:PRO:C	2.26	0.76
20:BU:39:VAL:HG23	20:BU:40:GLU:H	1.49	0.76
50:CW:13:LEU:C	50:CW:13:LEU:HD12	2.11	0.76
1:AA:314:A:C2'	1:AA:315:G:H5'	2.15	0.76
1:AA:796:C:H2'	1:AA:797:C:C6	2.21	0.76
1:AA:1141:U:H6	9:AM:63:THR:HG1	1.30	0.76
2:AB:43:C:OP1	6:AG:67:LYS:NZ	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:47:VAL:CG2	17:A2:48:GLY:N	2.47	0.76
1:BA:674:G:C1'	5:BF:74:ARG:HD3	2.15	0.76
5:BF:67:GLN:O	5:BF:67:GLN:CG	2.32	0.76
12:BP:66:ILE:O	12:BP:67:ARG:CB	2.34	0.76
31:CA:1226:C:OP2	43:CP:103:THR:OG1	2.01	0.76
53:CC:48:U:O2'	53:CC:49:C:OP2	2.02	0.76
31:DA:1027:C:O2	31:DA:1035:A:N6	2.19	0.76
31:DA:1149:C:H2'	31:DA:1150:U:C6	2.21	0.76
1:AA:654:A:N3	1:AA:654:A:H2'	1.99	0.76
1:AA:881:G:H3'	1:AA:882:G:O4'	1.85	0.76
1:AA:1899:G:N2	1:AA:1902:C:H5	1.84	0.76
1:AA:1899:G:H21	1:AA:1902:C:H5	1.34	0.76
23:AZ:85:LEU:O	23:AZ:87:PRO:CD	2.33	0.76
27:A5:40:LYS:NZ	27:A5:46:CYS:HB3	2.01	0.76
2:BB:15:A:H5'	2:BB:16:G:C8	2.21	0.76
3:BD:91:ARG:HG2	3:BD:91:ARG:NH1	1.99	0.76
4:BE:25:VAL:HG12	4:BE:26:ILE:N	1.97	0.76
5:BF:127:GLU:OE1	5:BF:127:GLU:HA	1.86	0.76
12:BP:2:LEU:O	12:BP:70:PRO:HG3	1.83	0.76
32:CE:212:GLN:O	32:CE:216:SER:HB2	1.84	0.76
34:DG:9:CYS:SG	34:DG:22:LYS:HD2	2.25	0.76
40:DM:13:HIS:C	40:DM:13:HIS:CD2	2.64	0.76
1:AA:330:A:O2'	1:AA:331:A:C8	2.37	0.76
1:AA:905:U:C2'	1:AA:906:G:H5''	2.16	0.76
1:AA:1126:A:H4'	1:AA:1127:A:O5'	1.83	0.76
3:AD:44:ASN:H	3:AD:44:ASN:HD22	1.34	0.76
8:BK:78:THR:HB	8:BK:104:GLN:HE22	1.51	0.76
28:B6:44:ARG:O	28:B6:45:LYS:CB	2.31	0.76
31:CA:1502:A:H2	31:CA:1505:G:N2	1.84	0.76
39:CL:52:ALA:C	39:CL:95:LYS:HZ1	1.93	0.76
39:CL:79:LEU:HD13	39:CL:83:ARG:HD2	1.68	0.76
39:CL:121:ARG:NH1	39:CL:122:ALA:O	2.18	0.76
40:DM:99:LYS:HD3	40:DM:100:THR:N	1.99	0.76
1:AA:1060:U:H1'	1:AA:1061:U:OP2	1.86	0.76
1:AA:1537:C:H2'	1:AA:1538:G:C8	2.21	0.76
1:BA:1967:C:H2'	1:BA:1968:G:H5'	1.67	0.76
2:BB:39:A:C6	26:B4:1:MET:HB3	2.21	0.76
5:BF:18:ARG:HG2	5:BF:19:GLU:N	2.00	0.76
8:BK:101:LEU:HD23	8:BK:101:LEU:H	1.49	0.76
15:BR:26:ASP:HB2	15:BR:91:ARG:HA	1.65	0.76
35:CH:102:ALA:HB1	35:CH:106:PRO:HG2	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CC:20:G:C2	53:CC:58:A:N3	2.53	0.76
31:DA:1321:C:H3'	31:DA:1322:C:H5''	1.66	0.76
32:DE:153:ARG:HG3	32:DE:154:LEU:H	1.50	0.76
1:AA:1042:G:H1	1:AA:1113:U:H3	1.34	0.76
1:AA:2116:G:P	1:AA:2165:G:H22	2.08	0.76
1:AA:2394:C:OP1	11:AO:62:LEU:HB2	1.85	0.76
1:BA:1427:A:H4'	1:BA:1428:C:O5'	1.85	0.76
1:BA:2354:G:O2'	22:B3:36:ILE:HD12	1.86	0.76
11:BO:62:LEU:HD12	30:B8:30:ARG:CD	2.16	0.76
11:BO:124:LYS:HA	11:BO:143:GLY:O	1.86	0.76
12:BP:64:ILE:HA	12:BP:106:VAL:CG1	2.14	0.76
31:CA:818:G:O2'	31:CA:819:A:H5'	1.86	0.76
32:CE:61:LEU:HD23	32:CE:68:ILE:HD11	1.66	0.76
50:DW:56:MET:HE2	50:DW:88:VAL:HG11	1.67	0.76
1:AA:637:A:H4'	1:AA:638:G:O5'	1.86	0.75
2:AB:40:U:H1'	2:AB:45:A:N6	2.00	0.75
3:AD:71:ASP:HB3	3:AD:103:ARG:NH2	2.01	0.75
5:AF:45:ARG:HH11	5:AF:45:ARG:CG	1.99	0.75
26:A4:37:SER:HB3	26:A4:42:PHE:HB3	1.68	0.75
1:BA:734:A:O2'	1:BA:1635:G:H5'	1.85	0.75
1:BA:2875:C:H4'	15:BR:5:ALA:HB2	1.68	0.75
11:BO:64:LYS:CB	30:B8:25:MET:SD	2.74	0.75
17:B2:77:ALA:O	17:B2:78:LYS:CB	2.32	0.75
19:BT:12:VAL:HG13	19:BT:27:THR:HG23	1.68	0.75
37:CJ:78:ARG:HD2	37:CJ:80:VAL:HG22	1.67	0.75
43:DP:22:ILE:HB	43:DP:25:ILE:HG13	1.66	0.75
1:AA:883:G:H1	1:AA:893:C:H42	0.80	0.75
3:AD:186:HIS:HD2	3:AD:188:GLU:H	1.34	0.75
11:AO:11:GLY:C	11:AO:13:ASN:H	1.90	0.75
30:A8:59:LYS:NZ	30:A8:59:LYS:CB	2.48	0.75
1:BA:864:G:N7	12:BP:22:LYS:NZ	2.28	0.75
1:BA:1899:G:N2	1:BA:1902:C:H5	1.85	0.75
1:BA:2656:U:H3	1:BA:2665:A:H2	1.33	0.75
21:BV:146:ILE:HG13	21:BV:147:GLY:H	1.50	0.75
31:CA:235:C:H5'	47:CT:70:ARG:HG2	1.68	0.75
31:CA:686:U:HO2'	31:CA:687:A:C5'	1.98	0.75
32:DE:74:LYS:NZ	32:DE:205:ASP:O	2.19	0.75
32:DE:178:ARG:NH2	38:DK:74:PRO:HG3	2.01	0.75
33:DF:77:ILE:O	33:DF:83:ARG:HB3	1.86	0.75
53:DD:15:G:H2'	53:DD:60:A:C2	2.21	0.75
6:AG:104:GLU:CD	26:A4:23:GLU:HG3	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:16:ARG:HH11	11:AO:16:ARG:HG3	1.49	0.75
15:AR:108:ARG:HA	15:AR:111:ARG:HE	1.49	0.75
1:BA:1005:C:C1'	1:BA:1143:A:C2	2.69	0.75
1:BA:2135:A:O2'	1:BA:2160:G:H4'	1.87	0.75
31:CA:624:C:O3'	46:CS:10:GLY:HA2	1.86	0.75
37:CJ:23:VAL:HG12	37:CJ:43:PHE:CE2	2.20	0.75
32:DE:82:ARG:HA	32:DE:92:TYR:CE1	2.21	0.75
1:AA:1734:C:H2'	1:AA:1735:C:H5''	1.69	0.75
6:AG:83:ARG:HH11	6:AG:83:ARG:HB3	1.51	0.75
11:AO:75:ILE:HD13	11:AO:75:ILE:H	1.52	0.75
16:A1:112:ARG:HH11	16:A1:112:ARG:HG3	1.49	0.75
27:A5:40:LYS:HZ3	27:A5:46:CYS:C	1.94	0.75
1:BA:2112:G:H22	53:DD:57:C:N4	1.84	0.75
3:BD:270:ILE:HG22	3:BD:271:ILE:N	2.01	0.75
4:BE:44:TYR:O	4:BE:45:THR:CB	2.34	0.75
12:BP:134:ARG:HH22	21:BV:122:ARG:HH11	1.32	0.75
17:B2:76:LYS:H	17:B2:80:GLN:CB	1.98	0.75
21:BV:158:PRO:O	21:BV:161:VAL:HG13	1.87	0.75
31:CA:411:A:H62	31:CA:413:G:H21	1.34	0.75
37:CJ:62:PHE:CD1	37:CJ:124:LEU:HD21	2.20	0.75
1:AA:1022:G:O2'	1:AA:1023:U:OP2	2.03	0.75
12:AP:68:ILE:HD13	12:AP:103:MET:CG	2.14	0.75
12:AP:88:GLY:O	12:AP:89:ASN:HB2	1.87	0.75
1:BA:2340:G:O2'	1:BA:2341:G:H5'	1.87	0.75
1:BA:2372:G:H4'	28:B6:46:HIS:NE2	2.00	0.75
4:BE:8:LYS:O	4:BE:9:VAL:HG22	1.87	0.75
5:BF:31:HIS:HB2	11:BO:9:ASN:OD1	1.87	0.75
53:CC:62:C:H2'	53:CC:63:C:H6	1.52	0.75
1:BA:12:U:H2'	1:BA:12:U:O2	1.85	0.75
12:BP:19:GLY:N	12:BP:98:LYS:HZ3	1.83	0.75
1:AA:34:C:O2'	1:AA:35:G:OP2	2.02	0.75
1:AA:1022:G:H22	1:AA:1142(A):A:H2	1.30	0.75
1:AA:2371:G:O2'	28:A6:46:HIS:HD2	1.68	0.75
1:AA:2392:A:H8	11:AO:60:MET:HB2	1.51	0.75
5:AF:107:LYS:HE3	5:AF:207:GLY:H	1.50	0.75
6:AG:73:ALA:HB1	6:AG:82:LEU:HD11	1.69	0.75
11:BO:47:ASP:OD1	11:BO:50:ARG:NH2	2.19	0.75
16:B1:100:VAL:O	16:B1:101:ARG:HG2	1.87	0.75
31:DA:32:A:C2	31:DA:33:A:C4	2.74	0.75
31:DA:1004:A:C5'	31:DA:1025:U:O4	2.34	0.75
38:DK:10:LEU:HD22	38:DK:83:ILE:HD11	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DO:49:ASN:HD22	42:DO:49:ASN:N	1.84	0.75
2:AB:15:A:H5'	2:AB:16:G:H8	1.49	0.75
4:AE:35:GLN:HE21	4:AE:37:ARG:HD2	1.51	0.75
12:AP:65:PHE:O	12:AP:66:ILE:HG13	1.87	0.75
17:A2:39:LEU:CD1	17:A2:51:VAL:HG22	2.17	0.75
1:BA:2776:A:OP1	1:BA:2776:A:H3'	1.87	0.75
4:BE:37:ARG:HD3	4:BE:44:TYR:CZ	2.21	0.75
6:BG:109:VAL:O	6:BG:113:ARG:HG3	1.87	0.75
30:B8:26:LYS:HA	30:B8:48:PHE:HE1	1.51	0.75
31:DA:1443:G:H3'	31:DA:1446:A:C5'	2.16	0.75
1:AA:1056:G:O4'	1:AA:1086:A:H8	1.69	0.75
1:BA:90:U:C2'	1:BA:91:A:H5''	2.17	0.75
35:CH:110:LEU:HD13	35:CH:118:ILE:HD13	1.69	0.75
31:DA:273:A:C2'	31:DA:274:A:H5'	2.16	0.75
42:DO:17:LYS:HD3	42:DO:18:VAL:N	2.01	0.75
1:AA:2315:G:H2'	1:AA:2316:C:C6	2.23	0.74
1:AA:2402:C:H5	1:AA:2415:G:H22	1.35	0.74
1:AA:2734:A:H5'	1:AA:2734:A:H8	1.51	0.74
4:AE:60:ASN:OD1	4:AE:62:PRO:CD	2.35	0.74
9:AM:96:GLU:O	9:AM:96:GLU:HG2	1.87	0.74
17:A2:44:LYS:CD	17:A2:45:THR:H	1.99	0.74
1:BA:673:C:H5'	1:BA:673:C:H6	1.51	0.74
1:BA:747:U:OP2	27:B5:3:LYS:HD2	1.87	0.74
1:BA:1342:A:C2	1:BA:1397:U:C2	2.75	0.74
4:BE:48:GLN:C	4:BE:49:LEU:CG	2.58	0.74
7:BH:143:GLN:HA	7:BH:143:GLN:HE21	1.52	0.74
20:BU:90:LEU:HD23	20:BU:90:LEU:H	1.52	0.74
30:B8:26:LYS:HA	30:B8:48:PHE:CE1	2.22	0.74
54:C1:13:U:O2	54:C1:13:U:H2'	1.86	0.74
45:DR:39:LEU:HD12	45:DR:56:LEU:HD13	1.69	0.74
1:AA:142:G:C1'	19:AT:37:THR:HG21	2.17	0.74
1:AA:2583:G:N2	52:CB:87:A:H8	1.78	0.74
6:AG:83:ARG:HB3	6:AG:83:ARG:NH1	2.01	0.74
21:AV:121:HIS:HB3	21:AV:123:ASP:O	1.88	0.74
4:BE:81:ILE:O	4:BE:82:ARG:CB	2.35	0.74
4:BE:151:TYR:HD2	4:BE:154:LYS:HZ3	1.35	0.74
31:CA:31:G:O2'	31:CA:48:C:N4	2.20	0.74
31:CA:792:A:H1'	31:CA:794:A:N7	2.02	0.74
31:CA:1346:A:H5''	39:CL:120:ARG:HH12	1.50	0.74
33:CF:73:PRO:O	33:CF:76:VAL:HG22	1.86	0.74
34:CG:201:GLN:HE21	34:CG:201:GLN:HA	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CH:11:ILE:H	35:CH:11:ILE:HD13	1.50	0.74
53:CD:16:C:H5''	53:CD:17:C:OP2	1.87	0.74
31:DA:60:A:H4'	31:DA:61:G:O5'	1.86	0.74
43:DP:10:PRO:HB2	43:DP:18:ALA:HB1	1.69	0.74
48:DU:56:THR:OG1	48:DU:63:GLN:NE2	2.20	0.74
1:AA:517:C:OP1	27:A5:16:ARG:NH2	2.20	0.74
1:AA:2275:C:O2'	12:AP:84:GLY:HA3	1.87	0.74
3:AD:270:ILE:HG22	3:AD:271:ILE:N	2.02	0.74
4:AE:14:ILE:O	4:AE:15:PHE:CB	2.35	0.74
4:AE:119:ARG:HG3	4:AE:119:ARG:NH1	1.86	0.74
9:AM:40:PRO:O	16:A1:64:ARG:HG2	1.88	0.74
22:A3:53:MET:HA	22:A3:58:THR:O	1.88	0.74
1:BA:2275:C:O2'	12:BP:84:GLY:HA2	1.86	0.74
1:BA:2303:G:C2'	1:BA:2304:G:H5'	2.17	0.74
1:BA:2872:G:C4	1:BA:2873:A:C2	2.75	0.74
12:BP:35:VAL:HG22	12:BP:130:LYS:HB3	1.68	0.74
13:B0:37:THR:HG23	13:B0:39:PRO:CD	2.18	0.74
31:DA:1285:A:H1'	31:DA:1286:A:OP2	1.87	0.74
46:DS:8:ARG:HG2	46:DS:8:ARG:NH1	2.00	0.74
53:DD:8:U:H3	53:DD:14:A:H62	1.34	0.74
1:AA:571:A:O2'	17:A2:78:LYS:NZ	2.20	0.74
1:AA:881:G:H3'	1:AA:882:G:C4'	2.18	0.74
1:AA:956:G:OP2	12:AP:14:ARG:NH2	2.21	0.74
1:AA:1026:U:H1'	1:AA:1027:A:C5'	2.17	0.74
1:AA:1598:C:H2'	1:AA:1599:C:H6	1.52	0.74
1:AA:2808:U:H5'	1:AA:2891:G:O6	1.86	0.74
3:AD:35:LYS:NZ	3:AD:64:ILE:O	2.21	0.74
5:AF:185:ASP:HA	5:AF:188:ARG:HD3	1.69	0.74
6:AG:165:THR:OG1	6:AG:168:GLU:HG3	1.88	0.74
12:AP:79:LEU:CD2	12:AP:80:GLU:CG	2.40	0.74
12:BP:32:TYR:HH	12:BP:111:GLU:HB2	1.51	0.74
24:BW:10:LEU:O	24:BW:14:ARG:HB2	1.86	0.74
31:CA:789:U:C5	31:CA:792:A:OP2	2.39	0.74
31:CA:928:G:O2'	31:CA:1533:C:OP1	2.06	0.74
31:CA:1004:A:H5''	31:CA:1025:U:C4	2.22	0.74
31:CA:1027:C:H4'	31:CA:1028:C:OP1	1.86	0.74
31:CA:1090:U:H2'	31:CA:1091:U:H6	1.53	0.74
38:CK:27:PRO:HG3	38:CK:58:TYR:HE2	1.53	0.74
31:DA:690:G:H2'	31:DA:691:G:O4'	1.88	0.74
50:DW:26:ASN:HB3	50:DW:71:THR:OG1	1.87	0.74
1:AA:559:G:H22	16:A1:49:HIS:CD2	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:17:THR:CG2	3:AD:204:ILE:HA	2.18	0.74
4:AE:54:GLN:HA	4:AE:54:GLN:HE21	1.50	0.74
19:AT:60:ARG:NH2	29:A7:47:ARG:HH12	1.85	0.74
1:BA:1225:C:H4'	17:B2:85:LYS:HB3	1.70	0.74
12:BP:26:TYR:CE1	12:BP:139:GLU:CB	2.71	0.74
12:BP:26:TYR:HE1	12:BP:139:GLU:HB2	1.50	0.74
12:BP:64:ILE:HD13	12:BP:106:VAL:HG11	1.70	0.74
31:CA:630:G:H2'	31:CA:631:G:O4'	1.87	0.74
31:CA:1305:G:C5'	51:CX:4:GLY:HA3	2.18	0.74
44:CQ:43:CYS:HA	44:CQ:46:GLU:HG3	1.70	0.74
39:DL:95:LYS:HD3	39:DL:96:LEU:N	2.02	0.74
6:AG:114:ILE:HD13	6:AG:140:ILE:HG21	1.70	0.74
1:BA:195:A:OP1	11:BO:46:LYS:HD2	1.87	0.74
1:BA:2392:A:H8	11:BO:60:MET:CB	2.00	0.74
3:BD:271:ILE:O	3:BD:272:ALA:CB	2.34	0.74
31:CA:1004:A:O4'	31:CA:1025:U:N3	2.20	0.74
31:DA:534:U:H5'	31:DA:535:A:OP2	1.86	0.74
1:AA:1060:U:H5'	1:AA:1061:U:C5	2.23	0.74
3:AD:108:PRO:HG3	3:AD:143:HIS:CE1	2.22	0.74
7:AH:13:LYS:HE2	7:AH:13:LYS:HA	1.69	0.74
10:AN:63:VAL:HG12	10:AN:106:LEU:HD11	1.68	0.74
15:AR:122:ASP:OD2	31:CA:1443:G:O2'	2.05	0.74
1:BA:90:U:HO2'	1:BA:91:A:H8	1.31	0.74
1:BA:2162:G:H2'	1:BA:2163:C:H6	1.50	0.74
1:BA:2420:C:H5	30:B8:31:HIS:O	1.69	0.74
4:BE:55:ASN:H	4:BE:56:PRO:HD2	1.51	0.74
11:BO:15:ARG:HH11	11:BO:15:ARG:CB	2.01	0.74
12:BP:30:GLY:HA2	12:BP:107:ALA:CB	2.18	0.74
28:B6:9:LEU:HD13	28:B6:11:LEU:HD21	1.69	0.74
30:B8:50:LEU:O	30:B8:51:ALA:HB2	1.87	0.74
31:DA:1133:G:H1	31:DA:1141:C:N4	1.85	0.74
33:DF:43:LEU:O	33:DF:47:LEU:HB2	1.87	0.74
1:AA:2415:G:H4'	11:AO:67:MET:N	2.02	0.74
4:AE:78:LEU:HD21	4:AE:79:ARG:HD2	1.68	0.74
21:AV:117:LEU:HD13	21:AV:118:GLN:H	1.53	0.74
24:AW:15:LYS:H	24:AW:67:LYS:HZ1	1.34	0.74
1:BA:2371:G:O2'	28:B6:46:HIS:ND1	2.20	0.74
17:B2:80:GLN:HE21	17:B2:80:GLN:CA	1.90	0.74
28:B6:45:LYS:CE	28:B6:45:LYS:CA	2.62	0.74
31:CA:411:A:N7	31:CA:413:G:N3	2.36	0.74
31:CA:547:A:OP1	34:CG:73:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DL:85:LEU:HD12	39:DL:86:VAL:N	2.02	0.74
1:AA:442:G:H1'	5:AF:48:THR:HG21	1.70	0.74
1:AA:2157:G:O2'	1:AA:2158:A:O5'	2.04	0.74
19:AT:55:ASN:HB2	19:AT:80:ILE:HG13	1.69	0.74
1:BA:77:C:OP1	24:BW:59:ARG:HD3	1.88	0.74
1:BA:273(C):C:H42	1:BA:363(C):G:H1	0.79	0.74
4:BE:51:PHE:CA	4:BE:52:LEU:HB3	2.16	0.74
5:BF:51:THR:CG2	5:BF:92:PRO:HD2	2.18	0.74
9:BM:97:ARG:HG2	9:BM:97:ARG:NH1	2.03	0.74
12:BP:66:ILE:HA	12:BP:104:PHE:HA	1.70	0.74
30:B8:22:VAL:HG12	30:B8:50:LEU:CD2	2.02	0.74
31:CA:127:G:N2	47:CT:61:GLU:OE1	2.19	0.74
31:CA:438:G:H4'	34:CG:123:HIS:CG	2.22	0.74
31:CA:811:C:H4'	31:CA:900:A:N6	2.03	0.74
31:DA:554:C:H2'	31:DA:555:C:H6	1.53	0.74
33:DF:29:TYR:OH	44:DQ:54:PRO:HD2	1.88	0.74
42:DO:70:ILE:HD13	42:DO:77:LEU:HD12	1.70	0.74
1:AA:1937:A:O2'	1:AA:1938:A:OP1	2.06	0.74
1:AA:2415:G:O3'	11:AO:66:GLY:HA3	1.88	0.74
1:AA:2469:A:O2'	12:AP:56:ARG:NE	2.21	0.74
1:AA:2615:U:H2'	1:AA:2616:C:H6	1.53	0.74
20:AU:40:GLU:OE1	20:AU:40:GLU:HA	1.87	0.74
20:AU:44:ILE:HG13	20:AU:45:VAL:H	1.53	0.74
1:BA:322:A:H3'	5:BF:169:ASN:ND2	2.01	0.74
1:BA:661:C:H1'	11:BO:12:ALA:O	1.88	0.74
1:BA:1257:C:O2'	5:BF:83:PHE:O	2.06	0.74
17:B2:77:ALA:C	17:B2:78:LYS:HD3	2.13	0.74
20:BU:42:VAL:HG22	20:BU:65:ALA:HB3	1.68	0.74
31:CA:1454:G:OP1	50:CW:39:LYS:NZ	2.21	0.74
36:CI:69:GLU:O	36:CI:72:VAL:HG12	1.88	0.74
38:CK:87:SER:HB2	38:CK:93:VAL:N	2.01	0.74
38:CK:101:PRO:HG2	38:CK:133:LEU:HD11	1.70	0.74
43:CP:84:ILE:CG1	49:CV:66:MET:HG2	2.17	0.74
1:AA:142:G:H1'	19:AT:37:THR:CG2	2.18	0.73
1:AA:1359:A:H2'	1:AA:1360:A:H5'	1.70	0.73
1:AA:2309:A:N3	1:AA:2310:A:H8	1.85	0.73
20:AU:76:CYS:HB3	20:AU:96:ILE:HD13	1.69	0.73
1:BA:1287:A:N7	13:B0:107:ASP:HB3	2.03	0.73
3:BD:130:ALA:C	3:BD:131:LEU:HD12	2.13	0.73
42:DO:46:LYS:NZ	42:DO:47:LYS:HD3	2.03	0.73
1:AA:323:G:H5'	5:AF:169:ASN:HD21	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:674:G:C1'	5:AF:74:ARG:HD3	2.17	0.73
6:AG:81:LYS:O	6:AG:82:LEU:CB	2.36	0.73
6:AG:107:LEU:HD21	6:AG:178:PHE:CD1	2.23	0.73
27:A5:56:LYS:HD2	27:A5:56:LYS:H	1.52	0.73
1:BA:566:U:OP1	11:BO:29:LYS:HE3	1.88	0.73
1:BA:1300:U:H4'	1:BA:1301:A:H5''	1.69	0.73
12:BP:134:ARG:HH22	21:BV:122:ARG:NH1	1.85	0.73
14:BQ:59:LYS:HD2	14:BQ:60:GLY:N	1.98	0.73
14:BQ:78:LEU:HD11	14:BQ:107:GLU:HB3	1.69	0.73
29:B7:19:ARG:HG2	29:B7:19:ARG:NH1	2.03	0.73
31:CA:156:G:H1	31:CA:165:C:N4	1.85	0.73
31:CA:1004:A:C4	31:CA:1025:U:C2	2.76	0.73
43:CP:3:ARG:HG2	43:CP:9:ILE:CG1	2.18	0.73
31:DA:350:G:H5'	31:DA:351:G:OP2	1.88	0.73
31:DA:1298:C:H41	37:DJ:114:ARG:HB3	1.51	0.73
31:DA:1320:C:O2	49:DV:36:ARG:NH2	2.21	0.73
35:DH:51:VAL:HB	35:DH:52:PRO:HD3	1.69	0.73
39:DL:85:LEU:HD13	39:DL:92:TYR:HD2	1.52	0.73
50:DW:87:LYS:O	50:DW:91:LEU:HG	1.88	0.73
1:AA:1047:G:H2'	1:AA:1110:G:N1	2.03	0.73
6:AG:107:LEU:HD21	6:AG:178:PHE:CE1	2.23	0.73
4:BE:81:ILE:HG22	4:BE:82:ARG:H	1.52	0.73
28:B6:18:ARG:NH2	28:B6:43:CYS:SG	2.60	0.73
31:CA:1132:C:H2'	31:CA:1133:G:H8	1.51	0.73
31:CA:1412:C:H2'	31:CA:1413:A:C8	2.24	0.73
42:CO:3:THR:H	42:CO:6:GLN:HE21	1.37	0.73
31:DA:976:G:N2	31:DA:1362:C:H2'	2.03	0.73
31:DA:1145:C:O2'	31:DA:1146:A:N7	2.21	0.73
40:DM:33:GLN:HB2	40:DM:75:ILE:HG12	1.69	0.73
1:AA:71:A:C2	19:AT:31:HIS:HE1	2.06	0.73
9:AM:58:ASP:H	9:AM:60:ILE:HD11	1.54	0.73
12:AP:27:VAL:HG23	12:AP:138:ASP:OD2	1.89	0.73
1:BA:483:A:H5'	20:BU:49:VAL:HG22	1.69	0.73
1:BA:2219:G:H2'	1:BA:2224:G:H5'	1.69	0.73
1:BA:2840:C:C5'	13:B0:53:HIS:HD2	1.96	0.73
3:BD:137:PRO:O	3:BD:140:THR:HG23	1.87	0.73
4:BE:52:LEU:O	4:BE:52:LEU:CD2	2.33	0.73
4:BE:197:ILE:HD11	4:BE:199:ARG:HH21	1.52	0.73
11:BO:47:ASP:OD2	11:BO:49:ARG:CG	2.33	0.73
28:B6:38:LYS:HZ2	28:B6:46:HIS:HD2	1.36	0.73
31:CA:390:C:O3'	46:CS:28:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1073:U:H2'	31:CA:1074:G:H8	1.50	0.73
53:CD:55:U:H3	53:CD:59:A:H62	1.36	0.73
31:DA:620:C:H2'	31:DA:621:A:O4'	1.88	0.73
34:DG:31:CYS:C	34:DG:33:MET:H	1.94	0.73
1:AA:1786:A:H1'	1:AA:1938:A:N6	2.03	0.73
3:AD:69:ARG:NH2	3:AD:128:GLY:O	2.20	0.73
4:AE:3:GLY:HA3	4:AE:81:ILE:HG13	0.85	0.73
11:AO:15:ARG:HH11	11:AO:15:ARG:CB	2.01	0.73
28:A6:40:CYS:HA	28:A6:46:HIS:HA	1.69	0.73
1:BA:9:U:C4	1:BA:2629:A:C6	2.76	0.73
1:BA:1024:G:H3'	1:BA:1025:G:H5''	1.70	0.73
1:BA:2292:C:O2'	1:BA:2293:C:H5'	1.87	0.73
1:BA:2392:A:C8	11:BO:60:MET:HB2	2.24	0.73
11:BO:50:ARG:HH21	11:BO:50:ARG:CG	2.01	0.73
12:BP:27:VAL:CG1	12:BP:105:GLU:OE2	2.33	0.73
24:BW:17:SER:HB2	24:BW:18:PRO:C	2.12	0.73
34:CG:92:VAL:O	34:CG:96:LEU:HD22	1.88	0.73
35:CH:10:MET:SD	35:CH:13:ILE:HD13	2.28	0.73
31:DA:1348:U:H3	31:DA:1374:A:H2	1.37	0.73
1:AA:1292:U:H2'	1:AA:1293:C:C6	2.24	0.73
1:AA:1394:U:C5	1:AA:1395:A:C5	2.75	0.73
16:A1:98:LEU:HD23	16:A1:99:ALA:N	2.03	0.73
1:BA:2112:G:N2	53:DD:57:C:N3	2.36	0.73
1:BA:2393:A:H5'	11:BO:62:LEU:CB	2.15	0.73
6:BG:173:LEU:O	6:BG:178:PHE:HB2	1.88	0.73
7:BH:151:ILE:C	7:BH:152:ARG:HG3	2.14	0.73
14:BQ:24:LEU:HB2	14:BQ:85:VAL:HG12	1.70	0.73
17:B2:76:LYS:HB2	17:B2:80:GLN:HB3	1.67	0.73
19:BT:8:ILE:HD11	19:BT:43:VAL:HG12	1.69	0.73
26:B4:12:ALA:H	26:B4:24:THR:HG21	1.53	0.73
31:CA:673:G:H2'	31:CA:674:G:C8	2.23	0.73
31:DA:328:C:H4'	31:DA:329:A:H5'	1.71	0.73
51:DX:5:ASP:O	51:DX:11:GLY:HA3	1.87	0.73
1:AA:1899:G:H22	1:AA:1902:C:H41	0.75	0.73
1:AA:1952:A:C6	10:AN:22:ILE:HD11	2.23	0.73
1:AA:2233:U:H2'	1:AA:2234:G:C8	2.23	0.73
3:AD:17:THR:HG22	3:AD:204:ILE:HA	1.70	0.73
9:AM:26:LEU:O	9:AM:30:ILE:HG13	1.89	0.73
13:A0:24:GLN:HE22	13:A0:36:THR:HG21	1.54	0.73
14:AQ:28:VAL:HG11	14:AQ:98:VAL:HG13	1.68	0.73
14:AQ:34:HIS:HB2	14:AQ:36:TYR:HE1	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BR:90:GLN:HE22	15:BR:121:ILE:HD11	1.54	0.73
21:BV:158:PRO:HG2	21:BV:161:VAL:H	1.54	0.73
31:DA:179:A:H2'	31:DA:180:U:C6	2.24	0.73
34:DG:62:GLN:HE22	34:DG:65:ARG:HE	1.36	0.73
1:AA:822:U:C2'	1:AA:823:G:H5'	2.18	0.73
5:AF:118:ALA:HB2	5:AF:123:LEU:HD23	1.70	0.73
12:AP:78:PRO:O	12:AP:79:LEU:CB	2.37	0.73
30:A8:8:LYS:O	30:A8:12:LYS:HG3	1.89	0.73
1:BA:141:A:C8	1:BA:1408:C:H1'	2.23	0.73
1:BA:1800:C:OP2	3:BD:183:ARG:NH2	2.21	0.73
1:BA:2557:G:H2'	1:BA:2558:C:C6	2.24	0.73
12:BP:26:TYR:CE1	12:BP:139:GLU:CG	2.71	0.73
31:DA:974:A:P	44:DQ:41:ARG:HH12	2.11	0.73
31:DA:997:U:H2'	31:DA:998:G:C8	2.24	0.73
33:DF:40:ARG:HG2	33:DF:55:VAL:HG11	1.70	0.73
1:AA:771:G:OP1	29:A7:10:ARG:NH1	2.21	0.73
1:AA:1036:G:OP1	7:AH:59:ARG:HB2	1.89	0.73
6:AG:80:PHE:O	6:AG:81:LYS:O	2.07	0.73
13:A0:44:LEU:HD22	13:A0:48:VAL:HG23	1.69	0.73
20:AU:84:ARG:HH12	20:AU:97:ARG:HB2	1.54	0.73
21:AV:109:ALA:HB1	21:AV:144:LEU:HB2	1.70	0.73
24:AW:46:GLN:HA	24:AW:46:GLN:OE1	1.88	0.73
26:B4:16:CYS:HA	26:B4:33:VAL:HG23	1.71	0.73
33:CF:34:LEU:CD2	33:CF:38:ARG:HH11	2.02	0.73
31:DA:976:G:H5'	31:DA:1358:U:O2'	1.88	0.73
31:DA:1177:G:OP2	39:DL:97:LYS:NZ	2.21	0.73
32:DE:54:THR:HG23	32:DE:199:TYR:HB3	1.71	0.73
37:DJ:105:VAL:O	37:DJ:109:ASN:ND2	2.20	0.73
50:DW:49:ALA:HA	50:DW:52:ALA:HB3	1.71	0.73
53:DC:16:C:O2'	53:DC:62:C:OP1	2.05	0.73
4:AE:23:VAL:HA	4:AE:186:GLY:H	1.54	0.73
9:AM:128:HIS:HD2	9:AM:129:PRO:O	1.72	0.73
22:A3:53:MET:HB2	22:A3:59:LEU:HD23	1.69	0.73
7:BH:127:GLU:HG2	7:BH:128:PRO:CD	2.14	0.73
11:BO:146:VAL:HG13	11:BO:147:LEU:HD13	1.70	0.73
12:BP:7:MET:HB3	12:BP:10:ARG:NH2	2.03	0.73
17:B2:71:LEU:CA	17:B2:86:GLY:HA2	2.19	0.73
18:BS:65:LEU:HD13	18:BS:68:ARG:HD2	1.71	0.73
28:B6:25:LYS:CD	30:B8:34:TRP:CH2	2.67	0.73
34:CG:31:CYS:HB3	34:CG:33:MET:HB2	1.71	0.73
49:CV:40:ILE:HG12	49:CV:41:VAL:HG13	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:23:A:O2'	52:CB:24:C:OP1	2.06	0.73
34:DG:101:LEU:HD23	34:DG:121:VAL:CG1	2.19	0.73
52:DB:59:U:O2'	52:DB:70:G:H4'	1.88	0.73
1:AA:534:U:H5'	16:A1:42:ALA:HB1	1.70	0.72
1:AA:1069:A:H4'	1:AA:1070:A:C5'	2.19	0.72
1:AA:1412:A:H2'	1:AA:1413:G:C8	2.24	0.72
5:AF:32:LEU:C	5:AF:32:LEU:HD12	2.14	0.72
8:AK:13:GLY:HA3	8:AK:17:GLN:OE1	1.88	0.72
12:AP:23:GLY:HA2	12:AP:25:ASP:HB2	1.71	0.72
12:AP:90:VAL:O	12:AP:90:VAL:HG12	1.89	0.72
24:AW:16:LEU:O	24:AW:16:LEU:HG	1.88	0.72
1:BA:204:A:O2'	1:BA:205:G:OP2	2.06	0.72
3:BD:48:ARG:HG3	3:BD:48:ARG:HH11	1.52	0.72
4:BE:56:PRO:CB	4:BE:57:LYS:HE2	2.13	0.72
4:BE:179:GLU:HB3	4:BE:181:LEU:HD22	1.71	0.72
5:BF:83:PHE:O	5:BF:84:VAL:HB	1.87	0.72
13:B0:87:TYR:HE1	13:B0:117:VAL:HG12	1.53	0.72
16:B1:66:ASN:HD21	16:B1:70:ARG:HE	1.37	0.72
17:B2:77:ALA:O	17:B2:78:LYS:CD	2.32	0.72
30:B8:22:VAL:HB	30:B8:50:LEU:HD23	0.75	0.72
31:DA:631:G:H5''	31:DA:632:A:N7	2.04	0.72
31:DA:920:U:H2'	31:DA:921:U:C6	2.23	0.72
1:AA:232:G:H8	1:AA:232:G:OP2	1.69	0.72
1:AA:2306:C:H3'	1:AA:2307:G:C5'	2.19	0.72
17:A2:44:LYS:HD2	17:A2:45:THR:H	1.52	0.72
24:AW:17:SER:HB3	24:AW:67:LYS:HD3	1.70	0.72
1:BA:287:C:H2'	1:BA:288:C:C6	2.24	0.72
1:BA:1864:U:OP1	1:BA:2410:G:O2'	2.04	0.72
7:BH:168:PRO:O	7:BH:169:VAL:HG12	1.88	0.72
12:BP:19:GLY:HA3	12:BP:98:LYS:HZ2	1.54	0.72
26:B4:58:ARG:O	26:B4:61:ARG:HB3	1.89	0.72
29:B7:8:ASN:C	29:B7:8:ASN:HD22	1.95	0.72
33:CF:107:GLN:N	33:CF:107:GLN:OE1	2.21	0.72
38:CK:64:LYS:HB3	38:CK:79:VAL:HG21	1.70	0.72
31:DA:452:A:O2'	31:DA:453:A:O5'	2.07	0.72
32:DE:7:VAL:HG22	32:DE:8:LYS:H	1.53	0.72
32:DE:178:ARG:HB2	32:DE:178:ARG:HH11	1.54	0.72
35:DH:9:LYS:HB2	35:DH:112:LEU:HD11	1.70	0.72
1:AA:581:C:OP1	16:A1:33:ARG:HG3	1.88	0.72
1:AA:2068:U:N3	1:AA:2430:A:C2	2.46	0.72
1:AA:2555:U:H2'	1:AA:2556:C:H5'	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AQ:10:ARG:O	14:AQ:14:VAL:HG12	1.88	0.72
1:BA:141:A:H8	1:BA:1595:G:H21	1.35	0.72
1:BA:635:C:O2'	1:BA:639:U:OP1	2.08	0.72
1:BA:2015:A:O4'	27:B5:2:ALA:CB	2.36	0.72
4:BE:182:LEU:HD12	4:BE:183:LEU:N	2.05	0.72
7:BH:78:GLY:O	7:BH:136:ILE:HG22	1.89	0.72
12:BP:32:TYR:HH	12:BP:111:GLU:CB	2.01	0.72
15:BR:90:GLN:NE2	15:BR:91:ARG:H	1.87	0.72
17:B2:73:SER:CB	17:B2:83:ARG:HA	2.15	0.72
28:B6:43:CYS:O	28:B6:44:ARG:HB2	1.89	0.72
30:B8:50:LEU:O	30:B8:51:ALA:CB	2.36	0.72
34:CG:19:LEU:HD22	34:CG:19:LEU:N	2.01	0.72
39:CL:16:ARG:HB2	39:CL:64:THR:HG22	1.69	0.72
34:DG:31:CYS:HB3	34:DG:33:MET:HB2	1.70	0.72
47:DT:67:LYS:HA	47:DT:70:ARG:HH12	1.53	0.72
53:DC:21:U:O2'	53:DC:22:A:H5'	1.89	0.72
1:AA:774:A:H2	1:AA:787:U:O2'	1.69	0.72
1:AA:784:A:C5	3:AD:229:VAL:HG21	2.24	0.72
4:AE:23:VAL:CB	4:AE:185:LYS:HA	2.18	0.72
12:AP:21:THR:O	12:AP:21:THR:HG22	1.89	0.72
1:BA:273(C):C:N3	1:BA:363(C):G:N2	2.35	0.72
1:BA:781:A:H2	1:BA:1776:G:N3	1.88	0.72
1:BA:2128:C:H4'	1:BA:2173:A:N6	2.05	0.72
1:BA:2522:U:H2'	1:BA:2523:G:H5''	1.71	0.72
4:BE:56:PRO:CG	4:BE:57:LYS:NZ	2.50	0.72
21:BV:5:LEU:HG	21:BV:47:VAL:HG21	1.72	0.72
22:B3:18:ALA:HB3	22:B3:20:ARG:HE	1.54	0.72
30:B8:50:LEU:HD22	30:B8:50:LEU:H	1.54	0.72
31:CA:619:U:O2	34:CG:135:LEU:HD22	1.90	0.72
34:CG:29:PRO:C	34:CG:30:LYS:HD3	2.13	0.72
52:CB:7:G:H3'	52:CB:8:U:C5'	2.17	0.72
31:DA:1297:C:H1'	31:DA:1298:C:OP2	1.90	0.72
33:DF:18:TRP:CD1	44:DQ:54:PRO:HA	2.23	0.72
34:DG:139:ARG:HG3	34:DG:139:ARG:NH1	1.95	0.72
42:DO:117:ARG:HB3	42:DO:122:THR:HB	1.71	0.72
50:DW:30:LYS:HG2	50:DW:80:ARG:HH22	1.55	0.72
1:AA:1329:U:H5''	1:AA:1330:C:H5	1.54	0.72
1:AA:2789:C:H1'	1:AA:2892:A:H2	1.54	0.72
3:AD:70:TRP:C	3:AD:70:TRP:CD1	2.68	0.72
4:AE:14:ILE:HD11	15:AR:14:TYR:OH	1.90	0.72
4:AE:21:VAL:HG23	4:AE:185:LYS:HD2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:96:ILE:HG12	20:AU:99:CYS:O	1.89	0.72
30:A8:61:LEU:O	30:A8:62:LEU:HB2	1.88	0.72
1:BA:1203:G:H3'	1:BA:1204:A:H5''	1.71	0.72
1:BA:2127:G:H21	1:BA:2173:A:H8	1.38	0.72
7:BH:86:GLU:CD	7:BH:86:GLU:H	1.98	0.72
26:B4:63:TYR:OH	49:DV:41:VAL:HG22	1.90	0.72
31:CA:517:G:N1	31:CA:533:A:OP2	2.21	0.72
31:CA:1118:C:OP1	39:CL:9:ARG:HD3	1.90	0.72
32:CE:60:ASP:O	32:CE:64:ARG:HG2	1.90	0.72
31:DA:973:G:O3'	44:DQ:41:ARG:NH2	2.22	0.72
53:DD:19:G:H2'	53:DD:58:A:N6	2.05	0.72
1:AA:297:C:H5''	20:AU:85:VAL:HG21	1.71	0.72
1:AA:1266:G:O4'	18:AS:15:ARG:NH2	2.23	0.72
6:AG:105:LYS:HE3	6:AG:143:GLU:OE1	1.88	0.72
14:AQ:26:LEU:HD23	14:AQ:87:PHE:HD1	1.55	0.72
15:AR:45:PHE:HE2	15:AR:63:VAL:HB	1.54	0.72
1:BA:1430:C:H2'	1:BA:1431:U:C6	2.24	0.72
1:BA:1496:A:C8	1:BA:1577:C:O2'	2.38	0.72
1:BA:1786:A:H1'	1:BA:1938:A:N6	2.04	0.72
1:BA:2485:G:H5''	12:BP:46:GLN:HE21	1.54	0.72
7:BH:118:PRO:HD2	7:BH:121:ILE:HG13	1.70	0.72
32:CE:80:ILE:HG21	32:CE:212:GLN:HA	1.72	0.72
37:CJ:24:THR:HA	37:CJ:27:ILE:HG13	1.70	0.72
38:CK:87:SER:CB	38:CK:93:VAL:H	2.03	0.72
31:DA:407:G:OP1	34:DG:115:ARG:NH2	2.22	0.72
31:DA:606:G:N2	31:DA:631:G:H2'	2.04	0.72
31:DA:1004:A:H1'	31:DA:1036:G:H1	1.50	0.72
48:DU:22:VAL:CG1	48:DU:56:THR:HA	2.20	0.72
53:DD:9:G:O2'	53:DD:10:G:C8	2.43	0.72
1:AA:1065:U:C5	1:AA:1066:U:H6	2.07	0.72
1:AA:2371:G:H4'	28:A6:45:LYS:HG2	1.69	0.72
6:AG:67:LYS:O	6:AG:67:LYS:HD2	1.88	0.72
12:AP:64:ILE:O	12:AP:65:PHE:CB	2.37	0.72
18:AS:57:ASN:O	18:AS:61:ASN:HB2	1.90	0.72
4:BE:56:PRO:HB3	4:BE:57:LYS:CD	2.18	0.72
11:BO:80:TYR:CD1	11:BO:111:ARG:HB3	2.25	0.72
28:B6:31:PRO:O	28:B6:32:ASN:HB2	1.88	0.72
30:B8:60:LEU:C	30:B8:61:LEU:HG	2.13	0.72
34:CG:112:VAL:HG12	34:CG:116:GLN:OE1	1.90	0.72
44:CQ:29:ARG:HD3	44:CQ:40:CYS:HB2	1.72	0.72
45:CR:87:ILE:CG2	45:CR:88:ARG:H	1.97	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DJ:97:GLN:HE21	37:DJ:101:LEU:HD11	1.55	0.72
1:AA:2182:G:H2'	1:AA:2183:C:C6	2.25	0.72
1:AA:2789:C:H3'	1:AA:2790:A:H5''	1.71	0.72
7:AH:153:LYS:HB3	7:AH:154:PRO:CD	2.19	0.72
14:AQ:89:ARG:HG2	14:AQ:89:ARG:O	1.87	0.72
1:BA:885:C:C4	1:BA:890:A:C6	2.77	0.72
1:BA:1557:C:H5''	1:BA:1558:A:OP2	1.89	0.72
1:BA:2105:C:H2'	1:BA:2106:G:H8	1.55	0.72
7:BH:117:PRO:HB3	7:BH:123:PHE:HE1	1.55	0.72
11:BO:57:THR:C	11:BO:59:LEU:H	1.97	0.72
17:B2:29:PRO:O	17:B2:61:VAL:HG12	1.88	0.72
31:CA:200:G:H1	31:CA:217:C:H42	1.35	0.72
31:CA:824:C:H4'	38:CK:1:MET:HB2	1.72	0.72
32:CE:185:ILE:HB	32:CE:199:TYR:HB2	1.72	0.72
50:CW:73:HIS:HB3	50:CW:74:LYS:HG2	1.69	0.72
54:C1:14:U:O2'	54:C1:15:U:O4'	2.06	0.72
1:AA:336:C:H5''	20:AU:6:HIS:CD2	2.24	0.72
1:AA:518:G:H4'	18:AS:18:ARG:HH11	1.54	0.72
1:AA:1505:C:H2'	1:AA:1506:C:C6	2.24	0.72
1:AA:2402:C:O2'	1:AA:2403:C:OP1	2.05	0.72
4:AE:57:LYS:HD3	4:AE:57:LYS:O	1.90	0.72
1:BA:2784:C:O2	4:BE:37:ARG:NH2	2.23	0.72
10:BN:119:PRO:HB2	15:BR:68:TYR:CE2	2.23	0.72
11:BO:127:ALA:O	11:BO:147:LEU:N	2.19	0.72
27:B5:20:ARG:HG2	27:B5:23:HIS:CD2	2.24	0.72
31:CA:173:U:H5''	31:CA:197:A:O4'	1.89	0.72
31:CA:765:G:H5''	31:CA:766:A:OP1	1.90	0.72
33:CF:78:GLY:O	33:CF:79:ARG:HG2	1.90	0.72
54:C1:14:U:OP1	54:C1:14:U:H4'	1.89	0.72
31:DA:736:C:H2'	31:DA:737:A:C8	2.25	0.72
31:DA:1132:C:O2'	31:DA:1133:G:H5'	1.89	0.72
31:DA:1347:G:N2	31:DA:1373:G:H2'	2.05	0.72
31:DA:1382:C:H1'	37:DJ:79:ARG:NH1	2.05	0.72
1:AA:2154:G:H2'	1:AA:2155:G:C8	2.24	0.72
1:AA:2154:G:H2'	1:AA:2155:G:H8	1.54	0.72
7:AH:153:LYS:HD2	7:AH:153:LYS:N	2.04	0.72
12:AP:26:TYR:O	12:AP:26:TYR:CD1	2.43	0.72
12:AP:79:LEU:HD22	12:AP:80:GLU:HG3	1.69	0.72
14:AQ:34:HIS:HB2	14:AQ:36:TYR:CE1	2.24	0.72
20:AU:42:VAL:HB	20:AU:67:LEU:HD11	1.71	0.72
1:BA:2309:A:H2'	1:BA:2310:A:O4'	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2748:A:C8	1:BA:2754:U:O4	2.42	0.72
27:B5:16:ARG:NH1	27:B5:17:ASP:OD1	2.23	0.72
31:DA:179:A:H2'	31:DA:180:U:H6	1.55	0.72
31:DA:1183:A:HO2'	31:DA:1184:G:P	2.11	0.72
32:DE:92:TYR:CE2	32:DE:151:GLY:HA3	2.25	0.72
33:DF:84:ILE:HD11	33:DF:88:ARG:NH2	2.05	0.72
41:DN:92:GLU:OE2	41:DN:96:ARG:NH1	2.22	0.72
3:AD:35:LYS:HA	3:AD:64:ILE:HG22	1.70	0.71
11:AO:11:GLY:O	11:AO:13:ASN:N	2.22	0.71
11:AO:55:ARG:O	11:AO:56:SER:C	2.33	0.71
1:BA:140:A:H8	1:BA:1408:C:HO2'	1.33	0.71
1:BA:1070:A:H5'	1:BA:1071:G:C5'	2.16	0.71
1:BA:2015:A:H1'	27:B5:2:ALA:HA	0.74	0.71
1:BA:2355:C:H5'	22:B3:36:ILE:HD11	1.72	0.71
1:BA:2872:G:C8	1:BA:2873:A:H2	2.08	0.71
6:BG:47:LYS:HG2	6:BG:48:GLU:N	2.04	0.71
9:BM:36:GLY:HA3	9:BM:48:MET:CE	2.19	0.71
18:BS:88:ARG:HD3	18:BS:94:ASP:OD1	1.90	0.71
52:CB:14:A:N6	52:CB:21:A:H61	1.88	0.71
31:DA:411:A:H62	31:DA:413:G:H21	1.38	0.71
31:DA:664:G:H22	31:DA:741:G:H1	1.35	0.71
53:DC:73:A:C6	53:DC:74:A:C6	2.77	0.71
1:AA:1728:G:N1	1:AA:1730:U:OP2	2.24	0.71
4:AE:119:ARG:HD3	4:AE:160:TYR:CD2	2.25	0.71
11:AO:39:LYS:HG3	11:AO:45:LEU:HD23	1.71	0.71
16:A1:69:CYS:SG	16:A1:79:PHE:HD1	2.13	0.71
23:AZ:23:LYS:HB3	23:AZ:29:GLY:HA3	1.70	0.71
1:BA:1062:G:O6	1:BA:1075:C:N4	2.23	0.71
1:BA:1169:G:H2'	1:BA:1170:G:O4'	1.90	0.71
10:BN:47:ILE:HG13	10:BN:48:PRO:HD2	1.72	0.71
10:BN:115:VAL:HG13	10:BN:121:VAL:HG21	1.72	0.71
12:BP:83:MET:N	12:BP:83:MET:SD	2.63	0.71
31:CA:498:A:H4'	31:CA:500:G:OP1	1.90	0.71
1:AA:287:C:H2'	1:AA:288:C:C6	2.25	0.71
1:AA:1597:A:H5''	1:AA:1598:C:OP1	1.91	0.71
1:AA:2199:A:H3'	1:AA:2205:C:H6	1.55	0.71
6:AG:80:PHE:O	6:AG:80:PHE:CD1	2.43	0.71
11:AO:29:LYS:HD3	11:AO:30:THR:HG22	1.72	0.71
12:AP:19:GLY:O	12:AP:98:LYS:CD	2.38	0.71
12:AP:83:MET:SD	12:AP:83:MET:N	2.63	0.71
14:AQ:26:LEU:CD2	14:AQ:87:PHE:HD1	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AQ:106:ARG:HB2	14:AQ:106:ARG:NH1	2.05	0.71
18:AS:83:LYS:O	18:AS:84:ARG:HD3	1.90	0.71
20:AU:97:ARG:HE	20:AU:98:VAL:HG23	1.54	0.71
1:BA:389:G:N1	11:BO:71:VAL:CG1	2.52	0.71
1:BA:1386:C:OP2	1:BA:1396:U:H5	1.73	0.71
1:BA:2112:G:H22	53:DD:57:C:H42	1.38	0.71
1:BA:2131:G:OP1	1:BA:2132:U:H3'	1.89	0.71
5:BF:25:PRO:CB	5:BF:28:ILE:HG13	2.18	0.71
15:BR:93:ARG:HG2	15:BR:117:ASP:CB	2.19	0.71
31:DA:130:A:C8	47:DT:63:ARG:HG3	2.24	0.71
31:DA:779:C:C2'	31:DA:780:A:H5'	2.20	0.71
31:DA:1133:G:H1	31:DA:1141:C:H42	1.37	0.71
39:DL:82:ALA:HB1	39:DL:96:LEU:HD21	1.70	0.71
3:AD:126:GLN:O	3:AD:193:VAL:HG21	1.90	0.71
7:AH:86:GLU:HG3	7:AH:165:ALA:HB3	1.72	0.71
12:AP:19:GLY:HA3	12:AP:98:LYS:NZ	2.05	0.71
12:AP:35:VAL:HG13	12:AP:130:LYS:HB3	1.72	0.71
20:AU:47:LYS:HG3	20:AU:60:PHE:CE1	2.26	0.71
1:BA:389:G:H1	11:BO:71:VAL:CG1	2.00	0.71
1:BA:2378:A:H4'	14:BQ:23:ARG:HH11	1.54	0.71
7:BH:4:ILE:HB	7:BH:6:ARG:NH1	2.05	0.71
12:BP:64:ILE:HG23	12:BP:106:VAL:CG1	2.21	0.71
21:BV:115:GLY:HA3	21:BV:174:VAL:CG1	2.21	0.71
31:CA:1004:A:H8	31:CA:1036:G:C2	2.08	0.71
31:CA:1047:G:C2'	31:CA:1048:G:H5'	2.20	0.71
32:CE:166:ASP:HB3	32:CE:169:LYS:HB2	1.72	0.71
38:CK:41:ARG:HG3	38:CK:41:ARG:HH11	1.56	0.71
39:CL:3:GLN:OE1	39:CL:20:ARG:NH1	2.24	0.71
52:CB:23:A:H3'	52:CB:24:C:C5	2.26	0.71
35:DH:81:GLU:HG2	35:DH:90:VAL:HG13	1.72	0.71
53:DD:31:G:H2'	53:DD:32:G:H8	1.52	0.71
1:AA:1171:G:C5	1:AA:1174:A:N6	2.58	0.71
1:AA:1805:U:O2	3:AD:50:THR:HB	1.90	0.71
1:AA:2348:U:H4'	28:A6:42:TRP:CD1	2.25	0.71
4:AE:74:PRO:HG2	4:AE:77:ILE:CG2	2.16	0.71
11:AO:50:ARG:HD3	30:A8:7:HIS:HD2	1.53	0.71
14:AQ:106:ARG:HA	14:AQ:110:LEU:CD1	2.18	0.71
1:BA:1678:G:N2	1:BA:1989:G:H22	1.87	0.71
1:BA:2331:G:O3'	22:B3:43:THR:HG22	1.91	0.71
4:BE:62:PRO:C	4:BE:64:LYS:H	1.97	0.71
9:BM:45:ASN:O	9:BM:45:ASN:CG	2.30	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:6:LEU:O	11:BO:7:ARG:HB3	1.89	0.71
31:CA:112:G:OP1	46:CS:27:LYS:HD2	1.90	0.71
31:CA:310:G:OP1	46:CS:27:LYS:NZ	2.24	0.71
31:CA:1180:A:OP1	39:CL:103:THR:OG1	2.07	0.71
34:CG:79:PHE:HE1	34:CG:204:ILE:HG12	1.54	0.71
41:CN:121:PRO:HG2	41:CN:126:ARG:HG3	1.72	0.71
31:DA:1170:A:O5'	31:DA:1170:A:H8	1.74	0.71
31:DA:1322:C:H2'	31:DA:1322:C:O2	1.90	0.71
31:DA:1442:G:H2'	31:DA:1443:G:O5'	1.90	0.71
43:DP:22:ILE:HB	43:DP:25:ILE:CG1	2.20	0.71
1:AA:49:A:C8	1:AA:120:U:H5	2.06	0.71
1:AA:1026:U:C4'	1:AA:1027:A:OP1	2.38	0.71
1:AA:1054:A:H2'	1:AA:1055:G:C8	2.25	0.71
1:AA:1925:C:C2'	1:AA:1926:U:H5'	2.21	0.71
1:AA:1963:U:H6	1:AA:1963:U:OP1	1.73	0.71
1:AA:2119:A:H61	1:AA:2170:A:N6	1.88	0.71
1:AA:2432:A:C4	23:AZ:33:LYS:HG2	2.25	0.71
2:AB:37:C:H2'	2:AB:38:C:H5'	1.71	0.71
11:AO:57:THR:C	11:AO:59:LEU:H	1.97	0.71
18:AS:58:ALA:CB	18:AS:64:MET:HG3	2.21	0.71
1:BA:68:G:H2'	1:BA:69:C:C6	2.25	0.71
1:BA:1171:G:H1	1:BA:1178:C:H42	1.36	0.71
1:BA:1678:G:H22	1:BA:1989:G:N2	1.87	0.71
1:BA:2148:G:H2'	1:BA:2149:G:H8	1.55	0.71
12:BP:64:ILE:HG22	12:BP:65:PHE:H	1.55	0.71
24:BW:15:LYS:HD3	24:BW:67:LYS:NZ	2.04	0.71
31:CA:192:U:H4'	50:CW:102:GLY:O	1.91	0.71
52:CB:30:A:N6	52:CB:42:U:O4	2.19	0.71
1:AA:2468:G:C4'	1:AA:2469:A:OP1	2.30	0.71
12:AP:14:ARG:HG2	12:AP:41:TRP:HH2	1.55	0.71
23:AZ:11:ARG:HB2	23:AZ:12:PRO:HD2	1.73	0.71
1:BA:228:A:H3'	1:BA:228:A:H8	1.56	0.71
1:BA:527:C:N4	1:BA:2779:U:OP2	2.23	0.71
1:BA:2836:U:H2'	1:BA:2837:G:C8	2.26	0.71
4:BE:55:ASN:H	4:BE:56:PRO:CD	2.02	0.71
5:BF:51:THR:HB	5:BF:88:VAL:HG11	1.73	0.71
14:BQ:24:LEU:HD12	14:BQ:41:ASP:HB2	1.73	0.71
15:BR:26:ASP:HB3	15:BR:91:ARG:HA	1.70	0.71
17:B2:76:LYS:HB2	17:B2:80:GLN:HB2	0.73	0.71
31:CA:1306:A:N6	31:CA:1331:G:H1'	2.06	0.71
31:CA:1442:G:C6	31:CA:1446:A:N6	2.59	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CH:126:ARG:HG3	35:CH:126:ARG:NH1	1.97	0.71
41:CN:107:SER:O	41:CN:108:ILE:HD13	1.91	0.71
53:CD:8:U:H3	53:CD:14:A:H62	1.38	0.71
31:DA:1132:C:H2'	31:DA:1133:G:C8	2.26	0.71
1:AA:674:G:H1'	5:AF:74:ARG:CD	2.18	0.71
6:AG:108:ASN:HA	26:A4:38:LYS:HB2	1.72	0.71
8:AK:29:TYR:O	8:AK:32:PRO:HD2	1.90	0.71
19:AT:15:GLU:CD	19:AT:15:GLU:H	1.98	0.71
30:A8:29:LYS:HB3	30:A8:44:LYS:HG2	1.73	0.71
1:BA:900:A:H3'	1:BA:901:A:H8	1.56	0.71
3:BD:35:LYS:CE	3:BD:64:ILE:O	2.38	0.71
3:BD:35:LYS:HD3	3:BD:64:ILE:N	2.05	0.71
3:BD:64:ILE:O	3:BD:64:ILE:HG12	1.89	0.71
28:B6:10:LEU:H	28:B6:10:LEU:HD12	1.55	0.71
30:B8:51:ALA:O	30:B8:53:PRO:N	2.24	0.71
31:CA:881:G:P	42:CO:9:ARG:HH22	2.13	0.71
31:CA:1446:A:OP1	31:CA:1446:A:C4'	2.36	0.71
43:CP:3:ARG:HG2	43:CP:9:ILE:HG12	1.73	0.71
31:DA:657:G:H21	45:DR:22:THR:HG1	1.36	0.71
1:AA:1359:A:H2	1:AA:1372:U:O4	1.72	0.71
1:AA:1729:A:H2'	1:AA:1731:G:N7	2.06	0.71
7:AH:30:LYS:CD	7:AH:81:GLU:H	2.03	0.71
26:A4:10:VAL:HG22	26:A4:11:PRO:HD2	1.71	0.71
3:BD:271:ILE:O	3:BD:272:ALA:HB3	1.91	0.71
4:BE:103:ASP:OD1	4:BE:201:THR:HG23	1.91	0.71
12:BP:23:GLY:HA2	12:BP:25:ASP:HB2	1.73	0.71
19:BT:57:LEU:CD2	19:BT:78:LYS:HB2	2.21	0.71
21:BV:108:PRO:HB3	21:BV:141:VAL:O	1.90	0.71
23:BZ:85:LEU:HB2	23:BZ:87:PRO:HD2	1.73	0.71
46:CS:21:VAL:HG23	46:CS:34:GLU:O	1.90	0.71
52:CB:6:G:N2	52:CB:78:C:O2	2.22	0.71
52:DB:48:C:O2'	52:DB:49:C:OP1	2.08	0.71
1:AA:2726:U:H4'	10:AN:1:MET:HE1	1.73	0.71
6:AG:130:ASN:HB3	6:AG:160:VAL:HA	1.70	0.71
6:AG:173:LEU:HD22	6:AG:178:PHE:CE2	2.26	0.71
7:AH:153:LYS:HG3	7:AH:162:ILE:N	2.04	0.71
14:AQ:36:TYR:N	14:AQ:36:TYR:HD1	1.89	0.71
1:BA:1278:A:H2'	1:BA:1279:G:C8	2.26	0.71
1:BA:2272:U:H5''	1:BA:2273:A:OP1	1.91	0.71
27:B5:40:LYS:HE2	27:B5:44:THR:O	1.91	0.71
31:CA:93:U:H2'	31:CA:95:G:O4'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:989:C:H42	31:CA:1216:G:H1	1.36	0.71
31:CA:1027:C:C4'	31:CA:1028:C:OP1	2.38	0.71
32:CE:80:ILE:HD13	32:CE:212:GLN:HB2	1.71	0.71
36:CI:36:ARG:NH2	36:CI:38:GLU:HG2	2.06	0.71
41:CN:21:ILE:HB	41:CN:84:VAL:HG12	1.72	0.71
31:DA:1329:A:H2'	31:DA:1330:U:O4'	1.89	0.71
35:DH:60:TYR:O	35:DH:64:ARG:HG3	1.90	0.71
1:AA:483:A:H4'	20:AU:49:VAL:CA	2.20	0.70
3:AD:35:LYS:CE	3:AD:104:TYR:HB2	2.20	0.70
9:AM:1:MET:HE1	16:A1:95:LEU:CD2	2.18	0.70
9:AM:60:ILE:H	9:AM:60:ILE:HD13	1.55	0.70
27:A5:4:HIS:HB3	27:A5:5:PRO:CD	2.21	0.70
1:BA:296:C:O2'	1:BA:297:C:H5'	1.91	0.70
1:BA:2327:A:H2'	1:BA:2328:A:C8	2.26	0.70
3:BD:28:GLU:HB3	3:BD:29:PRO:CD	2.20	0.70
31:DA:1298:C:OP2	37:DJ:114:ARG:NH2	2.24	0.70
33:DF:60:ALA:HB1	40:DM:91:PRO:HG2	1.73	0.70
1:AA:2799:A:H5''	1:AA:2801:A:OP2	1.90	0.70
4:AE:46:ALA:HB2	4:AE:82:ARG:HA	1.73	0.70
7:AH:138:LYS:HA	7:AH:141:VAL:HB	1.72	0.70
1:BA:779:U:OP1	3:BD:49:ILE:HG22	1.91	0.70
4:BE:36:ARG:NH1	4:BE:85:ASN:OD1	2.24	0.70
11:BO:11:GLY:C	11:BO:13:ASN:H	1.99	0.70
11:BO:128:HIS:HA	11:BO:147:LEU:HA	1.73	0.70
17:B2:35:LEU:HG	17:B2:37:VAL:CG1	2.17	0.70
24:BW:70:GLN:HG2	24:BW:71:ASN:N	2.03	0.70
31:CA:484:G:O2'	31:CA:485:G:OP2	2.07	0.70
31:CA:827:U:C5	31:CA:872:A:N1	2.56	0.70
31:CA:1023:G:H3'	31:CA:1024:G:H5''	1.71	0.70
31:CA:1036:G:H3'	31:CA:1037:C:C6	2.26	0.70
53:CC:1:C:C2'	53:CC:2:G:OP2	2.39	0.70
31:DA:1305:G:C5'	51:DX:4:GLY:HA3	2.20	0.70
31:DA:1372:U:OP1	39:DL:72:GLY:N	2.24	0.70
53:DD:64:G:H2'	53:DD:65:G:C8	2.25	0.70
1:AA:229:A:H1'	1:AA:230:U:OP2	1.91	0.70
1:AA:943:U:O2'	1:AA:944:G:H5'	1.91	0.70
1:AA:1056:G:H21	1:AA:1103:A:N6	1.66	0.70
1:AA:1379:A:H1'	1:AA:1380:G:OP1	1.90	0.70
1:AA:1798:U:H5''	3:AD:259:THR:HG22	1.70	0.70
4:AE:23:VAL:HG12	4:AE:184:VAL:O	1.86	0.70
7:AH:94:TYR:CE1	7:AH:107:VAL:O	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A5:33:CYS:HB2	27:A5:40:LYS:HD3	1.73	0.70
28:A6:25:LYS:HZ2	28:A6:27:LYS:HE2	1.54	0.70
1:BA:362:U:H5'	1:BA:363:G:OP2	1.91	0.70
1:BA:2311:A:N3	6:BG:82:LEU:HG	2.06	0.70
1:BA:2394:C:OP1	11:BO:62:LEU:HB2	1.90	0.70
8:BK:79:ILE:HB	8:BK:142:VAL:HB	1.72	0.70
11:BO:15:ARG:CG	11:BO:15:ARG:NH1	2.39	0.70
31:CA:411:A:C5	31:CA:413:G:H1'	2.27	0.70
52:CB:7:G:H3'	52:CB:8:U:H5'	1.72	0.70
1:AA:85:G:OP2	20:AU:9:LYS:HB2	1.90	0.70
1:AA:299:A:H5'	1:AA:300:A:OP2	1.91	0.70
1:AA:2209:C:O2	1:AA:2216:G:C2	2.44	0.70
4:AE:22:PRO:C	4:AE:23:VAL:HG22	2.15	0.70
7:AH:115:VAL:HG12	7:AH:115:VAL:O	1.90	0.70
9:AM:45:ASN:H	9:AM:45:ASN:HD22	1.37	0.70
15:AR:26:ASP:HB2	15:AR:91:ARG:HA	1.72	0.70
1:BA:1225:C:C3'	17:B2:85:LYS:HB3	2.22	0.70
1:BA:1459:G:C2'	1:BA:1460:A:H5'	2.20	0.70
1:BA:2298:A:H1'	1:BA:2321:G:N2	2.05	0.70
12:BP:19:GLY:H	12:BP:98:LYS:NZ	1.88	0.70
17:B2:5:VAL:HA	17:B2:37:VAL:HB	1.74	0.70
17:B2:69:LYS:HG3	17:B2:86:GLY:HA3	1.74	0.70
31:CA:693:G:C4	54:C1:13:U:H1'	2.26	0.70
38:CK:41:ARG:NH2	38:CK:123:GLU:OE1	2.24	0.70
36:DI:11:ASN:O	36:DI:14:LEU:HD22	1.90	0.70
44:DQ:22:THR:OG1	44:DQ:33:VAL:HG11	1.91	0.70
48:DU:53:ARG:HG3	48:DU:63:GLN:NE2	2.00	0.70
1:AA:602:G:N2	1:AA:655:A:C8	2.58	0.70
1:AA:2346:A:O2'	28:A6:24:GLU:OE2	2.09	0.70
4:AE:8:LYS:HE3	4:AE:24:THR:HG21	1.72	0.70
1:BA:777:A:O2'	1:BA:778:G:H5'	1.90	0.70
4:BE:47:VAL:HG11	4:BE:49:LEU:HD23	1.73	0.70
4:BE:48:GLN:NE2	4:BE:78:LEU:HD13	2.07	0.70
7:BH:102:ALA:HA	7:BH:117:PRO:HD3	1.73	0.70
8:BK:128:LEU:O	8:BK:138:ILE:HG22	1.92	0.70
10:BN:7:TYR:HE1	10:BN:20:MET:HE3	1.56	0.70
34:CG:25:ARG:O	34:CG:28:SER:N	2.24	0.70
35:CH:15:ARG:HD2	35:CH:26:PHE:CD2	2.27	0.70
42:DO:47:LYS:CB	42:DO:48:PRO:HD2	2.22	0.70
1:AA:779:U:OP1	3:AD:49:ILE:HG13	1.91	0.70
1:AA:1270:C:H5''	1:AA:1271:G:H5'	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2315:G:H2'	1:AA:2316:C:H6	1.57	0.70
1:AA:2392:A:C8	11:AO:60:MET:HB2	2.27	0.70
3:AD:110:GLY:O	3:AD:112:GLN:HG3	1.92	0.70
3:AD:120:GLY:O	3:AD:123:ALA:HB2	1.91	0.70
4:AE:39:PRO:HA	4:AE:43:GLY:H	1.55	0.70
6:AG:173:LEU:O	6:AG:178:PHE:HB2	1.92	0.70
9:AM:131:GLN:HE21	9:AM:132:ALA:H	1.39	0.70
11:AO:58:THR:HG22	11:AO:58:THR:O	1.92	0.70
14:AQ:83:LYS:O	14:AQ:109:GLY:CA	2.40	0.70
22:A3:83:PRO:O	22:A3:84:LEU:HB2	1.90	0.70
1:BA:2211:G:H3'	1:BA:2212:A:N3	2.05	0.70
3:BD:25:THR:C	3:BD:27:THR:H	1.96	0.70
3:BD:35:LYS:HA	3:BD:64:ILE:HG23	1.74	0.70
53:CD:9:G:H4'	53:CD:47:G:H5'	1.74	0.70
31:DA:600:C:H2'	31:DA:601:C:C6	2.26	0.70
1:AA:1771:C:C1'	1:AA:1786:A:C8	2.75	0.70
5:AF:129:PHE:HA	5:AF:142:TRP:NE1	2.06	0.70
14:AQ:106:ARG:NH2	14:AQ:107:GLU:HB2	2.05	0.70
17:A2:24:LYS:HA	17:A2:92:THR:HG23	1.74	0.70
1:BA:2307:G:O2'	1:BA:2308:G:N7	2.24	0.70
7:BH:152:ARG:HB2	7:BH:154:PRO:HD3	1.72	0.70
20:BU:61:ILE:HG22	20:BU:62:GLU:H	1.57	0.70
24:BW:17:SER:OG	24:BW:18:PRO:HA	1.91	0.70
31:CA:611:A:N6	31:CA:629:G:H1	1.88	0.70
31:CA:658:G:C5	31:CA:659:U:C5	2.79	0.70
31:CA:1047:G:H2'	31:CA:1048:G:H5'	1.72	0.70
31:DA:1449:C:O3'	31:DA:1450:U:H4'	1.89	0.70
35:DH:102:ALA:HB1	35:DH:106:PRO:HG2	1.73	0.70
42:DO:23:LYS:HE2	42:DO:23:LYS:N	1.99	0.70
49:DV:9:VAL:O	49:DV:10:PHE:CB	2.39	0.70
1:AA:10:G:N2	1:AA:2802:G:OP1	2.25	0.70
2:AB:52:A:H62	14:AQ:33:LYS:HG3	1.56	0.70
6:AG:109:VAL:HG13	26:A4:33:VAL:HG21	1.73	0.70
16:A1:98:LEU:HD23	16:A1:98:LEU:C	2.17	0.70
17:A2:25:LEU:H	17:A2:92:THR:CG2	2.05	0.70
6:BG:104:GLU:HG2	26:B4:23:GLU:HG2	1.74	0.70
15:BR:47:GLY:HA3	15:BR:63:VAL:HG12	1.74	0.70
17:B2:28:GLU:O	17:B2:61:VAL:HG11	1.92	0.70
24:BW:9:GLN:HE22	24:BW:56:GLN:HG2	1.56	0.70
53:CD:15:G:H2'	53:CD:60:A:C2	2.27	0.70
34:DG:107:ARG:HG2	34:DG:107:ARG:NH1	1.96	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1085:A:H4'	1:AA:1086:A:OP1	1.91	0.70
1:AA:1111:A:H5'	7:AH:3:ARG:NH1	2.07	0.70
1:AA:1147:C:H2'	1:AA:1148:A:H5''	1.73	0.70
1:AA:2469:A:H5''	1:AA:2469:A:N3	2.07	0.70
5:BF:34:TRP:CH2	11:BO:8:PRO:HB3	2.27	0.70
11:BO:64:LYS:HD3	30:B8:25:MET:SD	2.31	0.70
38:CK:25:ASP:OD2	38:CK:60:ARG:HG2	1.90	0.70
39:CL:81:ILE:O	39:CL:85:LEU:HG	1.91	0.70
44:CQ:12:ARG:C	44:CQ:14:PRO:HD2	2.17	0.70
45:CR:74:ASP:CG	45:CR:77:ARG:HG2	2.16	0.70
32:DE:48:MET:HA	32:DE:51:LEU:HB2	1.73	0.70
1:AA:1929:G:H4'	1:AA:1930:G:OP1	1.90	0.70
1:AA:2131:G:H1'	1:AA:2158:A:H62	1.57	0.70
1:AA:2392:A:H8	11:AO:60:MET:CB	2.04	0.70
4:AE:60:ASN:O	4:AE:61:ARG:HD2	1.92	0.70
4:AE:105:THR:OG1	4:AE:199:ARG:NH2	2.25	0.70
11:AO:64:LYS:HD2	30:A8:25:MET:CE	2.22	0.70
11:AO:84:ASN:ND2	11:AO:115:LEU:HB2	2.06	0.70
1:BA:311:A:H2	1:BA:331:A:H5''	1.57	0.70
1:BA:1651:G:OP1	13:B0:37:THR:HG21	1.92	0.70
1:BA:2016:U:H1'	27:B5:6:VAL:HG13	1.74	0.70
8:BK:75:LEU:HD23	8:BK:76:THR:H	1.57	0.70
9:BM:67:LEU:HD23	9:BM:88:GLU:HG2	1.73	0.70
14:BQ:83:LYS:HD2	14:BQ:109:GLY:H	1.57	0.70
17:B2:76:LYS:HG2	17:B2:80:GLN:HG2	1.73	0.70
30:B8:40:GLU:H	30:B8:43:GLN:HG3	1.56	0.70
34:CG:28:SER:HB3	34:CG:29:PRO:HD2	1.74	0.70
34:CG:107:ARG:NH2	34:CG:194:LEU:HD21	2.07	0.70
39:CL:18:PHE:HD1	39:CL:62:TYR:HD2	1.39	0.70
40:CM:5:ARG:HB2	40:CM:73:ASP:OD2	1.92	0.70
34:DG:3:ARG:NH2	34:DG:5:ILE:HG12	2.07	0.70
53:DD:29:C:H2'	53:DD:30:G:H8	1.57	0.70
1:AA:336:C:H5''	20:AU:6:HIS:HD2	1.57	0.69
1:AA:1287:A:C8	13:A0:107:ASP:HB3	2.27	0.69
1:AA:1514:U:O2	1:AA:1514:U:H2'	1.90	0.69
1:AA:2309:A:H2'	1:AA:2310:A:O4'	1.92	0.69
1:AA:2335:A:O2'	1:AA:2336:A:OP2	2.10	0.69
1:AA:2376:A:N1	14:AQ:87:PHE:HD2	1.90	0.69
11:AO:65:ARG:NH2	30:A8:15:LYS:HB2	1.99	0.69
13:A0:74:LYS:C	13:A0:76:VAL:H	2.00	0.69
28:A6:41:PRO:HD2	28:A6:46:HIS:H	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:888:C:H4'	1:BA:889:C:C5'	2.22	0.69
1:BA:1140:C:C1'	1:BA:1143:A:H8	2.05	0.69
1:BA:2378:A:H8	1:BA:2378:A:O5'	1.75	0.69
6:BG:111:LEU:HB2	6:BG:112:PRO:HD3	1.73	0.69
17:B2:82:ARG:NH1	17:B2:82:ARG:HG3	2.05	0.69
31:CA:74:C:H42	31:CA:96:G:H1	1.39	0.69
31:CA:1118:C:H1'	31:CA:1179:A:C4	2.27	0.69
31:CA:1181:G:C2	31:CA:1182:G:N2	2.60	0.69
37:CJ:16:LEU:HD12	39:CL:42:ARG:HA	1.72	0.69
52:CB:27:G:H3'	52:CB:28:C:H6	1.57	0.69
53:CD:19:G:H2'	53:CD:58:A:N6	2.07	0.69
33:DF:11:ARG:O	33:DF:14:ILE:O	2.11	0.69
52:DB:5:A:H61	52:DB:79:U:H3	1.40	0.69
1:AA:1060:U:H5'	1:AA:1061:U:H5	1.57	0.69
1:AA:1992:G:O2'	1:AA:1993:U:OP2	2.09	0.69
1:AA:2383:G:O2'	1:AA:2384:G:H5'	1.92	0.69
3:AD:72:LYS:HE3	3:AD:75:ILE:HD12	1.72	0.69
8:AK:130:TYR:C	8:AK:131:LYS:HD2	2.17	0.69
9:AM:89:LYS:O	9:AM:93:THR:HG22	1.92	0.69
12:AP:24:GLY:CA	12:AP:25:ASP:HB3	2.05	0.69
1:BA:460:A:H5''	1:BA:461:C:OP2	1.92	0.69
1:BA:943:U:OP2	11:BO:36:LYS:HE3	1.91	0.69
1:BA:1794:U:O2'	1:BA:1795:C:H5'	1.92	0.69
5:BF:103:LYS:HA	5:BF:106:ARG:HG3	1.72	0.69
15:BR:8:LYS:HB3	15:BR:8:LYS:HZ2	1.57	0.69
16:B1:110:VAL:O	16:B1:114:LYS:HG2	1.91	0.69
28:B6:25:LYS:HE3	30:B8:34:TRP:CH2	2.27	0.69
28:B6:35:GLU:O	28:B6:36:LEU:HB2	1.91	0.69
31:CA:182:U:H2'	31:CA:182:U:O2	1.92	0.69
31:CA:280:C:H3'	31:CA:281:G:H5'	1.74	0.69
32:CE:61:LEU:HD11	32:CE:66:GLY:HA3	1.74	0.69
49:CV:42:PRO:O	49:CV:45:VAL:HG22	1.92	0.69
40:DM:33:GLN:CB	40:DM:75:ILE:HG12	2.21	0.69
1:AA:2276:G:P	12:AP:84:GLY:HA2	2.32	0.69
11:AO:114:ILE:HD11	11:AO:130:PHE:CD1	2.27	0.69
1:BA:1142(A):A:C8	1:BA:1144:G:N7	2.60	0.69
1:BA:1434:A:H61	1:BA:1558:A:H62	1.40	0.69
3:BD:35:LYS:CA	3:BD:64:ILE:HG23	2.22	0.69
13:B0:67:LEU:HD12	13:B0:76:VAL:HG21	1.74	0.69
25:BX:59:VAL:HG12	25:BX:60:GLU:N	2.07	0.69
33:CF:58:GLU:H	33:CF:65:ALA:HB3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CV:32:LYS:HA	49:CV:50:ALA:HB3	1.75	0.69
50:CW:26:ASN:HA	50:CW:29:LYS:HG2	1.74	0.69
32:DE:185:ILE:CG2	32:DE:199:TYR:HB2	2.20	0.69
42:DO:23:LYS:H	42:DO:23:LYS:CE	1.99	0.69
1:AA:1771:C:C1'	1:AA:1786:A:H8	2.06	0.69
3:AD:35:LYS:CD	3:AD:63:ARG:HB3	2.19	0.69
3:AD:148:GLU:HB2	3:AD:151:LYS:HD2	1.73	0.69
8:AK:7:GLU:HA	8:AK:15:VAL:HG12	1.73	0.69
13:A0:117:VAL:HG22	13:A0:118:GLU:H	1.56	0.69
15:AR:11:GLU:N	15:AR:11:GLU:OE1	2.25	0.69
16:A1:79:PHE:HD2	16:A1:79:PHE:C	1.99	0.69
21:AV:45:ASP:O	21:AV:49:ARG:HG2	1.92	0.69
1:BA:528:A:C2	1:BA:2042:A:H2'	2.26	0.69
1:BA:960:A:H61	12:BP:83:MET:HE2	1.58	0.69
1:BA:1188:U:H2'	1:BA:1189:A:H5'	1.73	0.69
3:BD:43:ARG:NH1	3:BD:44:ASN:ND2	2.37	0.69
21:BV:120:ILE:HB	21:BV:169:GLU:OE2	1.93	0.69
26:B4:56:VAL:HG23	26:B4:60:GLN:HG3	1.74	0.69
38:CK:29:SER:HB3	38:CK:32:LYS:HE3	1.74	0.69
31:DA:818:G:O2'	31:DA:819:A:H5'	1.92	0.69
1:AA:860:U:C5	1:AA:917:A:C2	2.75	0.69
1:AA:1219:G:OP2	16:A1:19:LYS:HE3	1.91	0.69
4:AE:23:VAL:HA	4:AE:186:GLY:N	2.07	0.69
14:AQ:4:LEU:O	14:AQ:5:THR:HG23	1.93	0.69
14:AQ:88:ASP:O	14:AQ:89:ARG:CB	2.31	0.69
19:AT:83:VAL:HG13	19:AT:87:GLN:HB3	1.74	0.69
1:BA:140:A:C8	1:BA:1408:C:O2'	2.45	0.69
1:BA:1485:G:O2'	1:BA:1486:A:H5'	1.91	0.69
1:BA:2154:G:H2'	1:BA:2155:G:C8	2.28	0.69
1:BA:2872:G:C5	1:BA:2873:A:C2	2.79	0.69
2:BB:50:G:OP1	14:BQ:63:THR:HG23	1.92	0.69
3:BD:267:SER:O	3:BD:268:ARG:HB3	1.89	0.69
16:B1:91:ASP:O	16:B1:93:LYS:N	2.26	0.69
38:CK:81:HIS:ND1	38:CK:138:TRP:OXT	2.25	0.69
41:CN:85:ARG:HD3	41:CN:113:PRO:HD3	1.74	0.69
32:DE:12:GLU:HB2	32:DE:16:HIS:CE1	2.28	0.69
1:AA:593:G:C1'	30:A8:4:MET:HE1	2.23	0.69
1:AA:2015:A:C1'	27:A5:2:ALA:CA	2.36	0.69
1:AA:2693:A:H2'	1:AA:2694:G:H8	1.58	0.69
3:AD:131:LEU:HB2	3:AD:136:ILE:HD11	1.74	0.69
20:AU:78:ALA:HB3	20:AU:81:LYS:HZ2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:780:G:H21	1:BA:783:A:H62	1.40	0.69
3:BD:48:ARG:HG3	3:BD:48:ARG:NH1	2.07	0.69
12:BP:135:ASP:OD1	12:BP:137:TYR:HD2	1.75	0.69
27:B5:3:LYS:CA	27:B5:3:LYS:CE	2.56	0.69
28:B6:23:THR:O	28:B6:24:GLU:HB2	1.93	0.69
33:CF:92:ALA:HB2	33:CF:99:VAL:HG22	1.74	0.69
38:CK:14:ARG:O	38:CK:18:ARG:HD3	1.90	0.69
31:DA:164:U:H2'	31:DA:165:C:H6	1.57	0.69
34:DG:30:LYS:HG2	34:DG:30:LYS:O	1.89	0.69
1:AA:1204:A:O2'	1:AA:1205:U:OP2	2.10	0.69
1:AA:1412:A:H2'	1:AA:1413:G:H8	1.58	0.69
3:AD:35:LYS:CG	3:AD:64:ILE:N	2.55	0.69
4:AE:111:ARG:HD2	4:AE:160:TYR:CD1	2.26	0.69
6:AG:82:LEU:C	6:AG:86:MET:HE1	2.18	0.69
14:AQ:35:ILE:C	14:AQ:36:TYR:HD1	2.00	0.69
1:BA:669:G:O2'	1:BA:670:A:OP1	2.11	0.69
1:BA:997:G:OP1	16:B1:93:LYS:HD2	1.93	0.69
4:BE:132:HIS:O	4:BE:133:LYS:CB	2.36	0.69
5:BF:107:LYS:HE2	5:BF:205:ARG:HD2	1.74	0.69
12:BP:102:VAL:HG12	12:BP:102:VAL:O	1.91	0.69
21:BV:150:LEU:O	21:BV:170:THR:O	2.10	0.69
35:CH:67:VAL:HG21	35:CH:140:ARG:HA	1.73	0.69
32:DE:91:PRO:HG3	32:DE:154:LEU:HB3	1.75	0.69
1:AA:811:U:C4	11:AO:21:ARG:NH2	2.61	0.69
1:AA:911:A:H2'	12:AP:9:TYR:OH	1.93	0.69
1:AA:2502:G:H5''	1:AA:2503:A:H5''	1.74	0.69
1:AA:2898:U:H2'	1:AA:2899:G:C8	2.27	0.69
3:AD:35:LYS:HG2	3:AD:64:ILE:HG23	1.75	0.69
5:AF:205:ARG:HG3	5:AF:205:ARG:NH1	2.01	0.69
6:AG:2:PRO:HB3	26:A4:25:TYR:CE1	2.27	0.69
7:AH:151:ILE:O	7:AH:153:LYS:HD3	1.92	0.69
18:AS:64:MET:O	18:AS:65:LEU:HB2	1.93	0.69
19:AT:84:ALA:HB3	19:AT:87:GLN:NE2	2.08	0.69
20:AU:81:LYS:HZ3	20:AU:96:ILE:HD12	1.56	0.69
26:A4:63:TYR:OH	49:CV:41:VAL:O	2.08	0.69
1:BA:443:A:H5''	1:BA:444:C:OP1	1.93	0.69
1:BA:1270:C:H5''	1:BA:1271:G:O5'	1.93	0.69
1:BA:1313:U:H4'	1:BA:1332:G:H4'	1.75	0.69
1:BA:2111:C:C2	1:BA:2118:U:O2'	2.46	0.69
4:BE:47:VAL:CG1	4:BE:48:GLN:N	2.55	0.69
4:BE:47:VAL:CG1	4:BE:49:LEU:HD23	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:51:PHE:C	4:BE:74:PRO:CB	2.65	0.69
18:BS:50:VAL:CG2	18:BS:105:VAL:HG23	2.22	0.69
22:B3:49:LYS:H	22:B3:80:HIS:HD1	1.39	0.69
30:B8:30:ARG:O	30:B8:31:HIS:CB	2.40	0.69
31:CA:310:G:P	46:CS:27:LYS:HZ1	2.16	0.69
31:CA:706:A:H1'	41:CN:29:ILE:HD11	1.75	0.69
31:CA:1218:C:OP2	44:CQ:9:LYS:NZ	2.24	0.69
33:CF:40:ARG:HH11	33:CF:40:ARG:HG3	1.58	0.69
37:CJ:57:GLU:N	37:CJ:57:GLU:OE1	2.25	0.69
39:CL:78:LYS:HE3	39:CL:101:PHE:HE2	1.56	0.69
45:CR:76:GLU:OE1	45:CR:79:ARG:NH1	2.25	0.69
31:DA:409:G:H1	31:DA:433:C:H42	1.41	0.69
31:DA:1004:A:O4'	31:DA:1025:U:N3	2.25	0.69
31:DA:1267:C:H2'	31:DA:1267:C:O2	1.92	0.69
31:DA:1305:G:H22	31:DA:1331:G:C2'	2.05	0.69
33:DF:70:VAL:O	33:DF:106:VAL:N	2.25	0.69
36:DI:33:TYR:CE1	36:DI:78:GLU:HG3	2.27	0.69
43:DP:86:CYS:O	43:DP:89:GLY:N	2.24	0.69
52:DB:18:G:O2'	52:DB:19:G:OP2	2.10	0.69
1:AA:1313:U:H2'	1:AA:1610:A:C2	2.28	0.69
1:AA:1416:G:O2'	1:AA:1417:C:O5'	2.06	0.69
1:AA:2311:A:N3	6:AG:80:PHE:CE1	2.59	0.69
3:AD:25:THR:HB	3:AD:82:ILE:H	1.56	0.69
3:AD:155:LEU:HD23	3:AD:177:LEU:HD22	1.75	0.69
12:AP:26:TYR:O	12:AP:27:VAL:C	2.34	0.69
14:AQ:88:ASP:CG	14:AQ:89:ARG:H	2.01	0.69
29:A7:8:ASN:HD22	29:A7:11:LYS:H	1.39	0.69
1:BA:857:C:H4'	22:B3:23:VAL:HG21	1.73	0.69
1:BA:1005:C:O4'	1:BA:1143:A:H2	1.75	0.69
1:BA:1006:C:C2	1:BA:1138:G:N2	2.61	0.69
13:B0:100:LEU:HD21	13:B0:113:LEU:HD13	1.73	0.69
14:BQ:19:LYS:O	14:BQ:20:ARG:HD3	1.92	0.69
26:B4:32:TYR:O	26:B4:33:VAL:HG22	1.92	0.69
30:B8:37:SER:O	30:B8:39:LYS:O	2.11	0.69
31:CA:606:G:N2	31:CA:631:G:H8	1.91	0.69
31:DA:1054:C:N4	52:DB:35:G:N9	2.40	0.69
31:DA:1178:G:H5'	39:DL:93:ARG:HH21	1.57	0.69
39:DL:10:ARG:HD2	39:DL:105:ASP:HB3	1.75	0.69
1:AA:2758:A:C2	1:AA:2759:G:H1'	2.28	0.69
4:AE:20:ALA:C	4:AE:21:VAL:HG12	2.17	0.69
5:AF:42:ALA:O	5:AF:45:ARG:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:45:ARG:HG2	5:AF:45:ARG:NH1	1.98	0.69
6:AG:78:SER:O	6:AG:79:ASN:C	2.36	0.69
6:AG:82:LEU:C	6:AG:86:MET:CE	2.66	0.69
27:A5:40:LYS:HZ2	27:A5:46:CYS:CB	2.05	0.69
1:BA:824:A:H1'	1:BA:2358:G:N7	2.07	0.69
1:BA:993:G:OP1	16:B1:50:ARG:NH2	2.25	0.69
1:BA:1689:A:H62	1:BA:1698:A:H2	0.83	0.69
1:BA:2371:G:H4'	28:B6:45:LYS:HG3	1.75	0.69
1:BA:2583:G:N2	52:DB:87:A:C8	2.55	0.69
1:BA:2688:U:H5	1:BA:2720:U:OP2	1.75	0.69
1:BA:2811:G:OP1	4:BE:61:ARG:HB2	1.93	0.69
4:BE:37:ARG:CD	4:BE:44:TYR:HH	1.89	0.69
18:BS:59:VAL:HA	18:BS:64:MET:H	1.58	0.69
26:B4:11:PRO:HA	26:B4:25:TYR:H	1.57	0.69
31:CA:667:G:H4'	45:CR:51:HIS:CE1	2.27	0.69
34:CG:13:ARG:CD	34:CG:38:TYR:O	2.41	0.69
31:DA:1286:A:H4'	51:DX:25:LYS:HZ2	1.58	0.69
37:DJ:44:TYR:HA	37:DJ:47:CYS:HB2	1.73	0.69
38:DK:109:ILE:HG12	38:DK:110:ALA:N	2.07	0.69
46:DS:15:PRO:C	46:DS:16:HIS:HD1	2.01	0.69
1:AA:475:U:C4	1:AA:481:G:O6	2.45	0.68
1:AA:2015:A:N3	27:A5:2:ALA:N	2.41	0.68
1:AA:2702:U:H6	1:AA:2702:U:OP1	1.76	0.68
6:AG:121:ASN:ND2	6:AG:123:ASN:H	1.91	0.68
11:AO:50:ARG:HG2	30:A8:59:LYS:HD3	1.75	0.68
20:AU:81:LYS:HD3	20:AU:96:ILE:HB	1.75	0.68
1:BA:654(D):G:N2	1:BA:654(R):C:N3	2.42	0.68
1:BA:712:G:H1	1:BA:719:C:N4	1.91	0.68
1:BA:1011:G:H2'	1:BA:1013:C:O4'	1.93	0.68
1:BA:2816:C:O3'	13:B0:99:LYS:NZ	2.25	0.68
1:BA:2823:A:OP1	4:BE:113:PHE:HB2	1.92	0.68
31:CA:382:A:H2'	31:CA:383:A:H8	1.57	0.68
31:CA:437:U:H2'	31:CA:438:G:O4'	1.93	0.68
31:CA:1178:G:N2	31:CA:1181:G:N7	2.31	0.68
36:CI:24:GLU:HG2	36:CI:28:ARG:HH22	1.55	0.68
31:DA:1160:G:N2	31:DA:1161:C:C6	2.61	0.68
4:AE:18:ASP:O	4:AE:19:ARG:C	2.35	0.68
6:AG:26:GLN:HG3	6:AG:30:GLU:OE2	1.93	0.68
12:AP:75:THR:HB	12:AP:88:GLY:CA	2.18	0.68
21:AV:51:ALA:HB1	21:AV:57:ILE:HD11	1.75	0.68
1:BA:247:G:H4'	1:BA:386:G:C5	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:696:G:H2'	1:BA:697:C:H6	1.58	0.68
1:BA:797:C:OP2	5:BF:62:ARG:HG3	1.93	0.68
1:BA:2147:G:H2'	1:BA:2148:G:O4'	1.92	0.68
2:BB:1:U:H3	2:BB:119:A:H2	1.40	0.68
3:BD:206:LEU:HD22	3:BD:211:ARG:HG2	1.74	0.68
13:B0:38:VAL:HG22	13:B0:112:ALA:HB2	1.73	0.68
28:B6:27:LYS:NZ	28:B6:28:ARG:HH12	1.88	0.68
31:CA:167:G:C2'	31:CA:168:G:H5'	2.24	0.68
31:CA:1299:A:H2'	31:CA:1301:U:H1'	1.75	0.68
33:CF:34:LEU:HD21	33:CF:38:ARG:HH11	1.56	0.68
36:CI:78:GLU:O	36:CI:81:ILE:HG13	1.92	0.68
31:DA:689:C:H2'	31:DA:690:G:H5'	1.76	0.68
31:DA:1016:A:H2'	31:DA:1017:G:O4'	1.93	0.68
31:DA:1285:A:H4'	31:DA:1286:A:O5'	1.93	0.68
43:DP:110:ARG:HH11	43:DP:110:ARG:CG	2.06	0.68
49:DV:9:VAL:O	49:DV:10:PHE:HB2	1.92	0.68
1:AA:443:A:H1'	1:AA:1201:C:O4'	1.92	0.68
1:AA:1803:A:H4'	3:AD:259:THR:HG21	1.74	0.68
1:AA:2373:G:H1	1:AA:2380:C:H42	1.41	0.68
1:AA:2772:C:H5'	4:AE:168:MET:CE	2.24	0.68
6:AG:115:ARG:HH22	43:CP:7:VAL:HB	1.58	0.68
7:AH:153:LYS:H	7:AH:153:LYS:HZ3	1.39	0.68
15:AR:16:ARG:HE	15:AR:19:LEU:CD2	2.03	0.68
18:AS:40:ASN:O	18:AS:41:LYS:HG2	1.94	0.68
1:BA:2646:C:OP2	1:BA:2732:G:O2'	2.09	0.68
20:BU:53:PRO:HD2	20:BU:57:GLN:O	1.92	0.68
21:BV:115:GLY:HA3	21:BV:174:VAL:HG12	1.73	0.68
31:CA:1399:C:C2	31:CA:1502:A:N6	2.61	0.68
32:CE:165:VAL:HG23	32:CE:166:ASP:N	2.08	0.68
41:CN:15:ALA:HB1	41:CN:78:GLN:HE21	1.58	0.68
41:CN:59:TYR:CZ	41:CN:63:LEU:HD11	2.28	0.68
31:DA:426:G:OP1	34:DG:38:TYR:OH	2.08	0.68
34:DG:173:TRP:HA	34:DG:187:ARG:HD3	1.74	0.68
37:DJ:136:LYS:NZ	37:DJ:140:ASP:OD1	2.26	0.68
46:DS:21:VAL:HG22	46:DS:33:ILE:HG13	1.74	0.68
53:DD:29:C:H2'	53:DD:30:G:C8	2.28	0.68
1:AA:70:G:H21	1:AA:71:A:H62	1.42	0.68
1:AA:1316:U:H2'	1:AA:1317:A:C8	2.29	0.68
1:AA:1899:G:N2	1:AA:1902:C:N4	2.24	0.68
4:AE:31:CYS:HB3	4:AE:49:LEU:HG	1.76	0.68
1:BA:847:U:C4	1:BA:933:A:C6	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1011:G:H1	1:BA:1150:C:H42	1.42	0.68
1:BA:1110:G:O2'	1:BA:1111:A:O4'	2.11	0.68
1:BA:2646:C:H2'	1:BA:2647:U:O4'	1.93	0.68
1:BA:2849:U:O4	15:BR:23:ARG:NH2	2.25	0.68
4:BE:52:LEU:O	4:BE:52:LEU:HD13	1.94	0.68
4:BE:81:ILE:O	4:BE:82:ARG:HB2	1.91	0.68
5:BF:192:LEU:HD22	5:BF:194:MET:HE2	1.75	0.68
9:BM:137:LYS:HA	9:BM:137:LYS:NZ	2.08	0.68
12:BP:21:THR:O	12:BP:21:THR:HG22	1.93	0.68
31:CA:87:A:H2'	31:CA:88:C:C6	2.28	0.68
31:CA:626:U:C2	31:CA:627:G:C8	2.82	0.68
31:CA:652:U:H1'	31:CA:653:A:C2	2.28	0.68
32:CE:18:GLY:N	32:CE:42:ILE:HG22	2.08	0.68
37:CJ:5:ARG:HG2	37:CJ:7:ALA:H	1.58	0.68
47:CT:77:VAL:O	47:CT:77:VAL:HG12	1.92	0.68
31:DA:1122:U:O4	31:DA:1123:A:N6	2.26	0.68
31:DA:1131:G:H2'	31:DA:1132:C:C6	2.27	0.68
39:DL:18:PHE:HD1	39:DL:62:TYR:HD2	1.41	0.68
40:DM:56:HIS:O	40:DM:58:ASP:O	2.12	0.68
49:DV:41:VAL:O	49:DV:44:MET:HB2	1.92	0.68
1:AA:607:U:N3	1:AA:621:A:C2	2.59	0.68
1:AA:1568:G:OP2	3:AD:63:ARG:NH2	2.25	0.68
1:AA:1689:A:N6	1:AA:1698:A:C2	2.49	0.68
1:AA:1932:A:H2'	1:AA:1933:G:O4'	1.92	0.68
1:AA:2312:U:H5'	6:AG:88:ILE:HG21	1.76	0.68
1:AA:2335:A:C8	1:AA:2337:G:C5	2.82	0.68
7:AH:3:ARG:NE	7:AH:3:ARG:HA	2.08	0.68
7:AH:86:GLU:HG3	7:AH:165:ALA:CB	2.23	0.68
7:AH:86:GLU:O	7:AH:131:VAL:O	2.10	0.68
11:AO:24:GLY:C	11:AO:26:GLY:H	1.99	0.68
16:A1:8:VAL:HG23	16:A1:11:ARG:NH2	2.08	0.68
22:A3:40:GLN:NE2	22:A3:42:GLY:O	2.26	0.68
29:A7:8:ASN:ND2	29:A7:11:LYS:N	2.29	0.68
30:A8:29:LYS:NZ	30:A8:44:LYS:HB2	2.08	0.68
3:BD:35:LYS:HZ1	3:BD:104:TYR:H	1.41	0.68
16:B1:65:ILE:HD11	16:B1:96:ALA:CB	2.24	0.68
24:BW:47:ASN:ND2	24:BW:47:ASN:H	1.91	0.68
31:CA:57:G:H2'	31:CA:58:C:C6	2.27	0.68
31:CA:1306:A:H61	31:CA:1331:G:H1'	1.58	0.68
34:CG:13:ARG:HG3	34:CG:14:ARG:N	2.07	0.68
39:DL:43:ALA:HA	39:DL:74:ILE:HD13	1.72	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DL:114:TYR:CE1	40:DM:60:ARG:O	2.47	0.68
52:DB:6:G:N2	52:DB:78:C:O2	2.24	0.68
1:AA:302:C:H2'	1:AA:303:U:H6	1.58	0.68
1:AA:619:G:H5''	1:AA:620:G:OP2	1.92	0.68
1:AA:2564:A:OP1	1:AA:2648:C:H4'	1.93	0.68
1:AA:2572:A:N7	4:AE:145:LYS:HB2	2.09	0.68
3:AD:8:PRO:HB3	3:AD:14:ARG:HB2	1.75	0.68
3:AD:123:ALA:HB1	3:AD:131:LEU:HG	1.76	0.68
7:AH:137:ASP:HB3	7:AH:140:LYS:HB3	1.75	0.68
1:BA:1342:A:C6	1:BA:1397:U:C6	2.82	0.68
1:BA:1342:A:OP1	19:BT:36:LYS:NZ	2.26	0.68
1:BA:2112:G:N3	1:BA:2169:A:N6	2.42	0.68
1:BA:2129:C:H2'	1:BA:2130:U:H5'	1.76	0.68
1:BA:2893:G:H4'	1:BA:2894:G:O5'	1.93	0.68
5:BF:8:GLN:HG2	5:BF:124:LEU:HD11	1.76	0.68
6:BG:37:VAL:HG23	6:BG:99:MET:HE3	1.74	0.68
8:BK:110:ASP:OD2	8:BK:130:TYR:HE1	1.77	0.68
10:BN:106:LEU:HD22	10:BN:111:PHE:HB2	1.76	0.68
31:CA:983:A:H5''	31:CA:984:C:OP2	1.92	0.68
32:CE:7:VAL:HG23	32:CE:8:LYS:HE2	1.76	0.68
32:CE:124:SER:HB2	32:CE:125:PRO:HD2	1.75	0.68
33:CF:70:VAL:HG12	33:CF:72:LYS:H	1.59	0.68
37:CJ:15:ASP:O	37:CJ:19:GLY:HA2	1.94	0.68
38:CK:87:SER:HB2	38:CK:93:VAL:H	1.57	0.68
33:DF:150:LYS:HG3	33:DF:169:ALA:HB2	1.75	0.68
49:DV:42:PRO:O	49:DV:43:GLU:HG2	1.94	0.68
1:AA:1141:U:H6	9:AM:63:THR:OG1	1.77	0.68
1:AA:1581:G:C6	1:AA:1582:C:C4	2.82	0.68
1:AA:2610:C:C4'	1:AA:2611:U:OP2	2.37	0.68
2:AB:15:A:O2'	2:AB:109:G:C8	2.47	0.68
4:AE:147:PRO:HB2	4:AE:149:ARG:HG2	1.76	0.68
11:AO:97:PRO:HB3	11:AO:112:LEU:HB2	1.76	0.68
15:AR:78:LEU:O	15:AR:78:LEU:HD13	1.93	0.68
1:BA:1005:C:H2'	1:BA:1006:C:C6	2.29	0.68
1:BA:2173:A:N3	1:BA:2173:A:H2'	2.08	0.68
1:BA:2419:U:O4	30:B8:31:HIS:CG	2.46	0.68
2:BB:42:C:H4'	6:BG:67:LYS:HD3	1.76	0.68
5:BF:149:ASP:OD1	5:BF:149:ASP:N	2.22	0.68
31:CA:7:G:H5'	31:CA:298:A:O4'	1.93	0.68
31:CA:750:G:N3	45:CR:23:GLY:HA3	2.09	0.68
31:CA:1269:A:H2	31:CA:1312:G:N3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1336:C:OP1	31:CA:1336:C:H4'	1.92	0.68
41:CN:17:GLY:HA3	41:CN:77:MET:HE1	1.75	0.68
31:DA:608:A:H2'	31:DA:609:A:O4'	1.92	0.68
31:DA:1378:C:H5	31:DA:1379:G:N9	1.91	0.68
32:DE:59:GLU:HG3	32:DE:221:LEU:HD11	1.74	0.68
36:DI:67:MET:HB2	36:DI:68:PRO:HD2	1.76	0.68
53:DD:57:C:H2'	53:DD:58:A:O4'	1.93	0.68
1:AA:524:U:H4'	1:AA:554:U:H4'	1.76	0.68
1:AA:535:C:O3'	16:A1:53:ARG:NH1	2.26	0.68
1:AA:1693:U:O2'	3:AD:14:ARG:NH2	2.27	0.68
1:AA:2211:G:C4'	1:AA:2212:A:OP2	2.39	0.68
3:AD:131:LEU:HD22	3:AD:136:ILE:HD13	1.75	0.68
4:AE:79:ARG:HG3	4:AE:197:ILE:HG21	1.74	0.68
6:AG:67:LYS:CE	26:A4:6:HIS:CE1	2.73	0.68
6:AG:94:LEU:HD23	6:AG:94:LEU:H	1.56	0.68
9:AM:57:ALA:O	9:AM:58:ASP:CG	2.37	0.68
15:AR:74:ARG:HD3	15:AR:76:PHE:CZ	2.28	0.68
1:BA:708:C:N4	1:BA:723:G:H1	1.92	0.68
1:BA:887:A:H3'	1:BA:888:C:H5'	1.76	0.68
9:BM:128:HIS:CE1	9:BM:134:ARG:HD2	2.29	0.68
17:B2:28:GLU:HB3	17:B2:29:PRO:CD	2.22	0.68
31:CA:626:U:H2'	31:CA:627:G:H8	1.59	0.68
31:CA:1024:G:H4'	31:CA:1024:G:OP1	1.94	0.68
34:CG:19:LEU:CD2	34:CG:19:LEU:H	2.03	0.68
37:CJ:38:LEU:O	37:CJ:38:LEU:HD12	1.94	0.68
44:DQ:26:ARG:NH1	44:DQ:47:LEU:HD21	2.08	0.68
53:DD:42:C:H2'	53:DD:43:G:C8	2.29	0.68
1:AA:1593:G:H2'	1:AA:1594:G:C8	2.29	0.68
1:AA:2349:G:OP2	30:A8:42:ARG:HD3	1.94	0.68
1:AA:2712:U:H1'	1:AA:2712(A):A:C8	2.29	0.68
2:AB:25:A:O2'	2:AB:26:A:H5'	1.93	0.68
3:AD:71:ASP:HB3	3:AD:103:ARG:HH21	1.59	0.68
20:AU:90:LEU:H	20:AU:90:LEU:HD22	1.59	0.68
1:BA:654(D):G:H1	1:BA:654(Q):C:H42	1.40	0.68
1:BA:1899:G:H22	1:BA:1902:C:H41	0.76	0.68
1:BA:1899:G:H21	1:BA:1902:C:H5	1.41	0.68
1:BA:2128:C:O2'	1:BA:2173:A:C2	2.47	0.68
4:BE:47:VAL:HG13	4:BE:48:GLN:H	1.59	0.68
5:BF:134:GLY:HA2	5:BF:166:ALA:HB2	1.76	0.68
7:BH:7:LEU:HD12	7:BH:8:PRO:HD3	1.76	0.68
8:BK:117:GLU:CD	8:BK:117:GLU:H	2.00	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BP:37:LEU:HD21	12:BP:130:LYS:HB2	1.76	0.68
15:BR:26:ASP:O	15:BR:49:VAL:HG12	1.93	0.68
31:CA:735:C:H2'	31:CA:736:C:H6	1.59	0.68
31:CA:1305:G:H5'	51:CX:4:GLY:HA3	1.76	0.68
34:CG:12:CYS:HA	34:CG:19:LEU:CD2	2.21	0.68
31:DA:963:G:H21	40:DM:55:LYS:CD	2.05	0.68
31:DA:1128:C:C2'	31:DA:1129:C:O5'	2.42	0.68
31:DA:1321:C:N4	31:DA:1322:C:N4	2.37	0.68
34:DG:101:LEU:HD23	34:DG:121:VAL:HG11	1.73	0.68
1:AA:1085:A:C2	1:AA:1086:A:N7	2.62	0.68
1:AA:1496:A:H5'	1:AA:1497:U:OP1	1.94	0.68
1:AA:2537:U:H2'	1:AA:2538:C:C6	2.28	0.68
1:AA:2895:U:H2'	1:AA:2896:C:O4'	1.94	0.68
15:AR:107:ASP:H	15:AR:110:ILE:HG23	1.59	0.68
26:A4:42:PHE:CD1	26:A4:42:PHE:O	2.47	0.68
1:BA:370:G:OP1	1:BA:403:U:N3	2.25	0.68
3:BD:49:ILE:HD11	3:BD:52:ARG:HA	1.75	0.68
11:BO:41:ARG:HD2	11:BO:41:ARG:N	2.08	0.68
11:BO:58:THR:HG22	11:BO:58:THR:O	1.92	0.68
25:BX:52:HIS:CD2	25:BX:52:HIS:H	2.11	0.68
31:CA:529:G:O6	42:CO:46:ASN:ND2	2.26	0.68
31:CA:618:C:H5''	31:CA:619:U:H5''	1.75	0.68
39:CL:26:VAL:HG13	39:CL:61:ALA:HB3	1.76	0.68
41:CN:30:VAL:HG21	41:CN:65:ALA:HA	1.75	0.68
31:DA:983:A:N1	31:DA:1222:G:N2	2.42	0.68
31:DA:1002:G:H1	31:DA:1038:C:H42	1.42	0.68
31:DA:1325:C:H4'	51:DX:17:THR:HG21	1.76	0.68
1:AA:885:C:O2	1:AA:890:A:N6	2.27	0.67
1:AA:2849:U:H1'	1:AA:2866:U:O2	1.94	0.67
5:AF:101:LEU:CD1	5:AF:102:PRO:HD2	2.20	0.67
15:AR:39:ARG:HG2	15:AR:40:THR:N	2.08	0.67
1:BA:2688:U:H3'	1:BA:2688:U:O2	1.94	0.67
2:BB:0:A:H2'	2:BB:1:U:C6	2.29	0.67
3:BD:25:THR:HG23	3:BD:26:LYS:N	2.07	0.67
29:B7:26:GLY:O	29:B7:30:VAL:HG23	1.94	0.67
31:DA:9:G:H5'	35:DH:122:GLU:OE2	1.93	0.67
31:DA:1117:G:O3'	39:DL:104:ARG:HD2	1.95	0.67
1:AA:404:C:H1'	1:AA:405:U:OP2	1.93	0.67
1:AA:2115:G:H2'	1:AA:2116:G:H8	1.57	0.67
1:AA:2580:U:H4'	4:AE:130:GLY:HA3	1.76	0.67
3:AD:186:HIS:CD2	3:AD:188:GLU:H	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:85:LEU:HA	11:AO:88:LEU:HD22	1.76	0.67
19:AT:83:VAL:CG1	19:AT:87:GLN:HB3	2.24	0.67
1:BA:2014:A:O2'	27:B5:2:ALA:N	2.26	0.67
3:BD:35:LYS:CD	3:BD:104:TYR:CD1	2.60	0.67
31:CA:1086:U:H3	31:CA:1099:G:H22	1.42	0.67
41:CN:57:THR:HG22	41:CN:59:TYR:N	2.09	0.67
42:CO:123:LYS:HG3	42:CO:125:ALA:H	1.59	0.67
34:DG:13:ARG:C	34:DG:15:GLU:N	2.46	0.67
40:DM:84:GLN:O	40:DM:88:LEU:HB3	1.94	0.67
41:DN:57:THR:HG22	41:DN:58:PRO:HD2	1.75	0.67
1:AA:2139:C:H2'	1:AA:2140:C:H5'	1.75	0.67
5:AF:46:ARG:HG2	5:AF:46:ARG:NH1	2.03	0.67
20:AU:81:LYS:HG2	20:AU:97:ARG:HD3	1.76	0.67
1:BA:671:C:OP1	11:BO:42:SER:O	2.11	0.67
1:BA:1790:C:H5''	1:BA:1791:A:OP1	1.94	0.67
1:BA:2689:U:H4'	1:BA:2690:C:OP2	1.94	0.67
1:BA:2773:C:OP1	4:BE:166:THR:OG1	2.12	0.67
9:BM:46:VAL:O	9:BM:47:ALA:HB3	1.94	0.67
14:BQ:53:SER:O	14:BQ:57:LYS:HA	1.94	0.67
16:B1:98:LEU:C	16:B1:100:VAL:H	1.98	0.67
30:B8:39:LYS:HG2	30:B8:40:GLU:N	2.10	0.67
31:CA:523:A:N6	42:CO:89:ASP:HB2	2.08	0.67
31:CA:1170:A:H2'	31:CA:1171:G:O4'	1.93	0.67
32:CE:88:ALA:HB2	32:CE:219:VAL:HG13	1.76	0.67
35:CH:76:ILE:HG13	35:CH:93:PRO:HB3	1.76	0.67
52:CB:22:G:N2	52:CB:59:U:O4'	2.26	0.67
31:DA:498:A:H4'	31:DA:500:G:OP1	1.93	0.67
31:DA:1219:U:OP1	44:DQ:19:ARG:NH1	2.26	0.67
37:DJ:78:ARG:HB2	37:DJ:156:TRP:HZ3	1.59	0.67
50:DW:12:ALA:O	50:DW:15:ARG:N	2.28	0.67
1:AA:1099:G:H2'	1:AA:1100:C:O4'	1.94	0.67
1:AA:2162:G:H2'	1:AA:2163:C:C6	2.29	0.67
1:AA:2724:C:OP1	4:AE:118:LYS:HE3	1.93	0.67
3:AD:146:GLU:HB2	3:AD:189:CYS:HB3	1.76	0.67
4:AE:5:LEU:HD21	4:AE:79:ARG:HB3	1.76	0.67
17:A2:44:LYS:O	17:A2:46:VAL:N	2.28	0.67
17:A2:48:GLY:O	17:A2:49:THR:O	2.13	0.67
1:BA:478:A:N1	1:BA:500:G:H4'	2.09	0.67
1:BA:2169:A:H1'	53:DD:57:C:O4'	1.95	0.67
10:BN:2:ILE:HG13	10:BN:8:LEU:HD11	1.76	0.67
12:BP:87:LYS:O	12:BP:88:GLY:C	2.37	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B0:24:GLN:NE2	13:B0:36:THR:HG21	2.10	0.67
13:B0:97:VAL:HG22	13:B0:114:VAL:HG22	1.77	0.67
15:BR:122:ASP:OD2	31:DA:1443:G:O2'	2.12	0.67
31:CA:342:C:C2	31:CA:348:G:N2	2.63	0.67
34:CG:30:LYS:HD3	34:CG:30:LYS:N	2.09	0.67
42:CO:21:VAL:HG12	42:CO:24:LEU:HG	1.75	0.67
1:AA:922:U:O2'	22:A3:29:GLN:OE1	2.13	0.67
2:AB:42:C:O2	6:AG:93:THR:N	2.24	0.67
3:AD:43:ARG:HD2	3:AD:44:ASN:OD1	1.95	0.67
4:AE:7:VAL:HG21	15:AR:1:MET:HE3	1.76	0.67
7:AH:4:ILE:HG21	7:AH:6:ARG:NH1	2.09	0.67
8:AK:78:THR:HG23	8:AK:141:LYS:NZ	2.09	0.67
22:A3:42:GLY:O	22:A3:57:PHE:HD1	1.77	0.67
11:BO:71:VAL:HG12	11:BO:72:PRO:CD	2.05	0.67
12:BP:79:LEU:HD13	12:BP:80:GLU:HB2	1.77	0.67
14:BQ:83:LYS:O	14:BQ:109:GLY:HA3	1.95	0.67
27:B5:5:PRO:O	27:B5:6:VAL:CB	2.43	0.67
1:AA:1024:G:C3'	1:AA:1025:G:H5''	2.24	0.67
1:AA:1162:G:H21	17:A2:89:GLN:HE22	1.43	0.67
9:AM:42:TRP:O	16:A1:64:ARG:NH2	2.28	0.67
1:BA:2312:U:O2'	1:BA:2313:C:H5'	1.94	0.67
1:BA:2394:C:P	11:BO:62:LEU:HB2	2.34	0.67
32:CE:12:GLU:HA	32:CE:16:HIS:CD2	2.30	0.67
32:CE:18:GLY:H	32:CE:42:ILE:HG22	1.59	0.67
37:CJ:79:ARG:CZ	37:CJ:82:GLY:HA2	2.25	0.67
45:CR:70:LEU:HD11	45:CR:77:ARG:HG3	1.77	0.67
31:DA:811:C:H4'	31:DA:900:A:N6	2.09	0.67
31:DA:1005:A:C2	31:DA:1006:C:H1'	2.30	0.67
46:DS:5:ARG:NH1	46:DS:22:THR:HG21	2.10	0.67
1:AA:1007:C:OP1	9:AM:35:ARG:NH1	2.28	0.67
1:AA:1062:G:H2'	1:AA:1063:G:C8	2.29	0.67
1:AA:1525:G:H2'	1:AA:1526:G:C8	2.30	0.67
8:AK:77:LEU:HD12	8:AK:140:LEU:HB2	1.74	0.67
15:AR:53:ARG:HH11	15:AR:53:ARG:HB3	1.58	0.67
30:A8:52:LYS:N	30:A8:53:PRO:CD	2.55	0.67
1:BA:2143:C:H2'	1:BA:2144:U:O4'	1.95	0.67
1:BA:2357:U:OP1	22:B3:20:ARG:NH1	2.28	0.67
4:BE:27:LEU:HD23	15:BR:1:MET:HE3	1.76	0.67
7:BH:124:GLU:N	7:BH:124:GLU:OE1	2.26	0.67
26:B4:21:VAL:HG22	26:B4:22:ILE:HG12	1.76	0.67
43:CP:57:ARG:HB2	43:CP:57:ARG:NH1	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CV:65:ASN:HD22	49:CV:65:ASN:N	1.93	0.67
50:CW:100:ILE:HG13	50:CW:101:GLY:N	2.08	0.67
31:DA:373:A:C2	31:DA:374:A:C8	2.83	0.67
1:AA:1590:U:H2'	1:AA:1591:G:C8	2.29	0.67
1:AA:2219:G:C2'	1:AA:2224:G:H5'	2.24	0.67
1:AA:2348:U:H4'	28:A6:42:TRP:HD1	1.60	0.67
1:AA:2698:U:H2'	1:AA:2699:C:C6	2.29	0.67
21:AV:107:THR:HB	21:AV:108:PRO:HD2	1.75	0.67
22:A3:17:GLN:HA	22:A3:17:GLN:NE2	2.10	0.67
1:BA:330:A:H2	1:BA:1210:A:HO2'	1.43	0.67
12:BP:34:LEU:HB2	12:BP:118:LEU:HD22	1.76	0.67
17:B2:6:LYS:H	17:B2:37:VAL:HG12	1.59	0.67
31:CA:1008:C:H42	31:CA:1021:G:H1	1.42	0.67
33:CF:116:VAL:HG21	33:CF:202:ILE:HD11	1.76	0.67
41:CN:32:ILE:CG2	41:CN:77:MET:HE2	2.24	0.67
49:CV:24:ALA:C	49:CV:26:GLY:H	2.03	0.67
50:CW:22:ARG:O	50:CW:26:ASN:ND2	2.28	0.67
31:DA:57:G:H2'	31:DA:58:C:C6	2.30	0.67
31:DA:412:A:O2'	31:DA:413:G:OP2	2.11	0.67
32:DE:56:ARG:HH11	32:DE:56:ARG:HA	1.58	0.67
39:DL:77:ILE:O	39:DL:81:ILE:HG12	1.93	0.67
52:DB:23:A:O2'	52:DB:24:C:OP1	2.10	0.67
1:AA:2690:C:H5''	1:AA:2872:G:H21	1.60	0.67
1:AA:2701:C:H3'	1:AA:2702:U:C5'	2.24	0.67
13:A0:24:GLN:HE22	13:A0:36:THR:CG2	2.08	0.67
1:BA:653:A:H5''	1:BA:654:A:OP2	1.93	0.67
1:BA:676:A:H8	1:BA:2069:G:N2	1.87	0.67
1:BA:1005:C:O4'	1:BA:1143:A:C2	2.48	0.67
1:BA:2150:U:H2'	1:BA:2151:G:H8	1.60	0.67
1:BA:2512:C:H5''	1:BA:2513:G:OP2	1.95	0.67
1:BA:2847:U:OP1	15:BR:98:LYS:HD3	1.95	0.67
3:BD:5:LYS:HB2	3:BD:5:LYS:NZ	2.10	0.67
4:BE:51:PHE:CD2	4:BE:52:LEU:HB3	2.24	0.67
7:BH:12:PRO:O	7:BH:15:VAL:HG22	1.94	0.67
7:BH:102:ALA:HB1	7:BH:116:GLU:HA	1.77	0.67
12:BP:7:MET:HB3	12:BP:10:ARG:CZ	2.25	0.67
13:B0:34:ILE:HG22	13:B0:114:VAL:HB	1.75	0.67
31:CA:1298:C:C6	37:CJ:114:ARG:NH1	2.62	0.67
32:CE:178:ARG:HH11	32:CE:178:ARG:CB	2.08	0.67
36:CI:101:ALA:HB2	48:CU:28:GLU:CG	2.24	0.67
39:CL:127:LYS:HG2	39:CL:127:LYS:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CD:37:U:O4	53:CD:38:A:N6	2.28	0.67
31:DA:982:U:H5''	44:DQ:6:LEU:HD11	1.75	0.67
32:DE:197:VAL:HG12	32:DE:200:ILE:HG13	1.74	0.67
34:DG:153:ARG:HD3	34:DG:181:MET:SD	2.35	0.67
40:DM:48:THR:HA	40:DM:62:HIS:HB3	1.77	0.67
49:DV:45:VAL:HA	49:DV:62:ILE:HG22	1.75	0.67
1:AA:320:A:H2'	5:AF:136:THR:HG21	1.78	0.67
1:AA:801:G:O4'	5:AF:54:ARG:HD3	1.94	0.67
1:AA:1509:C:H3'	1:AA:1510:A:H5''	1.75	0.67
1:AA:2795:G:H3'	1:AA:2797:U:C5'	2.25	0.67
6:AG:77:ILE:O	6:AG:77:ILE:HG23	1.95	0.67
7:AH:30:LYS:HZ3	7:AH:83:TYR:HE2	1.43	0.67
11:AO:50:ARG:CG	30:A8:59:LYS:HD3	2.25	0.67
12:AP:106:VAL:HG21	12:AP:114:ALA:HB1	1.76	0.67
1:BA:634:C:H2'	1:BA:635:C:C6	2.30	0.67
3:BD:270:ILE:CG2	3:BD:271:ILE:N	2.57	0.67
4:BE:79:ARG:NH1	4:BE:79:ARG:HG3	2.10	0.67
10:BN:98:VAL:HG13	10:BN:117:LEU:HB3	1.76	0.67
14:BQ:10:ARG:O	14:BQ:14:VAL:HG12	1.93	0.67
16:B1:66:ASN:ND2	16:B1:70:ARG:HE	1.93	0.67
20:BU:84:ARG:NH2	20:BU:97:ARG:HB2	2.10	0.67
21:BV:52:SER:OG	21:BV:52:SER:O	2.11	0.67
31:CA:116:A:H61	31:CA:313:A:H1'	1.60	0.67
31:CA:606:G:H1	31:CA:631:G:H5''	1.60	0.67
32:CE:90:MET:HE2	32:CE:90:MET:HA	1.74	0.67
41:CN:77:MET:HE3	41:CN:80:VAL:HG12	1.76	0.67
31:DA:363:A:C2	42:DO:31:PRO:HG2	2.29	0.67
31:DA:973:G:H3'	31:DA:974:A:H5''	1.76	0.67
31:DA:1177:G:H2'	31:DA:1178:G:N3	2.10	0.67
40:DM:79:ARG:HD3	40:DM:79:ARG:H	1.59	0.67
43:DP:13:LYS:HA	43:DP:44:ARG:NH1	2.10	0.67
53:DD:42:C:H2'	53:DD:43:G:H8	1.59	0.67
53:DD:55:U:H3	53:DD:59:A:H62	1.43	0.67
1:AA:1063:G:H1	1:AA:1075:C:H42	1.42	0.66
1:AA:1385:G:H4'	1:AA:1386:C:OP1	1.94	0.66
1:AA:2439:A:O2'	1:AA:2440:C:OP2	2.13	0.66
6:AG:73:ALA:CB	6:AG:82:LEU:CD2	2.71	0.66
14:AQ:11:LYS:HD2	14:AQ:15:ARG:HH21	1.59	0.66
23:AZ:85:LEU:O	23:AZ:86:SER:C	2.37	0.66
1:BA:2255:G:N2	12:BP:85:LYS:HE2	2.10	0.66
9:BM:47:ALA:C	9:BM:49:GLY:H	2.02	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B4:1:MET:O	26:B4:2:LYS:HD3	1.95	0.66
26:B4:40:HIS:HB3	26:B4:45:GLY:HA3	1.76	0.66
31:CA:250:A:H4'	31:CA:251:G:C5'	2.25	0.66
31:DA:235:C:C5'	47:DT:70:ARG:HG2	2.25	0.66
31:DA:1320:C:C2	49:DV:72:GLY:HA3	2.30	0.66
34:DG:22:LYS:HB2	34:DG:26:CYS:HB2	1.77	0.66
36:DI:15:ASP:OD1	36:DI:17:SER:N	2.28	0.66
45:DR:25:THR:HG21	45:DR:70:LEU:HB2	1.77	0.66
1:AA:1257:C:H4'	5:AF:83:PHE:CD2	2.30	0.66
1:AA:2469:A:H2'	1:AA:2470:G:O4'	1.95	0.66
1:AA:2579:C:H2'	1:AA:2580:U:O4'	1.95	0.66
4:AE:81:ILE:CG2	4:AE:84:PHE:HB2	2.26	0.66
6:AG:112:PRO:HB3	26:A4:37:SER:CB	2.25	0.66
7:AH:92:ILE:HD12	7:AH:92:ILE:N	2.09	0.66
12:AP:66:ILE:CD1	12:AP:67:ARG:H	2.01	0.66
18:AS:3:ALA:HB2	18:AS:64:MET:HE3	1.76	0.66
20:AU:81:LYS:HG2	20:AU:97:ARG:CD	2.25	0.66
25:AX:5:LYS:HB2	25:AX:36:VAL:HG12	1.75	0.66
1:BA:527:C:OP2	1:BA:2779:U:H5	1.78	0.66
1:BA:620:G:N3	1:BA:620:G:H5'	2.09	0.66
1:BA:1472:A:C2'	1:BA:1473:G:H5'	2.26	0.66
1:BA:1678:G:N2	1:BA:1989:G:N2	2.42	0.66
1:BA:2010:G:H5''	18:BS:42:ARG:HB2	1.77	0.66
1:BA:2786:U:H4'	4:BE:64:LYS:C	2.19	0.66
19:BT:57:LEU:HD21	19:BT:78:LYS:HB2	1.76	0.66
24:BW:14:ARG:HG3	24:BW:15:LYS:CE	2.26	0.66
31:CA:1065:U:O2'	31:CA:1066:C:OP2	2.11	0.66
38:CK:10:LEU:HD22	38:CK:83:ILE:HD11	1.77	0.66
45:CR:21:ASP:OD1	45:CR:24:SER:HB3	1.96	0.66
46:CS:36:ILE:O	46:CS:36:ILE:HG13	1.96	0.66
31:DA:975:A:H4'	31:DA:976:G:C5'	2.13	0.66
31:DA:980:C:H5''	31:DA:981:U:C5	2.31	0.66
33:DF:113:ALA:HB3	33:DF:114:PRO:HD3	1.77	0.66
45:DR:75:PRO:O	45:DR:79:ARG:HG3	1.94	0.66
53:DD:20:G:H2'	53:DD:20:G:N3	2.09	0.66
1:AA:864:G:O2'	1:AA:865:C:H5'	1.96	0.66
1:AA:1045:A:N3	1:AA:1111:A:N6	2.43	0.66
1:AA:1152:C:H1'	16:A1:77:SER:HB2	1.78	0.66
1:AA:2439:A:C8	1:AA:2439:A:H5'	2.31	0.66
1:AA:2728:U:H2'	1:AA:2729:G:C8	2.30	0.66
3:AD:136:ILE:HG22	3:AD:137:PRO:HD2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:176:LEU:HD21	5:AF:180:GLY:O	1.95	0.66
12:AP:39:PRO:HA	12:AP:97:VAL:O	1.96	0.66
22:A3:11:ARG:O	22:A3:14:ARG:NH2	2.29	0.66
29:A7:8:ASN:HD21	29:A7:11:LYS:N	1.90	0.66
1:BA:2128:C:H4'	1:BA:2173:A:C6	2.30	0.66
31:CA:219:C:H2'	31:CA:220:G:O4'	1.95	0.66
43:CP:65:LYS:O	43:CP:66:LEU:HD23	1.95	0.66
31:DA:1328:C:OP1	51:DX:21:TYR:OH	2.10	0.66
36:DI:82:ARG:HB2	36:DI:85:VAL:HG23	1.77	0.66
38:DK:1:MET:HE3	38:DK:3:THR:HG23	1.78	0.66
42:DO:24:VAL:HG12	42:DO:26:ALA:HB2	1.77	0.66
1:AA:1385:G:O2'	1:AA:1396:U:C6	2.49	0.66
3:AD:35:LYS:HG2	3:AD:64:ILE:CG2	2.25	0.66
3:AD:127:VAL:HA	3:AD:193:VAL:CG2	2.26	0.66
7:AH:169:VAL:HG13	7:AH:170:ARG:H	1.60	0.66
8:AK:114:LEU:O	8:AK:115:ALA:HB3	1.95	0.66
9:AM:62:VAL:CG2	9:AM:66:LYS:HD2	2.25	0.66
12:AP:87:LYS:O	12:AP:88:GLY:C	2.38	0.66
20:AU:42:VAL:HG12	20:AU:42:VAL:O	1.93	0.66
1:BA:1204:A:O2'	1:BA:1205:U:OP2	2.11	0.66
1:BA:2839:G:H5'	13:B0:46:GLY:HA2	1.78	0.66
5:BF:25:PRO:HB3	5:BF:28:ILE:CG1	2.18	0.66
9:BM:42:TRP:CA	9:BM:48:MET:HE3	2.21	0.66
11:BO:23:PRO:C	11:BO:25:SER:H	2.04	0.66
15:BR:125:ARG:HB3	15:BR:129:ARG:NH2	2.11	0.66
20:BU:17:SER:HB2	20:BU:71:LYS:CE	2.26	0.66
31:CA:376:G:H5''	46:CS:5:ARG:HD2	1.77	0.66
33:CF:70:VAL:HG12	33:CF:72:LYS:N	2.11	0.66
34:CG:7:PRO:HB2	34:CG:10:ARG:CD	2.22	0.66
35:CH:9:LYS:O	35:CH:33:VAL:HG23	1.96	0.66
31:DA:792:A:H4'	31:DA:793:U:O5'	1.96	0.66
31:DA:1036:G:H2'	31:DA:1037:C:C2	2.30	0.66
31:DA:1123:A:H4'	40:DM:36:GLY:HA3	1.78	0.66
45:DR:87:ILE:CG2	45:DR:88:ARG:H	2.04	0.66
1:AA:61:G:H5'	24:AW:50:ILE:HG12	1.76	0.66
1:AA:528:A:N1	1:AA:2042:A:H2'	2.10	0.66
1:AA:1394:U:C5	1:AA:1395:A:C4	2.84	0.66
1:AA:2100:G:H1	1:AA:2189:U:H3	1.43	0.66
1:AA:2829:C:C2'	1:AA:2830:G:H5''	2.26	0.66
4:AE:60:ASN:ND2	4:AE:60:ASN:N	2.43	0.66
15:AR:57:PHE:O	15:AR:58:ASN:CB	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1053:C:H3'	1:BA:1054:A:H5''	1.76	0.66
1:BA:2016:U:H1'	27:B5:6:VAL:CG1	2.26	0.66
5:BF:84:VAL:O	5:BF:86:GLY:N	2.27	0.66
15:BR:1:MET:HE2	15:BR:1:MET:HA	1.77	0.66
15:BR:26:ASP:OD2	15:BR:120:ARG:NH2	2.25	0.66
16:B1:34:LYS:HA	16:B1:34:LYS:HE2	1.78	0.66
23:BZ:92:LYS:O	23:BZ:93:GLU:C	2.39	0.66
41:CN:124:LYS:HE3	41:CN:125:PHE:CE1	2.30	0.66
32:DE:168:THR:CG2	32:DE:192:SER:HB3	2.24	0.66
1:AA:270(R):G:H2'	1:AA:270(S):G:C8	2.31	0.66
1:AA:863:A:O2'	1:AA:864:G:H5'	1.95	0.66
1:AA:1533:C:H5'	1:AA:1534:G:OP2	1.96	0.66
1:AA:1699:G:H4'	1:AA:1700:A:OP2	1.94	0.66
1:AA:2285:C:P	28:A6:28:ARG:HD3	2.36	0.66
4:AE:59:VAL:O	4:AE:59:VAL:HG13	1.95	0.66
9:AM:96:GLU:O	9:AM:96:GLU:CG	2.43	0.66
14:AQ:34:HIS:HB3	14:AQ:53:SER:OG	1.95	0.66
1:BA:709:U:H2'	1:BA:710:G:C8	2.31	0.66
1:BA:932:G:H4'	1:BA:933:A:O5'	1.94	0.66
1:BA:1412:A:H2'	1:BA:1413:G:C8	2.30	0.66
1:BA:1583:A:H5'	1:BA:1585:C:O5'	1.96	0.66
1:BA:2683:C:OP1	15:BR:53:ARG:NH2	2.28	0.66
3:BD:34:VAL:HG13	3:BD:35:LYS:HG3	1.76	0.66
12:BP:64:ILE:HG23	12:BP:106:VAL:HG12	1.75	0.66
31:CA:751:U:H5''	31:CA:752:G:OP2	1.95	0.66
31:CA:1450:U:O2'	31:CA:1451:A:H8	1.79	0.66
32:CE:178:ARG:HH11	32:CE:178:ARG:CG	2.08	0.66
34:CG:12:CYS:CA	34:CG:19:LEU:HD21	2.22	0.66
36:CI:4:TYR:HD1	36:CI:92:LYS:HA	1.60	0.66
39:CL:78:LYS:HE3	39:CL:101:PHE:CE2	2.31	0.66
42:CO:86:ARG:HG3	42:CO:86:ARG:NH1	2.09	0.66
34:DG:108:LEU:HD23	34:DG:110:PHE:CE1	2.30	0.66
53:DD:22:A:C2	53:DD:47:G:H2'	2.30	0.66
1:BA:259:G:N2	1:BA:621:A:H8	1.93	0.66
1:BA:669:G:O2'	1:BA:670:A:P	2.53	0.66
1:BA:854:G:H2'	1:BA:855:G:H8	1.60	0.66
1:BA:1252:G:O4'	16:B1:33:ARG:HD3	1.96	0.66
1:BA:2563:U:O2	1:BA:2565:A:H8	1.79	0.66
12:BP:98:LYS:HB3	12:BP:99:PRO:HD2	1.76	0.66
16:B1:97:ASP:OD2	16:B1:98:LEU:N	2.29	0.66
19:BT:26:TYR:OH	19:BT:88:LYS:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BV:116:VAL:HG12	21:BV:117:LEU:H	1.59	0.66
31:CA:686:U:O4	31:CA:703:G:H1'	1.94	0.66
31:CA:1213:A:O2'	31:CA:1215:G:N7	2.27	0.66
35:CH:98:THR:HG22	35:CH:99:GLY:N	2.10	0.66
42:CO:86:ARG:HH11	42:CO:86:ARG:CG	2.04	0.66
45:CR:87:ILE:HG22	45:CR:88:ARG:HG2	1.76	0.66
53:CD:5:G:H1	53:CD:69:C:H42	1.42	0.66
31:DA:316:G:OP2	31:DA:351:G:O2'	2.14	0.66
31:DA:1226:C:C4	43:DP:104:ARG:HB2	2.29	0.66
33:DF:7:PRO:O	33:DF:11:ARG:NH1	2.29	0.66
1:AA:573:G:O2'	1:AA:574:C:H3'	1.95	0.66
1:AA:598:G:C1'	11:AO:12:ALA:HB2	2.26	0.66
1:AA:671:C:OP1	11:AO:42:SER:O	2.13	0.66
6:AG:82:LEU:O	6:AG:82:LEU:CD2	2.40	0.66
13:A0:57:ARG:HB3	13:A0:59:ASP:OD1	1.96	0.66
16:A1:29:SER:OG	16:A1:30:LYS:HE2	1.96	0.66
1:BA:147:U:H2'	1:BA:148:C:H5''	1.78	0.66
1:BA:171:G:H2'	1:BA:172:C:C6	2.31	0.66
4:BE:179:GLU:O	4:BE:180:ASN:HB2	1.94	0.66
27:B5:5:PRO:O	27:B5:6:VAL:HB	1.96	0.66
31:CA:316:G:OP2	31:CA:351:G:O2'	2.13	0.66
31:CA:1491:G:C5	56:CA:1841:PAR:H21	2.31	0.66
36:CI:62:TRP:CH2	36:CI:64:GLN:HG3	2.30	0.66
39:CL:48:GLU:N	39:CL:49:PRO:HD2	2.11	0.66
31:DA:422:C:O2'	31:DA:423:G:N3	2.29	0.66
31:DA:1151:A:O2'	31:DA:1152:A:O5'	2.14	0.66
37:DJ:69:VAL:HG22	37:DJ:135:VAL:HG23	1.76	0.66
1:AA:2111:C:H41	1:AA:2147:G:N2	1.93	0.66
1:AA:2583:G:N2	52:CB:87:A:C8	2.59	0.66
1:AA:2689:U:OP2	1:AA:2719:G:N2	2.24	0.66
9:AM:42:TRP:HA	9:AM:48:MET:CE	2.23	0.66
15:AR:60:THR:HG22	15:AR:77:PRO:HA	1.78	0.66
18:AS:24:ILE:HG21	18:AS:36:LEU:HD21	1.78	0.66
21:AV:105:VAL:HG13	21:AV:140:ASP:HB3	1.77	0.66
1:BA:994:C:OP1	16:B1:53:ARG:NH2	2.29	0.66
1:BA:1019:U:HO2'	1:BA:1021:A:H2	1.38	0.66
1:BA:1899:G:N2	1:BA:1902:C:N4	2.23	0.66
19:BT:11:PRO:HD3	24:BW:37:PHE:CD2	2.31	0.66
21:BV:175:VAL:HG13	21:BV:176:PRO:CD	2.25	0.66
23:BZ:91:LYS:HB2	23:BZ:91:LYS:HZ3	1.59	0.66
34:CG:52:SER:O	34:CG:55:ALA:HB3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:76:LEU:HD12	47:CT:78:GLU:H	1.60	0.66
31:DA:1446:A:OP1	31:DA:1446:A:H4'	1.96	0.66
33:DF:18:TRP:HE3	33:DF:18:TRP:N	1.94	0.66
34:DG:24:GLU:O	34:DG:27:TYR:HB2	1.96	0.66
34:DG:178:VAL:HG12	34:DG:179:GLU:H	1.61	0.66
1:AA:1178:C:H2'	1:AA:1179:C:C6	2.31	0.66
1:AA:1971:A:C4	3:AD:241:PRO:HD3	2.31	0.66
3:AD:33:LEU:HD13	3:AD:34:VAL:N	2.10	0.66
3:AD:176:ARG:HH11	3:AD:176:ARG:HG2	1.60	0.66
16:A1:69:CYS:HG	16:A1:79:PHE:HD1	1.40	0.66
1:BA:273(D):C:N4	1:BA:363(B):G:H1	1.93	0.66
1:BA:278:A:H4'	1:BA:279:C:OP1	1.96	0.66
1:BA:443:A:H1'	1:BA:1201:C:O4'	1.95	0.66
1:BA:672:C:C2'	1:BA:673:C:C5'	2.65	0.66
1:BA:1065:U:H3	1:BA:1073:A:H61	1.43	0.66
5:BF:3:GLU:HA	5:BF:24:LEU:HD23	1.77	0.66
6:BG:117:PHE:CD1	6:BG:118:ARG:O	2.48	0.66
7:BH:41:MET:HE2	7:BH:64:LEU:HB2	1.78	0.66
11:BO:120:ALA:HB1	11:BO:138:LEU:HB3	1.78	0.66
14:BQ:11:LYS:O	14:BQ:15:ARG:HB2	1.96	0.66
17:B2:82:ARG:HH11	17:B2:82:ARG:HG3	1.58	0.66
31:CA:881:G:OP2	42:CO:9:ARG:NH2	2.28	0.66
31:CA:1053:G:O6	31:CA:1199:U:H2'	1.95	0.66
32:CE:80:ILE:HD11	32:CE:208:ILE:HG23	1.78	0.66
34:CG:108:LEU:HB3	34:CG:110:PHE:CD1	2.31	0.66
34:CG:170:VAL:HG22	34:CG:171:GLY:N	2.10	0.66
53:CC:1:C:H2'	53:CC:2:G:OP2	1.95	0.66
53:CC:21:U:O2'	53:CC:22:A:H5'	1.96	0.66
31:DA:1160:G:N1	31:DA:1177:G:N2	2.26	0.66
32:DE:209:ARG:HG2	32:DE:240:GLN:HE21	1.60	0.66
1:AA:458:G:O2'	29:A7:39:ARG:HD3	1.94	0.65
1:AA:547:A:H3'	1:AA:548:A:C8	2.31	0.65
1:AA:1480:G:C2	1:AA:1482:U:O2	2.50	0.65
1:AA:2275:C:O2'	12:AP:84:GLY:CA	2.44	0.65
1:AA:2689:U:H5''	1:AA:2713:A:C2	2.31	0.65
1:AA:2875:C:H4'	15:AR:5:ALA:HB2	1.79	0.65
9:AM:7:LYS:H	9:AM:7:LYS:HD2	1.59	0.65
12:AP:79:LEU:O	12:AP:81:VAL:CG1	2.35	0.65
1:BA:2893:G:H5'	1:BA:2894:G:OP1	1.96	0.65
5:BF:9:ILE:HG12	5:BF:14:PRO:HA	1.77	0.65
5:BF:132:VAL:HG22	5:BF:133:ASN:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BH:111:HIS:ND1	7:BH:112:PRO:HD2	2.09	0.65
11:BO:50:ARG:HD3	30:B8:7:HIS:HE2	1.60	0.65
24:BW:16:LEU:H	24:BW:16:LEU:HD12	1.60	0.65
31:CA:1123:A:H4'	40:CM:36:GLY:HA3	1.76	0.65
31:CA:1186:G:H21	44:CQ:61:TRP:C	2.04	0.65
31:CA:1226:C:H2'	43:CP:103:THR:HB	1.77	0.65
42:CO:3:THR:HG23	42:CO:6:GLN:HE21	1.59	0.65
47:CT:77:VAL:O	47:CT:78:GLU:CB	2.38	0.65
31:DA:186:C:H1'	50:DW:81:LYS:HZ1	1.61	0.65
33:DF:34:LEU:HD12	33:DF:34:LEU:O	1.96	0.65
38:DK:82:HIS:CD2	38:DK:82:HIS:C	2.74	0.65
48:DU:29:PHE:HD1	48:DU:39:VAL:HG11	1.61	0.65
1:AA:1049:C:C2'	1:AA:1050:A:H5''	2.26	0.65
1:AA:1165:U:H2'	1:AA:1166:C:C6	2.30	0.65
1:AA:2264:C:O2	1:AA:2264:C:H2'	1.96	0.65
3:AD:30:GLU:HG3	3:AD:63:ARG:NH2	2.12	0.65
4:AE:59:VAL:HG21	4:AE:73:GLU:CB	2.26	0.65
6:AG:101:ILE:HG13	26:A4:25:TYR:O	1.95	0.65
9:AM:31:ALA:O	9:AM:34:LEU:N	2.29	0.65
14:AQ:5:THR:OG1	14:AQ:8:GLU:HG3	1.96	0.65
16:A1:90:VAL:O	16:A1:92:ARG:N	2.29	0.65
20:AU:44:ILE:HG13	20:AU:45:VAL:N	2.12	0.65
26:A4:57:GLU:HA	26:A4:60:GLN:HB2	1.78	0.65
1:BA:38:A:H2'	1:BA:39:C:C6	2.30	0.65
1:BA:1342:A:N1	1:BA:1602:U:C2	2.64	0.65
1:BA:1420:U:O2'	1:BA:1421:G:P	2.53	0.65
8:BK:82:ARG:HH11	8:BK:146:ALA:HA	1.59	0.65
16:B1:65:ILE:HD11	16:B1:96:ALA:HB1	1.78	0.65
18:BS:50:VAL:HG22	18:BS:105:VAL:HG23	1.78	0.65
24:BW:24:LEU:HD22	24:BW:60:LEU:HD21	1.78	0.65
28:B6:52:VAL:HG22	28:B6:53:LYS:HG3	1.76	0.65
31:DA:201:C:H4'	31:DA:208:U:OP1	1.97	0.65
31:DA:560:U:HO2'	31:DA:561:U:P	2.16	0.65
31:DA:1126:U:O4	31:DA:1281:U:C6	2.49	0.65
31:DA:1263:C:N3	31:DA:1272:G:N2	2.43	0.65
45:DR:61:GLY:O	45:DR:65:ARG:HD2	1.95	0.65
49:DV:28:LYS:HG2	49:DV:29:ARG:H	1.61	0.65
1:AA:909:A:H2'	1:AA:912:C:C5	2.32	0.65
1:AA:1053:C:N3	1:AA:1106:G:N2	2.39	0.65
5:AF:101:LEU:O	5:AF:106:ARG:NH1	2.29	0.65
7:AH:4:ILE:C	7:AH:6:ARG:H	2.02	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:41:ARG:HH11	15:AR:41:ARG:HB2	1.61	0.65
16:A1:34:LYS:HA	16:A1:34:LYS:HE3	1.78	0.65
16:A1:79:PHE:HE1	16:A1:106:PHE:CZ	2.15	0.65
18:AS:13:SER:HB3	18:AS:16:LYS:HD3	1.77	0.65
24:AW:42:GLY:O	24:AW:44:LEU:N	2.29	0.65
27:A5:57:VAL:O	27:A5:57:VAL:HG13	1.96	0.65
1:BA:1323:U:C2'	1:BA:1324:G:H5'	2.26	0.65
7:BH:81:GLU:HG2	7:BH:83:TYR:HB2	1.78	0.65
30:B8:52:LYS:N	30:B8:53:PRO:HD3	2.11	0.65
31:DA:625:G:H2'	31:DA:626:U:H6	1.62	0.65
31:DA:630:G:H2'	31:DA:630:G:N3	2.11	0.65
31:DA:1320:C:OP1	49:DV:70:LYS:HE3	1.96	0.65
31:DA:1374:A:H2'	31:DA:1375:A:H5'	1.77	0.65
33:DF:63:ASN:O	33:DF:64:VAL:HB	1.96	0.65
36:DI:3:ARG:NH1	36:DI:38:GLU:OE1	2.29	0.65
39:DL:32:ASP:HB3	39:DL:35:GLU:HB2	1.78	0.65
41:DN:48:ILE:HG13	41:DN:63:LEU:HB3	1.75	0.65
51:DX:25:LYS:HE3	51:DX:26:LYS:HG3	1.78	0.65
1:AA:286:C:O2'	1:AA:287:C:H5'	1.96	0.65
1:AA:856:C:H2'	1:AA:857:C:C6	2.31	0.65
1:AA:885:C:H2'	1:AA:890:A:H61	1.61	0.65
1:AA:1533:C:H3'	1:AA:1534:G:H5''	1.76	0.65
1:AA:2134:A:N6	1:AA:2157:G:H1'	2.11	0.65
1:AA:2648:C:H2'	1:AA:2649:U:C6	2.32	0.65
3:AD:155:LEU:HD23	3:AD:177:LEU:CD2	2.27	0.65
8:AK:110:ASP:HB3	8:AK:111:PRO:C	2.21	0.65
9:AM:114:ARG:O	9:AM:115:ARG:HB2	1.95	0.65
1:BA:176:G:O2'	1:BA:177:G:H5'	1.97	0.65
1:BA:1141:U:H2'	9:BM:63:THR:CG2	2.27	0.65
1:BA:1177:A:H5'	1:BA:1178:C:OP1	1.96	0.65
3:BD:35:LYS:HE2	3:BD:104:TYR:CB	2.15	0.65
3:BD:43:ARG:HD2	3:BD:44:ASN:CG	2.22	0.65
3:BD:44:ASN:HB2	3:BD:48:ARG:O	1.96	0.65
4:BE:4:ILE:HG23	4:BE:95:ILE:HD11	1.78	0.65
4:BE:36:ARG:O	4:BE:37:ARG:C	2.39	0.65
11:BO:6:LEU:O	11:BO:7:ARG:CB	2.45	0.65
14:BQ:83:LYS:C	14:BQ:109:GLY:HA3	2.21	0.65
18:BS:59:VAL:HG23	18:BS:65:LEU:H	1.61	0.65
24:BW:17:SER:HB2	24:BW:18:PRO:O	1.96	0.65
31:CA:1004:A:C2	31:CA:1024:G:C8	2.84	0.65
31:CA:1073:U:H2'	31:CA:1074:G:C8	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1106:G:H2'	31:CA:1107:C:H6	1.61	0.65
31:CA:1129:C:N3	31:CA:1139:G:O6	2.30	0.65
50:CW:71:THR:HG22	50:CW:72:LEU:N	2.10	0.65
31:DA:1135:U:H4'	31:DA:1136:U:H5	1.62	0.65
32:DE:46:LYS:HA	32:DE:49:GLU:HB2	1.77	0.65
1:AA:990:A:OP2	1:AA:991:C:OP2	2.15	0.65
1:AA:1506:C:H5'	1:AA:1507:A:OP2	1.97	0.65
3:AD:96:HIS:NE2	3:AD:102:LYS:HE2	2.11	0.65
4:AE:8:LYS:HE3	4:AE:24:THR:CG2	2.26	0.65
4:AE:60:ASN:OD1	4:AE:62:PRO:HD2	1.96	0.65
4:AE:66:HIS:C	4:AE:66:HIS:ND1	2.53	0.65
17:A2:1:MET:HG3	17:A2:43:GLU:HG2	1.78	0.65
27:A5:40:LYS:HB2	27:A5:46:CYS:SG	2.36	0.65
1:BA:152:G:H1	1:BA:174:C:H42	1.42	0.65
1:BA:861:A:C2	1:BA:917:A:C4	2.84	0.65
1:BA:882:G:N1	1:BA:894:C:N4	2.19	0.65
1:BA:2168:G:H2'	1:BA:2168:G:N3	2.11	0.65
1:BA:2531:A:H4'	7:BH:157:TYR:CD2	2.31	0.65
5:BF:24:LEU:CD1	5:BF:25:PRO:HD3	2.24	0.65
5:BF:181:LEU:HD21	5:BF:186:ILE:HD11	1.77	0.65
11:BO:62:LEU:HD12	30:B8:30:ARG:CZ	2.26	0.65
15:BR:26:ASP:HB2	15:BR:90:GLN:O	1.95	0.65
15:BR:107:ASP:N	15:BR:107:ASP:OD1	2.30	0.65
27:B5:5:PRO:O	27:B5:6:VAL:HG23	1.96	0.65
30:B8:29:LYS:O	30:B8:29:LYS:CG	2.30	0.65
31:CA:8:A:H5'	35:CH:101:ILE:HG22	1.77	0.65
31:CA:920:U:O4'	31:CA:1080:A:C2	2.50	0.65
31:CA:1080:A:H5''	31:CA:1081:G:OP2	1.97	0.65
31:CA:1298:C:H4'	31:CA:1299:A:C4	2.32	0.65
32:CE:8:LYS:H	32:CE:8:LYS:CE	2.10	0.65
44:CQ:45:ARG:NH1	44:CQ:49:HIS:HE1	1.94	0.65
45:CR:26:GLU:OE2	45:CR:77:ARG:NH1	2.30	0.65
31:DA:951:G:OP2	43:DP:102:ARG:NH2	2.29	0.65
31:DA:1004:A:H1'	31:DA:1036:G:C2	2.31	0.65
31:DA:1206:G:O2'	33:DF:193:TYR:HA	1.97	0.65
33:DF:94:LEU:HD12	33:DF:95:THR:H	1.61	0.65
33:DF:130:VAL:O	33:DF:134:ILE:HG12	1.97	0.65
34:DG:122:ARG:NH2	34:DG:134:ASP:HB3	2.11	0.65
34:DG:178:VAL:C	34:DG:180:GLY:H	2.03	0.65
52:DB:14:A:H61	52:DB:21:A:N6	1.94	0.65
1:AA:2275:C:H5'	1:AA:2275:C:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:57:ALA:HB2	6:AG:90:LEU:HD21	1.79	0.65
6:AG:135:LEU:HD23	6:AG:140:ILE:HD11	1.79	0.65
7:AH:20:ALA:HB1	7:AH:21:PRO:HD2	1.77	0.65
17:A2:25:LEU:H	17:A2:92:THR:HG21	1.62	0.65
1:BA:459:U:H5''	29:B7:40:TRP:CD2	2.30	0.65
9:BM:56:ASN:H	9:BM:125:GLY:CA	2.10	0.65
13:B0:86:ARG:HG2	13:B0:118:GLU:OE2	1.96	0.65
26:B4:49:PHE:CD1	26:B4:50:VAL:HG13	2.31	0.65
31:CA:66:G:O4'	31:CA:173:U:C4	2.49	0.65
31:CA:310:G:P	46:CS:27:LYS:NZ	2.69	0.65
31:CA:567:G:H2'	31:CA:568:G:O4'	1.96	0.65
31:CA:1059:C:O2	40:CM:53:PRO:HG3	1.97	0.65
34:CG:65:ARG:HH11	34:CG:65:ARG:CG	2.10	0.65
38:CK:118:VAL:C	38:CK:119:LEU:HD23	2.21	0.65
40:CM:37:PRO:HA	40:CM:72:VAL:HG22	1.77	0.65
50:CW:57:ARG:NH1	50:CW:102:GLY:HA2	2.11	0.65
50:CW:89:ARG:NH2	50:CW:104:LEU:HD11	2.10	0.65
53:CC:1:C:H3'	53:CC:1:C:H6	1.62	0.65
31:DA:1278:U:O2	31:DA:1278:U:H2'	1.95	0.65
45:DR:2:PRO:HB2	45:DR:3:ILE:HD13	1.79	0.65
50:DW:44:ALA:HB1	50:DW:91:LEU:HB2	1.79	0.65
1:AA:1651:G:N7	13:A0:11:ASN:ND2	2.44	0.65
1:AA:2811:G:P	4:AE:61:ARG:CG	2.78	0.65
6:AG:166:ASP:HA	6:AG:169:ALA:HB3	1.79	0.65
8:AK:102:SER:C	8:AK:106:GLY:HA2	2.21	0.65
1:BA:877:U:O4	1:BA:899:A:N6	2.28	0.65
1:BA:2854:G:N2	1:BA:2864:G:C4	2.65	0.65
4:BE:38:THR:OG1	4:BE:39:PRO:HD2	1.96	0.65
4:BE:79:ARG:O	4:BE:80:GLU:C	2.40	0.65
4:BE:101:ARG:CZ	4:BE:171:GLU:HB2	2.27	0.65
4:BE:202:LYS:N	4:BE:202:LYS:HD2	2.12	0.65
5:BF:78:ILE:HA	5:BF:83:PHE:CD1	2.31	0.65
7:BH:152:ARG:HD2	7:BH:153:LYS:H	1.60	0.65
11:BO:96:THR:OG1	11:BO:97:PRO:CD	2.44	0.65
21:BV:76:LEU:HD23	21:BV:76:LEU:N	2.11	0.65
31:CA:49:U:O2'	31:CA:50:A:H3'	1.97	0.65
49:CV:65:ASN:H	49:CV:65:ASN:ND2	1.93	0.65
52:CB:18:G:H1'	52:CB:19:G:P	2.36	0.65
31:DA:197:A:H1'	31:DA:198:G:OP2	1.97	0.65
31:DA:992:U:O2'	31:DA:993:G:OP2	2.15	0.65
32:DE:95:GLN:HB3	32:DE:148:TYR:HD1	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DE:180:LEU:O	32:DE:181:PHE:HB2	1.94	0.65
33:DF:79:ARG:HE	33:DF:79:ARG:N	1.94	0.65
1:AA:614:U:O4	5:AF:175:THR:HG22	1.96	0.65
1:AA:2555:U:C2'	1:AA:2556:C:H5'	2.27	0.65
1:AA:2875:C:O2'	15:AR:5:ALA:HB3	1.97	0.65
11:AO:101:VAL:CG2	11:AO:106:LEU:HB3	2.25	0.65
14:AQ:110:LEU:HA	14:AQ:112:PHE:CZ	2.31	0.65
22:A3:40:GLN:HE22	22:A3:43:THR:HA	1.62	0.65
1:BA:274:G:OP1	1:BA:274:G:C8	2.49	0.65
1:BA:2443:C:OP1	5:BF:68:LYS:HG2	1.97	0.65
1:BA:2638:G:O2'	1:BA:2639:A:C8	2.50	0.65
3:BD:27:THR:O	3:BD:28:GLU:HB2	1.95	0.65
6:BG:79:ASN:HD22	6:BG:79:ASN:H	1.43	0.65
8:BK:76:THR:HG23	8:BK:77:LEU:H	1.62	0.65
12:BP:34:LEU:HD11	12:BP:129:THR:HB	1.78	0.65
13:B0:37:THR:HG22	13:B0:40:LYS:N	2.09	0.65
17:B2:99:ILE:HG22	17:B2:99:ILE:O	1.96	0.65
18:BS:2:GLU:OE1	18:BS:72:LYS:NZ	2.30	0.65
19:BT:72:LYS:NZ	19:BT:75:ASP:OD1	2.29	0.65
21:BV:15:PRO:HB2	21:BV:19:ARG:NH2	2.11	0.65
21:BV:16:SER:O	21:BV:20:ARG:HG3	1.96	0.65
21:BV:19:ARG:NH1	21:BV:84:GLU:HB2	2.11	0.65
21:BV:93:ASP:HB2	21:BV:131:ARG:HH21	1.61	0.65
23:BZ:46:LEU:HA	23:BZ:62:VAL:O	1.97	0.65
26:B4:12:ALA:H	26:B4:24:THR:CG2	2.10	0.65
31:CA:201:C:N4	31:CA:209:U:O2	2.29	0.65
31:CA:790:A:C6	31:CA:791:G:C6	2.85	0.65
32:CE:220:ASP:O	32:CE:223:ILE:HG13	1.97	0.65
31:DA:186(F):C:H2'	31:DA:187:C:O4'	1.96	0.65
31:DA:464:G:O6	31:DA:466:C:H5'	1.95	0.65
31:DA:1301:U:O2'	31:DA:1302:U:OP1	2.13	0.65
33:DF:63:ASN:CB	33:DF:98:ASN:HB3	2.27	0.65
39:DL:105:ASP:OD2	39:DL:107:ARG:HD3	1.97	0.65
40:DM:4:ILE:HB	40:DM:74:ILE:HD11	1.79	0.65
1:AA:122:G:H2'	1:AA:123:G:H5''	1.79	0.65
1:AA:176:G:O2'	1:AA:177:G:H5'	1.97	0.65
1:AA:1065:U:H1'	1:AA:1074:G:N2	2.12	0.65
1:AA:1071:G:O6	1:AA:1091:G:O6	2.15	0.65
1:AA:1093:G:H5'	7:AH:170:ARG:NH2	2.12	0.65
1:AA:2126:A:H61	1:AA:2163:C:H1'	1.59	0.65
1:AA:2157:G:HO2'	1:AA:2158:A:P	2.19	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2701:C:C3'	1:AA:2702:U:H5''	2.21	0.65
3:AD:33:LEU:CD1	3:AD:34:VAL:H	2.10	0.65
7:AH:12:PRO:HD3	7:AH:48:GLY:O	1.97	0.65
12:AP:66:ILE:CD1	12:AP:68:ILE:O	2.44	0.65
16:A1:79:PHE:HD2	16:A1:79:PHE:O	1.80	0.65
18:AS:58:ALA:HB1	18:AS:64:MET:CG	2.25	0.65
1:BA:479:A:N3	1:BA:481:G:H5''	2.12	0.65
3:BD:34:VAL:CG1	3:BD:34:VAL:O	2.45	0.65
3:BD:267:SER:C	3:BD:269:PHE:H	2.03	0.65
7:BH:152:ARG:CB	7:BH:154:PRO:HD3	2.27	0.65
12:BP:137:TYR:CE1	21:BV:83:PRO:HG3	2.31	0.65
31:CA:606:G:H5''	31:CA:607:A:H5'	1.78	0.65
31:CA:1133:G:H2'	31:CA:1134:G:H8	1.60	0.65
31:CA:1286:A:H5''	51:CX:26:LYS:CD	2.26	0.65
31:CA:1291:G:O2'	39:CL:38:GLN:OE1	2.15	0.65
32:CE:7:VAL:CB	32:CE:217:ARG:HH21	2.09	0.65
33:CF:113:ALA:HB3	33:CF:114:PRO:HD3	1.78	0.65
37:CJ:23:VAL:CG1	37:CJ:43:PHE:HE2	2.09	0.65
31:DA:1243:C:OP1	51:DX:8:THR:HG21	1.97	0.65
31:DA:1348:U:N3	31:DA:1374:A:H2	1.94	0.65
1:AA:807:U:H2'	1:AA:808:G:O5'	1.95	0.65
1:AA:1188:U:O2'	1:AA:1189:A:H5'	1.97	0.65
1:AA:2212:A:N3	1:AA:2215:G:C2	2.64	0.65
4:AE:54:GLN:O	4:AE:55:ASN:C	2.40	0.65
6:AG:83:ARG:N	6:AG:86:MET:CE	2.60	0.65
12:AP:51:ARG:O	12:AP:55:VAL:HG13	1.97	0.65
12:AP:66:ILE:O	12:AP:67:ARG:CB	2.44	0.65
15:AR:16:ARG:NH2	15:AR:83:ILE:O	2.30	0.65
16:A1:92:ARG:NH1	16:A1:94:ASN:HD22	1.95	0.65
17:A2:29:PRO:HA	17:A2:61:VAL:CG2	2.27	0.65
28:A6:43:CYS:HB3	28:A6:44:ARG:NH1	2.11	0.65
1:BA:1292:U:H2'	1:BA:1293:C:C6	2.32	0.65
1:BA:2135:A:H8	1:BA:2135:A:OP2	1.79	0.65
1:BA:2473:U:O2	1:BA:2473:U:H2'	1.97	0.65
1:BA:2629:A:O2'	1:BA:2630:G:H5'	1.97	0.65
8:BK:27:ARG:HG2	23:BZ:71:TYR:CE1	2.32	0.65
8:BK:110:ASP:OD1	8:BK:130:TYR:OH	2.09	0.65
21:BV:53:ILE:HG22	21:BV:71:VAL:O	1.96	0.65
31:CA:606:G:H5''	31:CA:607:A:C5'	2.27	0.65
31:CA:955:U:H1'	31:CA:1227:A:N6	2.12	0.65
47:CT:43:LEU:HD12	47:CT:68:ARG:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CW:43:LEU:HA	50:CW:46:GLU:HG2	1.78	0.65
53:CD:57:C:H2'	53:CD:58:A:O4'	1.97	0.65
32:DE:92:TYR:CD2	32:DE:151:GLY:HA3	2.32	0.65
35:DH:37:ARG:HG2	35:DH:112:LEU:HA	1.77	0.65
1:AA:945:A:O2'	1:AA:946:G:H4'	1.97	0.64
1:AA:1102:C:H2'	1:AA:1103:A:H8	1.62	0.64
1:AA:1291:C:H5'	1:AA:1536:A:H5'	1.79	0.64
1:AA:1952:A:C2	10:AN:22:ILE:HG13	2.32	0.64
1:AA:2168:G:N2	1:AA:2170:A:OP2	2.30	0.64
1:AA:2287:A:N6	1:AA:2344:U:N3	2.43	0.64
1:AA:2328:A:H2'	1:AA:2329:G:C8	2.32	0.64
1:AA:2469:A:N7	1:AA:2470:G:H1'	2.12	0.64
1:AA:2629:A:O2'	1:AA:2630:G:H5''	1.97	0.64
3:AD:33:LEU:HD13	3:AD:34:VAL:H	1.62	0.64
3:AD:273:ARG:O	3:AD:273:ARG:CG	2.44	0.64
7:AH:92:ILE:H	7:AH:92:ILE:CD1	2.10	0.64
7:AH:97:ARG:NH2	7:AH:104:GLU:OE2	2.29	0.64
11:AO:66:GLY:O	11:AO:67:MET:C	2.40	0.64
16:A1:79:PHE:C	16:A1:79:PHE:CD2	2.72	0.64
24:AW:18:PRO:HA	24:AW:21:LEU:HB2	1.77	0.64
1:BA:91:A:H2'	1:BA:92:G:O4'	1.98	0.64
1:BA:2069:G:C2'	1:BA:2070:G:H5'	2.27	0.64
1:BA:2116:G:OP1	1:BA:2165:G:N2	2.28	0.64
4:BE:12:THR:HG22	15:BR:58:ASN:ND2	2.11	0.64
21:BV:76:LEU:HD23	21:BV:76:LEU:H	1.61	0.64
26:B4:34:GLU:HB2	43:DP:57:ARG:NH2	2.12	0.64
30:B8:34:TRP:O	30:B8:36:LYS:N	2.30	0.64
31:CA:27:G:C4'	34:CG:209:ARG:HG3	2.22	0.64
31:CA:396:G:O2'	31:CA:398:C:OP1	2.09	0.64
31:DA:922:G:H4'	35:DH:20:GLN:HA	1.79	0.64
31:DA:937:A:H1'	31:DA:1379:G:N2	2.12	0.64
31:DA:1298:C:P	37:DJ:114:ARG:HH22	2.20	0.64
40:DM:54:PHE:CE1	40:DM:55:LYS:HE3	2.32	0.64
42:DO:32:PHE:HB3	42:DO:84:LEU:CD2	2.27	0.64
1:AA:581:C:H2'	1:AA:582:G:H8	1.63	0.64
1:AA:902:C:O2'	1:AA:903:C:H5'	1.97	0.64
1:AA:1050:A:H2'	1:AA:1051:G:O4'	1.97	0.64
1:AA:1069:A:O2'	1:AA:1072:C:OP1	2.15	0.64
1:AA:1165:U:H2'	1:AA:1166:C:H6	1.62	0.64
3:AD:30:GLU:HG3	3:AD:63:ARG:CZ	2.27	0.64
3:AD:264:LYS:O	3:AD:267:SER:HB2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:59:VAL:C	4:AE:60:ASN:CG	2.64	0.64
14:AQ:36:TYR:N	14:AQ:36:TYR:CD1	2.61	0.64
15:AR:107:ASP:HB2	31:CA:1432:G:OP1	1.96	0.64
21:AV:52:SER:O	21:AV:52:SER:OG	2.14	0.64
21:AV:141:VAL:HG12	21:AV:142:SER:H	1.62	0.64
1:BA:289:A:H5'	1:BA:290:G:OP2	1.97	0.64
1:BA:900:A:N3	1:BA:900:A:H2'	2.11	0.64
1:BA:990:A:H8	1:BA:990:A:H5'	1.62	0.64
1:BA:2845:G:O2'	1:BA:2846:G:H5'	1.96	0.64
5:BF:24:LEU:HB3	5:BF:25:PRO:HD2	1.79	0.64
5:BF:108:LYS:O	5:BF:112:MET:HG3	1.97	0.64
7:BH:102:ALA:O	7:BH:103:LEU:HB3	1.97	0.64
10:BN:68:GLU:HA	10:BN:78:ARG:HB3	1.80	0.64
12:BP:68:ILE:CG2	12:BP:103:MET:HB3	2.27	0.64
16:B1:98:LEU:O	16:B1:99:ALA:HB3	1.97	0.64
17:B2:48:GLY:C	17:B2:49:THR:O	2.38	0.64
20:BU:39:VAL:HG23	20:BU:40:GLU:N	2.11	0.64
31:CA:792:A:N3	31:CA:794:A:C5	2.65	0.64
31:CA:1194:U:H2'	31:CA:1195:C:C6	2.32	0.64
35:CH:64:ARG:HH11	35:CH:64:ARG:HG3	1.62	0.64
37:CJ:54:THR:OG1	37:CJ:56:GLN:HG2	1.97	0.64
53:CD:21:U:H2'	53:CD:22:A:H5''	1.79	0.64
31:DA:974:A:OP2	44:DQ:41:ARG:NH1	2.29	0.64
31:DA:1133:G:N2	31:DA:1141:C:N3	2.46	0.64
31:DA:1399:C:C2	31:DA:1502:A:N6	2.65	0.64
43:DP:40:ASN:OD1	43:DP:41:PRO:HD2	1.97	0.64
49:DV:42:PRO:HA	49:DV:45:VAL:HG13	1.78	0.64
52:DB:26:C:H5'	52:DB:27:G:OP2	1.98	0.64
1:AA:1049:C:H2'	1:AA:1050:A:C5'	2.26	0.64
1:AA:1517:G:H2'	1:AA:1518:C:C6	2.32	0.64
17:A2:89:GLN:HA	17:A2:89:GLN:HE21	1.61	0.64
22:A3:25:ARG:HA	22:A3:29:GLN:NE2	2.11	0.64
28:A6:24:GLU:HG3	28:A6:25:LYS:H	1.63	0.64
1:BA:1569:A:O2'	3:BD:38:LYS:HG3	1.97	0.64
1:BA:2275:C:H5'	1:BA:2275:C:H6	1.63	0.64
1:BA:2311:A:C2	6:BG:82:LEU:HG	2.32	0.64
1:BA:2329:G:N2	22:B3:41:ARG:HB3	2.13	0.64
3:BD:65:ILE:HD11	3:BD:67:PHE:CZ	2.33	0.64
4:BE:23:VAL:HA	4:BE:184:VAL:O	1.97	0.64
23:BZ:4:VAL:HG12	23:BZ:11:ARG:HB3	1.79	0.64
26:B4:61:ARG:CG	26:B4:62:ARG:HH21	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:719:C:O2'	48:CU:49:LYS:HB3	1.97	0.64
31:CA:843:U:H5'	31:CA:848:C:C5	2.33	0.64
31:CA:1062:U:H2'	31:CA:1063:C:C6	2.32	0.64
32:CE:97:TRP:CH2	32:CE:176:GLU:HG3	2.31	0.64
39:CL:93:ARG:HB2	39:CL:93:ARG:HH11	1.63	0.64
31:DA:160:A:H1'	31:DA:344:A:C5	2.33	0.64
31:DA:892:A:C2	31:DA:907:A:C4	2.86	0.64
31:DA:1320:C:H2'	31:DA:1321:C:C6	2.32	0.64
31:DA:1435:G:H2'	31:DA:1436:U:C6	2.32	0.64
45:DR:24:SER:HB3	45:DR:27:VAL:CG2	2.27	0.64
1:AA:1607:C:H4'	1:AA:1608:A:O5'	1.97	0.64
5:AF:152:GLU:HG3	5:AF:191:ARG:HD2	1.78	0.64
12:AP:7:MET:HE1	12:AP:71:ASP:O	1.96	0.64
14:AQ:86:ALA:O	14:AQ:87:PHE:HB3	1.98	0.64
23:AZ:91:LYS:O	23:AZ:93:GLU:N	2.31	0.64
27:A5:3:LYS:O	27:A5:4:HIS:O	2.13	0.64
1:BA:305:U:H2'	1:BA:306:U:C6	2.32	0.64
1:BA:483:A:C4'	20:BU:49:VAL:HA	2.26	0.64
1:BA:1826:G:C4'	3:BD:242:ARG:HH21	2.08	0.64
31:CA:277:C:P	47:CT:68:ARG:HH12	2.19	0.64
31:CA:989:C:N4	31:CA:1216:G:H1	1.95	0.64
31:CA:1004:A:H2	31:CA:1024:G:C8	2.15	0.64
32:CE:217:ARG:CZ	32:CE:217:ARG:HB2	2.28	0.64
38:CK:51:VAL:HG11	38:CK:60:ARG:HG3	1.80	0.64
47:CT:66:SER:OG	47:CT:69:LYS:HB2	1.98	0.64
31:DA:266:G:H1	31:DA:270:A:H62	1.44	0.64
31:DA:1095:U:H2'	31:DA:1096:C:O4'	1.97	0.64
32:DE:83:MET:HE2	32:DE:234:PRO:HD2	1.79	0.64
39:DL:24:GLY:HA2	39:DL:59:PHE:O	1.97	0.64
42:DO:57:LYS:HG3	42:DO:67:THR:HG22	1.79	0.64
47:DT:59:ILE:HG22	47:DT:71:PHE:HD1	1.62	0.64
49:DV:48:THR:HA	49:DV:61:TYR:HA	1.79	0.64
1:AA:1427:A:H4'	1:AA:1428:C:O5'	1.98	0.64
1:AA:2055:C:OP1	27:A5:8:LYS:NZ	2.28	0.64
1:AA:2164:C:H2'	1:AA:2165:G:H8	1.63	0.64
3:AD:34:VAL:O	3:AD:34:VAL:HG13	1.97	0.64
4:AE:61:ARG:N	4:AE:62:PRO:HD2	2.10	0.64
4:AE:78:LEU:HG	4:AE:79:ARG:H	1.59	0.64
6:AG:78:SER:O	6:AG:81:LYS:N	2.30	0.64
20:AU:76:CYS:CB	20:AU:96:ILE:HD13	2.28	0.64
27:A5:2:ALA:O	27:A5:3:LYS:HD2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:892:G:N7	1:BA:893:C:N4	2.45	0.64
1:BA:1058:U:H3	1:BA:1080:A:N6	1.96	0.64
1:BA:1070:A:H8	1:BA:1096:A:HO2'	1.44	0.64
1:BA:1839:G:C8	1:BA:1927:A:H1'	2.33	0.64
1:BA:2537:U:H2'	1:BA:2538:C:C6	2.32	0.64
2:BB:13:A:N1	2:BB:69:G:O2'	2.24	0.64
5:BF:25:PRO:C	5:BF:27:GLU:H	2.03	0.64
7:BH:41:MET:CE	7:BH:64:LEU:HB2	2.27	0.64
12:BP:3:MET:CB	12:BP:93:TYR:CD1	2.80	0.64
28:B6:28:ARG:HB3	28:B6:30:THR:O	1.97	0.64
31:CA:129(A):G:C2	31:CA:191(A):G:C8	2.86	0.64
31:CA:243:A:H4'	31:CA:244:U:H5''	1.78	0.64
34:CG:5:ILE:HG22	34:CG:6:GLY:N	2.10	0.64
39:CL:70:LYS:O	39:CL:74:ILE:HG13	1.97	0.64
52:CB:27:G:H5'	52:CB:28:C:OP2	1.98	0.64
53:CC:20:G:HO2'	53:CC:21:U:H5	1.42	0.64
31:DA:67:C:H2'	31:DA:68:G:C8	2.31	0.64
31:DA:126:G:H4'	31:DA:634:C:H1'	1.78	0.64
31:DA:976:G:OP1	44:DQ:32:SER:N	2.23	0.64
34:DG:25:ARG:HG3	34:DG:26:CYS:N	2.11	0.64
39:DL:78:LYS:HB2	39:DL:78:LYS:NZ	2.12	0.64
42:DO:41:ARG:HD2	42:DO:42:THR:H	1.62	0.64
43:DP:37:THR:HG21	43:DP:56:LEU:HD23	1.79	0.64
49:DV:23:ASN:HA	49:DV:27:GLU:CG	2.27	0.64
49:DV:41:VAL:HG12	49:DV:42:PRO:HD2	1.80	0.64
1:AA:1494:A:O2'	1:AA:1495:A:H5'	1.97	0.64
1:AA:1858:G:H2'	1:AA:1883:G:H22	1.61	0.64
1:AA:2137:C:N3	1:AA:2154:G:N2	2.35	0.64
4:AE:80:GLU:O	4:AE:82:ARG:N	2.30	0.64
21:AV:7:ALA:HB3	21:AV:61:LEU:HB3	1.79	0.64
1:BA:848:G:H2'	1:BA:849:A:C8	2.33	0.64
1:BA:885:C:N3	1:BA:890:A:C6	2.65	0.64
1:BA:986:C:C2'	1:BA:987:G:H5'	2.27	0.64
1:BA:1274:A:N3	1:BA:1297:C:H1'	2.13	0.64
1:BA:1992:G:O5'	1:BA:1992:G:C8	2.51	0.64
1:BA:2016:U:C1'	27:B5:6:VAL:CG1	2.75	0.64
1:BA:2050:C:H1'	4:BE:156:MET:HE2	1.79	0.64
1:BA:2105:C:H2'	1:BA:2106:G:C8	2.33	0.64
1:BA:2315:G:OP1	6:BG:36:LYS:NZ	2.29	0.64
1:BA:2470:G:OP1	12:BP:56:ARG:NH2	2.29	0.64
3:BD:35:LYS:HZ3	3:BD:104:TYR:H	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BQ:61:ASN:O	14:BQ:65:VAL:HB	1.98	0.64
31:CA:412:A:H1'	31:CA:413:G:OP2	1.98	0.64
31:CA:737:A:H2'	31:CA:738:C:H6	1.61	0.64
31:CA:1139:G:C2	31:CA:1143:G:O6	2.50	0.64
31:CA:1256:A:H4'	31:CA:1258:G:C4	2.33	0.64
32:CE:236:TYR:HA	32:CE:239:VAL:HG21	1.80	0.64
34:CG:84:LYS:N	34:CG:84:LYS:HD2	2.12	0.64
43:CP:39:ILE:HD13	43:CP:52:GLU:HB3	1.79	0.64
52:CB:26:C:H5'	52:CB:27:G:OP2	1.98	0.64
31:DA:1014:A:H4'	49:DV:14:HIS:ND1	2.13	0.64
31:DA:1023:G:H3'	31:DA:1024:G:H5''	1.79	0.64
31:DA:1316:G:H2'	31:DA:1317:C:H5''	1.79	0.64
32:DE:237:ALA:O	32:DE:238:LEU:HB3	1.97	0.64
35:DH:57:LYS:HG2	35:DH:61:TYR:CE2	2.26	0.64
53:DC:48:U:O2'	53:DC:49:C:OP2	2.15	0.64
1:AA:247:G:H4'	1:AA:386:G:C5	2.33	0.64
1:AA:1469:A:H2'	1:AA:1470:G:H8	1.62	0.64
1:AA:1482:U:O4	1:AA:1510:A:C8	2.51	0.64
1:AA:1590:U:H2'	1:AA:1591:G:H8	1.61	0.64
1:AA:1734:C:C2'	1:AA:1735:C:H5''	2.28	0.64
1:AA:2584:U:H2'	1:AA:2585:U:H2'	1.78	0.64
3:AD:44:ASN:N	3:AD:44:ASN:HD22	1.94	0.64
4:AE:35:GLN:HE21	4:AE:37:ARG:CD	2.10	0.64
9:AM:67:LEU:O	9:AM:88:GLU:HG3	1.98	0.64
12:AP:66:ILE:CD1	12:AP:67:ARG:C	2.70	0.64
14:AQ:111:GLU:HA	14:AQ:111:GLU:OE1	1.96	0.64
1:BA:883:G:H2'	1:BA:884:C:C6	2.32	0.64
1:BA:2754:U:H5'	1:BA:2755:C:OP2	1.97	0.64
1:BA:2872:G:O2'	1:BA:2873:A:H5'	1.98	0.64
11:BO:11:GLY:O	11:BO:13:ASN:N	2.30	0.64
31:CA:856:C:H2'	31:CA:857:C:H5'	1.78	0.64
34:CG:190:ASP:O	34:CG:193:ASP:HB2	1.97	0.64
47:CT:76:LEU:HD11	47:CT:78:GLU:C	2.22	0.64
53:CD:9:G:O3'	53:CD:46:G:O2'	2.16	0.64
31:DA:963:G:HO2'	40:DM:54:PHE:HZ	1.40	0.64
31:DA:1275:A:H2'	31:DA:1276:G:O4'	1.97	0.64
31:DA:1312:G:H1	31:DA:1325:C:H42	1.44	0.64
43:DP:108:ARG:HD3	43:DP:114:ARG:HG2	1.80	0.64
44:DQ:36:PHE:HD1	44:DQ:37:PHE:CD2	2.16	0.64
46:DS:49:LEU:HD12	46:DS:50:LYS:H	1.62	0.64
1:AA:775:G:C4	1:AA:794:G:C8	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:999:U:H5''	1:AA:1154:G:O6	1.98	0.64
1:AA:1080:A:H2'	1:AA:1081:U:C6	2.32	0.64
1:AA:1276:A:O2'	13:A0:16:HIS:HE1	1.80	0.64
1:AA:2015:A:O4'	27:A5:2:ALA:HB2	1.98	0.64
1:AA:2162:G:H2'	1:AA:2163:C:H6	1.62	0.64
1:AA:2298:A:H2'	1:AA:2299:G:O4'	1.98	0.64
26:A4:14:ILE:HA	26:A4:31:ILE:O	1.98	0.64
27:A5:16:ARG:HG3	27:A5:17:ASP:N	2.12	0.64
1:BA:21:A:O2'	1:BA:22:C:H5'	1.97	0.64
1:BA:172:C:H2'	1:BA:173:G:H8	1.63	0.64
1:BA:2747:G:H2'	1:BA:2748:A:H8	1.63	0.64
26:B4:59:PHE:HE1	49:DV:68:GLY:HA3	1.62	0.64
28:B6:48:VAL:CG1	28:B6:49:HIS:N	2.29	0.64
31:CA:78:G:H1	31:CA:91:C:H42	1.45	0.64
31:CA:465:A:N6	31:CA:467:G:C2	2.66	0.64
51:CX:12:LYS:HB3	51:CX:22:ARG:HD2	1.79	0.64
31:DA:425:G:O3'	34:DG:45:GLN:NE2	2.31	0.64
31:DA:587:G:N2	31:DA:754:C:OP2	2.30	0.64
31:DA:843:U:H3'	31:DA:848:C:O4'	1.97	0.64
31:DA:1004:A:C1'	31:DA:1036:G:N1	2.53	0.64
31:DA:1159:U:O2'	31:DA:1160:G:N7	2.31	0.64
31:DA:1326:C:OP1	51:DX:17:THR:OG1	2.09	0.64
43:DP:33:ALA:HA	43:DP:59:TYR:HE2	1.63	0.64
49:DV:8:GLY:O	49:DV:9:VAL:HB	1.97	0.64
52:DB:7:G:H3'	52:DB:8:U:H5'	1.78	0.64
52:DB:31:C:H2'	52:DB:32:C:H6	1.63	0.64
53:DC:1:C:C2'	53:DC:2:G:OP2	2.45	0.64
1:AA:1331:A:O2'	1:AA:1332:G:H8	1.81	0.64
1:AA:1665:A:C2'	1:AA:1666:G:H5'	2.27	0.64
3:AD:72:LYS:HD3	3:AD:97:TYR:CE2	2.32	0.64
12:AP:59:ARG:O	12:AP:60:ARG:C	2.41	0.64
18:AS:79:GLY:C	18:AS:100:THR:HG22	2.23	0.64
19:AT:3:THR:O	19:AT:6:ASP:HB2	1.97	0.64
21:AV:63:ASP:CG	21:AV:65:GLN:HE21	2.06	0.64
1:BA:55:G:H2'	1:BA:56:A:H8	1.61	0.64
1:BA:2052:G:O4'	4:BE:142:GLY:HA3	1.98	0.64
4:BE:1:MET:N	4:BE:83:ASP:O	2.31	0.64
7:BH:169:VAL:HG22	7:BH:170:ARG:H	1.61	0.64
9:BM:104:LYS:HA	9:BM:107:LEU:HD12	1.80	0.64
11:BO:105:LEU:HD12	11:BO:105:LEU:N	2.13	0.64
17:B2:78:LYS:O	17:B2:79:VAL:CB	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BS:35:ILE:HG23	27:B5:28:PRO:HD2	1.80	0.64
31:CA:404:U:H2'	31:CA:405:U:C6	2.33	0.64
34:CG:173:TRP:CD1	34:CG:174:LEU:HG	2.32	0.64
45:CR:87:ILE:CG2	45:CR:88:ARG:N	2.59	0.64
53:CC:20:G:O2'	53:CC:21:U:H5	1.81	0.64
31:DA:596:C:O2	31:DA:596:C:H2'	1.97	0.64
32:DE:195:ASP:O	38:DK:68:ARG:NH2	2.31	0.64
36:DI:61:LEU:HD23	36:DI:63:TYR:OH	1.98	0.64
1:AA:950:G:H2'	1:AA:951:C:C6	2.33	0.64
2:AB:50:G:OP1	14:AQ:63:THR:HG23	1.97	0.64
9:AM:137:LYS:HG3	9:AM:138:LEU:N	2.12	0.64
10:AN:13:ASN:ND2	10:AN:97:ARG:HB3	2.13	0.64
11:AO:63:PRO:HA	30:A8:13:ARG:HB3	1.79	0.64
19:AT:41:ASN:N	19:AT:41:ASN:HD22	1.95	0.64
1:BA:228:A:H3'	1:BA:228:A:C8	2.33	0.64
1:BA:310:A:OP1	20:BU:18:GLY:HA2	1.97	0.64
1:BA:534:U:O2'	16:B1:49:HIS:HD2	1.81	0.64
31:CA:955:U:H1'	31:CA:1227:A:H61	1.63	0.64
32:CE:67:THR:HG21	32:CE:155:LEU:CG	2.23	0.64
31:DA:339:C:C2'	31:DA:340:U:H5'	2.28	0.64
31:DA:580:U:H2'	31:DA:581:G:O4'	1.98	0.64
31:DA:1238:A:N7	31:DA:1303:C:H1'	2.13	0.64
33:DF:127:ARG:HH11	33:DF:127:ARG:HG2	1.63	0.64
43:DP:23:TYR:HB3	43:DP:67:GLU:HA	1.78	0.64
1:AA:246:C:C2'	1:AA:247:G:H5'	2.28	0.63
1:AA:852:G:H2'	1:AA:853:G:H8	1.61	0.63
1:AA:1005:C:O2'	9:AM:28:THR:HG21	1.98	0.63
1:AA:1019:U:HO2'	1:AA:1021:A:H2	1.43	0.63
1:AA:1903:G:OP1	3:AD:241:PRO:HB2	1.98	0.63
1:AA:2286:A:H8	28:A6:37:ARG:HH11	1.47	0.63
3:AD:64:ILE:O	3:AD:64:ILE:HG12	1.97	0.63
9:AM:112:LEU:O	9:AM:116:LEU:HG	1.99	0.63
12:AP:66:ILE:HD12	12:AP:67:ARG:CA	2.27	0.63
14:AQ:37:ALA:HB2	14:AQ:101:LEU:HD21	1.79	0.63
14:AQ:106:ARG:N	14:AQ:110:LEU:HD21	2.13	0.63
17:A2:38:LEU:HD12	17:A2:57:VAL:HG12	1.78	0.63
1:BA:2162:G:H2'	1:BA:2163:C:C6	2.31	0.63
1:BA:2312:U:OP1	6:BG:74:LYS:N	2.29	0.63
1:BA:2531:A:H4'	7:BH:157:TYR:HD2	1.63	0.63
2:BB:15:A:H5'	2:BB:16:G:H8	1.60	0.63
21:BV:1:MET:HG2	21:BV:2:GLU:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:5:PRO:C	27:B5:6:VAL:HG23	2.22	0.63
28:B6:11:LEU:HD23	28:B6:26:ASN:CB	2.27	0.63
28:B6:25:LYS:HE3	30:B8:34:TRP:CZ2	2.32	0.63
28:B6:28:ARG:HB3	28:B6:30:THR:C	2.22	0.63
30:B8:22:VAL:CA	30:B8:50:LEU:CD2	2.71	0.63
31:CA:1106:G:C4	31:CA:1107:C:C5	2.86	0.63
38:CK:86:ILE:HG22	38:CK:87:SER:H	1.63	0.63
31:DA:946:A:H2'	31:DA:947:G:C8	2.33	0.63
31:DA:1065:U:C5	31:DA:1190:G:H1'	2.33	0.63
33:DF:195:VAL:C	33:DF:196:LEU:HD23	2.24	0.63
34:DG:178:VAL:HG12	34:DG:179:GLU:N	2.13	0.63
53:DC:59:A:H4'	53:DC:60:A:OP1	1.96	0.63
53:DC:62:C:H2'	53:DC:63:C:C6	2.30	0.63
1:AA:270(M):U:H1'	1:AA:270(N):G:C5	2.32	0.63
1:AA:873:G:H1'	12:AP:29:PHE:HE2	1.63	0.63
1:AA:1094:U:O2'	1:AA:1096:A:OP1	2.15	0.63
1:AA:1480:G:C6	1:AA:1482:U:N3	2.65	0.63
1:AA:1778:U:H2'	1:AA:1784:A:H62	1.64	0.63
1:AA:1899:G:O2'	1:AA:1900:A:P	2.56	0.63
1:AA:2169:A:C6	1:AA:2170:A:N1	2.66	0.63
1:AA:2688:U:C5	1:AA:2720:U:OP2	2.49	0.63
1:AA:2700:C:O2'	1:AA:2701:C:H5'	1.97	0.63
7:AH:131:VAL:HG12	7:AH:132:ARG:N	2.13	0.63
9:AM:130:HIS:HB3	9:AM:134:ARG:HH11	1.64	0.63
12:AP:65:PHE:O	12:AP:66:ILE:CB	2.46	0.63
14:AQ:51:ALA:HB3	14:AQ:73:LEU:HG	1.80	0.63
1:BA:6:A:H4'	9:BM:129:PRO:CB	2.27	0.63
1:BA:1653:G:H1	13:B0:11:ASN:ND2	1.96	0.63
1:BA:1967:C:C2'	1:BA:1968:G:H5'	2.28	0.63
1:BA:2129:C:C4	1:BA:2130:U:N3	2.66	0.63
1:BA:2610:C:H4'	1:BA:2611:U:OP2	1.97	0.63
3:BD:108:PRO:HB3	3:BD:143:HIS:HE1	1.63	0.63
5:BF:82:ILE:O	5:BF:82:ILE:CD1	2.37	0.63
9:BM:128:HIS:HB2	9:BM:129:PRO:HD2	1.79	0.63
10:BN:87:ILE:HG23	10:BN:88:ASN:O	1.98	0.63
15:BR:90:GLN:HE21	15:BR:91:ARG:N	1.95	0.63
22:B3:51:VAL:N	22:B3:62:LEU:HD12	2.14	0.63
23:BZ:11:ARG:HB2	23:BZ:12:PRO:HD2	1.80	0.63
26:B4:56:VAL:HG22	26:B4:57:GLU:H	1.64	0.63
31:CA:430:A:OP1	34:CG:9:CYS:HB2	1.98	0.63
53:CD:38:A:H2'	53:CD:39:A:O4'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:618:C:H5'	31:DA:619:U:H5''	1.80	0.63
31:DA:1148:U:OP1	39:DL:7:THR:HG21	1.98	0.63
48:DU:66:LEU:HD11	48:DU:70:ILE:HD11	1.80	0.63
1:AA:516:C:OP1	27:A5:13:LYS:NZ	2.31	0.63
1:AA:883:G:C6	1:AA:884:C:O2	2.52	0.63
1:AA:887:A:H5'	1:AA:888:C:OP1	1.98	0.63
1:AA:1014:U:C2'	1:AA:1015:G:H5''	2.28	0.63
1:AA:2875:C:C4'	15:AR:5:ALA:HB2	2.29	0.63
5:AF:32:LEU:HD21	5:AF:108:LYS:HB3	1.79	0.63
10:AN:64:ARG:O	10:AN:82:ASN:HA	1.98	0.63
11:AO:50:ARG:O	11:AO:51:PHE:C	2.41	0.63
1:BA:617:G:OP1	5:BF:40:GLN:HG2	1.96	0.63
1:BA:945:A:C5	1:BA:2448:A:N1	2.65	0.63
1:BA:2511:U:O4	1:BA:2575:C:N3	2.31	0.63
4:BE:47:VAL:O	4:BE:80:GLU:CA	2.46	0.63
4:BE:56:PRO:CB	4:BE:57:LYS:HD3	2.27	0.63
31:CA:475:G:H2'	31:CA:476:G:H8	1.63	0.63
31:CA:724:G:O2'	31:CA:725:G:H5'	1.98	0.63
31:CA:975:A:H62	40:CM:60:ARG:HH12	1.46	0.63
31:CA:1002:G:C4	31:CA:1003:G:C8	2.85	0.63
33:CF:130:VAL:O	33:CF:134:ILE:HG12	1.98	0.63
35:CH:148:VAL:HG21	38:CK:107:LEU:HD22	1.80	0.63
40:CM:32:ALA:N	40:CM:78:ASN:OD1	2.22	0.63
40:CM:55:LYS:O	40:CM:56:HIS:CG	2.51	0.63
43:CP:49:THR:HG22	43:CP:51:ALA:H	1.63	0.63
50:CW:26:ASN:HB2	50:CW:71:THR:HG23	1.80	0.63
51:CX:25:LYS:O	51:CX:26:LYS:HB3	1.97	0.63
31:DA:616:G:C2	31:DA:617:G:C8	2.86	0.63
31:DA:1007:C:C2	31:DA:1023:G:N2	2.66	0.63
31:DA:1124:G:O2'	31:DA:1145:C:C4	2.50	0.63
31:DA:1127:G:H22	31:DA:1145:C:H1'	1.63	0.63
31:DA:1160:G:H2'	31:DA:1160:G:N3	2.14	0.63
31:DA:1191:A:OP1	33:DF:3:ASN:ND2	2.30	0.63
32:DE:128:GLU:OE2	32:DE:128:GLU:HA	1.98	0.63
32:DE:231:GLU:HB3	32:DE:232:PRO:HD3	1.78	0.63
39:DL:28:VAL:CG2	39:DL:63:ILE:HB	2.26	0.63
53:DC:18:C:O2'	53:DC:19:G:OP1	2.15	0.63
1:AA:879:G:H1	1:AA:898:C:N4	1.96	0.63
1:AA:908:C:O2'	1:AA:909:A:H5'	1.98	0.63
1:AA:1786:A:C2	1:AA:2606:C:H1'	2.32	0.63
11:AO:11:GLY:C	11:AO:13:ASN:N	2.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:92:ARG:CZ	17:A2:11:GLN:H	2.12	0.63
18:AS:78:GLU:OE1	18:AS:99:ARG:HG2	1.98	0.63
1:BA:96:G:H4'	24:BW:48:HIS:CD2	2.33	0.63
1:BA:1314:C:C2	1:BA:1339:G:N2	2.67	0.63
1:BA:2745:C:H4'	7:BH:142:GLY:O	1.97	0.63
7:BH:9:ILE:HD12	7:BH:49:VAL:HG21	1.79	0.63
11:BO:66:GLY:O	11:BO:67:MET:C	2.40	0.63
11:BO:79:ARG:HD2	11:BO:110:TYR:HE1	1.64	0.63
15:BR:118:ARG:NH1	31:DA:1446:A:N6	2.46	0.63
17:B2:85:LYS:HG3	17:B2:86:GLY:N	2.13	0.63
31:CA:313:A:H2'	31:CA:314:C:H6	1.63	0.63
31:CA:1002:G:H2'	31:CA:1003:G:H8	1.63	0.63
38:CK:88:LYS:HB3	38:CK:89:PRO:HD2	1.80	0.63
52:CB:74:C:H5'	52:CB:75:G:OP2	1.99	0.63
33:DF:73:PRO:O	33:DF:76:VAL:HG22	1.98	0.63
43:DP:15:VAL:HG12	43:DP:45:VAL:HG22	1.81	0.63
1:AA:845:G:H8	1:AA:845:G:OP2	1.82	0.63
1:AA:1056:G:N2	1:AA:1103:A:C6	2.66	0.63
1:AA:2371:G:C4'	28:A6:45:LYS:HG2	2.25	0.63
12:AP:79:LEU:O	12:AP:81:VAL:N	2.32	0.63
1:BA:1607:C:H4'	1:BA:1608:A:O5'	1.97	0.63
1:BA:2219:G:C2'	1:BA:2224:G:H5'	2.28	0.63
11:BO:85:LEU:HA	11:BO:88:LEU:HB3	1.80	0.63
12:BP:84:GLY:O	12:BP:85:LYS:HB2	1.98	0.63
21:BV:128:VAL:HG23	21:BV:160:GLY:HA3	1.79	0.63
21:BV:131:ARG:H	21:BV:131:ARG:HD2	1.64	0.63
28:B6:44:ARG:O	28:B6:45:LYS:HD2	1.98	0.63
31:CA:723:U:O2	31:CA:723:U:H2'	1.98	0.63
31:CA:960:U:H2'	31:CA:960:U:O2	1.98	0.63
31:CA:1366:C:H2'	31:CA:1367:C:H6	1.63	0.63
31:DA:376:G:C5'	46:DS:5:ARG:HD3	2.22	0.63
31:DA:632:A:H8	31:DA:632:A:OP2	1.81	0.63
31:DA:1292:U:H2'	31:DA:1293:G:H8	1.60	0.63
31:DA:1301:U:H2'	31:DA:1301:U:O2	1.98	0.63
35:DH:77:PRO:HG2	35:DH:142:LEU:HD22	1.80	0.63
52:DB:44:G:C2'	52:DB:45:U:H5'	2.29	0.63
1:AA:822:U:O2'	1:AA:823:G:H5'	1.99	0.63
1:AA:1021:A:H61	1:AA:1142(A):A:H61	1.47	0.63
1:AA:1204:A:N1	1:AA:1241:A:H2	1.97	0.63
1:AA:2019:A:H2'	1:AA:2020:A:O5'	1.98	0.63
1:AA:2590:A:OP2	3:AD:237:GLU:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:35:LYS:HD3	3:AD:63:ARG:C	2.23	0.63
8:AK:120:ILE:HD11	8:AK:126:TYR:CZ	2.33	0.63
18:AS:70:TYR:HD2	18:AS:70:TYR:H	1.45	0.63
26:A4:34:GLU:HG2	26:A4:35:VAL:H	1.64	0.63
1:BA:84:A:H61	1:BA:102:G:C2'	2.10	0.63
1:BA:1045:A:O2'	1:BA:1047:G:O4'	2.16	0.63
1:BA:2261:C:C6	22:B3:16:SER:HB3	2.33	0.63
1:BA:2872:G:N9	1:BA:2873:A:C2	2.67	0.63
3:BD:35:LYS:CE	3:BD:104:TYR:HD1	2.11	0.63
7:BH:68:THR:O	7:BH:72:ILE:HG13	1.98	0.63
10:BN:68:GLU:HB3	10:BN:78:ARG:NH1	2.13	0.63
31:CA:89:U:O2'	31:CA:90:C:O4'	2.16	0.63
31:CA:255:G:H1'	47:CT:16:GLN:NE2	2.12	0.63
33:CF:67:THR:HG23	33:CF:102:ASN:HB2	1.81	0.63
49:CV:41:VAL:HG12	49:CV:45:VAL:N	2.14	0.63
53:CC:68:C:C2'	53:CC:69:C:H5'	2.29	0.63
31:DA:973:G:H1'	40:DM:55:LYS:HE2	1.81	0.63
31:DA:1239:A:H4'	31:DA:1240:U:H5''	1.80	0.63
35:DH:90:VAL:O	35:DH:120:THR:HA	1.99	0.63
40:DM:54:PHE:CZ	40:DM:55:LYS:NZ	2.66	0.63
53:DC:18:C:O2'	53:DC:19:G:H5''	1.99	0.63
53:DD:13:C:O2'	53:DD:14:A:OP2	2.16	0.63
1:AA:245:G:O3'	11:AO:70:GLN:O	2.16	0.63
1:AA:1062:G:OP1	1:AA:1070:A:H4'	1.99	0.63
1:AA:1299:G:H3'	1:AA:1639:U:O4	1.99	0.63
1:AA:2562:U:O2'	10:AN:23:ARG:NH1	2.30	0.63
1:AA:2772:C:C5'	4:AE:168:MET:HE3	2.28	0.63
4:AE:35:GLN:NE2	4:AE:37:ARG:HD2	2.13	0.63
12:AP:30:GLY:CA	12:AP:107:ALA:HB2	2.28	0.63
1:BA:529:A:H4'	1:BA:530:G:H5'	1.79	0.63
1:BA:1005:C:H1'	1:BA:1143:A:N1	2.14	0.63
1:BA:1188:U:H4'	17:B2:79:VAL:HG21	1.81	0.63
1:BA:2015:A:O4'	27:B5:2:ALA:CA	2.45	0.63
1:BA:2572:A:OP1	1:BA:2574:G:O2'	2.17	0.63
6:BG:109:VAL:HG13	26:B4:33:VAL:HG11	1.81	0.63
7:BH:152:ARG:CD	7:BH:153:LYS:H	2.12	0.63
12:BP:75:THR:CG2	12:BP:87:LYS:CE	2.60	0.63
17:B2:49:THR:HB	17:B2:50:PRO:HD3	1.79	0.63
28:B6:47:THR:O	28:B6:48:VAL:C	2.42	0.63
31:CA:958:A:C6	31:CA:959:A:C6	2.86	0.63
31:CA:1132:C:O2'	31:CA:1133:G:H5'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:58:GLU:HB2	33:CF:65:ALA:CB	2.29	0.63
38:CK:95:VAL:HG12	38:CK:99:GLU:HB2	1.81	0.63
31:DA:342:C:H2'	31:DA:343:U:H5'	1.81	0.63
31:DA:373:A:N3	31:DA:374:A:C8	2.66	0.63
31:DA:1378:C:H5	31:DA:1379:G:C4	2.16	0.63
36:DI:35:ALA:HB2	36:DI:67:MET:HB3	1.80	0.63
37:DJ:23:VAL:HG13	37:DJ:43:PHE:HE2	1.62	0.63
50:DW:69:GLY:O	50:DW:73:HIS:CD2	2.52	0.63
1:AA:71:A:H2	19:AT:31:HIS:CE1	2.15	0.63
1:AA:851:U:H5'	25:AX:46:ASN:ND2	2.14	0.63
1:AA:900:A:H3'	1:AA:901:A:H8	1.62	0.63
1:AA:1177:A:H4'	1:AA:1178:C:H5''	1.81	0.63
1:AA:2311:A:N3	6:AG:80:PHE:HE1	1.95	0.63
1:AA:2344:U:O2'	28:A6:37:ARG:HG2	1.98	0.63
5:AF:64:ILE:O	5:AF:65:TRP:CD1	2.51	0.63
7:AH:9:ILE:N	7:AH:9:ILE:HD12	2.14	0.63
8:AK:10:GLU:O	8:AK:11:ASN:HB2	1.98	0.63
11:AO:55:ARG:O	11:AO:55:ARG:HG3	1.97	0.63
12:AP:84:GLY:O	12:AP:85:LYS:HB2	1.98	0.63
15:AR:58:ASN:O	15:AR:59:THR:C	2.40	0.63
16:A1:108:GLU:OE1	16:A1:112:ARG:NH1	2.32	0.63
25:AX:39:ASP:OD2	25:AX:44:ARG:NH2	2.32	0.63
1:BA:330:A:H2	1:BA:1210:A:O2'	1.82	0.63
1:BA:2251:G:C2	53:DC:77:A:N6	2.67	0.63
1:BA:2306:C:H3'	1:BA:2307:G:C5'	2.22	0.63
1:BA:2475:C:H5'	1:BA:2476:A:OP2	1.98	0.63
4:BE:79:ARG:HH11	4:BE:79:ARG:HG3	1.63	0.63
4:BE:105:THR:HG21	4:BE:164:ARG:HE	1.62	0.63
5:BF:4:VAL:CG1	5:BF:17:ARG:HE	2.12	0.63
9:BM:29:LYS:HE2	9:BM:29:LYS:HA	1.81	0.63
13:B0:87:TYR:CE1	13:B0:117:VAL:HG12	2.34	0.63
15:BR:3:ARG:HG2	15:BR:6:LEU:H	1.64	0.63
27:B5:4:HIS:O	27:B5:5:PRO:C	2.40	0.63
31:CA:78:G:H1	31:CA:91:C:N4	1.97	0.63
31:CA:558:G:C4	31:CA:559:A:C2	2.87	0.63
31:CA:1342:C:H4'	39:CL:125:TYR:HB3	1.81	0.63
39:CL:97:LYS:HB3	39:CL:98:PRO:HD3	1.80	0.63
43:CP:67:GLU:HG2	43:CP:71:ARG:NH2	2.13	0.63
46:CS:17:TYR:HE1	46:CS:41:PRO:HG3	1.63	0.63
31:DA:1442:G:C2'	31:DA:1443:G:O5'	2.47	0.63
53:DD:22:A:H2'	53:DD:47:G:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:270(L):U:O2	1:AA:270(L):U:H2'	1.99	0.63
1:AA:782:A:H5'	1:AA:783:A:C2	2.34	0.63
1:AA:2035:G:H4'	1:AA:2036:C:OP2	1.97	0.63
4:AE:51:PHE:HD1	4:AE:52:LEU:HG	1.63	0.63
7:AH:10:PRO:C	7:AH:11:VAL:HG13	2.23	0.63
10:AN:76:ALA:HB3	15:AR:75:ILE:HD13	1.81	0.63
11:AO:61:ARG:O	11:AO:62:LEU:CD2	2.45	0.63
16:A1:110:VAL:O	16:A1:113:ALA:HB3	1.99	0.63
28:A6:30:THR:HA	28:A6:32:ASN:N	2.14	0.63
1:BA:660:G:N2	11:BO:12:ALA:HA	2.13	0.63
1:BA:1000:A:C6	1:BA:1001:A:N1	2.67	0.63
15:BR:57:PHE:HD2	15:BR:79:HIS:HD1	1.46	0.63
31:CA:192:U:C4'	50:CW:103:GLY:HA2	2.28	0.63
31:CA:1157:A:O2'	31:CA:1158:C:C2	2.49	0.63
31:CA:1193:G:C2'	31:CA:1194:U:H5'	2.28	0.63
33:CF:107:GLN:H	33:CF:107:GLN:CD	2.06	0.63
40:CM:80:LYS:HA	40:CM:80:LYS:HZ2	1.64	0.63
31:DA:1052:U:H5''	31:DA:1053:G:OP2	1.98	0.63
32:DE:231:GLU:HB3	32:DE:232:PRO:HD2	1.80	0.63
35:DH:36:ASP:CG	35:DH:38:GLN:HB2	2.24	0.63
37:DJ:79:ARG:HG2	37:DJ:84:ASN:ND2	2.12	0.63
41:DN:29:ILE:HG22	41:DN:44:SER:CB	2.28	0.63
42:DO:26:ALA:O	42:DO:27:LEU:HD13	1.98	0.63
42:DO:49:ASN:N	42:DO:49:ASN:ND2	2.46	0.63
43:DP:81:LEU:HD13	43:DP:88:ARG:HH11	1.63	0.63
49:DV:28:LYS:HZ2	49:DV:29:ARG:HG2	1.63	0.63
1:AA:676:A:N1	1:AA:802:A:N1	2.47	0.62
1:AA:1019:U:H3	1:AA:1142(A):A:N6	1.90	0.62
1:AA:1204:A:H2	1:AA:1241:A:N1	1.97	0.62
1:AA:1729:A:C8	1:AA:1731:G:C8	2.87	0.62
1:AA:2636:U:H4'	4:AE:80:GLU:OE1	1.97	0.62
3:AD:125:ILE:HG22	3:AD:125:ILE:O	1.98	0.62
4:AE:78:LEU:CG	4:AE:79:ARG:N	2.62	0.62
4:AE:203:LYS:O	4:AE:203:LYS:HD2	1.99	0.62
7:AH:153:LYS:HB3	7:AH:154:PRO:HD2	1.80	0.62
8:AK:5:LEU:HD23	8:AK:36:ALA:HB2	1.80	0.62
10:AN:97:ARG:NH1	31:CA:339:C:OP2	2.32	0.62
12:AP:63:LYS:HG2	12:AP:64:ILE:N	2.14	0.62
16:A1:90:VAL:HG12	16:A1:91:ASP:HA	1.80	0.62
19:AT:53:LYS:HG2	19:AT:54:VAL:N	2.13	0.62
25:AX:31:LEU:O	25:AX:32:GLN:HB2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A4:16:CYS:HB2	26:A4:36:CYS:N	2.02	0.62
1:BA:148:C:H6	1:BA:148:C:C5'	2.11	0.62
1:BA:912:C:C2	1:BA:913:U:C5	2.87	0.62
1:BA:2068:U:N3	1:BA:2430:A:C2	2.46	0.62
1:BA:2167:U:P	1:BA:2167:U:H6	2.22	0.62
2:BB:89:G:H8	2:BB:89:G:OP2	1.82	0.62
2:BB:90:C:H5'	12:BP:18:LYS:HA	1.81	0.62
3:BD:108:PRO:HG2	3:BD:111:LEU:HB2	1.81	0.62
4:BE:131:ALA:O	4:BE:132:HIS:HB3	2.00	0.62
6:BG:60:LEU:O	6:BG:64:THR:HG22	1.99	0.62
8:BK:143:SER:O	8:BK:144:VAL:HB	1.99	0.62
9:BM:71:ILE:O	9:BM:71:ILE:HD12	1.99	0.62
11:BO:71:VAL:HG13	11:BO:72:PRO:N	2.08	0.62
14:BQ:24:LEU:HD22	14:BQ:24:LEU:H	1.64	0.62
20:BU:98:VAL:HG13	20:BU:99:CYS:H	1.64	0.62
31:CA:711:G:O2'	31:CA:712:A:H5'	1.99	0.62
31:CA:923:A:OP1	35:CH:21:ALA:HB2	1.99	0.62
31:CA:1301:U:H2'	31:CA:1302:U:H5'	1.79	0.62
31:CA:1497:G:C2'	31:CA:1498:U:H5'	2.27	0.62
46:CS:45:THR:HG22	46:CS:47:ASP:H	1.64	0.62
52:CB:85:C:H2'	52:CB:86:C:H5'	1.80	0.62
31:DA:250:A:H4'	31:DA:251:G:O5'	1.99	0.62
31:DA:1200:C:O2	31:DA:1200:C:H2'	1.98	0.62
32:DE:71:VAL:HG11	32:DE:97:TRP:CD1	2.34	0.62
34:DG:122:ARG:HH21	34:DG:134:ASP:HB3	1.62	0.62
35:DH:55:VAL:O	35:DH:58:ALA:HB3	1.99	0.62
39:DL:79:LEU:HD13	39:DL:83:ARG:HD2	1.80	0.62
41:DN:105:VAL:O	41:DN:105:VAL:HG23	1.99	0.62
44:DQ:15:LYS:NZ	44:DQ:15:LYS:HB3	2.14	0.62
1:AA:314:A:H2'	1:AA:315:G:H5'	1.80	0.62
1:AA:654(R):C:H2'	1:AA:654(S):G:H5'	1.79	0.62
1:AA:1494:A:H2'	1:AA:1495:A:C8	2.34	0.62
1:AA:2171:A:H2'	1:AA:2172:U:H6	1.63	0.62
1:AA:2331:G:O4'	22:A3:42:GLY:HA3	1.99	0.62
3:AD:35:LYS:CE	3:AD:64:ILE:C	2.70	0.62
3:AD:131:LEU:HB2	3:AD:136:ILE:CD1	2.28	0.62
4:AE:105:THR:HG21	4:AE:164:ARG:CZ	2.28	0.62
7:AH:122:THR:HG22	7:AH:134:SER:HB2	1.81	0.62
12:AP:19:GLY:HA3	12:AP:98:LYS:HZ2	1.63	0.62
1:BA:637:A:P	11:BO:116:GLY:HA2	2.39	0.62
1:BA:1298:C:H5''	1:BA:1299:G:OP2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2720:U:N3	1:BA:2873:A:C2	2.67	0.62
2:BB:17:C:H2'	2:BB:18:G:O4'	1.98	0.62
17:B2:37:VAL:HG21	17:B2:57:VAL:HG13	1.81	0.62
23:BZ:4:VAL:HG11	23:BZ:11:ARG:NH1	2.14	0.62
31:CA:51:A:OP2	31:CA:52:G:H8	1.80	0.62
31:CA:827:U:O2	31:CA:827:U:O5'	2.16	0.62
31:CA:1061:G:OP2	33:CF:2:GLY:O	2.18	0.62
41:CN:91:ARG:HH11	41:CN:91:ARG:CG	2.12	0.62
49:CV:40:ILE:HG22	49:CV:69:HIS:O	1.99	0.62
31:DA:156:G:H1	31:DA:165:C:H42	1.47	0.62
31:DA:255:G:O6	31:DA:270:A:N6	2.32	0.62
31:DA:452:A:H2'	31:DA:453:A:C8	2.34	0.62
31:DA:1128:C:H1'	31:DA:1146:A:H61	1.64	0.62
39:DL:21:PRO:HA	39:DL:59:PHE:HA	1.79	0.62
53:DC:1:C:H2'	53:DC:2:G:OP2	1.99	0.62
1:AA:494:G:H21	18:AS:57:ASN:HD21	1.47	0.62
1:AA:852:G:H2'	1:AA:853:G:C8	2.34	0.62
1:AA:1060:U:H4'	1:AA:1061:U:O5'	1.98	0.62
1:AA:1299:G:C5	1:AA:1639:U:C5	2.87	0.62
1:AA:1408:C:C2	1:AA:1595:G:N2	2.68	0.62
1:AA:2119:A:N6	1:AA:2170:A:N6	2.47	0.62
1:AA:2593:U:H2'	1:AA:2594:C:H6	1.63	0.62
1:AA:2779:U:O4'	1:AA:2779:U:O2	2.14	0.62
1:AA:2862:G:H2'	1:AA:2863:C:H6	1.63	0.62
2:AB:71:C:H2'	2:AB:72:G:C8	2.32	0.62
3:AD:53:PHE:HB3	3:AD:218:ARG:O	2.00	0.62
4:AE:36:ARG:NH1	4:AE:85:ASN:OD1	2.32	0.62
11:AO:15:ARG:CG	11:AO:15:ARG:NH1	2.39	0.62
11:AO:65:ARG:NH1	11:AO:65:ARG:CG	2.58	0.62
14:AQ:110:LEU:HA	14:AQ:112:PHE:CE1	2.34	0.62
15:AR:107:ASP:H	15:AR:110:ILE:CG2	2.11	0.62
1:BA:234:C:H2'	1:BA:235:U:H6	1.63	0.62
1:BA:997:G:O2'	1:BA:998:C:H5'	1.98	0.62
5:BF:178:PRO:HG2	5:BF:179:GLU:OE1	1.98	0.62
11:BO:75:ILE:H	11:BO:75:ILE:HD13	1.64	0.62
14:BQ:59:LYS:CD	14:BQ:60:GLY:H	2.04	0.62
21:BV:115:GLY:H	21:BV:177:PRO:HG2	1.64	0.62
46:CS:19:ILE:HG22	46:CS:36:ILE:HG13	1.82	0.62
38:DK:51:VAL:HG11	38:DK:60:ARG:HB2	1.81	0.62
50:DW:49:ALA:HB2	50:DW:92:LEU:HD22	1.81	0.62
1:AA:574:C:N3	4:AE:145:LYS:NZ	2.40	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:602:G:O2'	1:AA:655:A:N6	2.31	0.62
1:AA:751:A:H5'	18:AS:90:ARG:HA	1.80	0.62
1:AA:851:U:H5'	25:AX:46:ASN:HD21	1.65	0.62
1:AA:1055:G:H1	1:AA:1104:C:H42	1.47	0.62
1:AA:1077:A:H4'	1:AA:1077:A:OP1	1.99	0.62
1:AA:1728:G:H3'	1:AA:1729:A:H5''	1.81	0.62
1:AA:2321:G:H5''	1:AA:2322:A:OP2	2.00	0.62
1:AA:2345:G:H1'	1:AA:2382:G:H5'	1.80	0.62
1:AA:2376:A:N1	14:AQ:87:PHE:CD2	2.68	0.62
3:AD:166:GLN:HA	3:AD:166:GLN:NE2	2.14	0.62
4:AE:27:LEU:HD13	15:AR:1:MET:CE	2.30	0.62
9:AM:137:LYS:CG	9:AM:138:LEU:H	2.11	0.62
20:AU:5:MET:HE3	20:AU:32:PRO:HA	1.80	0.62
26:A4:56:VAL:HG12	26:A4:60:GLN:HG3	1.82	0.62
27:A5:3:LYS:HA	27:A5:3:LYS:HE3	1.82	0.62
30:A8:22:VAL:HB	30:A8:53:PRO:HB3	1.79	0.62
1:BA:993:G:C1'	17:B2:87:HIS:HE1	2.12	0.62
1:BA:1771:C:HO2'	1:BA:1786:A:H8	1.47	0.62
1:BA:2274:A:N1	1:BA:2276:G:H1'	2.14	0.62
3:BD:34:VAL:C	3:BD:35:LYS:HG3	2.23	0.62
3:BD:44:ASN:OD1	3:BD:44:ASN:N	2.32	0.62
9:BM:36:GLY:HA3	9:BM:48:MET:HE1	1.81	0.62
31:CA:688:G:H2'	31:CA:689:C:H6	1.65	0.62
53:CC:18:C:O2'	53:CC:19:G:OP1	2.17	0.62
31:DA:939:G:H5''	37:DJ:102:ARG:NH2	2.14	0.62
34:DG:13:ARG:O	34:DG:15:GLU:HG2	1.99	0.62
52:DB:15:A:C2	52:DB:21:A:N6	2.68	0.62
1:AA:1290:C:H2'	1:AA:1291:C:C6	2.35	0.62
1:AA:1515:C:H2'	1:AA:1516:U:H6	1.63	0.62
1:AA:2094:G:C2'	1:AA:2095:C:H5'	2.30	0.62
12:AP:136:ALA:HB2	21:AV:52:SER:HB2	1.82	0.62
1:BA:993:G:H1'	17:B2:87:HIS:HE1	1.64	0.62
1:BA:1019:U:O2'	1:BA:1021:A:H2	1.83	0.62
1:BA:1436:G:O2'	1:BA:1477:A:H4'	2.00	0.62
2:BB:1:U:O4	2:BB:119:A:N1	2.33	0.62
6:BG:102:PHE:HE2	6:BG:141:PHE:CE1	2.18	0.62
18:BS:65:LEU:HD13	18:BS:68:ARG:CD	2.29	0.62
19:BT:67:GLY:C	19:BT:69:TYR:H	2.07	0.62
31:CA:791:G:N1	31:CA:792:A:N6	2.47	0.62
52:CB:52:U:H2'	52:CB:53:A:O4'	1.98	0.62
31:DA:422:C:O2'	31:DA:423:G:C2	2.49	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:842:C:H4'	31:DA:848:C:O2	2.00	0.62
31:DA:1127:G:N2	31:DA:1144:G:H22	1.97	0.62
31:DA:1129:C:H4'	31:DA:1130:A:H5'	1.80	0.62
31:DA:1227:A:OP1	49:DV:80:TYR:OH	2.10	0.62
46:DS:72:ARG:HD2	46:DS:73:LEU:HD23	1.80	0.62
48:DU:22:VAL:HG22	48:DU:23:LYS:H	1.63	0.62
48:DU:31:LEU:HD23	48:DU:31:LEU:H	1.62	0.62
1:AA:673:C:H4'	5:AF:82:ILE:HG12	1.82	0.62
1:AA:1464:C:HO2'	1:AA:1528:A:H8	1.45	0.62
1:AA:1795:C:H2'	1:AA:1796:U:H6	1.64	0.62
1:AA:2012:G:OP1	18:AS:11:ARG:NH2	2.25	0.62
3:AD:31:LYS:HZ2	3:AD:33:LEU:HB3	1.64	0.62
7:AH:169:VAL:HG13	7:AH:170:ARG:N	2.13	0.62
8:AK:77:LEU:HD12	8:AK:77:LEU:O	2.00	0.62
9:AM:40:PRO:HB3	16:A1:68:ALA:HB2	1.82	0.62
11:AO:59:LEU:O	11:AO:59:LEU:HD23	1.99	0.62
27:A5:49:CYS:SG	27:A5:60:VAL:HG23	2.39	0.62
1:BA:1005:C:N1	1:BA:1143:A:C2	2.67	0.62
1:BA:1075:C:H2'	1:BA:1076:C:C6	2.35	0.62
1:BA:2564:A:OP1	1:BA:2648:C:H4'	1.99	0.62
4:BE:8:LYS:C	4:BE:9:VAL:HG13	2.25	0.62
6:BG:109:VAL:HG11	6:BG:142:PRO:HD3	1.82	0.62
11:BO:16:ARG:HG3	11:BO:16:ARG:NH1	2.15	0.62
11:BO:79:ARG:CD	11:BO:110:TYR:HE1	2.12	0.62
11:BO:96:THR:CB	11:BO:97:PRO:CD	2.78	0.62
19:BT:21:PHE:CZ	19:BT:92:LEU:HD22	2.35	0.62
20:BU:17:SER:HB2	20:BU:71:LYS:HE2	1.81	0.62
31:CA:1450:U:O2'	31:CA:1451:A:C8	2.53	0.62
34:CG:96:LEU:HD12	34:CG:139:ARG:NH1	2.14	0.62
49:CV:30:LEU:CD1	49:CV:30:LEU:H	2.13	0.62
52:CB:14:A:H61	52:CB:21:A:N6	1.97	0.62
53:CD:22:A:C2	53:CD:47:G:H2'	2.34	0.62
32:DE:102:LEU:HD23	32:DE:182:ILE:HD12	1.82	0.62
33:DF:39:ILE:HG21	33:DF:57:ILE:HD11	1.81	0.62
33:DF:90:GLU:O	33:DF:93:LYS:HB3	1.98	0.62
1:AA:754:C:H2'	1:AA:755:C:C6	2.34	0.62
1:AA:1537:C:H2'	1:AA:1538:G:O4'	2.00	0.62
1:AA:1566:A:O2'	1:AA:1567:A:H5'	1.99	0.62
1:AA:1568:G:H21	3:AD:58:HIS:CE1	2.16	0.62
1:AA:1597:A:C5'	1:AA:1598:C:OP1	2.47	0.62
3:AD:44:ASN:ND2	3:AD:44:ASN:H	1.94	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:24:LEU:HD23	5:AF:115:ALA:HA	1.82	0.62
9:AM:65:LYS:HB2	9:AM:69:GLN:HG3	1.80	0.62
21:AV:23:LYS:HD3	21:AV:40:ASP:HA	1.82	0.62
21:AV:98:MET:HE2	21:AV:100:VAL:HG22	1.82	0.62
1:BA:85:G:OP1	20:BU:30:VAL:HG21	1.98	0.62
1:BA:1005:C:H2'	1:BA:1006:C:H6	1.64	0.62
1:BA:1062:G:N2	1:BA:1077:A:H1'	2.14	0.62
1:BA:1149:G:H2'	1:BA:1150:C:C6	2.35	0.62
1:BA:1964:G:H4'	1:BA:1965:C:OP2	1.99	0.62
2:BB:10:C:C4	2:BB:11:C:C5	2.87	0.62
3:BD:27:THR:HG23	3:BD:28:GLU:N	2.15	0.62
14:BQ:84:GLN:HA	14:BQ:110:LEU:H	1.63	0.62
15:BR:13:ARG:H	15:BR:13:ARG:CD	2.10	0.62
17:B2:35:LEU:C	17:B2:37:VAL:HG13	2.25	0.62
20:BU:50:ARG:O	20:BU:53:PRO:HD3	1.99	0.62
20:BU:81:LYS:HB3	20:BU:82:PRO:HD2	1.80	0.62
30:B8:51:ALA:C	30:B8:53:PRO:N	2.57	0.62
31:CA:76:G:C6	31:CA:77:C:C2	2.88	0.62
31:CA:195:A:N7	31:CA:196:A:C6	2.68	0.62
31:CA:524:G:H2'	31:CA:525:C:C6	2.34	0.62
31:CA:575:G:H4'	31:CA:576:G:OP1	2.00	0.62
31:CA:953:G:H2'	31:CA:954:G:O4'	2.00	0.62
31:DA:323:U:O3'	50:DW:22:ARG:HD3	1.99	0.62
31:DA:973:G:C4	40:DM:55:LYS:HE2	2.34	0.62
37:DJ:72:ARG:HB2	37:DJ:142:GLU:OE2	2.00	0.62
43:DP:92:HIS:CE1	43:DP:98:VAL:HG21	2.35	0.62
53:DD:9:G:O3'	53:DD:46:G:O2'	2.17	0.62
1:AA:302:C:H2'	1:AA:303:U:C6	2.34	0.62
1:AA:2467:C:H4'	12:AP:123:HIS:CD2	2.35	0.62
1:AA:2771:C:H2'	1:AA:2772:C:H6	1.65	0.62
4:AE:37:ARG:HB3	4:AE:42:ASP:CG	2.25	0.62
4:AE:50:GLY:CA	4:AE:77:ILE:HA	2.25	0.62
15:AR:108:ARG:HG3	15:AR:109:GLU:N	2.13	0.62
17:A2:38:LEU:O	17:A2:51:VAL:HG13	2.00	0.62
1:BA:2185:C:H2'	1:BA:2186:G:C8	2.35	0.62
3:BD:35:LYS:CD	3:BD:64:ILE:N	2.62	0.62
7:BH:6:ARG:HB2	7:BH:66:GLY:HA2	1.82	0.62
10:BN:120:GLU:OE1	10:BN:122:LEU:HD21	2.00	0.62
31:CA:933:G:O6	37:CJ:3:ARG:NH2	2.32	0.62
31:CA:1190:G:H5'	33:CF:176:HIS:HE1	1.62	0.62
32:CE:158:LEU:HD12	32:CE:158:LEU:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:204:ASN:HD22	32:CE:205:ASP:N	1.97	0.62
39:CL:99:LEU:HB3	39:CL:101:PHE:CD1	2.35	0.62
53:CD:9:G:O2'	53:CD:10:G:C8	2.52	0.62
31:DA:971:G:N2	31:DA:1363:A:OP2	2.33	0.62
31:DA:1298:C:H4'	31:DA:1299:A:C8	2.35	0.62
50:DW:25:ARG:HG3	50:DW:25:ARG:HH11	1.63	0.62
1:AA:340:A:H2'	1:AA:341:G:O4'	1.99	0.62
1:AA:478:A:C6	1:AA:480:A:C6	2.87	0.62
1:AA:529:A:H8	1:AA:530:G:C6	2.18	0.62
1:AA:592:G:N3	30:A8:4:MET:HE2	2.15	0.62
1:AA:1331:A:HO2'	1:AA:1332:G:H8	1.47	0.62
1:AA:2015:A:H1'	27:A5:2:ALA:N	2.11	0.62
1:AA:2700:C:C2'	1:AA:2701:C:H5'	2.30	0.62
3:AD:28:GLU:HB3	3:AD:29:PRO:HD3	1.82	0.62
8:AK:6:LEU:HD13	8:AK:36:ALA:HA	1.79	0.62
11:AO:122:PRO:HB3	11:AO:141:ALA:HB1	1.81	0.62
16:A1:47:TYR:C	16:A1:47:TYR:CD2	2.77	0.62
17:A2:38:LEU:HD23	17:A2:38:LEU:C	2.24	0.62
1:BA:486:C:H4'	18:BS:60:ASN:HD21	1.63	0.62
1:BA:1244:G:C2'	1:BA:1245:G:H5'	2.30	0.62
1:BA:2261:C:O2'	1:BA:2262:U:H5'	1.99	0.62
1:BA:2420:C:C5	30:B8:31:HIS:O	2.51	0.62
3:BD:35:LYS:HG2	3:BD:64:ILE:HG23	1.80	0.62
12:BP:2:LEU:CD1	12:BP:69:PHE:HE1	2.13	0.62
18:BS:75:TYR:CZ	18:BS:104:THR:HG21	2.35	0.62
20:BU:29:GLU:HB2	20:BU:38:ILE:HD12	1.82	0.62
20:BU:60:PHE:N	20:BU:60:PHE:CD2	2.64	0.62
32:CE:201:ILE:HG21	32:CE:214:ILE:HG21	1.80	0.62
33:CF:81:GLY:O	33:CF:85:ARG:HB2	2.00	0.62
33:CF:108:ASN:ND2	33:CF:144:SER:OG	2.33	0.62
37:CJ:113:GLU:OE2	37:CJ:122:HIS:ND1	2.24	0.62
41:CN:86:GLY:N	41:CN:112:THR:OG1	2.21	0.62
50:CW:30:LYS:NZ	50:CW:80:ARG:HH12	1.98	0.62
31:DA:909:A:H2'	31:DA:910:C:O4'	2.00	0.62
34:DG:8:VAL:O	34:DG:11:LEU:N	2.31	0.62
39:DL:63:ILE:HD11	39:DL:81:ILE:HD11	1.82	0.62
1:AA:580:C:H2'	1:AA:581:C:C6	2.34	0.62
1:AA:626:U:O4	11:AO:107:LYS:HD2	1.99	0.62
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.62
1:AA:1344:G:H4'	1:AA:1384:A:C5	2.34	0.62
1:AA:1348:G:H2'	1:AA:1349:A:H5''	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1771:C:HO2'	1:AA:1786:A:H8	1.48	0.62
1:AA:2133:G:N3	1:AA:2158:A:N6	2.47	0.62
1:AA:2169:A:OP1	1:AA:2169:A:N3	2.33	0.62
1:AA:2377:A:H2'	1:AA:2378:A:C8	2.35	0.62
1:AA:2468:G:H2'	1:AA:2476:A:C5	2.35	0.62
1:AA:2771:C:H2'	1:AA:2772:C:C6	2.35	0.62
2:AB:29:A:H2'	2:AB:30:C:O4'	2.00	0.62
4:AE:68:ALA:HB3	4:AE:69:LYS:HZ3	1.64	0.62
11:AO:120:ALA:HB1	11:AO:138:LEU:HB3	1.82	0.62
1:BA:626:U:O2	11:BO:105:LEU:HB2	1.99	0.62
1:BA:1568:G:H21	3:BD:58:HIS:CE1	2.17	0.62
1:BA:2427:C:H5''	1:BA:2428:G:OP1	2.00	0.62
1:BA:2619:C:H2'	1:BA:2620:C:H6	1.65	0.62
8:BK:73:GLU:HG3	8:BK:136:VAL:HG23	1.82	0.62
12:BP:19:GLY:HA3	12:BP:98:LYS:NZ	2.15	0.62
13:B0:51:LEU:HD22	13:B0:66:VAL:HG13	1.82	0.62
25:BX:7:LYS:HG3	25:BX:34:GLU:HG3	1.81	0.62
31:CA:260:G:H2'	31:CA:261:U:C6	2.35	0.62
31:CA:965:A:C2	31:CA:969:A:N1	2.68	0.62
31:CA:1169:A:C6	31:CA:1170:A:C2	2.88	0.62
31:CA:1524:C:OP1	41:CN:120:ARG:NH1	2.33	0.62
33:CF:8:ILE:O	33:CF:11:ARG:N	2.33	0.62
43:CP:15:VAL:HG23	43:CP:43:THR:O	1.99	0.62
31:DA:345:C:O2	31:DA:346:G:N2	2.33	0.62
31:DA:616:G:N3	31:DA:617:G:C8	2.68	0.62
31:DA:1128:C:O2'	31:DA:1129:C:P	2.58	0.62
34:DG:96:LEU:HD12	34:DG:139:ARG:CZ	2.29	0.62
39:DL:5:TYR:OH	39:DL:16:ARG:HG2	2.00	0.62
51:DX:9:ARG:HG3	51:DX:10:ARG:H	1.65	0.62
5:AF:197:ASP:O	5:AF:198:ALA:HB3	1.98	0.61
8:AK:85:GLU:OE2	8:AK:85:GLU:HA	2.00	0.61
16:A1:50:ARG:HG2	16:A1:53:ARG:NH2	2.15	0.61
24:AW:47:ASN:O	24:AW:50:ILE:HG13	2.00	0.61
25:AX:19:GLN:HE22	25:AX:52:HIS:HE1	1.47	0.61
30:A8:34:TRP:CG	30:A8:35:GLN:N	2.68	0.61
1:BA:288:C:O2	1:BA:288:C:H2'	2.00	0.61
1:BA:329:G:O6	20:BU:19:LYS:HG2	1.99	0.61
1:BA:993:G:C1'	17:B2:87:HIS:CE1	2.83	0.61
1:BA:1047:G:C2'	1:BA:1110:G:H22	2.12	0.61
1:BA:1140:C:C1'	1:BA:1143:A:C8	2.83	0.61
1:BA:1531:C:H42	1:BA:1540:G:H1	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2287:A:C2	1:BA:2346:A:N1	2.68	0.61
1:BA:2552:U:H2'	1:BA:2554:U:H5''	1.82	0.61
4:BE:44:TYR:CD1	4:BE:44:TYR:N	2.62	0.61
6:BG:43:LEU:HD12	6:BG:45:GLU:HG3	1.82	0.61
6:BG:146:TYR:C	6:BG:146:TYR:CD2	2.78	0.61
12:BP:77:LYS:HB3	12:BP:78:PRO:HD2	1.81	0.61
20:BU:96:ILE:HD12	20:BU:98:VAL:CG1	2.29	0.61
27:B5:16:ARG:HH11	27:B5:16:ARG:CG	1.96	0.61
30:B8:35:GLN:NE2	30:B8:35:GLN:O	2.32	0.61
31:CA:313:A:H2'	31:CA:314:C:C6	2.35	0.61
31:CA:342:C:H2'	31:CA:343:U:O4'	2.00	0.61
31:CA:1060:C:O2'	40:CM:56:HIS:CD2	2.53	0.61
31:CA:1226:C:O2	49:CV:83:HIS:HE1	1.81	0.61
42:CO:8:VAL:HG13	47:CT:29:HIS:CD2	2.35	0.61
53:CC:69:C:H2'	53:CC:70:C:C6	2.34	0.61
31:DA:114:U:H2'	31:DA:115:G:C8	2.35	0.61
31:DA:182:U:H5	31:DA:183:G:C4	2.17	0.61
31:DA:723:U:O2'	31:DA:724:G:OP1	2.13	0.61
31:DA:1497:G:C2'	31:DA:1498:U:H5'	2.29	0.61
41:DN:34:ASP:OD1	41:DN:38:ASN:HB2	2.00	0.61
49:DV:9:VAL:O	49:DV:10:PHE:CG	2.53	0.61
1:AA:270(F):U:H2'	1:AA:270(G):C:C6	2.34	0.61
1:AA:889:C:H3'	1:AA:890:A:C4'	2.28	0.61
1:AA:1095:A:N3	1:AA:1095:A:H2'	2.13	0.61
1:AA:1187:G:H5''	17:A2:81:TYR:CE2	2.35	0.61
1:AA:1641:A:H2'	1:AA:1642:G:O4'	2.01	0.61
1:AA:1827:C:C2'	1:AA:1828:G:H5'	2.30	0.61
1:AA:2077:A:H2'	1:AA:2078:C:H6	1.64	0.61
1:AA:2099:U:O2	1:AA:2099:U:H2'	2.00	0.61
1:AA:2150:U:H2'	1:AA:2151:G:C8	2.34	0.61
1:AA:2168:G:N2	1:AA:2170:A:C8	2.68	0.61
1:AA:2272:U:H5''	1:AA:2273:A:OP1	1.99	0.61
8:AK:101:LEU:CD2	8:AK:107:VAL:HB	2.30	0.61
12:AP:77:LYS:O	12:AP:78:PRO:C	2.43	0.61
1:BA:1027:A:N6	1:BA:1126:A:C4	2.68	0.61
1:BA:2303:G:H2'	1:BA:2304:G:H5'	1.82	0.61
1:BA:2684:U:H1'	10:BN:70:LYS:HD3	1.81	0.61
4:BE:130:GLY:O	4:BE:131:ALA:C	2.43	0.61
5:BF:29:ASN:N	5:BF:112:MET:CE	2.63	0.61
5:BF:124:LEU:O	5:BF:126:VAL:HG13	2.00	0.61
6:BG:145:THR:O	6:BG:146:TYR:HB3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BK:78:THR:CB	8:BK:104:GLN:HE22	2.12	0.61
10:BN:49:ARG:HD3	10:BN:49:ARG:N	2.12	0.61
16:B1:90:VAL:HG22	17:B2:39:LEU:HB3	1.81	0.61
20:BU:94:LYS:O	20:BU:101:LYS:HB2	1.99	0.61
25:BX:5:LYS:HD3	25:BX:34:GLU:OE1	2.00	0.61
31:CA:192:U:H4'	50:CW:103:GLY:HA2	1.81	0.61
31:CA:1318:A:H1'	49:CV:37:ARG:HH21	1.64	0.61
32:CE:6:THR:OG1	32:CE:7:VAL:N	2.32	0.61
32:CE:233:SER:HB2	32:CE:234:PRO:HD2	1.82	0.61
33:CF:126:ARG:HH11	33:CF:126:ARG:CG	2.13	0.61
50:CW:49:ALA:HB1	50:CW:99:LEU:HB2	1.80	0.61
31:DA:652:U:O2'	31:DA:653:A:H5''	1.99	0.61
31:DA:1226:C:C5	43:DP:104:ARG:HB2	2.35	0.61
53:DC:73:A:N6	53:DC:74:A:N6	2.48	0.61
53:DD:39:A:H2'	53:DD:40:C:H5'	1.82	0.61
1:AA:1716:U:O2'	1:AA:1717:G:H5'	1.99	0.61
1:AA:1826:G:H4'	3:AD:242:ARG:NH2	2.16	0.61
1:AA:2648:C:H2'	1:AA:2649:U:H6	1.65	0.61
1:AA:2712:U:OP1	1:AA:2714:G:H4'	2.01	0.61
1:AA:2807:G:H3'	1:AA:2808:U:H5''	1.81	0.61
1:AA:2870:C:H5''	13:A0:65:LEU:HD21	1.83	0.61
9:AM:126:PRO:HB2	9:AM:127:ASP:OD1	2.00	0.61
12:AP:30:GLY:HA3	12:AP:107:ALA:HB2	1.80	0.61
14:AQ:101:LEU:HD12	14:AQ:101:LEU:O	2.00	0.61
17:A2:76:LYS:HG3	17:A2:81:TYR:CD1	2.35	0.61
19:AT:49:VAL:HG12	19:AT:50:LYS:N	2.14	0.61
19:AT:67:GLY:C	19:AT:69:TYR:H	2.06	0.61
21:AV:103:ARG:HG3	21:AV:136:PHE:CD1	2.35	0.61
23:AZ:83:GLU:C	23:AZ:85:LEU:H	2.09	0.61
26:A4:66:SER:OG	49:CV:9:VAL:HG21	1.99	0.61
1:BA:1056:G:H4'	1:BA:1086:A:H1'	1.83	0.61
1:BA:1225:C:C4'	17:B2:85:LYS:HB3	2.30	0.61
1:BA:1606:G:H5''	1:BA:1607:C:OP1	2.00	0.61
1:BA:1887:C:C2'	1:BA:1888:G:H5''	2.30	0.61
1:BA:2213:U:H4'	23:BZ:52:ARG:NH2	2.15	0.61
1:BA:2531:A:C5'	7:BH:157:TYR:HE2	2.13	0.61
2:BB:45:A:H2'	2:BB:45:A:N3	2.13	0.61
11:BO:100:LEU:HD23	11:BO:112:LEU:HD11	1.82	0.61
12:BP:88:GLY:O	12:BP:89:ASN:HB2	2.00	0.61
15:BR:64:ARG:HB2	15:BR:73:GLU:HG2	1.82	0.61
15:BR:91:ARG:HD2	15:BR:124:ASP:OD1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B4:33:VAL:HG23	26:B4:33:VAL:O	2.01	0.61
28:B6:48:VAL:O	28:B6:49:HIS:CB	2.36	0.61
30:B8:25:MET:O	30:B8:48:PHE:HE1	1.83	0.61
31:CA:530:G:C4'	31:CA:531:U:OP2	2.47	0.61
31:CA:919:A:O2'	31:CA:920:U:H5'	2.00	0.61
31:CA:1182:G:H4'	31:CA:1183:A:C5'	2.25	0.61
32:CE:74:LYS:HD2	32:CE:166:ASP:HB2	1.82	0.61
33:CF:20:SER:HB2	33:CF:57:ILE:HB	1.81	0.61
31:DA:527:G:H2'	31:DA:528:C:H5'	1.80	0.61
31:DA:1149:C:O2'	31:DA:1280:A:N1	2.33	0.61
43:DP:39:ILE:HG22	43:DP:40:ASN:H	1.65	0.61
44:DQ:13:THR:N	44:DQ:14:PRO:CD	2.63	0.61
49:DV:9:VAL:HG11	49:DV:11:VAL:CG1	2.30	0.61
50:DW:10:LEU:HD22	50:DW:10:LEU:C	2.26	0.61
6:AG:173:LEU:HB3	6:AG:178:PHE:CD2	2.34	0.61
12:AP:58:PHE:HD1	12:AP:58:PHE:O	1.83	0.61
23:AZ:83:GLU:OE2	23:AZ:85:LEU:HB2	1.99	0.61
1:BA:588:U:H1'	5:BF:90:PHE:CB	2.31	0.61
1:BA:729:G:H2'	1:BA:1775:U:H1'	1.82	0.61
1:BA:1416:G:H2'	1:BA:1417:C:C6	2.36	0.61
1:BA:1444(A):A:H4'	1:BA:1460:A:H2'	1.81	0.61
1:BA:2015:A:O4'	27:B5:2:ALA:HA	1.99	0.61
7:BH:86:GLU:HA	7:BH:132:ARG:HB2	1.83	0.61
11:BO:59:LEU:O	11:BO:59:LEU:HD23	1.99	0.61
12:BP:133:ARG:O	12:BP:133:ARG:HD3	2.00	0.61
24:BW:15:LYS:HA	24:BW:67:LYS:HZ1	1.65	0.61
30:B8:30:ARG:O	30:B8:30:ARG:HG3	1.99	0.61
31:CA:22:G:H2'	31:CA:23:C:C6	2.35	0.61
31:CA:96:G:H2'	31:CA:97:U:H5'	1.82	0.61
31:CA:973:G:H3'	31:CA:974:A:H5''	1.82	0.61
31:CA:1157:A:O2'	31:CA:1158:C:O2	2.17	0.61
32:CE:87:ARG:NH1	32:CE:220:ASP:OD1	2.30	0.61
35:CH:76:ILE:HB	35:CH:77:PRO:HD2	1.82	0.61
39:CL:50:LEU:HD22	39:CL:55:ALA:HB3	1.81	0.61
33:DF:14:ILE:HG12	33:DF:15:THR:N	2.15	0.61
36:DI:15:ASP:OD1	36:DI:15:ASP:C	2.42	0.61
38:DK:51:VAL:HG11	38:DK:60:ARG:HH11	1.63	0.61
52:DB:22:G:N2	52:DB:59:U:O4'	2.32	0.61
1:AA:2292:C:P	14:AQ:17:ARG:HH22	2.22	0.61
1:AA:2296:U:OP2	14:AQ:9:ARG:NH1	2.32	0.61
4:AE:55:ASN:HB2	4:AE:73:GLU:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:68:ALA:HB3	4:AE:69:LYS:NZ	2.15	0.61
13:A0:9:LYS:HA	13:A0:17:ARG:NE	2.15	0.61
1:BA:598:G:H1'	11:BO:12:ALA:HB2	1.83	0.61
2:BB:83:G:N2	2:BB:93:C:N3	2.43	0.61
5:BF:5:ALA:HB1	5:BF:125:LEU:HD21	1.82	0.61
8:BK:5:LEU:HD12	8:BK:5:LEU:H	1.65	0.61
11:BO:19:VAL:HG23	11:BO:27:HIS:CG	2.35	0.61
11:BO:80:TYR:CD1	11:BO:111:ARG:CB	2.83	0.61
16:B1:91:ASP:OD2	16:B1:96:ALA:HB2	1.99	0.61
23:BZ:78:LYS:HE2	23:BZ:78:LYS:O	1.99	0.61
31:CA:1025:U:O2'	31:CA:1026:G:H8	1.83	0.61
31:CA:1374:A:O2'	37:CJ:28:ASN:HB3	2.00	0.61
32:CE:17:PHE:O	32:CE:17:PHE:HD1	1.83	0.61
37:CJ:102:ARG:O	37:CJ:106:GLN:HG3	2.01	0.61
45:CR:25:THR:HG21	45:CR:70:LEU:HB2	1.83	0.61
52:CB:16:U:C2	52:CB:70:G:N2	2.69	0.61
31:DA:1054:C:N4	52:DB:35:G:C8	2.68	0.61
31:DA:1226:C:OP2	43:DP:103:THR:HG21	1.99	0.61
31:DA:1311:G:N2	31:DA:1327:C:C2	2.68	0.61
33:DF:58:GLU:HB2	33:DF:65:ALA:CB	2.30	0.61
34:DG:146:ILE:H	34:DG:146:ILE:HD12	1.64	0.61
53:DD:19:G:H1'	53:DD:59:A:C2	2.35	0.61
1:AA:141:A:H8	1:AA:1595:G:H21	1.49	0.61
1:AA:919:G:N2	1:AA:2269:A:OP2	2.33	0.61
1:AA:1188:U:C2'	1:AA:1189:A:H5'	2.30	0.61
1:AA:1386:C:H2'	1:AA:1387:C:H6	1.65	0.61
1:AA:1430:C:H2'	1:AA:1431:U:C6	2.36	0.61
1:AA:2168:G:H2'	1:AA:2168:G:N3	2.16	0.61
4:AE:60:ASN:CG	4:AE:62:PRO:HD2	2.26	0.61
12:AP:36:ALA:O	12:AP:99:PRO:HA	2.01	0.61
24:AW:50:ILE:CD1	24:AW:51:ARG:N	2.61	0.61
26:A4:56:VAL:HG22	49:CV:65:ASN:HA	1.82	0.61
28:A6:11:LEU:HD21	28:A6:51:GLU:HG3	1.82	0.61
1:BA:1057:A:C2	1:BA:1081:U:N3	2.68	0.61
1:BA:2292:C:C2'	1:BA:2293:C:H5'	2.30	0.61
4:BE:47:VAL:CG1	4:BE:49:LEU:CD2	2.79	0.61
11:BO:81:GLN:OE1	11:BO:106:LEU:HA	2.01	0.61
13:B0:21:TYR:CZ	13:B0:43:GLU:HG2	2.36	0.61
15:BR:27:THR:HG23	15:BR:90:GLN:HB3	1.82	0.61
17:B2:87:HIS:O	17:B2:87:HIS:ND1	2.33	0.61
20:BU:47:LYS:HG2	20:BU:60:PHE:CD1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:232:G:C5	31:CA:233:C:C5	2.89	0.61
31:CA:1503:A:H5'	31:CA:1531:A:H1'	1.83	0.61
31:DA:342:C:C2'	31:DA:343:U:H5'	2.30	0.61
31:DA:1320:C:O2	49:DV:72:GLY:HA3	2.00	0.61
32:DE:105:PHE:O	32:DE:109:SER:N	2.30	0.61
33:DF:16:ARG:HB2	33:DF:16:ARG:NH1	2.16	0.61
43:DP:49:THR:HB	43:DP:52:GLU:OE1	1.98	0.61
1:AA:507:A:H5''	1:AA:508:G:H5'	1.81	0.61
1:AA:581:C:H2'	1:AA:582:G:C8	2.36	0.61
1:AA:1204:A:C2	1:AA:1241:A:N1	2.69	0.61
3:AD:32:SER:HA	3:AD:36:PRO:HD2	1.82	0.61
6:AG:82:LEU:CA	6:AG:86:MET:CE	2.68	0.61
17:A2:44:LYS:C	17:A2:46:VAL:N	2.58	0.61
30:A8:26:LYS:HB3	30:A8:44:LYS:HG3	1.83	0.61
1:BA:476:G:H4'	1:BA:502:A:N1	2.16	0.61
1:BA:1088:A:H4'	1:BA:1089:G:C8	2.34	0.61
1:BA:2321:G:H2'	1:BA:2321:G:N3	2.14	0.61
1:BA:2593:U:H2'	1:BA:2594:C:C6	2.34	0.61
2:BB:29:A:C2	2:BB:56:G:C2	2.88	0.61
3:BD:228:PRO:HD3	3:BD:235:GLY:HA3	1.82	0.61
11:BO:61:ARG:O	11:BO:62:LEU:CD2	2.45	0.61
14:BQ:61:ASN:HB3	14:BQ:64:GLU:HB2	1.82	0.61
17:B2:44:LYS:HG3	17:B2:45:THR:N	2.16	0.61
21:BV:30:ASN:OD1	21:BV:33:LEU:HB3	2.00	0.61
28:B6:41:PRO:HD2	28:B6:46:HIS:H	1.66	0.61
31:CA:466:C:H5''	31:CA:467:G:OP2	1.99	0.61
31:CA:974:A:C2'	31:CA:975:A:OP2	2.48	0.61
31:CA:1501:C:C5	31:CA:1504:G:C5	2.89	0.61
33:CF:123:GLN:O	33:CF:128:PHE:HB2	2.00	0.61
49:CV:11:VAL:HG23	49:CV:38:SER:HB2	1.83	0.61
31:DA:279:A:H4'	31:DA:280:C:O5'	1.99	0.61
31:DA:740:U:O2'	31:DA:741:G:H5'	2.00	0.61
31:DA:1337:G:H5''	31:DA:1338:G:OP1	2.01	0.61
31:DA:1502:A:H4'	31:DA:1503:A:OP2	1.99	0.61
32:DE:17:PHE:CE2	32:DE:44:LEU:HA	2.32	0.61
34:DG:24:GLU:HG2	34:DG:25:ARG:H	1.66	0.61
37:DJ:16:LEU:CD1	39:DL:42:ARG:HA	2.29	0.61
42:DO:8:ASN:HD22	47:DT:34:LYS:HE2	1.66	0.61
52:DB:15:A:OP2	52:DB:16:U:H5	1.83	0.61
1:AA:128:C:H4'	29:A7:49:ARG:HH21	1.65	0.61
1:AA:1038:C:H2'	1:AA:1039:G:O4'	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1169:G:H1	1:AA:1180:C:N4	1.98	0.61
1:AA:2082:A:H2'	1:AA:2083:G:O4'	2.01	0.61
1:AA:2335:A:N7	1:AA:2337:G:C5	2.69	0.61
4:AE:23:VAL:CA	4:AE:184:VAL:O	2.49	0.61
6:AG:80:PHE:O	6:AG:81:LYS:C	2.43	0.61
11:AO:57:THR:O	11:AO:59:LEU:N	2.34	0.61
14:AQ:23:ARG:HD3	14:AQ:85:VAL:O	2.00	0.61
1:BA:1676:A:C2	1:BA:1993:U:H5'	2.35	0.61
1:BA:1728:G:C2	1:BA:1730:U:OP2	2.53	0.61
1:BA:2496:C:OP1	12:BP:82:ARG:HB3	2.01	0.61
7:BH:87:LEU:N	7:BH:131:VAL:O	2.29	0.61
15:BR:24:PRO:HA	15:BR:49:VAL:HG13	1.83	0.61
19:BT:40:LYS:HA	19:BT:51:VAL:HG11	1.82	0.61
31:CA:662:G:H2'	31:CA:663:A:C8	2.36	0.61
31:CA:1053:G:N7	31:CA:1199:U:H3'	2.14	0.61
31:CA:1140:C:H2'	31:CA:1141:C:H6	1.66	0.61
34:CG:30:LYS:C	34:CG:32:ALA:H	2.03	0.61
35:CH:32:VAL:HB	35:CH:58:ALA:HB1	1.83	0.61
40:CM:38:ILE:O	40:CM:38:ILE:HG13	2.01	0.61
53:CC:69:C:H2'	53:CC:70:C:H6	1.66	0.61
31:DA:77:C:H3'	31:DA:78:G:H5''	1.82	0.61
56:DA:1805:PAR:H642	56:DA:1805:PAR:O33	2.01	0.61
32:DE:18:GLY:O	32:DE:19:HIS:ND1	2.30	0.61
32:DE:69:LEU:HG	32:DE:91:PRO:HB2	1.82	0.61
32:DE:100:GLY:N	32:DE:176:GLU:OE2	2.27	0.61
33:DF:131:ARG:NH1	35:DH:50:GLU:HG3	2.16	0.61
34:DG:149:ALA:O	34:DG:153:ARG:HG2	2.00	0.61
35:DH:103:GLY:O	35:DH:106:PRO:HD2	2.00	0.61
48:DU:29:PHE:HD2	48:DU:29:PHE:N	1.98	0.61
1:AA:405:U:O2	1:AA:405:U:H2'	2.00	0.61
1:AA:1084:A:N6	1:AA:1085:A:H62	1.99	0.61
1:AA:1188:U:C4'	17:A2:79:VAL:HG22	2.29	0.61
1:AA:1385:G:O2'	1:AA:1396:U:H6	1.82	0.61
1:AA:1517:G:H2'	1:AA:1518:C:H6	1.66	0.61
1:AA:2469:A:H61	1:AA:2481:G:H1'	1.66	0.61
6:AG:77:ILE:O	6:AG:77:ILE:CG2	2.48	0.61
8:AK:29:TYR:C	8:AK:32:PRO:HD2	2.26	0.61
8:AK:73:GLU:HG3	8:AK:137:PRO:HD2	1.81	0.61
21:AV:161:VAL:HG12	21:AV:162:GLU:HG2	1.83	0.61
26:A4:52:THR:OG1	26:A4:53:GLU:N	2.33	0.61
1:BA:322:A:H5'	1:BA:340:A:H1'	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2016:U:C1'	27:B5:6:VAL:HG13	2.31	0.61
1:BA:2567:G:H2'	1:BA:2568:C:C6	2.36	0.61
1:BA:2580:U:H4'	4:BE:130:GLY:CA	2.31	0.61
3:BD:146:GLU:HB2	3:BD:189:CYS:HB3	1.82	0.61
3:BD:242:ARG:N	3:BD:242:ARG:CD	2.63	0.61
4:BE:79:ARG:N	4:BE:79:ARG:HD2	2.15	0.61
11:BO:79:ARG:NE	11:BO:110:TYR:HE1	1.96	0.61
11:BO:105:LEU:O	11:BO:106:LEU:CB	2.49	0.61
12:BP:36:ALA:HB1	12:BP:127:ILE:HD12	1.82	0.61
12:BP:78:PRO:HG2	12:BP:81:VAL:HG11	1.82	0.61
17:B2:43:GLU:O	17:B2:44:LYS:HG2	2.01	0.61
21:BV:29:TYR:HA	21:BV:33:LEU:O	2.01	0.61
30:B8:14:VAL:HG22	30:B8:24:ALA:HB2	1.82	0.61
31:CA:570:G:H1'	31:CA:820:U:C4	2.36	0.61
31:CA:965:A:C2	31:CA:969:A:C2	2.88	0.61
33:CF:131:ARG:NH1	33:CF:166:GLU:OE2	2.34	0.61
45:CR:18:PHE:CZ	45:CR:21:ASP:HB2	2.36	0.61
52:CB:58:U:O2	52:CB:58:U:H2'	2.01	0.61
31:DA:1014:A:H2'	31:DA:1015:A:C8	2.35	0.61
31:DA:1022:G:H2'	31:DA:1023:G:O4'	2.00	0.61
33:DF:18:TRP:HE1	44:DQ:55:GLY:H	1.49	0.61
42:DO:58:VAL:O	42:DO:65:GLU:HA	2.00	0.61
1:AA:1899:G:O2'	1:AA:1900:A:OP2	2.17	0.61
4:AE:59:VAL:O	4:AE:62:PRO:HD2	2.01	0.61
4:AE:61:ARG:H	4:AE:62:PRO:HD2	1.65	0.61
5:AF:177:ALA:HB1	5:AF:178:PRO:HD2	1.82	0.61
11:AO:88:LEU:HD12	11:AO:95:VAL:HG11	1.83	0.61
11:AO:112:LEU:H	11:AO:128:HIS:CD2	2.18	0.61
26:A4:37:SER:CB	26:A4:42:PHE:HB3	2.30	0.61
1:BA:172:C:H2'	1:BA:173:G:C8	2.36	0.61
1:BA:608:A:H2'	1:BA:609:A:C8	2.36	0.61
1:BA:988:A:H3'	25:BX:11:SER:OG	2.01	0.61
1:BA:1018:C:O2'	1:BA:1019:U:H5'	2.01	0.61
3:BD:186:HIS:CD2	3:BD:188:GLU:H	2.05	0.61
15:BR:91:ARG:NH1	15:BR:124:ASP:OD1	2.33	0.61
15:BR:93:ARG:CG	15:BR:117:ASP:HB3	2.30	0.61
21:BV:19:ARG:HH11	21:BV:84:GLU:HB2	1.64	0.61
31:CA:8:A:N6	34:CG:205:GLU:O	2.34	0.61
42:CO:21:VAL:HG11	42:CO:24:LEU:HD11	1.82	0.61
42:CO:40:VAL:HG23	42:CO:90:LEU:HD22	1.83	0.61
31:DA:164:U:H2'	31:DA:165:C:C6	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1004:A:H5''	31:DA:1025:U:C4	2.35	0.61
41:DN:34:ASP:HB2	41:DN:35:PRO:CD	2.31	0.61
1:AA:841:A:H2'	1:AA:842:G:C8	2.36	0.60
1:AA:855:G:O2'	22:A3:27:GLU:OE2	2.17	0.60
1:AA:1494:A:C2'	1:AA:1495:A:H5'	2.30	0.60
1:AA:2593:U:H2'	1:AA:2594:C:C6	2.35	0.60
1:AA:2688:U:H1'	1:AA:2721:A:N6	2.16	0.60
1:AA:2729:G:H1'	4:AE:187:ALA:HB2	1.83	0.60
15:AR:123:GLN:O	15:AR:124:ASP:HB2	2.01	0.60
16:A1:66:ASN:HD21	16:A1:70:ARG:HE	1.48	0.60
28:A6:45:LYS:HA	28:A6:45:LYS:CE	2.26	0.60
1:BA:76:C:H2'	1:BA:77:C:H6	1.67	0.60
1:BA:330:A:H2	1:BA:1210:A:H2'	1.65	0.60
1:BA:528:A:C2	1:BA:2043:C:H4'	2.36	0.60
1:BA:851:U:OP1	25:BX:49:LYS:HE2	2.01	0.60
1:BA:1332:G:N2	1:BA:1610:A:H8	1.99	0.60
1:BA:1431:U:H2'	1:BA:1432:C:C6	2.35	0.60
1:BA:2345:G:N3	1:BA:2381:C:H2'	2.16	0.60
1:BA:2838:G:C6	1:BA:2839:G:C5	2.89	0.60
10:BN:34:THR:O	10:BN:37:ASP:HB2	2.00	0.60
22:B3:18:ALA:HB3	22:B3:20:ARG:NE	2.15	0.60
28:B6:38:LYS:NZ	28:B6:46:HIS:CD2	2.67	0.60
31:CA:1190:G:C5'	33:CF:176:HIS:CE1	2.84	0.60
31:CA:1378:C:O2	31:CA:1378:C:H2'	2.01	0.60
34:CG:99:SER:O	34:CG:140:VAL:HG22	2.01	0.60
37:CJ:50:ILE:HB	37:CJ:58:PRO:HG3	1.83	0.60
31:DA:229:U:O2'	46:DS:23:ASP:OD2	2.19	0.60
31:DA:1216:G:OP1	44:DQ:2:ALA:N	2.34	0.60
31:DA:1354:C:O2'	31:DA:1355:G:H5'	2.01	0.60
32:DE:8:LYS:O	32:DE:9:GLU:HB3	2.00	0.60
50:DW:10:LEU:HD13	50:DW:10:LEU:O	2.01	0.60
50:DW:33:ILE:HD13	50:DW:62:LEU:HB3	1.83	0.60
1:AA:1742:C:H5'	1:AA:1743:G:OP2	2.02	0.60
2:AB:90:C:P	12:AP:16:ARG:HH21	2.24	0.60
9:AM:46:VAL:HG13	9:AM:48:MET:HG3	1.83	0.60
21:AV:58:VAL:HG12	21:AV:66:SER:HB3	1.83	0.60
1:BA:288:C:H2'	1:BA:289:A:C8	2.36	0.60
1:BA:674:G:O2'	5:BF:74:ARG:HG3	2.01	0.60
1:BA:1864:U:H2'	1:BA:1869:G:H5''	1.83	0.60
2:BB:38:C:H42	2:BB:44:G:H1	1.49	0.60
4:BE:36:ARG:HH11	4:BE:36:ARG:CG	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:51:PHE:C	4:BE:74:PRO:HB3	2.26	0.60
5:BF:29:ASN:N	5:BF:112:MET:HE1	2.15	0.60
6:BG:67:LYS:H	26:B4:6:HIS:CD2	2.18	0.60
9:BM:30:ILE:HG22	9:BM:34:LEU:HD22	1.83	0.60
11:BO:61:ARG:HB2	11:BO:61:ARG:CZ	2.25	0.60
19:BT:5:TYR:CZ	24:BW:30:ARG:HG3	2.36	0.60
21:BV:126:VAL:HG12	21:BV:163:LEU:HA	1.83	0.60
22:B3:18:ALA:CB	22:B3:20:ARG:HE	2.14	0.60
26:B4:61:ARG:HG3	26:B4:62:ARG:NH2	2.15	0.60
31:CA:976:G:N2	31:CA:1362(A):C:OP2	2.31	0.60
31:CA:1305:G:H5''	51:CX:4:GLY:C	2.26	0.60
34:CG:13:ARG:HD2	34:CG:38:TYR:O	2.01	0.60
40:CM:96:ILE:H	40:CM:96:ILE:HD13	1.66	0.60
53:CD:13:C:HO2'	53:CD:14:A:P	2.24	0.60
31:DA:198:G:OP2	31:DA:198:G:H8	1.84	0.60
31:DA:960:U:O2	31:DA:1225:A:C5	2.54	0.60
31:DA:1128:C:N3	31:DA:1139:G:N1	2.49	0.60
32:DE:47:THR:HA	32:DE:202:PRO:HG2	1.84	0.60
35:DH:101:ILE:HD11	35:DH:119:LEU:CD2	2.24	0.60
47:DT:66:SER:O	47:DT:70:ARG:NH1	2.34	0.60
1:AA:325:G:O2'	1:AA:326:G:H5'	2.02	0.60
1:AA:1598:C:H2'	1:AA:1599:C:C6	2.35	0.60
1:AA:1800:C:OP1	3:AD:266:SER:OG	2.17	0.60
1:AA:2822:G:H2'	1:AA:2823:A:H5''	1.84	0.60
12:AP:75:THR:HB	12:AP:89:ASN:H	1.66	0.60
21:AV:11:GLU:HA	21:AV:36:LYS:HE3	1.81	0.60
30:A8:14:VAL:HG11	30:A8:60:LEU:CD1	2.25	0.60
1:BA:602:G:O2'	1:BA:604:G:O2'	2.19	0.60
1:BA:919:G:N2	1:BA:2269:A:OP2	2.33	0.60
1:BA:1346:G:H2'	1:BA:1347:G:H8	1.66	0.60
1:BA:1570:A:H2'	1:BA:1571:A:C8	2.37	0.60
2:BB:29:A:H2'	2:BB:30:C:O4'	2.00	0.60
4:BE:48:GLN:HE22	4:BE:78:LEU:HD13	1.64	0.60
7:BH:152:ARG:CA	7:BH:154:PRO:HD3	2.31	0.60
12:BP:104:PHE:O	12:BP:105:GLU:HB3	1.99	0.60
19:BT:15:GLU:CD	19:BT:15:GLU:H	2.06	0.60
31:CA:49:U:O2'	31:CA:50:A:H2'	2.01	0.60
31:CA:376:G:OP1	46:CS:5:ARG:HB2	2.01	0.60
31:CA:601:C:H2'	31:CA:602:A:C8	2.32	0.60
31:CA:974:A:P	44:CQ:41:ARG:HH12	2.24	0.60
31:CA:1025:U:O2'	31:CA:1026:G:C5'	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:21:ARG:CB	32:CE:39:ILE:HA	2.30	0.60
34:CG:98:GLU:OE1	34:CG:194:LEU:HD23	2.00	0.60
34:CG:133:VAL:HG11	34:CG:138:TYR:HD1	1.66	0.60
51:CX:15:ARG:HH11	51:CX:15:ARG:HG3	1.66	0.60
53:CD:53:G:H1	53:CD:63:C:N4	1.99	0.60
31:DA:619:U:O2	34:DG:135:LEU:HD22	2.01	0.60
31:DA:992:U:H3	31:DA:1044:A:N6	1.93	0.60
31:DA:1147:C:O2	39:DL:16:ARG:NE	2.34	0.60
33:DF:155:GLY:O	33:DF:196:LEU:HD22	2.01	0.60
37:DJ:23:VAL:CG1	37:DJ:43:PHE:HE2	2.14	0.60
40:DM:48:THR:HA	40:DM:62:HIS:CB	2.30	0.60
42:DO:8:ASN:HD22	47:DT:34:LYS:CE	2.14	0.60
50:DW:22:ARG:O	50:DW:26:ASN:ND2	2.34	0.60
53:DD:37:U:O4	53:DD:38:A:N6	2.33	0.60
1:AA:598:G:H1'	11:AO:12:ALA:HB2	1.82	0.60
1:AA:600:G:N2	1:AA:605:C:O3'	2.35	0.60
1:AA:909:A:H2'	1:AA:912:C:H5	1.64	0.60
1:AA:1210:A:H8	1:AA:1210:A:C5'	2.11	0.60
1:AA:1728:G:N2	1:AA:1730:U:OP2	2.33	0.60
1:AA:2420:C:OP1	30:A8:34:TRP:HB3	2.00	0.60
5:AF:178:PRO:HB3	5:AF:198:ALA:CB	2.31	0.60
11:AO:46:LYS:O	11:AO:47:ASP:HB3	2.00	0.60
19:AT:44:GLU:HG3	19:AT:49:VAL:O	2.00	0.60
1:BA:370:G:H4'	1:BA:371:A:OP2	2.01	0.60
1:BA:907:U:O2'	12:BP:101:ARG:NH2	2.34	0.60
1:BA:1342:A:C8	1:BA:1345:C:C4	2.89	0.60
1:BA:2415:G:H4'	11:BO:66:GLY:HA3	1.81	0.60
1:BA:2439:A:C8	1:BA:2439:A:C5'	2.84	0.60
3:BD:35:LYS:HD3	3:BD:63:ARG:C	2.25	0.60
5:BF:50:SER:HA	5:BF:92:PRO:O	2.01	0.60
8:BK:97:ILE:O	8:BK:100:ALA:HB3	2.00	0.60
15:BR:64:ARG:CB	15:BR:73:GLU:HG2	2.32	0.60
31:CA:355:C:C4	31:CA:356:A:N7	2.69	0.60
31:CA:1277:C:O2'	31:CA:1279:A:H1'	2.00	0.60
31:CA:1376:U:H2'	31:CA:1377:A:C8	2.37	0.60
34:CG:9:CYS:SG	34:CG:31:CYS:O	2.60	0.60
37:CJ:111:ARG:NH1	37:CJ:113:GLU:OE2	2.34	0.60
50:CW:63:ILE:HG22	50:CW:77:ALA:HB1	1.83	0.60
31:DA:77:C:C3'	31:DA:78:G:H5''	2.31	0.60
31:DA:680:C:H42	31:DA:710:G:H1	1.48	0.60
31:DA:957:U:O2'	31:DA:959:A:N7	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DE:73:THR:HG23	32:DE:170:GLU:OE2	2.01	0.60
33:DF:18:TRP:HE1	44:DQ:55:GLY:N	1.99	0.60
44:DQ:12:ARG:C	44:DQ:14:PRO:HD3	2.25	0.60
1:AA:53:A:H2'	1:AA:54:G:O4'	2.01	0.60
1:AA:507:A:C5'	1:AA:508:G:H5'	2.32	0.60
1:AA:654(M):C:H2'	1:AA:654(N):G:N7	2.16	0.60
1:AA:873:G:N2	1:AA:904:C:N3	2.49	0.60
1:AA:1296:G:O2'	1:AA:1297:C:H5'	2.02	0.60
1:AA:1992:G:H5'	1:AA:1994:C:H41	1.66	0.60
1:AA:2422:A:N7	30:A8:31:HIS:HE1	2.00	0.60
1:AA:2688:U:H1'	1:AA:2721:A:H61	1.67	0.60
1:AA:2756:U:H1'	1:AA:2757:A:H5''	1.82	0.60
3:AD:182:LEU:O	3:AD:271:ILE:CG1	2.48	0.60
12:AP:75:THR:HG22	12:AP:90:VAL:H	1.66	0.60
14:AQ:106:ARG:HB2	14:AQ:106:ARG:CZ	2.31	0.60
15:AR:36:GLU:HG3	15:AR:41:ARG:CD	2.18	0.60
16:A1:92:ARG:HD3	16:A1:94:ASN:HB3	1.83	0.60
1:BA:2197:U:H1'	1:BA:2198:A:C8	2.37	0.60
1:BA:2555:U:O2	52:DB:85:C:C5	2.54	0.60
4:BE:51:PHE:C	4:BE:74:PRO:HB2	2.25	0.60
4:BE:60:ASN:O	4:BE:62:PRO:CD	2.49	0.60
6:BG:7:LEU:O	6:BG:7:LEU:HD23	2.00	0.60
9:BM:15:LEU:HB2	9:BM:134:ARG:HG2	1.84	0.60
19:BT:63:LYS:HE3	19:BT:63:LYS:N	2.16	0.60
23:BZ:91:LYS:O	23:BZ:93:GLU:HB2	2.02	0.60
31:CA:872:A:C4	31:CA:874:G:N7	2.69	0.60
31:CA:1003:G:H2'	31:CA:1004:A:C5'	2.31	0.60
35:CH:33:VAL:HB	35:CH:112:LEU:HD12	1.81	0.60
40:CM:80:LYS:HA	40:CM:80:LYS:NZ	2.17	0.60
47:CT:76:LEU:HD11	47:CT:78:GLU:H	1.65	0.60
49:CV:9:VAL:O	49:CV:9:VAL:HG12	2.00	0.60
50:CW:75:ASN:OD1	50:CW:75:ASN:N	2.35	0.60
52:CB:19:G:H1'	52:CB:20:U:OP1	2.01	0.60
31:DA:812:C:C1'	31:DA:813:U:OP2	2.47	0.60
33:DF:58:GLU:O	33:DF:59:ARG:HG3	2.01	0.60
34:DG:8:VAL:HG12	34:DG:21:LEU:HD13	1.84	0.60
49:DV:31:ILE:HG21	49:DV:49:ILE:HG23	1.84	0.60
49:DV:67:VAL:O	49:DV:69:HIS:N	2.34	0.60
52:DB:37:G:H1	54:D1:19:U:H3	1.49	0.60
1:AA:481:G:H1'	1:AA:507:A:N1	2.16	0.60
1:AA:1174:A:H3'	1:AA:1175:U:H5''	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:58:ARG:O	4:AE:60:ASN:ND2	2.35	0.60
4:AE:182:LEU:HD12	4:AE:183:LEU:N	2.17	0.60
6:AG:73:ALA:HB2	6:AG:82:LEU:CD2	2.09	0.60
6:AG:110:ALA:HA	6:AG:140:ILE:O	2.01	0.60
8:AK:11:ASN:O	8:AK:12:LEU:HD22	2.01	0.60
14:AQ:26:LEU:HD23	14:AQ:87:PHE:CD1	2.36	0.60
1:BA:550:G:O2'	1:BA:1220:A:N3	2.32	0.60
1:BA:587:C:O2	11:BO:33:ARG:NH1	2.35	0.60
1:BA:626:U:O2	11:BO:105:LEU:CB	2.50	0.60
1:BA:946:G:C2'	1:BA:947:G:O5'	2.50	0.60
1:BA:1495:A:O2'	1:BA:1496:A:H5'	2.01	0.60
1:BA:1763:G:OP1	1:BA:1763:G:C4'	2.49	0.60
1:BA:2689:U:C4'	1:BA:2690:C:H5'	2.31	0.60
1:BA:2721:A:H1'	1:BA:2873:A:O2'	2.02	0.60
2:BB:15:A:H3'	2:BB:16:G:H5'	1.83	0.60
4:BE:36:ARG:HH21	4:BE:88:GLY:CA	2.12	0.60
11:BO:57:THR:O	11:BO:59:LEU:N	2.34	0.60
12:BP:32:TYR:CZ	12:BP:111:GLU:CB	2.74	0.60
19:BT:50:LYS:HG2	19:BT:84:ALA:HB2	1.84	0.60
19:BT:63:LYS:O	19:BT:63:LYS:HD2	2.01	0.60
31:CA:814:A:N7	31:CA:816:A:C4	2.69	0.60
32:CE:212:GLN:CG	32:CE:235:SER:HB2	2.32	0.60
33:CF:60:ALA:N	33:CF:63:ASN:OD1	2.33	0.60
33:CF:131:ARG:HH11	33:CF:131:ARG:HG3	1.67	0.60
38:CK:87:SER:CB	38:CK:93:VAL:HB	2.28	0.60
39:CL:114:TYR:CD2	39:CL:114:TYR:N	2.68	0.60
31:DA:973:G:N3	40:DM:55:LYS:HE2	2.16	0.60
31:DA:1002:G:H1	31:DA:1038:C:N4	1.99	0.60
32:DE:98:LEU:O	32:DE:101:MET:HG2	2.02	0.60
33:DF:134:ILE:HG22	33:DF:168:ALA:HB3	1.84	0.60
36:DI:100:ASN:HB2	48:DU:23:LYS:CD	2.31	0.60
49:DV:28:LYS:HE3	49:DV:29:ARG:H	1.65	0.60
49:DV:48:THR:HG22	49:DV:61:TYR:HD1	1.66	0.60
1:AA:442:G:O4'	5:AF:46:ARG:HD3	2.01	0.60
1:AA:643:A:N1	1:AA:2369:A:O2'	2.32	0.60
1:AA:1061:U:H4'	1:AA:1070:A:C1'	2.32	0.60
1:AA:1204:A:N1	1:AA:1241:A:C2	2.70	0.60
1:AA:1533:C:N3	1:AA:1538:G:N2	2.41	0.60
1:AA:1591:G:H2'	1:AA:1592:C:H6	1.65	0.60
1:AA:2298:A:N6	1:AA:2318:G:H1'	2.16	0.60
1:AA:2383:G:C2'	1:AA:2384:G:H5'	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2869:G:H2'	1:AA:2870:C:H6	1.65	0.60
3:AD:25:THR:HG22	3:AD:26:LYS:N	2.16	0.60
4:AE:137:HIS:HB3	4:AE:138:PRO:HD2	1.81	0.60
7:AH:3:ARG:HA	7:AH:3:ARG:HE	1.66	0.60
7:AH:166:GLY:C	7:AH:167:GLU:HG3	2.27	0.60
12:AP:12:GLN:HG2	12:AP:73:PRO:HD2	1.83	0.60
16:A1:49:HIS:HA	16:A1:52:ARG:HG2	1.83	0.60
16:A1:60:LEU:HD22	16:A1:60:LEU:O	2.01	0.60
29:A7:48:LYS:O	29:A7:49:ARG:CB	2.49	0.60
1:BA:315:G:H2'	1:BA:316:C:C6	2.37	0.60
1:BA:389:G:C2	11:BO:71:VAL:HG12	2.35	0.60
1:BA:1257:C:H4'	5:BF:83:PHE:HD2	1.63	0.60
1:BA:2688:U:H1'	1:BA:2721:A:N6	2.16	0.60
2:BB:111:U:H2'	2:BB:112:G:C8	2.37	0.60
8:BK:5:LEU:HD11	8:BK:19:VAL:CG1	2.32	0.60
12:BP:35:VAL:CG2	12:BP:130:LYS:HB3	2.31	0.60
13:B0:84:ALA:HB3	13:B0:85:PRO:HD3	1.83	0.60
17:B2:49:THR:O	17:B2:51:VAL:N	2.34	0.60
23:BZ:80:LEU:HD12	23:BZ:82:LEU:HD21	1.84	0.60
35:CH:57:LYS:O	35:CH:61:TYR:HD2	1.84	0.60
40:CM:40:LEU:HB2	40:CM:69:ASN:CB	2.32	0.60
44:CQ:44:LEU:C	44:CQ:44:LEU:HD12	2.27	0.60
53:CC:18:C:O2'	53:CC:19:G:H5''	2.02	0.60
31:DA:652:U:C4	31:DA:752:G:N3	2.69	0.60
31:DA:1128:C:N4	31:DA:1139:G:C2	2.69	0.60
31:DA:1138:G:N1	31:DA:1140:C:O2	2.35	0.60
38:DK:103:VAL:HG21	38:DK:110:ALA:HB2	1.83	0.60
52:DB:14:A:N6	52:DB:21:A:N6	2.48	0.60
1:AA:329:G:H4'	1:AA:330:A:OP2	2.00	0.60
1:AA:2165:G:H2'	1:AA:2165:G:N3	2.17	0.60
1:AA:2302:G:C6	1:AA:2315:G:C6	2.89	0.60
1:AA:2309:A:H2'	1:AA:2310:A:C1'	2.32	0.60
1:AA:2331:G:C4'	22:A3:42:GLY:HA3	2.31	0.60
1:AA:2818:G:O2'	1:AA:2837:G:H5'	2.02	0.60
18:AS:24:ILE:CG2	18:AS:36:LEU:HD21	2.31	0.60
26:A4:6:HIS:HD1	26:A4:7:PRO:HD2	1.67	0.60
1:BA:362:U:H6	1:BA:362:U:H3'	1.66	0.60
1:BA:634:C:H2'	1:BA:635:C:H6	1.65	0.60
1:BA:887:A:H3'	1:BA:888:C:C5'	2.32	0.60
1:BA:1607:C:H5''	1:BA:1608:A:H5'	1.83	0.60
1:BA:2320:A:N6	1:BA:2333:A:H2'	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:10:PRO:HA	5:BF:127:GLU:HB3	1.82	0.60
8:BK:82:ARG:HB3	8:BK:89:TYR:HD2	1.65	0.60
8:BK:120:ILE:HG22	8:BK:122:GLU:H	1.67	0.60
11:BO:85:LEU:HA	11:BO:88:LEU:CB	2.31	0.60
19:BT:53:LYS:HB3	19:BT:82:GLN:HB3	1.84	0.60
31:CA:383:A:H8	31:CA:383:A:O5'	1.85	0.60
31:CA:658:G:H2'	31:CA:659:U:H6	1.67	0.60
31:CA:668:G:O2'	45:CR:46:HIS:HB3	2.02	0.60
31:CA:736:C:OP1	48:CU:68:LYS:HD2	2.02	0.60
31:CA:1125:U:H3	40:CM:5:ARG:HH11	1.48	0.60
31:CA:1287:A:H2'	31:CA:1288:A:C8	2.37	0.60
39:CL:22:GLY:HA3	39:CL:60:ASP:CG	2.26	0.60
39:CL:29:ASN:OD1	39:CL:64:THR:HA	2.02	0.60
40:CM:49:VAL:HG21	44:CQ:41:ARG:HB2	1.82	0.60
53:CC:48:U:OP2	53:CC:48:U:H6	1.85	0.60
53:CD:22:A:H2'	53:CD:47:G:C6	2.36	0.60
31:DA:194:C:H2'	31:DA:195:A:H5''	1.84	0.60
31:DA:351:G:H4'	31:DA:352:C:OP1	2.02	0.60
31:DA:1129:C:N4	31:DA:1141:C:H41	2.00	0.60
31:DA:1306:A:H61	31:DA:1331:G:H1'	1.66	0.60
39:DL:75:ASP:O	39:DL:78:LYS:HB3	2.02	0.60
46:DS:36:ILE:O	46:DS:36:ILE:HG13	2.01	0.60
1:AA:654(M):C:C2'	1:AA:654(N):G:C8	2.83	0.60
1:AA:1294:U:O2'	13:A0:23:ASN:ND2	2.35	0.60
1:AA:1578:U:O2	1:AA:1578:U:H2'	2.01	0.60
1:AA:1963:U:OP1	1:AA:1963:U:C6	2.54	0.60
1:AA:2246:G:H2'	1:AA:2247:A:C8	2.36	0.60
6:AG:82:LEU:C	6:AG:82:LEU:CD2	2.75	0.60
7:AH:23:ARG:NH1	7:AH:34:GLU:OE2	2.35	0.60
9:AM:112:LEU:O	9:AM:114:ARG:O	2.20	0.60
17:A2:34:GLU:O	17:A2:36:PRO:HD3	2.02	0.60
18:AS:86:LEU:C	18:AS:86:LEU:HD12	2.26	0.60
21:AV:6:LYS:CA	21:AV:60:GLU:HB2	2.27	0.60
21:AV:7:ALA:HB2	21:AV:59:LEU:CD1	2.32	0.60
1:BA:78:A:H2'	1:BA:79:G:C8	2.37	0.60
1:BA:1332:G:N2	1:BA:1610:A:C8	2.70	0.60
1:BA:2032:G:O2'	4:BE:145:LYS:HE3	2.02	0.60
1:BA:2050:C:H1'	4:BE:156:MET:CE	2.32	0.60
1:BA:2303:G:O2'	1:BA:2304:G:H5'	2.01	0.60
2:BB:39:A:H61	26:B4:1:MET:HB3	1.67	0.60
3:BD:70:TRP:HZ3	3:BD:146:GLU:OE2	1.85	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BP:35:VAL:HG21	12:BP:130:LYS:HE2	1.83	0.60
17:B2:76:LYS:CG	17:B2:80:GLN:CG	2.76	0.60
17:B2:80:GLN:O	17:B2:81:TYR:CB	2.50	0.60
24:BW:17:SER:OG	24:BW:21:LEU:HD12	2.01	0.60
31:CA:113:G:H2'	31:CA:114:U:H6	1.66	0.60
31:CA:1060:C:H5'	44:CQ:45:ARG:NH2	2.16	0.60
31:CA:1176:A:H2'	31:CA:1177:G:H5'	1.84	0.60
31:CA:1194:U:H2'	31:CA:1195:C:H6	1.67	0.60
32:CE:106:LYS:O	32:CE:110:GLN:HG3	2.01	0.60
37:CJ:75:VAL:O	37:CJ:75:VAL:HG23	2.01	0.60
43:CP:10:PRO:HB2	43:CP:18:ALA:HB1	1.84	0.60
46:CS:8:ARG:HB3	46:CS:28:ARG:NH1	2.16	0.60
53:CD:64:G:H2'	53:CD:65:G:C8	2.36	0.60
31:DA:662:G:O2'	31:DA:836:G:OP1	2.20	0.60
31:DA:878:G:C5'	38:DK:89:PRO:HG2	2.31	0.60
31:DA:949:A:C2	31:DA:1233:G:N3	2.70	0.60
31:DA:1161:C:O2'	31:DA:1162:C:H5'	2.01	0.60
31:DA:1356:G:N2	31:DA:1367:C:O2	2.35	0.60
31:DA:1499:A:H1'	31:DA:1520:G:H5'	1.84	0.60
48:DU:29:PHE:N	48:DU:29:PHE:CD2	2.70	0.60
49:DV:28:LYS:HE3	49:DV:29:ARG:N	2.17	0.60
1:AA:252:G:O2'	1:AA:253:C:H5'	2.02	0.60
1:AA:270(M):U:H1'	1:AA:270(N):G:C6	2.36	0.60
1:AA:550:G:O2'	1:AA:1220:A:N3	2.29	0.60
1:AA:639:U:H2'	1:AA:640:C:C6	2.36	0.60
1:AA:1021:A:H62	1:AA:1141:U:H3	1.50	0.60
7:AH:4:ILE:HG13	7:AH:6:ARG:HB2	1.84	0.60
9:AM:128:HIS:HD2	9:AM:129:PRO:C	2.10	0.60
11:AO:49:ARG:HD2	30:A8:58:ILE:HG21	1.84	0.60
12:AP:33:GLY:HA2	12:AP:105:GLU:HA	1.84	0.60
12:AP:66:ILE:O	12:AP:104:PHE:N	2.35	0.60
15:AR:124:ASP:O	15:AR:128:GLU:N	2.34	0.60
1:BA:534:U:O2'	16:B1:49:HIS:CD2	2.54	0.60
1:BA:607:U:N3	1:BA:621:A:C2	2.69	0.60
1:BA:996:A:H4'	16:B1:92:ARG:CZ	2.32	0.60
1:BA:1268:A:H2'	1:BA:1269:A:O4'	2.02	0.60
1:BA:1412:A:H2'	1:BA:1413:G:H8	1.66	0.60
1:BA:1429:G:H2'	1:BA:1430:C:C6	2.37	0.60
1:BA:2712:U:H1'	1:BA:2712(A):A:C8	2.36	0.60
1:BA:2873:A:N3	1:BA:2873:A:H2'	2.17	0.60
5:BF:28:ILE:HA	5:BF:112:MET:HE3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BG:110:ALA:HA	6:BG:140:ILE:O	2.02	0.60
8:BK:123:LEU:HD13	8:BK:143:SER:HB3	1.84	0.60
11:BO:71:VAL:HG13	11:BO:72:PRO:CG	2.30	0.60
14:BQ:14:VAL:HG21	14:BQ:89:ARG:HD3	1.82	0.60
17:B2:38:LEU:HD23	17:B2:40:LEU:O	2.02	0.60
17:B2:82:ARG:CG	17:B2:82:ARG:NH1	2.59	0.60
17:B2:85:LYS:C	17:B2:87:HIS:H	2.10	0.60
26:B4:63:TYR:CE2	49:DV:41:VAL:HG13	2.37	0.60
28:B6:14:THR:OG1	28:B6:19:ARG:HG2	2.02	0.60
28:B6:31:PRO:HB2	28:B6:33:LYS:HB2	1.84	0.60
31:CA:510:A:OP2	34:CG:49:ARG:NH2	2.31	0.60
31:CA:626:U:H2'	31:CA:627:G:C8	2.37	0.60
31:CA:713:G:H2'	31:CA:714:G:C8	2.37	0.60
31:CA:728:A:C6	45:CR:54:ARG:HD2	2.36	0.60
31:CA:976:G:OP1	44:CQ:32:SER:N	2.34	0.60
32:CE:96:ARG:HD2	32:CE:96:ARG:N	2.08	0.60
34:CG:13:ARG:HD3	34:CG:38:TYR:O	2.01	0.60
34:CG:187:ARG:HH22	34:CG:193:ASP:CG	2.09	0.60
46:CS:34:GLU:HG2	46:CS:35:LYS:N	2.17	0.60
46:CS:58:TYR:C	46:CS:58:TYR:CD1	2.79	0.60
31:DA:266:G:O6	31:DA:270:A:N7	2.35	0.60
31:DA:1027:C:O2'	31:DA:1028:C:O5'	2.18	0.60
31:DA:1451:A:OP2	31:DA:1452:C:N4	2.35	0.60
32:DE:111:ARG:HH11	32:DE:111:ARG:CG	1.90	0.60
48:DU:74:ARG:HD3	48:DU:81:PHE:CD2	2.36	0.60
53:DD:71:G:C2'	53:DD:72:C:H5'	2.32	0.60
1:AA:2059:A:O2'	5:AF:69:HIS:HD2	1.85	0.59
1:AA:2131:G:H5'	1:AA:2132:U:OP1	2.01	0.59
4:AE:81:ILE:HG21	4:AE:84:PHE:HB2	1.82	0.59
7:AH:4:ILE:HG13	7:AH:6:ARG:CZ	2.31	0.59
11:AO:16:ARG:HG3	11:AO:16:ARG:NH1	2.15	0.59
11:AO:71:VAL:N	11:AO:72:PRO:CD	2.65	0.59
12:AP:18:LYS:O	12:AP:19:GLY:C	2.45	0.59
14:AQ:85:VAL:HG23	14:AQ:112:PHE:CE1	2.37	0.59
26:A4:61:ARG:HA	26:A4:61:ARG:NE	2.15	0.59
30:A8:33:ASN:O	30:A8:34:TRP:C	2.44	0.59
1:BA:535:C:O2'	1:BA:536:A:H5'	2.01	0.59
1:BA:959:A:N6	1:BA:960:A:N1	2.50	0.59
1:BA:1288:U:C2	1:BA:1327:C:O2	2.55	0.59
1:BA:1323:U:OP1	18:BS:98:LYS:NZ	2.35	0.59
1:BA:1449(A):G:H2'	1:BA:1450:C:H6	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2074:U:H2'	1:BA:2075:U:C6	2.36	0.59
1:BA:2766:G:H2'	1:BA:2766:G:N3	2.16	0.59
1:BA:2847:U:C2'	1:BA:2848:G:H5'	2.32	0.59
4:BE:52:LEU:HD13	4:BE:53:PRO:N	2.16	0.59
4:BE:55:ASN:HB2	4:BE:73:GLU:O	2.01	0.59
4:BE:81:ILE:HG21	4:BE:84:PHE:HB3	1.82	0.59
11:BO:68:GLN:CG	30:B8:12:LYS:HG2	2.32	0.59
12:BP:31:ASP:O	12:BP:134:ARG:CB	2.49	0.59
15:BR:26:ASP:HB3	15:BR:92:GLY:H	1.66	0.59
20:BU:35:TYR:CD1	20:BU:69:ALA:HB3	2.37	0.59
31:CA:96:G:C6	31:CA:97:U:C2	2.89	0.59
31:CA:129(A):G:N1	31:CA:188:U:O2'	2.32	0.59
31:CA:1240:U:P	37:CJ:116:ALA:HB2	2.42	0.59
32:CE:17:PHE:HD2	32:CE:44:LEU:HD11	1.65	0.59
32:CE:180:LEU:O	32:CE:181:PHE:HB2	2.00	0.59
32:CE:204:ASN:HD22	32:CE:204:ASN:C	2.09	0.59
32:CE:236:TYR:HA	32:CE:239:VAL:CG2	2.32	0.59
38:CK:58:TYR:O	38:CK:59:LEU:HD23	2.02	0.59
43:CP:11:ARG:HG2	43:CP:12:ASN:N	2.17	0.59
31:DA:689:C:C2'	31:DA:690:G:H5'	2.31	0.59
53:DC:19:G:N2	53:DC:58:A:H2'	2.17	0.59
53:DD:13:C:HO2'	53:DD:14:A:P	2.25	0.59
1:AA:879:G:H8	1:AA:879:G:OP2	1.84	0.59
1:AA:2098:U:H2'	1:AA:2099:U:O4'	2.02	0.59
1:AA:2311:A:C2	6:AG:80:PHE:CD1	2.90	0.59
1:AA:2319:G:N7	14:AQ:3:ARG:HB3	2.16	0.59
11:AO:79:ARG:HB2	11:AO:110:TYR:HD1	1.68	0.59
12:AP:65:PHE:C	12:AP:66:ILE:CG2	2.67	0.59
13:A0:4:LEU:HD12	13:A0:4:LEU:O	2.03	0.59
15:AR:108:ARG:HA	15:AR:111:ARG:NE	2.16	0.59
15:AR:112:ARG:HA	15:AR:115:ARG:HD2	1.83	0.59
19:AT:49:VAL:HG12	19:AT:50:LYS:O	2.02	0.59
21:AV:7:ALA:HB3	21:AV:61:LEU:CB	2.32	0.59
1:BA:511:U:H5''	1:BA:512:G:OP2	2.00	0.59
1:BA:1645:G:H5''	1:BA:1646:C:H5'	1.84	0.59
1:BA:2134:A:O2'	1:BA:2159:G:N2	2.35	0.59
1:BA:2287:A:N1	1:BA:2346:A:C2	2.70	0.59
4:BE:96:PHE:O	4:BE:175:VAL:HG11	2.02	0.59
5:BF:192:LEU:CD2	5:BF:194:MET:HE2	2.32	0.59
10:BN:7:TYR:CE1	10:BN:20:MET:HB2	2.37	0.59
26:B4:16:CYS:HB3	26:B4:19:GLY:HA2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B4:34:GLU:O	43:DP:57:ARG:NH1	2.33	0.59
26:B4:55:ARG:HB2	49:DV:66:MET:HE1	1.84	0.59
31:CA:397:A:H5'	31:CA:398:C:OP1	2.02	0.59
31:CA:502:G:OP1	42:CO:115:SER:HB3	2.02	0.59
31:CA:727:G:N2	31:CA:730:G:OP2	2.35	0.59
31:CA:1126:U:C5	31:CA:1127:G:C4	2.90	0.59
39:CL:25:LYS:HG3	39:CL:25:LYS:O	2.02	0.59
31:DA:57:G:C5	31:DA:58:C:C4	2.90	0.59
31:DA:433:C:O2'	31:DA:434:U:H5'	2.02	0.59
32:DE:67:THR:HA	32:DE:90:MET:HE1	1.83	0.59
1:AA:1203:G:H5'	11:AO:3:LEU:HD13	1.84	0.59
1:AA:2118:U:H5''	1:AA:2119:A:OP1	2.01	0.59
1:AA:2733:A:C3'	1:AA:2734:A:H5''	2.31	0.59
3:AD:71:ASP:OD2	3:AD:103:ARG:NH2	2.36	0.59
8:AK:2:LYS:HB2	8:AK:39:ALA:CB	2.32	0.59
10:AN:120:GLU:OE2	10:AN:122:LEU:HD21	2.02	0.59
11:AO:20:GLY:N	11:AO:27:HIS:O	2.35	0.59
17:A2:34:GLU:HA	17:A2:57:VAL:O	2.02	0.59
1:BA:128:C:H2'	1:BA:129:C:C6	2.37	0.59
1:BA:453:C:H4'	1:BA:472:A:N6	2.18	0.59
1:BA:1057:A:H2	1:BA:1081:U:N3	2.00	0.59
1:BA:2185:C:H2'	1:BA:2186:G:H8	1.66	0.59
1:BA:2309:A:C5	1:BA:2310:A:C2	2.90	0.59
1:BA:2674:G:H4'	10:BN:30:ALA:HB2	1.85	0.59
2:BB:89:G:OP2	2:BB:89:G:C8	2.55	0.59
3:BD:242:ARG:HD2	3:BD:242:ARG:H	1.65	0.59
4:BE:60:ASN:O	4:BE:62:PRO:HD3	2.01	0.59
7:BH:48:GLY:O	7:BH:49:VAL:HG13	2.02	0.59
7:BH:169:VAL:HG13	7:BH:170:ARG:N	2.17	0.59
10:BN:4:PRO:O	10:BN:5:GLN:HB2	2.02	0.59
11:BO:109:GLY:O	11:BO:110:TYR:CG	2.56	0.59
14:BQ:88:ASP:O	14:BQ:89:ARG:CB	2.49	0.59
21:BV:158:PRO:HB2	21:BV:159:PRO:HD2	1.83	0.59
31:CA:149:A:C2	31:CA:150:C:N3	2.70	0.59
31:CA:186(C):G:C6	31:CA:191(E):G:N1	2.71	0.59
31:CA:443:C:H2'	31:CA:444:C:C6	2.36	0.59
31:CA:1004:A:C2	31:CA:1024:G:H2'	2.38	0.59
31:CA:1132:C:H42	31:CA:1143:G:N2	1.99	0.59
32:CE:187:LEU:HA	32:CE:201:ILE:HB	1.84	0.59
35:CH:110:LEU:CD1	35:CH:118:ILE:HD13	2.31	0.59
39:CL:77:ILE:O	39:CL:81:ILE:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:652:U:H1'	31:DA:653:A:C2	2.35	0.59
31:DA:730:G:C5	31:DA:731:G:H1'	2.37	0.59
31:DA:1305:G:O2'	31:DA:1306:A:H8	1.80	0.59
31:DA:1374:A:H2'	31:DA:1375:A:C5'	2.32	0.59
32:DE:165:VAL:HG23	32:DE:166:ASP:H	1.66	0.59
36:DI:100:ASN:HB2	48:DU:23:LYS:HD2	1.84	0.59
40:DM:4:ILE:HA	40:DM:100:THR:HG22	1.82	0.59
1:AA:299:A:C2	1:AA:322:A:C4	2.89	0.59
1:AA:1102:C:H2'	1:AA:1103:A:C8	2.38	0.59
1:AA:1210:A:H5'	1:AA:1210:A:C8	2.27	0.59
1:AA:1262:A:N3	27:A5:10:LYS:NZ	2.34	0.59
1:AA:2849:U:H4'	1:AA:2868:A:C2	2.37	0.59
10:AN:4:PRO:O	10:AN:5:GLN:CB	2.50	0.59
15:AR:107:ASP:O	15:AR:110:ILE:HG23	2.02	0.59
21:AV:27:VAL:CG1	21:AV:87:ASP:HB3	2.33	0.59
1:BA:330:A:H2	1:BA:1210:A:C2'	2.16	0.59
1:BA:1142:U:H2'	1:BA:1142:U:O2	2.03	0.59
1:BA:2527:C:C5	1:BA:2528:U:C5	2.89	0.59
2:BB:83:G:H5''	25:BX:52:HIS:CE1	2.37	0.59
5:BF:18:ARG:HG2	5:BF:19:GLU:H	1.65	0.59
14:BQ:110:LEU:HD23	14:BQ:112:PHE:CE2	2.37	0.59
15:BR:136:GLN:C	15:BR:137:LYS:HD2	2.28	0.59
23:BZ:85:LEU:O	23:BZ:85:LEU:HD12	2.01	0.59
27:B5:3:LYS:HG3	27:B5:4:HIS:N	2.17	0.59
30:B8:61:LEU:O	30:B8:62:LEU:O	2.21	0.59
31:CA:760:G:H2'	31:CA:761:G:H5'	1.84	0.59
31:CA:856:C:C2'	31:CA:857:C:H5'	2.33	0.59
31:CA:943:U:H1'	39:CL:124:GLN:HE22	1.67	0.59
38:CK:121:ASP:HB2	38:CK:125:ARG:NH2	2.17	0.59
41:CN:113:PRO:C	41:CN:114:VAL:HG12	2.27	0.59
43:CP:11:ARG:HG2	43:CP:12:ASN:H	1.67	0.59
50:CW:72:LEU:HD23	50:CW:72:LEU:C	2.28	0.59
31:DA:438:G:O2'	31:DA:494:U:O4	2.08	0.59
31:DA:1239:A:H4'	31:DA:1240:U:C5'	2.33	0.59
31:DA:1277:C:O2'	31:DA:1279:A:C8	2.50	0.59
32:DE:50:GLU:O	32:DE:54:THR:OG1	2.06	0.59
1:AA:271(B):G:H4'	1:AA:271(C):U:C5'	2.33	0.59
1:AA:475:U:C5	1:AA:481:G:O6	2.56	0.59
1:AA:2024:G:H2'	1:AA:2025:C:H6	1.68	0.59
1:AA:2469:A:C8	1:AA:2470:G:H1'	2.37	0.59
3:AD:231:HIS:ND1	3:AD:232:PRO:HD2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:111:HIS:CD2	18:AS:112:GLY:H	2.19	0.59
28:A6:25:LYS:NZ	28:A6:27:LYS:HE2	2.16	0.59
28:A6:43:CYS:HB3	28:A6:44:ARG:HH11	1.68	0.59
1:BA:244:A:C2	1:BA:255:A:C4	2.90	0.59
1:BA:1025:G:OP1	1:BA:1025:G:H8	1.85	0.59
1:BA:2165:G:H2'	1:BA:2165:G:N3	2.17	0.59
4:BE:56:PRO:CB	4:BE:57:LYS:CD	2.80	0.59
9:BM:137:LYS:HA	9:BM:137:LYS:HZ3	1.68	0.59
12:BP:66:ILE:CA	12:BP:104:PHE:HA	2.32	0.59
17:B2:76:LYS:N	17:B2:80:GLN:CB	2.65	0.59
30:B8:25:MET:O	30:B8:48:PHE:CE1	2.55	0.59
31:CA:438:G:H2'	31:CA:494:U:O4	2.02	0.59
31:CA:701:C:O2	31:CA:703:G:N1	2.35	0.59
31:CA:1305:G:N2	31:CA:1331:G:C2'	2.59	0.59
34:CG:209:ARG:HA	34:CG:209:ARG:NE	2.17	0.59
39:CL:114:TYR:N	39:CL:114:TYR:HD2	2.00	0.59
42:CO:21:VAL:HG11	42:CO:24:LEU:CD1	2.32	0.59
31:DA:1026:G:C6	31:DA:1036:G:C2	2.90	0.59
31:DA:1132:C:H2'	31:DA:1133:G:H8	1.68	0.59
34:DG:196:LEU:HB3	34:DG:197:PRO:HD2	1.85	0.59
37:DJ:94:ARG:O	37:DJ:97:GLN:HB3	2.02	0.59
40:DM:23:ILE:HA	40:DM:26:ALA:HB3	1.85	0.59
52:DB:27:G:H5'	52:DB:28:C:OP2	2.03	0.59
1:AA:654(M):C:H5''	1:AA:654(N):G:N7	2.17	0.59
3:AD:142:VAL:HG23	3:AD:193:VAL:HA	1.83	0.59
4:AE:97:LYS:N	4:AE:100:GLU:OE1	2.31	0.59
5:AF:178:PRO:HB3	5:AF:198:ALA:HB1	1.83	0.59
8:AK:130:TYR:N	8:AK:136:VAL:O	2.35	0.59
12:AP:14:ARG:HG2	12:AP:41:TRP:CH2	2.37	0.59
13:A0:38:VAL:HB	13:A0:39:PRO:HD3	1.84	0.59
30:A8:52:LYS:H	30:A8:53:PRO:HD2	1.66	0.59
1:BA:729:G:OP2	3:BD:13:ARG:NH1	2.35	0.59
1:BA:747:U:O2	1:BA:2014:A:H1'	2.02	0.59
1:BA:1138:G:N2	9:BM:106:MET:HE3	2.12	0.59
1:BA:1190:G:H2'	1:BA:1191:G:H8	1.68	0.59
1:BA:1226:G:OP1	17:B2:85:LYS:CB	2.48	0.59
1:BA:1864:U:C2'	1:BA:1869:G:H5''	2.33	0.59
1:BA:1926:U:H2'	1:BA:1928:A:OP2	2.02	0.59
1:BA:2162:G:O2'	1:BA:2173:A:OP2	2.21	0.59
1:BA:2191:G:O2'	1:BA:2192:G:P	2.60	0.59
1:BA:2252:G:H2'	1:BA:2253:G:O4'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2415:G:H4'	11:BO:66:GLY:CA	2.32	0.59
1:BA:2788:C:H5''	1:BA:2789:C:OP2	2.02	0.59
5:BF:101:LEU:HD12	5:BF:102:PRO:CD	2.32	0.59
6:BG:21:ARG:HH11	6:BG:21:ARG:HG2	1.67	0.59
8:BK:27:ARG:HG2	23:BZ:71:TYR:CZ	2.37	0.59
11:BO:15:ARG:O	11:BO:16:ARG:O	2.21	0.59
11:BO:95:VAL:CG2	11:BO:95:VAL:O	2.50	0.59
15:BR:16:ARG:HH21	15:BR:19:LEU:HD21	1.68	0.59
23:BZ:87:PRO:O	23:BZ:88:LYS:C	2.46	0.59
26:B4:63:TYR:O	49:DV:42:PRO:HD2	2.03	0.59
30:B8:29:LYS:C	30:B8:31:HIS:H	2.11	0.59
31:CA:836:G:C6	31:CA:851:G:C6	2.90	0.59
31:CA:1022:G:H2'	31:CA:1023:G:O4'	2.03	0.59
36:CI:4:TYR:CD1	36:CI:92:LYS:HA	2.38	0.59
37:CJ:23:VAL:CG1	37:CJ:43:PHE:CE2	2.84	0.59
31:DA:186:C:H1'	50:DW:81:LYS:HZ3	1.66	0.59
31:DA:407:G:H2'	31:DA:408:A:C8	2.37	0.59
31:DA:413:G:H2'	31:DA:428:G:H22	1.67	0.59
31:DA:1099:G:C6	31:DA:1100:C:N3	2.71	0.59
31:DA:1128:C:C4	31:DA:1139:G:C2	2.91	0.59
1:AA:164:U:O2	1:AA:164:U:H2'	2.01	0.59
1:AA:270(G):C:H2'	1:AA:270(H):C:O4'	2.02	0.59
1:AA:1429:G:H2'	1:AA:1430:C:C6	2.37	0.59
1:AA:1469:A:H2'	1:AA:1470:G:C8	2.37	0.59
1:AA:1591:G:H2'	1:AA:1592:C:C6	2.38	0.59
1:AA:2016:U:H1'	27:A5:6:VAL:HG13	1.83	0.59
1:AA:2104:G:C2	1:AA:2186:G:C2	2.91	0.59
1:AA:2126:A:C6	1:AA:2162:G:N2	2.71	0.59
1:AA:2334:G:C2	14:AQ:12:PHE:CE2	2.91	0.59
2:AB:89:G:H8	2:AB:89:G:OP2	1.84	0.59
3:AD:35:LYS:CA	3:AD:64:ILE:HG22	2.32	0.59
3:AD:85:ASP:OD1	3:AD:86:PRO:HD2	2.02	0.59
4:AE:59:VAL:O	4:AE:60:ASN:CG	2.45	0.59
5:AF:67:GLN:O	5:AF:68:LYS:HG2	2.02	0.59
7:AH:4:ILE:CG1	7:AH:6:ARG:HB2	2.33	0.59
11:AO:50:ARG:NH2	11:AO:50:ARG:CG	2.47	0.59
11:AO:63:PRO:CA	30:A8:13:ARG:HB3	2.33	0.59
12:AP:29:PHE:HD2	12:AP:65:PHE:CE1	2.21	0.59
1:BA:128:C:H2'	1:BA:129:C:H6	1.66	0.59
1:BA:531:C:OP1	1:BA:561:G:N1	2.36	0.59
1:BA:627:A:H62	11:BO:84:ASN:HD21	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1331:A:O2'	1:BA:1332:G:H8	1.84	0.59
1:BA:1558:A:H4'	1:BA:1559:G:H5'	1.85	0.59
1:BA:2111:C:O2	1:BA:2118:U:O2'	2.21	0.59
1:BA:2531:A:C2'	1:BA:2532:G:H5'	2.33	0.59
2:BB:31:C:C2'	2:BB:32:C:H5'	2.33	0.59
5:BF:83:PHE:O	5:BF:84:VAL:CB	2.50	0.59
5:BF:101:LEU:HD12	5:BF:102:PRO:HD2	1.83	0.59
6:BG:112:PRO:HB2	26:B4:37:SER:HA	1.85	0.59
10:BN:92:GLU:HG2	10:BN:113:LYS:HE3	1.83	0.59
11:BO:98:GLU:O	11:BO:102:ARG:HG3	2.03	0.59
12:BP:21:THR:HB	12:BP:99:PRO:O	2.03	0.59
12:BP:50:ALA:O	12:BP:53:ALA:HB3	2.03	0.59
16:B1:92:ARG:HG3	16:B1:94:ASN:H	1.67	0.59
31:CA:223:U:H2'	31:CA:224:C:C6	2.35	0.59
31:CA:1057:G:H2'	31:CA:1058:G:O4'	2.02	0.59
31:CA:1072:G:C5	31:CA:1073:U:C4	2.91	0.59
31:CA:1315:U:H2'	31:CA:1316:G:O4'	2.01	0.59
34:CG:114:ARG:HH11	34:CG:114:ARG:CG	2.16	0.59
45:CR:7:GLU:O	45:CR:11:VAL:HG23	2.02	0.59
31:DA:1032:A:H3'	31:DA:1032(A):G:C5'	2.32	0.59
31:DA:1206:G:C6	31:DA:1207:G:C5	2.91	0.59
40:DM:8:LEU:O	40:DM:16:LEU:HD11	2.03	0.59
41:DN:99:GLN:HG2	41:DN:105:VAL:HG21	1.85	0.59
48:DU:78:LEU:O	48:DU:79:LEU:HD23	2.02	0.59
53:DD:59:A:H8	53:DD:59:A:O5'	1.85	0.59
1:AA:1796:U:H2'	1:AA:1797:C:C6	2.37	0.59
1:AA:1991:U:H2'	1:AA:1992:G:H5''	1.85	0.59
2:AB:108:C:H5'	2:AB:109:G:O5'	2.02	0.59
4:AE:111:ARG:CD	4:AE:160:TYR:CE1	2.84	0.59
15:AR:33:LYS:HE2	15:AR:84:GLN:HB2	1.85	0.59
21:AV:48:PHE:HE2	21:AV:71:VAL:HG11	1.67	0.59
24:AW:4:SER:CB	24:AW:5:GLU:OE2	2.38	0.59
28:A6:15:GLU:HG2	28:A6:16:CYS:N	2.16	0.59
1:BA:57:C:C2'	1:BA:58:G:O5'	2.50	0.59
1:BA:329:G:H4'	1:BA:330:A:OP2	2.02	0.59
1:BA:637:A:H5''	11:BO:117:GLU:HG3	1.83	0.59
1:BA:1012:U:C4	9:BM:25:ARG:HD3	2.38	0.59
1:BA:2779:U:O4'	1:BA:2779:U:O2	2.21	0.59
3:BD:70:TRP:CZ3	3:BD:150:LYS:HA	2.38	0.59
6:BG:67:LYS:HB3	26:B4:6:HIS:HD2	1.68	0.59
9:BM:36:GLY:H	9:BM:42:TRP:HZ3	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BT:49:VAL:HB	19:BT:83:VAL:HG21	1.84	0.59
20:BU:81:LYS:HB3	20:BU:82:PRO:CD	2.33	0.59
28:B6:29:ASN:H	28:B6:29:ASN:HD22	1.51	0.59
31:CA:105:G:H2'	31:CA:106:C:H6	1.65	0.59
31:CA:763:G:H2'	31:CA:764:C:H6	1.68	0.59
31:CA:1004:A:C8	31:CA:1036:G:N2	2.64	0.59
31:CA:1145:C:H4'	31:CA:1146:A:H5'	1.83	0.59
34:CG:61:LYS:HD2	34:CG:206:PHE:CE2	2.36	0.59
35:CH:12:LEU:HB3	35:CH:31:LEU:HB2	1.85	0.59
43:CP:15:VAL:O	43:CP:19:LEU:HD23	2.03	0.59
50:CW:57:ARG:HH12	50:CW:102:GLY:HA2	1.67	0.59
50:CW:72:LEU:HD21	50:CW:77:ALA:N	2.18	0.59
31:DA:51:A:C2	31:DA:353:A:N1	2.71	0.59
31:DA:1131:G:OP1	39:DL:3:GLN:NE2	2.36	0.59
33:DF:111:LEU:HD11	33:DF:145:GLY:CA	2.28	0.59
35:DH:41:VAL:HG13	35:DH:113:ALA:HA	1.85	0.59
43:DP:88:ARG:HG3	43:DP:98:VAL:HG11	1.85	0.59
53:DD:52:C:H42	53:DD:64:G:H1	1.51	0.59
1:AA:141:A:H1'	1:AA:1408:C:O4'	2.03	0.59
1:AA:1056:G:O4'	1:AA:1086:A:C8	2.54	0.59
1:AA:1972:A:H2'	1:AA:1973:G:H8	1.68	0.59
7:AH:83:TYR:CB	7:AH:135:GLY:H	2.02	0.59
16:A1:92:ARG:HB2	17:A2:11:GLN:NE2	2.18	0.59
18:AS:51:LEU:HD23	18:AS:105:VAL:HG11	1.85	0.59
24:AW:50:ILE:O	24:AW:54:LYS:HB2	2.03	0.59
29:A7:25:PRO:HB3	29:A7:28:ARG:NH2	2.18	0.59
1:BA:4:C:H2'	1:BA:5:A:O4'	2.03	0.59
1:BA:271:G:H2'	1:BA:272:G:C8	2.38	0.59
1:BA:1063:G:C6	1:BA:1064:C:C2	2.91	0.59
1:BA:1416:G:HO2'	1:BA:1417:C:H6	1.49	0.59
1:BA:1991:U:H2'	1:BA:1992:G:H5''	1.84	0.59
1:BA:2157:G:H2'	1:BA:2158:A:H8	1.68	0.59
1:BA:2331:G:H4'	22:B3:43:THR:H	1.66	0.59
1:BA:2543:G:H2'	1:BA:2544:G:C8	2.37	0.59
3:BD:58:HIS:HD2	3:BD:59:LYS:O	1.85	0.59
4:BE:48:GLN:O	4:BE:49:LEU:CD1	2.50	0.59
11:BO:50:ARG:HD3	30:B8:7:HIS:NE2	2.18	0.59
31:CA:1002:G:H2'	31:CA:1003:G:C8	2.37	0.59
31:CA:1152:A:C5	31:CA:1153:C:C5	2.90	0.59
33:CF:155:GLY:HA3	33:CF:196:LEU:HB3	1.84	0.59
31:DA:1200:C:H5'	31:DA:1201:A:C5'	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DF:18:TRP:NE1	44:DQ:55:GLY:H	1.99	0.59
1:AA:1432:C:H2'	1:AA:1433:U:O4'	2.02	0.59
1:AA:1534:G:O6	1:AA:1538:G:N2	2.33	0.59
1:AA:2508:G:H5'	52:CB:85:C:N4	2.17	0.59
1:AA:2839:G:C6	1:AA:2840:C:C4	2.91	0.59
8:AK:40:THR:HG22	8:AK:42:SER:H	1.67	0.59
16:A1:66:ASN:HB2	16:A1:76:TYR:HB2	1.85	0.59
30:A8:33:ASN:CA	30:A8:36:LYS:HE3	2.32	0.59
1:BA:270(I):G:H1	1:BA:270(Q):C:N4	2.00	0.59
1:BA:301:G:C4	1:BA:302:C:C5	2.91	0.59
1:BA:851:U:O2	1:BA:928:G:C2	2.56	0.59
1:BA:1224:G:N2	1:BA:1227:A:OP2	2.33	0.59
1:BA:2485:G:C5'	12:BP:46:GLN:HE21	2.15	0.59
1:BA:2820:A:O5'	13:B0:4:LEU:HD23	2.02	0.59
1:BA:2822:G:H8	1:BA:2822:G:O5'	1.86	0.59
3:BD:121:PRO:HB3	3:BD:135:PHE:CE1	2.38	0.59
12:BP:139:GLU:OE1	21:BV:76:LEU:HD21	2.03	0.59
17:B2:73:SER:HB2	17:B2:83:ARG:CA	2.20	0.59
31:CA:96:G:C2'	31:CA:97:U:H5'	2.33	0.59
31:CA:411:A:C6	31:CA:429:U:C4	2.91	0.59
31:CA:1160:G:O6	31:CA:1181:G:C6	2.55	0.59
32:CE:215:LEU:O	32:CE:219:VAL:HG23	2.02	0.59
40:CM:33:GLN:HB2	40:CM:75:ILE:HD11	1.83	0.59
53:CC:68:C:H2'	53:CC:69:C:H5'	1.85	0.59
53:CD:20:G:N3	53:CD:20:G:H2'	2.16	0.59
31:DA:259:G:H1	31:DA:267:C:H42	1.51	0.59
31:DA:321:A:C2	31:DA:333:G:C2	2.91	0.59
31:DA:327:A:O2'	31:DA:328:C:O4'	2.18	0.59
31:DA:476:G:H2'	31:DA:477:G:H8	1.68	0.59
36:DI:60:PHE:C	36:DI:61:LEU:HD12	2.27	0.59
37:DJ:26:PHE:CE2	37:DJ:30:ILE:HD11	2.38	0.59
38:DK:84:ARG:O	38:DK:135:CYS:HB2	2.02	0.59
39:DL:99:LEU:HB3	39:DL:101:PHE:CE1	2.37	0.59
42:DO:70:ILE:CD1	42:DO:77:LEU:HD12	2.32	0.59
1:AA:32:C:C2'	1:AA:33:U:H5'	2.33	0.58
1:AA:1380:G:N2	1:AA:1570:A:C2	2.71	0.58
1:AA:2001:A:H2'	1:AA:2002:G:C8	2.38	0.58
1:AA:2212:A:H1'	1:AA:2215:G:C4	2.37	0.58
1:AA:2310:A:N3	1:AA:2310:A:C3'	2.64	0.58
3:AD:32:SER:O	3:AD:33:LEU:HB3	2.01	0.58
4:AE:51:PHE:O	4:AE:74:PRO:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:83:ARG:N	6:AG:86:MET:HE1	2.18	0.58
8:AK:144:VAL:HG22	8:AK:145:VAL:N	2.16	0.58
11:AO:101:VAL:HG23	11:AO:106:LEU:HB3	1.84	0.58
13:A0:75:LEU:HA	13:A0:78:LYS:HB3	1.85	0.58
21:AV:150:LEU:HD23	21:AV:154:ASP:HB2	1.84	0.58
1:BA:545:G:H21	1:BA:548:A:N6	1.98	0.58
1:BA:1024:G:C3'	1:BA:1025:G:H5''	2.33	0.58
1:BA:1048:A:OP2	1:BA:1109:C:N4	2.36	0.58
1:BA:1170:G:O6	1:BA:1179:C:N3	2.36	0.58
1:BA:1385:G:N3	1:BA:1386:C:C6	2.71	0.58
1:BA:1763:G:H5'	1:BA:1764:G:OP2	2.03	0.58
1:BA:2320:A:H61	1:BA:2333:A:H2'	1.68	0.58
6:BG:5:VAL:HG22	26:B4:25:TYR:CE2	2.38	0.58
7:BH:20:ALA:HB3	7:BH:23:ARG:HB2	1.84	0.58
7:BH:125:VAL:HG22	7:BH:126:PRO:CD	2.17	0.58
14:BQ:20:ARG:HG2	14:BQ:20:ARG:O	2.02	0.58
16:B1:112:ARG:NH1	17:B2:47:VAL:HG13	2.18	0.58
22:B3:53:MET:HA	22:B3:58:THR:O	2.02	0.58
31:CA:299:G:H2'	31:CA:300:A:C8	2.38	0.58
31:CA:1349:A:P	39:CL:118:LYS:NZ	2.76	0.58
31:DA:1028:C:H42	31:DA:1033:G:H1	1.51	0.58
31:DA:1053:G:C4	31:DA:1199:U:C5	2.91	0.58
31:DA:1300:G:O2'	31:DA:1301:U:P	2.61	0.58
32:DE:92:TYR:CD2	32:DE:92:TYR:C	2.80	0.58
53:DC:63:C:O2	53:DC:63:C:H2'	2.03	0.58
1:AA:102:G:OP1	24:AW:7:ARG:NH1	2.35	0.58
1:AA:164:U:H5''	1:AA:165:U:O2	2.03	0.58
1:AA:494:G:N2	18:AS:57:ASN:HD21	2.01	0.58
1:AA:1437:C:H2'	1:AA:1438:U:H6	1.67	0.58
1:AA:1688:U:O2	1:AA:1700:A:H5''	2.03	0.58
1:AA:2023:G:H5'	1:AA:2617:C:H4'	1.85	0.58
3:AD:75:ILE:HG21	3:AD:99:ASP:OD1	2.03	0.58
8:AK:85:GLU:OE1	8:AK:86:THR:OG1	2.21	0.58
16:A1:60:LEU:CD1	16:A1:64:ARG:HD2	2.32	0.58
16:A1:91:ASP:O	16:A1:92:ARG:C	2.44	0.58
1:BA:320:A:H4'	1:BA:322:A:C8	2.38	0.58
1:BA:847:U:OP2	1:BA:929:G:O6	2.21	0.58
1:BA:2062:A:H62	1:BA:2503:A:H62	1.48	0.58
1:BA:2306:C:C3'	1:BA:2307:G:H5''	2.24	0.58
2:BB:44:G:H1'	2:BB:47:C:N4	2.18	0.58
6:BG:77:ILE:O	6:BG:81:LYS:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BG:117:PHE:HD1	6:BG:118:ARG:O	1.83	0.58
11:BO:147:LEU:CD2	11:BO:148:LEU:H	2.16	0.58
21:BV:97:GLU:HB3	21:BV:125:LEU:HD11	1.85	0.58
26:B4:2:LYS:HD2	26:B4:6:HIS:CE1	2.39	0.58
28:B6:43:CYS:SG	28:B6:43:CYS:O	2.61	0.58
31:CA:466:C:C5'	31:CA:467:G:OP2	2.51	0.58
31:CA:1399:C:H4'	31:CA:1400:C:O5'	2.02	0.58
31:CA:1466:C:H2'	31:CA:1467:G:O4'	2.03	0.58
37:CJ:26:PHE:CE2	37:CJ:30:ILE:HD11	2.39	0.58
47:CT:22:LEU:HD11	47:CT:39:SER:HB3	1.84	0.58
49:CV:30:LEU:H	49:CV:30:LEU:HD13	1.67	0.58
31:DA:321:A:H62	31:DA:328:C:H1'	1.68	0.58
31:DA:1321:C:C5	31:DA:1322:C:C5	2.91	0.58
31:DA:1503:A:H1'	31:DA:1504:G:OP1	2.03	0.58
32:DE:8:LYS:C	32:DE:10:LEU:H	2.10	0.58
34:DG:162:LEU:HD12	34:DG:181:MET:HE2	1.84	0.58
48:DU:56:THR:HB	48:DU:58:LEU:HD11	1.84	0.58
49:DV:45:VAL:HA	49:DV:62:ILE:CG2	2.32	0.58
53:DD:15:G:N2	53:DD:49:C:C2	2.66	0.58
1:AA:2335:A:C8	1:AA:2337:G:N7	2.72	0.58
1:AA:2468:G:N2	1:AA:2482:G:C8	2.70	0.58
1:AA:2619:C:H4'	4:AE:151:TYR:O	2.03	0.58
6:AG:26:GLN:NE2	6:AG:27:ASN:HB2	2.19	0.58
8:AK:3:VAL:HG12	8:AK:38:LEU:HA	1.86	0.58
11:AO:15:ARG:O	11:AO:16:ARG:O	2.21	0.58
11:AO:64:LYS:HD3	30:A8:25:MET:SD	2.43	0.58
11:AO:97:PRO:HD3	11:AO:126:VAL:O	2.03	0.58
12:AP:112:GLU:CD	12:AP:112:GLU:H	2.11	0.58
14:AQ:26:LEU:HB3	14:AQ:87:PHE:HA	1.85	0.58
14:AQ:88:ASP:CG	14:AQ:89:ARG:N	2.59	0.58
24:AW:29:LYS:HD3	24:AW:57:ILE:HD13	1.84	0.58
25:AX:52:HIS:CD2	25:AX:52:HIS:H	2.20	0.58
26:A4:37:SER:HB3	26:A4:42:PHE:CD1	2.38	0.58
1:BA:270(F):U:H2'	1:BA:270(G):C:C6	2.38	0.58
1:BA:1043:C:H2'	1:BA:1044:G:H5'	1.85	0.58
1:BA:1353:A:H4'	3:BD:38:LYS:NZ	2.18	0.58
1:BA:2015:A:C2'	27:B5:2:ALA:HA	2.27	0.58
1:BA:2111:C:H41	1:BA:2147:G:N2	2.01	0.58
1:BA:2213:U:H4'	23:BZ:52:ARG:HH22	1.67	0.58
1:BA:2522:U:C2'	1:BA:2523:G:H5''	2.32	0.58
5:BF:148:LEU:HD23	5:BF:191:ARG:HH12	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BH:106:THR:HG23	7:BH:112:PRO:HB3	1.84	0.58
14:BQ:3:ARG:HG3	14:BQ:4:LEU:N	2.19	0.58
14:BQ:106:ARG:HB3	14:BQ:110:LEU:HD11	1.85	0.58
15:BR:136:GLN:O	15:BR:137:LYS:HD2	2.02	0.58
30:B8:51:ALA:O	30:B8:53:PRO:CD	2.50	0.58
31:CA:377:G:OP1	46:CS:3:LYS:HD2	2.03	0.58
31:CA:954:G:H21	31:CA:1227:A:H62	1.51	0.58
31:CA:1084:G:C5	31:CA:1085:U:C4	2.91	0.58
31:CA:1152:A:H4'	40:CM:13:HIS:CD2	2.38	0.58
39:CL:23:ASN:OD1	39:CL:25:LYS:HB3	2.02	0.58
43:CP:99:ARG:O	43:CP:101:GLN:NE2	2.37	0.58
43:CP:108:ARG:HD2	43:CP:108:ARG:N	2.16	0.58
31:DA:992:U:H1'	31:DA:993:G:OP2	2.02	0.58
31:DA:1028(A):C:N4	31:DA:1028(B):C:H41	2.01	0.58
38:DK:29:SER:HB3	38:DK:32:LYS:CG	2.34	0.58
1:AA:164:U:H5''	1:AA:165:U:C2	2.37	0.58
1:AA:1067:A:H2'	1:AA:1067:A:N3	2.18	0.58
1:AA:1085:A:C4'	1:AA:1086:A:OP1	2.50	0.58
1:AA:1111:A:O2'	1:AA:1112:G:H4'	2.03	0.58
1:AA:1914:C:H2'	1:AA:1915:U:O4'	2.04	0.58
1:AA:2212:A:H1'	1:AA:2215:G:C5	2.38	0.58
1:AA:2712:U:O2	1:AA:2712:U:C5'	2.47	0.58
5:AF:34:TRP:NE1	11:AO:8:PRO:HD3	2.18	0.58
15:AR:41:ARG:HG2	31:CA:346:G:H5'	1.85	0.58
23:AZ:91:LYS:O	23:AZ:94:LEU:N	2.31	0.58
28:A6:36:LEU:HD23	28:A6:36:LEU:H	1.66	0.58
30:A8:29:LYS:HZ2	30:A8:44:LYS:HB2	1.66	0.58
1:BA:84:A:OP2	20:BU:8:LYS:HD3	2.02	0.58
1:BA:1485:G:C2'	1:BA:1486:A:H5'	2.33	0.58
1:BA:2103:C:H2'	1:BA:2104:G:C8	2.39	0.58
1:BA:2130:U:H2'	1:BA:2131:G:H5''	1.86	0.58
4:BE:134:ILE:C	4:BE:134:ILE:HD12	2.27	0.58
5:BF:149:ASP:OD2	5:BF:151:SER:OG	2.19	0.58
5:BF:162:LEU:HD12	5:BF:162:LEU:N	2.19	0.58
7:BH:74:ASN:ND2	7:BH:138:LYS:HG2	2.18	0.58
11:BO:57:THR:C	11:BO:59:LEU:N	2.61	0.58
11:BO:85:LEU:HB3	11:BO:114:ILE:CD1	2.33	0.58
13:B0:87:TYR:HD1	13:B0:90:ARG:HD2	1.68	0.58
15:BR:82:LEU:H	15:BR:82:LEU:HD12	1.68	0.58
17:B2:59:ALA:HA	17:B2:95:LEU:O	2.03	0.58
31:CA:687:A:H4'	31:CA:688:G:O5'	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:939:G:H2'	31:CA:940:C:C6	2.38	0.58
31:CA:1004:A:OP1	31:CA:1025:U:O4	2.21	0.58
31:CA:1032(B):G:H2'	31:CA:1033:G:C8	2.38	0.58
31:CA:1301:U:C2'	31:CA:1302:U:H5'	2.32	0.58
31:CA:1346:A:C4	37:CJ:10:ARG:NH1	2.71	0.58
31:CA:1391:U:H2'	31:CA:1392:G:C8	2.38	0.58
33:CF:34:LEU:HD22	33:CF:38:ARG:HD2	1.84	0.58
34:CG:28:SER:HB3	34:CG:29:PRO:CD	2.33	0.58
46:CS:72:ARG:CD	46:CS:73:LEU:HD23	2.33	0.58
31:DA:192:U:O4'	50:DW:103:GLY:HA3	2.04	0.58
31:DA:1028(B):C:H3'	31:DA:1029:G:H5''	1.84	0.58
31:DA:1226:C:H4'	49:DV:80:TYR:OH	2.02	0.58
31:DA:1305:G:N2	31:DA:1331:G:H2'	2.15	0.58
32:DE:64:ARG:HG2	32:DE:64:ARG:O	2.02	0.58
35:DH:31:LEU:HD11	35:DH:129:ILE:HA	1.85	0.58
39:DL:99:LEU:HB3	39:DL:101:PHE:HE1	1.69	0.58
53:DC:51:U:H2'	53:DC:52:C:C6	2.38	0.58
1:AA:957:A:N1	1:AA:2458:G:H4'	2.18	0.58
1:AA:1025:G:C4	1:AA:1135:C:H1'	2.38	0.58
1:AA:1139:G:O2'	1:AA:1143:A:N1	2.33	0.58
1:AA:1973:G:H2'	1:AA:1974:C:C6	2.39	0.58
5:AF:32:LEU:HD12	5:AF:32:LEU:O	2.02	0.58
6:AG:125:PHE:HE1	6:AG:180:PHE:HE2	1.51	0.58
8:AK:88:ILE:O	8:AK:121:LYS:HE3	2.03	0.58
8:AK:104:GLN:O	8:AK:105:HIS:CG	2.57	0.58
16:A1:17:ILE:HG23	16:A1:39:LEU:HD12	1.86	0.58
27:A5:16:ARG:O	27:A5:20:ARG:HD2	2.04	0.58
28:A6:28:ARG:HH11	28:A6:28:ARG:HB3	1.68	0.58
28:A6:46:HIS:O	28:A6:47:THR:CB	2.50	0.58
1:BA:212:G:O2'	1:BA:213:A:H5'	2.03	0.58
1:BA:309:G:O3'	20:BU:18:GLY:HA2	2.04	0.58
1:BA:882:G:H1	1:BA:894:C:H42	0.68	0.58
1:BA:1061:U:H4'	1:BA:1070:A:H1'	1.85	0.58
1:BA:1558:A:O2'	1:BA:1559:G:OP2	2.14	0.58
1:BA:2135:A:OP2	1:BA:2135:A:C8	2.57	0.58
2:BB:88:C:H3'	2:BB:89:G:H8	1.69	0.58
3:BD:186:HIS:HD2	3:BD:188:GLU:N	1.94	0.58
4:BE:46:ALA:HB2	4:BE:82:ARG:HA	1.84	0.58
6:BG:43:LEU:O	6:BG:88:ILE:HG12	2.03	0.58
7:BH:149:ARG:HD3	7:BH:164:TYR:CE1	2.38	0.58
9:BM:47:ALA:O	9:BM:49:GLY:N	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BM:128:HIS:NE2	9:BM:134:ARG:HD2	2.18	0.58
12:BP:35:VAL:CG2	12:BP:130:LYS:HE2	2.34	0.58
27:B5:5:PRO:O	27:B5:6:VAL:CG2	2.52	0.58
29:B7:8:ASN:ND2	29:B7:8:ASN:C	2.62	0.58
31:CA:148:G:C2	31:CA:149:A:N7	2.71	0.58
31:CA:342:C:N3	31:CA:348:G:C2	2.71	0.58
31:CA:914:A:C4	31:CA:915:A:C8	2.92	0.58
34:CG:3:ARG:HG2	34:CG:118:ARG:CZ	2.33	0.58
35:CH:41:VAL:HG11	35:CH:113:ALA:HB2	1.84	0.58
40:CM:40:LEU:HB2	40:CM:69:ASN:HB2	1.86	0.58
53:CD:39:A:H2'	53:CD:40:C:H5'	1.84	0.58
31:DA:77:C:N4	31:DA:92:G:H1	2.00	0.58
31:DA:109:A:C6	31:DA:326:G:C6	2.91	0.58
31:DA:527:G:C2'	31:DA:528:C:H5'	2.33	0.58
31:DA:1352:C:H2'	31:DA:1353:G:C8	2.38	0.58
32:DE:67:THR:HG21	32:DE:155:LEU:HG	1.84	0.58
34:DG:201:GLN:NE2	34:DG:204:ILE:HD12	2.18	0.58
37:DJ:22:LEU:HD23	37:DJ:62:PHE:HE2	1.67	0.58
49:DV:40:ILE:HD11	49:DV:71:LEU:HD23	1.86	0.58
1:AA:960:A:N6	12:AP:83:MET:HE2	2.08	0.58
1:AA:1085:A:H2	1:AA:1086:A:N7	2.01	0.58
1:AA:1925:C:H2'	1:AA:1926:U:H5'	1.86	0.58
1:AA:2419:U:O4	30:A8:30:ARG:NE	2.36	0.58
4:AE:4:ILE:HG12	4:AE:5:LEU:N	2.19	0.58
10:AN:3:GLN:HG3	10:AN:4:PRO:HD2	1.83	0.58
14:AQ:38:GLN:HG3	14:AQ:47:THR:HG21	1.86	0.58
15:AR:26:ASP:HB3	15:AR:92:GLY:H	1.67	0.58
17:A2:65:GLY:HA3	17:A2:91:TYR:CE1	2.38	0.58
1:BA:1460:A:H4'	1:BA:1461:G:OP2	2.03	0.58
1:BA:2162:G:O2'	1:BA:2163:C:H5'	2.02	0.58
6:BG:97:ASP:H	6:BG:100:TRP:HD1	1.52	0.58
8:BK:38:LEU:H	8:BK:38:LEU:HD12	1.68	0.58
11:BO:109:GLY:O	11:BO:110:TYR:CD2	2.57	0.58
12:BP:57:HIS:O	12:BP:57:HIS:CG	2.56	0.58
26:B4:50:VAL:O	26:B4:51:ASP:CG	2.47	0.58
28:B6:13:CYS:O	28:B6:21:TYR:HA	2.04	0.58
30:B8:33:ASN:N	30:B8:33:ASN:OD1	2.35	0.58
31:CA:659:U:O2'	31:CA:660:G:H5'	2.04	0.58
31:CA:960:U:O2	31:CA:1225:A:C5	2.56	0.58
31:CA:1191:A:H5''	31:CA:1192:C:OP2	2.03	0.58
31:CA:1348:U:N3	31:CA:1374:A:C2	2.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:200:ILE:H	32:CE:200:ILE:HD12	1.67	0.58
40:CM:3:LYS:O	40:CM:100:THR:HG22	2.03	0.58
31:DA:616:G:H2'	31:DA:617:G:H8	1.68	0.58
31:DA:1004:A:H8	31:DA:1036:G:N2	1.90	0.58
31:DA:1219:U:OP1	44:DQ:19:ARG:NH2	2.36	0.58
1:AA:587:C:N3	11:AO:33:ARG:NH1	2.52	0.58
1:AA:879:G:H1	1:AA:898:C:H42	1.50	0.58
1:AA:988:A:N6	25:AX:13:ILE:HG21	2.19	0.58
1:AA:1050:A:H1'	1:AA:2751:G:C8	2.39	0.58
1:AA:2108:C:H2'	1:AA:2109:U:O4'	2.03	0.58
1:AA:2112:G:H1	53:CD:57:C:H42	1.51	0.58
1:AA:2199:A:OP2	1:AA:2205:C:H5	1.87	0.58
1:AA:2344:U:OP1	28:A6:38:LYS:HE3	2.03	0.58
1:AA:2751:G:C8	1:AA:2751:G:O5'	2.56	0.58
7:AH:15:VAL:HG12	7:AH:28:GLY:HA3	1.86	0.58
8:AK:21:VAL:HG21	8:AK:25:TYR:HD1	1.68	0.58
9:AM:120:LEU:HD22	9:AM:121:LYS:N	2.18	0.58
12:AP:104:PHE:HE1	12:AP:125:LEU:HD11	1.68	0.58
22:A3:51:VAL:N	22:A3:62:LEU:HD12	2.18	0.58
1:BA:2584:U:H5''	1:BA:2585:U:OP2	2.03	0.58
1:BA:2740:A:C6	1:BA:2764:A:C8	2.91	0.58
1:BA:2798:C:H5	1:BA:2799:A:H62	1.51	0.58
3:BD:270:ILE:CG2	3:BD:271:ILE:H	2.17	0.58
4:BE:47:VAL:HG13	4:BE:48:GLN:N	2.16	0.58
7:BH:169:VAL:O	7:BH:170:ARG:HG2	2.04	0.58
8:BK:56:LYS:O	8:BK:60:GLU:HB2	2.03	0.58
9:BM:30:ILE:HG22	9:BM:34:LEU:CD2	2.33	0.58
17:B2:46:VAL:HG22	17:B2:46:VAL:O	2.03	0.58
20:BU:17:SER:HB2	20:BU:71:LYS:HD2	1.86	0.58
23:BZ:7:ILE:HD11	23:BZ:70:VAL:HG22	1.84	0.58
23:BZ:18:ILE:HG12	23:BZ:37:ILE:HG12	1.84	0.58
28:B6:15:GLU:HG2	28:B6:16:CYS:H	1.68	0.58
31:CA:102:G:C5	31:CA:103:C:C5	2.92	0.58
31:CA:250:A:H4'	31:CA:251:G:H5''	1.86	0.58
31:CA:728:A:C5	45:CR:54:ARG:HD2	2.39	0.58
31:CA:1128:C:H5'	39:CL:16:ARG:NH1	2.17	0.58
31:CA:1285:A:H4'	31:CA:1286:A:C5'	2.33	0.58
31:CA:1448:C:H42	31:CA:1455:G:H1	1.52	0.58
33:CF:126:ARG:HG3	33:CF:126:ARG:NH1	2.14	0.58
52:CB:15:A:C2	52:CB:21:A:N6	2.71	0.58
31:DA:735:C:H2'	31:DA:736:C:H6	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1356:G:H2'	31:DA:1357:A:C8	2.38	0.58
34:DG:11:LEU:C	34:DG:13:ARG:N	2.59	0.58
44:DQ:12:ARG:NH1	44:DQ:14:PRO:HG2	2.19	0.58
50:DW:37:SER:O	50:DW:41:ILE:HG13	2.03	0.58
53:DD:51:U:H3	53:DD:65:G:H1	1.52	0.58
53:DD:68:C:H2'	53:DD:69:C:C6	2.39	0.58
1:AA:456:C:C4	19:AT:69:TYR:CE1	2.92	0.58
1:AA:479:A:H4'	1:AA:480:A:OP1	2.04	0.58
1:AA:582:G:H2'	1:AA:583:G:C8	2.38	0.58
1:AA:784:A:C8	1:AA:792:G:C5	2.92	0.58
1:AA:963:U:H2'	1:AA:964:C:C6	2.39	0.58
1:AA:1534:G:H2'	1:AA:1535:U:O4'	2.03	0.58
1:AA:2310:A:H5''	1:AA:2311:A:OP2	2.02	0.58
1:AA:2319:G:OP2	1:AA:2319:G:H4'	2.02	0.58
1:AA:2682:U:H5'	1:AA:2682:U:H6	1.69	0.58
1:AA:2734:A:H5'	1:AA:2734:A:C8	2.38	0.58
3:AD:158:ALA:HB3	3:AD:161:THR:HG21	1.86	0.58
22:A3:24:LYS:O	22:A3:25:ARG:NH1	2.35	0.58
25:AX:19:GLN:NE2	25:AX:52:HIS:HE1	2.02	0.58
1:BA:146:G:H2'	1:BA:147:U:O4'	2.04	0.58
1:BA:311:A:C8	1:BA:332:A:N7	2.71	0.58
1:BA:828:U:H3'	1:BA:828:U:O2	2.04	0.58
1:BA:880:G:H2'	1:BA:880:G:N3	2.18	0.58
1:BA:1049:C:N3	7:BH:2:SER:N	2.52	0.58
1:BA:1084:A:H5''	1:BA:1085:A:OP2	2.04	0.58
1:BA:1278:A:H5''	13:B0:36:THR:HG22	1.86	0.58
1:BA:1444(A):A:H2'	1:BA:1444(A):A:N3	2.18	0.58
1:BA:1464:C:O2'	1:BA:1528:A:H8	1.71	0.58
1:BA:1869:G:H5'	1:BA:1869:G:H8	1.67	0.58
1:BA:2593:U:H2'	1:BA:2594:C:H6	1.68	0.58
1:BA:2833:G:OP1	1:BA:2833:G:H8	1.86	0.58
5:BF:68:LYS:HA	5:BF:68:LYS:CE	2.34	0.58
5:BF:148:LEU:HD23	5:BF:191:ARG:NH1	2.18	0.58
11:BO:48:PRO:C	11:BO:50:ARG:H	2.12	0.58
26:B4:63:TYR:CZ	49:DV:41:VAL:HG22	2.39	0.58
31:CA:191:G:C4	50:CW:105:SER:HB2	2.39	0.58
31:CA:262:A:H5''	31:CA:263:A:OP2	2.03	0.58
31:CA:1039:C:H2'	31:CA:1040:U:O4'	2.03	0.58
32:CE:16:HIS:NE2	32:CE:213:LEU:HD13	2.03	0.58
33:CF:84:ILE:O	33:CF:88:ARG:HG3	2.04	0.58
35:CH:100:VAL:HG22	35:CH:118:ILE:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CM:4:ILE:HD13	40:CM:100:THR:HG23	1.86	0.58
41:CN:41:THR:HG23	41:CN:42:TRP:N	2.18	0.58
31:DA:266:G:H5''	31:DA:268:C:H41	1.68	0.58
31:DA:281:G:H8	31:DA:281:G:OP2	1.86	0.58
31:DA:963:G:O2'	40:DM:54:PHE:HZ	1.87	0.58
31:DA:1053:G:C2'	31:DA:1054:C:OP2	2.52	0.58
33:DF:18:TRP:HD1	44:DQ:54:PRO:HA	1.68	0.58
39:DL:48:GLU:HB3	39:DL:101:PHE:HE2	1.69	0.58
43:DP:39:ILE:HD13	43:DP:52:GLU:HB3	1.85	0.58
50:DW:67:ALA:HA	50:DW:73:HIS:H	1.68	0.58
1:AA:71:A:C2	19:AT:31:HIS:CE1	2.89	0.58
1:AA:576:U:H2'	1:AA:577:G:C8	2.39	0.58
2:AB:35:U:H2'	2:AB:36:C:C6	2.38	0.58
6:AG:109:VAL:O	6:AG:113:ARG:HG3	2.04	0.58
18:AS:37:ARG:HG2	18:AS:38:TYR:CE2	2.39	0.58
23:AZ:92:LYS:HA	23:AZ:95:LEU:HD12	1.86	0.58
26:A4:15:ILE:HB	26:A4:32:TYR:CD1	2.38	0.58
1:BA:322:A:OP2	5:BF:169:ASN:HB2	2.03	0.58
1:BA:1472:A:H2'	1:BA:1473:G:H5'	1.85	0.58
1:BA:1536:A:H5''	1:BA:1537:C:OP2	2.04	0.58
1:BA:1771:C:O2'	1:BA:1786:A:H8	1.86	0.58
1:BA:1899:G:O2'	1:BA:1900:A:H5''	2.04	0.58
1:BA:2776:A:H4'	1:BA:2777:G:O5'	2.04	0.58
1:BA:2854:G:C2	1:BA:2864:G:C2	2.92	0.58
8:BK:77:LEU:HA	8:BK:141:LYS:H	1.68	0.58
12:BP:66:ILE:CD1	12:BP:67:ARG:H	2.17	0.58
17:B2:76:LYS:N	17:B2:80:GLN:HB3	2.18	0.58
30:B8:8:LYS:HD3	30:B8:8:LYS:N	2.19	0.58
30:B8:22:VAL:HB	30:B8:50:LEU:CG	2.31	0.58
31:CA:1263:C:N3	31:CA:1272:G:O6	2.37	0.58
32:CE:39:ILE:HG22	32:CE:40:HIS:O	2.04	0.58
32:CE:69:LEU:HD13	32:CE:91:PRO:HB2	1.86	0.58
32:CE:100:GLY:O	32:CE:104:ASN:N	2.34	0.58
32:CE:213:LEU:O	32:CE:217:ARG:NH1	2.36	0.58
34:CG:78:LEU:HD22	34:CG:96:LEU:HB3	1.86	0.58
46:CS:58:TYR:C	46:CS:58:TYR:HD1	2.12	0.58
48:CU:36:ASN:H	48:CU:36:ASN:HD22	1.52	0.58
53:CC:18:C:C2'	53:CC:18:C:O2	2.51	0.58
31:DA:488:C:O2'	31:DA:489:C:H5'	2.04	0.58
45:DR:56:LEU:HA	45:DR:59:MET:HE3	1.85	0.58
52:DB:79:U:H2'	52:DB:80:C:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1006:C:O2	9:AM:106:MET:HG2	2.03	0.58
1:AA:2476:A:H2'	1:AA:2476:A:N3	2.18	0.58
1:AA:2602:A:N7	53:CC:77:A:O2'	2.37	0.58
7:AH:98:LEU:HD12	7:AH:102:ALA:O	2.03	0.58
15:AR:39:ARG:CG	15:AR:40:THR:H	2.17	0.58
21:AV:111:VAL:O	21:AV:111:VAL:HG23	2.04	0.58
28:A6:36:LEU:H	28:A6:36:LEU:CD2	2.16	0.58
1:BA:521:G:H2'	1:BA:522:G:H8	1.69	0.58
1:BA:1430:C:H2'	1:BA:1431:U:H6	1.67	0.58
1:BA:2472:G:C4	1:BA:2475:C:N4	2.72	0.58
3:BD:44:ASN:HB3	3:BD:49:ILE:CA	2.17	0.58
5:BF:113:ALA:HB1	5:BF:186:ILE:HG21	1.85	0.58
11:BO:147:LEU:O	11:BO:148:LEU:HD23	2.04	0.58
19:BT:60:ARG:CG	19:BT:60:ARG:NH1	2.62	0.58
21:BV:175:VAL:HG13	21:BV:176:PRO:HD2	1.86	0.58
31:CA:187:C:O2	31:CA:191(A):G:C6	2.56	0.58
31:CA:404:U:H2'	31:CA:405:U:H6	1.69	0.58
31:CA:652:U:C4	31:CA:752:G:N3	2.72	0.58
31:DA:142:G:H1	31:DA:221:C:N4	1.99	0.58
42:DO:6:THR:OG1	42:DO:9:GLN:HG3	2.04	0.58
1:AA:139:G:N3	1:AA:141:A:N1	2.52	0.57
1:AA:338:G:N2	1:AA:339:U:H1'	2.18	0.57
1:AA:1093:G:OP1	7:AH:170:ARG:NH1	2.37	0.57
1:AA:1244:G:OP1	11:AO:7:ARG:HD3	2.04	0.57
1:AA:1512:G:H2'	1:AA:1513:C:C6	2.39	0.57
1:AA:1728:G:H2'	1:AA:1731:G:O6	2.04	0.57
1:AA:2021:C:H4'	1:AA:2022:U:OP2	2.04	0.57
1:AA:2865:U:C4	1:AA:2866:U:C4	2.91	0.57
8:AK:130:TYR:HB3	8:AK:136:VAL:HG22	1.84	0.57
21:AV:142:SER:N	21:AV:143:GLY:HA2	2.19	0.57
1:BA:221:A:N1	1:BA:265:A:O2'	2.36	0.57
1:BA:830:G:H4'	1:BA:831:G:OP2	2.04	0.57
1:BA:1496:A:O2'	1:BA:1497:U:H2'	2.04	0.57
1:BA:1784:A:H4'	1:BA:1785:A:O5'	2.04	0.57
1:BA:2261:C:C5	22:B3:16:SER:HB3	2.39	0.57
3:BD:93:ALA:HB3	3:BD:105:ILE:HG22	1.86	0.57
3:BD:255:LYS:O	3:BD:255:LYS:HD2	2.04	0.57
4:BE:42:ASP:HB3	4:BE:44:TYR:CE1	2.39	0.57
17:B2:76:LYS:H	17:B2:80:GLN:HB3	1.68	0.57
31:CA:38:G:C2	31:CA:397:A:C2	2.92	0.57
31:CA:1002:G:C2'	31:CA:1003:G:H5'	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1363:A:H1'	31:CA:1365:G:N7	2.19	0.57
32:CE:17:PHE:HA	32:CE:42:ILE:HG22	1.86	0.57
32:CE:21:ARG:HB2	32:CE:39:ILE:HA	1.86	0.57
32:CE:60:ASP:HB3	32:CE:64:ARG:HH12	1.67	0.57
32:CE:84:GLU:HB3	32:CE:219:VAL:HG21	1.85	0.57
34:CG:147:ALA:HB2	34:CG:182:LYS:HB3	1.86	0.57
39:CL:22:GLY:HA3	39:CL:60:ASP:OD2	2.04	0.57
42:CO:3:THR:OG1	42:CO:6:GLN:HG3	2.03	0.57
46:CS:11:SER:HB2	46:CS:14:ASN:HB3	1.86	0.57
50:CW:50:GLU:HA	50:CW:100:ILE:HG22	1.86	0.57
33:DF:8:ILE:HG23	33:DF:16:ARG:HG2	1.86	0.57
39:DL:5:TYR:CD2	39:DL:18:PHE:CE2	2.92	0.57
42:DO:41:ARG:HB3	42:DO:41:ARG:NH1	2.13	0.57
42:DO:47:LYS:O	42:DO:49:ASN:N	2.37	0.57
42:DO:82:VAL:HG23	42:DO:106:ASP:OD1	2.04	0.57
48:DU:22:VAL:O	48:DU:23:LYS:HB3	2.04	0.57
1:AA:286:C:H2'	1:AA:287:C:H6	1.69	0.57
1:AA:455:C:N3	1:AA:472:A:H2'	2.18	0.57
1:AA:511:U:C5	1:AA:512:G:C5	2.93	0.57
1:AA:1084:A:N6	1:AA:1085:A:N6	2.52	0.57
1:AA:1856:G:H2'	1:AA:1857:G:H5'	1.84	0.57
1:AA:2393:A:H5'	11:AO:62:LEU:CB	2.22	0.57
1:AA:2886:G:C2	1:AA:2887:U:C6	2.92	0.57
6:AG:64:THR:OG1	6:AG:94:LEU:HD13	2.05	0.57
10:AN:90:GLN:O	10:AN:91:LEU:HB2	2.03	0.57
12:AP:110:THR:OG1	12:AP:113:GLN:HB2	2.03	0.57
16:A1:66:ASN:OD1	16:A1:76:TYR:HB3	2.04	0.57
1:BA:200:U:O4	1:BA:250:G:N2	2.37	0.57
1:BA:226:G:H21	1:BA:228:A:H61	0.58	0.57
1:BA:363(B):G:H2'	1:BA:363(C):G:C8	2.39	0.57
1:BA:733:G:O6	1:BA:761:A:C8	2.57	0.57
1:BA:959:A:C6	1:BA:960:A:N1	2.73	0.57
1:BA:1869:G:N2	1:BA:1872:A:OP2	2.38	0.57
1:BA:2134:A:H2'	1:BA:2134:A:N3	2.18	0.57
1:BA:2557:G:H2'	1:BA:2558:C:H6	1.64	0.57
3:BD:267:SER:O	3:BD:268:ARG:CB	2.52	0.57
4:BE:171:GLU:O	4:BE:184:VAL:HA	2.04	0.57
5:BF:24:LEU:HB3	5:BF:25:PRO:CD	2.34	0.57
5:BF:25:PRO:HB2	5:BF:27:GLU:H	1.69	0.57
11:BO:19:VAL:HG22	11:BO:20:GLY:H	1.68	0.57
11:BO:79:ARG:CD	11:BO:110:TYR:CE1	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BX:19:GLN:HE22	25:BX:52:HIS:CE1	2.21	0.57
31:CA:933:G:OP2	37:CJ:3:ARG:HB2	2.04	0.57
31:CA:942:G:H21	39:CL:124:GLN:NE2	2.03	0.57
39:CL:16:ARG:CB	39:CL:64:THR:HG22	2.32	0.57
44:CQ:44:LEU:HD12	44:CQ:44:LEU:O	2.04	0.57
49:CV:50:ALA:HB1	49:CV:57:HIS:HB3	1.86	0.57
53:CC:1:C:H4'	53:CC:2:G:H5'	1.85	0.57
31:DA:345:C:HO2'	31:DA:346:G:P	2.25	0.57
31:DA:439:A:H2'	31:DA:440:A:O5'	2.03	0.57
31:DA:1053:G:C5	31:DA:1199:U:C6	2.92	0.57
32:DE:82:ARG:HD2	32:DE:92:TYR:OH	2.04	0.57
32:DE:144:ARG:HG3	32:DE:145:LEU:N	2.18	0.57
35:DH:103:GLY:C	35:DH:106:PRO:HD2	2.29	0.57
40:DM:78:ASN:OD1	40:DM:78:ASN:N	2.36	0.57
47:DT:59:ILE:CG2	47:DT:71:PHE:HB3	2.33	0.57
53:DC:73:A:N6	53:DC:74:A:C6	2.72	0.57
1:AA:819:A:C4	1:AA:1189:A:C2	2.92	0.57
1:AA:1465:G:C4	1:AA:1466:G:C8	2.92	0.57
1:AA:1465:G:H5'	1:AA:1528:A:H1'	1.86	0.57
1:AA:2019:A:C2'	1:AA:2020:A:O5'	2.51	0.57
1:AA:2149:G:N1	1:AA:2150:U:O2	2.36	0.57
3:AD:28:GLU:HB3	3:AD:29:PRO:CD	2.34	0.57
4:AE:21:VAL:CG2	4:AE:185:LYS:HD2	2.34	0.57
4:AE:54:GLN:HE21	4:AE:54:GLN:CA	2.12	0.57
6:AG:83:ARG:CG	6:AG:86:MET:HE2	2.34	0.57
7:AH:4:ILE:H	7:AH:4:ILE:CD1	2.15	0.57
7:AH:117:PRO:HB3	7:AH:123:PHE:CE1	2.38	0.57
8:AK:133:HIS:O	8:AK:134:PRO:C	2.47	0.57
9:AM:94:HIS:C	9:AM:95:PRO:O	2.44	0.57
17:A2:22:VAL:HG12	17:A2:23:GLU:N	2.19	0.57
1:BA:270(N):G:O2'	1:BA:270(O):U:H5'	2.05	0.57
1:BA:535:C:C2'	1:BA:536:A:H5'	2.34	0.57
1:BA:1011:G:C6	1:BA:1013:C:N3	2.72	0.57
1:BA:1342:A:N1	1:BA:1397:U:C4	2.72	0.57
1:BA:1791:A:O2'	3:BD:207:GLY:HA2	2.05	0.57
1:BA:2154:G:O2'	1:BA:2155:G:H5'	2.04	0.57
1:BA:2232:U:P	23:BZ:40:ARG:HH12	2.27	0.57
3:BD:35:LYS:CG	3:BD:64:ILE:N	2.62	0.57
3:BD:35:LYS:HG2	3:BD:64:ILE:N	2.18	0.57
3:BD:236:GLY:O	3:BD:237:GLU:O	2.22	0.57
7:BH:89:ILE:O	7:BH:161:GLY:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BK:116:LEU:HD13	8:BK:128:LEU:HD21	1.86	0.57
22:B3:36:ILE:H	22:B3:36:ILE:CD1	2.17	0.57
27:B5:3:LYS:HG3	27:B5:4:HIS:H	1.68	0.57
28:B6:10:LEU:C	28:B6:11:LEU:HD22	2.29	0.57
28:B6:28:ARG:HG3	28:B6:31:PRO:HD2	1.85	0.57
31:CA:61:G:H2'	31:CA:62:U:O4'	2.04	0.57
31:CA:438:G:H4'	34:CG:123:HIS:ND1	2.18	0.57
31:CA:658:G:C4	31:CA:659:U:C5	2.92	0.57
35:CH:63:ARG:CA	35:CH:66:MET:HE2	2.28	0.57
36:CI:89:MET:HE3	48:CU:76:LEU:HD22	1.85	0.57
40:CM:42:THR:HG23	40:CM:67:THR:O	2.03	0.57
42:CO:42:PRO:HD3	42:CO:48:ALA:O	2.04	0.57
31:DA:1491:G:C5	56:DA:1805:PAR:H21	2.39	0.57
33:DF:35:GLU:HA	33:DF:38:ARG:NE	2.18	0.57
37:DJ:23:VAL:O	37:DJ:27:ILE:HG13	2.05	0.57
37:DJ:115:ARG:HB2	37:DJ:118:VAL:HG12	1.85	0.57
39:DL:48:GLU:N	39:DL:49:PRO:HD2	2.19	0.57
40:DM:7:LYS:C	40:DM:8:LEU:HD12	2.30	0.57
53:DD:21:U:H2'	53:DD:22:A:H5''	1.85	0.57
1:AA:26:G:C6	1:AA:27:G:N1	2.73	0.57
1:AA:612:G:H2'	1:AA:613:U:O2	2.04	0.57
1:AA:654(M):C:H3'	1:AA:654(N):G:C8	2.39	0.57
1:AA:944:G:N3	1:AA:944:G:C3'	2.68	0.57
1:AA:1015:G:C2'	1:AA:1016:G:H5'	2.35	0.57
1:AA:1665:A:H1'	10:AN:1:MET:HG3	1.86	0.57
1:AA:2774:C:H2'	1:AA:2775:A:O4'	2.04	0.57
1:AA:2857:G:N2	1:AA:2860:A:OP2	2.37	0.57
2:AB:13:A:N1	2:AB:69:G:O2'	2.31	0.57
6:AG:112:PRO:HB3	26:A4:37:SER:HB2	1.86	0.57
8:AK:37:VAL:HG22	8:AK:38:LEU:H	1.69	0.57
14:AQ:30:ARG:O	14:AQ:30:ARG:HG3	2.02	0.57
21:AV:142:SER:HB3	21:AV:143:GLY:C	2.29	0.57
26:A4:57:GLU:O	26:A4:60:GLN:HB2	2.04	0.57
30:A8:34:TRP:CG	30:A8:35:GLN:H	2.22	0.57
30:A8:34:TRP:CD1	30:A8:35:GLN:N	2.71	0.57
30:A8:57:ARG:O	30:A8:61:LEU:HG	2.04	0.57
1:BA:1826:G:H2'	1:BA:1827:C:H6	1.68	0.57
1:BA:2209:C:O2	1:BA:2216:G:C2	2.58	0.57
5:BF:107:LYS:HE2	5:BF:205:ARG:CD	2.33	0.57
6:BG:75:LYS:O	6:BG:76:SER:HB2	2.03	0.57
7:BH:166:GLY:O	7:BH:167:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BK:14:ASP:N	8:BK:17:GLN:OE1	2.33	0.57
17:B2:71:LEU:CA	17:B2:86:GLY:CA	2.80	0.57
31:CA:562:C:C4	31:CA:884:U:C5	2.92	0.57
31:CA:1016:A:H2'	31:CA:1017:G:O4'	2.04	0.57
32:CE:17:PHE:HA	32:CE:42:ILE:CG2	2.35	0.57
33:CF:6:HIS:CD2	33:CF:7:PRO:HD2	2.39	0.57
33:CF:78:GLY:HA3	33:CF:83:ARG:HB3	1.86	0.57
52:CB:68:A:H2'	52:CB:69:A:H5'	1.86	0.57
53:CD:13:C:O2'	53:CD:14:A:OP2	2.22	0.57
31:DA:7:G:H5'	31:DA:298:A:O4'	2.04	0.57
31:DA:510:A:H5''	31:DA:511:C:OP2	2.03	0.57
31:DA:1127:G:C2	31:DA:1145:C:C2	2.93	0.57
33:DF:14:ILE:CG1	33:DF:15:THR:N	2.67	0.57
33:DF:58:GLU:HB2	33:DF:65:ALA:HB3	1.86	0.57
33:DF:73:PRO:HG3	33:DF:105:GLU:HB2	1.86	0.57
52:DB:48:C:O2'	52:DB:49:C:P	2.62	0.57
1:AA:184:C:H2'	1:AA:185:U:C6	2.39	0.57
1:AA:1980:G:O2'	1:AA:1982:C:OP2	2.21	0.57
1:AA:2292:C:C2'	1:AA:2293:C:H5'	2.35	0.57
2:AB:95:U:C2	2:AB:96:G:C8	2.92	0.57
6:AG:145:THR:OG1	6:AG:148:MET:HG2	2.04	0.57
8:AK:11:ASN:C	8:AK:12:LEU:HD13	2.30	0.57
11:AO:64:LYS:HD2	30:A8:25:MET:HE2	1.84	0.57
21:AV:58:VAL:CG1	21:AV:66:SER:HB3	2.35	0.57
21:AV:151:HIS:HD2	21:AV:168:GLU:HG3	1.69	0.57
30:A8:26:LYS:HE2	30:A8:47:LYS:HG2	1.86	0.57
1:BA:57:C:H2'	1:BA:58:G:O5'	2.04	0.57
1:BA:579:G:H2'	1:BA:580:C:C6	2.38	0.57
1:BA:1653:G:C6	13:B0:9:LYS:HB2	2.40	0.57
1:BA:2419:U:O4	30:B8:31:HIS:CD2	2.57	0.57
1:BA:2638:G:O2'	1:BA:2639:A:H8	1.87	0.57
1:BA:2749:A:N6	1:BA:2750:A:H62	2.01	0.57
3:BD:30:GLU:HG3	3:BD:63:ARG:CZ	2.34	0.57
11:BO:95:VAL:O	11:BO:95:VAL:HG23	2.04	0.57
13:B0:2:ARG:HG3	13:B0:3:HIS:H	1.69	0.57
21:BV:156:LYS:O	21:BV:157:LEU:HB2	2.03	0.57
22:B3:24:LYS:O	22:B3:25:ARG:HD3	2.04	0.57
31:CA:195:A:C5	31:CA:196:A:N1	2.72	0.57
31:CA:1329:A:N7	51:CX:7:ARG:NH2	2.52	0.57
33:CF:7:PRO:O	33:CF:11:ARG:HG2	2.04	0.57
38:CK:9:MET:HG3	38:CK:26:VAL:HG21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CP:39:ILE:CD1	43:CP:52:GLU:HB3	2.35	0.57
31:DA:827:U:H5''	31:DA:828:A:OP2	2.04	0.57
31:DA:954:G:H2'	31:DA:955:U:C6	2.39	0.57
31:DA:1040:U:H2'	31:DA:1041:A:C8	2.40	0.57
31:DA:1095:U:H5''	31:DA:1109:C:O2	2.04	0.57
32:DE:137:ARG:HD3	32:DE:137:ARG:C	2.29	0.57
37:DJ:20:ASP:HB3	37:DJ:23:VAL:CG2	2.32	0.57
41:DN:54:ARG:HH11	41:DN:54:ARG:HG2	1.70	0.57
49:DV:67:VAL:HG12	49:DV:68:GLY:N	2.17	0.57
1:AA:1077:A:H3'	1:AA:1078:U:H5'	1.83	0.57
1:AA:1386:C:H2'	1:AA:1387:C:C6	2.40	0.57
1:AA:1568:G:H5''	3:AD:61:LEU:HD22	1.85	0.57
1:AA:2392:A:H2	1:AA:2424:C:H42	1.51	0.57
12:AP:27:VAL:HG23	12:AP:138:ASP:CG	2.30	0.57
14:AQ:106:ARG:CA	14:AQ:110:LEU:HD21	2.34	0.57
15:AR:26:ASP:O	15:AR:49:VAL:HG13	2.04	0.57
22:A3:17:GLN:HA	22:A3:17:GLN:HE21	1.69	0.57
1:BA:142:G:H2'	1:BA:143:C:H6	1.69	0.57
1:BA:602:G:O2'	1:BA:655:A:N6	2.36	0.57
1:BA:2233:U:H2'	1:BA:2234:G:C8	2.40	0.57
2:BB:91:C:O5'	2:BB:91:C:H6	1.88	0.57
4:BE:116:VAL:O	4:BE:117:MET:CB	2.42	0.57
5:BF:34:TRP:CE3	11:BO:8:PRO:HB3	2.39	0.57
16:B1:58:ARG:HG2	16:B1:62:ILE:HD13	1.86	0.57
23:BZ:92:LYS:O	23:BZ:95:LEU:N	2.26	0.57
30:B8:34:TRP:C	30:B8:36:LYS:N	2.62	0.57
31:CA:200:G:H1	31:CA:217:C:N4	2.01	0.57
31:CA:438:G:H8	31:CA:438:G:O5'	1.88	0.57
31:CA:636:U:H5'	47:CT:2:PRO:HG3	1.85	0.57
31:CA:939:G:H5''	37:CJ:102:ARG:NH2	2.20	0.57
31:CA:1118:C:P	39:CL:104:ARG:HH11	2.27	0.57
36:CI:86:ARG:O	36:CI:87:ARG:HG2	2.04	0.57
48:CU:58:LEU:HD22	48:CU:62:GLU:HB3	1.87	0.57
31:DA:6:G:H4'	31:DA:298:A:H4'	1.87	0.57
31:DA:516:U:O2'	31:DA:519:C:N3	2.35	0.57
31:DA:741:G:H2'	31:DA:742:G:O4'	2.05	0.57
31:DA:859:A:OP2	31:DA:869:G:N1	2.30	0.57
31:DA:1221:G:OP1	31:DA:1321:C:N4	2.36	0.57
32:DE:215:LEU:O	32:DE:219:VAL:HG12	2.04	0.57
35:DH:18:ARG:HG2	35:DH:25:ARG:O	2.03	0.57
47:DT:63:ARG:HG2	47:DT:64:PRO:CD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:88:G:O2'	1:AA:89:G:H5'	2.05	0.57
1:AA:207:A:H2'	1:AA:208:C:O4'	2.04	0.57
1:AA:297:C:H5''	20:AU:85:VAL:CG2	2.33	0.57
1:AA:1069:A:H4'	1:AA:1070:A:O5'	2.04	0.57
1:AA:1538:G:H2'	1:AA:1539:G:H8	1.70	0.57
1:AA:1570:A:H2'	1:AA:1571:A:C8	2.39	0.57
3:AD:25:THR:CG2	3:AD:26:LYS:N	2.68	0.57
9:AM:38:HIS:CE1	9:AM:50:ASP:OD2	2.58	0.57
15:AR:24:PRO:HA	15:AR:49:VAL:HG22	1.85	0.57
21:AV:108:PRO:HB2	21:AV:112:ARG:HB2	1.86	0.57
21:AV:111:VAL:HG11	21:AV:146:ILE:CB	2.33	0.57
22:A3:70:GLN:CD	22:A3:72:ARG:HD3	2.29	0.57
23:AZ:21:ARG:HD3	23:AZ:35:THR:HG21	1.86	0.57
30:A8:14:VAL:HG12	30:A8:60:LEU:HD11	1.84	0.57
1:BA:654(I):C:H42	1:BA:654(M):C:H42	1.53	0.57
1:BA:901:A:H2'	1:BA:901:A:N3	2.19	0.57
1:BA:1151:G:H5''	16:B1:81:HIS:CE1	2.40	0.57
1:BA:1187:G:H8	1:BA:1187:G:O5'	1.88	0.57
1:BA:1432:C:H2'	1:BA:1433:U:O4'	2.05	0.57
3:BD:31:LYS:O	3:BD:31:LYS:HG3	2.04	0.57
4:BE:119:ARG:HG2	4:BE:160:TYR:CG	2.40	0.57
5:BF:155:LEU:HD22	5:BF:185:ASP:O	2.05	0.57
6:BG:101:ILE:HD12	6:BG:102:PHE:N	2.19	0.57
21:BV:24:LEU:HD12	21:BV:25:PRO:O	2.04	0.57
21:BV:81:ARG:O	21:BV:81:ARG:HG3	2.04	0.57
23:BZ:85:LEU:HD13	23:BZ:88:LYS:HG3	1.86	0.57
26:B4:16:CYS:HB3	26:B4:19:GLY:CA	2.34	0.57
31:CA:1122:U:O4	31:CA:1123:A:N6	2.38	0.57
39:CL:5:TYR:HE2	39:CL:16:ARG:HG2	1.69	0.57
40:CM:48:THR:HG23	40:CM:62:HIS:HB3	1.86	0.57
46:CS:20:VAL:HG21	46:CS:32:TYR:CD1	2.39	0.57
52:CB:58:U:H5'	52:CB:59:U:OP2	2.05	0.57
31:DA:606:G:N2	31:DA:631:G:C2'	2.68	0.57
31:DA:757:U:H2'	31:DA:758:G:O4'	2.05	0.57
31:DA:827:U:H3	31:DA:872:A:N6	2.01	0.57
31:DA:1267:C:O2	31:DA:1267:C:C2'	2.51	0.57
31:DA:1346:A:C1'	31:DA:1347:G:OP2	2.52	0.57
37:DJ:85:TYR:CE1	37:DJ:154:TYR:CE1	2.93	0.57
39:DL:18:PHE:HD1	39:DL:62:TYR:CD2	2.20	0.57
39:DL:112:LYS:HD3	39:DL:113:LYS:O	2.05	0.57
44:DQ:37:PHE:CE1	44:DQ:53:LEU:HD22	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DD:59:A:O2'	53:DD:61:U:H5	1.86	0.57
1:AA:527:C:OP2	1:AA:2779:U:H5	1.88	0.57
1:AA:1063:G:H2'	1:AA:1064:C:H6	1.70	0.57
1:AA:1533:C:H2'	1:AA:1534:G:H8	1.67	0.57
1:AA:1535:U:C2	1:AA:1536:A:H3'	2.40	0.57
1:AA:2212:A:N3	1:AA:2215:G:N1	2.53	0.57
1:AA:2577:A:H5''	1:AA:2578:G:H5'	1.86	0.57
3:AD:35:LYS:CE	3:AD:104:TYR:CD1	2.88	0.57
7:AH:163:TYR:N	7:AH:163:TYR:CD1	2.73	0.57
24:AW:47:ASN:ND2	24:AW:47:ASN:H	2.00	0.57
1:BA:221:A:C8	1:BA:266:G:C6	2.92	0.57
1:BA:751:A:H5'	18:BS:90:ARG:HA	1.86	0.57
1:BA:1088:A:H5'	1:BA:1089:G:H5'	1.87	0.57
1:BA:1174:A:C6	1:BA:1175:U:O2'	2.58	0.57
1:BA:1204:A:C2	1:BA:1241:A:N1	2.73	0.57
1:BA:1264:G:H2'	1:BA:2014:A:N6	2.19	0.57
1:BA:2307:G:O2'	1:BA:2308:G:C8	2.58	0.57
2:BB:66:A:N6	2:BB:108:C:H5''	2.12	0.57
2:BB:93:C:O2'	2:BB:94:C:H5'	2.04	0.57
3:BD:70:TRP:C	3:BD:70:TRP:CD1	2.82	0.57
4:BE:23:VAL:O	4:BE:24:THR:OG1	2.14	0.57
6:BG:7:LEU:HB2	6:BG:104:GLU:OE1	2.04	0.57
6:BG:111:LEU:HB3	6:BG:117:PHE:CE2	2.40	0.57
12:BP:59:ARG:HH21	12:BP:59:ARG:CG	2.12	0.57
12:BP:66:ILE:HD12	12:BP:68:ILE:O	2.04	0.57
17:B2:83:ARG:O	17:B2:84:LYS:HB3	2.05	0.57
21:BV:105:VAL:HG22	21:BV:106:GLY:N	2.18	0.57
24:BW:15:LYS:HD3	24:BW:67:LYS:HZ1	1.70	0.57
26:B4:56:VAL:HA	26:B4:60:GLN:NE2	2.18	0.57
31:CA:186(C):G:C6	31:CA:191(E):G:C2	2.93	0.57
31:CA:375:U:O3'	46:CS:6:LEU:HB2	2.05	0.57
31:CA:474:G:H2'	31:CA:475:G:H8	1.68	0.57
31:CA:1156:G:H2'	31:CA:1157:A:H5''	1.87	0.57
31:CA:1157:A:N3	31:CA:1157:A:H2'	2.20	0.57
32:CE:120:ALA:O	32:CE:121:LEU:HB2	2.05	0.57
37:CJ:31:MET:SD	37:CJ:34:GLY:HA2	2.45	0.57
41:CN:91:ARG:HG3	41:CN:91:ARG:NH1	2.14	0.57
49:CV:40:ILE:HG12	49:CV:41:VAL:HG22	1.87	0.57
50:CW:23:ARG:O	50:CW:27:LYS:N	2.38	0.57
53:CD:31:G:H2'	53:CD:32:G:C8	2.40	0.57
53:CD:41:C:H2'	53:CD:42:C:H6	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DE:114:ARG:O	32:DE:118:LEU:HG	2.04	0.57
35:DH:110:LEU:O	35:DH:115:VAL:HG22	2.05	0.57
35:DH:147:ASP:HA	35:DH:150:ARG:HB2	1.85	0.57
37:DJ:72:ARG:NH2	37:DJ:96:GLN:HE22	2.01	0.57
49:DV:31:ILE:HG13	49:DV:32:LYS:N	2.19	0.57
1:AA:780:G:H21	1:AA:783:A:N6	1.91	0.57
1:AA:2555:U:O2	52:CB:85:C:C5	2.58	0.57
2:AB:66:A:H61	2:AB:107:U:H2'	1.69	0.57
3:AD:89:SER:HB2	3:AD:159:ALA:CB	2.32	0.57
4:AE:52:LEU:O	4:AE:75:VAL:HG22	2.04	0.57
8:AK:8:PRO:O	8:AK:9:LEU:HD13	2.05	0.57
10:AN:4:PRO:O	10:AN:5:GLN:HB2	2.03	0.57
12:AP:66:ILE:HD12	12:AP:68:ILE:N	2.19	0.57
15:AR:108:ARG:O	15:AR:111:ARG:HB2	2.05	0.57
21:AV:110:GLY:O	21:AV:111:VAL:HG22	2.04	0.57
23:AZ:86:SER:N	23:AZ:87:PRO:CD	2.67	0.57
24:AW:45:SER:O	24:AW:46:GLN:NE2	2.37	0.57
29:A7:8:ASN:ND2	29:A7:8:ASN:C	2.62	0.57
1:BA:127:A:H5''	1:BA:128:C:C6	2.40	0.57
1:BA:259:G:O2'	1:BA:621:A:O2'	2.10	0.57
1:BA:320:A:H4'	1:BA:322:A:N7	2.19	0.57
1:BA:755:C:H2'	1:BA:756:C:C6	2.40	0.57
1:BA:902:C:H2'	1:BA:903:C:C6	2.40	0.57
1:BA:1019:U:O2'	1:BA:1021:A:C2	2.56	0.57
1:BA:1058:U:O2	1:BA:1080:A:N1	2.38	0.57
1:BA:1278:A:H4'	13:B0:34:ILE:HD11	1.87	0.57
1:BA:1342:A:C2	1:BA:1602:U:N3	2.72	0.57
1:BA:1653:G:H4'	1:BA:1654:A:O5'	2.05	0.57
1:BA:1657:C:H2'	1:BA:1658:C:C6	2.40	0.57
1:BA:1754:C:H5''	15:BR:113:LYS:HE2	1.85	0.57
1:BA:2615:U:H2'	1:BA:2616:C:H6	1.69	0.57
1:BA:2820:A:C5	13:B0:4:LEU:HD11	2.39	0.57
3:BD:242:ARG:CD	3:BD:242:ARG:H	2.18	0.57
4:BE:32:PRO:HA	4:BE:90:THR:H	1.69	0.57
7:BH:127:GLU:CG	7:BH:128:PRO:HD2	2.20	0.57
8:BK:78:THR:CG2	8:BK:104:GLN:HE22	2.18	0.57
12:BP:79:LEU:CD1	12:BP:80:GLU:HB2	2.35	0.57
15:BR:51:ARG:HG2	15:BR:98:LYS:HE3	1.87	0.57
17:B2:21:ARG:HD3	17:B2:91:TYR:HB3	1.85	0.57
22:B3:72:ARG:HB3	22:B3:75:LEU:HB2	1.85	0.57
24:BW:41:ILE:CD1	24:BW:44:LEU:HG	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BX:5:LYS:HE3	25:BX:59:VAL:HG21	1.87	0.57
26:B4:38:LYS:C	26:B4:40:HIS:H	2.11	0.57
26:B4:56:VAL:HA	26:B4:60:GLN:HG2	1.85	0.57
31:CA:170:U:O2'	31:CA:171:A:H5'	2.05	0.57
31:CA:996:A:H8	31:CA:996:A:O5'	1.88	0.57
43:CP:19:LEU:O	43:CP:22:ILE:HG12	2.05	0.57
45:CR:8:LYS:O	45:CR:12:ILE:HG13	2.05	0.57
48:CU:22:VAL:HA	48:CU:25:THR:OG1	2.05	0.57
50:CW:26:ASN:HD22	50:CW:26:ASN:H	1.52	0.57
52:CB:27:G:H5''	52:CB:28:C:H5	1.69	0.57
53:CC:20:G:C2	53:CC:58:A:C2	2.93	0.57
31:DA:87:A:H2'	31:DA:87:A:N3	2.20	0.57
31:DA:436:C:H2'	31:DA:437:U:H6	1.68	0.57
31:DA:629:G:H2'	31:DA:630:G:C8	2.40	0.57
31:DA:631:G:H5''	31:DA:632:A:C8	2.39	0.57
31:DA:1145:C:H5'	31:DA:1146:A:OP1	2.04	0.57
32:DE:63:MET:HG3	32:DE:225:ALA:HB1	1.87	0.57
32:DE:219:VAL:O	32:DE:222:ILE:HB	2.04	0.57
33:DF:59:ARG:HG3	33:DF:64:VAL:HA	1.87	0.57
33:DF:137:ALA:O	33:DF:141:VAL:HG23	2.05	0.57
36:DI:33:TYR:HE1	36:DI:78:GLU:HG3	1.69	0.57
44:DQ:26:ARG:HH12	44:DQ:47:LEU:HD21	1.68	0.57
46:DS:19:ILE:HB	46:DS:36:ILE:O	2.04	0.57
49:DV:23:ASN:HA	49:DV:27:GLU:CD	2.30	0.57
1:AA:138:G:N2	19:AT:44:GLU:OE2	2.31	0.57
1:AA:270(M):U:O2'	1:AA:270(N):G:O5'	2.18	0.57
1:AA:547:A:C3'	1:AA:548:A:C8	2.88	0.57
1:AA:602:G:O2'	1:AA:604:G:O2'	2.19	0.57
1:AA:654(N):G:H2'	1:AA:654(O):G:C8	2.40	0.57
1:AA:1063:G:H22	1:AA:1076:C:H1'	1.70	0.57
1:AA:1287:A:N7	13:A0:107:ASP:CB	2.61	0.57
1:AA:1973:G:H2'	1:AA:1974:C:H6	1.70	0.57
3:AD:72:LYS:HD3	3:AD:97:TYR:CD2	2.40	0.57
4:AE:14:ILE:CG2	4:AE:15:PHE:N	2.43	0.57
4:AE:46:ALA:CB	4:AE:82:ARG:HA	2.35	0.57
4:AE:60:ASN:N	4:AE:60:ASN:HD22	2.02	0.57
5:AF:40:GLN:NE2	5:AF:183:VAL:HG13	2.19	0.57
6:AG:39:ILE:HG13	6:AG:94:LEU:HD21	1.86	0.57
7:AH:9:ILE:HG21	7:AH:49:VAL:HB	1.86	0.57
11:AO:9:ASN:O	11:AO:10:PRO:C	2.48	0.57
1:BA:1061:U:H4'	1:BA:1070:A:C1'	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2069:G:H2'	1:BA:2070:G:H5'	1.87	0.57
1:BA:2799:A:H2'	1:BA:2801:A:C4	2.39	0.57
2:BB:40:U:H3'	2:BB:41:U:H5'	1.87	0.57
5:BF:29:ASN:H	5:BF:112:MET:CE	2.17	0.57
6:BG:82:LEU:HD23	6:BG:86:MET:HG2	1.85	0.57
6:BG:107:LEU:HD13	6:BG:177:GLY:O	2.04	0.57
22:B3:23:VAL:HG12	22:B3:25:ARG:O	2.04	0.57
26:B4:48:ARG:NH1	26:B4:51:ASP:HB3	2.19	0.57
31:CA:411:A:C4	31:CA:413:G:H1'	2.40	0.57
31:CA:475:G:H2'	31:CA:476:G:C8	2.39	0.57
32:CE:14:GLY:HA3	32:CE:209:ARG:NH2	2.18	0.57
32:CE:29:ALA:O	32:CE:32:ILE:HG22	2.04	0.57
34:CG:101:LEU:O	34:CG:105:VAL:HG23	2.04	0.57
34:CG:196:LEU:HB3	34:CG:197:PRO:HD2	1.86	0.57
36:CI:3:ARG:HA	36:CI:65:VAL:O	2.04	0.57
38:CK:11:THR:HG23	38:CK:14:ARG:HH12	1.68	0.57
38:CK:102:ARG:HB3	38:CK:102:ARG:NH1	2.20	0.57
31:DA:945:G:H2'	31:DA:945:G:N3	2.19	0.57
31:DA:1137:C:H5''	31:DA:1138:G:OP1	2.05	0.57
31:DA:1207:G:O2'	31:DA:1208:C:H5'	2.05	0.57
32:DE:75:LYS:O	32:DE:78:GLN:HG2	2.04	0.57
39:DL:42:ARG:HD3	39:DL:71:SER:OG	2.05	0.57
1:AA:120:U:C5	1:AA:149:A:N6	2.73	0.56
1:AA:1444:G:C2	1:AA:1548:C:N3	2.73	0.56
4:AE:59:VAL:O	4:AE:59:VAL:CG1	2.53	0.56
8:AK:7:GLU:O	8:AK:9:LEU:HD22	2.04	0.56
9:AM:1:MET:CE	16:A1:95:LEU:HD21	2.22	0.56
14:AQ:23:ARG:NH1	14:AQ:85:VAL:O	2.37	0.56
20:AU:78:ALA:HB3	20:AU:81:LYS:HE3	1.86	0.56
21:AV:107:THR:C	21:AV:109:ALA:N	2.62	0.56
1:BA:196:A:OP2	11:BO:46:LYS:NZ	2.38	0.56
1:BA:226:G:N2	1:BA:228:A:H62	1.81	0.56
1:BA:270(L):U:H3	8:BK:50:ARG:NH1	2.02	0.56
1:BA:987:G:O2'	1:BA:1000:A:N3	2.36	0.56
1:BA:1181:C:O2'	1:BA:1182:A:H5'	2.05	0.56
1:BA:1266:G:O5'	18:BS:15:ARG:NH2	2.38	0.56
1:BA:1418:G:H8	1:BA:1418:G:O5'	1.88	0.56
1:BA:1442:G:H2'	1:BA:1443:G:H5''	1.87	0.56
1:BA:1677:A:H2'	1:BA:1678:G:C8	2.40	0.56
1:BA:2129:C:N4	1:BA:2130:U:O4	2.38	0.56
1:BA:2473:U:O2	1:BA:2473:U:C2'	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:56:PRO:CA	4:BE:57:LYS:CD	2.72	0.56
4:BE:68:ALA:C	4:BE:70:ALA:H	2.13	0.56
5:BF:110:LEU:HD21	5:BF:181:LEU:HD22	1.86	0.56
6:BG:42:GLY:O	6:BG:43:LEU:HD13	2.05	0.56
6:BG:88:ILE:HD13	6:BG:88:ILE:O	2.05	0.56
18:BS:20:VAL:HG22	18:BS:47:VAL:HG21	1.86	0.56
28:B6:35:GLU:HB2	28:B6:51:GLU:HB2	1.86	0.56
31:CA:10:A:OP2	35:CH:126:ARG:HD3	2.04	0.56
31:CA:1227:A:OP2	43:CP:111:LYS:HE2	2.05	0.56
37:CJ:13:GLN:O	37:CJ:24:THR:HG21	2.05	0.56
47:CT:66:SER:O	47:CT:70:ARG:NH1	2.38	0.56
52:CB:1:G:H2'	52:CB:1:G:N3	2.18	0.56
53:CD:59:A:O2'	53:CD:61:U:H5	1.88	0.56
31:DA:186:C:H42	31:DA:191:G:H1	1.52	0.56
31:DA:1119:C:OP2	39:DL:9:ARG:NH2	2.37	0.56
31:DA:1297:C:C1'	31:DA:1298:C:OP2	2.52	0.56
31:DA:1403:C:O2'	31:DA:1404:C:H5'	2.05	0.56
32:DE:136:VAL:O	32:DE:139:LYS:HB3	2.05	0.56
33:DF:9:GLY:HA3	44:DQ:49:HIS:HA	1.86	0.56
1:AA:613:U:O2	1:AA:613:U:O5'	2.22	0.56
1:AA:2393:A:O3'	11:AO:62:LEU:HA	2.05	0.56
2:AB:13:A:H2'	2:AB:70:C:O2'	2.05	0.56
10:AN:64:ARG:NH1	10:AN:83:ALA:HB2	2.20	0.56
11:AO:126:VAL:HG13	11:AO:145:PRO:HB2	1.87	0.56
13:A0:21:TYR:OH	13:A0:43:GLU:HG2	2.04	0.56
13:A0:92:GLY:N	13:A0:94:TYR:CE2	2.73	0.56
1:BA:162:U:H4'	1:BA:171:G:C8	2.40	0.56
1:BA:531:C:OP1	1:BA:561:G:N2	2.38	0.56
1:BA:547:A:N7	1:BA:548:A:N6	2.54	0.56
1:BA:890:A:H2'	1:BA:892:G:N7	2.19	0.56
1:BA:1346:G:C5	1:BA:1347:G:N7	2.73	0.56
1:BA:1405:U:H2'	1:BA:1406:U:H6	1.63	0.56
1:BA:1651:G:N2	1:BA:2007:C:C2	2.72	0.56
1:BA:1784:A:H4'	1:BA:1785:A:C5'	2.36	0.56
1:BA:1829:A:N3	3:BD:15:PHE:HE1	2.03	0.56
1:BA:2092:U:H4'	1:BA:2093:G:O5'	2.05	0.56
1:BA:2277:G:OP1	12:BP:86:GLY:HA2	2.06	0.56
1:BA:2335:A:C8	1:BA:2337:G:C5	2.93	0.56
1:BA:2681:C:O2	1:BA:2681:C:H2'	2.04	0.56
1:BA:2682:U:C5	4:BE:11:MET:HE2	2.40	0.56
1:BA:2875:C:O2'	15:BR:3:ARG:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:9:TYR:CD2	3:BD:10:THR:HG23	2.40	0.56
5:BF:29:ASN:O	5:BF:112:MET:HE1	2.05	0.56
6:BG:16:ARG:HH21	6:BG:31:VAL:HG13	1.70	0.56
7:BH:25:LYS:O	7:BH:25:LYS:HG3	2.06	0.56
11:BO:55:ARG:O	11:BO:57:THR:N	2.38	0.56
21:BV:110:GLY:HA2	21:BV:144:LEU:O	2.05	0.56
22:B3:72:ARG:CB	22:B3:75:LEU:HB2	2.35	0.56
23:BZ:91:LYS:O	23:BZ:92:LYS:C	2.47	0.56
25:BX:29:ARG:H	25:BX:33:GLN:NE2	1.99	0.56
25:BX:29:ARG:N	25:BX:33:GLN:HE22	2.01	0.56
31:CA:8:A:N7	34:CG:208:SER:OG	2.37	0.56
31:CA:1054:C:O2'	31:CA:1055:A:O5'	2.19	0.56
31:CA:1442:G:O6	31:CA:1446:A:N6	2.38	0.56
32:CE:165:VAL:HG23	32:CE:166:ASP:H	1.67	0.56
35:CH:99:GLY:O	35:CH:117:ASP:HA	2.05	0.56
39:CL:4:TYR:CD1	39:CL:88:TYR:HB2	2.40	0.56
44:CQ:29:ARG:HG2	44:CQ:40:CYS:HB3	1.85	0.56
49:CV:51:VAL:O	49:CV:57:HIS:HA	2.05	0.56
53:CD:42:C:H2'	53:CD:43:G:C8	2.40	0.56
31:DA:512:U:H2'	31:DA:513:C:H6	1.69	0.56
31:DA:540:G:H2'	31:DA:541:G:O4'	2.04	0.56
31:DA:1054:C:O2'	31:DA:1055:A:O5'	2.23	0.56
31:DA:1085:U:H3'	31:DA:1086:U:C6	2.41	0.56
31:DA:1213:A:N1	31:DA:1215:G:H1'	2.20	0.56
1:AA:34:C:O2'	1:AA:35:G:P	2.62	0.56
1:AA:192:C:H2'	1:AA:193:U:H5'	1.88	0.56
1:AA:540:G:H3'	1:AA:541:C:H6	1.70	0.56
1:AA:760:G:C2'	1:AA:761:A:H5'	2.35	0.56
1:AA:1001:A:H2'	1:AA:1002:G:O4'	2.06	0.56
1:AA:1204:A:H61	1:AA:1240:U:H2'	1.71	0.56
1:AA:1228:G:OP1	16:A1:13:LYS:HD2	2.05	0.56
1:AA:1357:U:H2'	1:AA:1358:G:O4'	2.05	0.56
1:AA:1379:A:C1'	1:AA:1380:G:OP1	2.52	0.56
1:AA:1469:A:H2'	1:AA:1470:G:O5'	2.06	0.56
1:AA:1668:A:N3	1:AA:1670:C:C4	2.73	0.56
1:AA:2135:A:N6	1:AA:2156:G:O2'	2.32	0.56
1:AA:2164:C:H2'	1:AA:2165:G:C8	2.40	0.56
1:AA:2394:C:N3	53:CD:77:A:O2'	2.34	0.56
1:AA:2615:U:H2'	1:AA:2616:C:C6	2.38	0.56
1:AA:2712:U:O2'	1:AA:2713:A:H5'	2.04	0.56
1:AA:2801:A:OP1	1:AA:2895:U:O2'	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2821:A:C2	1:AA:2822:G:C4	2.93	0.56
2:AB:0:A:H2'	2:AB:1:U:C6	2.40	0.56
3:AD:75:ILE:HD13	3:AD:99:ASP:OD1	2.05	0.56
3:AD:270:ILE:O	3:AD:271:ILE:HD13	2.06	0.56
5:AF:64:ILE:O	5:AF:65:TRP:HD1	1.88	0.56
8:AK:101:LEU:HD21	8:AK:107:VAL:HB	1.87	0.56
11:AO:94:GLU:O	11:AO:124:LYS:O	2.24	0.56
12:AP:29:PHE:CD2	12:AP:65:PHE:CE1	2.94	0.56
15:AR:121:ILE:O	15:AR:123:GLN:O	2.23	0.56
21:AV:111:VAL:HG21	21:AV:146:ILE:HG13	1.87	0.56
1:BA:90:U:H2'	1:BA:91:A:H5''	1.85	0.56
1:BA:182:A:H2	1:BA:433:C:O2	1.88	0.56
1:BA:207:A:H2'	1:BA:208:C:O4'	2.05	0.56
1:BA:340:A:H2'	1:BA:341:G:H5'	1.87	0.56
1:BA:528:A:H2	1:BA:2043:C:C5'	2.14	0.56
1:BA:530:G:O6	1:BA:2023:G:OP1	2.24	0.56
1:BA:609(A):G:H22	1:BA:619:G:H1'	1.65	0.56
1:BA:636:G:N7	11:BO:113:LYS:HE2	2.19	0.56
1:BA:1007:C:OP1	9:BM:35:ARG:NH1	2.38	0.56
1:BA:1012:U:C5	9:BM:28:THR:HG21	2.39	0.56
1:BA:1019:U:H2'	1:BA:1020:A:H8	1.71	0.56
1:BA:1057:A:H61	1:BA:1080:A:N6	2.03	0.56
1:BA:1140:C:H1'	1:BA:1143:A:C8	2.27	0.56
1:BA:1183:G:H4'	25:BX:29:ARG:NH2	2.20	0.56
1:BA:1248:G:C5	16:B1:3:ARG:HB2	2.40	0.56
1:BA:1967:C:H2'	1:BA:1968:G:C5'	2.34	0.56
1:BA:1971:A:C4	3:BD:241:PRO:HD3	2.40	0.56
1:BA:2139:C:H2'	1:BA:2140:C:H5'	1.86	0.56
1:BA:2752:C:O4'	1:BA:2752:C:OP2	2.23	0.56
3:BD:35:LYS:HE3	3:BD:65:ILE:HA	1.88	0.56
4:BE:11:MET:HE3	4:BE:186:GLY:HA2	1.87	0.56
6:BG:138:GLN:NE2	6:BG:153:ARG:HB2	2.20	0.56
6:BG:145:THR:HG23	26:B4:28:LYS:HE2	1.87	0.56
7:BH:144:VAL:O	7:BH:148:ILE:HG12	2.05	0.56
17:B2:27:ALA:O	17:B2:64:HIS:HE1	1.87	0.56
20:BU:84:ARG:HH21	20:BU:97:ARG:HB2	1.71	0.56
30:B8:51:ALA:O	30:B8:53:PRO:HD2	2.01	0.56
31:CA:162:A:H3'	31:CA:163:C:C5'	2.35	0.56
31:CA:200:G:N2	31:CA:218:C:C2	2.73	0.56
31:CA:232:G:H2'	31:CA:233:C:H6	1.70	0.56
31:CA:542:G:H5'	34:CG:41:GLY:HA3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:719:C:OP2	31:CA:720:C:N4	2.34	0.56
31:CA:972:C:O2'	40:CM:55:LYS:HG3	2.04	0.56
32:CE:47:THR:O	32:CE:51:LEU:HB2	2.05	0.56
32:CE:61:LEU:HD23	32:CE:68:ILE:CD1	2.34	0.56
32:CE:74:LYS:HG2	32:CE:169:LYS:HD3	1.86	0.56
32:CE:112:VAL:O	32:CE:115:LEU:N	2.38	0.56
32:CE:239:VAL:O	32:CE:240:GLN:HG2	2.05	0.56
33:CF:21:ARG:N	33:CF:21:ARG:HD3	2.20	0.56
39:CL:118:LYS:O	39:CL:119:ALA:HB3	2.04	0.56
40:CM:24:VAL:HG21	40:CM:37:PRO:HD3	1.86	0.56
40:CM:32:ALA:CB	40:CM:76:ASN:HB2	2.35	0.56
40:CM:48:THR:HG23	40:CM:62:HIS:CG	2.40	0.56
40:CM:78:ASN:O	40:CM:81:THR:OG1	2.24	0.56
45:CR:43:LEU:CD1	45:CR:56:LEU:HD23	2.35	0.56
53:CD:5:G:H1	53:CD:69:C:N4	2.02	0.56
31:DA:353:A:H2'	31:DA:354:G:OP2	2.05	0.56
31:DA:559:A:H4'	31:DA:560:U:H5''	1.88	0.56
31:DA:631:G:H3'	31:DA:632:A:H8	1.68	0.56
31:DA:878:G:H5'	38:DK:89:PRO:HG2	1.85	0.56
31:DA:1014:A:H4'	49:DV:14:HIS:CE1	2.40	0.56
31:DA:1175:G:C2	31:DA:1176:A:C5	2.93	0.56
31:DA:1216:G:H2'	31:DA:1217:C:C6	2.40	0.56
31:DA:1438:G:H2'	31:DA:1439:C:H6	1.70	0.56
33:DF:64:VAL:CG2	33:DF:66:VAL:HG23	2.35	0.56
33:DF:98:ASN:C	33:DF:98:ASN:HD22	2.12	0.56
34:DG:3:ARG:HD2	34:DG:118:ARG:HD3	1.87	0.56
36:DI:76:ALA:HB1	36:DI:80:ARG:NH2	2.21	0.56
38:DK:111:ILE:C	38:DK:112:LEU:HD23	2.30	0.56
45:DR:70:LEU:HD11	45:DR:77:ARG:HG3	1.87	0.56
49:DV:80:TYR:CE1	49:DV:82:GLY:HA2	2.40	0.56
53:DD:50:G:N2	53:DD:67:C:H1'	2.21	0.56
53:DD:53:G:H1	53:DD:63:C:N4	2.02	0.56
1:AA:1798:U:H5''	3:AD:259:THR:CG2	2.36	0.56
1:AA:1833:U:H2'	1:AA:1834:U:H6	1.69	0.56
1:AA:2037:G:H2'	1:AA:2038:G:C8	2.40	0.56
1:AA:2271:G:OP1	22:A3:18:ALA:HB1	2.05	0.56
1:AA:2409:G:H2'	1:AA:2410:G:O4'	2.05	0.56
1:AA:2884:U:H2'	1:AA:2885:C:H5'	1.86	0.56
2:AB:15:A:C4'	2:AB:15:A:OP1	2.54	0.56
4:AE:111:ARG:HD2	4:AE:160:TYR:HE1	1.63	0.56
7:AH:9:ILE:CG2	7:AH:49:VAL:HB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:115:VAL:HG11	7:AH:148:ILE:HG12	1.87	0.56
7:AH:153:LYS:HZ2	7:AH:153:LYS:HA	1.69	0.56
9:AM:46:VAL:O	9:AM:47:ALA:HB3	2.04	0.56
14:AQ:66:ALA:O	14:AQ:69:VAL:HG13	2.05	0.56
16:A1:112:ARG:HG3	16:A1:112:ARG:NH1	2.18	0.56
17:A2:35:LEU:HD22	17:A2:35:LEU:N	2.18	0.56
18:AS:17:VAL:HG12	18:AS:76:VAL:HG11	1.87	0.56
1:BA:343:C:O2'	1:BA:344:G:H5'	2.05	0.56
1:BA:921:G:H2'	1:BA:922:U:H6	1.70	0.56
1:BA:1019:U:OP1	1:BA:1035:U:O2'	2.22	0.56
1:BA:1385:G:C4	1:BA:1386:C:C5	2.93	0.56
2:BB:88:C:C6	2:BB:89:G:C8	2.94	0.56
6:BG:109:VAL:HG13	26:B4:33:VAL:CG1	2.35	0.56
13:B0:104:ARG:HB2	13:B0:107:ASP:OD2	2.05	0.56
16:B1:98:LEU:C	16:B1:100:VAL:N	2.63	0.56
18:BS:1:MET:HE2	18:BS:62:HIS:CD2	2.41	0.56
18:BS:12:ILE:HD13	18:BS:17:VAL:HG13	1.87	0.56
33:CF:68:VAL:HG12	33:CF:70:VAL:HG23	1.85	0.56
36:CI:99:ALA:C	36:CI:101:ALA:H	2.13	0.56
40:CM:78:ASN:HB2	40:CM:81:THR:HG23	1.88	0.56
31:DA:1126:U:H1'	31:DA:1127:G:OP2	2.05	0.56
31:DA:1129:C:N4	31:DA:1139:G:C2	2.73	0.56
34:DG:9:CYS:O	34:DG:12:CYS:HB2	2.05	0.56
34:DG:31:CYS:O	34:DG:32:ALA:HB3	2.06	0.56
35:DH:51:VAL:O	35:DH:55:VAL:HG23	2.05	0.56
48:DU:29:PHE:HD1	48:DU:39:VAL:CG1	2.18	0.56
1:AA:10:G:C2	1:AA:2629:A:C2	2.94	0.56
1:AA:154:G:H2'	1:AA:155:C:O4'	2.06	0.56
1:AA:2219:G:H2'	1:AA:2224:G:C5'	2.35	0.56
1:AA:2276:G:OP2	12:AP:84:GLY:HA2	2.06	0.56
1:AA:2840:C:H4'	13:A0:53:HIS:CE1	2.41	0.56
3:AD:270:ILE:CG2	3:AD:271:ILE:H	2.11	0.56
4:AE:84:PHE:CZ	4:AE:86:PRO:HB3	2.40	0.56
15:AR:93:ARG:HH11	15:AR:93:ARG:CG	2.16	0.56
17:A2:35:LEU:HB2	17:A2:37:VAL:CG2	2.35	0.56
23:AZ:8:SER:OG	23:AZ:10:LYS:HG3	2.06	0.56
1:BA:911:A:C5	12:BP:9:TYR:CD2	2.93	0.56
1:BA:975:G:H1'	1:BA:990:A:C2	2.41	0.56
1:BA:1385:G:N3	1:BA:1386:C:C5	2.74	0.56
1:BA:2144:U:O2'	1:BA:2145:C:H5	1.89	0.56
1:BA:2681:C:C6	1:BA:2683:C:N4	2.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:13:ARG:HA	4:BE:21:VAL:O	2.05	0.56
4:BE:25:VAL:CG1	4:BE:26:ILE:H	2.07	0.56
5:BF:203:GLN:O	5:BF:206:ILE:O	2.24	0.56
6:BG:16:ARG:NH2	6:BG:28:VAL:O	2.38	0.56
12:BP:68:ILE:HG23	12:BP:103:MET:HB3	1.87	0.56
14:BQ:35:ILE:HG22	14:BQ:97:ARG:HH21	1.71	0.56
15:BR:91:ARG:O	15:BR:116:ALA:HA	2.05	0.56
15:BR:118:ARG:CZ	31:DA:1446:A:C6	2.88	0.56
21:BV:131:ARG:HD2	21:BV:131:ARG:N	2.19	0.56
24:BW:37:PHE:O	24:BW:41:ILE:HG23	2.05	0.56
31:CA:437:U:H5''	34:CG:155:LEU:HD22	1.87	0.56
31:CA:474:G:H2'	31:CA:475:G:C8	2.41	0.56
31:CA:1004:A:C5'	31:CA:1025:U:C4	2.86	0.56
32:CE:15:VAL:C	32:CE:16:HIS:ND1	2.64	0.56
38:CK:114:THR:HG22	38:CK:130:GLY:C	2.31	0.56
41:CN:32:ILE:HG21	41:CN:77:MET:HE2	1.87	0.56
45:CR:38:ARG:HG2	45:CR:38:ARG:NH1	2.15	0.56
47:CT:67:LYS:O	47:CT:68:ARG:HB3	2.05	0.56
50:CW:10:LEU:CD2	50:CW:12:ALA:HB3	2.34	0.56
50:CW:12:ALA:O	50:CW:15:ARG:HB2	2.05	0.56
31:DA:629:G:H2'	31:DA:630:G:H8	1.68	0.56
31:DA:1026:G:O6	31:DA:1036:G:C2	2.59	0.56
31:DA:1178:G:H5'	39:DL:93:ARG:NH2	2.19	0.56
34:DG:15:GLU:OE1	34:DG:66:ARG:NH1	2.37	0.56
34:DG:19:LEU:O	34:DG:19:LEU:HD12	2.04	0.56
52:DB:21:A:O2'	52:DB:22:G:OP1	2.24	0.56
1:AA:646:A:H2'	1:AA:647:G:O4'	2.06	0.56
1:AA:1111:A:H5'	7:AH:3:ARG:HH11	1.69	0.56
1:AA:1230:C:H2'	1:AA:1231:G:C8	2.41	0.56
1:AA:1478:G:H2'	1:AA:1479:G:C8	2.33	0.56
1:AA:1705:G:C6	1:AA:1706:U:C4	2.93	0.56
1:AA:1829:A:H2'	1:AA:1830:C:H5'	1.85	0.56
1:AA:2098:U:C4	1:AA:2099:U:C5	2.93	0.56
1:AA:2393:A:C5'	11:AO:62:LEU:HB3	2.22	0.56
15:AR:52:ILE:HD13	15:AR:61:PHE:HB3	1.86	0.56
1:BA:665:C:H2'	1:BA:666:G:H8	1.70	0.56
1:BA:811:U:H3'	11:BO:22:GLY:CA	2.36	0.56
1:BA:880:G:N2	1:BA:881:G:H1'	2.20	0.56
1:BA:1287:A:C5	1:BA:1288:U:C4	2.94	0.56
1:BA:2065:C:H1'	1:BA:2449:U:H3	1.71	0.56
1:BA:2225:A:H4'	1:BA:2226:C:O5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2250:G:OP1	1:BA:2275:C:H2'	2.05	0.56
1:BA:2275:C:O2	12:BP:85:LYS:HG2	2.04	0.56
1:BA:2314:C:C2'	1:BA:2315:G:H5'	2.35	0.56
1:BA:2847:U:H2'	1:BA:2848:G:H5'	1.88	0.56
17:B2:69:LYS:CD	17:B2:85:LYS:HD2	2.34	0.56
18:BS:36:LEU:HD13	18:BS:48:ALA:CA	2.35	0.56
24:BW:17:SER:CB	24:BW:18:PRO:CA	2.84	0.56
25:BX:52:HIS:H	25:BX:52:HIS:HD2	1.51	0.56
28:B6:43:CYS:O	28:B6:44:ARG:CB	2.54	0.56
31:CA:188:U:H2'	31:CA:189:U:H5''	1.88	0.56
31:CA:1048:G:OP1	44:CQ:3:ARG:HB3	2.05	0.56
31:CA:1435:G:H2'	31:CA:1436:U:C6	2.41	0.56
37:CJ:69:VAL:HG12	37:CJ:69:VAL:O	2.05	0.56
38:CK:87:SER:HB2	38:CK:93:VAL:CA	2.34	0.56
31:DA:160:A:H1'	31:DA:344:A:N7	2.20	0.56
31:DA:197:A:H8	31:DA:198:G:N9	2.03	0.56
31:DA:210:U:O4'	31:DA:210:U:OP1	2.24	0.56
31:DA:624:C:O3'	46:DS:10:GLY:HA2	2.05	0.56
31:DA:1128:C:H2'	31:DA:1129:C:O5'	2.04	0.56
31:DA:1238:A:C8	31:DA:1303:C:H1'	2.40	0.56
32:DE:112:VAL:O	32:DE:115:LEU:HB3	2.05	0.56
36:DI:97:PHE:O	48:DU:31:LEU:HD23	2.05	0.56
38:DK:69:ARG:HD3	38:DK:75:ARG:O	2.05	0.56
44:DQ:27:CYS:O	44:DQ:27:CYS:SG	2.63	0.56
52:DB:21:A:H2'	52:DB:22:G:H4'	1.87	0.56
1:AA:783:A:H2'	1:AA:785:G:OP1	2.05	0.56
1:AA:1794:U:O2'	1:AA:1795:C:H5'	2.06	0.56
1:AA:1893:C:C5	1:AA:1894:C:C4	2.93	0.56
1:AA:2895:U:H6	1:AA:2895:U:O5'	1.89	0.56
7:AH:10:PRO:C	7:AH:11:VAL:CG1	2.79	0.56
15:AR:11:GLU:OE1	15:AR:11:GLU:CA	2.52	0.56
15:AR:26:ASP:CB	15:AR:91:ARG:HA	2.36	0.56
21:AV:30:ASN:OD1	21:AV:33:LEU:N	2.35	0.56
1:BA:975:G:N2	1:BA:990:A:O4'	2.39	0.56
1:BA:1174:A:N6	1:BA:1176:G:O2'	2.38	0.56
1:BA:2393:A:O3'	11:BO:62:LEU:HA	2.06	0.56
3:BD:270:ILE:C	3:BD:271:ILE:CG1	2.78	0.56
4:BE:112:GLY:O	4:BE:159:HIS:HA	2.05	0.56
5:BF:197:ASP:OD1	5:BF:197:ASP:C	2.49	0.56
11:BO:38:GLN:HG2	11:BO:45:LEU:CD1	2.35	0.56
14:BQ:35:ILE:O	14:BQ:35:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:B1:17:ILE:HD12	16:B1:32:PHE:CE2	2.34	0.56
26:B4:42:PHE:O	26:B4:43:TYR:HB3	2.05	0.56
31:CA:5:U:O2	31:CA:5:U:H2'	2.06	0.56
31:CA:1169:A:N6	31:CA:1170:A:N1	2.54	0.56
31:CA:1211:U:C5'	31:CA:1212:U:OP1	2.48	0.56
37:CJ:152:ALA:O	37:CJ:155:ARG:HB3	2.06	0.56
53:CD:8:U:H1'	53:CD:49:C:C1'	2.36	0.56
32:DE:28:PHE:CD1	32:DE:190:THR:HG22	2.41	0.56
32:DE:77:ALA:HB2	32:DE:211:ILE:HD13	1.87	0.56
32:DE:97:TRP:HH2	32:DE:176:GLU:CD	2.13	0.56
38:DK:82:HIS:CD2	38:DK:82:HIS:O	2.59	0.56
1:AA:299:A:C5'	1:AA:300:A:OP2	2.54	0.56
1:AA:414:C:H2'	1:AA:415:A:C8	2.41	0.56
1:AA:489:G:N7	18:AS:49:LYS:NZ	2.53	0.56
1:AA:1668:A:H4'	1:AA:1669:A:O5'	2.05	0.56
1:AA:2281:C:O2'	1:AA:2282:G:H5'	2.06	0.56
1:AA:2286:A:H4'	1:AA:2287:A:O5'	2.05	0.56
1:AA:2688:U:O2	1:AA:2688:U:O5'	2.24	0.56
1:AA:2766:G:N3	1:AA:2766:G:H2'	2.21	0.56
1:AA:2788:C:O2'	1:AA:2809:A:N3	2.39	0.56
4:AE:25:VAL:HG12	4:AE:183:LEU:HG	1.87	0.56
5:AF:7:TYR:N	5:AF:7:TYR:CD1	2.72	0.56
21:AV:99:TYR:HD1	21:AV:123:ASP:HB3	1.69	0.56
26:A4:15:ILE:O	26:A4:33:VAL:HG12	2.06	0.56
1:BA:863:A:O2'	1:BA:864:G:H5'	2.05	0.56
1:BA:885:C:N3	1:BA:890:A:C5	2.74	0.56
1:BA:1050:A:O2'	1:BA:2752:C:O2	2.22	0.56
1:BA:1248:G:OP1	16:B1:2:PRO:HD2	2.05	0.56
1:BA:1488:G:H5'	1:BA:1489:U:OP2	2.05	0.56
1:BA:1728:G:C6	1:BA:1730:U:OP2	2.59	0.56
1:BA:1826:G:O2'	3:BD:242:ARG:NH2	2.38	0.56
2:BB:59:A:H2'	2:BB:60:C:O4'	2.05	0.56
4:BE:12:THR:C	4:BE:23:VAL:HG22	2.30	0.56
4:BE:97:LYS:N	4:BE:100:GLU:OE1	2.30	0.56
7:BH:150:ALA:C	7:BH:152:ARG:N	2.63	0.56
11:BO:112:LEU:C	11:BO:112:LEU:HD22	2.31	0.56
31:CA:50:A:H1'	31:CA:52:G:C8	2.41	0.56
31:CA:280:C:O2	47:CT:38:ARG:HG3	2.06	0.56
31:CA:389:A:H2'	31:CA:390:C:H5'	1.88	0.56
31:CA:626:U:N3	31:CA:627:G:N7	2.53	0.56
31:CA:827:U:C4	31:CA:870:U:C4	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:958:A:C6	31:CA:959:A:N1	2.73	0.56
31:CA:1054:C:HO2'	31:CA:1055:A:P	2.29	0.56
31:CA:1292:U:H2'	31:CA:1293:G:C8	2.40	0.56
32:CE:97:TRP:HH2	32:CE:176:GLU:OE2	1.87	0.56
34:CG:22:LYS:HB3	34:CG:26:CYS:H	1.71	0.56
34:CG:79:PHE:CE1	34:CG:204:ILE:HG12	2.38	0.56
34:CG:114:ARG:HH11	34:CG:114:ARG:HG2	1.70	0.56
46:CS:34:GLU:HG2	46:CS:35:LYS:H	1.69	0.56
49:CV:41:VAL:CG1	49:CV:44:MET:HB2	2.36	0.56
49:CV:53:ASN:O	49:CV:77:THR:HG22	2.05	0.56
31:DA:119:A:N7	31:DA:288:A:C2	2.74	0.56
31:DA:742:G:P	45:DR:35:ARG:HH21	2.29	0.56
31:DA:1194:U:H2'	31:DA:1195:C:C6	2.41	0.56
36:DI:96:PRO:HB3	48:DU:30:ASP:CG	2.31	0.56
38:DK:64:LYS:CD	38:DK:79:VAL:HG21	2.34	0.56
40:DM:64:GLU:O	40:DM:64:GLU:HG3	2.05	0.56
42:DO:27:LEU:HD21	42:DO:60:LEU:HB3	1.88	0.56
46:DS:58:TYR:O	46:DS:62:VAL:HG22	2.05	0.56
49:DV:48:THR:HG22	49:DV:61:TYR:CD1	2.40	0.56
1:AA:70:G:H4'	1:AA:71:A:OP1	2.06	0.56
1:AA:107:C:H2'	1:AA:108:U:H6	1.71	0.56
1:AA:643:A:C2'	1:AA:644:A:O5'	2.54	0.56
1:AA:856:C:O4'	22:A3:27:GLU:HB2	2.06	0.56
1:AA:910:A:N1	1:AA:2277:G:H1'	2.20	0.56
1:AA:2147:G:H2'	1:AA:2148:G:O4'	2.06	0.56
1:AA:2210:G:C3'	1:AA:2211:G:N7	2.64	0.56
1:AA:2334:G:C2	14:AQ:12:PHE:CD2	2.94	0.56
1:AA:2751:G:C2	7:AH:3:ARG:HB3	2.40	0.56
1:AA:2795:G:H3'	1:AA:2797:U:H5''	1.87	0.56
3:AD:125:ILE:HD12	3:AD:137:PRO:HD3	1.88	0.56
4:AE:2:LYS:HD3	4:AE:95:ILE:HG22	1.87	0.56
21:AV:27:VAL:HG22	21:AV:28:MET:N	2.21	0.56
1:BA:8:A:N1	1:BA:2895:U:O4	2.39	0.56
1:BA:128:C:H4'	1:BA:129:C:OP1	2.06	0.56
1:BA:242:G:H5'	30:B8:62:LEU:HB3	1.87	0.56
1:BA:329:G:N7	20:BU:19:LYS:HG2	2.21	0.56
1:BA:444:C:H4'	5:BF:49:ALA:HB2	1.88	0.56
1:BA:483:A:H5''	20:BU:49:VAL:HG13	1.87	0.56
1:BA:588:U:H1'	5:BF:90:PHE:CG	2.41	0.56
1:BA:657:U:H2'	1:BA:658:C:C6	2.41	0.56
1:BA:957:A:N6	1:BA:959:A:C2	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:70:TRP:CZ3	3:BD:146:GLU:OE2	2.58	0.56
5:BF:82:ILE:C	5:BF:82:ILE:HD12	2.29	0.56
6:BG:86:MET:O	6:BG:88:ILE:N	2.38	0.56
7:BH:116:GLU:HG2	7:BH:117:PRO:HD2	1.88	0.56
11:BO:81:GLN:HB3	11:BO:106:LEU:HD23	1.88	0.56
12:BP:111:GLU:O	12:BP:115:MET:HG2	2.06	0.56
31:CA:427:U:H5'	34:CG:41:GLY:HA2	1.87	0.56
31:CA:558:G:C5	31:CA:559:A:C2	2.94	0.56
31:CA:689:C:C4	31:CA:690:G:C2	2.94	0.56
31:CA:872:A:C4	31:CA:874:G:C8	2.94	0.56
43:CP:23:TYR:HD1	43:CP:67:GLU:HA	1.70	0.56
53:CC:18:C:O2'	53:CC:18:C:O2	2.21	0.56
31:DA:131:C:H2'	31:DA:132:C:C6	2.41	0.56
31:DA:192:U:C4'	50:DW:103:GLY:HA3	2.35	0.56
31:DA:814:A:H2'	31:DA:816:A:H5'	1.87	0.56
31:DA:1028:C:N4	31:DA:1033:G:H1	2.04	0.56
31:DA:1305:G:H5''	51:DX:4:GLY:C	2.31	0.56
32:DE:178:ARG:HH11	32:DE:178:ARG:CB	2.17	0.56
34:DG:150:GLU:C	34:DG:152:SER:H	2.13	0.56
39:DL:85:LEU:HD13	39:DL:92:TYR:CD2	2.38	0.56
40:DM:28:ARG:NH2	40:DM:34:VAL:HB	2.20	0.56
49:DV:80:TYR:CZ	49:DV:82:GLY:HA2	2.40	0.56
1:AA:246:C:H2'	1:AA:247:G:H5'	1.88	0.56
1:AA:882:G:C2'	1:AA:883:G:C8	2.84	0.56
1:AA:1582:C:O2'	1:AA:1586:A:C8	2.58	0.56
1:AA:1813:G:H1'	3:AD:50:THR:OG1	2.06	0.56
1:AA:2257:U:O2'	1:AA:2258:C:H5'	2.05	0.56
1:AA:2472:G:H22	1:AA:2477:C:H5''	1.71	0.56
7:AH:154:PRO:HB3	7:AH:163:TYR:CZ	2.40	0.56
13:A0:107:ASP:C	13:A0:107:ASP:OD2	2.49	0.56
14:AQ:58:LEU:HD23	14:AQ:58:LEU:N	2.21	0.56
20:AU:96:ILE:N	20:AU:99:CYS:O	2.39	0.56
22:A3:11:ARG:HB2	22:A3:11:ARG:NH1	2.21	0.56
26:A4:9:LEU:H	26:A4:27:THR:HG23	1.69	0.56
1:BA:829:A:N7	1:BA:2248:C:H5'	2.21	0.56
1:BA:953:A:OP2	12:BP:16:ARG:HD3	2.06	0.56
1:BA:1141:U:C2'	9:BM:63:THR:HG21	2.34	0.56
1:BA:1161:C:H1'	17:B2:8:GLY:O	2.06	0.56
1:BA:1340:U:H4'	1:BA:1341:U:OP2	2.05	0.56
1:BA:1538:G:O2'	1:BA:1539:G:H5'	2.06	0.56
1:BA:1778:U:H2'	1:BA:1784:A:N6	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1862:G:O2'	1:BA:1863:G:H5'	2.06	0.56
1:BA:2335:A:O2'	1:BA:2336:A:H2'	2.06	0.56
1:BA:2418:A:OP2	30:B8:29:LYS:HE2	2.06	0.56
1:BA:2469:A:O2'	12:BP:56:ARG:HG2	2.06	0.56
4:BE:89:ASP:O	4:BE:90:THR:C	2.49	0.56
5:BF:54:ARG:HB2	5:BF:79:GLY:O	2.07	0.56
5:BF:123:LEU:O	5:BF:124:LEU:C	2.49	0.56
6:BG:106:LEU:HD12	6:BG:110:ALA:HB3	1.87	0.56
10:BN:7:TYR:CE1	10:BN:20:MET:HE3	2.39	0.56
14:BQ:26:LEU:O	14:BQ:88:ASP:HB2	2.06	0.56
14:BQ:106:ARG:O	14:BQ:106:ARG:CZ	2.54	0.56
15:BR:118:ARG:CZ	31:DA:1446:A:C5	2.89	0.56
24:BW:17:SER:HB3	24:BW:21:LEU:HG	1.88	0.56
28:B6:52:VAL:HG22	28:B6:53:LYS:N	2.15	0.56
31:CA:115:G:H4'	31:CA:116:A:O5'	2.06	0.56
31:CA:601:C:O2'	31:CA:602:A:H5'	2.06	0.56
31:CA:1374:A:H2'	31:CA:1375:A:H5'	1.88	0.56
36:CI:44:GLY:HA2	36:CI:59:TYR:CZ	2.41	0.56
38:CK:53:VAL:HB	38:CK:58:TYR:CE1	2.41	0.56
39:CL:79:LEU:O	39:CL:82:ALA:HB3	2.06	0.56
42:CO:44:LYS:HG2	42:CO:44:LYS:O	2.05	0.56
31:DA:219:C:C4	31:DA:220:G:C8	2.94	0.56
31:DA:1132:C:C2'	31:DA:1133:G:H5'	2.36	0.56
36:DI:25:ILE:HD12	36:DI:82:ARG:HD2	1.87	0.56
38:DK:113:SER:O	38:DK:131:GLY:HA3	2.06	0.56
1:AA:917:A:H2'	1:AA:918:A:C5'	2.36	0.55
1:AA:958:U:OP2	12:AP:14:ARG:NH1	2.37	0.55
1:AA:1517:G:H4'	1:AA:1556:C:O2'	2.06	0.55
1:AA:2033:A:O2'	1:AA:2035:G:OP2	2.20	0.55
1:AA:2146:C:H4'	1:AA:2147:G:C8	2.41	0.55
1:AA:2419:U:H4'	28:A6:23:THR:HG21	1.87	0.55
3:AD:93:ALA:HB3	3:AD:105:ILE:HG22	1.88	0.55
5:AF:29:ASN:H	5:AF:112:MET:HE3	1.63	0.55
7:AH:30:LYS:HG3	7:AH:79:VAL:O	2.06	0.55
12:AP:51:ARG:NH2	12:AP:52:VAL:HG23	2.22	0.55
12:AP:64:ILE:O	12:AP:65:PHE:HB2	2.04	0.55
12:AP:79:LEU:C	12:AP:81:VAL:N	2.64	0.55
15:AR:50:ILE:HD11	15:AR:102:ILE:CD1	2.35	0.55
17:A2:35:LEU:CD2	17:A2:57:VAL:HG13	2.36	0.55
21:AV:69:THR:HA	21:AV:89:PHE:O	2.06	0.55
21:AV:117:LEU:HD13	21:AV:118:GLN:N	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A5:42:PRO:HB2	27:A5:43:HIS:HD2	1.69	0.55
1:BA:340:A:C2'	1:BA:341:G:H5'	2.35	0.55
1:BA:626:U:O4	11:BO:107:LYS:HE2	2.06	0.55
1:BA:1109:C:H5''	1:BA:1110:G:OP2	2.05	0.55
1:BA:1374:G:H2'	1:BA:1375:C:C6	2.41	0.55
6:BG:79:ASN:H	6:BG:79:ASN:ND2	2.02	0.55
7:BH:169:VAL:HG13	7:BH:170:ARG:H	1.72	0.55
27:B5:49:CYS:O	27:B5:56:LYS:HB3	2.05	0.55
31:CA:448:A:OP2	31:CA:485:G:N2	2.27	0.55
31:CA:486:U:H2'	31:CA:487:A:C8	2.41	0.55
31:CA:1009:G:O6	31:CA:1020:U:O2	2.25	0.55
31:CA:1347:G:N2	31:CA:1373:G:H2'	2.21	0.55
33:CF:58:GLU:N	33:CF:65:ALA:HB3	2.20	0.55
33:CF:70:VAL:CG1	33:CF:71:ALA:N	2.68	0.55
37:CJ:22:LEU:HD23	37:CJ:62:PHE:CE2	2.36	0.55
44:CQ:21:TYR:HE2	44:CQ:23:ARG:NE	2.04	0.55
48:CU:66:LEU:O	48:CU:70:ILE:HG13	2.06	0.55
52:CB:33:U:C5	52:CB:34:U:C5	2.94	0.55
31:DA:963:G:C2	40:DM:55:LYS:NZ	2.74	0.55
31:DA:1224:G:C6	31:DA:1322:C:H1'	2.41	0.55
31:DA:1278:U:H5'	31:DA:1279:A:C8	2.41	0.55
34:DG:112:VAL:HG12	34:DG:116:GLN:OE1	2.06	0.55
43:DP:84:ILE:HD12	49:DV:65:ASN:HD21	1.71	0.55
53:DD:8:U:H1'	53:DD:49:C:O4'	2.07	0.55
53:DD:14:A:OP1	53:DD:14:A:C8	2.60	0.55
1:AA:61:G:OP1	24:AW:51:ARG:NH1	2.39	0.55
1:AA:299:A:N7	1:AA:300:A:N6	2.54	0.55
1:AA:338:G:H2'	1:AA:339:U:H6	1.72	0.55
1:AA:1050:A:C8	1:AA:2751:G:C4	2.94	0.55
1:AA:1469:A:C2'	1:AA:1470:G:O5'	2.54	0.55
1:AA:1937:A:O2'	1:AA:1938:A:P	2.64	0.55
1:AA:2689:U:H4'	1:AA:2690:C:H5'	1.87	0.55
2:AB:90:C:OP2	12:AP:16:ARG:NH2	2.39	0.55
3:AD:18:VAL:HG12	3:AD:19:ALA:N	2.21	0.55
5:AF:28:ILE:HG22	5:AF:112:MET:HB3	1.88	0.55
5:AF:197:ASP:OD2	5:AF:197:ASP:N	2.38	0.55
6:AG:178:PHE:HB3	6:AG:180:PHE:HE1	1.71	0.55
7:AH:68:THR:O	7:AH:72:ILE:HG13	2.06	0.55
13:A0:92:GLY:N	13:A0:94:TYR:HE2	2.04	0.55
15:AR:5:ALA:HA	15:AR:8:LYS:HE2	1.88	0.55
15:AR:54:ARG:HA	15:AR:59:THR:HB	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:70:LEU:N	19:AT:70:LEU:HD23	2.20	0.55
21:AV:150:LEU:CD2	21:AV:154:ASP:HB2	2.36	0.55
22:A3:64:ASP:HB2	22:A3:85:ALA:CB	2.35	0.55
28:A6:15:GLU:CD	28:A6:44:ARG:HH22	2.14	0.55
1:BA:140:A:H8	1:BA:1408:C:O2'	1.83	0.55
1:BA:586:A:N1	1:BA:809:G:O2'	2.37	0.55
1:BA:847:U:O4	1:BA:933:A:N1	2.39	0.55
1:BA:986:C:H2'	1:BA:987:G:H5'	1.88	0.55
1:BA:1788:C:H2'	1:BA:1789:A:O4'	2.05	0.55
1:BA:1820:U:H4'	1:BA:1821:A:OP2	2.07	0.55
1:BA:2622:C:H5'	4:BE:159:HIS:ND1	2.22	0.55
1:BA:2667:C:H1'	7:BH:109:PHE:CD2	2.41	0.55
5:BF:25:PRO:HB2	5:BF:27:GLU:N	2.21	0.55
5:BF:46:ARG:HG2	5:BF:46:ARG:NH1	2.06	0.55
5:BF:132:VAL:O	5:BF:133:ASN:HB2	2.06	0.55
12:BP:58:PHE:C	12:BP:60:ARG:H	2.13	0.55
31:CA:186(C):G:C4	31:CA:191(E):G:N2	2.74	0.55
31:CA:501:C:H2'	31:CA:502:G:H8	1.72	0.55
43:CP:23:TYR:HB3	43:CP:67:GLU:HA	1.88	0.55
43:CP:33:ALA:O	43:CP:37:THR:HG23	2.07	0.55
45:CR:56:LEU:O	45:CR:56:LEU:HD12	2.07	0.55
47:CT:17:LYS:HG3	47:CT:47:PRO:HA	1.88	0.55
53:CD:69:C:H2'	53:CD:70:C:O4'	2.04	0.55
53:CD:71:G:C2'	53:CD:72:C:H5'	2.36	0.55
31:DA:828:A:H2'	31:DA:829:G:O4'	2.05	0.55
31:DA:955:U:O2'	49:DV:83:HIS:HD2	1.88	0.55
31:DA:973:G:O4'	40:DM:55:LYS:HG3	2.06	0.55
31:DA:1014:A:H2'	31:DA:1015:A:N9	2.21	0.55
31:DA:1091:U:O2	31:DA:1093:A:H8	1.89	0.55
31:DA:1305:G:N2	31:DA:1331:G:O2'	2.39	0.55
35:DH:43:LEU:HD22	35:DH:136:MET:HG3	1.88	0.55
39:DL:3:GLN:NE2	39:DL:20:ARG:NH1	2.54	0.55
53:DD:18:C:H2'	53:DD:18:C:O2	2.05	0.55
1:AA:275:G:N2	1:AA:276:A:N1	2.54	0.55
1:AA:1322:A:C5	1:AA:1323:U:C5	2.94	0.55
1:AA:1406:U:H2'	1:AA:1407:C:C6	2.40	0.55
1:AA:1416:G:HO2'	1:AA:1417:C:P	2.29	0.55
1:AA:2134:A:C5	1:AA:2158:A:C2	2.94	0.55
1:AA:2505:G:O6	1:AA:2576:G:H2'	2.06	0.55
1:AA:2728:U:H2'	1:AA:2729:G:H8	1.71	0.55
1:AA:2886:G:O2'	1:AA:2887:U:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:25:A:C2'	2:AB:26:A:H5'	2.37	0.55
3:AD:70:TRP:CH2	3:AD:150:LYS:HA	2.41	0.55
3:AD:182:LEU:N	3:AD:272:ALA:HB3	2.18	0.55
4:AE:92:THR:O	4:AE:95:ILE:HG12	2.06	0.55
9:AM:42:TRP:CA	9:AM:48:MET:HE1	2.32	0.55
1:BA:654(B):C:C2	1:BA:654(T):A:C2	2.95	0.55
1:BA:1075:C:H2'	1:BA:1076:C:H6	1.70	0.55
1:BA:1997:G:O2'	1:BA:1998:G:H5'	2.06	0.55
1:BA:2317:C:C2'	1:BA:2318:G:H5'	2.35	0.55
1:BA:2716:U:O2'	1:BA:2717:G:H5'	2.06	0.55
3:BD:244:ARG:HB2	3:BD:245:PRO:CD	2.37	0.55
5:BF:20:LEU:HD13	5:BF:203:GLN:OE1	2.06	0.55
8:BK:75:LEU:HD23	8:BK:76:THR:N	2.20	0.55
10:BN:66:LYS:H	10:BN:82:ASN:ND2	2.04	0.55
15:BR:88:ILE:O	15:BR:88:ILE:HG13	2.07	0.55
19:BT:39:ILE:O	19:BT:43:VAL:HG13	2.06	0.55
27:B5:46:CYS:HB3	27:B5:49:CYS:SG	2.46	0.55
31:CA:129(A):G:N2	31:CA:191(A):G:N7	2.54	0.55
31:CA:186(E):C:N4	31:CA:191(B):G:H1	2.03	0.55
31:CA:262:A:C6	31:CA:263:A:C6	2.93	0.55
31:CA:266:G:H5''	31:CA:268:C:H41	1.70	0.55
31:CA:321:A:N7	31:CA:328:C:O2'	2.28	0.55
31:CA:411:A:C8	31:CA:413:G:H1'	2.41	0.55
31:CA:539:A:H2'	31:CA:540:G:C8	2.41	0.55
31:CA:558:G:C4	31:CA:559:A:H2	2.24	0.55
31:CA:1177:G:C8	31:CA:1178:G:C2	2.94	0.55
44:CQ:22:THR:HB	44:CQ:33:VAL:HG11	1.89	0.55
49:CV:15:LEU:O	49:CV:19:VAL:HG23	2.06	0.55
31:DA:245:C:O2	31:DA:283:C:N3	2.40	0.55
31:DA:505:G:C6	31:DA:535:A:C2	2.94	0.55
31:DA:668:G:O2'	45:DR:46:HIS:HB3	2.06	0.55
31:DA:779:C:H2'	31:DA:780:A:H5'	1.88	0.55
31:DA:956:U:C2	31:DA:1225:A:C2	2.94	0.55
31:DA:960:U:O2	31:DA:960:U:C2'	2.54	0.55
31:DA:961:U:O2	31:DA:1201:A:N1	2.40	0.55
31:DA:1004:A:H1'	31:DA:1036:G:C6	2.38	0.55
31:DA:1018:C:H2'	31:DA:1019:C:O4'	2.06	0.55
31:DA:1402:C:O2	31:DA:1500:A:N1	2.39	0.55
32:DE:113:HIS:O	32:DE:116:GLU:HG2	2.06	0.55
46:DS:15:PRO:O	46:DS:16:HIS:ND1	2.38	0.55
53:DD:5:G:H1	53:DD:69:C:H42	1.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DD:71:G:O2'	53:DD:72:C:H5'	2.07	0.55
1:AA:18:C:O3'	16:A1:23:GLY:HA2	2.06	0.55
1:AA:613:U:H5'	1:AA:616:A:N6	2.21	0.55
1:AA:754:C:H2'	1:AA:755:C:H6	1.71	0.55
1:AA:775:G:C5	1:AA:794:G:C8	2.94	0.55
1:AA:1276:A:O2'	13:A0:16:HIS:CE1	2.58	0.55
1:AA:2116:G:P	1:AA:2165:G:N2	2.79	0.55
1:AA:2312:U:O2'	6:AG:40:ASN:ND2	2.32	0.55
3:AD:147:LEU:HD13	3:AD:155:LEU:HD11	1.88	0.55
8:AK:131:LYS:HB3	8:AK:132:PRO:CA	2.33	0.55
9:AM:96:GLU:N	9:AM:98:VAL:HG12	2.22	0.55
18:AS:73:ALA:HB3	18:AS:106:ILE:HD11	1.87	0.55
27:A5:40:LYS:CB	27:A5:46:CYS:SG	2.94	0.55
1:BA:812:C:O5'	11:BO:22:GLY:HA3	2.07	0.55
1:BA:918:A:H5''	2:BB:97:G:O2'	2.07	0.55
1:BA:1022:G:N2	1:BA:1142(A):A:C2	2.68	0.55
1:BA:1055:G:N3	1:BA:1085:A:C2	2.75	0.55
1:BA:1528:A:H2'	1:BA:1529:A:O4'	2.06	0.55
1:BA:2124:G:H2'	1:BA:2125:G:H5'	1.87	0.55
3:BD:27:THR:CG2	3:BD:28:GLU:N	2.69	0.55
4:BE:87:GLU:O	4:BE:87:GLU:HG3	2.05	0.55
9:BM:42:TRP:HE3	9:BM:48:MET:HE1	1.70	0.55
16:B1:25:TRP:C	16:B1:25:TRP:CD1	2.83	0.55
28:B6:36:LEU:HD23	28:B6:50:ARG:HB3	1.88	0.55
31:CA:102:G:C6	31:CA:103:C:C4	2.95	0.55
31:CA:130:A:C8	47:CT:63:ARG:HD3	2.41	0.55
31:CA:690:G:H2'	31:CA:691:G:O4'	2.07	0.55
31:CA:1346:A:OP1	39:CL:120:ARG:NH1	2.37	0.55
34:CG:31:CYS:O	34:CG:31:CYS:SG	2.64	0.55
38:CK:94:TYR:HE1	38:CK:132:GLU:HB2	1.71	0.55
41:CN:28:THR:HG21	41:CN:90:GLY:HA3	1.89	0.55
47:CT:53:LEU:HD23	47:CT:82:MET:HE1	1.88	0.55
31:DA:1056:U:H5'	33:DF:163:ALA:CB	2.36	0.55
32:DE:55:PHE:CD1	32:DE:58:ILE:HD12	2.41	0.55
35:DH:19:MET:HE1	35:DH:24:ARG:HB3	1.87	0.55
40:DM:30:SER:CB	40:DM:80:LYS:HG2	2.37	0.55
43:DP:110:ARG:HG2	43:DP:110:ARG:NH1	2.21	0.55
50:DW:25:ARG:O	50:DW:29:LYS:HG3	2.06	0.55
50:DW:43:LEU:HD13	50:DW:51:GLU:HG3	1.88	0.55
53:DC:48:U:H1'	53:DC:49:C:O5'	2.06	0.55
1:AA:889:C:C3'	1:AA:890:A:H4'	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2173:A:H2'	1:AA:2174:C:O4'	2.06	0.55
1:AA:2199:A:H3'	1:AA:2205:C:C6	2.39	0.55
1:AA:2494:G:O2'	12:AP:80:GLU:HA	2.06	0.55
1:AA:2498:C:O2'	1:AA:2499:C:H5'	2.06	0.55
1:AA:2683:C:OP1	15:AR:53:ARG:NH2	2.39	0.55
2:AB:73:A:C4	2:AB:104:A:C2	2.94	0.55
10:AN:7:TYR:OH	10:AN:44:LYS:HG3	2.07	0.55
20:AU:49:VAL:HG12	20:AU:50:ARG:H	1.72	0.55
26:A4:50:VAL:HG12	26:A4:50:VAL:O	2.06	0.55
1:BA:273(E):U:O2'	1:BA:273(F):C:H5'	2.06	0.55
1:BA:310:A:P	20:BU:18:GLY:HA2	2.46	0.55
1:BA:329:G:C6	20:BU:19:LYS:HG2	2.42	0.55
1:BA:1084:A:H3'	1:BA:1085:A:C8	2.41	0.55
1:BA:1283:G:N2	1:BA:1286:A:OP2	2.36	0.55
1:BA:1761:C:N3	1:BA:1762:A:N6	2.53	0.55
1:BA:2320:A:C6	1:BA:2333:A:C8	2.94	0.55
1:BA:2375:G:O2'	1:BA:2377:A:N7	2.33	0.55
1:BA:2453:A:O2'	1:BA:2454:G:H5'	2.07	0.55
4:BE:132:HIS:O	4:BE:132:HIS:CG	2.59	0.55
6:BG:27:ASN:HB3	6:BG:30:GLU:HG3	1.88	0.55
17:B2:78:LYS:C	17:B2:79:VAL:CG2	2.67	0.55
25:BX:43:ILE:O	25:BX:47:VAL:HG23	2.07	0.55
30:B8:34:TRP:C	30:B8:36:LYS:H	2.14	0.55
31:CA:33:A:H2'	31:CA:34:C:C6	2.41	0.55
31:CA:250:A:C4'	31:CA:251:G:H5''	2.37	0.55
31:CA:615:C:C2	31:CA:616:G:C8	2.95	0.55
31:CA:1149:C:P	39:CL:9:ARG:HH21	2.29	0.55
31:CA:1366:C:H2'	31:CA:1367:C:C6	2.41	0.55
31:CA:1500:A:OP2	31:CA:1505:G:OP1	2.25	0.55
34:CG:162:LEU:HD13	34:CG:181:MET:HB3	1.88	0.55
43:CP:4:ILE:HG22	43:CP:5:ALA:N	2.20	0.55
52:CB:15:A:C2	52:CB:70:G:C6	2.94	0.55
53:CD:55:U:C4	53:CD:56:U:C5	2.95	0.55
31:DA:242:C:H2'	31:DA:243:A:H5'	1.88	0.55
31:DA:954:G:H21	31:DA:1227:A:H62	1.55	0.55
31:DA:1141:C:O2'	31:DA:1142:G:H5'	2.06	0.55
31:DA:1386:G:C2	31:DA:1387:G:C8	2.94	0.55
32:DE:132:LYS:HA	32:DE:135:GLN:HB2	1.88	0.55
33:DF:68:VAL:HG12	33:DF:70:VAL:HG23	1.86	0.55
38:DK:17:THR:O	38:DK:78:GLN:NE2	2.38	0.55
47:DT:67:LYS:CA	47:DT:70:ARG:HH12	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1328:G:H2'	1:AA:1330:C:C5	2.41	0.55
1:AA:1794:U:H2'	1:AA:1795:C:H6	1.70	0.55
1:AA:2077:A:H2'	1:AA:2078:C:C6	2.42	0.55
1:AA:2184:G:C6	1:AA:2185:C:N4	2.74	0.55
2:AB:79:C:H2'	2:AB:80:U:O4'	2.06	0.55
11:AO:112:LEU:H	11:AO:128:HIS:HD2	1.53	0.55
12:AP:58:PHE:O	12:AP:59:ARG:C	2.50	0.55
22:A3:27:GLU:HG3	22:A3:69:PHE:H	1.71	0.55
26:A4:4:GLY:O	26:A4:5:ILE:HG22	2.07	0.55
1:BA:2020:A:O2'	1:BA:2021:C:H5'	2.07	0.55
1:BA:2507:C:H2'	1:BA:2508:G:O4'	2.07	0.55
1:BA:2681:C:C5	1:BA:2727:G:C2	2.94	0.55
3:BD:35:LYS:CB	3:BD:64:ILE:HG23	2.37	0.55
7:BH:102:ALA:CB	7:BH:117:PRO:HD3	2.36	0.55
12:BP:105:GLU:HG2	12:BP:105:GLU:O	2.07	0.55
21:BV:53:ILE:HG22	21:BV:71:VAL:HG13	1.89	0.55
31:CA:264:U:O2'	47:CT:64:PRO:HD2	2.07	0.55
31:CA:1059:C:O3'	44:CQ:45:ARG:NH2	2.40	0.55
31:CA:1112:C:C4	33:CF:178:LEU:HD23	2.41	0.55
39:CL:5:TYR:CE2	39:CL:16:ARG:HG2	2.41	0.55
53:CD:15:G:N2	53:CD:49:C:C2	2.70	0.55
31:DA:345:C:H1'	31:DA:346:G:N1	2.22	0.55
31:DA:1154:G:H2'	31:DA:1155:G:H8	1.71	0.55
31:DA:1226:C:N4	43:DP:104:ARG:HD2	2.21	0.55
32:DE:29:ALA:HA	32:DE:32:ILE:HG23	1.89	0.55
32:DE:210:SER:O	32:DE:214:ILE:HG12	2.06	0.55
33:DF:8:ILE:O	33:DF:11:ARG:N	2.39	0.55
36:DI:72:VAL:HG13	36:DI:73:ASN:H	1.72	0.55
37:DJ:78:ARG:HB2	37:DJ:156:TRP:CZ3	2.40	0.55
39:DL:26:VAL:HG13	39:DL:61:ALA:HB3	1.89	0.55
1:AA:1458:C:H5''	1:AA:1459:G:H5'	1.87	0.55
1:AA:2134:A:N7	1:AA:2158:A:H2	2.04	0.55
1:AA:2352:A:C4	1:AA:2366:A:C2	2.94	0.55
4:AE:96:PHE:O	4:AE:175:VAL:HG11	2.06	0.55
4:AE:134:ILE:C	4:AE:134:ILE:HD12	2.31	0.55
6:AG:82:LEU:O	6:AG:82:LEU:CD1	2.53	0.55
10:AN:2:ILE:HB	10:AN:33:ALA:HB3	1.88	0.55
11:AO:24:GLY:C	11:AO:26:GLY:N	2.60	0.55
11:AO:96:THR:C	11:AO:98:GLU:H	2.14	0.55
17:A2:15:GLU:CG	17:A2:16:PRO:HD2	2.34	0.55
21:AV:52:SER:O	21:AV:53:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:68:PRO:HB2	21:AV:91:LEU:HB2	1.89	0.55
21:AV:98:MET:O	21:AV:125:LEU:HD12	2.07	0.55
1:BA:153:C:OP1	23:BZ:88:LYS:NZ	2.39	0.55
1:BA:288:C:O3'	1:BA:289:A:O4'	2.25	0.55
1:BA:576:U:H2'	1:BA:577:G:C8	2.42	0.55
1:BA:1509:C:OP2	1:BA:1509:C:H4'	2.07	0.55
1:BA:2129:C:C2'	1:BA:2130:U:H5'	2.36	0.55
1:BA:2243:U:O2'	1:BA:2244:U:H5'	2.06	0.55
1:BA:2273:A:O2'	1:BA:2274:A:H5'	2.07	0.55
1:BA:2563:U:O2	1:BA:2565:A:C8	2.59	0.55
5:BF:33:LEU:HD22	5:BF:112:MET:HE2	1.89	0.55
6:BG:119:GLY:HA3	6:BG:180:PHE:C	2.31	0.55
7:BH:82:GLY:HA3	7:BH:135:GLY:O	2.06	0.55
8:BK:62:LYS:O	8:BK:62:LYS:HD2	2.05	0.55
8:BK:79:ILE:O	8:BK:142:VAL:HG23	2.07	0.55
8:BK:82:ARG:NH1	8:BK:146:ALA:HA	2.22	0.55
8:BK:125:GLU:CB	8:BK:141:LYS:HD3	2.35	0.55
9:BM:20:GLY:HA2	9:BM:61:ARG:HG2	1.87	0.55
16:B1:50:ARG:HG2	16:B1:53:ARG:NH2	2.21	0.55
16:B1:112:ARG:HD3	17:B2:47:VAL:HG11	1.88	0.55
21:BV:115:GLY:N	21:BV:177:PRO:HG2	2.22	0.55
22:B3:68:GLU:HB3	22:B3:80:HIS:HB2	1.89	0.55
25:BX:59:VAL:CG1	25:BX:60:GLU:H	2.19	0.55
26:B4:21:VAL:HG22	26:B4:22:ILE:N	2.19	0.55
26:B4:36:CYS:HB3	26:B4:41:PRO:CD	2.37	0.55
31:CA:57:G:H2'	31:CA:58:C:H6	1.70	0.55
31:CA:81:G:H2'	31:CA:82:U:O4'	2.07	0.55
31:CA:197:A:N6	31:CA:221:C:C5'	2.70	0.55
31:CA:509:A:O2'	31:CA:510:A:OP1	2.24	0.55
31:CA:1285:A:C4'	31:CA:1286:A:O5'	2.52	0.55
32:CE:22:LYS:HA	32:CE:22:LYS:NZ	2.22	0.55
38:CK:42:GLU:HG3	38:CK:109:ILE:HD12	1.87	0.55
41:CN:40:ILE:CG2	41:CN:75:TYR:HD2	2.16	0.55
42:CO:114:ARG:NH2	42:CO:121:LYS:HB2	2.21	0.55
45:CR:56:LEU:HD12	45:CR:56:LEU:C	2.32	0.55
31:DA:22:G:H4'	31:DA:885:G:C8	2.42	0.55
31:DA:512:U:H2'	31:DA:513:C:C6	2.42	0.55
31:DA:922:G:O2'	31:DA:1398:A:N1	2.38	0.55
31:DA:1114:C:H2'	31:DA:1115:C:H6	1.71	0.55
32:DE:132:LYS:O	32:DE:136:VAL:HG23	2.07	0.55
42:DO:28:LYS:O	42:DO:29:GLY:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DP:88:ARG:HG3	43:DP:98:VAL:CG1	2.37	0.55
1:AA:469:G:O6	29:A7:37:LYS:HE2	2.06	0.55
1:AA:658:C:H2'	1:AA:659:C:C6	2.41	0.55
1:AA:890:A:H3'	1:AA:892:G:H8	1.71	0.55
1:AA:1359:A:N1	1:AA:1372:U:C4	2.74	0.55
1:AA:1826:G:H4'	3:AD:242:ARG:CZ	2.37	0.55
1:AA:2094:G:O2'	1:AA:2095:C:H5'	2.06	0.55
1:AA:2169:A:N6	1:AA:2170:A:N1	2.55	0.55
1:AA:2232:U:P	23:AZ:40:ARG:HH12	2.30	0.55
1:AA:2470:G:H5'	12:AP:56:ARG:NH2	2.21	0.55
7:AH:166:GLY:O	7:AH:167:GLU:HG3	2.07	0.55
12:AP:21:THR:HB	12:AP:99:PRO:O	2.06	0.55
13:A0:78:LYS:O	13:A0:83:ILE:HG13	2.06	0.55
15:AR:122:ASP:O	15:AR:126:ALA:HB3	2.06	0.55
27:A5:36:CYS:SG	27:A5:48:GLU:O	2.64	0.55
1:BA:85:G:H5'	20:BU:32:PRO:HD3	1.88	0.55
1:BA:395:U:H2'	1:BA:396:G:N7	2.21	0.55
1:BA:558:G:OP1	9:BM:111:PRO:HD2	2.07	0.55
1:BA:580:C:H2'	1:BA:581:C:C6	2.42	0.55
1:BA:672:C:H2'	1:BA:673:C:H5'	1.88	0.55
1:BA:1247:A:OP1	5:BF:95:ARG:NH2	2.37	0.55
1:BA:1568:G:OP2	3:BD:63:ARG:NH2	2.37	0.55
1:BA:2241:A:H2'	1:BA:2242:G:C8	2.42	0.55
1:BA:2544:G:H8	1:BA:2544:G:O5'	1.90	0.55
3:BD:71:ASP:CG	3:BD:103:ARG:HH22	2.14	0.55
10:BN:10:VAL:HG13	10:BN:17:ARG:O	2.07	0.55
14:BQ:60:GLY:O	14:BQ:61:ASN:HB2	2.07	0.55
17:B2:75:PHE:CD1	17:B2:75:PHE:C	2.84	0.55
21:BV:37:VAL:HG23	21:BV:38:TYR:N	2.21	0.55
31:CA:1095:U:P	31:CA:1108:G:H1	2.30	0.55
31:CA:1162:C:O5'	31:CA:1162:C:H6	1.90	0.55
31:CA:1305:G:H8	31:CA:1305:G:OP2	1.89	0.55
33:CF:70:VAL:HG12	33:CF:71:ALA:N	2.22	0.55
34:CG:108:LEU:HD23	34:CG:110:PHE:CE1	2.42	0.55
38:CK:103:VAL:HG21	38:CK:110:ALA:HB2	1.88	0.55
31:DA:861:G:HO2'	31:DA:874:G:HO2'	1.54	0.55
31:DA:1109:C:H2'	31:DA:1110:A:O4'	2.06	0.55
31:DA:1302:U:C5	43:DP:17:VAL:HG21	2.42	0.55
31:DA:1495:U:O4	56:DA:1805:PAR:N12	2.40	0.55
33:DF:123:GLN:O	33:DF:128:PHE:HB2	2.07	0.55
34:DG:96:LEU:HD12	34:DG:139:ARG:NH2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DM:15:THR:HG21	40:DM:92:THR:HG21	1.89	0.55
1:AA:65:C:H2'	1:AA:66:C:H6	1.72	0.55
1:AA:1130:U:HO2'	1:AA:1131:G:P	2.30	0.55
1:AA:1206:G:C6	1:AA:1207:C:C4	2.95	0.55
1:AA:2052:G:C8	4:AE:141:ILE:HD11	2.41	0.55
1:AA:2341:G:H2'	1:AA:2342:C:O4'	2.07	0.55
1:AA:2402:C:H2'	1:AA:2403:C:H5'	1.88	0.55
1:AA:2667:C:H2'	1:AA:2668:G:O4'	2.06	0.55
1:AA:2751:G:O2'	1:AA:2752:C:P	2.64	0.55
3:AD:31:LYS:NZ	3:AD:33:LEU:HB3	2.21	0.55
3:AD:273:ARG:O	3:AD:273:ARG:HG3	2.05	0.55
5:AF:66:PRO:O	5:AF:67:GLN:HB3	2.07	0.55
6:AG:33:ARG:O	6:AG:162:THR:HG23	2.07	0.55
7:AH:83:TYR:HB2	7:AH:134:SER:HA	1.88	0.55
11:AO:94:GLU:OE2	11:AO:124:LYS:HD3	2.07	0.55
11:AO:95:VAL:O	11:AO:95:VAL:HG12	2.06	0.55
12:AP:29:PHE:HB3	12:AP:65:PHE:CE2	2.41	0.55
15:AR:136:GLN:HG3	15:AR:137:LYS:H	1.71	0.55
17:A2:22:VAL:HG12	17:A2:23:GLU:H	1.72	0.55
17:A2:39:LEU:HD12	17:A2:50:PRO:O	2.06	0.55
19:AT:65:ARG:HB3	19:AT:70:LEU:HB3	1.87	0.55
19:AT:84:ALA:HB3	19:AT:87:GLN:HE22	1.72	0.55
22:A3:43:THR:HG23	22:A3:43:THR:O	2.07	0.55
24:AW:14:ARG:NH1	24:AW:66:GLU:OE2	2.39	0.55
30:A8:51:ALA:N	30:A8:53:PRO:HD2	2.22	0.55
1:BA:271(C):U:H5'	1:BA:271:G:OP2	2.07	0.55
1:BA:1292:U:H2'	1:BA:1293:C:H6	1.71	0.55
1:BA:1666:G:C2'	1:BA:1667:G:H5'	2.37	0.55
1:BA:1758:G:H4'	1:BA:1759:A:OP2	2.07	0.55
1:BA:2156:G:C6	1:BA:2157:G:C2	2.95	0.55
1:BA:2555:U:O2	52:DB:85:C:C6	2.59	0.55
1:BA:2712:U:O2'	1:BA:2712(A):A:P	2.65	0.55
3:BD:166:GLN:NE2	3:BD:166:GLN:CA	2.69	0.55
8:BK:93:THR:H	8:BK:96:ASP:HB2	1.72	0.55
8:BK:101:LEU:H	8:BK:101:LEU:CD2	2.18	0.55
11:BO:41:ARG:HD2	11:BO:41:ARG:H	1.71	0.55
15:BR:56:GLY:H	15:BR:59:THR:HG22	1.71	0.55
20:BU:3:VAL:HG11	20:BU:32:PRO:O	2.07	0.55
31:CA:271:C:H2'	31:CA:272:C:C6	2.42	0.55
31:CA:271:C:H2'	31:CA:272:C:H6	1.71	0.55
31:CA:381:C:H2'	31:CA:382:A:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:559:A:OP1	35:CH:126:ARG:NH2	2.40	0.55
31:CA:757:U:H2'	31:CA:758:G:O4'	2.07	0.55
31:CA:771:G:O2'	31:CA:772:U:H5'	2.07	0.55
31:CA:968:A:H4'	31:CA:969:A:OP2	2.07	0.55
35:CH:126:ARG:NH1	35:CH:126:ARG:CG	2.69	0.55
37:CJ:36:LYS:HB2	37:CJ:36:LYS:HZ2	1.72	0.55
43:CP:82:MET:O	43:CP:83:ASP:HB2	2.06	0.55
53:CD:6:G:H2'	53:CD:7:G:H8	1.71	0.55
53:CD:67:C:N3	53:CD:68:C:N4	2.55	0.55
31:DA:369:C:O2	31:DA:369:C:H2'	2.06	0.55
31:DA:634:C:O2'	31:DA:635:G:H5'	2.06	0.55
31:DA:668:G:O2'	31:DA:669:U:H5'	2.07	0.55
31:DA:1019:C:O2'	31:DA:1020:U:H5'	2.07	0.55
31:DA:1328:C:C2'	31:DA:1329:A:H5'	2.36	0.55
34:DG:47:ARG:NH1	34:DG:49:ARG:HH22	2.05	0.55
44:DQ:12:ARG:CB	44:DQ:14:PRO:HD3	2.37	0.55
1:AA:146:G:H2'	1:AA:147:U:O4'	2.07	0.55
1:AA:527:C:H4'	1:AA:528:A:O5'	2.07	0.55
1:AA:844:C:H2'	1:AA:845:G:O4'	2.07	0.55
1:AA:890:A:H2'	1:AA:892:G:O4'	2.06	0.55
1:AA:958:U:O2	2:AB:89(A):A:H4'	2.06	0.55
1:AA:1384:A:N3	1:AA:1405:U:H1'	2.22	0.55
1:AA:1567:A:H5''	3:AD:58:HIS:CD2	2.41	0.55
1:AA:1652:A:N7	1:AA:1653:G:C6	2.75	0.55
1:AA:2393:A:H4'	11:AO:62:LEU:N	2.22	0.55
1:AA:2846:G:P	15:AR:54:ARG:HB2	2.46	0.55
1:AA:2884:U:C2'	1:AA:2885:C:H5'	2.37	0.55
4:AE:51:PHE:O	4:AE:74:PRO:HB2	2.07	0.55
10:AN:7:TYR:CZ	10:AN:44:LYS:HG3	2.42	0.55
14:AQ:65:VAL:O	14:AQ:69:VAL:HG12	2.07	0.55
20:AU:2:ARG:HG2	20:AU:3:VAL:HG23	1.89	0.55
21:AV:10:ARG:HB2	21:AV:36:LYS:O	2.07	0.55
1:BA:162:U:H4'	1:BA:171:G:C5	2.41	0.55
1:BA:444:C:C4'	5:BF:49:ALA:HB2	2.36	0.55
1:BA:527:C:OP2	1:BA:2779:U:C5	2.60	0.55
1:BA:588:U:H1'	5:BF:90:PHE:HB3	1.88	0.55
1:BA:945:A:H3'	1:BA:946:G:H5''	1.89	0.55
1:BA:1025:G:C4	1:BA:1135:C:H1'	2.42	0.55
1:BA:1164:G:C2	1:BA:1165:U:C2	2.95	0.55
1:BA:1665:A:H4'	10:BN:67:LYS:HB2	1.89	0.55
1:BA:2392:A:OP1	30:B8:32:LEU:CD1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BU:61:ILE:HG22	20:BU:62:GLU:N	2.19	0.55
20:BU:98:VAL:HG13	20:BU:99:CYS:N	2.21	0.55
24:BW:46:GLN:H	24:BW:49:LYS:HZ2	1.54	0.55
26:B4:37:SER:OG	26:B4:38:LYS:N	2.37	0.55
30:B8:54:GLU:O	30:B8:56:GLU:N	2.40	0.55
31:CA:412:A:H4'	31:CA:413:G:O5'	2.06	0.55
31:CA:1008:C:N4	31:CA:1021:G:H1	2.05	0.55
32:CE:120:ALA:O	32:CE:121:LEU:CB	2.55	0.55
32:CE:224:GLN:HB2	32:CE:229:VAL:HG23	1.89	0.55
33:CF:64:VAL:HG21	33:CF:99:VAL:HG12	1.88	0.55
33:CF:131:ARG:CZ	33:CF:131:ARG:HB2	2.37	0.55
33:CF:181:ASN:HD21	33:CF:204:LEU:HB2	1.71	0.55
37:CJ:6:ARG:O	37:CJ:6:ARG:HG2	2.07	0.55
38:CK:41:ARG:HG3	38:CK:41:ARG:NH1	2.20	0.55
31:DA:191:G:C2'	50:DW:103:GLY:HA2	2.36	0.55
31:DA:554:C:H2'	31:DA:555:C:C6	2.37	0.55
31:DA:584:G:H5'	47:DT:91:ARG:NH1	2.22	0.55
31:DA:933:G:O6	37:DJ:3:ARG:NH2	2.40	0.55
31:DA:983:A:H5''	31:DA:984:C:OP2	2.07	0.55
31:DA:1004:A:OP1	31:DA:1025:U:O4	2.25	0.55
31:DA:1116:C:H42	31:DA:1184:G:H1	1.55	0.55
47:DT:53:LEU:HD23	47:DT:82:MET:HE1	1.89	0.55
53:DD:38:A:H2'	53:DD:39:A:O4'	2.07	0.55
1:AA:32:C:O2'	1:AA:33:U:H5'	2.06	0.54
1:AA:184:C:H2'	1:AA:185:U:H6	1.71	0.54
1:AA:1519:G:C2'	1:AA:1520:U:H5'	2.37	0.54
1:AA:1637:A:H4'	1:AA:2711:A:O2'	2.07	0.54
1:AA:1771:C:HO2'	1:AA:1786:A:C1'	2.19	0.54
2:AB:78:A:C2	2:AB:99:A:C4	2.95	0.54
2:AB:112:G:H2'	2:AB:113:C:C6	2.42	0.54
11:AO:18:ARG:CZ	11:AO:21:ARG:HD3	2.37	0.54
12:AP:43:THR:OG1	12:AP:46:GLN:HG3	2.07	0.54
13:A0:49:ASP:OD1	13:A0:95:THR:HG22	2.07	0.54
16:A1:92:ARG:HD2	16:A1:95:LEU:HD12	1.89	0.54
22:A3:11:ARG:HB2	22:A3:11:ARG:HH11	1.70	0.54
1:BA:94:G:H2'	1:BA:95:G:O4'	2.07	0.54
1:BA:307:G:N2	1:BA:309:G:H3'	2.23	0.54
1:BA:384:U:H2'	1:BA:385:C:H6	1.71	0.54
1:BA:654(D):G:N2	1:BA:654(R):C:C2	2.75	0.54
1:BA:1153:C:H2'	1:BA:1154:G:O4'	2.07	0.54
1:BA:1796:U:H2'	1:BA:1797:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1907:G:O2'	1:BA:1908:C:H5'	2.08	0.54
1:BA:2127:G:N2	1:BA:2173:A:C8	2.75	0.54
1:BA:2131:G:O4'	1:BA:2158:A:N6	2.41	0.54
1:BA:2154:G:C2	1:BA:2155:G:C5	2.95	0.54
1:BA:2196:C:O2'	1:BA:2197:U:H5'	2.06	0.54
1:BA:2447:G:H1'	1:BA:2448:A:OP2	2.07	0.54
9:BM:13:TRP:O	9:BM:135:PRO:HD2	2.07	0.54
11:BO:64:LYS:HB2	30:B8:25:MET:CG	2.24	0.54
15:BR:56:GLY:O	15:BR:59:THR:CG2	2.53	0.54
17:B2:49:THR:HB	17:B2:50:PRO:CD	2.38	0.54
21:BV:114:GLY:C	21:BV:116:VAL:H	2.13	0.54
31:CA:184:G:H2'	31:CA:185:A:C8	2.42	0.54
31:CA:943:U:H2'	31:CA:944:G:H5'	1.88	0.54
31:CA:957:U:H2'	31:CA:959:A:OP2	2.07	0.54
31:CA:1203:C:H2'	31:CA:1204:A:O4'	2.07	0.54
31:CA:1299:A:H2'	31:CA:1301:U:C1'	2.37	0.54
32:CE:212:GLN:CD	32:CE:235:SER:HB2	2.32	0.54
33:CF:50:ALA:HB1	33:CF:70:VAL:HG11	1.88	0.54
35:CH:77:PRO:HG2	35:CH:142:LEU:HD22	1.90	0.54
35:CH:147:ASP:HA	35:CH:150:ARG:NH1	2.23	0.54
38:CK:95:VAL:HG12	38:CK:99:GLU:CB	2.37	0.54
39:CL:22:GLY:O	39:CL:57:GLY:O	2.25	0.54
31:DA:197:A:C6	31:DA:221:C:H4'	2.42	0.54
31:DA:1305:G:O2'	31:DA:1306:A:P	2.64	0.54
31:DA:1502:A:H2	31:DA:1505:G:N1	2.03	0.54
32:DE:144:ARG:HD2	32:DE:148:TYR:CE2	2.42	0.54
32:DE:153:ARG:CG	32:DE:154:LEU:H	2.20	0.54
32:DE:178:ARG:HH11	32:DE:178:ARG:CG	2.19	0.54
42:DO:111:LYS:NZ	42:DO:111:LYS:HB3	2.22	0.54
52:DB:16:U:OP1	52:DB:17:U:C4	2.60	0.54
52:DB:29:U:H2'	52:DB:30:A:C8	2.42	0.54
53:DD:52:C:N3	53:DD:64:G:N2	2.51	0.54
1:AA:265:A:C8	1:AA:266:G:H1'	2.42	0.54
1:AA:275:G:N2	1:AA:276:A:C2	2.74	0.54
1:AA:1060:U:H3	1:AA:1088:A:H8	1.55	0.54
1:AA:1803:A:O2'	3:AD:259:THR:HG21	2.07	0.54
1:AA:2473:U:N3	1:AA:2474:C:C6	2.76	0.54
1:AA:2572:A:N7	4:AE:144:ARG:NE	2.52	0.54
6:AG:91:ARG:HD2	6:AG:91:ARG:C	2.32	0.54
12:AP:23:GLY:HA2	12:AP:25:ASP:CB	2.35	0.54
13:A0:84:ALA:HB3	13:A0:85:PRO:HD3	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:39:LEU:O	17:A2:40:LEU:CD2	2.54	0.54
18:AS:111:HIS:HD2	18:AS:112:GLY:H	1.55	0.54
1:BA:796:C:H2'	1:BA:797:C:C6	2.41	0.54
1:BA:993:G:H1'	17:B2:87:HIS:CE1	2.41	0.54
1:BA:1022:G:C6	1:BA:1140:C:C4	2.95	0.54
1:BA:2689:U:C4'	1:BA:2690:C:OP2	2.56	0.54
1:BA:2801:A:H5'	1:BA:2895:U:O2'	2.07	0.54
1:BA:2875:C:O2'	15:BR:5:ALA:HB3	2.07	0.54
2:BB:103:U:O2'	21:BV:72:ARG:HG2	2.07	0.54
4:BE:9:VAL:HG13	4:BE:26:ILE:O	2.07	0.54
7:BH:169:VAL:HG22	7:BH:170:ARG:N	2.23	0.54
14:BQ:102:ALA:O	14:BQ:105:ALA:N	2.40	0.54
23:BZ:91:LYS:HG3	23:BZ:92:LYS:N	2.22	0.54
25:BX:17:LYS:O	25:BX:17:LYS:HD3	2.07	0.54
31:CA:148:G:C2	31:CA:149:A:C8	2.95	0.54
31:CA:611:A:N6	31:CA:629:G:N1	2.51	0.54
32:CE:21:ARG:C	32:CE:23:ARG:H	2.14	0.54
33:CF:83:ARG:O	33:CF:86:VAL:HG22	2.07	0.54
36:CI:3:ARG:O	36:CI:93:SER:HB2	2.08	0.54
38:CK:88:LYS:CB	38:CK:89:PRO:HD2	2.37	0.54
49:CV:40:ILE:CG1	49:CV:41:VAL:HG13	2.36	0.54
53:CD:6:G:C2	53:CD:7:G:N7	2.76	0.54
31:DA:570:G:H1'	31:DA:820:U:C4	2.42	0.54
31:DA:583:A:H2'	31:DA:584:G:O4'	2.07	0.54
31:DA:981:U:H5'	44:DQ:21:TYR:CE1	2.43	0.54
31:DA:1128:C:C2	31:DA:1139:G:C6	2.96	0.54
32:DE:5:ILE:O	32:DE:5:ILE:HG23	2.07	0.54
32:DE:121:LEU:O	32:DE:121:LEU:HD23	2.06	0.54
33:DF:18:TRP:N	33:DF:18:TRP:CE3	2.73	0.54
33:DF:134:ILE:CG2	33:DF:168:ALA:HB3	2.37	0.54
43:DP:67:GLU:N	43:DP:70:LEU:HD12	2.22	0.54
44:DQ:36:PHE:CD1	44:DQ:37:PHE:CD2	2.95	0.54
52:DB:5:A:H2'	52:DB:6:G:O4'	2.07	0.54
1:AA:1057:A:H2'	1:AA:1058:U:C6	2.41	0.54
1:AA:1090:U:C2	1:AA:1102:C:O2	2.60	0.54
1:AA:1784:A:H4'	1:AA:1785:A:H5''	1.89	0.54
1:AA:2693:A:O2'	1:AA:2694:G:H5'	2.07	0.54
1:AA:2789:C:C3'	1:AA:2790:A:H5''	2.36	0.54
1:AA:2867:G:OP2	15:AR:119:LYS:NZ	2.24	0.54
3:AD:35:LYS:HZ1	3:AD:65:ILE:HA	1.71	0.54
3:AD:172:TYR:CD1	3:AD:186:HIS:HA	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:51:PHE:O	4:AE:52:LEU:C	2.50	0.54
5:AF:46:ARG:NH1	5:AF:46:ARG:CG	2.69	0.54
5:AF:132:VAL:O	5:AF:138:GLU:OE1	2.25	0.54
6:AG:16:ARG:HH11	6:AG:16:ARG:HG2	1.71	0.54
9:AM:128:HIS:CD2	9:AM:129:PRO:O	2.59	0.54
12:AP:134:ARG:HA	12:AP:138:ASP:OD2	2.07	0.54
12:AP:136:ALA:CB	21:AV:52:SER:HB2	2.38	0.54
13:A0:52:ILE:O	13:A0:55:ALA:N	2.40	0.54
1:BA:52:A:O2'	1:BA:53:A:H5'	2.07	0.54
1:BA:89:G:H3'	1:BA:90:U:H5''	1.89	0.54
1:BA:99:U:H4'	1:BA:102:G:H1'	1.89	0.54
1:BA:234:C:H2'	1:BA:235:U:C6	2.43	0.54
1:BA:242:G:C8	30:B8:5:LYS:HG2	2.43	0.54
1:BA:848:G:C4	1:BA:933:A:C8	2.95	0.54
1:BA:1064:C:H2'	1:BA:1065:U:C6	2.43	0.54
1:BA:1608:A:H1'	1:BA:1610:A:OP2	2.07	0.54
1:BA:2015:A:C1'	27:B5:2:ALA:N	2.63	0.54
1:BA:2037:G:H2'	1:BA:2038:G:C8	2.43	0.54
1:BA:2173:A:C2	1:BA:2174:C:H4'	2.42	0.54
1:BA:2727:G:O3'	10:BN:70:LYS:HE3	2.07	0.54
9:BM:42:TRP:O	16:B1:64:ARG:NH2	2.34	0.54
13:B0:78:LYS:O	13:B0:82:GLU:HB2	2.07	0.54
21:BV:138:GLU:O	21:BV:156:LYS:HG3	2.07	0.54
23:BZ:86:SER:N	23:BZ:87:PRO:CD	2.69	0.54
31:CA:16:A:C6	31:CA:17:U:C5	2.96	0.54
31:CA:87:A:H2'	31:CA:88:C:H6	1.73	0.54
31:CA:149:A:C2	31:CA:150:C:C2	2.96	0.54
31:CA:297:G:H4'	31:CA:557:G:H4'	1.90	0.54
31:CA:792:A:C4'	31:CA:793:U:O5'	2.45	0.54
31:CA:1014:A:C2	31:CA:1219:U:H1'	2.42	0.54
34:CG:10:ARG:HB2	34:CG:10:ARG:HH11	1.71	0.54
36:CI:48:LEU:HB2	36:CI:56:PRO:O	2.07	0.54
49:CV:24:ALA:O	49:CV:25:LYS:HB3	2.06	0.54
31:DA:182:U:C5	31:DA:183:G:C4	2.95	0.54
31:DA:339:C:H2'	31:DA:340:U:H5'	1.89	0.54
31:DA:411:A:H62	31:DA:413:G:N2	2.05	0.54
31:DA:411:A:N7	31:DA:413:G:N3	2.55	0.54
31:DA:632:A:C1'	31:DA:633:G:OP2	2.51	0.54
31:DA:1053:G:H2'	31:DA:1054:C:OP2	2.07	0.54
32:DE:172:ILE:HD12	32:DE:172:ILE:N	2.21	0.54
37:DJ:79:ARG:HA	37:DJ:83:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DO:27:LEU:O	42:DO:28:LYS:C	2.51	0.54
44:DQ:12:ARG:CZ	44:DQ:14:PRO:HG2	2.38	0.54
47:DT:40:LYS:HD3	47:DT:42:TYR:CZ	2.43	0.54
49:DV:79:THR:O	49:DV:79:THR:OG1	2.20	0.54
52:DB:17:U:H5''	52:DB:18:G:C8	2.42	0.54
1:AA:86:C:H4'	1:AA:104:U:H1'	1.90	0.54
1:AA:1109:C:N4	1:AA:1110:G:C2	2.76	0.54
1:AA:1510:A:H4'	1:AA:1510:A:OP1	2.06	0.54
1:AA:2681:C:H1'	1:AA:2682:U:OP2	2.08	0.54
3:AD:118:VAL:HG22	3:AD:119:ALA:N	2.22	0.54
5:AF:46:ARG:HH11	5:AF:46:ARG:CG	2.06	0.54
9:AM:42:TRP:CD1	16:A1:63:VAL:HG11	2.41	0.54
9:AM:120:LEU:HD22	9:AM:120:LEU:C	2.32	0.54
20:AU:60:PHE:O	20:AU:61:ILE:HD12	2.07	0.54
23:AZ:41:ARG:HG3	23:AZ:41:ARG:NH1	2.11	0.54
23:AZ:85:LEU:O	23:AZ:88:LYS:N	2.37	0.54
30:A8:58:ILE:HG13	30:A8:61:LEU:HD11	1.89	0.54
1:BA:2657:A:O2'	7:BH:160:LYS:HE3	2.07	0.54
4:BE:131:ALA:O	4:BE:132:HIS:HB2	2.08	0.54
5:BF:31:HIS:ND1	11:BO:9:ASN:OD1	2.40	0.54
7:BH:151:ILE:O	7:BH:152:ARG:HG3	2.07	0.54
14:BQ:62:LYS:HB3	14:BQ:97:ARG:HD3	1.88	0.54
20:BU:12:THR:OG1	20:BU:26:LYS:HE2	2.07	0.54
28:B6:26:ASN:O	28:B6:28:ARG:HG2	2.06	0.54
35:CH:10:MET:HB3	35:CH:32:VAL:HG22	1.90	0.54
36:CI:8:ILE:HG22	36:CI:10:LEU:HD12	1.90	0.54
39:CL:13:ALA:HB2	39:CL:68:GLY:HA3	1.88	0.54
31:DA:424:G:H2'	31:DA:425:G:H8	1.71	0.54
31:DA:468:A:H2'	31:DA:474:G:H5'	1.89	0.54
31:DA:692:U:O2	31:DA:694:A:C8	2.61	0.54
31:DA:1272:G:H2'	31:DA:1273:G:O4'	2.07	0.54
34:DG:60:GLU:OE2	34:DG:198:VAL:HA	2.07	0.54
42:DO:36:VAL:O	42:DO:59:ARG:N	2.37	0.54
1:AA:57:C:H2'	1:AA:58:G:O4'	2.08	0.54
1:AA:234:C:H2'	1:AA:235:U:H6	1.71	0.54
1:AA:336:C:C2'	1:AA:337:C:H5'	2.38	0.54
1:AA:612:G:C6	1:AA:613:U:C4	2.96	0.54
1:AA:634:C:H2'	1:AA:635:C:C6	2.42	0.54
1:AA:942:G:OP2	11:AO:39:LYS:HE2	2.08	0.54
1:AA:1022:G:N2	1:AA:1142(A):A:C2	2.57	0.54
1:AA:1478:G:O2'	1:AA:1479:G:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1833:U:O2'	1:AA:1834:U:H5'	2.08	0.54
1:AA:2506:U:H2'	1:AA:2506:U:O2	2.07	0.54
1:AA:2533:A:H2'	1:AA:2534:A:H5'	1.89	0.54
1:AA:2543:G:H2'	1:AA:2544:G:C8	2.41	0.54
1:AA:2591:C:H2'	1:AA:2592:G:C8	2.42	0.54
2:AB:11:C:H5''	2:AB:12:C:OP2	2.07	0.54
3:AD:58:HIS:HD2	3:AD:59:LYS:O	1.90	0.54
4:AE:35:GLN:HG2	4:AE:37:ARG:HG2	1.90	0.54
11:AO:70:GLN:HB3	11:AO:72:PRO:HD2	1.90	0.54
12:AP:58:PHE:O	12:AP:58:PHE:CD1	2.61	0.54
20:AU:35:TYR:CE1	20:AU:69:ALA:HB3	2.42	0.54
27:A5:3:LYS:C	27:A5:4:HIS:O	2.47	0.54
1:BA:141:A:H8	1:BA:1408:C:H1'	1.72	0.54
1:BA:308:G:C8	1:BA:501:A:H1'	2.43	0.54
1:BA:374:A:C2	1:BA:401:A:C4	2.96	0.54
1:BA:654:A:H2'	1:BA:654:A:N3	2.23	0.54
1:BA:1019:U:H2'	1:BA:1020:A:C8	2.42	0.54
1:BA:1022:G:C2'	1:BA:1023:U:OP2	2.56	0.54
1:BA:1062:G:N2	1:BA:1076:C:N3	2.54	0.54
1:BA:1287:A:C8	13:B0:107:ASP:HB3	2.41	0.54
1:BA:1444:G:N2	1:BA:1548:C:C2	2.75	0.54
1:BA:2176:A:H2'	1:BA:2177:C:C6	2.43	0.54
1:BA:2777:G:C5'	1:BA:2778:A:H5'	2.32	0.54
3:BD:35:LYS:NZ	3:BD:104:TYR:HB2	2.21	0.54
7:BH:102:ALA:CA	7:BH:117:PRO:HD3	2.37	0.54
12:BP:64:ILE:CG2	12:BP:106:VAL:HG12	2.36	0.54
21:BV:39:VAL:HG21	21:BV:44:PHE:HB2	1.90	0.54
21:BV:128:VAL:HG22	21:BV:129:SER:N	2.20	0.54
29:B7:11:LYS:HD3	29:B7:11:LYS:O	2.07	0.54
31:CA:17:U:O4'	31:CA:1080:A:H1'	2.08	0.54
31:CA:353:A:H2'	31:CA:354:G:OP2	2.08	0.54
31:CA:764:C:O2	31:CA:764:C:H2'	2.07	0.54
39:CL:52:ALA:C	39:CL:95:LYS:NZ	2.63	0.54
41:CN:12:ARG:HG2	41:CN:13:GLN:N	2.22	0.54
48:CU:53:ARG:HH21	48:CU:60:ALA:N	2.06	0.54
31:DA:450:G:N7	31:DA:481:G:C6	2.76	0.54
32:DE:144:ARG:HD2	32:DE:148:TYR:HE2	1.73	0.54
33:DF:82:GLU:HA	33:DF:85:ARG:HB2	1.90	0.54
33:DF:188:LEU:N	33:DF:188:LEU:HD22	2.23	0.54
38:DK:20:TYR:HD1	38:DK:65:TYR:CD2	2.25	0.54
39:DL:125:TYR:CD2	39:DL:125:TYR:C	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DO:79:GLU:HG3	42:DO:80:HIS:CD2	2.42	0.54
46:DS:3:LYS:O	46:DS:21:VAL:HA	2.07	0.54
48:DU:22:VAL:C	48:DU:24:ALA:H	2.15	0.54
49:DV:15:LEU:O	49:DV:19:VAL:HG23	2.07	0.54
53:DD:8:U:H1'	53:DD:49:C:C1'	2.37	0.54
1:AA:1167:U:C2	1:AA:1183:G:N2	2.76	0.54
1:AA:1290:C:H2'	1:AA:1291:C:H6	1.72	0.54
1:AA:1538:G:O2'	1:AA:1539:G:H5'	2.07	0.54
1:AA:1783:A:H5'	1:AA:2608:G:H4'	1.90	0.54
1:AA:2113:U:C5'	1:AA:2114:A:C8	2.86	0.54
1:AA:2351:G:HO2'	1:AA:2352:A:H8	1.55	0.54
2:AB:32:C:C2	2:AB:51:G:N2	2.75	0.54
3:AD:121:PRO:HB3	3:AD:135:PHE:CE1	2.43	0.54
6:AG:117:PHE:CE1	6:AG:119:GLY:HA2	2.43	0.54
8:AK:61:ARG:HE	8:AK:61:ARG:HA	1.73	0.54
10:AN:88:ASN:OD1	10:AN:88:ASN:C	2.49	0.54
13:A0:3:HIS:O	13:A0:5:LYS:HB2	2.07	0.54
16:A1:79:PHE:CE1	16:A1:106:PHE:CZ	2.95	0.54
22:A3:42:GLY:C	22:A3:57:PHE:HD1	2.15	0.54
26:A4:12:ALA:HB1	26:A4:29:PRO:HA	1.90	0.54
28:A6:41:PRO:HD3	28:A6:46:HIS:O	2.08	0.54
1:BA:84:A:H61	1:BA:102:G:HO2'	1.48	0.54
1:BA:775:G:C4	1:BA:794:G:C8	2.96	0.54
1:BA:1016:G:C4	1:BA:1017:G:C8	2.95	0.54
1:BA:1104:C:H2'	1:BA:1105:U:C6	2.43	0.54
1:BA:1110:G:O2'	1:BA:1111:A:O5'	2.25	0.54
1:BA:1341:U:H2'	1:BA:1397:U:O2	2.08	0.54
2:BB:61:G:C6	2:BB:62:C:C4	2.95	0.54
3:BD:25:THR:C	3:BD:27:THR:N	2.57	0.54
3:BD:158:ALA:O	3:BD:196:VAL:HG11	2.08	0.54
10:BN:35:VAL:HG21	10:BN:69:ILE:HD13	1.90	0.54
12:BP:54:MET:HE3	12:BP:64:ILE:HD12	1.90	0.54
14:BQ:24:LEU:CD1	14:BQ:41:ASP:HB2	2.37	0.54
24:BW:17:SER:HB2	24:BW:21:LEU:H	1.72	0.54
24:BW:67:LYS:O	24:BW:72:ALA:HB2	2.07	0.54
28:B6:44:ARG:C	28:B6:45:LYS:CD	2.79	0.54
30:B8:32:LEU:O	30:B8:36:LYS:NZ	2.39	0.54
31:CA:113:G:H2'	31:CA:114:U:C6	2.43	0.54
31:CA:606:G:H5''	31:CA:607:A:O5'	2.08	0.54
31:CA:1004:A:H1'	31:CA:1036:G:O6	2.08	0.54
31:CA:1026:G:O6	31:CA:1036:G:C2	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1158:C:C4	31:CA:1160:G:C5	2.96	0.54
31:CA:1525:G:OP1	41:CN:120:ARG:NH2	2.41	0.54
33:CF:104:GLN:HA	33:CF:104:GLN:HE21	1.73	0.54
34:CG:27:TYR:OH	36:DI:15:ASP:OD2	2.26	0.54
34:CG:126:ILE:CG2	34:CG:127:THR:N	2.71	0.54
34:CG:138:TYR:CD2	34:CG:139:ARG:N	2.76	0.54
39:CL:83:ARG:O	39:CL:86:VAL:HG12	2.08	0.54
31:DA:266:G:H1'	31:DA:267:C:OP2	2.08	0.54
31:DA:563:A:N7	31:DA:567:G:H1'	2.22	0.54
31:DA:687:A:H1'	31:DA:688:G:OP2	2.07	0.54
31:DA:838:G:H1	31:DA:848:C:H42	1.53	0.54
31:DA:1091:U:O2	31:DA:1093:A:C8	2.61	0.54
31:DA:1177:G:N1	31:DA:1181:G:O6	2.40	0.54
35:DH:152:ARG:NH2	38:DK:107:LEU:O	2.37	0.54
49:DV:22:LEU:O	49:DV:22:LEU:HD12	2.07	0.54
1:AA:2:G:H2'	1:AA:3:U:C6	2.43	0.54
1:AA:299:A:H62	1:AA:300:A:H61	1.56	0.54
1:AA:774:A:C2	1:AA:787:U:O2'	2.51	0.54
1:AA:1079:C:H3'	1:AA:1080:A:C8	2.43	0.54
1:AA:1439:A:C2	1:AA:1553:A:C4	2.96	0.54
1:AA:1931:U:H5	1:AA:1969:A:N7	2.06	0.54
1:AA:2134:A:C5	1:AA:2158:A:H2	2.25	0.54
1:AA:2294:C:C4	1:AA:2295:C:C5	2.96	0.54
1:AA:2747:G:O3'	7:AH:70:THR:HG21	2.08	0.54
2:AB:94:C:C4	2:AB:95:U:C5	2.96	0.54
3:AD:54:ARG:O	3:AD:218:ARG:HD3	2.08	0.54
3:AD:65:ILE:HD11	3:AD:67:PHE:CD2	2.42	0.54
3:AD:221:VAL:HG22	3:AD:226:MET:HE2	1.89	0.54
4:AE:22:PRO:O	4:AE:23:VAL:HG22	2.07	0.54
4:AE:62:PRO:O	4:AE:63:LEU:C	2.51	0.54
5:AF:136:THR:HG22	5:AF:166:ALA:O	2.08	0.54
6:AG:181:ARG:O	6:AG:182:LYS:HB2	2.08	0.54
12:AP:64:ILE:CG2	12:AP:65:PHE:H	1.92	0.54
13:A0:42:LYS:HA	13:A0:45:ARG:HD2	1.90	0.54
20:AU:9:LYS:HA	20:AU:27:VAL:HG22	1.89	0.54
22:A3:72:ARG:HB3	22:A3:75:LEU:HB2	1.89	0.54
1:BA:35:G:C4	1:BA:454:A:C2	2.96	0.54
1:BA:55:G:C2	1:BA:116:C:C2	2.95	0.54
1:BA:309:G:H4'	20:BU:19:LYS:H	1.72	0.54
1:BA:654(S):G:C4'	1:BA:654(T):A:OP1	2.55	0.54
1:BA:806:C:OP2	11:BO:41:ARG:NH2	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1022:G:H8	9:BM:69:GLN:HE22	1.56	0.54
4:BE:132:HIS:O	4:BE:132:HIS:ND1	2.41	0.54
5:BF:53:THR:HG22	5:BF:56:GLU:CG	2.37	0.54
7:BH:102:ALA:CB	7:BH:116:GLU:HA	2.38	0.54
10:BN:63:VAL:HG12	10:BN:106:LEU:HD11	1.90	0.54
11:BO:11:GLY:C	11:BO:13:ASN:N	2.66	0.54
14:BQ:67:ARG:CZ	14:BQ:67:ARG:HB2	2.38	0.54
14:BQ:85:VAL:HG23	14:BQ:112:PHE:CZ	2.42	0.54
17:B2:75:PHE:O	17:B2:75:PHE:HD1	1.86	0.54
20:BU:97:ARG:HD3	20:BU:97:ARG:H	1.73	0.54
31:CA:41:G:H2'	31:CA:42:G:H8	1.72	0.54
31:CA:136:C:H42	31:CA:227:G:H1	1.54	0.54
31:CA:244:U:H4'	31:CA:245:C:O5'	2.07	0.54
31:CA:690:G:H22	41:CN:55:LYS:NZ	2.05	0.54
31:CA:895:G:H2'	31:CA:896:C:C6	2.43	0.54
31:CA:1036:G:H3'	31:CA:1037:C:C5	2.43	0.54
34:CG:110:PHE:CD2	34:CG:148:VAL:HG23	2.43	0.54
38:CK:33:GLU:O	38:CK:36:LEU:N	2.40	0.54
41:CN:105:VAL:O	41:CN:105:VAL:HG23	2.07	0.54
42:CO:43:LYS:HG2	42:CO:44:LYS:H	1.73	0.54
49:CV:41:VAL:HG21	49:CV:67:VAL:HG22	1.90	0.54
52:CB:50:A:C2	52:CB:52:U:H5''	2.42	0.54
31:DA:257:G:H2'	31:DA:258:G:O4'	2.07	0.54
31:DA:510:A:H5''	31:DA:511:C:P	2.47	0.54
31:DA:622:A:C8	31:DA:623:C:C6	2.95	0.54
31:DA:625:G:C4	31:DA:626:U:C5	2.96	0.54
31:DA:1300:G:HO2'	31:DA:1301:U:P	2.30	0.54
39:DL:20:ARG:O	39:DL:60:ASP:HB2	2.08	0.54
39:DL:125:TYR:CD2	39:DL:126:SER:N	2.69	0.54
43:DP:27:LYS:HE3	43:DP:31:LYS:HE3	1.89	0.54
53:DD:9:G:O2'	53:DD:10:G:H8	1.86	0.54
1:AA:125:G:H4'	1:AA:126:A:OP2	2.08	0.54
1:AA:654(H):G:H2'	1:AA:654(H):G:N3	2.22	0.54
1:AA:1077:A:H3'	1:AA:1078:U:H5''	1.86	0.54
1:AA:2346:A:H5''	1:AA:2383:G:C1'	2.38	0.54
1:AA:2873:A:C2	13:A0:5:LYS:HG2	2.43	0.54
2:AB:116:G:H2'	2:AB:117:G:O4'	2.08	0.54
9:AM:90:MET:HA	9:AM:93:THR:HG22	1.88	0.54
11:AO:49:ARG:HD2	30:A8:58:ILE:CG2	2.37	0.54
17:A2:35:LEU:HB2	17:A2:37:VAL:HG23	1.90	0.54
17:A2:44:LYS:CG	17:A2:45:THR:N	2.68	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:58:ALA:HB1	18:AS:64:MET:CB	2.38	0.54
22:A3:63:VAL:HG23	22:A3:64:ASP:O	2.07	0.54
24:AW:64:LEU:HD22	24:AW:68:ARG:HD2	1.89	0.54
1:BA:228:A:C8	1:BA:228:A:C3'	2.91	0.54
1:BA:271:G:H2'	1:BA:272:G:H8	1.72	0.54
1:BA:414:C:O2	1:BA:1864:U:O2'	2.23	0.54
1:BA:872:A:C5	1:BA:906:G:C2	2.95	0.54
1:BA:981:A:N1	1:BA:2027:G:O2'	2.38	0.54
1:BA:1300:U:H4'	1:BA:1301:A:H5'	1.86	0.54
1:BA:1664:A:H1'	1:BA:2726:U:C5	2.43	0.54
1:BA:1810:A:H2'	1:BA:1811:G:O4'	2.07	0.54
1:BA:2094:G:O2'	1:BA:2095:C:H5'	2.07	0.54
1:BA:2127:G:N2	1:BA:2173:A:H8	2.03	0.54
1:BA:2392:A:H2	1:BA:2424:C:N4	1.97	0.54
1:BA:2512:C:H4'	4:BE:122:PHE:CE2	2.43	0.54
1:BA:2658:C:OP1	7:BH:160:LYS:NZ	2.40	0.54
1:BA:2688:U:H2'	1:BA:2719:G:N2	2.23	0.54
2:BB:40:U:C4	2:BB:43:C:OP2	2.61	0.54
3:BD:30:GLU:HG3	3:BD:63:ARG:NH2	2.22	0.54
4:BE:70:ALA:C	4:BE:72:VAL:H	2.15	0.54
7:BH:137:ASP:CB	7:BH:140:LYS:HB2	2.37	0.54
8:BK:10:GLU:OE2	8:BK:11:ASN:HB2	2.07	0.54
11:BO:37:GLY:N	11:BO:40:SER:OG	2.41	0.54
11:BO:81:GLN:HB3	11:BO:106:LEU:HD22	1.87	0.54
13:B0:72:ASP:HB3	13:B0:75:LEU:HB3	1.88	0.54
24:BW:38:GLN:O	24:BW:41:ILE:HG12	2.08	0.54
31:CA:475:G:C4	31:CA:476:G:C8	2.96	0.54
31:CA:1145:C:H4'	31:CA:1146:A:H8	1.72	0.54
31:CA:1190:G:OP2	33:CF:5:ILE:HG23	2.08	0.54
34:CG:25:ARG:O	34:CG:27:TYR:N	2.40	0.54
35:CH:11:ILE:HD11	35:CH:31:LEU:HB3	1.90	0.54
35:CH:55:VAL:O	35:CH:58:ALA:HB3	2.08	0.54
36:CI:43:LEU:HD12	36:CI:43:LEU:N	2.23	0.54
39:CL:47:LEU:C	39:CL:49:PRO:HD2	2.33	0.54
42:CO:59:SER:HB2	42:CO:61:TYR:CD1	2.43	0.54
49:CV:10:PHE:H	49:CV:10:PHE:HD1	1.53	0.54
53:CC:59:A:H4'	53:CC:60:A:OP1	2.08	0.54
31:DA:332:G:OP2	50:DW:10:LEU:HD12	2.08	0.54
31:DA:509:A:HO2'	31:DA:510:A:P	2.26	0.54
31:DA:946:A:C2	31:DA:1236:A:C2	2.96	0.54
31:DA:1054:C:O2'	31:DA:1055:A:C5'	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DE:97:TRP:CZ3	32:DE:98:LEU:O	2.61	0.54
41:DN:34:ASP:HB2	41:DN:35:PRO:HD2	1.88	0.54
44:DQ:29:ARG:O	44:DQ:30:ALA:HB3	2.06	0.54
1:AA:602:G:HO2'	1:AA:604:G:HO2'	1.51	0.54
1:AA:705:A:H2'	1:AA:706:A:O4'	2.08	0.54
1:AA:822:U:H2'	1:AA:823:G:H5'	1.90	0.54
1:AA:1021:A:H3'	1:AA:1022:G:H5''	1.90	0.54
1:AA:1433:U:H1'	1:AA:1561:G:N2	2.22	0.54
1:AA:1642:G:C2'	1:AA:1643:G:H5'	2.38	0.54
1:AA:1727:U:H3'	1:AA:1728:G:H5''	1.90	0.54
1:AA:2228:G:OP1	3:AD:261:LYS:NZ	2.35	0.54
1:AA:2721:A:H2'	1:AA:2722:G:O4'	2.07	0.54
2:AB:11:C:O5'	2:AB:12:C:H5	1.91	0.54
4:AE:14:ILE:O	4:AE:15:PHE:CG	2.60	0.54
6:AG:78:SER:OG	53:CC:58:A:O4'	2.25	0.54
18:AS:75:TYR:CE2	18:AS:104:THR:HB	2.43	0.54
22:A3:36:ILE:C	22:A3:36:ILE:HD12	2.32	0.54
23:AZ:92:LYS:HA	23:AZ:95:LEU:CB	2.34	0.54
1:BA:192:C:H2'	1:BA:193:U:H5'	1.90	0.54
1:BA:205:G:C1'	1:BA:206:U:OP2	2.54	0.54
1:BA:460:A:C2	1:BA:470:A:C4	2.95	0.54
1:BA:887:A:H2'	1:BA:887:A:N3	2.21	0.54
1:BA:947:G:H2'	1:BA:948:G:C8	2.42	0.54
1:BA:1332:G:H21	1:BA:1610:A:H8	1.55	0.54
1:BA:1671:U:H2'	1:BA:1673:U:OP2	2.08	0.54
2:BB:40:U:O4	26:B4:1:MET:O	2.25	0.54
4:BE:1:MET:HB2	4:BE:200:GLU:OE2	2.08	0.54
7:BH:26:VAL:HG21	7:BH:75:ALA:O	2.08	0.54
8:BK:72:LEU:HD21	8:BK:107:VAL:HG11	1.89	0.54
14:BQ:83:LYS:HD2	14:BQ:109:GLY:N	2.22	0.54
16:B1:91:ASP:CG	16:B1:96:ALA:HB2	2.32	0.54
16:B1:95:LEU:HD22	17:B2:4:ILE:HG23	1.90	0.54
30:B8:54:GLU:O	30:B8:55:ALA:C	2.51	0.54
31:CA:68:G:C2	31:CA:69:G:C4	2.95	0.54
31:CA:342:C:N3	31:CA:348:G:N2	2.56	0.54
31:CA:606:G:N2	31:CA:631:G:C8	2.73	0.54
31:CA:627:G:O2'	31:CA:628:G:H5'	2.08	0.54
31:CA:736:C:H2'	31:CA:737:A:C8	2.43	0.54
31:CA:1141:C:O2'	31:CA:1142:G:H5'	2.07	0.54
31:CA:1525:G:P	41:CN:120:ARG:HH22	2.31	0.54
53:CD:42:C:H2'	53:CD:43:G:H8	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:655:A:C2	31:DA:754:C:N4	2.76	0.54
31:DA:1350:A:C5	31:DA:1351:U:C4	2.96	0.54
33:DF:101:LEU:HD23	33:DF:102:ASN:H	1.73	0.54
36:DI:2:ARG:HH21	36:DI:69:GLU:HG3	1.73	0.54
37:DJ:62:PHE:HA	37:DJ:124:LEU:HD22	1.89	0.54
38:DK:86:ILE:HG21	38:DK:133:LEU:HD22	1.89	0.54
38:DK:111:ILE:HG22	38:DK:112:LEU:H	1.72	0.54
1:AA:1510:A:OP1	1:AA:1510:A:O3'	2.24	0.54
1:AA:1983:C:O2'	1:AA:1984:G:H5'	2.08	0.54
1:AA:2065:C:H2'	1:AA:2066:C:C6	2.43	0.54
1:AA:2188:C:H2'	1:AA:2189:U:O4'	2.08	0.54
2:AB:95:U:N3	2:AB:96:G:N7	2.55	0.54
4:AE:78:LEU:O	4:AE:79:ARG:CB	2.55	0.54
11:AO:57:THR:C	11:AO:59:LEU:N	2.61	0.54
11:AO:125:VAL:O	11:AO:145:PRO:HD2	2.08	0.54
16:A1:60:LEU:HD21	16:A1:64:ARG:HH21	1.73	0.54
17:A2:39:LEU:O	17:A2:40:LEU:HD22	2.08	0.54
20:AU:5:MET:CE	20:AU:32:PRO:HA	2.38	0.54
28:A6:25:LYS:HD2	30:A8:34:TRP:NE1	2.09	0.54
1:BA:654(B):C:C2	1:BA:654(T):A:H2	2.26	0.54
1:BA:953:A:H2'	1:BA:954:G:H8	1.73	0.54
1:BA:1342:A:N1	1:BA:1397:U:C5	2.75	0.54
1:BA:1864:U:H2'	1:BA:1869:G:C5'	2.38	0.54
1:BA:2720:U:H2'	1:BA:2721:A:C8	2.43	0.54
1:BA:2728:U:O2'	1:BA:2729:G:H5'	2.07	0.54
1:BA:2761:G:H1'	7:BH:143:GLN:OE1	2.07	0.54
3:BD:35:LYS:CD	3:BD:64:ILE:H	2.18	0.54
4:BE:27:LEU:O	4:BE:27:LEU:HG	2.08	0.54
4:BE:48:GLN:O	4:BE:49:LEU:HD12	2.08	0.54
6:BG:63:ILE:HG13	6:BG:64:THR:N	2.22	0.54
9:BM:4:TYR:O	16:B1:64:ARG:NH1	2.38	0.54
10:BN:120:GLU:OE2	15:BR:67:SER:OG	2.24	0.54
16:B1:97:ASP:OD1	16:B1:101:ARG:NH2	2.41	0.54
31:CA:439:A:H2'	31:CA:440:A:O5'	2.08	0.54
31:CA:787:A:H5''	31:CA:787:A:H8	1.73	0.54
31:CA:991:U:H2'	31:CA:1212:U:O2	2.07	0.54
32:CE:16:HIS:ND1	32:CE:16:HIS:N	2.54	0.54
32:CE:150:SER:OG	32:CE:151:GLY:N	2.41	0.54
40:CM:32:ALA:HB3	40:CM:76:ASN:HB2	1.90	0.54
49:CV:40:ILE:HD11	49:CV:62:ILE:HG23	1.89	0.54
50:CW:100:ILE:CG1	50:CW:101:GLY:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:54:C:C5	31:DA:352:C:C5	2.96	0.54
31:DA:707:C:O2'	31:DA:708:C:H5'	2.08	0.54
31:DA:1004:A:C1'	31:DA:1036:G:H1	2.17	0.54
31:DA:1142:G:H3'	31:DA:1143:G:C8	2.43	0.54
37:DJ:100:ALA:O	37:DJ:104:LEU:HD22	2.08	0.54
39:DL:26:VAL:HG22	39:DL:61:ALA:HB3	1.90	0.54
53:DD:14:A:OP1	53:DD:14:A:H8	1.90	0.54
1:AA:34:C:O4'	1:AA:34:C:OP2	2.26	0.53
1:AA:314:A:O2'	1:AA:315:G:H5'	2.08	0.53
1:AA:821:A:O2'	1:AA:945:A:C3'	2.53	0.53
1:AA:1227:A:OP1	17:A2:84:LYS:HE2	2.08	0.53
1:AA:1298:C:H5''	1:AA:1299:G:OP2	2.08	0.53
1:AA:1340:U:H4'	1:AA:1341:U:OP2	2.08	0.53
1:AA:1889:A:N1	1:AA:2234:G:H1'	2.23	0.53
1:AA:2791:C:O2	1:AA:2807:G:N2	2.41	0.53
3:AD:134:ARG:HG3	3:AD:135:PHE:CE2	2.43	0.53
4:AE:79:ARG:CG	4:AE:197:ILE:HG21	2.37	0.53
4:AE:118:LYS:O	4:AE:118:LYS:HG2	2.07	0.53
1:BA:310:A:OP1	20:BU:17:SER:O	2.26	0.53
1:BA:881:G:O6	1:BA:895:U:O2	2.25	0.53
1:BA:1265:A:O4'	1:BA:1267:U:C6	2.61	0.53
1:BA:1599:C:H5''	19:BT:35:THR:HG22	1.90	0.53
1:BA:2208:U:O2'	1:BA:2209:C:H5'	2.09	0.53
1:BA:2392:A:OP1	30:B8:32:LEU:HD11	2.08	0.53
4:BE:79:ARG:HH11	4:BE:79:ARG:HG2	1.73	0.53
19:BT:63:LYS:HE3	19:BT:63:LYS:H	1.73	0.53
26:B4:34:GLU:HG3	43:DP:3:ARG:H	1.71	0.53
32:CE:78:GLN:HG2	32:CE:94:ASN:OD1	2.07	0.53
36:CI:72:VAL:HG13	36:CI:73:ASN:N	2.23	0.53
38:CK:4:ASP:CG	38:CK:85:ARG:HH11	2.15	0.53
31:DA:17:U:H2'	31:DA:18:C:C6	2.42	0.53
31:DA:279:A:N3	31:DA:279:A:H2'	2.23	0.53
31:DA:828:A:H61	31:DA:858:G:C2'	2.21	0.53
31:DA:1438:G:H2'	31:DA:1439:C:C6	2.43	0.53
32:DE:5:ILE:HD12	32:DE:59:GLU:CD	2.33	0.53
32:DE:80:ILE:HD12	32:DE:84:GLU:HG3	1.88	0.53
33:DF:14:ILE:CG1	33:DF:15:THR:H	2.21	0.53
1:AA:11:G:H2'	1:AA:12:U:O4'	2.08	0.53
1:AA:243:U:OP2	30:A8:8:LYS:NZ	2.40	0.53
1:AA:309:G:O2'	1:AA:329:G:C8	2.61	0.53
1:AA:654(I):C:H3'	1:AA:654(I):C:O2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:945:A:H3'	1:AA:946:G:H5''	1.89	0.53
1:AA:1019:U:O2'	1:AA:1021:A:C2	2.58	0.53
1:AA:1042:G:H2'	1:AA:1043:C:O4'	2.08	0.53
1:AA:1062:G:N3	1:AA:1077:A:N6	2.56	0.53
1:AA:1541:U:O2'	1:AA:1542:G:H5'	2.08	0.53
1:AA:2312:U:H5'	6:AG:88:ILE:CG2	2.39	0.53
2:AB:79:C:H6	2:AB:79:C:O5'	1.91	0.53
4:AE:64:LYS:C	4:AE:66:HIS:H	2.16	0.53
7:AH:59:ARG:CG	7:AH:59:ARG:NH1	2.61	0.53
9:AM:131:GLN:NE2	9:AM:132:ALA:N	2.52	0.53
16:A1:75:ASN:HB2	16:A1:78:THR:OG1	2.08	0.53
19:AT:57:LEU:HD11	19:AT:78:LYS:HB2	1.90	0.53
24:AW:42:GLY:C	24:AW:44:LEU:N	2.66	0.53
1:BA:78:A:H2'	1:BA:79:G:H8	1.74	0.53
1:BA:479:A:H4'	1:BA:480:A:OP1	2.05	0.53
1:BA:676:A:N1	1:BA:802:A:N1	2.56	0.53
1:BA:1085:A:C4'	1:BA:1086:A:OP1	2.55	0.53
1:BA:2892:A:N7	1:BA:2893:G:C5	2.77	0.53
2:BB:15:A:H1'	2:BB:109:G:C8	2.42	0.53
2:BB:56:G:H4'	2:BB:57:A:C8	2.43	0.53
3:BD:35:LYS:HD2	3:BD:104:TYR:CE1	2.35	0.53
4:BE:8:LYS:HB3	4:BE:192:ASN:HA	1.89	0.53
6:BG:91:ARG:HD2	6:BG:92:VAL:N	2.23	0.53
10:BN:68:GLU:CA	10:BN:78:ARG:HB3	2.38	0.53
12:BP:7:MET:CB	12:BP:10:ARG:NH2	2.70	0.53
14:BQ:110:LEU:HD22	14:BQ:112:PHE:H	1.73	0.53
15:BR:45:PHE:CD2	15:BR:45:PHE:C	2.86	0.53
21:BV:61:LEU:HD11	21:BV:67:LEU:HD12	1.90	0.53
23:BZ:85:LEU:CD1	23:BZ:88:LYS:HG3	2.39	0.53
26:B4:61:ARG:HH11	26:B4:61:ARG:HA	1.73	0.53
31:CA:93:U:H2'	31:CA:95:G:C4'	2.37	0.53
31:CA:468:A:OP1	46:CS:75:ARG:NH2	2.41	0.53
31:CA:1060:C:C6	33:CF:2:GLY:HA2	2.42	0.53
31:CA:1349:A:OP2	39:CL:118:LYS:NZ	2.40	0.53
31:CA:1402:C:H2'	31:CA:1403:C:O4'	2.09	0.53
32:CE:98:LEU:HG	32:CE:101:MET:HE3	1.89	0.53
33:CF:23:TYR:C	33:CF:23:TYR:CD2	2.86	0.53
34:CG:24:GLU:O	34:CG:27:TYR:HB2	2.06	0.53
42:CO:59:SER:C	42:CO:61:TYR:H	2.16	0.53
43:CP:78:ILE:HG22	43:CP:82:MET:HE3	1.90	0.53
53:CC:48:U:OP2	53:CC:48:U:C6	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1089:G:C6	31:DA:1090:U:C4	2.96	0.53
53:DD:6:G:C2	53:DD:7:G:N7	2.77	0.53
1:AA:141:A:C8	1:AA:1408:C:H1'	2.44	0.53
1:AA:807:U:C2'	1:AA:808:G:O5'	2.56	0.53
1:AA:847:U:C5	1:AA:933:A:C2	2.97	0.53
1:AA:879:G:OP2	1:AA:879:G:C8	2.62	0.53
1:AA:1070:A:C3'	1:AA:1071:G:H5''	2.39	0.53
1:AA:1441:G:H2'	1:AA:1442:G:H8	1.74	0.53
1:AA:1581:G:C5	1:AA:1582:C:C5	2.97	0.53
1:AA:1690:A:H3'	1:AA:1691:C:H6	1.73	0.53
1:AA:1771:C:O2'	1:AA:1786:A:H8	1.91	0.53
1:AA:2661:G:H2'	1:AA:2662:A:C8	2.42	0.53
3:AD:28:GLU:O	3:AD:29:PRO:C	2.50	0.53
5:AF:36:VAL:HG11	5:AF:183:VAL:HG11	1.90	0.53
5:AF:192:LEU:CD2	5:AF:194:MET:HG3	2.39	0.53
8:AK:76:THR:HG22	8:AK:77:LEU:N	2.24	0.53
9:AM:30:ILE:O	9:AM:34:LEU:HD22	2.09	0.53
13:A0:117:VAL:HG13	13:A0:118:GLU:N	2.22	0.53
21:AV:62:PRO:C	21:AV:64:GLY:N	2.59	0.53
1:BA:309:G:O3'	20:BU:18:GLY:CA	2.56	0.53
1:BA:912:C:N3	1:BA:913:U:C5	2.77	0.53
1:BA:1071:G:OP2	1:BA:1097:U:H5'	2.07	0.53
1:BA:1106:G:H2'	1:BA:1107:G:O4'	2.08	0.53
1:BA:1218:C:O2'	1:BA:1219:G:H5'	2.08	0.53
1:BA:1358:G:N2	1:BA:1372:U:C5	2.75	0.53
1:BA:2259:G:H1'	1:BA:2427:C:C2	2.42	0.53
1:BA:2311:A:HO2'	1:BA:2312:U:H5'	1.73	0.53
1:BA:2437:U:H2'	1:BA:2438:U:C6	2.43	0.53
2:BB:87:G:H3'	2:BB:88:C:C5'	2.39	0.53
7:BH:137:ASP:HB2	7:BH:140:LYS:CE	2.34	0.53
8:BK:82:ARG:HG2	31:CA:55:A:H2	1.73	0.53
12:BP:27:VAL:HA	12:BP:105:GLU:OE2	2.07	0.53
12:BP:66:ILE:O	12:BP:67:ARG:HG3	2.07	0.53
14:BQ:44:LYS:O	14:BQ:46:VAL:HG23	2.09	0.53
17:B2:85:LYS:C	17:B2:87:HIS:N	2.66	0.53
22:B3:42:GLY:H	22:B3:57:PHE:HD2	1.55	0.53
31:CA:66:G:C6	31:CA:67:C:C5	2.96	0.53
31:CA:429:U:H4'	31:CA:430:A:OP1	2.07	0.53
31:CA:1059:C:O2'	40:CM:53:PRO:HD3	2.09	0.53
31:CA:1218:C:H2'	31:CA:1219:U:C6	2.44	0.53
31:CA:1226:C:N4	43:CP:104:ARG:HG3	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1368:G:OP2	39:CL:112:LYS:HD3	2.09	0.53
31:CA:1499:A:H1'	31:CA:1520:G:O5'	2.09	0.53
33:CF:15:THR:O	33:CF:15:THR:HG23	2.08	0.53
36:CI:8:ILE:HD11	36:CI:79:LEU:HD13	1.91	0.53
42:CO:43:LYS:HG2	42:CO:44:LYS:N	2.23	0.53
46:CS:49:LEU:HD12	46:CS:50:LYS:N	2.23	0.53
52:CB:14:A:H61	52:CB:21:A:H61	1.50	0.53
31:DA:105:G:H2'	31:DA:106:C:C6	2.43	0.53
31:DA:853:G:H2'	31:DA:854:G:H8	1.71	0.53
31:DA:983:A:H3'	31:DA:983:A:N3	2.24	0.53
31:DA:1142:G:H3'	31:DA:1143:G:H8	1.73	0.53
31:DA:1268:A:O2'	51:DX:19:GLY:HA2	2.08	0.53
32:DE:12:GLU:O	32:DE:15:VAL:N	2.32	0.53
33:DF:117:ALA:HB2	33:DF:200:ALA:CB	2.36	0.53
33:DF:184:TYR:HA	33:DF:200:ALA:O	2.07	0.53
34:DG:78:LEU:HD23	34:DG:96:LEU:HB3	1.91	0.53
38:DK:29:SER:HB3	38:DK:32:LYS:HG3	1.89	0.53
42:DO:40:VAL:HG21	42:DO:78:GLN:C	2.34	0.53
45:DR:21:ASP:OD1	45:DR:24:SER:HB2	2.09	0.53
1:AA:222:A:H3'	1:AA:421:U:O5'	2.09	0.53
1:AA:1710:C:O2'	1:AA:1711:C:H5'	2.09	0.53
1:AA:2317:C:C2'	1:AA:2318:G:C5'	2.73	0.53
1:AA:2563:U:H1'	1:AA:2566:A:N6	2.24	0.53
2:AB:75:G:H21	21:AV:85:HIS:CE1	2.27	0.53
5:AF:179:GLU:CD	5:AF:179:GLU:H	2.16	0.53
6:AG:172:LEU:O	6:AG:176:LEU:HD12	2.08	0.53
13:A0:79:LEU:HA	13:A0:83:ILE:HG13	1.90	0.53
18:AS:88:ARG:HB3	18:AS:92:ARG:HB3	1.90	0.53
19:AT:82:GLN:HA	19:AT:82:GLN:NE2	2.22	0.53
1:BA:298:G:H5''	1:BA:299:A:OP1	2.07	0.53
1:BA:363(B):G:H2'	1:BA:363(C):G:H8	1.72	0.53
1:BA:558:G:P	9:BM:111:PRO:HD2	2.48	0.53
1:BA:654(D):G:H1	1:BA:654(Q):C:N4	2.05	0.53
1:BA:764:A:O4'	3:BD:213:ARG:HG3	2.07	0.53
1:BA:854:G:H2'	1:BA:855:G:C8	2.43	0.53
1:BA:888:C:H4'	1:BA:889:C:O5'	2.04	0.53
1:BA:1088:A:H4'	1:BA:1089:G:H8	1.73	0.53
1:BA:1198:U:H2'	1:BA:1199:U:C6	2.43	0.53
1:BA:1226:G:P	17:B2:85:LYS:HD3	2.48	0.53
1:BA:2314:C:O2'	1:BA:2315:G:H5'	2.08	0.53
1:BA:2443:C:OP1	5:BF:68:LYS:CG	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2694:G:C5	1:BA:2695:C:C5	2.97	0.53
6:BG:33:ARG:H	6:BG:162:THR:HG23	1.73	0.53
7:BH:130:ARG:NH1	7:BH:130:ARG:HB3	2.24	0.53
17:B2:35:LEU:O	17:B2:37:VAL:HG13	2.08	0.53
31:CA:522:C:H1'	31:CA:536:C:H5''	1.89	0.53
31:CA:1052:U:O4	31:CA:1200:C:C2	2.61	0.53
31:CA:1096:C:H2'	31:CA:1097:C:C6	2.37	0.53
31:CA:1255:G:OP1	40:CM:45:ARG:NH2	2.37	0.53
31:CA:1389:C:H2'	31:CA:1390:U:O4'	2.09	0.53
42:CO:67:ILE:HD13	42:CO:74:LEU:HD12	1.91	0.53
43:CP:82:MET:HE2	43:CP:92:HIS:HB3	1.91	0.53
47:CT:76:LEU:CD1	47:CT:78:GLU:N	2.68	0.53
49:CV:28:LYS:HG2	49:CV:47:HIS:CE1	2.43	0.53
31:DA:634:C:H2'	31:DA:635:G:H8	1.73	0.53
31:DA:742:G:OP1	45:DR:35:ARG:NH2	2.41	0.53
31:DA:1131:G:C8	31:DA:1132:C:H5	2.27	0.53
32:DE:92:TYR:O	32:DE:92:TYR:HD2	1.91	0.53
33:DF:75:VAL:HG12	33:DF:75:VAL:O	2.09	0.53
35:DH:40:ARG:HH11	35:DH:40:ARG:HG2	1.73	0.53
50:DW:26:ASN:ND2	50:DW:26:ASN:H	2.05	0.53
1:AA:966:G:H2'	1:AA:967:C:C6	2.44	0.53
1:AA:1113:U:OP1	7:AH:2:SER:N	2.42	0.53
1:AA:1257:C:H4'	5:AF:83:PHE:CE2	2.44	0.53
1:AA:1312:U:OP2	19:AT:63:LYS:HD3	2.09	0.53
1:AA:1496:A:C8	1:AA:1577:C:O2'	2.54	0.53
1:AA:2074:U:H2'	1:AA:2075:U:C6	2.44	0.53
3:AD:25:THR:O	3:AD:26:LYS:C	2.48	0.53
3:AD:236:GLY:O	3:AD:237:GLU:O	2.25	0.53
4:AE:4:ILE:HG12	4:AE:5:LEU:H	1.72	0.53
5:AF:160:ASN:OD1	5:AF:163:VAL:HG23	2.09	0.53
6:AG:67:LYS:CG	26:A4:6:HIS:CE1	2.84	0.53
8:AK:61:ARG:HA	8:AK:61:ARG:NE	2.23	0.53
8:AK:77:LEU:CD1	8:AK:140:LEU:HB2	2.39	0.53
8:AK:114:LEU:O	8:AK:115:ALA:CB	2.56	0.53
11:AO:138:LEU:C	11:AO:140:ALA:N	2.64	0.53
13:A0:74:LYS:C	13:A0:76:VAL:N	2.64	0.53
17:A2:67:GLY:O	17:A2:88:ARG:HB3	2.09	0.53
21:AV:27:VAL:HG12	21:AV:87:ASP:HB3	1.90	0.53
21:AV:152:ALA:HB3	21:AV:167:PRO:O	2.08	0.53
23:AZ:49:VAL:HG11	23:AZ:70:VAL:HG11	1.89	0.53
1:BA:483:A:C5'	20:BU:49:VAL:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1047:G:H2'	1:BA:1110:G:H1	1.72	0.53
1:BA:1225:C:O2'	17:B2:85:LYS:N	2.37	0.53
1:BA:2282:G:H4'	1:BA:2283:C:O5'	2.08	0.53
1:BA:2485:G:H5''	12:BP:46:GLN:NE2	2.23	0.53
1:BA:2808:U:H2'	1:BA:2809:A:H8	1.73	0.53
1:BA:2859:G:O2'	1:BA:2860:A:O5'	2.26	0.53
1:BA:2875:C:HO2'	15:BR:3:ARG:HG3	1.73	0.53
2:BB:21:G:H2'	2:BB:22:U:O4'	2.08	0.53
5:BF:118:ALA:HB2	5:BF:123:LEU:CD2	2.39	0.53
7:BH:137:ASP:HB3	7:BH:140:LYS:HB2	1.89	0.53
11:BO:81:GLN:OE1	11:BO:106:LEU:CA	2.57	0.53
26:B4:57:GLU:O	26:B4:60:GLN:N	2.41	0.53
31:CA:201:C:N3	31:CA:216:G:N2	2.49	0.53
31:CA:518:C:H5''	31:CA:519:C:C6	2.43	0.53
31:CA:674:G:H2'	31:CA:675:A:C8	2.44	0.53
34:CG:8:VAL:HG13	34:CG:21:LEU:HD13	1.90	0.53
39:CL:8:GLY:HA3	39:CL:79:LEU:HB3	1.89	0.53
40:CM:45:ARG:HE	44:CQ:36:PHE:HD2	1.56	0.53
52:CB:5:A:H2'	52:CB:6:G:O4'	2.09	0.53
31:DA:383:A:H8	31:DA:383:A:O5'	1.92	0.53
31:DA:652:U:O2'	31:DA:653:A:N3	2.38	0.53
31:DA:976:G:N2	31:DA:1362(A):C:OP2	2.33	0.53
31:DA:1145:C:O2	31:DA:1145:C:H2'	2.09	0.53
31:DA:1184:G:H2'	31:DA:1185:G:H5'	1.91	0.53
31:DA:1262:C:H2'	31:DA:1263:C:H6	1.73	0.53
32:DE:118:LEU:HD11	32:DE:141:GLU:HG2	1.91	0.53
33:DF:23:TYR:CD2	33:DF:24:ALA:N	2.76	0.53
53:DD:61:U:O2'	53:DD:62:C:H5'	2.08	0.53
1:AA:465:G:C6	1:AA:466:A:N6	2.77	0.53
1:AA:654(D):G:H1	1:AA:654(Q):C:H42	1.57	0.53
1:AA:1424:G:H2'	1:AA:1425:G:O4'	2.09	0.53
1:AA:1510:A:H2'	1:AA:1510:A:N3	2.23	0.53
1:AA:1834:U:H4'	1:AA:1969:A:C6	2.43	0.53
1:AA:2119:A:N6	1:AA:2170:A:C6	2.76	0.53
1:AA:2311:A:C5	6:AG:80:PHE:CE1	2.95	0.53
1:AA:2567:G:H2'	1:AA:2568:C:C6	2.43	0.53
1:AA:2663:G:C6	1:AA:2664:G:C4	2.97	0.53
3:AD:26:LYS:O	3:AD:27:THR:OG1	2.26	0.53
3:AD:35:LYS:HZ3	3:AD:104:TYR:HB2	1.69	0.53
6:AG:97:ASP:HA	6:AG:100:TRP:HD1	1.73	0.53
6:AG:128:ARG:NH2	6:AG:128:ARG:HB2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:135:GLU:CD	8:AK:135:GLU:N	2.67	0.53
8:AK:140:LEU:N	8:AK:140:LEU:CD2	2.71	0.53
11:AO:18:ARG:NH1	11:AO:21:ARG:HH11	2.07	0.53
20:AU:95:LYS:HA	20:AU:100:ALA:HA	1.91	0.53
24:AW:42:GLY:C	24:AW:44:LEU:H	2.15	0.53
30:A8:14:VAL:CG1	30:A8:60:LEU:CD1	2.78	0.53
1:BA:442:G:O4'	5:BF:46:ARG:HD3	2.08	0.53
1:BA:1434:A:O2'	1:BA:1435:G:H5'	2.08	0.53
1:BA:1568:G:H5'	3:BD:60:ARG:HA	1.89	0.53
1:BA:1585:C:O2	1:BA:1585:C:H3'	2.09	0.53
1:BA:2032:G:H21	4:BE:146:THR:HG23	1.74	0.53
1:BA:2286:A:H4'	1:BA:2287:A:O4'	2.08	0.53
1:BA:2286:A:H5'	28:B6:28:ARG:HE	1.73	0.53
1:BA:2319:G:H4'	1:BA:2320:A:O4'	2.08	0.53
1:BA:2795:G:C3'	1:BA:2797:U:H5''	2.33	0.53
2:BB:66:A:C2	2:BB:108:C:C4	2.97	0.53
4:BE:62:PRO:C	4:BE:64:LYS:N	2.60	0.53
8:BK:81:VAL:HG23	8:BK:143:SER:OG	2.09	0.53
11:BO:64:LYS:HB2	30:B8:25:MET:SD	2.49	0.53
12:BP:78:PRO:O	12:BP:79:LEU:CG	2.57	0.53
16:B1:88:ILE:HG22	17:B2:48:GLY:O	2.09	0.53
19:BT:21:PHE:HZ	19:BT:92:LEU:HD22	1.73	0.53
27:B5:4:HIS:O	27:B5:6:VAL:CG2	2.40	0.53
31:CA:41:G:H2'	31:CA:42:G:C8	2.44	0.53
31:CA:270:A:C5	31:CA:271:C:C4	2.97	0.53
31:CA:329:A:C5	31:CA:332:G:C6	2.97	0.53
31:CA:923:A:O2'	31:CA:1399:C:OP2	2.24	0.53
31:CA:1074:G:N3	31:CA:1102:A:C2	2.77	0.53
31:CA:1490:C:OP2	56:CA:1841:PAR:N64	2.41	0.53
32:CE:223:ILE:O	32:CE:227:GLY:N	2.40	0.53
40:CM:80:LYS:HE2	31:DA:1163:C:H4'	1.90	0.53
47:CT:7:THR:OG1	47:CT:58:GLU:HG2	2.09	0.53
53:CC:26:C:H2'	53:CC:27:G:O4'	2.09	0.53
31:DA:243:A:H4'	31:DA:244:U:O5'	2.08	0.53
31:DA:625:G:H2'	31:DA:626:U:C6	2.42	0.53
31:DA:814:A:H2'	31:DA:816:A:C5'	2.39	0.53
31:DA:837:G:C2	31:DA:850:U:O2	2.62	0.53
31:DA:1112:C:C2	33:DF:178:LEU:HB2	2.44	0.53
32:DE:167:PRO:HG2	32:DE:192:SER:OG	2.09	0.53
34:DG:13:ARG:HD3	34:DG:13:ARG:N	2.21	0.53
40:DM:57:LYS:HE3	40:DM:60:ARG:HH22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DN:17:GLY:O	41:DN:80:VAL:HA	2.09	0.53
48:DU:58:LEU:H	48:DU:58:LEU:HD12	1.72	0.53
50:DW:53:LEU:HB3	50:DW:102:GLY:HA3	1.91	0.53
52:DB:15:A:OP2	52:DB:16:U:C5	2.62	0.53
1:AA:641:C:C2'	1:AA:642:G:H5'	2.38	0.53
1:AA:960:A:H5''	1:AA:961:C:OP1	2.09	0.53
1:AA:1060:U:C4'	1:AA:1061:U:O5'	2.56	0.53
1:AA:1141:U:OP2	9:AM:63:THR:CG2	2.56	0.53
1:AA:2306:C:H3'	1:AA:2307:G:H5''	1.89	0.53
1:AA:2346:A:H8	28:A6:24:GLU:OE1	1.92	0.53
2:AB:1:U:H2'	2:AB:2:C:C6	2.44	0.53
6:AG:70:VAL:HG21	6:AG:87:PRO:HB3	1.89	0.53
8:AK:46:ALA:O	8:AK:50:ARG:HD3	2.08	0.53
8:AK:88:ILE:HG13	8:AK:122:GLU:N	2.24	0.53
9:AM:36:GLY:H	9:AM:49:GLY:HA2	1.74	0.53
9:AM:58:ASP:H	9:AM:60:ILE:CD1	2.21	0.53
23:AZ:85:LEU:C	23:AZ:87:PRO:N	2.65	0.53
1:BA:79:G:H1	1:BA:107:C:H42	1.57	0.53
1:BA:708:C:H5'	1:BA:709:U:OP2	2.08	0.53
1:BA:971:C:H2'	1:BA:972:G:C5'	2.39	0.53
1:BA:998:C:H2'	1:BA:999:U:O5'	2.08	0.53
1:BA:1011:G:H1	1:BA:1150:C:N4	2.07	0.53
1:BA:1540:G:H2'	1:BA:1541:U:O4'	2.09	0.53
1:BA:1856:G:H2'	1:BA:1857:G:H5'	1.91	0.53
1:BA:2212:A:H4'	1:BA:2213:U:C5	2.42	0.53
1:BA:2387:U:H1'	22:B3:41:ARG:HD2	1.91	0.53
3:BD:118:VAL:HG22	3:BD:119:ALA:N	2.23	0.53
6:BG:7:LEU:HB2	6:BG:104:GLU:CD	2.34	0.53
11:BO:55:ARG:O	11:BO:56:SER:C	2.51	0.53
11:BO:96:THR:OG1	11:BO:97:PRO:N	2.42	0.53
12:BP:68:ILE:HG21	12:BP:103:MET:HB3	1.90	0.53
15:BR:53:ARG:O	15:BR:53:ARG:HG3	2.09	0.53
28:B6:44:ARG:O	28:B6:45:LYS:CG	2.57	0.53
31:CA:181:G:O2'	31:CA:182:U:O5'	2.25	0.53
31:CA:664:G:N2	31:CA:741:G:H1	2.00	0.53
31:CA:872:A:C5	31:CA:874:G:C8	2.97	0.53
31:CA:1175:G:C2	31:CA:1176:A:C6	2.96	0.53
31:CA:1252:A:H2'	31:CA:1253:G:O4'	2.09	0.53
31:CA:1346:A:O4'	31:CA:1348:U:C6	2.62	0.53
32:CE:31:TYR:O	32:CE:42:ILE:HG13	2.08	0.53
36:CI:22:GLU:OE1	36:CI:82:ARG:NH2	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:9:MET:SD	38:CK:32:LYS:HG2	2.49	0.53
40:CM:80:LYS:CE	31:DA:1163:C:H4'	2.38	0.53
52:CB:77:C:N4	52:CB:78:C:N4	2.57	0.53
53:CD:53:G:C4	53:CD:64:G:N2	2.77	0.53
31:DA:413:G:H22	31:DA:429:U:H5''	1.74	0.53
31:DA:711:G:O2'	31:DA:712:A:H5'	2.08	0.53
31:DA:986:A:N3	49:DV:52:TYR:OH	2.37	0.53
31:DA:1028:C:N3	31:DA:1034:G:N2	2.57	0.53
31:DA:1258:G:HO2'	31:DA:1259:C:H5'	1.72	0.53
31:DA:1446:A:OP1	31:DA:1446:A:C4'	2.56	0.53
32:DE:51:LEU:HG	32:DE:201:ILE:HG23	1.91	0.53
42:DO:8:ASN:ND2	47:DT:34:LYS:HE2	2.23	0.53
53:DD:62:C:H2'	53:DD:63:C:C6	2.43	0.53
1:AA:558:G:P	9:AM:111:PRO:HG2	2.49	0.53
1:AA:641:C:H2'	1:AA:642:G:H5'	1.91	0.53
1:AA:973:A:O4'	1:AA:1188:U:C6	2.61	0.53
1:AA:1336:A:H2'	1:AA:1337:G:C8	2.44	0.53
1:AA:1458:C:C4'	1:AA:1459:G:H5'	2.39	0.53
1:AA:1820:U:C2	3:AD:202:LYS:HB3	2.44	0.53
1:AA:2402:C:HO2'	1:AA:2403:C:P	2.27	0.53
1:AA:2747:G:O6	1:AA:2755:C:H5''	2.08	0.53
1:AA:2810:A:O3'	4:AE:61:ARG:HG2	2.08	0.53
1:AA:2836:U:C4	1:AA:2883:A:N6	2.77	0.53
1:AA:2877:G:O2'	1:AA:2878:U:H5'	2.07	0.53
3:AD:137:PRO:HG2	3:AD:140:THR:CG2	2.39	0.53
6:AG:99:MET:HG3	6:AG:100:TRP:N	2.24	0.53
8:AK:92:VAL:HG22	8:AK:92:VAL:O	2.08	0.53
14:AQ:83:LYS:C	14:AQ:109:GLY:HA2	2.33	0.53
16:A1:112:ARG:HH11	16:A1:112:ARG:HG2	1.72	0.53
17:A2:18:LEU:HD22	17:A2:19:LYS:N	2.24	0.53
18:AS:13:SER:HB3	18:AS:16:LYS:CD	2.39	0.53
18:AS:58:ALA:CA	18:AS:64:MET:HG3	2.39	0.53
26:A4:12:ALA:CB	26:A4:29:PRO:HA	2.38	0.53
1:BA:30:G:H2'	1:BA:31:C:C6	2.44	0.53
1:BA:323:G:HO2'	1:BA:1205:U:H3	1.57	0.53
1:BA:620:G:H4'	1:BA:621:A:O5'	2.08	0.53
1:BA:1048:A:H5'	1:BA:1049:C:OP2	2.09	0.53
1:BA:1263:U:C4	1:BA:1264:G:C6	2.97	0.53
1:BA:1337:G:H2'	1:BA:1338:G:H8	1.73	0.53
1:BA:1378:A:OP1	29:B7:10:ARG:NH2	2.42	0.53
1:BA:1534:G:H5'	1:BA:1535:U:OP2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2138:C:H42	1:BA:2153:G:H1	1.56	0.53
1:BA:2745:C:O2'	7:BH:142:GLY:HA3	2.08	0.53
3:BD:183:ARG:HG2	3:BD:184:LYS:N	2.24	0.53
4:BE:101:ARG:HB2	4:BE:203:LYS:HE3	1.90	0.53
12:BP:43:THR:OG1	12:BP:45:GLN:HG2	2.09	0.53
17:B2:85:LYS:O	17:B2:87:HIS:N	2.41	0.53
26:B4:23:GLU:HG3	26:B4:24:THR:H	1.73	0.53
26:B4:52:THR:OG1	43:DP:65:LYS:HE3	2.08	0.53
30:B8:32:LEU:C	30:B8:36:LYS:CE	2.82	0.53
31:CA:458:C:H2'	31:CA:464:G:H8	1.74	0.53
31:CA:605:U:H2'	31:CA:606:G:O4'	2.09	0.53
31:CA:618:C:H3'	31:CA:619:U:C5'	2.39	0.53
31:CA:922:G:N1	31:CA:923:A:C2	2.77	0.53
32:CE:200:ILE:HD12	32:CE:200:ILE:N	2.23	0.53
37:CJ:38:LEU:O	37:CJ:42:ILE:HG13	2.09	0.53
31:DA:298:A:H8	31:DA:298:A:O5'	1.91	0.53
31:DA:964:A:N3	31:DA:969:A:O2'	2.38	0.53
31:DA:980:C:H5'	31:DA:981:U:OP2	2.08	0.53
31:DA:1381:U:H2'	31:DA:1382:C:H5'	1.91	0.53
32:DE:166:ASP:CG	32:DE:169:LYS:HB2	2.34	0.53
33:DF:199:LYS:HB3	33:DF:201:TYR:HE1	1.73	0.53
35:DH:93:PRO:HG2	38:DK:105:ARG:NE	2.24	0.53
38:DK:82:HIS:O	38:DK:82:HIS:HD2	1.92	0.53
38:DK:111:ILE:HG22	38:DK:112:LEU:N	2.24	0.53
1:AA:55:G:H2'	1:AA:56:A:H8	1.74	0.53
1:AA:528:A:C2	1:AA:2043:C:H4'	2.43	0.53
1:AA:787:U:H5''	1:AA:788:A:H5'	1.91	0.53
1:AA:883:G:N2	1:AA:893:C:N3	2.51	0.53
1:AA:890:A:C8	1:AA:892:G:C8	2.97	0.53
1:AA:904:C:H5''	1:AA:904:C:H6	1.73	0.53
1:AA:1019:U:O2'	1:AA:1021:A:H2	1.90	0.53
1:AA:1858:G:HO2'	1:AA:1859:A:H8	1.52	0.53
1:AA:2275:C:O2	12:AP:85:LYS:HG2	2.09	0.53
1:AA:2468:G:H2'	1:AA:2476:A:C6	2.44	0.53
3:AD:16:MET:HE3	3:AD:211:ARG:HD3	1.91	0.53
4:AE:78:LEU:C	4:AE:78:LEU:HD23	2.33	0.53
5:AF:9:ILE:HD13	5:AF:20:LEU:HB3	1.91	0.53
5:AF:47:GLY:HA3	5:AF:95:ARG:O	2.09	0.53
12:AP:59:ARG:O	12:AP:61:GLY:N	2.41	0.53
18:AS:26:GLY:HA2	18:AS:71:VAL:O	2.08	0.53
20:AU:97:ARG:HH21	20:AU:98:VAL:HG23	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AZ:87:PRO:HA	23:AZ:90:ILE:HB	1.91	0.53
1:BA:270(T):G:C6	1:BA:270(U):C:C4	2.97	0.53
1:BA:637:A:H4'	1:BA:638:G:O5'	2.09	0.53
1:BA:872:A:C4	1:BA:906:G:C2	2.97	0.53
1:BA:1070:A:H8	1:BA:1096:A:O2'	1.91	0.53
1:BA:1261:C:C2'	1:BA:1262:A:O5'	2.57	0.53
1:BA:1337:G:H2'	1:BA:1338:G:C8	2.44	0.53
1:BA:1834:U:H2'	1:BA:1834:U:O2	2.09	0.53
1:BA:2236:C:H2'	1:BA:2237:G:O4'	2.09	0.53
1:BA:2346:A:H5'	1:BA:2383:G:H1'	1.90	0.53
1:BA:2410:G:H2'	1:BA:2411:A:O4'	2.09	0.53
12:BP:110:THR:O	12:BP:113:GLN:HB2	2.09	0.53
14:BQ:38:GLN:HG3	14:BQ:47:THR:HG21	1.89	0.53
21:BV:110:GLY:HA2	21:BV:144:LEU:C	2.34	0.53
31:CA:73:G:H2'	31:CA:74:C:C6	2.44	0.53
31:CA:179:A:H2'	31:CA:180:U:C6	2.44	0.53
31:CA:620:C:C6	34:CG:135:LEU:HD23	2.43	0.53
31:CA:1005:A:C2	31:CA:1006:C:C2	2.96	0.53
31:CA:1053:G:C6	31:CA:1199:U:C2	2.97	0.53
31:CA:1126:U:H5	31:CA:1127:G:C4	2.27	0.53
32:CE:22:LYS:HA	32:CE:22:LYS:HZ3	1.74	0.53
34:CG:10:ARG:CB	34:CG:10:ARG:CZ	2.87	0.53
43:CP:14:ARG:HB2	43:CP:17:VAL:CG2	2.28	0.53
45:CR:6:GLU:CD	45:CR:6:GLU:H	2.16	0.53
50:CW:96:GLY:O	50:CW:97:ALA:HB3	2.09	0.53
31:DA:123:C:O5'	31:DA:123:C:H6	1.90	0.53
33:DF:54:ARG:HB2	33:DF:69:HIS:CG	2.44	0.53
34:DG:101:LEU:HD23	34:DG:121:VAL:HG13	1.89	0.53
43:DP:70:LEU:HD13	43:DP:71:ARG:N	2.23	0.53
53:DD:15:G:H2'	53:DD:60:A:H2	1.69	0.53
1:AA:484:C:H2'	1:AA:485:C:C6	2.44	0.53
1:AA:1388:G:C2'	1:AA:1389:G:H5'	2.39	0.53
1:AA:1678:G:N2	1:AA:1989:G:N2	2.55	0.53
1:AA:1835:G:H2'	1:AA:1835:G:N3	2.24	0.53
1:AA:2619:C:O2'	1:AA:2620:C:H5'	2.09	0.53
1:AA:2886:G:N3	1:AA:2887:U:C6	2.77	0.53
3:AD:176:ARG:HG2	3:AD:176:ARG:NH1	2.24	0.53
8:AK:99:GLU:O	8:AK:100:ALA:C	2.51	0.53
11:AO:127:ALA:O	11:AO:147:LEU:HB2	2.09	0.53
16:A1:68:ALA:O	16:A1:71:GLN:HB2	2.08	0.53
16:A1:79:PHE:HE2	16:A1:83:LEU:CD2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:44:LYS:HD2	30:A8:44:LYS:N	2.24	0.53
1:BA:55:G:H2'	1:BA:56:A:C8	2.43	0.53
1:BA:601:C:O2	1:BA:605:C:H4'	2.09	0.53
1:BA:1011:G:OP1	16:B1:75:ASN:HB3	2.09	0.53
1:BA:1357:U:H2'	1:BA:1358:G:O4'	2.09	0.53
1:BA:1404:C:O2	1:BA:1404:C:H2'	2.08	0.53
1:BA:2371:G:C4'	28:B6:45:LYS:HG3	2.38	0.53
1:BA:2422:A:C4'	1:BA:2423:U:OP1	2.54	0.53
1:BA:2798:C:H5	1:BA:2799:A:N6	2.06	0.53
1:BA:2836:U:C4	1:BA:2883:A:N6	2.77	0.53
4:BE:90:THR:HG22	4:BE:90:THR:O	2.08	0.53
8:BK:40:THR:O	8:BK:44:LEU:HB2	2.09	0.53
12:BP:39:PRO:HA	12:BP:97:VAL:O	2.08	0.53
14:BQ:106:ARG:CB	14:BQ:110:LEU:HD11	2.39	0.53
17:B2:44:LYS:O	17:B2:46:VAL:HG12	2.09	0.53
31:CA:160:A:H2'	31:CA:161:A:O4'	2.09	0.53
31:CA:191:G:N3	50:CW:105:SER:HB2	2.24	0.53
31:CA:1058:G:C6	31:CA:1059:C:N3	2.77	0.53
31:CA:1305:G:H5''	51:CX:4:GLY:HA3	1.90	0.53
34:CG:29:PRO:HD2	34:CG:30:LYS:HE2	1.91	0.53
39:CL:18:PHE:CD1	39:CL:62:TYR:HD2	2.25	0.53
39:CL:47:LEU:O	39:CL:50:LEU:HB2	2.09	0.53
53:CC:1:C:H3'	53:CC:1:C:C6	2.44	0.53
53:CD:49:C:OP2	53:CD:49:C:H6	1.92	0.53
31:DA:8:A:N6	34:DG:209:ARG:HB2	2.23	0.53
31:DA:269:C:H2'	31:DA:270:A:O4'	2.09	0.53
31:DA:1124:G:O2'	31:DA:1125:U:OP2	2.27	0.53
31:DA:1262:C:H2'	31:DA:1263:C:C6	2.44	0.53
31:DA:1327:C:H2'	31:DA:1328:C:C6	2.43	0.53
32:DE:16:HIS:HE1	32:DE:213:LEU:HD13	1.69	0.53
32:DE:178:ARG:HH21	38:DK:74:PRO:HG3	1.72	0.53
41:DN:57:THR:HG22	41:DN:58:PRO:CD	2.38	0.53
49:DV:31:ILE:HG22	49:DV:50:ALA:H	1.74	0.53
50:DW:49:ALA:HA	50:DW:52:ALA:CB	2.38	0.53
53:DD:6:G:N2	53:DD:69:C:N3	2.56	0.53
1:AA:67:U:H2'	1:AA:68:G:H8	1.73	0.52
1:AA:531:C:H4'	1:AA:532:A:H5''	1.90	0.52
1:AA:607:U:OP1	5:AF:102:PRO:HA	2.09	0.52
1:AA:660:G:H21	11:AO:12:ALA:HA	1.73	0.52
1:AA:686:G:O6	29:A7:12:ARG:HG3	2.08	0.52
1:AA:899:A:O2'	1:AA:900:A:H8	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1299:G:H5''	1:AA:1300:U:OP1	2.09	0.52
1:AA:1382:G:C2'	1:AA:1383:C:H5'	2.39	0.52
1:AA:1759:A:H4'	1:AA:2715:C:O4'	2.09	0.52
1:AA:1833:U:C4	1:AA:1834:U:C5	2.97	0.52
1:AA:2125:G:C2	1:AA:2172:U:OP1	2.61	0.52
1:AA:2533:A:C2'	1:AA:2534:A:H5'	2.39	0.52
1:AA:2702:U:H4'	1:AA:2703:C:OP1	2.08	0.52
3:AD:27:THR:HG21	3:AD:83:GLU:HB3	1.91	0.52
3:AD:79:VAL:HG21	3:AD:111:LEU:HD21	1.91	0.52
3:AD:101:GLU:HG3	3:AD:102:LYS:N	2.23	0.52
6:AG:17:PRO:HA	6:AG:20:ILE:HG13	1.91	0.52
7:AH:129:THR:O	7:AH:129:THR:OG1	2.22	0.52
11:AO:38:GLN:HG2	11:AO:45:LEU:HD13	1.91	0.52
17:A2:47:VAL:O	17:A2:48:GLY:O	2.27	0.52
18:AS:4:LYS:HB2	18:AS:106:ILE:HG22	1.89	0.52
21:AV:76:LEU:HD23	21:AV:76:LEU:N	2.22	0.52
26:A4:63:TYR:CZ	49:CV:41:VAL:O	2.61	0.52
1:BA:282:A:C4	1:BA:359:A:C2	2.98	0.52
1:BA:445:C:OP1	16:B1:2:PRO:HA	2.09	0.52
1:BA:1142(A):A:C8	1:BA:1144:G:C5	2.97	0.52
1:BA:1856:G:C2'	1:BA:1857:G:H5'	2.39	0.52
1:BA:2406:U:O4	11:BO:70:GLN:CB	2.54	0.52
1:BA:2553:G:H5''	1:BA:2554:U:OP2	2.09	0.52
1:BA:2694:G:C4	1:BA:2695:C:C5	2.97	0.52
1:BA:2726:U:O2'	1:BA:2727:G:H8	1.92	0.52
2:BB:93:C:C2'	2:BB:94:C:H5'	2.39	0.52
3:BD:32:SER:HA	3:BD:36:PRO:HD2	1.90	0.52
4:BE:169:ASN:OD1	4:BE:201:THR:HG21	2.08	0.52
11:BO:46:LYS:O	11:BO:51:PHE:HB2	2.09	0.52
12:BP:62:GLY:O	12:BP:63:LYS:CB	2.52	0.52
14:BQ:28:VAL:H	14:BQ:88:ASP:HB3	1.74	0.52
14:BQ:38:GLN:HG3	14:BQ:47:THR:CG2	2.39	0.52
16:B1:81:HIS:CE1	16:B1:85:LYS:HD2	2.45	0.52
31:CA:254:G:O2'	47:CT:16:GLN:O	2.23	0.52
31:CA:439:A:C4	31:CA:496:A:C2	2.97	0.52
31:CA:580:U:H2'	31:CA:581:G:O4'	2.09	0.52
31:CA:766:A:C8	31:CA:814:A:C6	2.97	0.52
31:CA:1317:C:H5''	31:CA:1318:A:OP2	2.09	0.52
32:CE:224:GLN:HB2	32:CE:229:VAL:CG2	2.40	0.52
35:CH:148:VAL:O	35:CH:151:LEU:HB2	2.10	0.52
31:DA:9:G:OP2	35:DH:121:LYS:HD2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:166:G:O2'	31:DA:167:G:H5'	2.09	0.52
31:DA:1009:G:H1	31:DA:1020:U:H3	1.57	0.52
31:DA:1200:C:H1'	31:DA:1204:A:N6	2.24	0.52
31:DA:1305:G:N2	31:DA:1331:G:C2'	2.71	0.52
32:DE:12:GLU:HB2	32:DE:16:HIS:ND1	2.23	0.52
32:DE:83:MET:HE2	32:DE:234:PRO:CG	2.39	0.52
32:DE:228:GLY:O	32:DE:230:VAL:HG22	2.09	0.52
35:DH:126:ARG:HA	35:DH:131:ILE:HD11	1.91	0.52
44:DQ:37:PHE:HE1	44:DQ:53:LEU:HD22	1.72	0.52
1:AA:518:G:H2'	1:AA:519:U:C6	2.44	0.52
1:AA:1083:U:C3'	1:AA:1084:A:H5''	2.39	0.52
1:AA:1192:G:O2'	1:AA:1193:G:H5'	2.09	0.52
1:AA:1784:A:H4'	1:AA:1785:A:C5'	2.38	0.52
1:AA:1860:G:H1	1:AA:1882:C:H42	1.57	0.52
1:AA:1983:C:H4'	1:AA:2606:C:H4'	1.90	0.52
1:AA:2309:A:H8	1:AA:2309:A:O5'	1.92	0.52
4:AE:14:ILE:HG22	4:AE:21:VAL:HG13	1.88	0.52
4:AE:23:VAL:HG11	4:AE:173:VAL:HG21	1.91	0.52
9:AM:133:GLN:O	9:AM:134:ARG:HG2	2.09	0.52
11:AO:75:ILE:HD13	11:AO:75:ILE:N	2.21	0.52
14:AQ:89:ARG:O	14:AQ:90:GLY:C	2.51	0.52
28:A6:39:TYR:HB3	28:A6:49:HIS:CD2	2.44	0.52
1:BA:1283:G:N2	1:BA:1285:G:H3'	2.23	0.52
1:BA:2494:G:C5	1:BA:2495:G:N7	2.77	0.52
1:BA:2807:G:C6	1:BA:2893:G:O6	2.61	0.52
2:BB:7:G:H3'	2:BB:8:U:H5''	1.90	0.52
4:BE:102:VAL:HB	4:BE:199:ARG:O	2.09	0.52
5:BF:164:ARG:NH1	5:BF:177:ALA:HB2	2.25	0.52
11:BO:79:ARG:O	11:BO:111:ARG:HB2	2.10	0.52
17:B2:84:LYS:O	17:B2:85:LYS:C	2.52	0.52
31:CA:186(C):G:C5	31:CA:191(E):G:C2	2.97	0.52
31:CA:197:A:N6	31:CA:221:C:H5'	2.24	0.52
31:CA:437:U:O2'	34:CG:123:HIS:HD2	1.92	0.52
31:CA:793:U:C5	31:CA:1516:G:O2'	2.62	0.52
31:CA:960:U:N3	31:CA:1225:A:C4	2.77	0.52
31:CA:1255:G:C2	31:CA:1283:G:C2	2.98	0.52
31:CA:1352:C:H2'	31:CA:1353:G:C8	2.45	0.52
34:CG:63:LYS:O	34:CG:67:ILE:HG13	2.09	0.52
44:CQ:25:VAL:HG22	44:CQ:38:GLY:O	2.10	0.52
46:CS:74:LEU:HA	46:CS:77:ALA:HB3	1.92	0.52
50:CW:73:HIS:O	50:CW:76:ALA:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:15:A:C2	52:CB:70:G:C5	2.97	0.52
31:DA:923:A:OP1	35:DH:21:ALA:HB2	2.09	0.52
31:DA:1025:U:HO2'	31:DA:1026:G:H8	1.57	0.52
31:DA:1254:C:OP1	40:DM:45:ARG:HA	2.09	0.52
32:DE:8:LYS:HD2	32:DE:11:LEU:HB2	1.91	0.52
35:DH:88:LYS:HE2	35:DH:123:LEU:HD12	1.91	0.52
37:DJ:150:ALA:O	41:DN:57:THR:HG21	2.09	0.52
43:DP:34:LEU:HA	43:DP:37:THR:OG1	2.10	0.52
46:DS:74:LEU:O	46:DS:79:VAL:HG23	2.09	0.52
1:AA:36:G:C5	1:AA:37:C:C5	2.97	0.52
1:AA:259:G:H21	1:AA:621:A:H8	1.56	0.52
1:AA:696:G:O2'	1:AA:697:C:H5'	2.09	0.52
1:AA:900:A:H3'	1:AA:901:A:C8	2.44	0.52
1:AA:1388:G:H2'	1:AA:1389:G:H8	1.74	0.52
1:AA:1392:A:C6	1:AA:1393:A:N1	2.78	0.52
1:AA:1449:A:H5'	1:AA:1449(A):G:OP2	2.08	0.52
1:AA:1858:G:O2'	1:AA:1859:A:C8	2.62	0.52
1:AA:1912:A:N1	31:CA:1407:C:O2'	2.39	0.52
1:AA:2285:C:C5	28:A6:27:LYS:HD2	2.44	0.52
3:AD:76:PRO:HG2	3:AD:98:VAL:HG21	1.91	0.52
7:AH:152:ARG:C	7:AH:153:LYS:HD2	2.35	0.52
11:AO:101:VAL:HG22	11:AO:106:LEU:HB3	1.90	0.52
12:AP:59:ARG:CD	12:AP:59:ARG:H	2.22	0.52
12:AP:66:ILE:HD12	12:AP:66:ILE:C	2.35	0.52
16:A1:66:ASN:ND2	16:A1:70:ARG:HE	2.06	0.52
21:AV:142:SER:H	21:AV:143:GLY:HA2	1.75	0.52
29:A7:8:ASN:HD22	29:A7:8:ASN:C	2.17	0.52
1:BA:17:G:H4'	16:B1:25:TRP:CH2	2.45	0.52
1:BA:123:G:H2'	1:BA:124:G:O4'	2.08	0.52
1:BA:1543:A:H1'	1:BA:1545:A:H1'	1.91	0.52
1:BA:1791:A:O2'	3:BD:207:GLY:CA	2.58	0.52
1:BA:2099:U:H2'	1:BA:2099:U:O2	2.09	0.52
1:BA:2277:G:OP2	22:B3:12:ASN:ND2	2.42	0.52
1:BA:2335:A:O2'	1:BA:2336:A:O5'	2.28	0.52
1:BA:2439:A:O2'	1:BA:2440:C:OP2	2.23	0.52
1:BA:2689:U:H4'	1:BA:2690:C:H5'	1.90	0.52
3:BD:35:LYS:CE	3:BD:104:TYR:CD1	2.92	0.52
3:BD:267:SER:C	3:BD:269:PHE:N	2.68	0.52
11:BO:62:LEU:CD1	30:B8:30:ARG:CZ	2.79	0.52
11:BO:85:LEU:HB3	11:BO:114:ILE:HD13	1.91	0.52
13:B0:29:LEU:HB3	13:B0:75:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:B1:76:TYR:OH	16:B1:93:LYS:HE2	2.10	0.52
17:B2:60:GLU:OE2	17:B2:97:LYS:HE3	2.09	0.52
24:BW:10:LEU:O	24:BW:14:ARG:N	2.38	0.52
31:CA:74:C:H2'	31:CA:75:C:O4'	2.08	0.52
31:CA:167:G:O2'	31:CA:168:G:H5'	2.10	0.52
31:CA:563:A:N7	31:CA:567:G:H1'	2.25	0.52
31:CA:1176:A:N6	31:CA:1177:G:N1	2.53	0.52
31:CA:1221:G:O3'	49:CV:77:THR:HG21	2.09	0.52
32:CE:77:ALA:HB1	32:CE:165:VAL:HG11	1.90	0.52
32:CE:178:ARG:CG	32:CE:178:ARG:NH1	2.70	0.52
34:CG:65:ARG:NH1	34:CG:65:ARG:CG	2.72	0.52
38:CK:63:LEU:HB3	38:CK:65:TYR:CE1	2.44	0.52
42:CO:21:VAL:HG13	42:CO:95:TYR:CE2	2.44	0.52
49:CV:40:ILE:C	49:CV:41:VAL:HG22	2.34	0.52
51:CX:15:ARG:NH1	51:CX:15:ARG:HG2	2.23	0.52
53:CD:41:C:H2'	53:CD:42:C:C6	2.44	0.52
31:DA:51:A:C6	31:DA:353:A:C2	2.97	0.52
31:DA:1032:A:H3'	31:DA:1032(A):G:H5''	1.92	0.52
31:DA:1200:C:H5'	31:DA:1201:A:H5''	1.90	0.52
31:DA:1226:C:H4'	31:DA:1227:A:OP1	2.09	0.52
35:DH:33:VAL:HG12	35:DH:34:VAL:H	1.73	0.52
47:DT:59:ILE:HG22	47:DT:71:PHE:CD1	2.43	0.52
49:DV:39:THR:HG22	49:DV:40:ILE:H	1.73	0.52
52:DB:85:C:H2'	52:DB:86:C:H5'	1.92	0.52
1:AA:55:G:C2	1:AA:116:C:C2	2.98	0.52
1:AA:271(C):U:H2'	1:AA:271:G:OP1	2.10	0.52
1:AA:648:G:C2'	1:AA:649:G:H5'	2.40	0.52
1:AA:1070:A:H3'	1:AA:1071:G:H5''	1.91	0.52
1:AA:1668:A:OP1	10:AN:5:GLN:HG3	2.09	0.52
1:AA:1869:G:H5'	1:AA:1869:G:C8	2.33	0.52
10:AN:104:ARG:HH22	15:AR:43:GLN:HE22	1.57	0.52
11:AO:15:ARG:O	11:AO:16:ARG:C	2.53	0.52
12:AP:29:PHE:HB3	12:AP:65:PHE:CZ	2.44	0.52
20:AU:49:VAL:O	20:AU:51:VAL:N	2.42	0.52
20:AU:68:HIS:O	20:AU:71:LYS:HB2	2.09	0.52
20:AU:97:ARG:HH21	20:AU:98:VAL:CG2	2.22	0.52
21:AV:8:TYR:HB2	21:AV:38:TYR:CE2	2.45	0.52
21:AV:130:PRO:CA	21:AV:133:ILE:HD11	2.36	0.52
1:BA:581:C:C2	1:BA:582:G:C8	2.98	0.52
1:BA:637:A:O5'	11:BO:116:GLY:HA2	2.09	0.52
1:BA:1085:A:H1'	1:BA:1086:A:O5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1342:A:N6	1:BA:1397:U:C5	2.77	0.52
1:BA:2819:G:H2'	1:BA:2821:A:N7	2.24	0.52
6:BG:150:ASP:CG	6:BG:151:ALA:H	2.17	0.52
11:BO:47:ASP:CG	11:BO:49:ARG:HG2	2.31	0.52
15:BR:106:SER:HA	15:BR:110:ILE:HG13	1.90	0.52
18:BS:36:LEU:HD13	18:BS:48:ALA:HA	1.90	0.52
18:BS:50:VAL:HG21	18:BS:105:VAL:HG23	1.90	0.52
18:BS:78:GLU:OE1	18:BS:99:ARG:HD2	2.10	0.52
19:BT:23:GLU:HG2	19:BT:25:LYS:HE2	1.91	0.52
19:BT:43:VAL:HG22	19:BT:51:VAL:HG21	1.92	0.52
20:BU:81:LYS:HD3	20:BU:97:ARG:NH1	2.23	0.52
29:B7:5:TRP:NE1	29:B7:7:PRO:HG3	2.24	0.52
29:B7:11:LYS:HD3	29:B7:11:LYS:C	2.34	0.52
29:B7:24:THR:O	29:B7:28:ARG:HG3	2.09	0.52
31:CA:209:U:P	31:CA:209:U:O4'	2.68	0.52
31:CA:344:A:H5''	31:CA:345:C:P	2.49	0.52
31:CA:793:U:C3'	31:CA:794:A:H5''	2.35	0.52
31:CA:1234:C:O2'	31:CA:1235:U:H5'	2.10	0.52
31:CA:1238:A:N3	31:CA:1241:G:O2'	2.40	0.52
34:CG:25:ARG:C	34:CG:27:TYR:N	2.65	0.52
34:CG:147:ALA:CB	34:CG:182:LYS:HB3	2.39	0.52
50:CW:26:ASN:O	50:CW:30:LYS:HB2	2.09	0.52
53:CC:20:G:C4	53:CC:58:A:C2	2.97	0.52
31:DA:273:A:N6	31:DA:274:A:C6	2.77	0.52
31:DA:439:A:C2'	31:DA:440:A:O5'	2.57	0.52
31:DA:921:U:O2'	35:DH:19:MET:O	2.18	0.52
31:DA:1134:G:H2'	31:DA:1135:U:H5'	1.90	0.52
39:DL:65:VAL:HG21	39:DL:73:GLN:HB3	1.89	0.52
40:DM:7:LYS:HG3	40:DM:71:LEU:HD13	1.92	0.52
43:DP:10:PRO:O	43:DP:11:ARG:HG3	2.09	0.52
44:DQ:29:ARG:O	44:DQ:30:ALA:CB	2.57	0.52
53:DC:19:G:C4'	53:DC:20:G:OP1	2.57	0.52
1:AA:129:C:H2'	1:AA:130:C:C6	2.44	0.52
1:AA:280:C:C2	1:AA:361:G:C2	2.97	0.52
1:AA:438:G:H2'	1:AA:439:G:H8	1.73	0.52
1:AA:1045:A:OP1	1:AA:1046:A:H3'	2.09	0.52
1:AA:1317:A:H2'	1:AA:1318:C:C6	2.45	0.52
1:AA:1830:C:O2'	1:AA:1831:G:H5'	2.09	0.52
1:AA:1899:G:N2	1:AA:1902:C:C4	2.68	0.52
1:AA:2011:U:C2'	1:AA:2012:G:H5'	2.39	0.52
1:AA:2116:G:C6	1:AA:2117:A:N1	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:35:LYS:CD	3:AD:64:ILE:N	2.73	0.52
4:AE:23:VAL:HG11	4:AE:173:VAL:CG2	2.39	0.52
6:AG:64:THR:HG23	6:AG:66:GLN:N	2.18	0.52
8:AK:12:LEU:HD13	8:AK:12:LEU:N	2.25	0.52
11:AO:90:ARG:O	11:AO:90:ARG:HG2	2.09	0.52
12:AP:43:THR:O	12:AP:46:GLN:N	2.43	0.52
21:AV:7:ALA:O	21:AV:8:TYR:CG	2.63	0.52
22:A3:66:VAL:HG23	22:A3:67:VAL:N	2.24	0.52
1:BA:1022:G:C6	1:BA:1141:U:C5	2.97	0.52
1:BA:1198:U:H2'	1:BA:1199:U:H6	1.75	0.52
1:BA:1385:G:C6	1:BA:1403:C:N3	2.77	0.52
1:BA:1416:G:C2'	1:BA:1417:C:C6	2.92	0.52
1:BA:1889:A:N1	1:BA:2234:G:H1'	2.25	0.52
1:BA:2016:U:O4'	27:B5:6:VAL:CG1	2.57	0.52
1:BA:2275:C:O2'	12:BP:85:LYS:N	2.43	0.52
1:BA:2527:C:C4	1:BA:2528:U:C5	2.97	0.52
1:BA:2550:G:C2'	1:BA:2551:C:H5'	2.39	0.52
2:BB:44:G:H1'	2:BB:47:C:H42	1.75	0.52
7:BH:86:GLU:HA	7:BH:132:ARG:CB	2.38	0.52
9:BM:28:THR:HA	9:BM:106:MET:HE1	1.91	0.52
12:BP:32:TYR:CD1	12:BP:114:ALA:CB	2.93	0.52
13:B0:10:LEU:O	13:B0:12:ARG:HG3	2.09	0.52
15:BR:55:ASN:HB3	15:BR:58:ASN:HB2	1.92	0.52
19:BT:23:GLU:HG3	19:BT:24:GLY:H	1.74	0.52
31:CA:39:G:N7	31:CA:547:A:H8	2.07	0.52
31:CA:403:C:OP2	34:CG:74:GLN:NE2	2.42	0.52
31:CA:707:C:O2'	31:CA:708:C:H5'	2.09	0.52
31:CA:812:C:H4'	31:CA:813:U:O5'	2.09	0.52
31:CA:920:U:H2'	31:CA:921:U:C6	2.45	0.52
31:CA:1053:G:O3'	31:CA:1054:C:H4'	2.09	0.52
39:CL:11:LYS:O	39:CL:12:GLU:HB2	2.10	0.52
42:CO:39:THR:HA	42:CO:50:ARG:O	2.10	0.52
45:CR:21:ASP:OD2	45:CR:21:ASP:C	2.52	0.52
45:CR:24:SER:OG	45:CR:27:VAL:HG23	2.10	0.52
46:CS:73:LEU:O	46:CS:77:ALA:HB2	2.09	0.52
31:DA:680:C:N4	31:DA:710:G:H1	2.08	0.52
31:DA:736:C:H2'	31:DA:737:A:H8	1.75	0.52
31:DA:1190:G:OP1	33:DF:4:LYS:HA	2.09	0.52
31:DA:1226:C:H2'	43:DP:103:THR:HB	1.92	0.52
33:DF:164:ARG:HG2	33:DF:165:THR:N	2.25	0.52
34:DG:117:ALA:O	34:DG:121:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DG:146:ILE:HD12	34:DG:146:ILE:N	2.24	0.52
37:DJ:73:MET:HA	37:DJ:91:VAL:HG23	1.92	0.52
37:DJ:143:ARG:NH1	53:DD:43:G:H5'	2.25	0.52
52:DB:31:C:H2'	52:DB:32:C:C6	2.43	0.52
1:AA:363(A):A:N6	1:AA:363(B):G:O6	2.42	0.52
1:AA:945:A:C2	1:AA:2448:A:N3	2.78	0.52
1:AA:978:G:C2	1:AA:986:C:C2	2.97	0.52
1:AA:1062:G:H1'	1:AA:1088:A:C5	2.45	0.52
1:AA:1162:G:O2'	17:A2:90:PRO:HG2	2.09	0.52
1:AA:1313:U:H4'	1:AA:1332:G:H4'	1.90	0.52
1:AA:1403:C:H5''	1:AA:1471:A:H1'	1.92	0.52
1:AA:1710:C:H2'	1:AA:1711:C:C6	2.43	0.52
1:AA:2136:C:H2'	1:AA:2137:C:O4'	2.10	0.52
1:AA:2443:C:O2'	1:AA:2444:G:H5'	2.09	0.52
1:AA:2594:C:H2'	1:AA:2595:G:C8	2.45	0.52
1:AA:2680:C:O2'	1:AA:2681:C:H5'	2.10	0.52
4:AE:13:ARG:HH11	4:AE:13:ARG:CG	2.23	0.52
7:AH:4:ILE:HD13	7:AH:4:ILE:N	2.21	0.52
8:AK:104:GLN:O	8:AK:105:HIS:CB	2.57	0.52
16:A1:17:ILE:HG23	16:A1:39:LEU:CD1	2.40	0.52
17:A2:43:GLU:OE2	17:A2:43:GLU:HA	2.10	0.52
18:AS:79:GLY:CA	18:AS:100:THR:HG22	2.39	0.52
22:A3:38:VAL:HG13	22:A3:40:GLN:HG2	1.91	0.52
1:BA:464:U:H4'	29:B7:5:TRP:CZ3	2.45	0.52
1:BA:492:A:H2'	1:BA:493:G:O4'	2.09	0.52
1:BA:1421:G:C2	1:BA:1422:G:C8	2.97	0.52
1:BA:2415:G:C3'	11:BO:66:GLY:HA3	2.40	0.52
4:BE:33:VAL:HG11	4:BE:88:GLY:CA	2.40	0.52
5:BF:89:VAL:HG12	5:BF:90:PHE:CD2	2.44	0.52
5:BF:131:GLY:C	5:BF:132:VAL:O	2.50	0.52
6:BG:48:GLU:HA	6:BG:48:GLU:OE2	2.09	0.52
6:BG:53:LEU:HD21	6:BG:90:LEU:HD11	1.92	0.52
9:BM:23:LEU:CD1	9:BM:99:LEU:HD23	2.39	0.52
11:BO:96:THR:CB	11:BO:97:PRO:HD2	2.38	0.52
11:BO:122:PRO:HA	11:BO:141:ALA:HB1	1.92	0.52
12:BP:12:GLN:HE21	12:BP:73:PRO:HD3	1.74	0.52
15:BR:132:LYS:HB2	15:BR:132:LYS:NZ	2.25	0.52
21:BV:10:ARG:NH2	21:BV:25:PRO:HB3	2.24	0.52
28:B6:38:LYS:HZ1	28:B6:46:HIS:CD2	2.27	0.52
28:B6:41:PRO:HG2	28:B6:45:LYS:H	1.74	0.52
31:CA:184:G:H2'	31:CA:185:A:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:200:G:N2	31:CA:218:C:O2	2.43	0.52
31:CA:272:C:H2'	31:CA:273:A:H8	1.75	0.52
31:CA:1065:U:H1'	31:CA:1066:C:OP2	2.10	0.52
31:CA:1117:G:O3'	39:CL:104:ARG:NH1	2.43	0.52
40:CM:80:LYS:O	40:CM:80:LYS:HD3	2.10	0.52
48:CU:88:LYS:NZ	48:CU:88:LYS:HB3	2.24	0.52
49:CV:41:VAL:HG13	49:CV:44:MET:HB2	1.92	0.52
51:CX:15:ARG:CG	51:CX:15:ARG:NH1	2.62	0.52
52:CB:18:G:C1'	52:CB:19:G:P	2.98	0.52
53:CD:68:C:H2'	53:CD:69:C:C6	2.44	0.52
31:DA:485:G:H1'	31:DA:486:U:H5	1.74	0.52
31:DA:501:C:OP1	42:DO:117:ARG:NH2	2.37	0.52
31:DA:723:U:C2'	31:DA:724:G:OP1	2.58	0.52
31:DA:1158:C:C2	31:DA:1160:G:N7	2.77	0.52
31:DA:1394:A:H4'	31:DA:1395:C:OP2	2.09	0.52
33:DF:78:GLY:HA2	33:DF:79:ARG:HH21	1.74	0.52
33:DF:154:SER:O	33:DF:196:LEU:HB3	2.09	0.52
33:DF:196:LEU:HD23	33:DF:196:LEU:N	2.25	0.52
34:DG:42:GLN:HG3	34:DG:43:HIS:CD2	2.45	0.52
39:DL:18:PHE:HB2	39:DL:62:TYR:O	2.08	0.52
40:DM:3:LYS:HE2	40:DM:77:PRO:HG3	1.92	0.52
42:DO:62:SER:HB2	42:DO:64:TYR:CD1	2.36	0.52
1:AA:1060:U:C5	1:AA:1062:G:H4'	2.45	0.52
1:AA:1751:C:H2'	1:AA:1752:C:H6	1.75	0.52
1:AA:1952:A:C5	10:AN:22:ILE:HD11	2.45	0.52
1:AA:1988:C:H2'	1:AA:1989:G:O4'	2.10	0.52
1:AA:2401:U:H2'	1:AA:2402:C:C6	2.45	0.52
1:AA:2684:U:C4	1:AA:2685:G:N7	2.77	0.52
11:AO:149:GLU:HG2	11:AO:150:ALA:N	2.25	0.52
15:AR:111:ARG:O	15:AR:112:ARG:HG3	2.10	0.52
15:AR:129:ARG:O	15:AR:133:GLU:HG3	2.10	0.52
26:A4:59:PHE:HA	26:A4:62:ARG:HG2	1.90	0.52
1:BA:19:C:H2'	1:BA:20:C:H6	1.74	0.52
1:BA:270(N):G:H1'	1:BA:270(P):C:O4'	2.10	0.52
1:BA:340:A:H2'	1:BA:341:G:O4'	2.10	0.52
1:BA:883:G:H2'	1:BA:884:C:C5	2.44	0.52
1:BA:896:A:C2	21:BV:176:PRO:HB2	2.45	0.52
1:BA:945:A:C6	1:BA:2448:A:C5	2.97	0.52
1:BA:1384:A:N3	1:BA:1405:U:H1'	2.25	0.52
1:BA:1407:C:O2	1:BA:1407:C:H2'	2.09	0.52
2:BB:42:C:O2	6:BG:92:VAL:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:25:PRO:HG2	5:BF:26:ALA:N	2.25	0.52
5:BF:162:LEU:HD12	5:BF:162:LEU:H	1.74	0.52
6:BG:43:LEU:HD12	6:BG:45:GLU:CG	2.40	0.52
8:BK:7:GLU:O	8:BK:9:LEU:HD23	2.10	0.52
11:BO:15:ARG:O	11:BO:16:ARG:C	2.53	0.52
11:BO:114:ILE:HD12	11:BO:115:LEU:N	2.25	0.52
27:B5:48:GLU:N	27:B5:48:GLU:OE1	2.42	0.52
31:CA:431:A:H2'	31:CA:432:A:O4'	2.10	0.52
31:CA:1133:G:H2'	31:CA:1134:G:C8	2.44	0.52
31:CA:1331:G:OP2	43:CP:23:TYR:CD2	2.62	0.52
31:CA:1406:U:H2'	31:CA:1407:C:H5'	1.92	0.52
32:CE:21:ARG:H	32:CE:21:ARG:HE	1.58	0.52
32:CE:160:ASP:O	32:CE:183:PRO:HD2	2.10	0.52
34:CG:108:LEU:HB3	34:CG:110:PHE:CE1	2.44	0.52
36:CI:50:TYR:OH	48:CU:74:ARG:O	2.13	0.52
37:CJ:113:GLU:CG	37:CJ:119:ARG:HG2	2.40	0.52
38:CK:11:THR:HG22	38:CK:15:ASN:ND2	2.25	0.52
39:CL:24:GLY:N	39:CL:60:ASP:OD1	2.42	0.52
31:DA:604:G:C5	31:DA:605:U:C5	2.98	0.52
31:DA:660:G:H2'	31:DA:661:G:O4'	2.09	0.52
31:DA:1105:A:C2	31:DA:1106:G:N7	2.77	0.52
31:DA:1207:G:C6	31:DA:1208:C:C4	2.97	0.52
31:DA:1255:G:HO2'	31:DA:1258:G:HO2'	1.49	0.52
32:DE:83:MET:HE2	32:DE:234:PRO:CD	2.39	0.52
33:DF:72:LYS:NZ	33:DF:74:GLY:HA3	2.25	0.52
39:DL:79:LEU:CD1	39:DL:83:ARG:HD2	2.39	0.52
46:DS:14:ASN:OD1	46:DS:42:ARG:NH2	2.43	0.52
51:DX:9:ARG:HG3	51:DX:10:ARG:N	2.24	0.52
53:DC:1:C:H6	53:DC:1:C:H3'	1.74	0.52
53:DC:20:G:C2	53:DC:58:A:N3	2.78	0.52
53:DC:20:G:HO2'	53:DC:21:U:H5	1.57	0.52
53:DC:53:G:O2'	53:DC:54:G:H5'	2.10	0.52
53:DD:44:A:H2'	53:DD:45:A:C8	2.44	0.52
1:AA:1313:U:H2'	1:AA:1610:A:N1	2.24	0.52
1:AA:1639:U:H4'	1:AA:2699:C:H4'	1.91	0.52
1:AA:1794:U:H2'	1:AA:1795:C:C6	2.44	0.52
2:AB:61:G:C6	2:AB:62:C:C4	2.98	0.52
3:AD:145:VAL:HG12	3:AD:146:GLU:O	2.10	0.52
8:AK:120:ILE:HD11	8:AK:126:TYR:OH	2.10	0.52
14:AQ:15:ARG:HD3	14:AQ:88:ASP:OD2	2.09	0.52
27:A5:40:LYS:NZ	27:A5:46:CYS:CB	2.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A6:12:GLU:HA	28:A6:23:THR:HG22	1.92	0.52
1:BA:196:A:N3	1:BA:196:A:H2'	2.25	0.52
1:BA:586:A:H5''	5:BF:89:VAL:HG21	1.84	0.52
1:BA:688:U:H5'	1:BA:1780:A:C2	2.45	0.52
1:BA:893:C:H4'	1:BA:894:C:OP2	2.09	0.52
1:BA:1515:C:H2'	1:BA:1516:U:H6	1.75	0.52
1:BA:2627:G:O2'	1:BA:2781:A:N1	2.41	0.52
1:BA:2688:U:C5	1:BA:2720:U:OP2	2.60	0.52
6:BG:40:ASN:HB2	6:BG:91:ARG:HG2	1.92	0.52
7:BH:153:LYS:HB3	7:BH:160:LYS:O	2.10	0.52
9:BM:35:ARG:HB3	9:BM:42:TRP:CH2	2.45	0.52
21:BV:103:ARG:HB2	21:BV:137:ILE:O	2.09	0.52
21:BV:121:HIS:HB3	21:BV:123:ASP:O	2.10	0.52
23:BZ:92:LYS:O	23:BZ:94:LEU:N	2.43	0.52
24:BW:17:SER:CB	24:BW:18:PRO:HA	2.40	0.52
31:CA:56:U:H2'	31:CA:57:G:C8	2.45	0.52
31:CA:540:G:H2'	31:CA:541:G:O4'	2.10	0.52
31:CA:562:C:N4	31:CA:884:U:C6	2.78	0.52
31:CA:1034:G:C2	31:CA:1035:A:C6	2.98	0.52
31:CA:1054:C:H2'	31:CA:1054:C:O2	2.10	0.52
31:CA:1412:C:H2'	31:CA:1413:A:H8	1.74	0.52
31:CA:1491:G:C6	56:CA:1841:PAR:H21	2.44	0.52
40:CM:22:LYS:NZ	40:CM:88:LEU:HG	2.25	0.52
44:CQ:7:ILE:HG13	44:CQ:8:GLU:N	2.23	0.52
31:DA:45:U:H2'	31:DA:46:G:C8	2.45	0.52
31:DA:187:C:O2	31:DA:191(A):G:N1	2.43	0.52
31:DA:464:G:C5	31:DA:466:C:OP2	2.63	0.52
31:DA:559:A:OP1	35:DH:126:ARG:NH1	2.42	0.52
31:DA:606:G:N2	31:DA:631:G:O2'	2.38	0.52
31:DA:666:G:H5'	31:DA:726:C:H1'	1.91	0.52
31:DA:728:A:C5	45:DR:54:ARG:HD2	2.45	0.52
31:DA:1087:G:H22	31:DA:1099:G:H1'	1.75	0.52
31:DA:1127:G:H22	31:DA:1144:G:N2	2.07	0.52
31:DA:1127:G:O2'	31:DA:1128:C:H5'	2.08	0.52
31:DA:1129:C:N4	31:DA:1139:G:N2	2.58	0.52
31:DA:1217:C:H2'	31:DA:1218:C:O4'	2.09	0.52
31:DA:1417:G:C6	31:DA:1482:G:C6	2.98	0.52
33:DF:70:VAL:O	33:DF:106:VAL:HG23	2.10	0.52
37:DJ:23:VAL:HG13	37:DJ:43:PHE:CE2	2.44	0.52
1:AA:245:G:H4'	11:AO:70:GLN:O	2.10	0.52
1:AA:271(B):G:C4'	1:AA:271(C):U:O5'	2.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:500:G:N2	1:AA:502:A:H3'	2.25	0.52
1:AA:656:G:H2'	1:AA:657:U:O4'	2.10	0.52
1:AA:815:C:H2'	1:AA:816:C:C6	2.45	0.52
1:AA:2015:A:H1'	27:A5:2:ALA:HA	0.63	0.52
1:AA:2173:A:OP1	1:AA:2173:A:H8	1.93	0.52
1:AA:2712:U:O2'	1:AA:2712(A):A:P	2.68	0.52
1:AA:2733:A:C3'	1:AA:2734:A:C5'	2.88	0.52
1:AA:2756:U:C4'	1:AA:2757:A:OP1	2.55	0.52
3:AD:65:ILE:HD11	3:AD:67:PHE:CZ	2.43	0.52
5:AF:64:ILE:HG23	5:AF:65:TRP:NE1	2.25	0.52
12:AP:104:PHE:O	12:AP:105:GLU:HB3	2.10	0.52
25:AX:29:ARG:C	25:AX:30:ARG:HG3	2.34	0.52
1:BA:903:C:O2'	21:BV:168:GLU:HG2	2.10	0.52
1:BA:1448:G:H2'	1:BA:1449:A:C8	2.45	0.52
1:BA:1581:G:H5'	1:BA:1582:C:OP2	2.10	0.52
1:BA:1827:C:C2'	1:BA:1828:G:H5'	2.40	0.52
1:BA:2103:C:O2	1:BA:2187:G:C2	2.62	0.52
1:BA:2312:U:OP1	6:BG:74:LYS:HB2	2.09	0.52
1:BA:2371:G:O2'	28:B6:46:HIS:CE1	2.63	0.52
2:BB:13:A:O2'	2:BB:14:U:H3'	2.10	0.52
2:BB:80:U:O2'	2:BB:81:G:H5''	2.09	0.52
4:BE:120:TRP:CD1	4:BE:155:LYS:HB3	2.45	0.52
6:BG:120:LEU:N	6:BG:179:PRO:O	2.32	0.52
10:BN:10:VAL:HG13	10:BN:17:ARG:C	2.35	0.52
14:BQ:18:ILE:O	14:BQ:21:THR:CG2	2.58	0.52
15:BR:45:PHE:C	15:BR:45:PHE:HD2	2.18	0.52
18:BS:50:VAL:HG22	18:BS:105:VAL:CG2	2.39	0.52
19:BT:57:LEU:HD23	19:BT:78:LYS:HB2	1.91	0.52
21:BV:26:GLY:C	21:BV:37:VAL:HG22	2.34	0.52
26:B4:43:TYR:O	26:B4:43:TYR:CG	2.63	0.52
31:CA:33:A:C6	31:CA:34:C:N4	2.78	0.52
31:CA:146:G:C2	31:CA:177:C:N3	2.78	0.52
31:CA:339:C:H2'	31:CA:340:U:H6	1.75	0.52
31:CA:501:C:OP1	42:CO:114:ARG:NH2	2.43	0.52
35:CH:153:LYS:HD3	35:CH:154:GLY:O	2.10	0.52
41:CN:33:THR:C	41:CN:40:ILE:HG13	2.34	0.52
31:DA:181:G:O2'	31:DA:183:G:O6	2.28	0.52
31:DA:386:C:C2'	31:DA:387:U:H5'	2.39	0.52
31:DA:930:C:C4	31:DA:931:C:C5	2.97	0.52
31:DA:941:G:C2'	31:DA:942:G:O5'	2.58	0.52
33:DF:101:LEU:HD23	33:DF:102:ASN:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DJ:72:ARG:HH21	37:DJ:96:GLN:HE22	1.57	0.52
39:DL:16:ARG:O	39:DL:63:ILE:HG23	2.10	0.52
40:DM:13:HIS:C	40:DM:13:HIS:HD2	2.12	0.52
49:DV:27:GLU:HG2	49:DV:47:HIS:CD2	2.45	0.52
53:DC:18:C:C2'	53:DC:18:C:O2	2.57	0.52
1:AA:50:U:H3'	1:AA:51:G:H5'	1.92	0.52
1:AA:213:A:H2'	1:AA:214:G:O4'	2.10	0.52
1:AA:456:C:C5	19:AT:69:TYR:CE1	2.97	0.52
1:AA:882:G:H1	1:AA:894:C:H42	1.58	0.52
1:AA:932:G:H4'	1:AA:933:A:O5'	2.08	0.52
1:AA:1177:A:H5''	1:AA:1178:C:O5'	2.10	0.52
1:AA:1252:G:O4'	16:A1:33:ARG:HD2	2.10	0.52
1:AA:1999:C:H4'	1:AA:2723:C:O2	2.10	0.52
1:AA:2094:G:OP1	8:AK:22:LYS:HG3	2.10	0.52
4:AE:73:GLU:HG3	4:AE:74:PRO:HD2	1.92	0.52
4:AE:80:GLU:O	4:AE:81:ILE:C	2.53	0.52
4:AE:179:GLU:HB3	4:AE:181:LEU:HD22	1.91	0.52
6:AG:67:LYS:HE2	26:A4:6:HIS:NE2	2.21	0.52
9:AM:96:GLU:O	9:AM:97:ARG:CB	2.56	0.52
11:AO:149:GLU:HG2	11:AO:150:ALA:H	1.74	0.52
12:AP:19:GLY:C	12:AP:98:LYS:HD3	2.34	0.52
14:AQ:5:THR:O	14:AQ:9:ARG:HB2	2.10	0.52
15:AR:20:PRO:HG2	15:AR:86:ILE:O	2.10	0.52
25:AX:7:LYS:HB2	25:AX:34:GLU:HG2	1.92	0.52
1:BA:573:G:O2'	1:BA:574:C:H3'	2.10	0.52
1:BA:603:A:H8	1:BA:604:G:H1'	1.74	0.52
1:BA:1449(A):G:O2'	1:BA:1450:C:H5'	2.10	0.52
1:BA:1858:G:H1'	1:BA:1884:A:H61	1.75	0.52
1:BA:2517:C:C2	1:BA:2542:A:N6	2.77	0.52
3:BD:28:GLU:O	3:BD:29:PRO:C	2.53	0.52
3:BD:35:LYS:HA	3:BD:64:ILE:CG2	2.39	0.52
5:BF:4:VAL:HG11	5:BF:17:ARG:HE	1.74	0.52
9:BM:46:VAL:HG12	9:BM:47:ALA:N	2.23	0.52
11:BO:90:ARG:HG3	11:BO:91:PHE:CD1	2.45	0.52
11:BO:122:PRO:CA	11:BO:141:ALA:HB1	2.39	0.52
12:BP:63:LYS:HB3	12:BP:107:ALA:O	2.09	0.52
31:CA:567:G:C2	31:CA:568:G:H1'	2.45	0.52
31:CA:668:G:O4'	45:CR:49:ASP:HB2	2.10	0.52
31:CA:880:C:OP1	42:CO:5:ASN:ND2	2.42	0.52
31:CA:959:A:C2	31:CA:1222:G:O4'	2.63	0.52
31:CA:1272:G:C6	31:CA:1273:G:C4	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1292:U:H2'	31:CA:1293:G:H8	1.74	0.52
35:CH:33:VAL:HG11	35:CH:109:ILE:HA	1.92	0.52
42:CO:3:THR:HG23	42:CO:6:GLN:NE2	2.23	0.52
44:CQ:24:CYS:HB3	44:CQ:28:GLY:H	1.75	0.52
44:CQ:36:PHE:CD1	44:CQ:36:PHE:C	2.88	0.52
52:CB:14:A:N6	52:CB:21:A:N6	2.56	0.52
53:CD:62:C:H2'	53:CD:63:C:C6	2.45	0.52
31:DA:191:G:HO2'	50:DW:103:GLY:HA2	1.71	0.52
31:DA:992:U:C2'	31:DA:993:G:OP2	2.58	0.52
31:DA:1087:G:N2	31:DA:1099:G:H1'	2.25	0.52
31:DA:1399:C:H4'	31:DA:1400:C:O5'	2.10	0.52
32:DE:76:GLN:HB3	32:DE:208:ILE:HD11	1.92	0.52
32:DE:92:TYR:HE2	32:DE:151:GLY:N	2.08	0.52
34:DG:88:VAL:HG13	35:DH:97:GLY:HA2	1.92	0.52
34:DG:162:LEU:HD12	34:DG:181:MET:CE	2.39	0.52
40:DM:56:HIS:O	40:DM:58:ASP:N	2.43	0.52
42:DO:40:VAL:HG11	42:DO:77:LEU:O	2.09	0.52
42:DO:75:HIS:HD2	42:DO:77:LEU:N	2.08	0.52
44:DQ:4:LYS:C	44:DQ:6:LEU:N	2.65	0.52
52:DB:55:G:H2'	52:DB:56:G:C8	2.45	0.52
53:DC:36:A:H2'	53:DC:37:U:C6	2.44	0.52
1:AA:434:U:H4'	1:AA:435:C:OP1	2.10	0.51
1:AA:654(R):C:C2'	1:AA:654(S):G:H5'	2.40	0.51
1:AA:1049:C:C4	1:AA:1050:A:C2	2.98	0.51
1:AA:1118:C:H2'	1:AA:1119:C:C6	2.45	0.51
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.09	0.51
1:AA:1694:C:H5'	1:AA:1694:C:H6	1.75	0.51
1:AA:1825:A:O4'	3:AD:254:THR:HG21	2.10	0.51
1:AA:2062:A:N3	1:AA:2062:A:C2'	2.71	0.51
1:AA:2168:G:N3	1:AA:2168:G:C2'	2.73	0.51
1:AA:2416:C:OP1	11:AO:64:LYS:O	2.27	0.51
4:AE:21:VAL:HG22	4:AE:21:VAL:O	2.09	0.51
4:AE:80:GLU:C	4:AE:82:ARG:N	2.66	0.51
6:AG:78:SER:HB2	53:CC:58:A:H5'	1.92	0.51
6:AG:114:ILE:HD11	6:AG:140:ILE:HD13	1.92	0.51
11:AO:82:GLY:HA2	11:AO:113:LYS:O	2.09	0.51
20:AU:48:ALA:O	20:AU:49:VAL:C	2.52	0.51
21:AV:30:ASN:HD22	21:AV:90:VAL:HB	1.75	0.51
21:AV:82:ARG:O	21:AV:82:ARG:HG3	2.09	0.51
23:AZ:86:SER:O	23:AZ:89:GLU:HB2	2.11	0.51
1:BA:142:G:H2'	1:BA:143:C:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:322:A:C5	1:BA:340:A:C2	2.98	0.51
1:BA:873:G:C2	1:BA:905:U:O2	2.63	0.51
1:BA:1042:G:H2'	1:BA:1043:C:O4'	2.11	0.51
1:BA:2795:G:H1'	1:BA:2802:G:N2	2.25	0.51
4:BE:201:THR:C	4:BE:202:LYS:HD2	2.35	0.51
5:BF:3:GLU:HG3	5:BF:20:LEU:C	2.35	0.51
5:BF:11:VAL:HG23	5:BF:12:LEU:H	1.75	0.51
7:BH:12:PRO:HB3	7:BH:17:VAL:HG21	1.90	0.51
12:BP:4:PRO:HD3	12:BP:70:PRO:O	2.09	0.51
14:BQ:39:ILE:HG22	14:BQ:39:ILE:O	2.09	0.51
14:BQ:110:LEU:HD23	14:BQ:112:PHE:CZ	2.45	0.51
16:B1:92:ARG:NE	17:B2:11:GLN:HB2	2.26	0.51
20:BU:33:LYS:NZ	20:BU:34:LYS:HE2	2.25	0.51
20:BU:46:LYS:O	20:BU:47:LYS:C	2.52	0.51
26:B4:56:VAL:CA	26:B4:60:GLN:HE21	2.16	0.51
28:B6:10:LEU:HD23	30:B8:34:TRP:HE1	1.75	0.51
28:B6:26:ASN:OD1	28:B6:28:ARG:HB2	2.10	0.51
31:CA:411:A:C6	31:CA:429:U:C5	2.98	0.51
31:CA:428:G:H4'	31:CA:429:U:OP1	2.09	0.51
31:CA:1498:U:H1'	31:CA:1499:A:OP2	2.09	0.51
33:CF:196:LEU:HD23	33:CF:196:LEU:N	2.25	0.51
34:CG:86:LYS:HG2	34:CG:86:LYS:O	2.10	0.51
34:CG:142:PRO:HG3	34:CG:187:ARG:HA	1.92	0.51
38:CK:9:MET:SD	38:CK:26:VAL:HG21	2.50	0.51
45:CR:63:ARG:O	45:CR:67:LEU:HD12	2.10	0.51
53:CD:59:A:H8	53:CD:59:A:O5'	1.93	0.51
31:DA:713:G:H2'	31:DA:714:G:C8	2.45	0.51
31:DA:1187:G:OP1	39:DL:113:LYS:NZ	2.43	0.51
33:DF:186:PHE:CE2	33:DF:188:LEU:HD21	2.45	0.51
34:DG:108:LEU:HD13	34:DG:174:LEU:HD13	1.92	0.51
35:DH:73:ASN:OD1	35:DH:73:ASN:N	2.43	0.51
39:DL:95:LYS:HZ2	39:DL:96:LEU:HA	1.75	0.51
1:AA:1141:U:C5	9:AM:64:GLY:HA3	2.45	0.51
1:AA:1674:G:N2	1:AA:1677:A:N1	2.55	0.51
1:AA:1690:A:H2'	1:AA:1691:C:O4'	2.10	0.51
1:AA:1820:U:O2	3:AD:202:LYS:HB3	2.10	0.51
1:AA:1906:G:C2	1:AA:1907:G:C8	2.97	0.51
1:AA:2210:G:H5'	1:AA:2211:G:C5	2.45	0.51
1:AA:2285:C:H5	28:A6:27:LYS:HD2	1.75	0.51
1:AA:2303:G:C2'	1:AA:2304:G:H5'	2.39	0.51
2:AB:28:C:OP1	14:AQ:36:TYR:OH	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:120:TRP:O	4:AE:121:ASN:HB2	2.10	0.51
5:AF:51:THR:HB	5:AF:88:VAL:HG21	1.91	0.51
8:AK:37:VAL:HG22	8:AK:38:LEU:HD12	1.91	0.51
8:AK:107:VAL:HG12	8:AK:108:THR:N	2.21	0.51
9:AM:38:HIS:HE1	9:AM:50:ASP:OD2	1.93	0.51
13:A0:37:THR:HB	13:A0:39:PRO:HD2	1.91	0.51
19:AT:49:VAL:CG1	19:AT:50:LYS:N	2.72	0.51
26:A4:36:CYS:O	26:A4:41:PRO:HD2	2.10	0.51
27:A5:16:ARG:HD2	27:A5:20:ARG:NH1	2.25	0.51
1:BA:99:U:C2	1:BA:102:G:N2	2.78	0.51
1:BA:217:G:H2'	1:BA:218:A:O4'	2.10	0.51
1:BA:945:A:C4	1:BA:2448:A:N3	2.78	0.51
1:BA:1287:A:H5''	1:BA:1288:U:OP2	2.10	0.51
1:BA:1858:G:H1'	1:BA:1884:A:N6	2.26	0.51
1:BA:1858:G:H8	1:BA:1858:G:OP2	1.92	0.51
1:BA:2107:C:H42	1:BA:2182:G:H1	1.57	0.51
1:BA:2688:U:O2	1:BA:2688:U:C3'	2.59	0.51
1:BA:2857:G:N2	1:BA:2859:G:H3'	2.25	0.51
1:BA:2875:C:C4'	15:BR:5:ALA:HB2	2.37	0.51
3:BD:120:GLY:HA2	3:BD:190:TYR:OH	2.10	0.51
4:BE:4:ILE:CG2	4:BE:95:ILE:HD11	2.39	0.51
4:BE:182:LEU:C	4:BE:183:LEU:HD12	2.34	0.51
5:BF:8:GLN:NE2	5:BF:8:GLN:O	2.43	0.51
17:B2:85:LYS:HG3	17:B2:87:HIS:H	1.75	0.51
31:CA:421:U:H3	33:CF:127:ARG:HH21	1.57	0.51
31:CA:532:A:H2	31:CA:1206:G:H21	1.58	0.51
31:CA:675:A:H1'	41:CN:116:HIS:ND1	2.25	0.51
31:CA:1002:G:H2'	31:CA:1003:G:O4'	2.10	0.51
31:CA:1025:U:O2'	31:CA:1026:G:C8	2.63	0.51
31:CA:1193:G:H2'	31:CA:1194:U:H5'	1.91	0.51
31:CA:1441:G:H5''	31:CA:1442:G:OP1	2.09	0.51
32:CE:178:ARG:NH1	32:CE:178:ARG:HG2	2.25	0.51
33:CF:104:GLN:HE21	33:CF:104:GLN:CA	2.24	0.51
34:CG:12:CYS:SG	34:CG:19:LEU:HD21	2.41	0.51
36:CI:97:PHE:HD2	48:CU:31:LEU:HD21	1.76	0.51
43:CP:8:GLU:OE1	43:CP:67:GLU:HG3	2.10	0.51
50:CW:33:ILE:CG2	50:CW:63:ILE:HG12	2.40	0.51
31:DA:114:U:O2'	31:DA:115:G:H5'	2.09	0.51
31:DA:407:G:C6	31:DA:408:A:N6	2.78	0.51
31:DA:606:G:H21	31:DA:631:G:C2'	2.23	0.51
31:DA:731:G:OP1	31:DA:766:A:H1'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DE:42:ILE:HD13	32:DE:203:GLY:N	2.25	0.51
40:DM:6:ILE:HG22	40:DM:98:ILE:CG2	2.40	0.51
52:DB:58:U:H5'	52:DB:59:U:OP2	2.10	0.51
53:DC:40:C:H2'	53:DC:41:C:H6	1.75	0.51
1:AA:7:G:H2'	1:AA:8:A:O4'	2.11	0.51
1:AA:715:G:O2'	1:AA:716:A:H5'	2.10	0.51
3:AD:244:ARG:HB2	3:AD:245:PRO:HD2	1.91	0.51
4:AE:74:PRO:HD2	4:AE:77:ILE:CG2	2.39	0.51
4:AE:182:LEU:C	4:AE:183:LEU:HD12	2.36	0.51
5:AF:125:LEU:HD21	5:AF:199:TRP:CE3	2.45	0.51
6:AG:67:LYS:HG2	26:A4:5:ILE:HG23	1.93	0.51
7:AH:46:GLU:HB2	7:AH:49:VAL:HG23	1.92	0.51
9:AM:60:ILE:HD13	9:AM:60:ILE:N	2.23	0.51
11:AO:47:ASP:OD2	11:AO:49:ARG:HG2	2.10	0.51
17:A2:39:LEU:HD11	17:A2:51:VAL:HG22	1.89	0.51
28:A6:15:GLU:OE2	28:A6:44:ARG:NH1	2.43	0.51
1:BA:667:U:O2	30:B8:2:PRO:HD2	2.10	0.51
1:BA:817:C:C5	1:BA:818:G:N7	2.78	0.51
1:BA:1005:C:C1'	1:BA:1143:A:N1	2.74	0.51
1:BA:1109:C:H5	1:BA:1110:G:C6	2.28	0.51
1:BA:1688:U:H1'	1:BA:1701:A:C6	2.44	0.51
1:BA:2219:G:OP1	3:BD:172:TYR:OH	2.21	0.51
1:BA:2312:U:O2'	6:BG:40:ASN:ND2	2.44	0.51
1:BA:2654:A:OP1	1:BA:2654:A:H8	1.93	0.51
1:BA:2876:G:O5'	15:BR:3:ARG:HA	2.10	0.51
4:BE:11:MET:SD	4:BE:24:THR:HG22	2.51	0.51
4:BE:47:VAL:HG12	4:BE:49:LEU:CD2	2.39	0.51
4:BE:151:TYR:CD2	4:BE:154:LYS:NZ	2.61	0.51
6:BG:108:ASN:ND2	26:B4:38:LYS:HG2	2.25	0.51
7:BH:102:ALA:HB1	7:BH:115:VAL:C	2.35	0.51
7:BH:118:PRO:CD	7:BH:121:ILE:HG13	2.40	0.51
11:BO:81:GLN:CB	11:BO:106:LEU:CD2	2.85	0.51
16:B1:98:LEU:O	16:B1:99:ALA:CB	2.58	0.51
20:BU:47:LYS:N	20:BU:60:PHE:HB3	2.25	0.51
31:CA:195:A:C6	31:CA:196:A:N1	2.78	0.51
31:CA:264:U:H4'	47:CT:63:ARG:HD2	1.93	0.51
31:CA:939:G:C6	31:CA:940:C:N4	2.79	0.51
31:CA:952:U:O4	43:CP:104:ARG:HD3	2.10	0.51
31:CA:1169:A:N6	31:CA:1170:A:C2	2.79	0.51
31:CA:1263:C:O2'	31:CA:1264:C:H5'	2.11	0.51
31:CA:1281:U:H5''	31:CA:1282:C:OP2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1405:G:O4'	31:CA:1519:A:H4'	2.10	0.51
31:CA:1510:U:H2'	31:CA:1511:G:C8	2.46	0.51
33:CF:20:SER:HB3	33:CF:40:ARG:NH2	2.21	0.51
33:CF:40:ARG:HG3	33:CF:40:ARG:NH1	2.25	0.51
35:CH:31:LEU:HD11	35:CH:129:ILE:HA	1.92	0.51
38:CK:86:ILE:HG22	38:CK:87:SER:N	2.25	0.51
40:CM:30:SER:CB	40:CM:84:GLN:HG3	2.40	0.51
44:CQ:12:ARG:C	44:CQ:14:PRO:CD	2.83	0.51
51:CX:15:ARG:HH11	51:CX:15:ARG:HG2	1.75	0.51
31:DA:167:G:O2'	31:DA:168:G:H5'	2.10	0.51
31:DA:920:U:H2'	31:DA:921:U:H6	1.74	0.51
31:DA:1011:G:C2	31:DA:1019:C:O2	2.63	0.51
32:DE:187:LEU:HA	32:DE:201:ILE:O	2.10	0.51
43:DP:29:ARG:HB3	43:DP:64:TRP:CZ2	2.46	0.51
45:DR:54:ARG:NH1	45:DR:58:MET:SD	2.84	0.51
49:DV:28:LYS:NZ	49:DV:29:ARG:HG2	2.24	0.51
1:AA:269:U:O2	1:AA:269:U:H2'	2.10	0.51
1:AA:508:G:C6	18:AS:9:TYR:CD2	2.99	0.51
1:AA:897:C:H2'	1:AA:898:C:O4'	2.10	0.51
1:AA:1300:U:H4'	1:AA:1301:A:H5'	1.91	0.51
1:AA:2014:A:O2'	27:A5:2:ALA:HB2	2.10	0.51
1:AA:2125:G:H1	1:AA:2172:U:P	2.34	0.51
1:AA:2255:G:H22	12:AP:85:LYS:HE2	1.69	0.51
1:AA:2474:C:H3'	1:AA:2475:C:H6	1.74	0.51
1:AA:2881:C:N4	1:AA:2882:A:N6	2.58	0.51
8:AK:144:VAL:HG22	8:AK:145:VAL:HG13	1.93	0.51
9:AM:35:ARG:O	9:AM:35:ARG:CG	2.57	0.51
12:AP:20:ALA:O	12:AP:21:THR:HB	2.10	0.51
13:A0:10:LEU:O	13:A0:11:ASN:C	2.53	0.51
16:A1:66:ASN:ND2	16:A1:66:ASN:O	2.44	0.51
18:AS:95:ILE:O	18:AS:95:ILE:HG13	2.09	0.51
21:AV:107:THR:HB	21:AV:108:PRO:CD	2.40	0.51
27:A5:40:LYS:CD	27:A5:46:CYS:HB3	2.40	0.51
1:BA:67:U:N3	1:BA:74:A:C2	2.68	0.51
1:BA:184:C:H2'	1:BA:185:U:C6	2.44	0.51
1:BA:197:A:N6	1:BA:2430:A:H2'	2.24	0.51
1:BA:459:U:H2'	1:BA:460:A:H8	1.75	0.51
1:BA:613:U:O2	1:BA:613:U:O4'	2.29	0.51
1:BA:639:U:H2'	1:BA:640:C:C6	2.45	0.51
1:BA:1154:G:OP1	16:B1:58:ARG:HD2	2.10	0.51
1:BA:1171:G:H1	1:BA:1178:C:N4	2.05	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1454:U:OP1	13:B0:77:ARG:HD3	2.09	0.51
1:BA:1668:A:N3	1:BA:1670:C:C4	2.79	0.51
1:BA:2312:U:H6	1:BA:2312:U:H3'	1.76	0.51
2:BB:16:G:H2'	2:BB:17:C:H6	1.75	0.51
2:BB:75:G:H5'	2:BB:75:G:C8	2.33	0.51
8:BK:130:TYR:O	8:BK:136:VAL:HG12	2.10	0.51
15:BR:45:PHE:CE1	15:BR:74:ARG:HB2	2.46	0.51
18:BS:20:VAL:CG2	18:BS:47:VAL:HG21	2.39	0.51
20:BU:9:LYS:O	20:BU:27:VAL:HG22	2.10	0.51
21:BV:28:MET:HG3	21:BV:37:VAL:HG11	1.91	0.51
31:CA:217:C:O2'	31:CA:466:C:N4	2.42	0.51
31:CA:960:U:O2	31:CA:1225:A:C6	2.63	0.51
31:CA:1303:C:H2'	31:CA:1304:G:H5'	1.93	0.51
31:CA:1417:G:N2	31:CA:1482:G:H2'	2.25	0.51
32:CE:42:ILE:HD11	32:CE:202:PRO:HB2	1.92	0.51
35:CH:45:PHE:CE2	35:CH:47:LYS:HD2	2.45	0.51
42:CO:50:ARG:HB3	42:CO:66:TYR:HE1	1.75	0.51
43:CP:84:ILE:HG13	49:CV:66:MET:HG2	1.90	0.51
46:CS:43:LYS:HG2	46:CS:48:TRP:CD2	2.45	0.51
52:CB:41:G:C6	52:CB:42:U:C4	2.97	0.51
31:DA:142:G:H2'	31:DA:143:A:C8	2.45	0.51
31:DA:255:G:O3'	47:DT:17:LYS:HD2	2.10	0.51
31:DA:353:A:C2'	31:DA:354:G:OP2	2.58	0.51
31:DA:1028(B):C:N4	31:DA:1032(B):G:N1	2.59	0.51
31:DA:1227:A:O3'	43:DP:115:LYS:HD2	2.11	0.51
31:DA:1333:A:H2'	31:DA:1334:G:O4'	2.11	0.51
31:DA:1348:U:N3	31:DA:1374:A:C2	2.76	0.51
34:DG:61:LYS:HA	34:DG:203:VAL:HG22	1.92	0.51
35:DH:51:VAL:HB	35:DH:52:PRO:CD	2.40	0.51
35:DH:91:LEU:HD12	35:DH:120:THR:CG2	2.34	0.51
40:DM:75:ILE:HD12	40:DM:76:ASN:CG	2.35	0.51
42:DO:60:LEU:C	42:DO:62:SER:N	2.69	0.51
44:DQ:45:ARG:O	44:DQ:49:HIS:CD2	2.64	0.51
1:AA:273(F):C:H3'	1:AA:274:G:C5'	2.35	0.51
1:AA:286:C:H2'	1:AA:287:C:C6	2.45	0.51
1:AA:488:G:H1'	1:AA:492:A:N6	2.26	0.51
1:AA:638:G:C5	1:AA:651:G:C2	2.99	0.51
1:AA:651:G:P	30:A8:19:SER:HG	2.32	0.51
1:AA:1142(A):A:C4	1:AA:1144:G:C8	2.98	0.51
1:AA:2112:G:N2	53:CD:58:A:N1	2.59	0.51
1:AA:2373:G:H1	1:AA:2380:C:N4	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2394:C:OP1	11:AO:62:LEU:CB	2.58	0.51
1:AA:2474:C:H3'	1:AA:2475:C:C6	2.46	0.51
4:AE:53:PRO:O	4:AE:54:GLN:HB2	2.09	0.51
5:AF:64:ILE:HG23	5:AF:65:TRP:CD1	2.46	0.51
7:AH:83:TYR:HB3	7:AH:135:GLY:N	1.99	0.51
8:AK:29:TYR:HD2	8:AK:30:LEU:HD23	1.76	0.51
11:AO:9:ASN:CB	11:AO:10:PRO:HD2	2.22	0.51
11:AO:29:LYS:CD	11:AO:30:THR:HG22	2.39	0.51
15:AR:12:SER:OG	15:AR:57:PHE:CD1	2.62	0.51
19:AT:60:ARG:NH1	29:A7:47:ARG:HH22	2.08	0.51
24:AW:47:ASN:O	24:AW:49:LYS:N	2.42	0.51
25:AX:43:ILE:O	25:AX:47:VAL:HG23	2.09	0.51
1:BA:958:U:O2	2:BB:89(A):A:H4'	2.11	0.51
1:BA:1080:A:H2'	1:BA:1081:U:C6	2.46	0.51
1:BA:1434:A:H61	1:BA:1558:A:N6	2.05	0.51
1:BA:1525:G:H2'	1:BA:1526:G:H8	1.75	0.51
1:BA:1657:C:H2'	1:BA:1658:C:H6	1.74	0.51
1:BA:1742:C:H5'	1:BA:1743:G:OP2	2.09	0.51
1:BA:2126:A:H1'	1:BA:2127:G:H5''	1.93	0.51
1:BA:2170:A:H5''	1:BA:2171:A:OP2	2.10	0.51
4:BE:141:ILE:HD12	4:BE:150:VAL:HG21	1.93	0.51
6:BG:105:LYS:O	6:BG:109:VAL:HB	2.11	0.51
6:BG:150:ASP:CG	6:BG:151:ALA:N	2.69	0.51
8:BK:5:LEU:HD12	8:BK:5:LEU:N	2.26	0.51
10:BN:14:THR:HG22	10:BN:51:ALA:HB3	1.93	0.51
11:BO:101:VAL:CG2	11:BO:106:LEU:HD13	2.39	0.51
17:B2:73:SER:HA	17:B2:83:ARG:O	2.10	0.51
25:BX:13:ILE:HD12	25:BX:13:ILE:H	1.76	0.51
31:CA:256:U:H2'	31:CA:257:G:C8	2.46	0.51
31:CA:778:G:H8	31:CA:778:G:O5'	1.92	0.51
31:CA:1150:U:H5''	31:CA:1151:A:OP2	2.09	0.51
31:CA:1486:G:H2'	31:CA:1487:G:O4'	2.10	0.51
34:CG:138:TYR:CD2	34:CG:138:TYR:C	2.88	0.51
36:CI:61:LEU:HB3	36:CI:63:TYR:HE2	1.75	0.51
38:CK:7:ALA:HB2	38:CK:85:ARG:HD2	1.91	0.51
44:CQ:53:LEU:HB3	44:CQ:56:VAL:HG21	1.90	0.51
50:CW:67:ALA:O	50:CW:73:HIS:CE1	2.64	0.51
31:DA:115:G:H4'	31:DA:116:A:O5'	2.10	0.51
31:DA:694:A:OP1	41:DN:53:SER:HB2	2.11	0.51
31:DA:975:A:OP1	40:DM:57:LYS:NZ	2.44	0.51
31:DA:1023:G:C6	31:DA:1024:G:N7	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1162:C:H42	31:DA:1174:G:H1	1.58	0.51
31:DA:1494:G:N7	56:DA:1805:PAR:N32	2.59	0.51
34:DG:5:ILE:HG22	34:DG:5:ILE:O	2.11	0.51
34:DG:30:LYS:HE2	34:DG:30:LYS:N	2.25	0.51
39:DL:14:VAL:O	39:DL:65:VAL:HA	2.10	0.51
1:AA:28:A:C2	1:AA:513:A:C8	2.99	0.51
1:AA:857:C:H4'	22:A3:23:VAL:HG21	1.91	0.51
1:AA:1077:A:N3	1:AA:1078:U:H5''	2.25	0.51
1:AA:1971:A:C5	3:AD:241:PRO:HD3	2.46	0.51
1:AA:2115:G:OP2	1:AA:2115:G:H3'	2.10	0.51
6:AG:73:ALA:HB1	6:AG:82:LEU:CD1	2.40	0.51
7:AH:152:ARG:HE	7:AH:153:LYS:NZ	2.09	0.51
7:AH:168:PRO:O	7:AH:169:VAL:HG12	2.10	0.51
12:AP:32:TYR:CE1	12:AP:133:ARG:HG3	2.45	0.51
16:A1:57:PHE:O	16:A1:60:LEU:N	2.44	0.51
21:AV:61:LEU:HD12	21:AV:62:PRO:O	2.11	0.51
21:AV:152:ALA:O	21:AV:155:LEU:HB2	2.10	0.51
23:AZ:53:VAL:HG21	23:AZ:74:VAL:HG22	1.93	0.51
24:AW:16:LEU:O	24:AW:16:LEU:CG	2.56	0.51
1:BA:598:G:C1'	11:BO:12:ALA:HB2	2.41	0.51
1:BA:660:G:H21	11:BO:12:ALA:HA	1.75	0.51
1:BA:812:C:H5''	1:BA:1250:G:O2'	2.10	0.51
1:BA:871:U:OP1	12:BP:5:ARG:HG3	2.10	0.51
1:BA:1027:A:C2	1:BA:2488:A:H5'	2.46	0.51
1:BA:1111:A:C4'	7:BH:3:ARG:HD3	2.34	0.51
1:BA:1278:A:H2'	1:BA:1279:G:H8	1.74	0.51
1:BA:1454:U:C5	1:BA:2702:U:O4	2.64	0.51
1:BA:1509:C:H2'	1:BA:1509:C:O2	2.10	0.51
1:BA:2389:G:H5''	1:BA:2390:U:O4'	2.10	0.51
1:BA:2575:C:H2'	1:BA:2578:G:O6	2.11	0.51
1:BA:2794:C:H2'	1:BA:2795:G:O4'	2.10	0.51
1:BA:2820:A:O2'	4:BE:191:PRO:HG3	2.11	0.51
3:BD:35:LYS:CB	3:BD:64:ILE:H	2.22	0.51
9:BM:120:LEU:HD21	9:BM:122:VAL:HG23	1.92	0.51
22:B3:36:ILE:CD1	22:B3:36:ILE:N	2.73	0.51
28:B6:15:GLU:HG3	28:B6:47:THR:HG21	1.89	0.51
28:B6:22:ALA:HB2	28:B6:42:TRP:CH2	2.46	0.51
31:CA:74:C:N4	31:CA:96:G:H1	2.07	0.51
31:CA:666:G:C2	31:CA:741:G:C4	2.98	0.51
31:CA:914:A:H2'	31:CA:915:A:H8	1.73	0.51
31:CA:926:G:C6	31:CA:1505:G:C6	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:102:LEU:HB3	32:CE:180:LEU:HD12	1.93	0.51
37:CJ:21:VAL:HG23	37:CJ:22:LEU:H	1.76	0.51
40:CM:34:VAL:CG1	40:CM:74:ILE:HG23	2.41	0.51
31:DA:28:G:O2'	31:DA:296:U:OP1	2.24	0.51
31:DA:391:G:H8	31:DA:391:G:O5'	1.94	0.51
31:DA:485:G:C2'	31:DA:486:U:OP2	2.58	0.51
31:DA:657:G:N2	45:DR:22:THR:OG1	2.26	0.51
31:DA:952:U:C5	43:DP:104:ARG:NH2	2.78	0.51
31:DA:1240:U:C4	37:DJ:32:ARG:HG3	2.46	0.51
31:DA:1324:A:H4'	31:DA:1362:C:H4'	1.93	0.51
31:DA:1392:G:N2	31:DA:1502:A:H8	2.09	0.51
32:DE:134:GLU:O	32:DE:138:LEU:HG	2.10	0.51
40:DM:54:PHE:CD1	40:DM:55:LYS:HE3	2.45	0.51
46:DS:11:SER:HB2	46:DS:14:ASN:HB3	1.91	0.51
46:DS:17:TYR:CE1	46:DS:41:PRO:HG3	2.45	0.51
46:DS:21:VAL:O	46:DS:33:ILE:HG12	2.11	0.51
48:DU:37:VAL:CG1	48:DU:78:LEU:HB3	2.41	0.51
53:DD:49:C:C4	53:DD:60:A:C8	2.98	0.51
1:AA:448:U:C4	1:AA:583:G:H1'	2.46	0.51
1:AA:833:U:H2'	1:AA:834:C:C6	2.46	0.51
1:AA:882:G:H2'	1:AA:883:G:N7	2.24	0.51
1:AA:1087:G:C5	1:AA:1089:G:H1'	2.45	0.51
1:AA:1101:U:H2'	1:AA:1102:C:C6	2.46	0.51
1:AA:1111:A:O2'	1:AA:1112:G:C4'	2.59	0.51
1:AA:1130:U:O2'	1:AA:1131:G:P	2.69	0.51
1:AA:1156:A:H4'	1:AA:1157:G:OP2	2.11	0.51
1:AA:1381:G:C2'	1:AA:1382:G:H5'	2.40	0.51
1:AA:2123:G:C4	1:AA:2176:A:C2	2.99	0.51
1:AA:2168:G:P	1:AA:2168:G:O4'	2.68	0.51
1:AA:2320:A:H2'	1:AA:2320:A:N3	2.25	0.51
1:AA:2371:G:H4'	28:A6:45:LYS:CB	2.40	0.51
2:AB:1:U:H2'	2:AB:2:C:H6	1.74	0.51
2:AB:60:C:C2	2:AB:61:G:C8	2.99	0.51
4:AE:24:THR:HB	4:AE:188:VAL:HG13	1.92	0.51
16:A1:65:ILE:HG12	16:A1:96:ALA:CB	2.41	0.51
18:AS:71:VAL:HA	18:AS:107:LEU:HD12	1.91	0.51
24:AW:35:LEU:HD11	24:AW:49:LYS:HB2	1.92	0.51
28:A6:14:THR:O	28:A6:49:HIS:HA	2.11	0.51
1:BA:288:C:H3'	1:BA:289:A:H8	1.75	0.51
1:BA:322:A:H5'	1:BA:340:A:C1'	2.41	0.51
1:BA:1060:U:C2	1:BA:1088:A:H8	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1750:G:O2'	1:BA:1751:C:H5'	2.11	0.51
1:BA:2046:G:H5'	27:B5:19:ARG:HG3	1.93	0.51
1:BA:2315:G:H2'	1:BA:2316:C:C6	2.46	0.51
6:BG:124:SER:HB2	6:BG:131:TYR:CE1	2.44	0.51
7:BH:4:ILE:HG13	7:BH:6:ARG:H	1.76	0.51
11:BO:88:LEU:HD11	11:BO:95:VAL:HG21	1.92	0.51
12:BP:57:HIS:O	12:BP:57:HIS:ND1	2.44	0.51
12:BP:58:PHE:CE1	12:BP:117:ALA:HB2	2.46	0.51
18:BS:73:ALA:O	18:BS:106:ILE:HG23	2.11	0.51
20:BU:83:THR:HG22	20:BU:85:VAL:HG23	1.93	0.51
31:CA:147:G:C2	31:CA:176:C:O2	2.63	0.51
31:CA:164:U:H2'	31:CA:165:C:C6	2.45	0.51
31:CA:186(C):G:H2'	31:CA:186(D):C:C6	2.46	0.51
31:CA:329:A:C4	31:CA:332:G:C5	2.99	0.51
31:CA:438:G:O2'	31:CA:439:A:H5''	2.11	0.51
31:CA:1098:C:C2	31:CA:1099:G:C8	2.98	0.51
37:CJ:79:ARG:NH2	37:CJ:82:GLY:HA2	2.26	0.51
38:CK:87:SER:HB2	38:CK:93:VAL:CG2	2.41	0.51
47:CT:45:HIS:O	47:CT:73:VAL:HG23	2.10	0.51
53:CD:19:G:H4'	53:CD:61:U:O2	2.11	0.51
31:DA:75:C:H2'	31:DA:76:G:O4'	2.11	0.51
31:DA:528:C:H2'	31:DA:529:G:O5'	2.11	0.51
31:DA:1137:C:H4'	31:DA:1138:G:C2	2.46	0.51
36:DI:86:ARG:O	36:DI:87:ARG:HG2	2.11	0.51
38:DK:29:SER:HB3	38:DK:32:LYS:HD2	1.91	0.51
46:DS:17:TYR:HE1	46:DS:41:PRO:HG3	1.76	0.51
47:DT:56:VAL:O	47:DT:77:VAL:HB	2.11	0.51
48:DU:22:VAL:HG22	48:DU:23:LYS:N	2.24	0.51
49:DV:15:LEU:HD21	49:DV:31:ILE:HG12	1.93	0.51
50:DW:51:GLU:HA	50:DW:54:LYS:HE3	1.93	0.51
1:AA:448:U:O4	1:AA:583:G:H1'	2.11	0.51
1:AA:1193:G:H2'	1:AA:1194:A:C8	2.46	0.51
1:AA:2099:U:H3	1:AA:2190:G:H1	1.59	0.51
1:AA:2330:G:H2'	1:AA:2331:G:O4'	2.11	0.51
1:AA:2564:A:C2	1:AA:2647:U:H4'	2.46	0.51
3:AD:35:LYS:CE	3:AD:104:TYR:HD1	2.24	0.51
6:AG:82:LEU:O	6:AG:82:LEU:CG	2.57	0.51
9:AM:90:MET:O	9:AM:94:HIS:N	2.42	0.51
12:AP:27:VAL:CG2	12:AP:138:ASP:OD2	2.58	0.51
17:A2:35:LEU:C	17:A2:37:VAL:H	2.18	0.51
30:A8:10:ALA:O	30:A8:14:VAL:HB	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:58:ILE:HA	30:A8:61:LEU:HG	1.92	0.51
1:BA:185:U:H4'	1:BA:218:A:H4'	1.92	0.51
1:BA:531:C:OP1	1:BA:561:G:C2	2.64	0.51
1:BA:1636:C:H2'	1:BA:1637:A:C8	2.46	0.51
1:BA:2129:C:C4	1:BA:2130:U:C4	2.99	0.51
1:BA:2494:G:C4	1:BA:2495:G:C8	2.99	0.51
2:BB:56:G:H4'	2:BB:57:A:H8	1.76	0.51
11:BO:65:ARG:NH1	11:BO:65:ARG:CG	2.58	0.51
15:BR:18:ASP:OD1	15:BR:18:ASP:N	2.28	0.51
15:BR:19:LEU:HD22	15:BR:86:ILE:HG22	1.92	0.51
16:B1:88:ILE:HG22	17:B2:49:THR:HA	1.92	0.51
19:BT:10:ALA:HB1	19:BT:11:PRO:HD2	1.92	0.51
20:BU:60:PHE:N	20:BU:60:PHE:HD2	2.09	0.51
20:BU:75:ILE:HG13	20:BU:76:CYS:N	2.22	0.51
23:BZ:4:VAL:HG12	23:BZ:11:ARG:CB	2.40	0.51
24:BW:53:LEU:O	24:BW:57:ILE:HG13	2.10	0.51
31:CA:90:C:C5	31:CA:91:C:C5	2.98	0.51
31:CA:606:G:H2'	31:CA:606:G:N3	2.26	0.51
31:CA:667:G:H4'	45:CR:51:HIS:ND1	2.24	0.51
31:CA:706:A:O2'	41:CN:31:THR:HG22	2.11	0.51
31:CA:1132:C:N4	31:CA:1143:G:N2	2.58	0.51
31:CA:1293:G:H2'	31:CA:1294:G:O4'	2.10	0.51
34:CG:31:CYS:C	34:CG:33:MET:H	2.18	0.51
40:CM:92:THR:OG1	40:CM:93:GLY:N	2.42	0.51
40:CM:96:ILE:HD13	40:CM:96:ILE:N	2.26	0.51
41:CN:57:THR:HG23	41:CN:58:PRO:HD2	1.92	0.51
43:CP:12:ASN:OD1	43:CP:13:LYS:N	2.40	0.51
50:CW:13:LEU:C	50:CW:13:LEU:CD1	2.81	0.51
53:CD:53:G:H1	53:CD:63:C:H42	1.58	0.51
53:CD:55:U:H3	53:CD:59:A:N6	2.07	0.51
31:DA:201:C:C4'	31:DA:208:U:OP1	2.58	0.51
31:DA:409:G:H1	31:DA:433:C:N4	2.06	0.51
31:DA:604:G:H2'	31:DA:605:U:O4'	2.11	0.51
31:DA:1206:G:C5	31:DA:1207:G:N7	2.79	0.51
31:DA:1350:A:C6	31:DA:1351:U:N3	2.78	0.51
33:DF:20:SER:HB2	33:DF:40:ARG:HH22	1.74	0.51
34:DG:107:ARG:CD	34:DG:173:TRP:HZ2	2.23	0.51
34:DG:156:GLU:O	34:DG:160:GLN:HG3	2.11	0.51
35:DH:12:LEU:O	35:DH:30:ALA:HA	2.11	0.51
35:DH:148:VAL:HG21	38:DK:107:LEU:HD23	1.93	0.51
38:DK:93:VAL:O	38:DK:132:GLU:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DM:29:ARG:C	40:DM:31:GLY:N	2.68	0.51
43:DP:54:VAL:O	43:DP:58:GLU:HG2	2.11	0.51
43:DP:70:LEU:O	43:DP:74:VAL:HG23	2.10	0.51
47:DT:18:THR:HG23	47:DT:69:LYS:HD2	1.92	0.51
53:DD:41:C:H2'	53:DD:42:C:C6	2.46	0.51
1:AA:205:G:O2'	1:AA:206:U:P	2.69	0.51
1:AA:263:C:H2'	1:AA:264:C:O4'	2.11	0.51
1:AA:389:G:H22	11:AO:72:PRO:CD	2.23	0.51
1:AA:483:A:C5'	20:AU:49:VAL:HG22	2.40	0.51
1:AA:1028:A:N6	1:AA:1125:G:H2'	2.25	0.51
1:AA:1057:A:O2'	1:AA:1058:U:O4'	2.10	0.51
1:AA:1301:A:C8	1:AA:1303:G:C8	2.99	0.51
1:AA:1939:U:OP1	1:AA:2604:U:O2'	2.29	0.51
1:AA:2839:G:C5	1:AA:2840:C:C5	2.99	0.51
2:AB:6:C:H2'	2:AB:7:G:H5''	1.93	0.51
4:AE:78:LEU:CD2	4:AE:79:ARG:HD2	2.40	0.51
5:AF:28:ILE:HD12	5:AF:28:ILE:O	2.11	0.51
5:AF:50:SER:HB2	5:AF:94:PRO:HD3	1.92	0.51
6:AG:111:LEU:HB2	6:AG:112:PRO:HD3	1.93	0.51
13:A0:72:ASP:O	13:A0:76:VAL:HG23	2.11	0.51
20:AU:63:LYS:HD2	20:AU:64:GLU:H	1.76	0.51
21:AV:35:ARG:HB3	21:AV:35:ARG:NH1	2.26	0.51
27:A5:52:TYR:HD1	27:A5:53:ALA:H	1.58	0.51
28:A6:15:GLU:HB2	28:A6:20:ASN:HB2	1.92	0.51
1:BA:221:A:C8	1:BA:266:G:C5	2.99	0.51
1:BA:1165:U:H2'	1:BA:1166:C:C6	2.45	0.51
1:BA:1515:C:H2'	1:BA:1516:U:C6	2.46	0.51
1:BA:2127:G:H1	1:BA:2161:C:H42	1.57	0.51
1:BA:2187:G:H2'	1:BA:2188:C:O4'	2.11	0.51
1:BA:2304:G:C2'	1:BA:2305:A:O5'	2.59	0.51
4:BE:66:HIS:HB3	4:BE:68:ALA:HB2	1.92	0.51
5:BF:25:PRO:HG2	5:BF:26:ALA:H	1.75	0.51
6:BG:117:PHE:CD1	6:BG:117:PHE:C	2.88	0.51
12:BP:10:ARG:HA	12:BP:10:ARG:NE	2.25	0.51
12:BP:59:ARG:CG	12:BP:59:ARG:NH2	2.71	0.51
20:BU:19:LYS:HE3	20:BU:71:LYS:NZ	2.25	0.51
31:CA:437:U:O2'	34:CG:123:HIS:CD2	2.64	0.51
31:CA:628:G:O2'	31:CA:629:G:H5'	2.10	0.51
31:CA:941:G:C2	31:CA:942:G:H1'	2.46	0.51
31:CA:1036:G:C8	31:CA:1037:C:N3	2.79	0.51
31:CA:1102:A:C2'	31:CA:1103:C:H5'	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:134:GLU:O	32:CE:138:LEU:HG	2.10	0.51
34:CG:146:ILE:HD12	34:CG:146:ILE:N	2.26	0.51
38:CK:41:ARG:O	38:CK:41:ARG:HD2	2.11	0.51
44:CQ:26:ARG:HH11	44:CQ:43:CYS:HB3	1.76	0.51
46:CS:72:ARG:HD2	46:CS:73:LEU:HD23	1.93	0.51
52:CB:10:G:H2'	52:CB:11:U:C6	2.46	0.51
53:CD:9:G:HO2'	53:CD:10:G:H8	1.59	0.51
31:DA:353:A:H5'	31:DA:353:A:C8	2.32	0.51
31:DA:465:A:N6	31:DA:467:G:C2	2.79	0.51
31:DA:474:G:H2'	31:DA:475:G:H8	1.76	0.51
31:DA:977:A:H2'	31:DA:978:A:H5'	1.92	0.51
31:DA:1402:C:H2'	31:DA:1403:C:O4'	2.11	0.51
39:DL:23:ASN:HD22	39:DL:23:ASN:H	1.59	0.51
42:DO:111:LYS:O	42:DO:112:ASP:HB2	2.11	0.51
43:DP:13:LYS:HA	43:DP:44:ARG:HH11	1.75	0.51
43:DP:53:VAL:HG12	43:DP:57:ARG:HH21	1.76	0.51
46:DS:52:ASP:OD1	46:DS:55:ARG:HG3	2.10	0.51
48:DU:53:ARG:HH21	48:DU:59:SER:C	2.18	0.51
48:DU:84:LYS:HE2	48:DU:84:LYS:HA	1.93	0.51
49:DV:23:ASN:HA	49:DV:27:GLU:HG3	1.92	0.51
53:DD:13:C:O2'	53:DD:14:A:P	2.69	0.51
53:DD:53:G:H1	53:DD:63:C:H42	1.56	0.51
1:AA:280:C:C2	1:AA:361:G:N2	2.79	0.51
1:AA:524:U:H2'	1:AA:525:U:C6	2.46	0.51
1:AA:1427:A:H8	1:AA:1427:A:OP1	1.94	0.51
1:AA:1847:A:OP1	1:AA:1847:A:H8	1.94	0.51
1:AA:1906:G:C8	1:AA:1929:G:H2'	2.46	0.51
1:AA:2415:G:H4'	11:AO:66:GLY:HA3	1.93	0.51
1:AA:2439:A:H4'	1:AA:2440:C:O5'	2.11	0.51
1:AA:2746:U:O4	1:AA:2755:C:H4'	2.10	0.51
2:AB:52:A:N6	14:AQ:33:LYS:HG3	2.25	0.51
4:AE:61:ARG:C	4:AE:63:LEU:H	2.19	0.51
5:AF:125:LEU:HD11	5:AF:199:TRP:CD2	2.46	0.51
9:AM:12:ARG:HB3	9:AM:50:ASP:OD1	2.11	0.51
10:AN:47:ILE:HG13	10:AN:48:PRO:HD2	1.93	0.51
13:A0:10:LEU:O	13:A0:12:ARG:N	2.44	0.51
20:AU:87:LYS:CD	20:AU:92:ASN:HB3	2.38	0.51
22:A3:55:ARG:CZ	22:A3:55:ARG:HB2	2.41	0.51
23:AZ:87:PRO:O	23:AZ:88:LYS:C	2.53	0.51
1:BA:580:C:H2'	1:BA:581:C:H6	1.75	0.51
1:BA:660:G:H5'	5:BF:99:TYR:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:717:G:H2'	1:BA:718:A:O4'	2.11	0.51
1:BA:775:G:C5	1:BA:794:G:C8	2.99	0.51
1:BA:910:A:C5	12:BP:13:GLN:HG3	2.46	0.51
1:BA:946:G:N2	1:BA:972:G:H1'	2.26	0.51
1:BA:1166:C:O2	1:BA:1184:G:C2	2.64	0.51
1:BA:1578:U:O2	1:BA:1578:U:H2'	2.09	0.51
1:BA:1767:C:H2'	1:BA:1768:U:O4'	2.10	0.51
1:BA:1956:U:H2'	1:BA:1957:C:H5'	1.93	0.51
1:BA:1997:G:C2'	1:BA:1998:G:H5'	2.41	0.51
1:BA:2276:G:P	12:BP:84:GLY:HA2	2.50	0.51
1:BA:2652:C:H2'	1:BA:2653:U:O4'	2.11	0.51
1:BA:2757:A:N1	7:BH:67:LEU:HD22	2.25	0.51
1:BA:2872:G:N7	1:BA:2873:A:C2	2.78	0.51
1:BA:2872:G:N7	1:BA:2873:A:H2	2.07	0.51
15:BR:131:ALA:O	15:BR:134:GLU:HB2	2.11	0.51
21:BV:112:ARG:HE	21:BV:112:ARG:N	2.09	0.51
31:CA:163:C:H2'	31:CA:164:U:C6	2.45	0.51
31:CA:351:G:H4'	31:CA:352:C:OP1	2.11	0.51
31:CA:1028(B):C:N4	31:CA:1032(A):G:N1	2.33	0.51
34:CG:3:ARG:HG2	34:CG:118:ARG:NH1	2.26	0.51
34:CG:8:VAL:CG1	34:CG:21:LEU:HD13	2.40	0.51
34:CG:18:LYS:HD2	34:CG:31:CYS:CB	2.41	0.51
36:CI:9:VAL:HB	36:CI:87:ARG:HB2	1.92	0.51
40:CM:3:LYS:HD2	40:CM:75:ILE:O	2.10	0.51
41:CN:17:GLY:HA3	41:CN:77:MET:HE3	1.91	0.51
42:CO:50:ARG:CB	42:CO:90:LEU:HD11	2.41	0.51
47:CT:81:ARG:HB3	47:CT:83:ASP:OD1	2.11	0.51
49:CV:41:VAL:HA	49:CV:44:MET:H	1.76	0.51
31:DA:617:G:C2	31:DA:618:C:C5	2.99	0.51
31:DA:977:A:O2'	31:DA:981:U:N3	2.42	0.51
31:DA:1103:C:C4	31:DA:1104:G:N7	2.79	0.51
31:DA:1118:C:OP1	39:DL:104:ARG:NH1	2.44	0.51
31:DA:1338:G:C6	31:DA:1339:A:N1	2.79	0.51
32:DE:147:LYS:HA	32:DE:147:LYS:NZ	2.25	0.51
34:DG:107:ARG:CG	34:DG:107:ARG:NH1	2.62	0.51
34:DG:199:ASN:HB3	34:DG:202:LEU:HG	1.92	0.51
35:DH:48:ALA:HB1	35:DH:49:PRO:HD2	1.93	0.51
42:DO:75:HIS:CD2	42:DO:77:LEU:H	2.29	0.51
42:DO:110:VAL:HG23	42:DO:120:TYR:HB3	1.92	0.51
43:DP:39:ILE:HG22	43:DP:40:ASN:N	2.26	0.51
1:AA:492:A:H2'	1:AA:493:G:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:751:A:C5'	18:AS:90:ARG:HA	2.40	0.50
1:AA:1063:G:H2'	1:AA:1064:C:C6	2.45	0.50
1:AA:1209:G:H21	1:AA:1210:A:H62	1.60	0.50
1:AA:1506:C:O2	1:AA:1506:C:H2'	2.10	0.50
1:AA:1528:A:C2	1:AA:1543:A:N1	2.79	0.50
1:AA:1642:G:O2'	1:AA:1643:G:H5'	2.10	0.50
1:AA:2025:C:H2'	1:AA:2026:C:C6	2.46	0.50
1:AA:2864:G:O2'	1:AA:2865:U:H5'	2.11	0.50
3:AD:17:THR:HG21	3:AD:204:ILE:HA	1.92	0.50
4:AE:179:GLU:O	4:AE:180:ASN:HB2	2.11	0.50
8:AK:92:VAL:O	8:AK:120:ILE:HG22	2.11	0.50
16:A1:90:VAL:HG12	16:A1:91:ASP:CA	2.41	0.50
1:BA:155:C:O2	1:BA:155:C:H2'	2.11	0.50
1:BA:491:G:O6	18:BS:49:LYS:HD3	2.11	0.50
1:BA:1018:C:C2'	1:BA:1019:U:H5'	2.41	0.50
1:BA:1317:A:H2'	1:BA:1318:C:C6	2.46	0.50
1:BA:1342:A:N7	1:BA:1345:C:C4	2.79	0.50
1:BA:2135:A:N6	1:BA:2156:G:H21	2.09	0.50
1:BA:2251:G:OP1	12:BP:82:ARG:NH1	2.44	0.50
1:BA:2337:G:C2	1:BA:2338:G:C8	2.99	0.50
1:BA:2562:U:H1'	10:BN:23:ARG:HH11	1.76	0.50
1:BA:2840:C:C5'	13:B0:53:HIS:CD2	2.82	0.50
3:BD:68:LYS:HD3	3:BD:70:TRP:CZ2	2.46	0.50
4:BE:36:ARG:NH2	4:BE:88:GLY:HA3	2.18	0.50
9:BM:128:HIS:CE1	9:BM:134:ARG:HH11	2.29	0.50
12:BP:89:ASN:O	12:BP:90:VAL:HB	2.11	0.50
13:B0:79:LEU:HA	13:B0:83:ILE:HD12	1.92	0.50
18:BS:79:GLY:HA3	18:BS:100:THR:HG22	1.93	0.50
28:B6:17:LYS:HB3	28:B6:44:ARG:HH12	1.75	0.50
31:CA:303:A:H2'	31:CA:304:U:O4'	2.10	0.50
31:CA:567:G:N3	31:CA:568:G:H1'	2.26	0.50
31:CA:652:U:O4	31:CA:752:G:O2'	2.20	0.50
31:CA:885:G:H1'	31:CA:914:A:N1	2.26	0.50
32:CE:178:ARG:HH22	32:CE:196:LEU:HA	1.76	0.50
49:CV:10:PHE:CD1	49:CV:10:PHE:N	2.72	0.50
52:CB:10:G:H2'	52:CB:11:U:H6	1.76	0.50
31:DA:382:A:C6	31:DA:383:A:C6	2.99	0.50
31:DA:413:G:H2'	31:DA:428:G:N2	2.25	0.50
31:DA:448:A:P	31:DA:485:G:N2	2.75	0.50
31:DA:775:G:H2'	31:DA:776:G:O4'	2.11	0.50
31:DA:922:G:N3	31:DA:1398:A:H2	2.08	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:929:G:C6	31:DA:930:C:C4	2.99	0.50
31:DA:1084:G:OP1	31:DA:1086:U:C2	2.63	0.50
31:DA:1238:A:N7	31:DA:1301:U:O4	2.44	0.50
31:DA:1279:A:H5''	31:DA:1280:A:OP1	2.11	0.50
43:DP:23:TYR:CE1	43:DP:71:ARG:HB2	2.46	0.50
46:DS:47:ASP:O	46:DS:47:ASP:CG	2.53	0.50
1:AA:229:A:C1'	1:AA:230:U:OP2	2.57	0.50
1:AA:242:G:O5'	30:A8:3:LYS:HE3	2.10	0.50
1:AA:1056:G:O2'	1:AA:1057:A:OP2	2.28	0.50
1:AA:1535:U:H3'	1:AA:1536:A:C5'	2.38	0.50
1:AA:1680:U:H2'	1:AA:1681:G:O4'	2.11	0.50
1:AA:1864:U:H5''	1:AA:2410:G:O2'	2.09	0.50
1:AA:2213:U:O4'	23:AZ:52:ARG:NH2	2.44	0.50
1:AA:2364:C:H2'	1:AA:2365:G:O4'	2.12	0.50
1:AA:2839:G:C5	1:AA:2840:C:C4	3.00	0.50
4:AE:79:ARG:HG3	4:AE:197:ILE:CG2	2.40	0.50
5:AF:127:GLU:OE1	5:AF:128:ALA:HB2	2.11	0.50
7:AH:131:VAL:HG12	7:AH:132:ARG:H	1.76	0.50
8:AK:86:THR:HA	8:AK:123:LEU:HD12	1.93	0.50
11:AO:55:ARG:O	11:AO:55:ARG:CG	2.59	0.50
12:AP:31:ASP:O	12:AP:133:ARG:O	2.29	0.50
21:AV:81:ARG:O	21:AV:81:ARG:HG3	2.10	0.50
1:BA:888:C:H4'	1:BA:889:C:H5'	1.90	0.50
1:BA:959:A:C6	1:BA:960:A:C2	2.99	0.50
1:BA:1431:U:H2'	1:BA:1432:C:H6	1.74	0.50
1:BA:1771:C:H1'	1:BA:1786:A:C8	2.46	0.50
1:BA:1887:C:C3'	1:BA:1888:G:H5''	2.41	0.50
1:BA:2061:G:H5''	1:BA:2503:A:C2	2.46	0.50
1:BA:2130:U:O2'	1:BA:2133:G:O2'	2.29	0.50
1:BA:2168:G:C2	1:BA:2170:A:OP2	2.64	0.50
3:BD:158:ALA:HB3	3:BD:161:THR:HG21	1.93	0.50
5:BF:84:VAL:O	5:BF:85:GLY:C	2.52	0.50
6:BG:77:ILE:HG22	6:BG:80:PHE:H	1.76	0.50
7:BH:94:TYR:N	7:BH:94:TYR:CD1	2.78	0.50
14:BQ:42:ASP:C	14:BQ:44:LYS:H	2.18	0.50
19:BT:31:HIS:ND1	19:BT:32:PRO:HD2	2.27	0.50
20:BU:17:SER:HB2	20:BU:71:LYS:CD	2.40	0.50
24:BW:17:SER:CB	24:BW:21:LEU:HB2	2.42	0.50
24:BW:22:GLU:O	24:BW:25:VAL:HG22	2.11	0.50
31:CA:198:G:C6	31:CA:220:G:C2	2.99	0.50
31:CA:344:A:H5''	31:CA:345:C:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:389:A:H2'	31:CA:390:C:C5'	2.40	0.50
31:CA:857:C:H2'	31:CA:858:G:O4'	2.11	0.50
31:CA:1251:A:H4'	39:CL:12:GLU:OE1	2.11	0.50
31:CA:1503:A:O2'	31:CA:1504:G:C5'	2.59	0.50
32:CE:8:LYS:H	32:CE:8:LYS:CD	2.24	0.50
32:CE:170:GLU:O	32:CE:174:VAL:HG23	2.11	0.50
33:CF:95:THR:HG22	33:CF:96:GLY:N	2.26	0.50
34:CG:65:ARG:NH1	34:CG:65:ARG:HG2	2.26	0.50
35:CH:12:LEU:O	35:CH:13:ILE:HD12	2.10	0.50
43:CP:3:ARG:CD	43:CP:7:VAL:HG13	2.35	0.50
43:CP:97:PRO:HB3	43:CP:101:GLN:NE2	2.26	0.50
46:CS:3:LYS:O	46:CS:21:VAL:HA	2.11	0.50
31:DA:115:G:H1'	31:DA:116:A:N7	2.25	0.50
31:DA:144:G:O2'	31:DA:145:G:H5'	2.11	0.50
31:DA:169:C:H5'	31:DA:169:C:H6	1.77	0.50
31:DA:980:C:H5''	31:DA:981:U:H5	1.74	0.50
31:DA:1106:G:H5''	33:DF:172:ARG:HG2	1.93	0.50
31:DA:1306:A:N6	31:DA:1331:G:O2'	2.44	0.50
31:DA:1496:C:H2'	31:DA:1497:G:O4'	2.12	0.50
33:DF:7:PRO:O	33:DF:11:ARG:HB2	2.11	0.50
33:DF:29:TYR:HD1	44:DQ:36:PHE:CZ	2.29	0.50
34:DG:31:CYS:C	34:DG:33:MET:N	2.61	0.50
50:DW:53:LEU:HD22	50:DW:56:MET:HE3	1.93	0.50
53:DD:55:U:C4	53:DD:56:U:C5	2.98	0.50
1:AA:442:G:C6	1:AA:444:C:N4	2.79	0.50
1:AA:1062:G:OP1	1:AA:1062:G:C8	2.64	0.50
1:AA:1534:G:C6	1:AA:1538:G:N2	2.80	0.50
1:AA:2506:U:H1'	52:CB:87:A:O3'	2.11	0.50
2:AB:3:C:H2'	2:AB:4:C:H6	1.77	0.50
3:AD:27:THR:CG2	3:AD:83:GLU:HB3	2.42	0.50
6:AG:80:PHE:HA	6:AG:81:LYS:HE2	1.93	0.50
7:AH:149:ARG:HG3	7:AH:162:ILE:O	2.11	0.50
9:AM:35:ARG:HB2	9:AM:42:TRP:CZ3	2.46	0.50
11:AO:71:VAL:HG13	11:AO:72:PRO:N	2.25	0.50
15:AR:99:LEU:HB3	15:AR:101:PHE:CE1	2.46	0.50
19:AT:24:GLY:C	19:AT:82:GLN:HE22	2.19	0.50
20:AU:50:ARG:O	20:AU:53:PRO:HD2	2.11	0.50
21:AV:48:PHE:CE2	21:AV:71:VAL:HG11	2.46	0.50
28:A6:12:GLU:HB3	28:A6:23:THR:HG22	1.93	0.50
28:A6:17:LYS:C	28:A6:19:ARG:N	2.69	0.50
1:BA:27:G:N2	1:BA:512:G:O2'	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:223:A:O2'	1:BA:420:C:O2	2.29	0.50
1:BA:480:A:H2	1:BA:499:U:O2	1.95	0.50
1:BA:528:A:H3'	1:BA:528:A:H8	1.75	0.50
1:BA:773:U:H4'	3:BD:47:GLY:HA2	1.93	0.50
1:BA:803:U:H2'	1:BA:804:A:H5'	1.94	0.50
1:BA:946:G:H2'	1:BA:947:G:O5'	2.11	0.50
1:BA:1668:A:H2	1:BA:1670:C:N3	2.08	0.50
1:BA:1709:U:O2'	1:BA:2859:G:H1'	2.11	0.50
1:BA:1863:G:O2'	1:BA:2411:A:O2'	2.25	0.50
1:BA:2213:U:C4'	23:BZ:52:ARG:HH22	2.24	0.50
1:BA:2377:A:H2'	1:BA:2378:A:C8	2.46	0.50
1:BA:2713:A:H3'	1:BA:2714:G:H5'	1.94	0.50
3:BD:7:LYS:NZ	3:BD:7:LYS:HB3	2.26	0.50
7:BH:20:ALA:HB1	7:BH:21:PRO:CD	2.42	0.50
17:B2:73:SER:CA	17:B2:83:ARG:O	2.60	0.50
23:BZ:41:ARG:HG3	23:BZ:43:TYR:CZ	2.44	0.50
25:BX:6:VAL:HG12	25:BX:56:VAL:HB	1.94	0.50
31:CA:22:G:C5	31:CA:23:C:C4	2.99	0.50
31:CA:66:G:N2	31:CA:172:A:C2	2.79	0.50
31:CA:90:C:N4	31:CA:91:C:H41	2.09	0.50
31:CA:142:G:N1	31:CA:143:A:C5	2.80	0.50
31:CA:739:C:C4	31:CA:740:U:C5	3.00	0.50
31:CA:811:C:C4'	31:CA:900:A:N6	2.74	0.50
31:CA:1277:C:H1'	31:CA:1282:C:O2	2.12	0.50
38:CK:49:GLU:O	38:CK:51:VAL:HG13	2.10	0.50
40:CM:49:VAL:HG12	40:CM:61:GLU:O	2.12	0.50
45:CR:82:ILE:HG22	45:CR:83:GLU:N	2.25	0.50
50:CW:71:THR:O	50:CW:72:LEU:C	2.53	0.50
53:CD:39:A:H2'	53:CD:40:C:C5'	2.42	0.50
31:DA:1127:G:N2	31:DA:1145:C:H1'	2.26	0.50
31:DA:1145:C:O2'	31:DA:1146:A:C8	2.60	0.50
31:DA:1312:G:H1	31:DA:1325:C:N4	2.09	0.50
37:DJ:65:ALA:O	37:DJ:69:VAL:HG23	2.10	0.50
52:DB:19:G:H4'	52:DB:20:U:OP2	2.11	0.50
1:AA:508:G:O6	18:AS:9:TYR:CD2	2.64	0.50
1:AA:528:A:O2'	1:AA:529:A:H5''	2.11	0.50
1:AA:663:G:H2'	1:AA:664:C:O4'	2.12	0.50
1:AA:962:G:O2'	1:AA:963:U:H5'	2.10	0.50
1:AA:998:C:H2'	1:AA:999:U:O5'	2.12	0.50
1:AA:1085:A:H3'	1:AA:1085:A:OP2	2.11	0.50
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1662:C:H1'	1:AA:2687:U:H5''	1.94	0.50
1:AA:1858:G:H1'	1:AA:1884:A:N6	2.26	0.50
1:AA:1878:G:H2'	1:AA:1879:C:C6	2.46	0.50
1:AA:2011:U:H2'	1:AA:2012:G:H5'	1.93	0.50
1:AA:2019:A:H62	27:A5:9:LYS:NZ	2.10	0.50
1:AA:2050:C:H2'	1:AA:2051:A:C8	2.46	0.50
1:AA:2105:C:O2'	1:AA:2106:G:H5'	2.12	0.50
1:AA:2115:G:H2'	1:AA:2116:G:C8	2.43	0.50
1:AA:2124:G:C6	1:AA:2125:G:C4	3.00	0.50
1:AA:2850:A:C2	1:AA:2851:A:C4	3.00	0.50
2:AB:71:C:C2	2:AB:72:G:C8	2.99	0.50
4:AE:37:ARG:NE	4:AE:37:ARG:H	2.08	0.50
4:AE:51:PHE:O	4:AE:74:PRO:HB3	2.11	0.50
4:AE:93:VAL:HG21	4:AE:180:ASN:HA	1.93	0.50
8:AK:144:VAL:HG13	8:AK:145:VAL:HG22	1.93	0.50
9:AM:134:ARG:O	9:AM:136:GLU:N	2.45	0.50
18:AS:22:ASP:HA	18:AS:25:ARG:HH12	1.76	0.50
20:AU:81:LYS:NZ	20:AU:96:ILE:CD1	2.74	0.50
22:A3:25:ARG:HD3	22:A3:29:GLN:NE2	2.26	0.50
27:A5:45:VAL:HG12	27:A5:45:VAL:O	2.11	0.50
1:BA:616:A:C8	5:BF:176:LEU:HD11	2.46	0.50
1:BA:764:A:H5'	3:BD:210:GLY:CA	2.41	0.50
1:BA:892:G:N7	1:BA:893:C:C4	2.80	0.50
1:BA:945:A:N7	1:BA:2448:A:N1	2.59	0.50
1:BA:1142(A):A:N7	1:BA:1144:G:C5	2.79	0.50
1:BA:1210:A:H5'	1:BA:1212:G:O4'	2.11	0.50
1:BA:1291:C:H2'	1:BA:1292:U:C6	2.47	0.50
1:BA:1614:A:H61	18:BS:88:ARG:H	1.59	0.50
1:BA:2114:A:N1	1:BA:2170:A:N6	2.48	0.50
1:BA:2211:G:C4'	1:BA:2212:A:OP2	2.59	0.50
1:BA:2404:C:O3'	11:BO:77:ARG:NH2	2.45	0.50
1:BA:2450:A:C2	1:BA:2451:A:C4	2.99	0.50
1:BA:2500:U:H5''	1:BA:2501:C:OP2	2.11	0.50
1:BA:2748:A:H62	1:BA:2754:U:H3	1.59	0.50
1:BA:2820:A:C6	13:B0:4:LEU:HD11	2.47	0.50
3:BD:96:HIS:ND1	3:BD:102:LYS:HD3	2.26	0.50
5:BF:25:PRO:CG	5:BF:26:ALA:N	2.75	0.50
6:BG:72:ARG:HD2	6:BG:85:GLY:O	2.11	0.50
8:BK:11:ASN:O	8:BK:12:LEU:HD12	2.11	0.50
8:BK:101:LEU:HB2	8:BK:105:HIS:HB2	1.94	0.50
9:BM:35:ARG:HB3	9:BM:42:TRP:CZ3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:120:ALA:CB	11:BO:138:LEU:HB3	2.40	0.50
12:BP:33:GLY:HA2	12:BP:105:GLU:HA	1.92	0.50
21:BV:115:GLY:H	21:BV:177:PRO:CG	2.25	0.50
24:BW:22:GLU:O	24:BW:26:ARG:HG3	2.12	0.50
26:B4:59:PHE:CE1	49:DV:68:GLY:HA3	2.44	0.50
30:B8:61:LEU:O	30:B8:62:LEU:C	2.53	0.50
31:CA:926:G:C6	31:CA:1505:G:C5	2.99	0.50
31:CA:1009:G:C2	31:CA:1010:G:C8	2.99	0.50
31:CA:1138:G:N1	31:CA:1140:C:C2	2.79	0.50
32:CE:17:PHE:CD2	32:CE:44:LEU:HD11	2.47	0.50
32:CE:162:ILE:O	32:CE:185:ILE:HG23	2.11	0.50
41:CN:15:ALA:CB	41:CN:78:GLN:HE21	2.24	0.50
41:CN:41:THR:HG21	41:CN:71:LYS:HB2	1.93	0.50
52:CB:2:C:H2'	52:CB:3:C:C6	2.46	0.50
53:CD:71:G:O2'	53:CD:72:C:H5'	2.10	0.50
31:DA:457:C:H2'	31:DA:458:C:H6	1.77	0.50
31:DA:593:G:C2	31:DA:647:C:O2	2.65	0.50
31:DA:1053:G:O6	31:DA:1199:U:H2'	2.12	0.50
31:DA:1060:C:O2'	31:DA:1061:G:H5'	2.11	0.50
31:DA:1205:U:H6	31:DA:1205:U:H3'	1.76	0.50
31:DA:1328:C:O2'	43:DP:29:ARG:NE	2.40	0.50
31:DA:1435:G:H2'	31:DA:1436:U:H6	1.74	0.50
32:DE:24:TRP:C	32:DE:24:TRP:CD1	2.88	0.50
33:DF:16:ARG:HB2	33:DF:16:ARG:CZ	2.40	0.50
34:DG:127:THR:HB	34:DG:131:ARG:O	2.10	0.50
39:DL:9:ARG:HA	39:DL:13:ALA:O	2.11	0.50
39:DL:111:ARG:HD2	44:DQ:61:TRP:OXT	2.11	0.50
49:DV:28:LYS:CE	49:DV:29:ARG:H	2.24	0.50
53:DD:50:G:N2	53:DD:67:C:O2	2.45	0.50
1:AA:494:G:O2'	1:AA:495:G:H5'	2.11	0.50
1:AA:552:G:C6	1:AA:553:U:C4	3.00	0.50
1:AA:701:G:N2	1:AA:732:C:C2	2.79	0.50
1:AA:729:G:O2'	1:AA:763:G:H4'	2.11	0.50
1:AA:734:A:O2'	1:AA:1635:G:H5'	2.11	0.50
1:AA:1101:U:O2'	1:AA:1102:C:H5'	2.12	0.50
1:AA:1387:C:C2	1:AA:1388:G:C8	3.00	0.50
1:AA:1735:C:C2'	1:AA:1741:C:H5'	2.41	0.50
1:AA:2124:G:H1	1:AA:2174:C:H42	1.59	0.50
3:AD:43:ARG:HD2	3:AD:44:ASN:CG	2.35	0.50
4:AE:27:LEU:O	4:AE:27:LEU:HD23	2.12	0.50
4:AE:38:THR:C	4:AE:40:GLU:H	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:181:LEU:HD21	15:AR:7:ILE:HG23	1.93	0.50
6:AG:62:LEU:HD23	6:AG:148:MET:HE1	1.94	0.50
8:AK:140:LEU:HD23	8:AK:140:LEU:H	1.75	0.50
9:AM:96:GLU:H	9:AM:98:VAL:HG12	1.75	0.50
12:AP:34:LEU:HD11	12:AP:129:THR:CB	2.39	0.50
15:AR:74:ARG:HD3	15:AR:76:PHE:HZ	1.77	0.50
20:AU:78:ALA:HB3	20:AU:81:LYS:NZ	2.24	0.50
27:A5:40:LYS:CG	27:A5:47:PRO:HD2	2.36	0.50
1:BA:12:U:O2	1:BA:12:U:C2'	2.58	0.50
1:BA:405:U:H2'	1:BA:405:U:O2	2.10	0.50
1:BA:468:G:N7	29:B7:39:ARG:NH2	2.52	0.50
1:BA:627:A:N7	11:BO:84:ASN:ND2	2.59	0.50
1:BA:886:C:C2	1:BA:890:A:N1	2.80	0.50
1:BA:1491:G:H5'	3:BD:99:ASP:OD2	2.12	0.50
1:BA:1504:C:O2'	1:BA:1505:C:H5'	2.11	0.50
1:BA:1805:U:O2	3:BD:50:THR:HB	2.11	0.50
1:BA:2809:A:N6	1:BA:2891:G:H2'	2.26	0.50
2:BB:79:C:H2'	2:BB:80:U:O4'	2.11	0.50
4:BE:98:PRO:HD3	4:BE:175:VAL:HG13	1.93	0.50
11:BO:65:ARG:O	11:BO:66:GLY:O	2.30	0.50
11:BO:79:ARG:HB3	11:BO:110:TYR:HD1	1.76	0.50
12:BP:54:MET:O	12:BP:56:ARG:N	2.45	0.50
31:CA:8:A:H4'	31:CA:9:G:OP1	2.11	0.50
31:CA:50:A:H4'	31:CA:51:A:O5'	2.12	0.50
31:CA:109:A:H2'	31:CA:326:G:N2	2.26	0.50
31:CA:413:G:H2'	31:CA:428:G:N2	2.27	0.50
31:CA:687:A:H1'	31:CA:688:G:OP2	2.11	0.50
31:CA:1164:G:C5	31:CA:1165:C:C5	3.00	0.50
33:CF:81:GLY:HA2	33:CF:84:ILE:HG22	1.92	0.50
35:CH:84:PHE:HB3	35:CH:134:ALA:HB2	1.93	0.50
38:CK:27:PRO:HG3	38:CK:58:TYR:CE2	2.42	0.50
43:CP:67:GLU:OE2	43:CP:68:GLY:N	2.31	0.50
31:DA:309:G:H1'	31:DA:608:A:C2	2.47	0.50
31:DA:1126:U:C4	31:DA:1281:U:C6	3.00	0.50
31:DA:1126:U:C1'	31:DA:1127:G:OP2	2.60	0.50
32:DE:100:GLY:O	32:DE:104:ASN:N	2.41	0.50
34:DG:21:LEU:O	34:DG:113:SER:HB2	2.11	0.50
34:DG:161:ASN:O	34:DG:165:MET:HG2	2.11	0.50
42:DO:40:VAL:HG21	42:DO:78:GLN:CA	2.41	0.50
43:DP:48:LEU:HD23	43:DP:48:LEU:O	2.11	0.50
45:DR:70:LEU:HG	45:DR:78:TYR:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DC:1:C:H3'	53:DC:1:C:C6	2.45	0.50
53:DC:41:C:H2'	53:DC:42:C:H6	1.77	0.50
53:DD:18:C:O2	53:DD:18:C:C2'	2.59	0.50
53:DD:52:C:O2	53:DD:65:G:N2	2.45	0.50
1:AA:270(G):C:C2	1:AA:270(H):C:C6	3.00	0.50
1:AA:572:A:H5''	1:AA:573:G:OP2	2.11	0.50
1:AA:881:G:H3'	1:AA:882:G:H4'	1.90	0.50
1:AA:1026:U:C1'	1:AA:1027:A:O5'	2.46	0.50
1:AA:2199:A:H5'	23:AZ:50:ARG:NH2	2.22	0.50
2:AB:37:C:C3'	2:AB:38:C:H5'	2.40	0.50
3:AD:166:GLN:CA	3:AD:166:GLN:NE2	2.71	0.50
5:AF:54:ARG:NH2	5:AF:80:ALA:HB2	2.27	0.50
12:AP:18:LYS:O	12:AP:19:GLY:O	2.30	0.50
17:A2:4:ILE:HB	17:A2:40:LEU:HB2	1.94	0.50
17:A2:44:LYS:HD2	17:A2:45:THR:N	2.25	0.50
1:BA:33:U:H4'	1:BA:34:C:OP1	2.11	0.50
1:BA:581:C:H2'	1:BA:582:G:H8	1.77	0.50
1:BA:1057:A:N1	1:BA:1081:U:C4	2.79	0.50
1:BA:1138:G:H5''	1:BA:1139:G:OP2	2.12	0.50
1:BA:1716:U:H2'	1:BA:1717:G:H8	1.75	0.50
1:BA:1945:G:H2'	1:BA:1946:U:H6	1.76	0.50
1:BA:2262:U:O2'	1:BA:2263:C:H5'	2.11	0.50
1:BA:2500:U:H2'	1:BA:2504:U:H5	1.77	0.50
1:BA:2740:A:N6	1:BA:2764:A:C8	2.80	0.50
1:BA:2748:A:N7	1:BA:2754:U:C4	2.78	0.50
1:BA:2804:C:O2'	1:BA:2805:G:H5'	2.12	0.50
3:BD:52:ARG:HB2	3:BD:53:PHE:CD2	2.46	0.50
3:BD:127:VAL:HA	3:BD:193:VAL:HG23	1.94	0.50
3:BD:133:LEU:HD13	3:BD:173:VAL:CG2	2.42	0.50
4:BE:76:ARG:HG2	4:BE:195:LEU:HD13	1.94	0.50
7:BH:35:VAL:HG11	7:BH:71:LEU:HG	1.94	0.50
7:BH:125:VAL:HG13	7:BH:126:PRO:HD2	1.94	0.50
13:B0:107:ASP:OD2	13:B0:107:ASP:C	2.55	0.50
21:BV:6:LYS:HE3	21:BV:43:GLU:CD	2.37	0.50
24:BW:29:LYS:HG2	24:BW:57:ILE:HD13	1.94	0.50
27:B5:40:LYS:HE3	27:B5:46:CYS:HB2	1.91	0.50
31:CA:976:G:H5'	31:CA:1358:U:O2'	2.12	0.50
31:CA:1126:U:H5	31:CA:1127:G:N3	2.10	0.50
31:CA:1206:G:C6	31:CA:1207:G:C5	2.99	0.50
31:CA:1399:C:C2	31:CA:1401:G:C5	3.00	0.50
33:CF:34:LEU:HD22	33:CF:38:ARG:HH11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:50:ALA:O	33:CF:70:VAL:HG13	2.12	0.50
33:CF:195:VAL:C	33:CF:196:LEU:HD23	2.37	0.50
40:CM:35:SER:OG	40:CM:73:ASP:HB2	2.12	0.50
41:CN:91:ARG:CG	41:CN:91:ARG:NH1	2.71	0.50
43:CP:3:ARG:HH11	43:CP:7:VAL:HG22	1.75	0.50
50:CW:92:LEU:O	50:CW:96:GLY:HA3	2.11	0.50
53:CC:19:G:H4'	53:CC:20:G:OP1	2.12	0.50
53:CD:50:G:N2	53:CD:67:C:H1'	2.27	0.50
31:DA:424:G:H2'	31:DA:425:G:C8	2.47	0.50
31:DA:976:G:H22	31:DA:1362:C:H2'	1.76	0.50
31:DA:1015:A:N6	31:DA:1016:A:C6	2.80	0.50
31:DA:1216:G:O2'	31:DA:1217:C:H5'	2.11	0.50
31:DA:1238:A:H62	31:DA:1301:U:H3	1.59	0.50
32:DE:25:ASN:OD1	32:DE:25:ASN:C	2.54	0.50
39:DL:5:TYR:CG	39:DL:6:GLY:N	2.80	0.50
45:DR:79:ARG:O	45:DR:82:ILE:HD13	2.12	0.50
46:DS:21:VAL:HG22	46:DS:33:ILE:CG1	2.41	0.50
1:AA:623:G:H2'	1:AA:624:C:C6	2.47	0.50
1:AA:922:U:H2'	1:AA:923:C:C6	2.46	0.50
1:AA:988:A:C6	25:AX:13:ILE:HG21	2.46	0.50
1:AA:1012:U:O4	9:AM:25:ARG:HA	2.12	0.50
1:AA:1593:G:H2'	1:AA:1594:G:H8	1.75	0.50
1:AA:2404:C:O3'	11:AO:77:ARG:NH2	2.43	0.50
6:AG:55:LYS:O	6:AG:58:GLN:HB3	2.12	0.50
9:AM:24:GLY:HA2	9:AM:27:ALA:HB3	1.93	0.50
24:AW:32:LEU:HD22	24:AW:36:ARG:NH1	2.26	0.50
1:BA:186:G:H2'	1:BA:187:G:H8	1.77	0.50
1:BA:864:G:O6	1:BA:865:C:N4	2.44	0.50
1:BA:867:C:C5	1:BA:868:U:C5	3.00	0.50
1:BA:979:G:H3'	1:BA:980:A:C5'	2.41	0.50
1:BA:1568:G:P	3:BD:63:ARG:HH22	2.34	0.50
1:BA:1735:C:C2'	1:BA:1741:C:H5'	2.41	0.50
1:BA:1839:G:H2'	1:BA:1839:G:N3	2.26	0.50
3:BD:12:SER:O	3:BD:16:MET:HB2	2.12	0.50
4:BE:89:ASP:N	4:BE:89:ASP:OD1	2.45	0.50
6:BG:4:ASP:OD2	6:BG:9:ARG:NH1	2.39	0.50
9:BM:90:MET:HE2	9:BM:90:MET:HA	1.94	0.50
12:BP:25:ASP:O	12:BP:25:ASP:OD1	2.30	0.50
12:BP:33:GLY:O	12:BP:132:VAL:N	2.36	0.50
12:BP:78:PRO:O	12:BP:79:LEU:O	2.30	0.50
21:BV:93:ASP:HA	21:BV:130:PRO:HG2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BW:15:LYS:HA	24:BW:67:LYS:NZ	2.25	0.50
31:CA:14:U:H2'	31:CA:16:A:OP2	2.12	0.50
31:CA:235:C:C5'	47:CT:70:ARG:HG2	2.40	0.50
31:CA:940:C:H2'	31:CA:941:G:H8	1.76	0.50
31:CA:992:U:H3'	31:CA:992:U:OP1	2.12	0.50
31:CA:1011:G:N2	31:CA:1019:C:O2	2.45	0.50
31:CA:1298:C:H4'	31:CA:1299:A:N9	2.27	0.50
31:CA:1333:A:H2'	31:CA:1334:G:O4'	2.12	0.50
35:CH:71:LEU:HD11	35:CH:114:GLY:HA3	1.94	0.50
50:CW:16:HIS:O	50:CW:19:SER:HB2	2.10	0.50
52:CB:23:A:HO2'	52:CB:24:C:P	2.30	0.50
31:DA:264:U:O2'	47:DT:63:ARG:HD3	2.11	0.50
31:DA:543:C:C2'	31:DA:544:G:H5'	2.41	0.50
31:DA:991:U:O2	31:DA:993:G:H8	1.94	0.50
31:DA:1000:A:O2'	31:DA:1001:G:H5'	2.11	0.50
31:DA:1034:G:H2'	31:DA:1035:A:C8	2.47	0.50
31:DA:1365:G:H2'	31:DA:1366:C:O4'	2.11	0.50
32:DE:185:ILE:O	32:DE:185:ILE:HG12	2.10	0.50
52:DB:50:A:C2	52:DB:54:G:C6	3.00	0.50
1:AA:389:G:H22	11:AO:72:PRO:HD3	1.76	0.50
1:AA:1079:C:H3'	1:AA:1080:A:H8	1.77	0.50
1:AA:1535:U:C4	1:AA:1537:C:H1'	2.47	0.50
1:AA:2080:G:H5'	23:AZ:19:GLN:HG2	1.93	0.50
1:AA:2473:U:C3'	1:AA:2474:C:H5''	2.41	0.50
1:AA:2507:C:C2	1:AA:2508:G:C8	2.99	0.50
1:AA:2689:U:P	1:AA:2719:G:H22	2.35	0.50
3:AD:19:ALA:HB3	3:AD:21:PHE:CZ	2.46	0.50
3:AD:35:LYS:HZ2	3:AD:65:ILE:HA	1.73	0.50
6:AG:82:LEU:O	6:AG:83:ARG:O	2.30	0.50
8:AK:9:LEU:O	8:AK:10:GLU:HB3	2.11	0.50
8:AK:114:LEU:HB3	8:AK:116:LEU:HB3	1.93	0.50
10:AN:80:ASP:OD2	15:AR:71:GLY:HA3	2.10	0.50
10:AN:104:ARG:HD3	15:AR:36:GLU:OE2	2.12	0.50
11:AO:106:LEU:O	11:AO:106:LEU:HD22	2.12	0.50
15:AR:94:ALA:O	15:AR:95:ARG:CB	2.59	0.50
16:A1:91:ASP:OD2	16:A1:96:ALA:HB2	2.11	0.50
17:A2:91:TYR:C	17:A2:91:TYR:CD1	2.90	0.50
27:A5:4:HIS:O	27:A5:5:PRO:C	2.54	0.50
30:A8:42:ARG:HH11	30:A8:42:ARG:HG2	1.77	0.50
1:BA:661:C:C1'	11:BO:12:ALA:O	2.58	0.50
1:BA:708:C:O2	1:BA:708:C:H2'	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1021:A:H62	1:BA:1141:U:H3	1.60	0.50
1:BA:1044:G:O3'	1:BA:1045:A:H4'	2.12	0.50
1:BA:1065:U:O2	1:BA:1073:A:N1	2.45	0.50
1:BA:1342:A:C2	1:BA:1397:U:N1	2.80	0.50
1:BA:1401:G:H2'	1:BA:1402:C:H6	1.76	0.50
1:BA:1491:G:O2'	3:BD:101:GLU:HB2	2.12	0.50
1:BA:1686:C:C2'	1:BA:1687:G:H5'	2.42	0.50
1:BA:2116:G:P	1:BA:2165:G:H22	2.33	0.50
1:BA:2329:G:H2'	1:BA:2330:G:C8	2.47	0.50
2:BB:43:C:H4'	6:BG:66:GLN:NE2	2.27	0.50
8:BK:31:LEU:HD21	8:BK:38:LEU:HD11	1.92	0.50
14:BQ:107:GLU:H	14:BQ:110:LEU:HG	1.77	0.50
15:BR:13:ARG:HD3	15:BR:13:ARG:N	2.21	0.50
18:BS:57:ASN:O	18:BS:61:ASN:HB2	2.12	0.50
22:B3:50:ASN:C	22:B3:62:LEU:HD12	2.36	0.50
25:BX:10:LYS:NZ	25:BX:15:TYR:OH	2.42	0.50
31:CA:75:C:H2'	31:CA:76:G:O4'	2.12	0.50
31:CA:804:U:H5''	31:CA:805:C:OP2	2.11	0.50
31:CA:1159:U:N3	31:CA:1182:G:C6	2.79	0.50
31:CA:1161:C:C2	31:CA:1177:G:N2	2.80	0.50
31:CA:1239:A:H62	31:CA:1299:A:N6	2.05	0.50
31:CA:1418:A:C2	31:CA:1483:A:C2	3.00	0.50
32:CE:165:VAL:CG2	32:CE:166:ASP:N	2.73	0.50
32:CE:174:VAL:HG13	32:CE:184:VAL:HG11	1.93	0.50
34:CG:72:GLU:O	34:CG:73:ARG:C	2.54	0.50
37:CJ:15:ASP:OD2	37:CJ:16:LEU:N	2.44	0.50
47:CT:45:HIS:CE1	47:CT:47:PRO:HG3	2.46	0.50
52:CB:44:G:C6	52:CB:45:U:N3	2.80	0.50
31:DA:590:C:O2'	31:DA:591:U:H5'	2.12	0.50
31:DA:1178:G:C5'	39:DL:93:ARG:HH21	2.25	0.50
31:DA:1279:A:H5''	31:DA:1280:A:P	2.52	0.50
31:DA:1382:C:H1'	37:DJ:79:ARG:HH11	1.75	0.50
32:DE:8:LYS:HD2	32:DE:11:LEU:HD22	1.94	0.50
34:DG:178:VAL:C	34:DG:180:GLY:N	2.70	0.50
35:DH:19:MET:CE	35:DH:24:ARG:HB3	2.41	0.50
37:DJ:122:HIS:O	37:DJ:125:MET:HB2	2.12	0.50
42:DO:27:LEU:HD23	42:DO:33:ARG:CG	2.39	0.50
42:DO:47:LYS:CB	42:DO:48:PRO:CD	2.90	0.50
47:DT:45:HIS:CD2	47:DT:47:PRO:HD3	2.46	0.50
52:DB:9:G:H5'	52:DB:11:U:OP2	2.12	0.50
1:AA:116:C:H2'	1:AA:117:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:248:G:H5''	1:AA:386:G:N2	2.26	0.50
1:AA:394:A:O2'	1:AA:395:U:H5'	2.12	0.50
1:AA:882:G:H1	1:AA:894:C:N4	2.10	0.50
1:AA:900:A:H2'	1:AA:900:A:N3	2.27	0.50
1:AA:943:U:OP2	11:AO:36:LYS:CG	2.60	0.50
1:AA:1083:U:H6	1:AA:1083:U:H3'	1.76	0.50
1:AA:1141:U:OP2	9:AM:63:THR:HG21	2.12	0.50
1:AA:1179:C:C3'	1:AA:1180:C:H5''	2.42	0.50
1:AA:1332:G:H21	1:AA:1610:A:H8	1.59	0.50
1:AA:1513:C:C4	1:AA:1514:U:C5	2.99	0.50
1:AA:2690:C:H5''	1:AA:2872:G:N2	2.25	0.50
1:AA:2723:C:OP1	13:A0:3:HIS:CD2	2.50	0.50
6:AG:70:VAL:CG2	6:AG:87:PRO:HB3	2.41	0.50
7:AH:154:PRO:O	7:AH:155:SER:HB2	2.11	0.50
8:AK:7:GLU:HG3	8:AK:8:PRO:HD2	1.94	0.50
8:AK:54:GLN:O	8:AK:58:LEU:N	2.44	0.50
11:AO:71:VAL:H	11:AO:72:PRO:HD3	1.77	0.50
11:AO:85:LEU:O	11:AO:88:LEU:HD23	2.12	0.50
11:AO:94:GLU:OE2	11:AO:94:GLU:HA	2.11	0.50
12:AP:77:LYS:HD3	12:AP:81:VAL:HG21	1.94	0.50
15:AR:41:ARG:NH1	15:AR:43:GLN:HB2	2.27	0.50
16:A1:44:ASN:HD21	17:A2:75:PHE:H	1.60	0.50
18:AS:86:LEU:HD12	18:AS:87:PRO:HD2	1.93	0.50
23:AZ:83:GLU:C	23:AZ:85:LEU:N	2.70	0.50
28:A6:46:HIS:O	28:A6:47:THR:OG1	2.30	0.50
1:BA:90:U:C2'	1:BA:90:U:O2	2.59	0.50
1:BA:545:G:N2	1:BA:548:A:H62	2.01	0.50
1:BA:563:G:C6	1:BA:564:C:C4	3.00	0.50
1:BA:756:C:C2'	1:BA:757:U:H5'	2.42	0.50
1:BA:777:A:C2'	1:BA:778:G:H5'	2.42	0.50
1:BA:1300:U:H5''	1:BA:1301:A:H5''	1.93	0.50
1:BA:1419:A:N6	1:BA:1421:G:C2	2.80	0.50
1:BA:1899:G:C2'	1:BA:1900:A:OP2	2.59	0.50
1:BA:2335:A:O2'	1:BA:2336:A:P	2.70	0.50
2:BB:28:C:OP1	14:BQ:36:TYR:OH	2.27	0.50
7:BH:9:ILE:HG22	7:BH:51:ARG:HA	1.94	0.50
7:BH:26:VAL:HG13	7:BH:27:LYS:N	2.26	0.50
11:BO:50:ARG:HG3	30:B8:59:LYS:CD	2.35	0.50
12:BP:19:GLY:CA	12:BP:98:LYS:NZ	2.75	0.50
12:BP:21:THR:O	12:BP:21:THR:HG23	2.09	0.50
16:B1:14:HIS:CE1	16:B1:32:PHE:CD1	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:B1:90:VAL:O	16:B1:92:ARG:HB3	2.12	0.50
17:B2:79:VAL:O	17:B2:80:GLN:O	2.30	0.50
31:CA:328:C:H4'	31:CA:329:A:H5'	1.94	0.50
31:CA:411:A:H62	31:CA:413:G:N2	2.05	0.50
31:CA:458:C:H2'	31:CA:464:G:C8	2.47	0.50
31:CA:652:U:H1'	31:CA:653:A:H2	1.74	0.50
31:CA:679:C:H2'	31:CA:680:C:C6	2.47	0.50
31:CA:1091:U:O2	31:CA:1093:A:H8	1.95	0.50
31:CA:1157:A:H1'	31:CA:1158:C:N3	2.27	0.50
33:CF:94:LEU:C	33:CF:94:LEU:HD12	2.37	0.50
37:CJ:69:VAL:O	37:CJ:69:VAL:CG1	2.60	0.50
31:DA:186(E):C:C2	31:DA:191(C):G:N2	2.80	0.50
31:DA:265:G:H5'	47:DT:64:PRO:O	2.12	0.50
31:DA:316:G:C2	31:DA:338:A:C2	3.00	0.50
31:DA:947:G:H2'	31:DA:948:C:C6	2.47	0.50
31:DA:1286:A:H2'	31:DA:1287:A:O5'	2.12	0.50
33:DF:188:LEU:HD12	33:DF:195:VAL:HG11	1.94	0.50
36:DI:35:ALA:CB	36:DI:67:MET:HB3	2.42	0.50
42:DO:8:ASN:HD22	47:DT:34:LYS:NZ	2.09	0.50
43:DP:32:GLU:O	43:DP:35:GLU:HB3	2.12	0.50
53:DD:6:G:H1	53:DD:68:C:H42	1.60	0.50
1:AA:239:U:H2'	1:AA:240:G:O4'	2.12	0.49
1:AA:598:G:H1'	11:AO:12:ALA:CB	2.41	0.49
1:AA:783:A:C2'	1:AA:785:G:OP1	2.60	0.49
1:AA:863:A:H2'	1:AA:864:G:H8	1.77	0.49
1:AA:1218:C:H42	1:AA:1231:G:H1	1.59	0.49
1:AA:1931:U:O2	1:AA:1931:U:O4'	2.27	0.49
1:AA:2166:G:C2'	1:AA:2167:U:OP1	2.60	0.49
1:AA:2248:C:C2'	1:AA:2249:U:H5'	2.42	0.49
1:AA:2275:C:H5'	1:AA:2275:C:C6	2.46	0.49
1:AA:2537:U:H2'	1:AA:2538:C:H6	1.73	0.49
5:AF:152:GLU:HB2	5:AF:190:GLU:HB2	1.93	0.49
7:AH:4:ILE:C	7:AH:6:ARG:N	2.69	0.49
8:AK:110:ASP:HB3	8:AK:112:LYS:O	2.12	0.49
9:AM:18:ALA:HA	9:AM:21:LYS:HG3	1.94	0.49
17:A2:34:GLU:O	17:A2:34:GLU:HG3	2.12	0.49
17:A2:35:LEU:C	17:A2:37:VAL:N	2.69	0.49
20:AU:42:VAL:CB	20:AU:67:LEU:HD11	2.42	0.49
26:A4:13:ARG:HB2	26:A4:30:GLU:HA	1.94	0.49
1:BA:686:G:N2	1:BA:788:A:H61	2.09	0.49
1:BA:1113:U:H2'	1:BA:1114:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1171:G:O2'	1:BA:1173:G:O5'	2.28	0.49
1:BA:1353:A:H4'	3:BD:38:LYS:HE3	1.94	0.49
1:BA:1359:A:N7	1:BA:1372:U:O4	2.45	0.49
1:BA:1416:G:H2'	1:BA:1417:C:C5	2.47	0.49
1:BA:1419:A:N6	1:BA:1421:G:N3	2.60	0.49
1:BA:1458:C:H4'	1:BA:1459:G:O5'	2.12	0.49
1:BA:1833:U:H2'	1:BA:1834:U:H6	1.77	0.49
1:BA:2648:C:H2'	1:BA:2649:U:C6	2.47	0.49
1:BA:2689:U:H5''	1:BA:2690:C:H5'	1.94	0.49
2:BB:70:C:H42	2:BB:106:G:H1	1.59	0.49
5:BF:24:LEU:HD12	5:BF:25:PRO:CD	2.34	0.49
7:BH:136:ILE:O	7:BH:137:ASP:HB2	2.11	0.49
11:BO:48:PRO:C	11:BO:50:ARG:N	2.70	0.49
12:BP:34:LEU:CB	12:BP:118:LEU:HD22	2.41	0.49
14:BQ:89:ARG:O	14:BQ:90:GLY:C	2.55	0.49
22:B3:38:VAL:CG1	22:B3:40:GLN:HG2	2.36	0.49
30:B8:48:PHE:CD1	30:B8:48:PHE:N	2.80	0.49
31:CA:352:C:O2'	31:CA:354:G:OP1	2.23	0.49
31:CA:1106:G:C5	31:CA:1107:C:C5	3.00	0.49
31:CA:1288:A:O2'	31:CA:1289:A:H5'	2.11	0.49
31:CA:1401:G:C2	31:CA:1402:C:H1'	2.47	0.49
31:CA:1406:U:C2'	31:CA:1407:C:H5'	2.42	0.49
32:CE:8:LYS:HE3	32:CE:11:LEU:CB	2.27	0.49
37:CJ:74:GLU:HG2	37:CJ:91:VAL:HG22	1.94	0.49
42:CO:44:LYS:O	42:CO:44:LYS:CG	2.57	0.49
43:CP:84:ILE:HG12	49:CV:66:MET:HG2	1.91	0.49
48:CU:32:ARG:NH1	48:CU:65:ILE:HD12	2.27	0.49
31:DA:328:C:O2	31:DA:328:C:C2'	2.48	0.49
31:DA:402:G:C6	31:DA:403:C:C4	3.00	0.49
31:DA:581:G:OP1	45:DR:61:GLY:HA3	2.12	0.49
31:DA:596:C:O2	31:DA:596:C:C2'	2.60	0.49
31:DA:652:U:C5	31:DA:752:G:N3	2.80	0.49
31:DA:978:A:O2'	31:DA:1322:C:C4	2.65	0.49
31:DA:1162:C:C2	31:DA:1175:G:C2	2.99	0.49
31:DA:1442:G:N7	31:DA:1446:A:N1	2.59	0.49
32:DE:21:ARG:HB3	32:DE:39:ILE:HA	1.92	0.49
34:DG:185:PHE:CE2	34:DG:187:ARG:O	2.65	0.49
34:DG:191:ARG:NH1	34:DG:200:GLU:OE1	2.45	0.49
1:AA:861:A:C2	1:AA:917:A:C5	3.01	0.49
1:AA:988:A:H4'	1:AA:1155:A:N1	2.28	0.49
1:AA:1173:G:H4'	1:AA:1174:A:N1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1535:U:OP2	1:AA:1537:C:N4	2.45	0.49
1:AA:1578:U:H2'	1:AA:1579:A:H5'	1.94	0.49
1:AA:1735:C:O2'	1:AA:1741:C:H5'	2.13	0.49
1:AA:1889:A:H2'	1:AA:1890:A:O4'	2.13	0.49
1:AA:2127:G:H5'	1:AA:2128:C:OP2	2.11	0.49
1:AA:2488:A:O2'	1:AA:2489:G:H5'	2.12	0.49
2:AB:94:C:H2'	2:AB:95:U:H6	1.76	0.49
3:AD:31:LYS:HE3	3:AD:102:LYS:HD3	1.94	0.49
3:AD:244:ARG:HB2	3:AD:245:PRO:CD	2.42	0.49
4:AE:81:ILE:HG22	4:AE:84:PHE:HB2	1.93	0.49
6:AG:44:GLY:C	6:AG:46:ALA:N	2.67	0.49
6:AG:76:SER:OG	6:AG:83:ARG:HA	2.12	0.49
6:AG:82:LEU:CD2	6:AG:86:MET:HE3	2.42	0.49
7:AH:105:LEU:HD23	7:AH:105:LEU:N	2.27	0.49
8:AK:140:LEU:N	8:AK:140:LEU:HD23	2.27	0.49
9:AM:133:GLN:C	9:AM:134:ARG:HG2	2.37	0.49
12:AP:4:PRO:HG3	12:AP:71:ASP:HA	1.95	0.49
12:AP:89:ASN:O	12:AP:90:VAL:O	2.30	0.49
15:AR:1:MET:O	15:AR:2:ASN:C	2.53	0.49
15:AR:89:VAL:O	15:AR:89:VAL:HG23	2.12	0.49
15:AR:107:ASP:OD1	15:AR:107:ASP:N	2.45	0.49
23:AZ:87:PRO:O	23:AZ:91:LYS:N	2.43	0.49
1:BA:154:G:H3'	1:BA:155:C:H6	1.77	0.49
1:BA:270(L):U:O2	8:BK:50:ARG:HD2	2.12	0.49
1:BA:1651:G:OP1	13:B0:40:LYS:HE2	2.11	0.49
1:BA:2067:G:O2'	1:BA:2069:G:H5''	2.13	0.49
1:BA:2090:G:N2	23:BZ:47:GLN:HE22	2.09	0.49
1:BA:2211:G:H3'	1:BA:2212:A:C2	2.47	0.49
2:BB:4:C:H2'	2:BB:5:C:O4'	2.12	0.49
4:BE:120:TRP:O	4:BE:121:ASN:HB2	2.12	0.49
4:BE:128:SER:O	4:BE:129:HIS:HB2	2.11	0.49
4:BE:203:LYS:O	4:BE:204:ALA:CB	2.59	0.49
5:BF:140:LEU:HD22	5:BF:170:LEU:HD21	1.94	0.49
8:BK:7:GLU:CA	8:BK:15:VAL:HG22	2.35	0.49
8:BK:76:THR:HA	8:BK:105:HIS:HE1	1.76	0.49
17:B2:76:LYS:CB	17:B2:80:GLN:CG	2.90	0.49
19:BT:51:VAL:HG12	19:BT:51:VAL:O	2.11	0.49
20:BU:87:LYS:O	20:BU:88:LYS:HD3	2.12	0.49
24:BW:25:VAL:HG12	24:BW:60:LEU:HD23	1.95	0.49
25:BX:13:ILE:HD12	25:BX:13:ILE:N	2.27	0.49
26:B4:16:CYS:C	26:B4:18:CYS:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B4:26:SER:OG	26:B4:27:THR:N	2.44	0.49
27:B5:4:HIS:O	27:B5:5:PRO:O	2.30	0.49
31:CA:269:C:H2'	31:CA:270:A:C8	2.47	0.49
31:CA:376:G:O3'	46:CS:5:ARG:NH1	2.45	0.49
31:CA:445:G:H1	31:CA:489:C:H42	1.60	0.49
31:CA:1530:G:H2'	31:CA:1531:A:C8	2.47	0.49
32:CE:187:LEU:HD23	32:CE:201:ILE:O	2.12	0.49
34:CG:141:ARG:HB3	34:CG:142:PRO:HD2	1.94	0.49
42:CO:15:VAL:HG23	42:CO:16:ARG:N	2.22	0.49
50:CW:38:LYS:O	50:CW:39:LYS:C	2.56	0.49
50:CW:100:ILE:HG13	50:CW:102:GLY:N	2.15	0.49
53:CC:2:G:H2'	53:CC:3:C:C6	2.46	0.49
31:DA:189:U:C4	47:DT:72:ARG:CZ	2.95	0.49
31:DA:407:G:H1	31:DA:435:C:H42	1.60	0.49
31:DA:501:C:H2'	31:DA:502:G:C8	2.47	0.49
31:DA:838:G:H2'	31:DA:841:U:H5'	1.93	0.49
31:DA:999:U:H2'	31:DA:1000:A:C8	2.47	0.49
31:DA:1068:G:N3	31:DA:1191:A:C2	2.80	0.49
31:DA:1080:A:H5'	35:DH:14:ARG:NH2	2.26	0.49
31:DA:1244:C:H2'	31:DA:1245:A:C8	2.47	0.49
31:DA:1442:G:N7	31:DA:1446:A:C2	2.80	0.49
31:DA:1478:C:H2'	31:DA:1479:C:C6	2.47	0.49
32:DE:69:LEU:HD23	32:DE:69:LEU:C	2.37	0.49
34:DG:138:TYR:CD2	34:DG:138:TYR:C	2.90	0.49
41:DN:103:LEU:N	41:DN:103:LEU:HD22	2.26	0.49
1:AA:33:U:O4	1:AA:446:G:O2'	2.25	0.49
1:AA:354:G:O2'	1:AA:355:G:H5'	2.12	0.49
1:AA:1042:G:N2	1:AA:1113:U:O2	2.35	0.49
1:AA:1141:U:P	9:AM:63:THR:HG21	2.52	0.49
1:AA:1382:G:O2'	1:AA:1383:C:H5'	2.13	0.49
1:AA:1705:G:C2'	1:AA:1706:U:H5'	2.42	0.49
1:AA:2168:G:C2	1:AA:2170:A:OP2	2.65	0.49
1:AA:2246:G:H2'	1:AA:2247:A:H8	1.76	0.49
1:AA:2472:G:H22	1:AA:2477:C:C5'	2.25	0.49
1:AA:2562:U:H1'	10:AN:23:ARG:HH11	1.76	0.49
1:AA:2760:C:O2'	1:AA:2761:G:H5'	2.12	0.49
3:AD:65:ILE:HD12	3:AD:66:ASP:N	2.28	0.49
5:AF:174:VAL:CG1	5:AF:189:THR:HG21	2.42	0.49
9:AM:9:VAL:HG21	9:AM:39:ARG:HH12	1.76	0.49
13:A0:41:ALA:O	13:A0:44:LEU:N	2.45	0.49
13:A0:74:LYS:O	13:A0:76:VAL:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A0:103:ARG:HH11	18:AS:40:ASN:HD22	1.60	0.49
21:AV:60:GLU:O	21:AV:61:LEU:HD23	2.12	0.49
22:A3:36:ILE:HD12	22:A3:37:LEU:N	2.27	0.49
24:AW:37:PHE:HA	24:AW:40:SER:HB3	1.93	0.49
1:BA:760:G:H2'	1:BA:761:A:O4'	2.11	0.49
1:BA:1543:A:OP1	1:BA:1543:A:O4'	2.30	0.49
1:BA:1668:A:C8	1:BA:1674:G:C6	3.00	0.49
1:BA:1763:G:OP1	1:BA:1763:G:O4'	2.30	0.49
1:BA:1956:U:C2'	1:BA:1957:C:H5'	2.42	0.49
1:BA:2341:G:H2'	1:BA:2342:C:C6	2.48	0.49
1:BA:2393:A:H4'	11:BO:62:LEU:N	2.27	0.49
1:BA:2523:G:H5'	1:BA:2523:G:C8	2.38	0.49
1:BA:2625:G:H2'	1:BA:2626:C:C6	2.47	0.49
1:BA:2686:G:C2	1:BA:2724:C:O2	2.65	0.49
1:BA:2818:G:O2'	1:BA:2819:G:H5'	2.11	0.49
3:BD:36:PRO:HA	3:BD:62:TYR:O	2.11	0.49
3:BD:108:PRO:HB3	3:BD:143:HIS:CE1	2.45	0.49
7:BH:10:PRO:HG2	7:BH:50:VAL:HG13	1.94	0.49
11:BO:46:LYS:O	11:BO:47:ASP:O	2.30	0.49
11:BO:106:LEU:O	11:BO:107:LYS:O	2.30	0.49
14:BQ:27:SER:CA	14:BQ:88:ASP:CB	2.61	0.49
20:BU:95:LYS:HB2	20:BU:100:ALA:HA	1.94	0.49
31:CA:450:G:N7	31:CA:481:G:C6	2.81	0.49
31:CA:501:C:H1'	31:CA:549:C:H1'	1.94	0.49
31:CA:918:A:H2'	31:CA:919:A:C8	2.47	0.49
31:CA:1394:A:C5	31:CA:1501:C:H4'	2.47	0.49
32:CE:44:LEU:HA	32:CE:47:THR:OG1	2.12	0.49
32:CE:80:ILE:HG22	32:CE:80:ILE:O	2.13	0.49
34:CG:4:TYR:CZ	34:CG:5:ILE:O	2.65	0.49
38:CK:21:LYS:O	38:CK:65:TYR:OH	2.31	0.49
39:CL:111:ARG:O	39:CL:113:LYS:HD2	2.11	0.49
47:CT:100:LYS:O	47:CT:101:ARG:HB2	2.12	0.49
31:DA:376:G:O3'	46:DS:5:ARG:NE	2.46	0.49
31:DA:1148:U:H2'	31:DA:1149:C:O4'	2.12	0.49
31:DA:1256:A:N6	31:DA:1277:C:H3'	2.26	0.49
31:DA:1285:A:C1'	31:DA:1286:A:OP2	2.58	0.49
31:DA:1330:U:O4	31:DA:1331:G:C2	2.66	0.49
33:DF:35:GLU:O	33:DF:39:ILE:HD13	2.13	0.49
34:DG:14:ARG:NH1	34:DG:14:ARG:HG3	2.27	0.49
34:DG:105:VAL:HG21	34:DG:126:ILE:HG13	1.94	0.49
39:DL:46:ALA:HA	39:DL:78:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DL:95:LYS:HZ2	39:DL:96:LEU:HD12	1.77	0.49
43:DP:80:ARG:NH1	43:DP:80:ARG:HB3	2.27	0.49
52:DB:14:A:N1	52:DB:21:A:N1	2.60	0.49
1:AA:1299:G:H5''	1:AA:1300:U:P	2.53	0.49
1:AA:1396:U:H2'	1:AA:1396:U:O2	2.12	0.49
1:AA:1495:A:H1'	1:AA:1579:A:H5''	1.94	0.49
1:AA:1657:C:H2'	1:AA:1658:C:C6	2.47	0.49
1:AA:1734:C:C3'	1:AA:1735:C:H5''	2.42	0.49
1:AA:2199:A:C5'	1:AA:2205:C:OP2	2.60	0.49
1:AA:2244:U:H2'	1:AA:2245:U:O4'	2.12	0.49
1:AA:2783:G:H2'	1:AA:2784:C:C6	2.47	0.49
4:AE:27:LEU:HD13	15:AR:1:MET:HE2	1.93	0.49
4:AE:51:PHE:CE1	4:AE:52:LEU:HG	2.47	0.49
6:AG:178:PHE:HB3	6:AG:180:PHE:CE1	2.47	0.49
16:A1:60:LEU:HD22	16:A1:60:LEU:C	2.37	0.49
16:A1:60:LEU:HD13	16:A1:64:ARG:HD2	1.92	0.49
20:AU:78:ALA:HB3	20:AU:81:LYS:CE	2.42	0.49
21:AV:5:LEU:HB3	21:AV:59:LEU:HA	1.94	0.49
1:BA:521:G:H2'	1:BA:522:G:C8	2.46	0.49
1:BA:532:A:C8	1:BA:2021:C:C5	3.00	0.49
1:BA:811:U:H3'	11:BO:22:GLY:HA2	1.94	0.49
1:BA:1517:G:H2'	1:BA:1518:C:C6	2.46	0.49
1:BA:2280:G:H4'	1:BA:2327:A:O4'	2.12	0.49
1:BA:2815:C:O2'	27:B5:43:HIS:HD2	1.95	0.49
2:BB:40:U:C5	2:BB:43:C:OP2	2.65	0.49
4:BE:92:THR:O	4:BE:95:ILE:HG12	2.11	0.49
4:BE:111:ARG:HB2	4:BE:160:TYR:O	2.13	0.49
7:BH:86:GLU:CD	7:BH:86:GLU:N	2.69	0.49
8:BK:110:ASP:OD2	8:BK:113:ARG:HB2	2.11	0.49
11:BO:81:GLN:HG3	11:BO:106:LEU:O	2.11	0.49
12:BP:35:VAL:HG12	12:BP:102:VAL:HG22	1.92	0.49
12:BP:102:VAL:O	12:BP:103:MET:C	2.55	0.49
15:BR:31:SER:OG	15:BR:85:LYS:HE2	2.12	0.49
15:BR:98:LYS:HB3	15:BR:100:TYR:CE1	2.48	0.49
15:BR:106:SER:C	15:BR:107:ASP:OD1	2.55	0.49
16:B1:79:PHE:CE2	16:B1:83:LEU:HD13	2.47	0.49
19:BT:67:GLY:O	19:BT:69:TYR:N	2.42	0.49
20:BU:20:TYR:HE2	20:BU:42:VAL:H	1.56	0.49
20:BU:89:PHE:HB2	20:BU:90:LEU:HD23	1.93	0.49
21:BV:58:VAL:O	21:BV:59:LEU:HB2	2.12	0.49
28:B6:10:LEU:HD23	30:B8:34:TRP:NE1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:49:VAL:O	30:B8:50:LEU:O	2.30	0.49
31:CA:575:G:C8	31:CA:881:G:N2	2.80	0.49
31:CA:741:G:H2'	31:CA:742:G:O4'	2.12	0.49
31:CA:1125:U:OP2	31:CA:1145:C:N4	2.45	0.49
31:CA:1125:U:O4	40:CM:5:ARG:HD2	2.11	0.49
31:CA:1175:G:N1	31:CA:1176:A:N6	2.60	0.49
31:DA:57:G:C6	31:DA:58:C:C4	3.00	0.49
31:DA:67:C:H2'	31:DA:68:G:H8	1.72	0.49
31:DA:453:A:H4'	46:DS:72:ARG:HG3	1.93	0.49
31:DA:957:U:H1'	31:DA:960:U:C5	2.47	0.49
31:DA:1054:C:O2'	31:DA:1055:A:H5''	2.13	0.49
31:DA:1055:A:N7	31:DA:1206:G:C2	2.81	0.49
31:DA:1057:G:C4	31:DA:1204:A:C2	3.01	0.49
31:DA:1154:G:H2'	31:DA:1155:G:C8	2.47	0.49
31:DA:1218:C:OP2	44:DQ:9:LYS:NZ	2.35	0.49
31:DA:1478:C:H2'	31:DA:1479:C:H6	1.76	0.49
32:DE:132:LYS:HA	32:DE:135:GLN:NE2	2.28	0.49
32:DE:137:ARG:HH12	32:DE:140:HIS:CB	2.12	0.49
32:DE:169:LYS:HD3	32:DE:169:LYS:O	2.12	0.49
33:DF:127:ARG:HG2	33:DF:127:ARG:NH1	2.28	0.49
33:DF:164:ARG:HG2	33:DF:165:THR:H	1.77	0.49
36:DI:97:PHE:CD2	48:DU:65:ILE:HD11	2.48	0.49
45:DR:4:THR:OG1	45:DR:7:GLU:HB2	2.13	0.49
1:AA:464:U:H4'	29:A7:5:TRP:CZ3	2.47	0.49
1:AA:526:A:N3	1:AA:2044:C:H1'	2.28	0.49
1:AA:580:C:H2'	1:AA:581:C:H6	1.78	0.49
1:AA:781:A:C2'	1:AA:782:A:OP2	2.61	0.49
1:AA:1057:A:C8	1:AA:1086:A:C4	3.00	0.49
1:AA:1337:G:H2'	1:AA:1338:G:H8	1.78	0.49
1:AA:1466:G:N2	1:AA:1547:C:N3	2.60	0.49
1:AA:1850:G:C2	1:AA:1893:C:O2	2.66	0.49
1:AA:1906:G:H8	1:AA:1929:G:H2'	1.77	0.49
1:AA:2131:G:C1'	1:AA:2158:A:H62	2.22	0.49
1:AA:2341:G:H2'	1:AA:2342:C:C6	2.47	0.49
1:AA:2439:A:H3'	1:AA:2439:A:P	2.51	0.49
3:AD:94:LEU:HD22	3:AD:95:LEU:N	2.26	0.49
3:AD:134:ARG:HG3	3:AD:135:PHE:CD2	2.47	0.49
4:AE:116:VAL:O	4:AE:117:MET:CB	2.53	0.49
7:AH:149:ARG:HH12	7:AH:167:GLU:CD	2.19	0.49
7:AH:153:LYS:H	7:AH:153:LYS:NZ	2.09	0.49
20:AU:81:LYS:HD3	20:AU:96:ILE:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:105:VAL:HG22	21:AV:106:GLY:N	2.21	0.49
25:AX:8:LEU:HB2	25:AX:28:LEU:HD22	1.94	0.49
1:BA:49:A:H5''	1:BA:50:U:H3'	1.94	0.49
1:BA:110:G:C6	1:BA:111:A:N7	2.80	0.49
1:BA:794:G:H2'	1:BA:795:C:C6	2.48	0.49
1:BA:805:G:O5'	11:BO:41:ARG:HG2	2.13	0.49
1:BA:807:U:C2'	1:BA:808:G:O5'	2.60	0.49
1:BA:1786:A:H2	1:BA:2606:C:H1'	1.77	0.49
1:BA:2303:G:O2'	6:BG:132:ASN:HB2	2.12	0.49
1:BA:2309:A:OP1	1:BA:2309:A:C8	2.66	0.49
1:BA:2335:A:C8	1:BA:2337:G:N7	2.81	0.49
1:BA:2565:A:H5''	1:BA:2566:A:OP2	2.12	0.49
1:BA:2638:G:OP1	4:BE:82:ARG:NH2	2.38	0.49
4:BE:5:LEU:HD23	4:BE:5:LEU:N	2.27	0.49
4:BE:7:VAL:HG21	15:BR:1:MET:HE3	1.93	0.49
5:BF:57:VAL:HG13	5:BF:58:ALA:N	2.27	0.49
6:BG:8:LYS:O	6:BG:11:TYR:HB3	2.13	0.49
6:BG:44:GLY:O	6:BG:47:LYS:HB3	2.13	0.49
7:BH:153:LYS:N	7:BH:154:PRO:HD3	2.28	0.49
11:BO:61:ARG:O	11:BO:62:LEU:O	2.30	0.49
11:BO:61:ARG:HG3	30:B8:27:THR:HG23	1.93	0.49
11:BO:81:GLN:CB	11:BO:106:LEU:HD22	2.42	0.49
13:B0:45:ARG:HA	13:B0:95:THR:HG21	1.94	0.49
16:B1:90:VAL:HG22	17:B2:39:LEU:CB	2.42	0.49
17:B2:84:LYS:O	17:B2:85:LYS:O	2.30	0.49
20:BU:50:ARG:HB3	20:BU:53:PRO:HG3	1.94	0.49
21:BV:112:ARG:HE	21:BV:112:ARG:H	1.59	0.49
21:BV:164:ALA:O	21:BV:165:VAL:HG13	2.12	0.49
31:CA:60:A:N6	31:CA:110:C:N3	2.59	0.49
31:CA:575:G:C5	31:CA:881:G:C2	3.01	0.49
31:CA:1182:G:C4'	31:CA:1183:A:H5'	2.27	0.49
31:CA:1331:G:OP2	43:CP:23:TYR:HD2	1.95	0.49
31:CA:1386:G:O2'	31:CA:1387:G:H5'	2.12	0.49
33:CF:99:VAL:HG23	33:CF:99:VAL:O	2.12	0.49
33:CF:189:ALA:O	33:CF:190:ARG:C	2.55	0.49
34:CG:154:ASN:OD1	34:CG:154:ASN:N	2.45	0.49
40:CM:48:THR:CA	40:CM:62:HIS:HB3	2.29	0.49
53:CC:24:C:H2'	53:CC:25:U:C6	2.47	0.49
31:DA:129(A):G:C6	31:DA:188:U:H4'	2.48	0.49
31:DA:287:U:H2'	31:DA:288:A:C8	2.48	0.49
31:DA:949:A:C2	31:DA:1233:G:C4	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1128:C:O2'	31:DA:1129:C:OP1	2.31	0.49
31:DA:1321:C:C4	31:DA:1322:C:C5	3.00	0.49
34:DG:32:ALA:HA	34:DG:35:ARG:HD3	1.94	0.49
34:DG:59:ARG:HE	34:DG:59:ARG:HA	1.77	0.49
53:DD:34:U:H5''	53:DD:35:C:OP2	2.12	0.49
1:AA:583:G:OP2	16:A1:10:ARG:HD2	2.13	0.49
1:AA:613:U:O2	1:AA:613:U:O4'	2.28	0.49
1:AA:1015:G:H2'	1:AA:1016:G:H5'	1.95	0.49
1:AA:1077:A:N3	1:AA:1077:A:H2'	2.27	0.49
1:AA:1085:A:O2'	1:AA:1086:A:N1	2.44	0.49
1:AA:1735:C:H6	1:AA:1735:C:H5'	1.78	0.49
1:AA:2109:U:H1'	1:AA:2181:G:N2	2.28	0.49
1:AA:2115:G:H5''	1:AA:2166:G:H2'	1.93	0.49
1:AA:2295:C:OP1	14:AQ:10:ARG:NH1	2.45	0.49
1:AA:2406:U:N3	11:AO:73:GLY:O	2.23	0.49
1:AA:2427:C:C5'	1:AA:2428:G:OP1	2.53	0.49
1:AA:2521:C:H42	1:AA:2544:G:H1	1.60	0.49
3:AD:32:SER:O	3:AD:33:LEU:CB	2.60	0.49
9:AM:65:LYS:CB	9:AM:69:GLN:HG3	2.42	0.49
10:AN:85:VAL:HG11	10:AN:114:ILE:HD12	1.94	0.49
11:AO:65:ARG:O	11:AO:66:GLY:O	2.30	0.49
14:AQ:67:ARG:HB2	14:AQ:67:ARG:NH1	2.27	0.49
22:A3:27:GLU:CG	22:A3:68:GLU:HA	2.43	0.49
22:A3:83:PRO:O	22:A3:84:LEU:CB	2.61	0.49
1:BA:198:C:C2'	1:BA:199:A:H5'	2.43	0.49
1:BA:588:U:H2'	1:BA:589:C:C6	2.48	0.49
1:BA:844:C:C5	1:BA:845:G:C6	3.00	0.49
1:BA:1665:A:H2'	1:BA:1666:G:O4'	2.11	0.49
1:BA:1786:A:C2	1:BA:2606:C:H1'	2.47	0.49
1:BA:1794:U:H2'	1:BA:1795:C:C6	2.48	0.49
1:BA:1797:C:O2'	3:BD:259:THR:OG1	2.29	0.49
1:BA:1805:U:C2	1:BA:1813:G:N2	2.80	0.49
1:BA:2133:G:C2	1:BA:2157:G:C6	3.01	0.49
1:BA:2275:C:O2	12:BP:85:LYS:CG	2.61	0.49
1:BA:2298:A:C2	1:BA:2299:G:H1'	2.47	0.49
1:BA:2410:G:C2	1:BA:2411:A:H1'	2.48	0.49
1:BA:2884:U:H2'	1:BA:2885:C:H5'	1.94	0.49
4:BE:36:ARG:NH1	4:BE:36:ARG:CG	2.71	0.49
5:BF:4:VAL:HA	5:BF:19:GLU:HB3	1.93	0.49
5:BF:123:LEU:HB2	5:BF:192:LEU:HB3	1.93	0.49
6:BG:67:LYS:HD2	26:B4:6:HIS:HE2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BH:4:ILE:CG1	7:BH:6:ARG:HG2	2.38	0.49
11:BO:5:ASP:C	11:BO:6:LEU:O	2.54	0.49
17:B2:71:LEU:O	17:B2:72:VAL:O	2.30	0.49
20:BU:20:TYR:CD1	20:BU:20:TYR:N	2.77	0.49
21:BV:15:PRO:HB2	21:BV:19:ARG:HH21	1.75	0.49
22:B3:45:PHE:CE2	22:B3:69:PHE:HE2	2.31	0.49
31:CA:662:G:H2'	31:CA:663:A:H8	1.74	0.49
31:CA:1031:G:C5	31:CA:1032:A:N7	2.80	0.49
31:CA:1162:C:C2	31:CA:1175:G:N2	2.80	0.49
32:CE:69:LEU:HD12	32:CE:70:PHE:N	2.27	0.49
32:CE:173:ALA:O	32:CE:176:GLU:HB2	2.12	0.49
33:CF:12:LEU:O	33:CF:14:ILE:N	2.45	0.49
35:CH:144:THR:N	35:CH:147:ASP:OD2	2.41	0.49
37:CJ:18:TYR:CE2	37:CJ:59:LEU:HB2	2.48	0.49
31:DA:363:A:OP1	42:DO:33:ARG:HG3	2.13	0.49
31:DA:418:C:H1'	31:DA:540:G:O2'	2.13	0.49
31:DA:512:U:C2	31:DA:513:C:C5	3.01	0.49
31:DA:980:C:H3'	31:DA:981:U:H6	1.78	0.49
31:DA:1291:G:H2'	31:DA:1292:U:C6	2.47	0.49
31:DA:1326:C:OP1	51:DX:12:LYS:HE2	2.12	0.49
31:DA:1503:A:C1'	31:DA:1504:G:OP1	2.60	0.49
35:DH:105:VAL:HB	35:DH:106:PRO:HD3	1.95	0.49
39:DL:28:VAL:HA	39:DL:63:ILE:O	2.13	0.49
39:DL:45:ALA:O	39:DL:48:GLU:HB2	2.12	0.49
48:DU:29:PHE:HD2	48:DU:29:PHE:H	1.59	0.49
48:DU:74:ARG:HD3	48:DU:81:PHE:CE2	2.48	0.49
49:DV:23:ASN:HB2	49:DV:27:GLU:OE1	2.13	0.49
49:DV:28:LYS:CG	49:DV:29:ARG:H	2.25	0.49
1:AA:299:A:H62	1:AA:300:A:N6	2.10	0.49
1:AA:412:A:H2'	1:AA:412:A:N3	2.27	0.49
1:AA:425:G:H2'	1:AA:426:C:H6	1.76	0.49
1:AA:1175:U:O3'	1:AA:1176:G:H4'	2.11	0.49
1:AA:1416:G:H1	1:AA:1582:C:H42	1.59	0.49
1:AA:1458:C:C5'	1:AA:1459:G:H5'	2.43	0.49
1:AA:1502:C:O2'	1:AA:1503:U:H5'	2.13	0.49
1:AA:1885:A:H5'	1:AA:1885:A:C8	2.37	0.49
1:AA:2600:A:H2'	1:AA:2601:C:C6	2.48	0.49
1:AA:2751:G:O2'	1:AA:2752:C:O5'	2.30	0.49
1:AA:2815:C:H2'	1:AA:2816:C:H6	1.77	0.49
3:AD:120:GLY:O	3:AD:123:ALA:CB	2.60	0.49
7:AH:86:GLU:CG	7:AH:165:ALA:H	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:38:THR:O	16:A1:41:ALA:HB3	2.13	0.49
18:AS:36:LEU:HD23	18:AS:36:LEU:N	2.26	0.49
21:AV:26:GLY:HA3	21:AV:86:VAL:O	2.13	0.49
22:A3:56:ASP:OD2	22:A3:58:THR:OG1	2.15	0.49
30:A8:33:ASN:HA	30:A8:36:LYS:CE	2.39	0.49
1:BA:58:G:N2	1:BA:70:G:C4	2.81	0.49
1:BA:77:C:H5''	24:BW:10:LEU:HD21	1.94	0.49
1:BA:491:G:H2'	1:BA:492:A:C8	2.47	0.49
1:BA:496:G:C2'	1:BA:497:A:H5'	2.43	0.49
1:BA:534:U:OP1	16:B1:24:TYR:OH	2.27	0.49
1:BA:709:U:H2'	1:BA:710:G:H8	1.74	0.49
1:BA:905:U:H3'	1:BA:906:G:H5''	1.93	0.49
1:BA:1101:U:H2'	1:BA:1102:C:C6	2.47	0.49
1:BA:1475:G:H5'	1:BA:1476:C:OP2	2.12	0.49
1:BA:1651:G:H2'	1:BA:1652:A:O4'	2.13	0.49
1:BA:2392:A:C8	11:BO:60:MET:CB	2.89	0.49
1:BA:2833:G:OP1	1:BA:2833:G:C8	2.64	0.49
3:BD:35:LYS:HD3	3:BD:63:ARG:CA	2.43	0.49
4:BE:53:PRO:HG2	4:BE:75:VAL:HG23	1.94	0.49
4:BE:130:GLY:O	4:BE:131:ALA:O	2.30	0.49
6:BG:28:VAL:O	6:BG:31:VAL:HG12	2.13	0.49
10:BN:71:ARG:HE	10:BN:105:GLU:CD	2.20	0.49
11:BO:50:ARG:HG3	11:BO:50:ARG:NH2	2.24	0.49
17:B2:5:VAL:HB	17:B2:37:VAL:HG11	1.94	0.49
26:B4:38:LYS:C	26:B4:40:HIS:N	2.70	0.49
30:B8:60:LEU:O	30:B8:61:LEU:HD12	2.13	0.49
31:CA:45:U:H2'	31:CA:46:G:C8	2.48	0.49
31:CA:618:C:H5''	31:CA:619:U:C5'	2.43	0.49
31:CA:735:C:O2'	31:CA:736:C:H5'	2.13	0.49
31:CA:1298:C:O4'	31:CA:1299:A:C5	2.66	0.49
32:CE:70:PHE:HE2	32:CE:163:PHE:HD1	1.61	0.49
35:CH:6:PHE:CE1	35:CH:66:MET:HE1	2.48	0.49
41:CN:87:THR:HG22	41:CN:88:GLY:H	1.77	0.49
42:CO:4:ILE:CD1	47:CT:32:TYR:HB3	2.43	0.49
52:CB:56:G:H2'	52:CB:57:C:C6	2.48	0.49
31:DA:543:C:OP1	34:DG:14:ARG:HD2	2.13	0.49
31:DA:1381:U:C2'	31:DA:1382:C:H5'	2.43	0.49
32:DE:5:ILE:HD11	32:DE:221:LEU:HD21	1.95	0.49
32:DE:84:GLU:O	32:DE:219:VAL:HG21	2.13	0.49
33:DF:54:ARG:HD2	33:DF:69:HIS:CD2	2.47	0.49
33:DF:67:THR:HG23	33:DF:102:ASN:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DG:119:GLN:HG2	34:DG:123:HIS:HE2	1.78	0.49
35:DH:100:VAL:HG12	35:DH:107:ARG:HE	1.76	0.49
39:DL:96:LEU:HD23	39:DL:102:LEU:HG	1.93	0.49
1:AA:181:A:C2	1:AA:435:C:C5	3.00	0.49
1:AA:769:G:O2'	1:AA:770:G:H5'	2.13	0.49
1:AA:1312:U:O2'	1:AA:1313:U:OP2	2.23	0.49
1:AA:1464:C:O2'	1:AA:1528:A:H8	1.95	0.49
1:AA:1888:G:H5''	1:AA:1888:G:N3	2.28	0.49
1:AA:2315:G:OP1	6:AG:36:LYS:NZ	2.46	0.49
4:AE:119:ARG:HH11	4:AE:119:ARG:CG	1.97	0.49
8:AK:93:THR:OG1	8:AK:96:ASP:OD2	2.29	0.49
10:AN:71:ARG:HD3	10:AN:105:GLU:OE2	2.12	0.49
11:AO:1:MET:HE2	11:AO:6:LEU:CD1	2.43	0.49
11:AO:39:LYS:HB2	11:AO:45:LEU:CD2	2.43	0.49
16:A1:112:ARG:CG	16:A1:112:ARG:NH1	2.59	0.49
17:A2:46:VAL:O	17:A2:46:VAL:HG13	2.12	0.49
21:AV:5:LEU:HD13	21:AV:5:LEU:O	2.13	0.49
26:A4:12:ALA:HB3	26:A4:24:THR:HB	1.93	0.49
1:BA:296:C:C2'	1:BA:297:C:H5'	2.43	0.49
1:BA:846:C:C4	1:BA:930:U:C4	3.01	0.49
1:BA:870:A:C2	1:BA:908:C:C2	3.00	0.49
1:BA:1012:U:C2	9:BM:25:ARG:NH1	2.80	0.49
1:BA:1765:C:H2'	1:BA:1766:U:H6	1.78	0.49
1:BA:2093:G:O5'	8:BK:24:GLY:HA3	2.13	0.49
1:BA:2415:G:O3'	11:BO:66:GLY:CA	2.53	0.49
1:BA:2842:G:O2'	1:BA:2843:G:H5'	2.12	0.49
4:BE:60:ASN:C	4:BE:62:PRO:CD	2.86	0.49
6:BG:112:PRO:HG2	26:B4:37:SER:OG	2.13	0.49
11:BO:21:ARG:O	11:BO:22:GLY:C	2.56	0.49
11:BO:110:TYR:O	11:BO:111:ARG:O	2.30	0.49
12:BP:64:ILE:CD1	12:BP:106:VAL:HG11	2.39	0.49
14:BQ:86:ALA:O	14:BQ:87:PHE:CB	2.49	0.49
31:CA:39:G:N7	31:CA:547:A:C8	2.81	0.49
31:CA:186(C):G:O6	31:CA:191(E):G:C6	2.66	0.49
31:CA:568:G:H2'	31:CA:568:G:N3	2.27	0.49
31:CA:674:G:H2'	31:CA:675:A:H8	1.78	0.49
31:CA:922:G:C6	31:CA:923:A:C6	3.01	0.49
31:CA:1004:A:P	31:CA:1025:U:O4	2.70	0.49
31:CA:1084:G:OP1	31:CA:1086:U:C2	2.65	0.49
31:CA:1162:C:C2	31:CA:1175:G:C2	3.01	0.49
31:CA:1454:G:H2'	31:CA:1455:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:68:ILE:O	32:CE:91:PRO:HD2	2.12	0.49
33:CF:6:HIS:ND1	44:CQ:49:HIS:HB3	2.28	0.49
34:CG:13:ARG:CG	34:CG:14:ARG:N	2.73	0.49
42:CO:40:VAL:CG2	42:CO:90:LEU:HD22	2.42	0.49
43:CP:45:VAL:O	43:CP:48:LEU:HD22	2.12	0.49
31:DA:279:A:H5'	31:DA:281:G:O4'	2.12	0.49
31:DA:632:A:C8	31:DA:632:A:OP2	2.63	0.49
31:DA:1381:U:H2'	31:DA:1381:U:O2	2.11	0.49
31:DA:1509:C:H2'	31:DA:1510:U:O4'	2.12	0.49
39:DL:78:LYS:HB2	39:DL:78:LYS:HZ3	1.77	0.49
39:DL:111:ARG:HG2	39:DL:112:LYS:N	2.27	0.49
43:DP:102:ARG:HD3	43:DP:105:THR:HG23	1.94	0.49
45:DR:39:LEU:CD1	45:DR:56:LEU:HB2	2.43	0.49
46:DS:55:ARG:HA	46:DS:55:ARG:HE	1.78	0.49
51:DX:6:ARG:O	51:DX:12:LYS:HG2	2.12	0.49
52:DB:77:C:N4	52:DB:78:C:N4	2.60	0.49
53:DC:18:C:O2'	53:DC:18:C:O2	2.31	0.49
53:DD:56:U:O4	53:DD:58:A:H5''	2.13	0.49
1:AA:299:A:C5	1:AA:300:A:C6	3.00	0.49
1:AA:654(M):C:C3'	1:AA:654(N):G:C8	2.96	0.49
1:AA:1167:U:H2'	1:AA:1168:G:C8	2.47	0.49
1:AA:1405:U:H2'	1:AA:1406:U:C6	2.48	0.49
1:AA:2121:G:H2'	1:AA:2122:U:O4'	2.12	0.49
1:AA:2628:C:O2'	1:AA:2781:A:H2'	2.12	0.49
1:AA:2790:A:H2	1:AA:2894:G:C5'	2.26	0.49
12:AP:20:ALA:O	12:AP:21:THR:CB	2.60	0.49
15:AR:23:ARG:HG3	15:AR:120:ARG:NH1	2.27	0.49
19:AT:57:LEU:HD12	19:AT:78:LYS:HB2	1.90	0.49
21:AV:59:LEU:O	21:AV:60:GLU:C	2.56	0.49
21:AV:87:ASP:OD1	21:AV:87:ASP:N	2.45	0.49
22:A3:40:GLN:NE2	22:A3:44:ARG:H	2.11	0.49
23:AZ:80:LEU:HD22	23:AZ:80:LEU:H	1.76	0.49
24:AW:41:ILE:HD11	24:AW:44:LEU:HD12	1.95	0.49
30:A8:52:LYS:H	30:A8:53:PRO:CD	2.23	0.49
1:BA:90:U:H2'	1:BA:90:U:O2	2.12	0.49
1:BA:574:C:N3	4:BE:145:LYS:NZ	2.57	0.49
1:BA:864:G:C6	1:BA:865:C:C4	3.00	0.49
1:BA:1380:G:N2	1:BA:1570:A:C2	2.80	0.49
1:BA:1601:G:C6	1:BA:1602:U:C4	3.00	0.49
1:BA:2138:C:C2	1:BA:2154:G:N2	2.81	0.49
1:BA:2610:C:C4'	1:BA:2611:U:OP2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:110:G:H2'	2:BB:111:U:O4'	2.12	0.49
3:BD:35:LYS:CG	3:BD:64:ILE:HG23	2.43	0.49
7:BH:149:ARG:O	7:BH:152:ARG:HA	2.12	0.49
12:BP:60:ARG:O	12:BP:60:ARG:HG3	2.13	0.49
21:BV:13:GLU:HA	21:BV:14:LYS:HZ3	1.76	0.49
31:CA:221:C:H2'	31:CA:222:U:H6	1.77	0.49
31:CA:346:G:H2'	31:CA:346:G:N3	2.27	0.49
31:CA:559:A:N3	31:CA:559:A:H2'	2.27	0.49
31:CA:864:A:H3'	31:CA:865:A:C8	2.48	0.49
31:CA:1164:G:H2'	31:CA:1165:C:H6	1.78	0.49
31:CA:1347:G:H22	31:CA:1374:A:P	2.35	0.49
31:CA:1368:G:OP1	40:CM:62:HIS:HE1	1.96	0.49
31:CA:1429:C:H2'	31:CA:1430:C:C6	2.48	0.49
31:CA:1495:U:H2'	31:CA:1496:C:C6	2.48	0.49
32:CE:7:VAL:HG22	32:CE:8:LYS:O	2.13	0.49
34:CG:53:ASP:OD2	34:CG:57:ARG:NH1	2.45	0.49
34:CG:70:ILE:HG23	34:CG:75:PHE:HB2	1.95	0.49
37:CJ:141:VAL:HG12	37:CJ:142:GLU:N	2.28	0.49
39:CL:52:ALA:O	39:CL:95:LYS:NZ	2.39	0.49
40:CM:45:ARG:HD3	44:CQ:36:PHE:CE2	2.48	0.49
31:DA:194:C:C2'	31:DA:195:A:H5''	2.43	0.49
31:DA:278:G:O4'	31:DA:282:A:H1'	2.13	0.49
31:DA:413:G:C2'	31:DA:428:G:H22	2.26	0.49
31:DA:465:A:N6	31:DA:467:G:N1	2.61	0.49
31:DA:777:A:H2	41:DN:119:CYS:HB3	1.77	0.49
31:DA:1372:U:H2'	31:DA:1373:G:O4'	2.13	0.49
32:DE:6:THR:OG1	32:DE:7:VAL:N	2.44	0.49
34:DG:119:GLN:O	34:DG:123:HIS:HD2	1.96	0.49
37:DJ:149:ARG:HG2	37:DJ:149:ARG:O	2.13	0.49
47:DT:87:LYS:O	47:DT:91:ARG:HG3	2.12	0.49
1:AA:466:A:N3	1:AA:683:C:H1'	2.28	0.49
1:AA:784:A:H5'	1:AA:785:G:OP1	2.13	0.49
1:AA:980:A:C6	1:AA:981:A:N1	2.81	0.49
1:AA:1442:G:C2	1:AA:1550:C:O2	2.66	0.49
1:AA:1480:G:C5	1:AA:1482:U:N3	2.81	0.49
1:AA:1533:C:C5'	1:AA:1534:G:OP2	2.60	0.49
1:AA:2015:A:O4'	27:A5:2:ALA:CB	2.61	0.49
3:AD:123:ALA:HB1	3:AD:131:LEU:CG	2.43	0.49
11:AO:56:SER:O	11:AO:57:THR:O	2.30	0.49
13:A0:97:VAL:HA	13:A0:113:LEU:O	2.13	0.49
14:AQ:107:GLU:O	14:AQ:107:GLU:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:31:SER:OG	15:AR:85:LYS:HE2	2.13	0.49
27:A5:6:VAL:HG13	27:A5:7:PRO:HD2	1.95	0.49
1:BA:85:G:P	20:BU:30:VAL:HB	2.53	0.49
1:BA:198:C:O2'	1:BA:199:A:H5'	2.13	0.49
1:BA:311:A:C6	1:BA:328:U:C4	3.01	0.49
1:BA:360:G:O2'	1:BA:361:G:H5'	2.13	0.49
1:BA:399:G:O6	1:BA:400:G:C2	2.66	0.49
1:BA:603:A:C2	1:BA:655:A:C2	3.01	0.49
1:BA:654(J):A:H2'	1:BA:654(J):A:N3	2.28	0.49
1:BA:1007:C:OP1	9:BM:37:LYS:NZ	2.43	0.49
1:BA:1011:G:OP1	1:BA:1011:G:H4'	2.13	0.49
1:BA:1012:U:O2	1:BA:1143:A:C2	2.66	0.49
1:BA:1050:A:C4	1:BA:2751:G:N2	2.81	0.49
1:BA:1228:G:OP1	16:B1:13:LYS:HG2	2.13	0.49
1:BA:1346:G:C4	1:BA:1347:G:C8	3.01	0.49
1:BA:1368:G:O2'	1:BA:1369:G:H5'	2.13	0.49
1:BA:1471:A:H2'	1:BA:1471:A:N3	2.27	0.49
1:BA:1818:U:H2'	3:BD:157:ARG:HG3	1.95	0.49
1:BA:1945:G:H2'	1:BA:1946:U:C6	2.48	0.49
1:BA:1999:C:H5''	1:BA:2723:C:O2'	2.12	0.49
1:BA:2036:C:C2'	1:BA:2037:G:O5'	2.61	0.49
1:BA:2168:G:C6	1:BA:2171:A:N1	2.81	0.49
1:BA:2258:C:H4'	1:BA:2259:G:OP2	2.12	0.49
1:BA:2445:G:C2'	1:BA:2446:G:H5'	2.43	0.49
1:BA:2467:C:H4'	12:BP:123:HIS:CG	2.48	0.49
1:BA:2547:U:O2'	1:BA:2548:G:H5'	2.13	0.49
1:BA:2693:A:H2'	1:BA:2694:G:H8	1.78	0.49
1:BA:2704:C:H2'	1:BA:2705:A:O4'	2.13	0.49
1:BA:2872:G:C2	1:BA:2873:A:N6	2.81	0.49
2:BB:43:C:C4'	6:BG:66:GLN:NE2	2.76	0.49
3:BD:135:PHE:CE2	34:CG:167:GLY:HA2	2.48	0.49
6:BG:67:LYS:H	26:B4:6:HIS:HE2	1.60	0.49
7:BH:130:ARG:HB3	7:BH:130:ARG:CZ	2.43	0.49
10:BN:79:PHE:N	10:BN:79:PHE:CD1	2.81	0.49
12:BP:26:TYR:HD2	12:BP:26:TYR:C	2.21	0.49
12:BP:66:ILE:O	12:BP:67:ARG:CG	2.61	0.49
12:BP:76:LYS:O	12:BP:77:LYS:O	2.31	0.49
12:BP:87:LYS:O	12:BP:88:GLY:O	2.30	0.49
16:B1:102:GLU:O	16:B1:105:VAL:HG23	2.12	0.49
17:B2:76:LYS:CG	17:B2:80:GLN:CB	2.81	0.49
23:BZ:11:ARG:HB2	23:BZ:12:PRO:CD	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:186(F):C:H2'	31:CA:187:C:O4'	2.13	0.49
31:CA:328:C:H2'	31:CA:328:C:O2	2.11	0.49
31:CA:501:C:H2'	31:CA:502:G:C8	2.48	0.49
31:CA:1221:G:H4'	49:CV:77:THR:HG21	1.95	0.49
33:CF:34:LEU:HD21	33:CF:38:ARG:NH1	2.25	0.49
38:CK:109:ILE:HD11	38:CK:120:THR:CG2	2.43	0.49
44:CQ:2:ALA:HB1	44:CQ:6:LEU:CD1	2.43	0.49
44:CQ:15:LYS:HD2	44:CQ:16:PHE:CE2	2.48	0.49
45:CR:18:PHE:CD1	45:CR:18:PHE:O	2.66	0.49
46:CS:19:ILE:HD11	46:CS:73:LEU:HD12	1.95	0.49
53:CC:2:G:H2'	53:CC:2:G:N3	2.27	0.49
53:CC:20:G:C4	53:CC:58:A:H2	2.31	0.49
53:CC:20:G:N3	53:CC:58:A:N3	2.61	0.49
31:DA:219:C:C4	31:DA:220:G:N7	2.81	0.49
31:DA:287:U:O2'	31:DA:288:A:H5'	2.12	0.49
31:DA:468:A:C8	31:DA:474:G:C8	3.01	0.49
31:DA:768:A:C5	31:DA:769:G:C8	3.00	0.49
31:DA:913:A:H1'	31:DA:914:A:OP2	2.13	0.49
31:DA:973:G:N3	40:DM:55:LYS:CE	2.76	0.49
31:DA:1126:U:O2'	31:DA:1127:G:OP1	2.30	0.49
32:DE:7:VAL:HG22	32:DE:8:LYS:N	2.24	0.49
34:DG:24:GLU:O	34:DG:27:TYR:N	2.44	0.49
35:DH:87:SER:HB3	35:DH:125:SER:O	2.12	0.49
35:DH:129:ILE:O	35:DH:132:ALA:HB3	2.13	0.49
40:DM:6:ILE:HG22	40:DM:98:ILE:HG23	1.93	0.49
40:DM:50:ILE:HG23	40:DM:57:LYS:HA	1.93	0.49
45:DR:17:ARG:CG	45:DR:17:ARG:NH1	2.59	0.49
1:AA:65:C:H2'	1:AA:66:C:C6	2.48	0.48
1:AA:270(D):C:O2	1:AA:270(W):G:C2	2.66	0.48
1:AA:280:C:C2'	1:AA:281:G:H5'	2.43	0.48
1:AA:299:A:N7	1:AA:300:A:C6	2.81	0.48
1:AA:459:U:H2'	1:AA:460:A:H8	1.78	0.48
1:AA:480:A:C2'	1:AA:481:G:OP1	2.61	0.48
1:AA:1021:A:H8	1:AA:1022:G:H5''	1.77	0.48
1:AA:1488:G:C6	1:AA:1489:U:C4	3.01	0.48
1:AA:2109:U:H5''	1:AA:2110:G:OP2	2.12	0.48
4:AE:4:ILE:CD1	4:AE:28:ALA:HB1	2.40	0.48
4:AE:52:LEU:O	4:AE:53:PRO:O	2.31	0.48
6:AG:101:ILE:HD13	6:AG:102:PHE:N	2.27	0.48
8:AK:78:THR:HG23	8:AK:141:LYS:HZ3	1.74	0.48
11:AO:71:VAL:H	11:AO:72:PRO:CD	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:19:GLY:C	12:AP:98:LYS:CD	2.86	0.48
12:AP:109:VAL:HG13	12:AP:113:GLN:HB3	1.94	0.48
12:AP:133:ARG:O	12:AP:134:ARG:HB2	2.13	0.48
17:A2:5:VAL:O	17:A2:11:GLN:HA	2.13	0.48
21:AV:34:ASN:C	21:AV:34:ASN:OD1	2.55	0.48
23:AZ:64:ALA:HA	23:AZ:67:ILE:HG13	1.95	0.48
1:BA:282:A:C6	1:BA:284:U:C2	3.01	0.48
1:BA:1089:G:H5''	1:BA:1090:U:OP1	2.13	0.48
1:BA:1223:C:C2'	1:BA:1224:G:H5'	2.43	0.48
1:BA:1642:G:C2'	1:BA:1643:G:H5'	2.43	0.48
1:BA:1952:A:C2	10:BN:22:ILE:HG23	2.47	0.48
1:BA:1959:G:O4'	31:DA:1418:A:H1'	2.13	0.48
2:BB:40:U:H1'	2:BB:46:A:N1	2.27	0.48
4:BE:204:ALA:O	4:BE:205:ALA:CB	2.60	0.48
4:BE:204:ALA:O	4:BE:205:ALA:HB3	2.13	0.48
6:BG:21:ARG:HG2	6:BG:21:ARG:NH1	2.27	0.48
11:BO:21:ARG:O	11:BO:22:GLY:O	2.30	0.48
12:BP:79:LEU:HD13	12:BP:80:GLU:OE2	2.13	0.48
17:B2:41:GLY:HA3	17:B2:46:VAL:HG11	1.94	0.48
17:B2:73:SER:CB	17:B2:83:ARG:O	2.61	0.48
20:BU:42:VAL:HG13	20:BU:65:ALA:O	2.13	0.48
25:BX:11:SER:HB3	25:BX:13:ILE:HD13	1.95	0.48
30:B8:59:LYS:HB2	30:B8:59:LYS:HE3	1.58	0.48
31:CA:51:A:C2	31:CA:353:A:N1	2.80	0.48
31:CA:1305:G:H5''	51:CX:4:GLY:CA	2.42	0.48
31:CA:1521:G:H2'	31:CA:1522:U:C6	2.48	0.48
39:CL:79:LEU:HD23	39:CL:101:PHE:O	2.13	0.48
41:CN:54:ARG:NH2	53:CD:40:C:O3'	2.46	0.48
42:CO:67:ILE:HG12	42:CO:97:ILE:HD12	1.94	0.48
43:CP:39:ILE:HG23	43:CP:52:GLU:OE2	2.13	0.48
47:CT:52:LYS:CE	47:CT:79:SER:OG	2.56	0.48
49:CV:24:ALA:C	49:CV:26:GLY:N	2.68	0.48
50:CW:26:ASN:HB2	50:CW:71:THR:CG2	2.41	0.48
52:CB:34:U:O2	52:CB:36:A:C8	2.66	0.48
31:DA:350:G:C6	31:DA:351:G:O6	2.66	0.48
31:DA:1298:C:C5	37:DJ:114:ARG:HD2	2.48	0.48
31:DA:1460:A:H2'	31:DA:1461:G:O4'	2.12	0.48
33:DF:70:VAL:HG12	33:DF:72:LYS:H	1.77	0.48
34:DG:8:VAL:O	34:DG:10:ARG:N	2.46	0.48
37:DJ:86:GLN:NE2	53:DD:32:G:H21	2.10	0.48
40:DM:34:VAL:HG22	40:DM:74:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DP:96:LEU:HB3	43:DP:97:PRO:HD2	1.95	0.48
44:DQ:4:LYS:O	44:DQ:7:ILE:HG12	2.12	0.48
44:DQ:45:ARG:HG3	44:DQ:45:ARG:HH11	1.78	0.48
49:DV:51:VAL:O	49:DV:58:VAL:HG22	2.13	0.48
1:AA:26:G:H1'	1:AA:515:A:H61	1.77	0.48
1:AA:197:A:N6	1:AA:2430:A:H2'	2.29	0.48
1:AA:608:A:C4	1:AA:621:A:C6	3.00	0.48
1:AA:695:G:OP1	1:AA:1380:G:O2'	2.31	0.48
1:AA:697:C:C2	1:AA:698:C:C5	3.01	0.48
1:AA:818:G:H4'	1:AA:838:C:O3'	2.12	0.48
1:AA:822:U:H2'	1:AA:822:U:O2	2.13	0.48
1:AA:1152:C:O2'	1:AA:1153:C:H5'	2.14	0.48
1:AA:1208:C:C2	1:AA:1209:G:C8	3.00	0.48
1:AA:1279:G:N2	1:AA:1292:U:C2	2.81	0.48
1:AA:1403:C:C5'	1:AA:1471:A:H1'	2.44	0.48
1:AA:1797:C:C2'	1:AA:1798:U:H5'	2.43	0.48
1:AA:2406:U:O4	11:AO:70:GLN:CB	2.52	0.48
1:AA:2730:C:O2'	1:AA:2731:G:H5'	2.12	0.48
5:AF:129:PHE:O	5:AF:130:ALA:HB3	2.13	0.48
5:AF:136:THR:O	5:AF:140:LEU:HB2	2.11	0.48
6:AG:63:ILE:HD12	6:AG:141:PHE:CD2	2.48	0.48
8:AK:143:SER:HB3	8:AK:144:VAL:HG12	1.95	0.48
11:AO:9:ASN:CB	11:AO:10:PRO:CD	2.76	0.48
11:AO:52:GLU:OE1	11:AO:55:ARG:NE	2.45	0.48
11:AO:61:ARG:O	11:AO:62:LEU:O	2.30	0.48
12:AP:61:GLY:O	12:AP:62:GLY:O	2.30	0.48
13:A0:94:TYR:CD2	13:A0:94:TYR:N	2.79	0.48
14:AQ:35:ILE:C	14:AQ:36:TYR:CD1	2.88	0.48
20:AU:12:THR:OG1	20:AU:26:LYS:HE2	2.12	0.48
21:AV:63:ASP:O	21:AV:63:ASP:OD1	2.31	0.48
25:AX:3:ARG:O	25:AX:59:VAL:HG12	2.12	0.48
25:AX:8:LEU:HD22	25:AX:31:LEU:CD2	2.43	0.48
1:BA:389:G:N2	11:BO:71:VAL:HG12	2.29	0.48
1:BA:389:G:H22	11:BO:72:PRO:CD	2.25	0.48
1:BA:430:G:H5''	1:BA:431:U:OP2	2.12	0.48
1:BA:654(A):A:C2	1:BA:654(T):A:N1	2.81	0.48
1:BA:674:G:O2'	5:BF:74:ARG:CG	2.61	0.48
1:BA:878:A:C6	1:BA:900:A:N7	2.81	0.48
1:BA:1005:C:O2	1:BA:1143:A:C6	2.66	0.48
1:BA:1163:G:H2'	1:BA:1164:G:H8	1.78	0.48
1:BA:1483:G:C2	1:BA:1484:G:C8	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1520:U:H2'	1:BA:1521:G:O4'	2.13	0.48
1:BA:2112:G:C4	1:BA:2169:A:N6	2.81	0.48
1:BA:2372:G:O4'	28:B6:46:HIS:HE1	1.95	0.48
1:BA:2590:A:OP2	3:BD:237:GLU:HB3	2.13	0.48
1:BA:2855:C:H2'	1:BA:2856:C:H6	1.78	0.48
2:BB:42:C:O2'	6:BG:66:GLN:HG2	2.13	0.48
2:BB:74:U:C3'	2:BB:75:G:H5''	2.42	0.48
4:BE:120:TRP:CE3	4:BE:155:LYS:HD3	2.48	0.48
7:BH:37:VAL:HG22	7:BH:38:SER:H	1.78	0.48
8:BK:76:THR:HG23	8:BK:77:LEU:N	2.25	0.48
11:BO:36:LYS:HB3	11:BO:37:GLY:H	1.46	0.48
12:BP:19:GLY:N	12:BP:98:LYS:NZ	2.55	0.48
14:BQ:25:ARG:CZ	14:BQ:40:ILE:HD12	2.43	0.48
21:BV:24:LEU:HD12	21:BV:24:LEU:C	2.38	0.48
31:CA:142:G:C6	31:CA:143:A:C6	3.00	0.48
31:CA:198:G:C5	31:CA:220:G:C2	3.02	0.48
31:CA:622:A:C8	31:CA:623:C:C6	3.00	0.48
31:CA:923:A:H2'	31:CA:924:C:C6	2.49	0.48
31:CA:1149:C:H2'	31:CA:1150:U:C6	2.48	0.48
31:CA:1258:G:O2'	31:CA:1259:C:H5'	2.12	0.48
31:CA:1410:G:H2'	31:CA:1411:C:C6	2.48	0.48
31:CA:1429:C:H2'	31:CA:1430:C:H6	1.76	0.48
32:CE:204:ASN:ND2	32:CE:206:ASP:N	2.51	0.48
33:CF:27:LYS:HA	33:CF:27:LYS:NZ	2.28	0.48
34:CG:129:ASN:HD21	34:CG:144:ASP:CG	2.21	0.48
53:CC:41:C:O2'	53:CC:42:C:H5'	2.12	0.48
31:DA:169:C:H6	31:DA:169:C:C5'	2.26	0.48
31:DA:370:C:H42	31:DA:391:G:H1	1.61	0.48
31:DA:390:C:H2'	31:DA:391:G:C8	2.47	0.48
31:DA:1004:A:C8	31:DA:1036:G:N2	2.71	0.48
31:DA:1206:G:C4	31:DA:1207:G:C8	3.01	0.48
32:DE:92:TYR:HE2	32:DE:151:GLY:H	1.59	0.48
32:DE:118:LEU:HD13	32:DE:142:LEU:HB2	1.95	0.48
37:DJ:78:ARG:NH1	37:DJ:80:VAL:HB	2.28	0.48
39:DL:55:ALA:HB1	39:DL:59:PHE:CE1	2.48	0.48
53:DD:41:C:O2'	53:DD:42:C:H5'	2.13	0.48
1:AA:317:G:C2	1:AA:318:C:C2	3.01	0.48
1:AA:638:G:H2'	1:AA:639:U:O4'	2.12	0.48
1:AA:654(M):C:H3'	1:AA:654(N):G:H8	1.78	0.48
1:AA:1061:U:H1'	1:AA:1070:A:C2	2.48	0.48
1:AA:2015:A:C2'	27:A5:2:ALA:HA	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2575:C:H5'	4:AE:144:ARG:HG2	1.95	0.48
2:AB:82:G:C4	2:AB:83:G:C8	3.01	0.48
3:AD:8:PRO:CB	3:AD:14:ARG:HB2	2.43	0.48
5:AF:53:THR:HG23	5:AF:56:GLU:CD	2.38	0.48
6:AG:20:ILE:O	6:AG:24:GLY:N	2.40	0.48
7:AH:59:ARG:HG3	7:AH:59:ARG:NH1	2.06	0.48
13:A0:104:ARG:HB3	13:A0:107:ASP:OD2	2.13	0.48
15:AR:58:ASN:O	15:AR:60:THR:HG23	2.14	0.48
15:AR:128:GLU:O	15:AR:128:GLU:HG2	2.13	0.48
18:AS:2:GLU:CA	18:AS:64:MET:HE1	2.43	0.48
18:AS:7:ALA:HB2	18:AS:50:VAL:HG22	1.94	0.48
21:AV:1:MET:HE3	21:AV:135:GLU:CB	2.27	0.48
1:BA:66:C:C2'	1:BA:67:U:H5'	2.43	0.48
1:BA:74:A:O5'	1:BA:74:A:C8	2.67	0.48
1:BA:90:U:O2'	1:BA:91:A:H5''	2.12	0.48
1:BA:329:G:C5	20:BU:19:LYS:HE2	2.48	0.48
1:BA:528:A:H3'	1:BA:528:A:C8	2.47	0.48
1:BA:623:G:H2'	1:BA:624:C:C6	2.48	0.48
1:BA:850:C:O2'	1:BA:851:U:H5'	2.13	0.48
1:BA:957:A:N6	1:BA:2459:A:C8	2.82	0.48
1:BA:1059:G:H5''	1:BA:1060:U:H2'	1.96	0.48
1:BA:1925:C:O2'	1:BA:1926:U:H5'	2.13	0.48
1:BA:2136:C:H2'	1:BA:2137:C:C6	2.49	0.48
1:BA:2316:C:O2'	6:BG:128:ARG:NH2	2.43	0.48
1:BA:2531:A:C5'	7:BH:157:TYR:CE2	2.94	0.48
1:BA:2531:A:H2'	1:BA:2532:G:H5'	1.94	0.48
1:BA:2850:A:H2'	1:BA:2851:A:C8	2.47	0.48
5:BF:198:ALA:O	5:BF:201:VAL:HG12	2.13	0.48
6:BG:73:ALA:HB2	6:BG:82:LEU:HD21	1.95	0.48
11:BO:56:SER:O	11:BO:57:THR:O	2.30	0.48
22:B3:31:VAL:HG22	22:B3:65:GLY:O	2.13	0.48
24:BW:17:SER:CB	24:BW:21:LEU:H	2.26	0.48
31:CA:119:A:C4'	31:CA:120:A:O5'	2.57	0.48
31:CA:186(B):C:O2'	31:CA:186(C):G:H5'	2.13	0.48
31:CA:872:A:C2	31:CA:874:G:C6	3.01	0.48
31:CA:883:C:C2'	31:CA:884:U:H5'	2.43	0.48
31:CA:908:A:H2'	31:CA:909:A:C8	2.49	0.48
31:CA:999:U:O2'	31:CA:1000:A:H5'	2.13	0.48
31:CA:1106:G:H2'	31:CA:1107:C:C6	2.46	0.48
31:CA:1128:C:O2'	31:CA:1130:A:C8	2.41	0.48
31:CA:1159:U:C2	31:CA:1182:G:C2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:7:VAL:HB	32:CE:217:ARG:NH2	2.23	0.48
33:CF:41:GLY:O	33:CF:44:GLU:HB2	2.13	0.48
33:CF:114:PRO:O	33:CF:118:GLN:HG3	2.13	0.48
35:CH:154:GLY:O	35:CH:155:GLU:CB	2.60	0.48
37:CJ:51:GLN:HA	37:CJ:51:GLN:OE1	2.12	0.48
40:CM:100:THR:O	40:CM:101:VAL:HG23	2.13	0.48
42:CO:83:ARG:HG3	42:CO:98:VAL:HG22	1.95	0.48
52:CB:33:U:C5	52:CB:34:U:H5	2.31	0.48
31:DA:57:G:C6	31:DA:58:C:N4	2.81	0.48
31:DA:854:G:C2	31:DA:855:G:C8	3.02	0.48
31:DA:877:C:O2'	31:DA:878:G:H5'	2.14	0.48
31:DA:990:C:C2	31:DA:1216:G:C2	3.00	0.48
31:DA:992:U:C1'	31:DA:993:G:OP2	2.61	0.48
31:DA:1130:A:O5'	31:DA:1131:G:OP2	2.30	0.48
31:DA:1223:C:P	31:DA:1224:G:H2'	2.54	0.48
31:DA:1492:A:N3	54:D1:20:U:O2'	2.45	0.48
32:DE:53:ARG:NH1	32:DE:199:TYR:HD2	2.11	0.48
36:DI:76:ALA:HB1	36:DI:80:ARG:HH21	1.77	0.48
42:DO:79:GLU:HG3	42:DO:80:HIS:CG	2.49	0.48
53:DC:60:A:H2'	53:DC:61:U:H5'	1.96	0.48
1:AA:27:G:C4	1:AA:512:G:N2	2.81	0.48
1:AA:571:A:C5	1:AA:575:A:C8	3.01	0.48
1:AA:654(M):C:C2'	1:AA:654(N):G:H8	2.25	0.48
1:AA:870:A:C2	1:AA:871:U:H1'	2.48	0.48
1:AA:1278:A:O2'	13:A0:34:ILE:HD11	2.13	0.48
1:AA:1344:G:H4'	1:AA:1384:A:N7	2.29	0.48
1:AA:1847:A:H4'	1:AA:1848:A:OP2	2.13	0.48
1:AA:1916:A:H3'	1:AA:1917:U:H6	1.78	0.48
1:AA:2467:C:C5'	12:AP:123:HIS:CE1	2.96	0.48
1:AA:2705:A:H2'	1:AA:2706:G:O4'	2.12	0.48
3:AD:35:LYS:CB	3:AD:64:ILE:H	2.25	0.48
6:AG:77:ILE:HG21	6:AG:80:PHE:CE1	2.46	0.48
7:AH:99:VAL:O	7:AH:102:ALA:HB3	2.14	0.48
7:AH:115:VAL:O	7:AH:115:VAL:CG1	2.58	0.48
7:AH:139:GLN:O	7:AH:143:GLN:HB2	2.14	0.48
8:AK:29:TYR:O	8:AK:33:ARG:HB2	2.13	0.48
9:AM:22:THR:HG22	9:AM:23:LEU:N	2.28	0.48
10:AN:49:ARG:NH2	31:CA:1423:G:OP1	2.44	0.48
14:AQ:85:VAL:HG23	14:AQ:112:PHE:CZ	2.47	0.48
15:AR:23:ARG:HB3	15:AR:24:PRO:HD2	1.93	0.48
15:AR:118:ARG:NH1	31:CA:1446:A:C6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:102:GLU:HB3	16:A1:105:VAL:CG2	2.44	0.48
17:A2:47:VAL:HG23	17:A2:48:GLY:N	2.27	0.48
18:AS:70:TYR:HE2	18:AS:108:GLY:HA3	1.77	0.48
24:AW:58:ALA:O	24:AW:62:THR:HG22	2.12	0.48
28:A6:25:LYS:HZ3	28:A6:27:LYS:CD	2.22	0.48
1:BA:298:G:O2'	1:BA:322:A:N1	2.41	0.48
1:BA:753:C:H2'	1:BA:754:C:H6	1.78	0.48
1:BA:1143:A:O4'	1:BA:1143:A:N3	2.45	0.48
1:BA:1416:G:C2'	1:BA:1417:C:H6	2.26	0.48
1:BA:1466:G:H2'	1:BA:1466:G:N3	2.29	0.48
1:BA:2667:C:H1'	7:BH:109:PHE:HD2	1.76	0.48
1:BA:2790:A:C4'	1:BA:2791:C:OP2	2.60	0.48
1:BA:2860:A:N7	1:BA:2861:G:H1'	2.29	0.48
1:BA:2893:G:H8	1:BA:2893:G:OP2	1.97	0.48
3:BD:34:VAL:O	3:BD:34:VAL:HG12	2.13	0.48
4:BE:25:VAL:O	4:BE:26:ILE:HG12	2.14	0.48
4:BE:63:LEU:HD23	4:BE:66:HIS:CE1	2.48	0.48
5:BF:123:LEU:O	5:BF:123:LEU:HD12	2.13	0.48
5:BF:155:LEU:CD2	5:BF:186:ILE:HD13	2.35	0.48
10:BN:4:PRO:O	10:BN:5:GLN:CB	2.61	0.48
20:BU:13:VAL:HG23	20:BU:73:ARG:H	1.78	0.48
21:BV:105:VAL:O	21:BV:140:ASP:HA	2.13	0.48
31:CA:141:A:C2	31:CA:142:G:C4	3.01	0.48
31:CA:148:G:N3	31:CA:149:A:C8	2.81	0.48
31:CA:428:G:O3'	34:CG:36:ARG:NH2	2.46	0.48
31:CA:475:G:H2'	31:CA:476:G:O4'	2.13	0.48
31:CA:491:G:H2'	31:CA:492:G:H8	1.78	0.48
31:CA:616:G:C2	31:CA:617:G:N7	2.81	0.48
31:CA:626:U:C2	31:CA:627:G:N7	2.80	0.48
31:CA:874:G:C6	31:CA:875:C:C4	3.01	0.48
31:CA:1031:G:H2'	31:CA:1032:A:H8	1.78	0.48
31:CA:1101:A:H4'	31:CA:1102:A:O5'	2.14	0.48
31:CA:1116:C:O2'	39:CL:108:VAL:HG11	2.14	0.48
32:CE:70:PHE:O	32:CE:93:VAL:N	2.43	0.48
37:CJ:20:ASP:HB3	37:CJ:23:VAL:CG2	2.43	0.48
39:CL:83:ARG:HA	39:CL:86:VAL:HG12	1.95	0.48
31:DA:487:A:H2'	31:DA:488:C:O4'	2.12	0.48
31:DA:558:G:H5''	31:DA:559:A:OP2	2.14	0.48
31:DA:1291:G:C6	31:DA:1292:U:C4	3.01	0.48
32:DE:75:LYS:HD3	32:DE:78:GLN:HE21	1.78	0.48
32:DE:102:LEU:HD12	32:DE:102:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DE:204:ASN:HB2	32:DE:210:SER:HB3	1.96	0.48
32:DE:239:VAL:O	32:DE:240:GLN:HB2	2.12	0.48
34:DG:81:GLU:OE2	34:DG:139:ARG:NH2	2.45	0.48
40:DM:30:SER:OG	40:DM:84:GLN:HG3	2.13	0.48
43:DP:110:ARG:HH11	43:DP:110:ARG:HG2	1.75	0.48
1:AA:229:A:HO2'	1:AA:230:U:P	2.35	0.48
1:AA:280:C:N3	1:AA:361:G:C2	2.82	0.48
1:AA:573:G:HO2'	1:AA:574:C:H3'	1.76	0.48
1:AA:864:G:C6	1:AA:865:C:N4	2.81	0.48
1:AA:966:G:H2'	1:AA:967:C:H6	1.76	0.48
1:AA:1169:G:N2	1:AA:1181:C:C2	2.81	0.48
1:AA:1265:A:H8	1:AA:1265:A:OP1	1.97	0.48
1:AA:1278:A:OP1	13:A0:36:THR:HG22	2.12	0.48
1:AA:1322:A:H2'	1:AA:1323:U:H6	1.78	0.48
1:AA:1439:A:C2	1:AA:1553:A:C5	3.02	0.48
1:AA:1502:C:C2'	1:AA:1503:U:H5'	2.43	0.48
1:AA:1705:G:O2'	1:AA:1706:U:H5'	2.13	0.48
1:AA:2064:C:H2'	1:AA:2065:C:C6	2.47	0.48
1:AA:2098:U:C2	1:AA:2099:U:C6	3.01	0.48
1:AA:2156:G:C2	1:AA:2157:G:N2	2.82	0.48
1:AA:2785:C:OP1	4:AE:41:LYS:HE3	2.13	0.48
5:AF:65:TRP:CZ3	5:AF:72:ARG:HB3	2.48	0.48
8:AK:23:PRO:O	8:AK:26:ALA:HB3	2.12	0.48
11:AO:135:LEU:O	11:AO:139:LYS:HG3	2.13	0.48
12:AP:87:LYS:O	12:AP:88:GLY:O	2.30	0.48
16:A1:50:ARG:HG2	16:A1:53:ARG:HH22	1.79	0.48
18:AS:11:ARG:CZ	18:AS:98:LYS:HB3	2.44	0.48
1:BA:152:G:H1	1:BA:174:C:N4	2.09	0.48
1:BA:265:A:H1'	1:BA:266:G:O4'	2.14	0.48
1:BA:270(Y):G:C2	1:BA:270(Z):U:O4	2.67	0.48
1:BA:442:G:C6	1:BA:444:C:N4	2.81	0.48
1:BA:448:U:O4	1:BA:583:G:H1'	2.14	0.48
1:BA:668:G:H2'	1:BA:669:G:OP1	2.13	0.48
1:BA:921:G:H2'	1:BA:922:U:C6	2.49	0.48
1:BA:947:G:N3	1:BA:984:A:H2	2.11	0.48
1:BA:1746:G:C2	1:BA:1747:G:C8	3.01	0.48
1:BA:1753:G:N1	1:BA:1756:G:C2	2.82	0.48
1:BA:2019:A:N7	27:B5:9:LYS:CE	2.74	0.48
2:BB:15:A:H1'	2:BB:109:G:N9	2.28	0.48
3:BD:148:GLU:O	3:BD:151:LYS:HB2	2.13	0.48
6:BG:108:ASN:OD1	26:B4:38:LYS:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BN:25:LEU:HB2	10:BN:38:VAL:HG23	1.95	0.48
11:BO:5:ASP:O	11:BO:6:LEU:C	2.51	0.48
11:BO:75:ILE:HD13	11:BO:75:ILE:N	2.27	0.48
15:BR:98:LYS:HD2	15:BR:98:LYS:N	2.29	0.48
16:B1:91:ASP:O	16:B1:92:ARG:HG2	2.13	0.48
17:B2:7:THR:HG23	17:B2:22:VAL:HG21	1.95	0.48
17:B2:71:LEU:C	17:B2:72:VAL:HG23	2.38	0.48
18:BS:19:LEU:O	18:BS:22:ASP:HB2	2.14	0.48
20:BU:76:CYS:HB3	20:BU:77:PRO:HD2	1.95	0.48
23:BZ:6:GLU:O	23:BZ:91:LYS:HE2	2.13	0.48
31:CA:35:G:O2'	42:CO:115:SER:O	2.25	0.48
31:CA:439:A:C2'	31:CA:440:A:O5'	2.62	0.48
31:CA:552:U:O2'	31:CA:553:A:H5'	2.13	0.48
31:CA:811:C:H4'	31:CA:900:A:H62	1.75	0.48
31:CA:943:U:C2'	31:CA:944:G:H5'	2.44	0.48
31:CA:1070:U:H2'	31:CA:1071:C:H6	1.78	0.48
33:CF:131:ARG:HH11	33:CF:131:ARG:CG	2.26	0.48
31:DA:961:U:OP2	31:DA:1223:C:H4'	2.12	0.48
31:DA:972:C:OP2	40:DM:57:LYS:HD3	2.14	0.48
31:DA:973:G:H3'	31:DA:974:A:C5'	2.41	0.48
31:DA:1037:C:H2'	31:DA:1038:C:C6	2.48	0.48
31:DA:1055:A:C8	31:DA:1206:G:C2	3.02	0.48
31:DA:1127:G:N2	31:DA:1145:C:C2	2.81	0.48
31:DA:1209:C:O2'	31:DA:1210:C:H5'	2.13	0.48
31:DA:1253:G:O2'	31:DA:1254:C:H5'	2.13	0.48
31:DA:1346:A:C8	37:DJ:10:ARG:NH2	2.82	0.48
32:DE:237:ALA:N	32:DE:239:VAL:H	2.10	0.48
34:DG:105:VAL:HG13	34:DG:110:PHE:HB2	1.95	0.48
34:DG:111:ALA:HB1	34:DG:116:GLN:OE1	2.13	0.48
35:DH:91:LEU:CD1	35:DH:120:THR:HG22	2.33	0.48
35:DH:150:ARG:O	35:DH:154:GLY:HA3	2.14	0.48
37:DJ:26:PHE:CG	37:DJ:62:PHE:HE1	2.32	0.48
37:DJ:99:LEU:HD22	37:DJ:103:TRP:CZ2	2.47	0.48
37:DJ:149:ARG:HD3	41:DN:59:TYR:CZ	2.48	0.48
40:DM:70:ARG:HH11	40:DM:70:ARG:HG2	1.79	0.48
43:DP:10:PRO:CB	43:DP:18:ALA:HB1	2.40	0.48
52:DB:51:A:OP1	52:DB:51:A:C8	2.66	0.48
53:DD:52:C:N4	53:DD:64:G:H1	2.11	0.48
1:AA:674:G:O2'	5:AF:74:ARG:HD3	2.12	0.48
1:AA:716:A:H2'	1:AA:717:G:O5'	2.13	0.48
1:AA:806:C:OP2	11:AO:41:ARG:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:850:C:O2'	25:AX:46:ASN:ND2	2.45	0.48
1:AA:979:G:N2	1:AA:985:C:C4	2.82	0.48
1:AA:2159:G:H2'	1:AA:2160:G:H8	1.78	0.48
1:AA:2566:A:O2'	1:AA:2567:G:OP2	2.27	0.48
1:AA:2731:G:C6	1:AA:2732:G:O6	2.66	0.48
2:AB:42:C:H4'	6:AG:67:LYS:HD3	1.96	0.48
4:AE:27:LEU:HD13	15:AR:1:MET:HE1	1.95	0.48
4:AE:37:ARG:NE	4:AE:37:ARG:N	2.61	0.48
5:AF:123:LEU:HD12	5:AF:124:LEU:N	2.28	0.48
6:AG:82:LEU:O	6:AG:83:ARG:C	2.56	0.48
12:AP:18:LYS:HG3	12:AP:19:GLY:H	1.78	0.48
1:BA:49:A:C6	1:BA:118:A:C5	3.01	0.48
1:BA:137(A):G:H2'	1:BA:139:G:N7	2.27	0.48
1:BA:276:A:H2'	1:BA:277:C:C6	2.48	0.48
1:BA:377:C:H2'	1:BA:378:C:H6	1.78	0.48
1:BA:458:G:O2'	29:B7:39:ARG:HD3	2.14	0.48
1:BA:492:A:C2'	1:BA:493:G:H5'	2.44	0.48
1:BA:593:G:C1'	30:B8:4:MET:HE1	2.44	0.48
1:BA:714:U:O2	1:BA:716:A:C8	2.67	0.48
1:BA:868:U:C4	1:BA:869:G:N7	2.81	0.48
1:BA:881:G:H5'	1:BA:882:G:OP2	2.13	0.48
1:BA:988:A:C2'	1:BA:989:G:O5'	2.62	0.48
1:BA:1012:U:N3	1:BA:1143:A:C2	2.78	0.48
1:BA:1169:G:N2	1:BA:1181:C:C2	2.82	0.48
1:BA:1235:G:C6	1:BA:1236:G:N1	2.82	0.48
1:BA:1347:G:H1'	29:B7:49:ARG:NH2	2.28	0.48
1:BA:1472:A:H2'	1:BA:1473:G:C5'	2.43	0.48
1:BA:1543:A:H2'	1:BA:1544:C:H3'	1.95	0.48
1:BA:1771:C:C1'	1:BA:1786:A:C8	2.97	0.48
1:BA:2274:A:C2	1:BA:2276:G:H1'	2.48	0.48
1:BA:2275:C:O2'	12:BP:84:GLY:C	2.56	0.48
7:BH:3:ARG:HG3	7:BH:4:ILE:N	2.29	0.48
7:BH:7:LEU:N	7:BH:8:PRO:HD2	2.29	0.48
9:BM:47:ALA:C	9:BM:49:GLY:N	2.68	0.48
9:BM:67:LEU:O	9:BM:88:GLU:HG3	2.12	0.48
10:BN:37:ASP:O	10:BN:62:VAL:HG23	2.13	0.48
14:BQ:66:ALA:HA	14:BQ:69:VAL:CG1	2.44	0.48
14:BQ:110:LEU:HD22	14:BQ:111:GLU:N	2.29	0.48
15:BR:3:ARG:O	15:BR:7:ILE:HB	2.13	0.48
15:BR:13:ARG:CD	15:BR:13:ARG:N	2.75	0.48
16:B1:65:ILE:HD11	16:B1:96:ALA:HB3	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B2:80:GLN:HG3	17:B2:81:TYR:H	1.79	0.48
28:B6:9:LEU:HD22	28:B6:11:LEU:HD22	1.95	0.48
31:CA:91:C:H2'	31:CA:92:G:O4'	2.13	0.48
31:CA:262:A:H3'	31:CA:263:A:H8	1.78	0.48
31:CA:349:A:O2'	31:CA:350:G:H5'	2.13	0.48
31:CA:562:C:H1'	42:CO:12:ARG:HD2	1.95	0.48
31:CA:706:A:O2'	41:CN:31:THR:CG2	2.62	0.48
31:CA:1098:C:H2'	31:CA:1099:G:O4'	2.13	0.48
31:CA:1133:G:C4	31:CA:1134:G:C8	3.01	0.48
31:CA:1226:C:H4'	49:CV:80:TYR:OH	2.13	0.48
31:CA:1256:A:C2	31:CA:1277:C:C4	3.02	0.48
32:CE:165:VAL:CG2	32:CE:166:ASP:H	2.25	0.48
33:CF:12:LEU:O	33:CF:16:ARG:O	2.31	0.48
34:CG:64:LEU:HB2	34:CG:198:VAL:HG21	1.95	0.48
34:CG:146:ILE:HD12	34:CG:146:ILE:H	1.79	0.48
37:CJ:21:VAL:HG23	37:CJ:22:LEU:N	2.29	0.48
38:CK:103:VAL:CG2	38:CK:110:ALA:HB2	2.42	0.48
46:CS:72:ARG:HD3	46:CS:72:ARG:C	2.38	0.48
50:CW:69:GLY:O	50:CW:73:HIS:CE1	2.66	0.48
31:DA:19:C:H5''	35:DH:86:ALA:HB3	1.95	0.48
31:DA:191:G:C6	31:DA:192:U:C4	3.02	0.48
31:DA:542:G:N2	31:DA:543:C:C2	2.81	0.48
31:DA:616:G:C2	31:DA:617:G:N7	2.82	0.48
31:DA:1015:A:C6	31:DA:1016:A:C6	3.01	0.48
31:DA:1152:A:OP1	40:DM:68:HIS:CE1	2.66	0.48
31:DA:1378:C:C5	31:DA:1379:G:C1'	2.97	0.48
32:DE:19:HIS:CE1	32:DE:204:ASN:CB	2.88	0.48
32:DE:42:ILE:HD11	32:DE:202:PRO:CB	2.28	0.48
35:DH:69:VAL:O	35:DH:71:LEU:HG	2.14	0.48
39:DL:42:ARG:NH1	39:DL:71:SER:O	2.46	0.48
43:DP:110:ARG:CG	43:DP:110:ARG:NH1	2.68	0.48
45:DR:39:LEU:HG	45:DR:59:MET:HE1	1.96	0.48
47:DT:29:HIS:CG	47:DT:30:PRO:HD2	2.48	0.48
1:AA:600:G:H2'	1:AA:601:C:O4'	2.14	0.48
1:AA:1026:U:H1'	1:AA:1027:A:H5''	1.94	0.48
1:AA:1045:A:C2	1:AA:1111:A:C6	3.02	0.48
1:AA:1159:U:H2'	1:AA:1160:G:C8	2.49	0.48
1:AA:1208:C:C4	1:AA:1209:G:N7	2.81	0.48
1:AA:1477:A:C6	1:AA:1478:G:C5	3.02	0.48
1:AA:1735:C:H6	1:AA:1735:C:C5'	2.26	0.48
1:AA:1893:C:C5	1:AA:1894:C:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2097:C:C2'	1:AA:2098:U:H5'	2.43	0.48
1:AA:2164:C:OP2	1:AA:2166:G:N2	2.42	0.48
1:AA:2307:G:H1'	1:AA:2308:G:N2	2.28	0.48
1:AA:2492:U:H2'	1:AA:2493:U:C6	2.48	0.48
1:AA:2574:G:O2'	4:AE:143:ASN:HB3	2.14	0.48
2:AB:16:G:H2'	2:AB:17:C:H6	1.79	0.48
3:AD:27:THR:O	3:AD:28:GLU:OE1	2.31	0.48
3:AD:94:LEU:HD22	3:AD:94:LEU:C	2.37	0.48
3:AD:94:LEU:C	3:AD:94:LEU:CD2	2.86	0.48
5:AF:40:GLN:OE1	5:AF:184:TYR:CB	2.62	0.48
5:AF:206:ILE:HD12	5:AF:207:GLY:N	2.27	0.48
9:AM:39:ARG:HB3	9:AM:41:ASP:OD1	2.13	0.48
11:AO:50:ARG:O	11:AO:51:PHE:O	2.30	0.48
12:AP:115:MET:HE3	12:AP:131:ILE:HD12	1.95	0.48
21:AV:45:ASP:CG	21:AV:49:ARG:HE	2.21	0.48
28:A6:15:GLU:CD	28:A6:44:ARG:NH2	2.72	0.48
30:A8:17:THR:OG1	30:A8:21:LYS:HB2	2.13	0.48
30:A8:23:VAL:CG1	30:A8:46:ARG:HB3	2.43	0.48
1:BA:276:A:H2'	1:BA:277:C:H6	1.78	0.48
1:BA:722:A:OP2	1:BA:722:A:H8	1.97	0.48
1:BA:1016:G:H2'	1:BA:1017:G:H8	1.79	0.48
1:BA:1416:G:H1	1:BA:1582:C:H42	1.61	0.48
1:BA:1449:A:H5'	1:BA:1449(A):G:OP2	2.14	0.48
1:BA:1826:G:H2'	1:BA:1827:C:C6	2.49	0.48
1:BA:2507:C:O2'	52:DB:86:C:O2	2.31	0.48
1:BA:2555:U:C5	1:BA:2556:C:C2	3.02	0.48
1:BA:2838:G:C5	1:BA:2839:G:N7	2.81	0.48
2:BB:20:C:O2'	2:BB:21:G:H5'	2.12	0.48
5:BF:107:LYS:HD2	5:BF:107:LYS:N	2.29	0.48
6:BG:102:PHE:HE2	6:BG:141:PHE:HE1	1.61	0.48
8:BK:101:LEU:HD23	8:BK:101:LEU:N	2.26	0.48
14:BQ:67:ARG:HB2	14:BQ:67:ARG:NH1	2.28	0.48
15:BR:78:LEU:O	15:BR:78:LEU:HD23	2.14	0.48
17:B2:75:PHE:O	17:B2:76:LYS:O	2.32	0.48
31:CA:66:G:C2	31:CA:67:C:C6	3.02	0.48
31:CA:104:G:C2	31:CA:105:G:C8	3.02	0.48
31:CA:156:G:N2	31:CA:165:C:N3	2.48	0.48
31:CA:507:C:OP2	31:CA:508:C:O2'	2.25	0.48
31:CA:864:A:H5''	31:CA:865:A:OP2	2.13	0.48
31:CA:1023:G:N1	31:CA:1024:G:C8	2.81	0.48
31:CA:1237:C:O2	31:CA:1334:G:O2'	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:19:HIS:O	32:CE:39:ILE:HG12	2.13	0.48
32:CE:21:ARG:O	32:CE:21:ARG:HG2	2.13	0.48
32:CE:69:LEU:HD12	32:CE:70:PHE:H	1.78	0.48
32:CE:75:LYS:O	32:CE:75:LYS:HE3	2.13	0.48
34:CG:108:LEU:HB3	34:CG:110:PHE:HD1	1.75	0.48
38:CK:129:VAL:HG23	38:CK:130:GLY:N	2.21	0.48
45:CR:49:ASP:OD1	45:CR:49:ASP:C	2.56	0.48
46:CS:23:ASP:OD1	46:CS:25:ARG:HD3	2.14	0.48
52:CB:59:U:O2'	52:CB:70:G:H4'	2.13	0.48
31:DA:62:U:O2'	31:DA:379:C:H1'	2.14	0.48
31:DA:564:C:O2'	38:DK:91:ARG:NH2	2.46	0.48
31:DA:668:G:C2'	31:DA:669:U:H5'	2.44	0.48
31:DA:993:G:H4'	31:DA:994:A:OP1	2.14	0.48
31:DA:1053:G:C5	31:DA:1199:U:C5	3.01	0.48
31:DA:1213:A:C6	31:DA:1215:G:H1'	2.48	0.48
31:DA:1213:A:C5	31:DA:1215:G:C4	3.01	0.48
31:DA:1379:G:O2'	31:DA:1380:U:H5'	2.14	0.48
32:DE:115:LEU:HD21	32:DE:153:ARG:NH1	2.28	0.48
34:DG:162:LEU:O	34:DG:165:MET:HB2	2.14	0.48
36:DI:77:ARG:HB3	36:DI:77:ARG:NH1	2.29	0.48
40:DM:80:LYS:O	40:DM:83:GLU:HB3	2.14	0.48
52:DB:18:G:H8	52:DB:18:G:OP2	1.97	0.48
52:DB:55:G:H2'	52:DB:56:G:H8	1.77	0.48
53:DD:21:U:H3'	53:DD:22:A:C5'	2.43	0.48
1:AA:1045:A:C8	1:AA:1047:G:C2	3.02	0.48
1:AA:1063:G:H1	1:AA:1075:C:N4	2.10	0.48
1:AA:1545(A):A:H2'	1:AA:1546:C:H5'	1.96	0.48
1:AA:1565:C:C2	1:AA:1567:A:C8	3.01	0.48
1:AA:1680:U:O2	1:AA:1763:G:H3'	2.13	0.48
1:AA:2015:A:C1'	27:A5:2:ALA:CB	2.91	0.48
1:AA:2093:G:C6	1:AA:2225:A:C8	3.02	0.48
1:AA:2820:A:C5	13:A0:4:LEU:HD21	2.49	0.48
1:AA:2871:C:H5''	1:AA:2872:G:OP1	2.14	0.48
3:AD:35:LYS:CE	3:AD:65:ILE:HG22	2.43	0.48
6:AG:70:VAL:HA	6:AG:90:LEU:HD12	1.96	0.48
7:AH:105:LEU:HD23	7:AH:105:LEU:H	1.78	0.48
7:AH:115:VAL:HG11	7:AH:148:ILE:CG1	2.43	0.48
8:AK:14:ASP:O	8:AK:15:VAL:HG22	2.13	0.48
11:AO:61:ARG:HB2	11:AO:61:ARG:CZ	2.26	0.48
11:AO:83:VAL:HG12	11:AO:112:LEU:HD21	1.94	0.48
15:AR:22:PHE:CD2	15:AR:22:PHE:N	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:111:VAL:HG21	21:AV:174:VAL:HG11	1.95	0.48
26:A4:63:TYR:CD1	49:CV:42:PRO:HD3	2.49	0.48
29:A7:23:ARG:O	29:A7:28:ARG:NH1	2.47	0.48
1:BA:84:A:H2'	1:BA:99:U:O4	2.14	0.48
1:BA:154:G:H5'	1:BA:155:C:OP2	2.14	0.48
1:BA:292:C:O2'	1:BA:293:U:H5'	2.13	0.48
1:BA:311:A:C2	1:BA:331:A:H5''	2.42	0.48
1:BA:319:C:C2	1:BA:333:G:N2	2.82	0.48
1:BA:447:A:C8	1:BA:473:G:C6	3.02	0.48
1:BA:881:G:C6	1:BA:895:U:O2	2.67	0.48
1:BA:986:C:O2'	1:BA:987:G:H5'	2.14	0.48
1:BA:1140:C:H4'	1:BA:1143:A:N7	2.28	0.48
1:BA:1487:G:H1	1:BA:1502:C:H42	1.59	0.48
1:BA:1869:G:H5'	1:BA:1869:G:C8	2.48	0.48
1:BA:2331:G:H4'	22:B3:43:THR:N	2.28	0.48
1:BA:2531:A:H5''	7:BH:157:TYR:HE2	1.77	0.48
1:BA:2558:C:H2'	1:BA:2559:C:O4'	2.14	0.48
1:BA:2655:G:N2	1:BA:2665:A:OP2	2.46	0.48
5:BF:182:ASN:O	5:BF:186:ILE:HG12	2.14	0.48
6:BG:138:GLN:HE22	6:BG:153:ARG:H	1.62	0.48
12:BP:42:ILE:HD13	12:BP:97:VAL:CG2	2.43	0.48
14:BQ:27:SER:OG	14:BQ:88:ASP:CG	2.52	0.48
14:BQ:66:ALA:HA	14:BQ:69:VAL:HG12	1.95	0.48
14:BQ:89:ARG:HG3	14:BQ:92:TYR:O	2.14	0.48
14:BQ:106:ARG:H	14:BQ:106:ARG:HG3	1.41	0.48
15:BR:94:ALA:C	15:BR:96:ARG:H	2.22	0.48
17:B2:2:PHE:H	17:B2:42:GLY:HA3	1.78	0.48
21:BV:146:ILE:C	21:BV:148:ASP:H	2.22	0.48
25:BX:39:ASP:OD1	25:BX:44:ARG:NE	2.47	0.48
28:B6:41:PRO:HD2	28:B6:46:HIS:N	2.28	0.48
31:CA:80:G:O6	31:CA:89:U:O2	2.30	0.48
31:CA:329:A:C2	31:CA:332:G:C4	3.02	0.48
31:CA:1051:C:H2'	31:CA:1052:U:O4'	2.14	0.48
34:CG:172:PRO:HB2	34:CG:187:ARG:HH12	1.78	0.48
37:CJ:72:ARG:HG3	37:CJ:142:GLU:OE1	2.14	0.48
39:CL:47:LEU:H	39:CL:47:LEU:HD22	1.79	0.48
42:CO:14:LYS:HB3	42:CO:15:VAL:HG22	1.96	0.48
43:CP:67:GLU:CD	43:CP:68:GLY:H	2.19	0.48
46:CS:14:ASN:N	46:CS:15:PRO:HD3	2.29	0.48
47:CT:69:LYS:C	47:CT:70:ARG:HD2	2.39	0.48
49:CV:41:VAL:CG2	49:CV:67:VAL:HG22	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:15:A:N1	52:CB:70:G:C4	2.81	0.48
31:DA:324:G:OP1	50:DW:22:ARG:HD3	2.13	0.48
31:DA:333:G:H4'	50:DW:16:HIS:CE1	2.49	0.48
31:DA:458:C:C2	31:DA:464:G:C8	3.02	0.48
31:DA:1200:C:H5'	31:DA:1201:A:H5'	1.95	0.48
32:DE:142:LEU:O	32:DE:142:LEU:HD23	2.13	0.48
41:DN:81:ASP:OD2	41:DN:107:SER:OG	2.23	0.48
43:DP:5:ALA:O	43:DP:6:GLY:C	2.57	0.48
43:DP:78:ILE:HD13	43:DP:92:HIS:CD2	2.47	0.48
1:AA:270(O):U:H5''	1:AA:270(P):C:OP2	2.13	0.48
1:AA:588:U:H2'	1:AA:589:C:C6	2.49	0.48
1:AA:637:A:O5'	11:AO:116:GLY:HA3	2.14	0.48
1:AA:654(S):G:C4'	1:AA:654(T):A:OP1	2.62	0.48
1:AA:1192:G:C2'	1:AA:1193:G:H5'	2.44	0.48
1:AA:1810:A:H2'	1:AA:1811:G:O4'	2.14	0.48
1:AA:1919:A:O2'	31:CA:1517:G:N3	2.45	0.48
1:AA:2040:C:H2'	1:AA:2041:U:C6	2.48	0.48
1:AA:2168:G:H21	1:AA:2169:A:H3'	1.79	0.48
1:AA:2662:A:H2'	1:AA:2663:G:O4'	2.14	0.48
1:AA:2735:G:O2'	1:AA:2736:G:H5'	2.14	0.48
3:AD:172:TYR:HD1	3:AD:185:VAL:C	2.22	0.48
6:AG:112:PRO:HB3	26:A4:37:SER:OG	2.14	0.48
11:AO:2:LYS:O	11:AO:5:ASP:HB2	2.14	0.48
12:AP:63:LYS:HG2	12:AP:64:ILE:H	1.77	0.48
16:A1:92:ARG:C	16:A1:94:ASN:N	2.66	0.48
17:A2:25:LEU:H	17:A2:92:THR:HG23	1.77	0.48
26:A4:49:PHE:O	26:A4:50:VAL:HB	2.14	0.48
1:BA:288:C:C3'	1:BA:289:A:H8	2.27	0.48
1:BA:516:C:H2'	1:BA:517:C:H6	1.78	0.48
1:BA:653:A:H5''	1:BA:654:A:P	2.54	0.48
1:BA:654(M):C:H2'	1:BA:654(N):G:C8	2.49	0.48
1:BA:803:U:C2'	1:BA:804:A:H5'	2.44	0.48
1:BA:867:C:C4	1:BA:868:U:C5	3.02	0.48
1:BA:872:A:C2	1:BA:906:G:C4	3.02	0.48
1:BA:957:A:N1	1:BA:2459:A:C8	2.82	0.48
1:BA:1420:U:HO2'	1:BA:1421:G:P	2.31	0.48
1:BA:1588:C:H2'	1:BA:1588:C:O2	2.14	0.48
1:BA:1668:A:C2	1:BA:1670:C:N3	2.82	0.48
1:BA:1821:A:H2'	1:BA:1822:G:C8	2.49	0.48
1:BA:1993:U:H2'	1:BA:1994:C:O5'	2.13	0.48
1:BA:2062:A:H62	1:BA:2503:A:N6	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2275:C:H5'	1:BA:2275:C:C6	2.46	0.48
1:BA:2312:U:C2'	1:BA:2313:C:H5'	2.44	0.48
1:BA:2415:G:C4'	11:BO:66:GLY:HA3	2.43	0.48
4:BE:105:THR:HG21	4:BE:164:ARG:NE	2.28	0.48
5:BF:53:THR:HG22	5:BF:56:GLU:CD	2.38	0.48
5:BF:117:ARG:HH12	11:BO:1:MET:H2	1.60	0.48
6:BG:61:ALA:HA	6:BG:64:THR:CG2	2.44	0.48
8:BK:29:TYR:HD2	8:BK:30:LEU:HD23	1.77	0.48
12:BP:75:THR:CB	12:BP:88:GLY:HA3	2.36	0.48
14:BQ:3:ARG:CG	14:BQ:4:LEU:N	2.77	0.48
23:BZ:50:ARG:HG2	23:BZ:59:THR:OG1	2.13	0.48
23:BZ:82:LEU:HD23	23:BZ:82:LEU:H	1.79	0.48
31:CA:109:A:C6	31:CA:326:G:C6	3.02	0.48
31:CA:162:A:H3'	31:CA:163:C:H5''	1.95	0.48
31:CA:222:U:C2	31:CA:223:U:C5	3.01	0.48
31:CA:262:A:H2'	31:CA:263:A:C8	2.49	0.48
31:CA:350:G:C6	31:CA:351:G:O6	2.67	0.48
31:CA:939:G:H5''	37:CJ:102:ARG:CZ	2.44	0.48
31:CA:1032(B):G:C6	31:CA:1033:G:C6	3.02	0.48
31:CA:1060:C:P	44:CQ:45:ARG:HH22	2.36	0.48
31:CA:1156:G:C3'	31:CA:1157:A:H5''	2.43	0.48
34:CG:18:LYS:HD2	34:CG:31:CYS:HB2	1.95	0.48
35:CH:15:ARG:NH1	35:CH:26:PHE:CE2	2.82	0.48
45:CR:18:PHE:CE1	45:CR:21:ASP:HB2	2.49	0.48
50:CW:100:ILE:HG13	50:CW:101:GLY:H	1.79	0.48
53:CC:50:G:N2	53:CC:67:C:C2	2.81	0.48
53:CC:54:G:H2'	53:CC:55:U:H6	1.78	0.48
31:DA:339:C:O2'	31:DA:340:U:H5'	2.13	0.48
31:DA:562:C:H4'	31:DA:563:A:O5'	2.13	0.48
31:DA:838:G:C2'	31:DA:841:U:H5'	2.44	0.48
31:DA:838:G:N2	31:DA:849:C:C2	2.82	0.48
31:DA:1322:C:O2	31:DA:1322:C:C2'	2.62	0.48
33:DF:146:ALA:HB1	33:DF:203:PHE:O	2.14	0.48
41:DN:26:ASN:O	41:DN:27:ASN:HB2	2.13	0.48
47:DT:18:THR:CG2	47:DT:69:LYS:HD2	2.44	0.48
48:DU:19:LYS:HD3	48:DU:20:ALA:H	1.78	0.48
48:DU:22:VAL:HG12	48:DU:56:THR:HA	1.92	0.48
53:DC:44:A:O2'	53:DC:45:A:H5'	2.13	0.48
1:AA:821:A:O2'	1:AA:945:A:C5'	2.62	0.48
1:AA:1386:C:OP2	1:AA:1396:U:H5	1.97	0.48
1:AA:1727:U:C4	1:AA:1728:G:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2112:G:O2'	1:AA:2113:U:O2	2.32	0.48
1:AA:2258:C:H4'	1:AA:2259:G:OP2	2.14	0.48
2:AB:30:C:H2'	2:AB:31:C:C5'	2.44	0.48
2:AB:112:G:H2'	2:AB:113:C:H6	1.79	0.48
4:AE:35:GLN:NE2	4:AE:37:ARG:CD	2.76	0.48
4:AE:134:ILE:C	4:AE:134:ILE:CD1	2.87	0.48
6:AG:127:GLY:HA2	6:AG:166:ASP:OD2	2.13	0.48
7:AH:15:VAL:HG12	7:AH:29:PRO:HD2	1.95	0.48
8:AK:71:ILE:HG12	8:AK:71:ILE:O	2.13	0.48
10:AN:71:ARG:NH2	10:AN:77:ILE:HG21	2.29	0.48
13:A0:86:ARG:HB3	13:A0:118:GLU:OE1	2.14	0.48
20:AU:39:VAL:HG12	20:AU:40:GLU:N	2.29	0.48
25:AX:23:LEU:HD23	25:AX:50:VAL:HG11	1.95	0.48
27:A5:16:ARG:NH1	27:A5:17:ASP:OD1	2.45	0.48
1:BA:76:C:H2'	1:BA:77:C:C6	2.47	0.48
1:BA:945:A:OP2	1:BA:945:A:H4'	2.13	0.48
1:BA:1065:U:C4	1:BA:1066:U:C4	3.02	0.48
1:BA:1207:C:H2'	1:BA:1208:C:H6	1.78	0.48
1:BA:1408:C:C2	1:BA:1595:G:N2	2.82	0.48
1:BA:1495:A:C2'	1:BA:1496:A:H5'	2.44	0.48
1:BA:1893:C:C5	1:BA:1894:C:C4	3.02	0.48
1:BA:2387:U:H1'	22:B3:41:ARG:CD	2.44	0.48
1:BA:2563:U:H1'	1:BA:2566:A:N6	2.29	0.48
2:BB:88:C:OP1	2:BB:89:G:N7	2.47	0.48
3:BD:32:SER:HA	3:BD:35:LYS:O	2.13	0.48
3:BD:132:PRO:HD3	3:BD:190:TYR:CZ	2.48	0.48
4:BE:55:ASN:N	4:BE:56:PRO:CD	2.69	0.48
6:BG:125:PHE:CE2	6:BG:131:TYR:HB2	2.49	0.48
8:BK:31:LEU:N	8:BK:32:PRO:HD2	2.28	0.48
10:BN:73:ASP:OD1	10:BN:73:ASP:C	2.56	0.48
16:B1:97:ASP:OD2	16:B1:97:ASP:C	2.57	0.48
18:BS:83:LYS:O	18:BS:84:ARG:HD3	2.14	0.48
23:BZ:95:LEU:O	23:BZ:96:LYS:HG2	2.14	0.48
26:B4:11:PRO:HA	26:B4:25:TYR:N	2.26	0.48
31:CA:88:C:H2'	31:CA:89:U:N1	2.29	0.48
31:CA:143:A:H2	31:CA:220:G:N1	2.05	0.48
31:CA:627:G:H2'	31:CA:628:G:H8	1.78	0.48
31:CA:928:G:C2	31:CA:1390:U:O2	2.67	0.48
31:CA:980:C:H2'	31:CA:981:U:O4'	2.13	0.48
31:CA:1023:G:H3'	31:CA:1024:G:C5'	2.41	0.48
31:CA:1164:G:N1	31:CA:1173:G:C6	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:163:PHE:CD2	32:CE:185:ILE:HG12	2.49	0.48
32:CE:173:ALA:HA	32:CE:176:GLU:HB2	1.96	0.48
38:CK:94:TYR:CE1	38:CK:132:GLU:HB2	2.47	0.48
39:CL:17:VAL:HG11	39:CL:81:ILE:HD13	1.96	0.48
45:CR:21:ASP:CG	45:CR:24:SER:HB3	2.38	0.48
45:CR:55:GLY:HA2	45:CR:58:MET:CE	2.44	0.48
46:CS:40:ASP:OD2	46:CS:40:ASP:C	2.56	0.48
52:CB:18:G:H1	52:CB:71:U:H3	1.62	0.48
53:CC:19:G:C4'	53:CC:20:G:OP1	2.62	0.48
53:CC:54:G:O2'	53:CC:55:U:H5'	2.13	0.48
54:C1:20:U:H2'	54:C1:21:U:C6	2.49	0.48
31:DA:32:A:C2	31:DA:33:A:C5	3.01	0.48
31:DA:89:U:C4'	31:DA:90:C:OP1	2.61	0.48
31:DA:465:A:N7	31:DA:467:G:C5	2.82	0.48
31:DA:1056:U:H5'	33:DF:163:ALA:HB2	1.96	0.48
31:DA:1221:G:H4'	49:DV:77:THR:HG21	1.96	0.48
31:DA:1258:G:O2'	31:DA:1259:C:H5'	2.14	0.48
31:DA:1399:C:C2	31:DA:1401:G:C5	3.02	0.48
32:DE:158:LEU:HD23	32:DE:182:ILE:HD11	1.95	0.48
34:DG:23:GLY:O	34:DG:27:TYR:CD1	2.67	0.48
38:DK:11:THR:HG23	38:DK:14:ARG:NH1	2.29	0.48
40:DM:24:VAL:HG13	40:DM:28:ARG:HH21	1.79	0.48
43:DP:81:LEU:HD13	43:DP:88:ARG:NH1	2.29	0.48
43:DP:116:THR:O	43:DP:117:VAL:C	2.55	0.48
49:DV:46:GLY:HA2	49:DV:61:TYR:CE1	2.49	0.48
1:AA:59:U:O2'	1:AA:73:A:H2'	2.13	0.47
1:AA:444:C:H4'	5:AF:49:ALA:HB2	1.96	0.47
1:AA:528:A:N1	1:AA:2043:C:O5'	2.47	0.47
1:AA:747:U:OP2	27:A5:3:LYS:HD3	2.14	0.47
1:AA:812:C:H5''	1:AA:1250:G:O2'	2.14	0.47
1:AA:847:U:C5	1:AA:933:A:N1	2.82	0.47
1:AA:1013:C:O2'	1:AA:1014:U:H5'	2.14	0.47
1:AA:1144:G:C6	1:AA:1145:C:N4	2.82	0.47
1:AA:1161:C:H1'	17:A2:8:GLY:O	2.14	0.47
1:AA:1503:U:H2'	1:AA:1504:C:H6	1.79	0.47
1:AA:1519:G:H2'	1:AA:1520:U:O4'	2.14	0.47
1:AA:2017:U:H5''	1:AA:2018:G:OP2	2.14	0.47
1:AA:2141:G:H2'	1:AA:2142:C:C6	2.49	0.47
1:AA:2157:G:O2'	1:AA:2158:A:P	2.68	0.47
1:AA:2173:A:OP1	1:AA:2173:A:C8	2.67	0.47
12:AP:77:LYS:HD3	12:AP:81:VAL:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:137:TYR:C	12:AP:139:GLU:H	2.22	0.47
13:A0:70:LEU:O	13:A0:72:ASP:N	2.47	0.47
14:AQ:70:GLY:HA2	14:AQ:101:LEU:CD1	2.43	0.47
16:A1:66:ASN:HD21	16:A1:70:ARG:NE	2.12	0.47
18:AS:44:ALA:O	18:AS:45:TYR:C	2.55	0.47
20:AU:43:ASN:HB3	20:AU:64:GLU:HA	1.96	0.47
1:BA:360:G:C2'	1:BA:361:G:H5'	2.44	0.47
1:BA:362:U:H3'	1:BA:362:U:C6	2.47	0.47
1:BA:414:C:O2'	1:BA:415:A:H5'	2.14	0.47
1:BA:414:C:H4'	1:BA:1879:C:O2	2.14	0.47
1:BA:1157:G:C2'	1:BA:1158:C:H5'	2.43	0.47
1:BA:2212:A:H1'	1:BA:2215:G:C5	2.49	0.47
1:BA:2517:C:N3	1:BA:2542:A:N6	2.62	0.47
1:BA:2638:G:P	4:BE:82:ARG:NH2	2.87	0.47
1:BA:2666:C:H2'	1:BA:2667:C:O4'	2.14	0.47
1:BA:2872:G:C6	1:BA:2873:A:N1	2.82	0.47
4:BE:21:VAL:HA	4:BE:22:PRO:HD2	1.81	0.47
5:BF:25:PRO:C	5:BF:27:GLU:N	2.70	0.47
12:BP:42:ILE:HG21	12:BP:47:ILE:HG13	1.96	0.47
13:B0:52:ILE:O	13:B0:55:ALA:N	2.47	0.47
16:B1:79:PHE:CZ	16:B1:83:LEU:HD13	2.49	0.47
17:B2:73:SER:HB2	17:B2:82:ARG:O	2.14	0.47
27:B5:46:CYS:SG	27:B5:47:PRO:HD2	2.54	0.47
31:CA:46:G:O2'	31:CA:365:U:H1'	2.14	0.47
31:CA:491:G:C4	31:CA:492:G:C8	3.02	0.47
31:CA:901:A:C5	31:CA:902:G:H1'	2.48	0.47
31:CA:1107:C:C4	31:CA:1108:G:C8	3.02	0.47
31:CA:1157:A:N6	31:CA:1180:A:C5	2.82	0.47
31:CA:1164:G:H2'	31:CA:1165:C:C6	2.49	0.47
31:CA:1298:C:C4'	31:CA:1299:A:C4	2.97	0.47
32:CE:212:GLN:HG3	32:CE:235:SER:HB2	1.94	0.47
34:CG:138:TYR:CE2	34:CG:139:ARG:O	2.67	0.47
39:CL:104:ARG:HG2	39:CL:105:ASP:N	2.29	0.47
41:CN:21:ILE:HG12	41:CN:30:VAL:CG1	2.43	0.47
31:DA:78:G:H2'	31:DA:79:G:O4'	2.14	0.47
31:DA:134:A:H61	46:DS:25:ARG:NH1	2.12	0.47
31:DA:328:C:C2'	31:DA:329:A:OP2	2.61	0.47
31:DA:860:A:H2'	31:DA:861:G:O4'	2.12	0.47
31:DA:1054:C:C5	31:DA:1196:U:C5	3.02	0.47
32:DE:12:GLU:O	32:DE:13:ALA:C	2.56	0.47
32:DE:28:PHE:CE2	32:DE:189:ASP:O	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DF:98:ASN:C	33:DF:98:ASN:ND2	2.72	0.47
34:DG:19:LEU:O	34:DG:21:LEU:HG	2.14	0.47
34:DG:62:GLN:HA	34:DG:62:GLN:NE2	2.29	0.47
35:DH:57:LYS:O	35:DH:61:TYR:HD2	1.97	0.47
37:DJ:86:GLN:HE22	53:DD:32:G:H21	1.62	0.47
51:DX:6:ARG:HE	51:DX:15:ARG:NH2	2.12	0.47
1:AA:1050:A:O2'	1:AA:2752:C:H1'	2.14	0.47
1:AA:1567:A:C5'	3:AD:58:HIS:CD2	2.97	0.47
1:AA:1638:C:H4'	1:AA:2710:C:O2	2.14	0.47
1:AA:1664:A:C6	1:AA:1665:A:C6	3.02	0.47
1:AA:1856:G:C2'	1:AA:1857:G:H5'	2.43	0.47
1:AA:2017:U:H5''	1:AA:2018:G:P	2.54	0.47
1:AA:2314:C:H2'	1:AA:2315:G:H8	1.79	0.47
1:AA:2407:G:H2'	1:AA:2407:G:N3	2.29	0.47
1:AA:2467:C:O4'	12:AP:123:HIS:CG	2.67	0.47
1:AA:2790:A:C2	1:AA:2894:G:H5''	2.49	0.47
4:AE:11:MET:HG2	4:AE:24:THR:OG1	2.14	0.47
7:AH:152:ARG:O	7:AH:153:LYS:HB2	2.13	0.47
8:AK:132:PRO:O	8:AK:133:HIS:CG	2.67	0.47
9:AM:93:THR:HG23	9:AM:94:HIS:N	2.29	0.47
14:AQ:35:ILE:HD11	14:AQ:101:LEU:CD2	2.44	0.47
14:AQ:106:ARG:O	14:AQ:107:GLU:HB3	2.14	0.47
21:AV:1:MET:CE	21:AV:135:GLU:HB3	2.27	0.47
21:AV:142:SER:HB3	21:AV:143:GLY:CA	2.44	0.47
1:BA:247:G:H4'	1:BA:386:G:C6	2.48	0.47
1:BA:605:C:O2	1:BA:657:U:O2'	2.27	0.47
1:BA:607:U:O2	1:BA:621:A:N1	2.46	0.47
1:BA:627:A:H4'	1:BA:628:G:OP1	2.12	0.47
1:BA:686:G:O6	29:B7:12:ARG:HG3	2.14	0.47
1:BA:766:C:H2'	1:BA:767:U:H6	1.79	0.47
1:BA:1085:A:H4'	1:BA:1086:A:OP1	2.14	0.47
1:BA:1133:U:H2'	1:BA:1137:G:OP1	2.14	0.47
1:BA:1204:A:N1	1:BA:1241:A:C2	2.81	0.47
1:BA:1284:A:H3'	1:BA:1285:G:C8	2.49	0.47
1:BA:1945:G:C4	1:BA:1946:U:C5	3.02	0.47
1:BA:2148:G:H2'	1:BA:2149:G:C8	2.43	0.47
1:BA:2420:C:N4	30:B8:31:HIS:CB	2.67	0.47
1:BA:2600:A:C6	1:BA:2601:C:N4	2.82	0.47
1:BA:2847:U:C3'	1:BA:2848:G:H5'	2.44	0.47
4:BE:56:PRO:CG	4:BE:57:LYS:HZ1	2.20	0.47
4:BE:137:HIS:HB3	4:BE:138:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BG:104:GLU:HG2	26:B4:23:GLU:CG	2.44	0.47
7:BH:41:MET:O	7:BH:42:ARG:HB3	2.12	0.47
7:BH:89:ILE:HG21	7:BH:129:THR:HA	1.95	0.47
10:BN:3:GLN:HB2	10:BN:4:PRO:HD2	1.96	0.47
11:BO:3:LEU:HA	11:BO:6:LEU:HD22	1.95	0.47
11:BO:23:PRO:C	11:BO:25:SER:N	2.69	0.47
12:BP:7:MET:HB3	12:BP:10:ARG:NH1	2.29	0.47
21:BV:148:ASP:O	21:BV:149:SER:HB3	2.14	0.47
26:B4:12:ALA:N	26:B4:24:THR:HG21	2.26	0.47
28:B6:31:PRO:HB2	28:B6:33:LYS:H	1.78	0.47
31:CA:67:C:O2	31:CA:68:G:C8	2.67	0.47
31:CA:338:A:C6	31:CA:339:C:C4	3.01	0.47
31:CA:584:G:H2'	31:CA:585:G:C8	2.50	0.47
31:CA:943:U:C1'	39:CL:124:GLN:HE22	2.27	0.47
31:CA:1242:C:O2'	31:CA:1243:C:H5'	2.14	0.47
31:CA:1348:U:O3'	39:CL:120:ARG:HB2	2.14	0.47
33:CF:69:HIS:N	33:CF:69:HIS:CD2	2.82	0.47
38:CK:121:ASP:O	38:CK:125:ARG:HB2	2.14	0.47
39:CL:9:ARG:HB2	39:CL:13:ALA:O	2.14	0.47
40:CM:61:GLU:OE2	44:CQ:45:ARG:HD2	2.14	0.47
41:CN:80:VAL:HG13	41:CN:103:LEU:HD12	1.95	0.47
48:CU:19:LYS:HB3	48:CU:20:ALA:H	1.49	0.47
31:DA:509:A:N3	31:DA:543:C:O2'	2.39	0.47
31:DA:870:U:H4'	31:DA:871:U:H5''	1.96	0.47
31:DA:1112:C:N3	33:DF:178:LEU:HB2	2.28	0.47
31:DA:1127:G:H2'	31:DA:1128:C:C6	2.49	0.47
31:DA:1177:G:C4	31:DA:1178:G:N2	2.82	0.47
31:DA:1298:C:C6	37:DJ:114:ARG:NH1	2.82	0.47
32:DE:74:LYS:HG3	32:DE:75:LYS:H	1.79	0.47
34:DG:70:ILE:HG12	34:DG:71:SER:N	2.30	0.47
43:DP:76:ALA:HA	43:DP:79:LYS:HB2	1.96	0.47
52:DB:44:G:C6	52:DB:45:U:N3	2.82	0.47
53:DC:15:G:H2'	53:DC:60:A:N1	2.29	0.47
53:DD:22:A:N1	53:DD:47:G:H2'	2.28	0.47
1:AA:444:C:C4'	5:AF:49:ALA:HB2	2.44	0.47
1:AA:527:C:OP2	1:AA:2779:U:C5	2.67	0.47
1:AA:1265:A:H3'	27:A5:19:ARG:NH1	2.29	0.47
1:AA:1678:G:H22	1:AA:1989:G:H22	1.56	0.47
1:AA:1795:C:H2'	1:AA:1796:U:C6	2.45	0.47
3:AD:27:THR:O	3:AD:28:GLU:CB	2.56	0.47
4:AE:48:GLN:NE2	4:AE:77:ILE:HD12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:16:ARG:NH2	6:AG:31:VAL:HG13	2.28	0.47
7:AH:109:PHE:CE2	7:AH:152:ARG:NH1	2.82	0.47
8:AK:144:VAL:CG2	8:AK:145:VAL:N	2.77	0.47
10:AN:31:LYS:HB3	10:AN:32:TYR:CE1	2.49	0.47
12:AP:25:ASP:O	12:AP:25:ASP:OD1	2.32	0.47
18:AS:45:TYR:C	18:AS:45:TYR:CD2	2.91	0.47
20:AU:76:CYS:CB	20:AU:96:ILE:CD1	2.90	0.47
21:AV:174:VAL:O	21:AV:175:VAL:HG13	2.14	0.47
22:A3:25:ARG:HA	22:A3:29:GLN:HE22	1.80	0.47
23:AZ:80:LEU:HD22	23:AZ:80:LEU:N	2.29	0.47
28:A6:9:LEU:HB3	28:A6:26:ASN:O	2.14	0.47
1:BA:7:G:H1	1:BA:2896:C:H42	1.59	0.47
1:BA:228:A:H2'	1:BA:230:U:O4'	2.14	0.47
1:BA:270(N):G:C2'	1:BA:270(O):U:H5'	2.44	0.47
1:BA:1036:G:P	7:BH:59:ARG:HB2	2.54	0.47
1:BA:1060:U:O4'	1:BA:1062:G:H5'	2.14	0.47
1:BA:1061:U:H4'	1:BA:1070:A:O2'	2.15	0.47
1:BA:1462:C:H2'	1:BA:1463:C:H6	1.78	0.47
1:BA:1542:G:H5''	1:BA:1543:A:O5'	2.13	0.47
1:BA:1884:A:C2	1:BA:1885:A:C8	3.02	0.47
1:BA:2016:U:O4'	27:B5:6:VAL:HG11	2.14	0.47
1:BA:2126:A:H4'	1:BA:2127:G:OP1	2.12	0.47
1:BA:2197:U:O2'	1:BA:2198:A:H2'	2.14	0.47
1:BA:2372:G:C4'	28:B6:46:HIS:HE1	2.23	0.47
1:BA:2415:G:H4'	11:BO:66:GLY:C	2.39	0.47
3:BD:71:ASP:N	3:BD:71:ASP:OD2	2.47	0.47
4:BE:33:VAL:HA	4:BE:49:LEU:HA	1.96	0.47
8:BK:123:LEU:HD22	8:BK:143:SER:CB	2.44	0.47
9:BM:120:LEU:HD21	9:BM:122:VAL:CG2	2.44	0.47
11:BO:52:GLU:OE2	11:BO:58:THR:N	2.44	0.47
15:BR:74:ARG:HH11	15:BR:74:ARG:CG	1.88	0.47
16:B1:93:LYS:HA	16:B1:96:ALA:HB3	1.96	0.47
19:BT:53:LYS:HZ2	19:BT:55:ASN:HD21	1.62	0.47
24:BW:46:GLN:HB2	24:BW:49:LYS:HZ1	1.80	0.47
31:CA:73:G:C2	31:CA:74:C:C5	3.02	0.47
31:CA:677:U:H1'	41:CN:119:CYS:SG	2.54	0.47
31:CA:870:U:H5''	31:CA:871:U:H3'	1.96	0.47
31:CA:1372:U:H2'	31:CA:1373:G:O5'	2.14	0.47
32:CE:109:SER:O	32:CE:112:VAL:HB	2.13	0.47
34:CG:19:LEU:HD23	34:CG:21:LEU:HD12	1.96	0.47
47:CT:13:ASP:HA	47:CT:19:VAL:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:67:LYS:CA	47:CT:70:ARG:HH12	2.18	0.47
47:CT:76:LEU:HD12	47:CT:78:GLU:N	2.28	0.47
49:CV:18:LYS:NZ	49:CV:29:ARG:NH1	2.63	0.47
53:CC:22:A:H5''	53:CC:23:G:OP1	2.13	0.47
53:CD:14:A:OP1	53:CD:14:A:C8	2.67	0.47
31:DA:857:C:H2'	31:DA:858:G:O4'	2.14	0.47
31:DA:1129:C:H4'	31:DA:1130:A:C5'	2.44	0.47
31:DA:1256:A:H62	31:DA:1277:C:H3'	1.79	0.47
31:DA:1281:U:H3'	31:DA:1282:C:C5	2.49	0.47
31:DA:1449:C:O2'	31:DA:1450:U:P	2.71	0.47
32:DE:71:VAL:HG11	32:DE:97:TRP:HD1	1.76	0.47
32:DE:80:ILE:HD13	32:DE:212:GLN:HA	1.96	0.47
35:DH:83:GLU:CB	35:DH:88:LYS:HG3	2.30	0.47
37:DJ:73:MET:HE2	37:DJ:90:GLU:HG3	1.96	0.47
46:DS:8:ARG:HD2	46:DS:17:TYR:CE2	2.50	0.47
48:DU:87:ARG:HD3	48:DU:87:ARG:HA	1.50	0.47
50:DW:56:MET:CE	50:DW:104:LEU:HD11	2.43	0.47
53:DD:7:G:H3'	53:DD:8:U:C5'	2.45	0.47
54:D1:16:A:C2	54:D1:17:U:C2	3.02	0.47
1:AA:90:U:H1'	1:AA:91:A:N7	2.30	0.47
1:AA:221:A:C4	1:AA:266:G:N7	2.82	0.47
1:AA:265:A:H1'	1:AA:266:G:O4'	2.13	0.47
1:AA:606:U:H4'	1:AA:658:C:H4'	1.95	0.47
1:AA:616:A:C8	5:AF:176:LEU:HD11	2.49	0.47
1:AA:971:C:H2'	1:AA:972:G:O4'	2.14	0.47
1:AA:1079:C:N4	1:AA:1080:A:C6	2.81	0.47
1:AA:1317:A:H2'	1:AA:1318:C:H6	1.80	0.47
1:AA:1614:A:N6	18:AS:88:ARG:H	2.13	0.47
1:AA:2020:A:O2'	1:AA:2021:C:H5'	2.14	0.47
1:AA:2291:U:H2'	1:AA:2292:C:C6	2.49	0.47
1:AA:2888:C:O2'	1:AA:2889:C:H5'	2.14	0.47
2:AB:15:A:OP1	2:AB:15:A:H4'	2.13	0.47
3:AD:35:LYS:HE2	3:AD:65:ILE:HG22	1.96	0.47
4:AE:1:MET:HB3	4:AE:200:GLU:CD	2.38	0.47
4:AE:20:ALA:C	4:AE:21:VAL:CG1	2.87	0.47
5:AF:67:GLN:O	5:AF:67:GLN:CG	2.47	0.47
7:AH:43:VAL:CG1	7:AH:52:VAL:HG22	2.40	0.47
8:AK:101:LEU:HA	8:AK:104:GLN:HB2	1.94	0.47
10:AN:7:TYR:C	10:AN:8:LEU:HD22	2.38	0.47
11:AO:65:ARG:HH11	11:AO:65:ARG:CG	1.94	0.47
12:AP:75:THR:HB	12:AP:89:ASN:N	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:90:VAL:O	12:AP:90:VAL:HG13	2.12	0.47
17:A2:44:LYS:HE3	17:A2:44:LYS:HB3	1.56	0.47
19:AT:21:PHE:O	19:AT:23:GLU:O	2.32	0.47
21:AV:26:GLY:HA2	21:AV:85:HIS:CD2	2.50	0.47
21:AV:151:HIS:HD2	21:AV:168:GLU:CG	2.27	0.47
24:AW:23:LYS:O	24:AW:27:GLU:HG3	2.14	0.47
1:BA:389:G:H22	11:BO:72:PRO:HD3	1.79	0.47
1:BA:548:A:H8	1:BA:548:A:O5'	1.97	0.47
1:BA:572:A:C2	1:BA:2033:A:C2	3.02	0.47
1:BA:953:A:N3	1:BA:954:G:C8	2.82	0.47
1:BA:1149:G:C6	1:BA:1150:C:N4	2.82	0.47
1:BA:2271:G:OP1	22:B3:18:ALA:HB1	2.14	0.47
1:BA:2322:A:H2'	1:BA:2323:G:O4'	2.14	0.47
1:BA:2402:C:H41	1:BA:2416:C:H1'	1.79	0.47
1:BA:2526:G:C2	1:BA:2538:C:O2	2.67	0.47
1:BA:2854:G:N2	1:BA:2864:G:N3	2.62	0.47
1:BA:2895:U:H2'	1:BA:2896:C:O4'	2.14	0.47
2:BB:40:U:C2'	2:BB:45:A:H61	2.28	0.47
4:BE:26:ILE:HB	4:BE:182:LEU:HB3	1.95	0.47
7:BH:107:VAL:CG1	7:BH:152:ARG:HH21	2.26	0.47
19:BT:67:GLY:C	19:BT:69:TYR:N	2.72	0.47
31:CA:60:A:H8	31:CA:60:A:P	2.38	0.47
31:CA:236:G:H5''	47:CT:42:TYR:OH	2.14	0.47
31:CA:386:C:C2'	31:CA:387:U:H5'	2.45	0.47
31:CA:1004:A:H1'	31:CA:1036:G:H1	1.74	0.47
31:CA:1095:U:OP1	31:CA:1108:G:N2	2.32	0.47
31:CA:1175:G:C6	31:CA:1176:A:N6	2.83	0.47
33:CF:58:GLU:O	33:CF:59:ARG:HG3	2.15	0.47
34:CG:134:ASP:O	34:CG:136:PRO:HD3	2.15	0.47
35:CH:69:VAL:O	35:CH:71:LEU:N	2.45	0.47
36:CI:63:TYR:N	36:CI:63:TYR:CD2	2.82	0.47
36:CI:75:LEU:HD22	36:CI:79:LEU:HG	1.95	0.47
43:CP:53:VAL:HG12	43:CP:57:ARG:HH12	1.78	0.47
43:CP:58:GLU:O	43:CP:62:ASN:HB2	2.13	0.47
44:CQ:45:ARG:NH1	44:CQ:49:HIS:CE1	2.78	0.47
45:CR:82:ILE:HG12	45:CR:87:ILE:HB	1.97	0.47
31:DA:147:G:N2	31:DA:148:G:C4	2.82	0.47
31:DA:386:C:O2'	31:DA:387:U:H5'	2.14	0.47
31:DA:408:A:H2'	31:DA:409:G:O4'	2.14	0.47
31:DA:577:G:C8	31:DA:816:A:C6	3.02	0.47
31:DA:707:C:H2'	31:DA:708:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:923:A:N6	31:DA:1392:G:O6	2.48	0.47
31:DA:1158:C:C6	31:DA:1160:G:C8	3.01	0.47
34:DG:73:ARG:HD2	34:DG:73:ARG:HA	1.70	0.47
38:DK:58:TYR:O	38:DK:59:LEU:HD23	2.15	0.47
39:DL:5:TYR:HD2	39:DL:18:PHE:CE2	2.30	0.47
39:DL:70:LYS:O	39:DL:74:ILE:HG13	2.15	0.47
42:DO:53:ARG:HH12	42:DO:92:ASP:HB3	1.80	0.47
43:DP:53:VAL:HG12	43:DP:57:ARG:NH2	2.29	0.47
45:DR:78:TYR:O	45:DR:82:ILE:HG23	2.14	0.47
47:DT:68:ARG:N	47:DT:70:ARG:NH1	2.63	0.47
53:DC:23:G:H2'	53:DC:24:C:H6	1.78	0.47
53:DC:54:G:H2'	53:DC:55:U:H6	1.80	0.47
53:DD:5:G:H1	53:DD:69:C:N4	2.12	0.47
1:AA:482:A:H5''	1:AA:483:A:OP1	2.14	0.47
1:AA:541:C:N3	1:AA:542:C:C5	2.83	0.47
1:AA:618:G:H2'	1:AA:618(A):C:O4'	2.14	0.47
1:AA:841:A:H2'	1:AA:842:G:H8	1.77	0.47
1:AA:1056:G:C4'	1:AA:1086:A:C8	2.98	0.47
1:AA:1170:G:N2	1:AA:1180:C:C2	2.82	0.47
1:AA:1298:C:C5'	1:AA:1299:G:OP2	2.63	0.47
1:AA:1397:U:OP2	1:AA:1398:C:N4	2.41	0.47
1:AA:2124:G:H2'	1:AA:2125:G:H5'	1.96	0.47
1:AA:2252:G:H2'	1:AA:2253:G:O4'	2.13	0.47
1:AA:2502:G:H5''	1:AA:2503:A:C5'	2.41	0.47
1:AA:2681:C:O2'	1:AA:2682:U:OP2	2.30	0.47
1:AA:2726:U:O2'	1:AA:2727:G:H8	1.98	0.47
3:AD:76:PRO:HG2	3:AD:98:VAL:CG2	2.43	0.47
6:AG:112:PRO:HB3	26:A4:37:SER:H	1.78	0.47
10:AN:12:ASP:CG	10:AN:14:THR:HG23	2.39	0.47
11:AO:6:LEU:O	11:AO:7:ARG:HG2	2.15	0.47
12:AP:87:LYS:HG3	12:AP:88:GLY:N	2.27	0.47
13:A0:54:LEU:HA	13:A0:54:LEU:HD12	1.68	0.47
16:A1:69:CYS:SG	16:A1:79:PHE:CD1	2.98	0.47
16:A1:92:ARG:CZ	17:A2:11:GLN:O	2.62	0.47
18:AS:73:ALA:HB3	18:AS:106:ILE:CD1	2.44	0.47
19:AT:82:GLN:HE21	19:AT:83:VAL:N	2.13	0.47
22:A3:50:ASN:HB2	22:A3:81:VAL:O	2.15	0.47
22:A3:52:GLY:O	22:A3:59:LEU:HA	2.15	0.47
23:AZ:78:LYS:O	23:AZ:80:LEU:HD13	2.13	0.47
23:AZ:92:LYS:O	23:AZ:93:GLU:C	2.55	0.47
24:AW:59:ARG:O	24:AW:62:THR:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:54:G:O2'	29:B7:35:ARG:HD3	2.15	0.47
1:BA:218:A:C2	1:BA:235:U:H4'	2.49	0.47
1:BA:288:C:H5'	1:BA:289:A:OP1	2.15	0.47
1:BA:363(F):A:H8	1:BA:363(F):A:OP2	1.98	0.47
1:BA:439:G:N2	1:BA:440:G:C4	2.83	0.47
1:BA:581:C:H2'	1:BA:582:G:C8	2.50	0.47
1:BA:674:G:H2'	1:BA:804:A:H61	1.79	0.47
1:BA:748:G:C8	18:BS:89:ALA:HB1	2.49	0.47
1:BA:1109:C:C5	1:BA:1110:G:C6	3.03	0.47
1:BA:2187:G:C6	1:BA:2188:C:C4	3.03	0.47
1:BA:2377:A:O2'	1:BA:2378:A:H5'	2.15	0.47
1:BA:2393:A:C2'	1:BA:2394:C:H5'	2.44	0.47
1:BA:2602:A:H4'	1:BA:2603:G:O5'	2.13	0.47
1:BA:2713:A:C3'	1:BA:2714:G:C5'	2.92	0.47
5:BF:3:GLU:HG2	5:BF:3:GLU:O	2.14	0.47
6:BG:62:LEU:O	6:BG:143:GLU:HG2	2.14	0.47
8:BK:110:ASP:O	8:BK:111:PRO:C	2.53	0.47
20:BU:72:VAL:O	20:BU:73:ARG:HG3	2.14	0.47
31:CA:191(F):U:H3'	31:CA:191(F):U:H6	1.80	0.47
31:CA:691:G:H1'	31:CA:696:A:N6	2.30	0.47
31:CA:724:G:C2	31:CA:725:G:C8	3.02	0.47
31:CA:857:C:C5	31:CA:858:G:N7	2.83	0.47
31:CA:993:G:H4'	31:CA:994:A:OP2	2.14	0.47
31:CA:1223:C:H3'	31:CA:1224:G:H5''	1.96	0.47
31:CA:1347:G:N2	31:CA:1374:A:OP2	2.42	0.47
31:CA:1513:A:H2'	31:CA:1514:C:C6	2.50	0.47
32:CE:69:LEU:HB3	32:CE:162:ILE:HG22	1.96	0.47
36:CI:55:ASP:CB	36:CI:86:ARG:HH12	2.27	0.47
41:CN:79:SER:CB	41:CN:106:LYS:HD2	2.32	0.47
46:CS:4:ILE:HB	46:CS:66:PRO:HB3	1.96	0.47
49:CV:45:VAL:HA	49:CV:62:ILE:HG22	1.97	0.47
52:CB:73:C:H2'	52:CB:74:C:O4'	2.14	0.47
31:DA:24:U:H2'	31:DA:25:C:C6	2.50	0.47
31:DA:66:G:C2	31:DA:67:C:C6	3.02	0.47
31:DA:340:U:H2'	31:DA:341:C:H6	1.79	0.47
31:DA:464:G:N2	31:DA:467:G:C8	2.81	0.47
31:DA:528:C:H4'	31:DA:535:A:C5	2.50	0.47
31:DA:848:C:O5'	31:DA:848:C:H6	1.97	0.47
31:DA:1107:C:C4	31:DA:1108:G:C8	3.02	0.47
34:DG:11:LEU:O	34:DG:12:CYS:C	2.57	0.47
39:DL:88:TYR:HB3	39:DL:89:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DO:110:VAL:CG2	42:DO:120:TYR:HB3	2.45	0.47
43:DP:37:THR:O	43:DP:55:ARG:NH2	2.47	0.47
49:DV:66:MET:HA	49:DV:67:VAL:HB	1.96	0.47
50:DW:53:LEU:CD1	50:DW:102:GLY:HA3	2.45	0.47
50:DW:92:LEU:O	50:DW:95:ALA:HB3	2.13	0.47
52:DB:50:A:C2	52:DB:52:U:H5'	2.49	0.47
1:AA:442:G:C4	1:AA:444:C:C5	3.02	0.47
1:AA:1056:G:O6	1:AA:1104:C:N4	2.48	0.47
1:AA:1155:A:O2'	1:AA:1156:A:H2'	2.14	0.47
1:AA:1735:C:H2'	1:AA:1741:C:O4'	2.15	0.47
1:AA:1788:C:O5'	1:AA:1788:C:H6	1.97	0.47
1:AA:2372:G:C1'	28:A6:46:HIS:HE2	2.27	0.47
1:AA:2459:A:C4	1:AA:2460:U:C6	3.03	0.47
2:AB:29:A:C2	2:AB:56:G:C2	3.03	0.47
6:AG:82:LEU:HD23	6:AG:86:MET:HE3	1.97	0.47
6:AG:94:LEU:HD23	6:AG:94:LEU:N	2.25	0.47
7:AH:86:GLU:HG2	7:AH:87:LEU:H	1.80	0.47
7:AH:152:ARG:HB3	7:AH:153:LYS:HZ3	1.79	0.47
8:AK:98:ALA:HB2	8:AK:111:PRO:HB3	1.96	0.47
16:A1:92:ARG:O	16:A1:93:LYS:C	2.58	0.47
17:A2:81:TYR:C	17:A2:82:ARG:HD2	2.40	0.47
21:AV:166:SER:HA	21:AV:167:PRO:HD3	1.72	0.47
30:A8:23:VAL:HG11	30:A8:46:ARG:HD3	1.97	0.47
1:BA:49:A:H5'	1:BA:51:G:O4'	2.14	0.47
1:BA:270(E):G:H1	1:BA:270(U):C:H42	1.61	0.47
1:BA:1011:G:C6	1:BA:1013:C:C4	3.03	0.47
1:BA:1019:U:H3	1:BA:1142(A):A:H62	1.61	0.47
1:BA:1055:G:O2'	1:BA:1085:A:N1	2.44	0.47
1:BA:1125:G:C6	1:BA:1126:A:N6	2.83	0.47
1:BA:1525:G:C2	1:BA:1526:G:C4	3.02	0.47
1:BA:2131:G:H5'	1:BA:2132:U:OP1	2.14	0.47
1:BA:2713:A:H3'	1:BA:2714:G:C5'	2.45	0.47
3:BD:27:THR:O	3:BD:28:GLU:CB	2.61	0.47
3:BD:45:ASN:OD1	3:BD:45:ASN:C	2.55	0.47
3:BD:107:ALA:O	3:BD:196:VAL:O	2.31	0.47
3:BD:131:LEU:HD12	3:BD:131:LEU:N	2.29	0.47
4:BE:111:ARG:HD2	4:BE:160:TYR:CE1	2.50	0.47
5:BF:4:VAL:HG22	5:BF:19:GLU:OE1	2.14	0.47
6:BG:45:GLU:H	6:BG:45:GLU:HG2	1.39	0.47
9:BM:96:GLU:CD	9:BM:96:GLU:H	2.23	0.47
14:BQ:28:VAL:HG11	14:BQ:98:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BR:29:ARG:HH11	15:BR:29:ARG:CB	2.27	0.47
16:B1:92:ARG:HD2	16:B1:95:LEU:CD1	2.45	0.47
20:BU:81:LYS:HD3	20:BU:97:ARG:NH2	2.28	0.47
22:B3:84:LEU:O	22:B3:85:ALA:O	2.32	0.47
31:CA:254:G:H21	47:CT:16:GLN:NE2	2.13	0.47
31:CA:1028:C:N4	31:CA:1028(A):C:C4	2.83	0.47
31:CA:1079:G:C6	31:CA:1080:A:N6	2.83	0.47
31:CA:1154:G:O2'	31:CA:1155:G:H5'	2.15	0.47
31:CA:1255:G:O2'	31:CA:1258:G:H1'	2.15	0.47
31:CA:1305:G:OP2	31:CA:1305:G:C8	2.67	0.47
31:CA:1362(A):C:H5'	31:CA:1363:A:O5'	2.14	0.47
32:CE:164:VAL:HG23	32:CE:186:ALA:HB2	1.96	0.47
36:CI:41:GLU:CD	48:CU:35:ARG:HH22	2.23	0.47
36:CI:89:MET:HE3	48:CU:76:LEU:CD2	2.43	0.47
50:CW:49:ALA:HB3	50:CW:99:LEU:HD22	1.97	0.47
53:CC:76:C:H5''	53:CC:77:A:OP2	2.15	0.47
31:DA:79:G:H8	31:DA:79:G:OP2	1.98	0.47
31:DA:188:U:O2'	31:DA:189:U:H5'	2.15	0.47
31:DA:324:G:P	50:DW:22:ARG:HD3	2.55	0.47
31:DA:404:U:H5'	34:DG:122:ARG:HD2	1.96	0.47
31:DA:1137:C:O2'	31:DA:1138:G:N2	2.48	0.47
31:DA:1170:A:H2'	31:DA:1171:G:O4'	2.14	0.47
31:DA:1187:G:H4'	39:DL:111:ARG:HH11	1.78	0.47
31:DA:1248:A:H2'	39:DL:70:LYS:NZ	2.29	0.47
35:DH:107:ARG:O	35:DH:110:LEU:N	2.47	0.47
44:DQ:4:LYS:C	44:DQ:6:LEU:H	2.22	0.47
49:DV:29:ARG:O	49:DV:30:LEU:HG	2.15	0.47
49:DV:42:PRO:O	49:DV:43:GLU:CG	2.60	0.47
49:DV:49:ILE:HD12	49:DV:49:ILE:N	2.29	0.47
50:DW:50:GLU:HA	50:DW:100:ILE:HB	1.96	0.47
50:DW:75:ASN:N	50:DW:75:ASN:OD1	2.47	0.47
53:DC:48:U:C1'	53:DC:49:C:O5'	2.63	0.47
1:AA:69:C:H2'	1:AA:70:G:H8	1.79	0.47
1:AA:389:G:H22	11:AO:72:PRO:CG	2.28	0.47
1:AA:456:C:H5	19:AT:69:TYR:HH	1.61	0.47
1:AA:508:G:C6	18:AS:9:TYR:CE2	3.03	0.47
1:AA:815:C:H2'	1:AA:816:C:H6	1.79	0.47
1:AA:878:A:N1	1:AA:879:G:C2	2.83	0.47
1:AA:893:C:C4	1:AA:894:C:N4	2.82	0.47
1:AA:1557:C:H5''	1:AA:1558:A:OP2	2.15	0.47
1:AA:2063:C:C5	1:AA:2064:C:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2324:C:H5''	1:AA:2325:G:H5''	1.97	0.47
1:AA:2331:G:H4'	22:A3:43:THR:N	2.30	0.47
1:AA:2562:U:H1'	10:AN:23:ARG:NH1	2.30	0.47
1:AA:2695:C:H2'	1:AA:2696:U:C6	2.50	0.47
1:AA:2785:C:OP1	4:AE:41:LYS:NZ	2.48	0.47
2:AB:11:C:O5'	2:AB:12:C:C5	2.68	0.47
3:AD:70:TRP:HZ3	3:AD:146:GLU:OE2	1.98	0.47
3:AD:264:LYS:HD3	3:AD:266:SER:HB3	1.96	0.47
4:AE:4:ILE:C	4:AE:5:LEU:HD23	2.40	0.47
4:AE:23:VAL:CG1	4:AE:185:LYS:N	2.50	0.47
4:AE:64:LYS:C	4:AE:66:HIS:N	2.70	0.47
4:AE:95:ILE:HD13	4:AE:95:ILE:N	2.30	0.47
5:AF:7:TYR:HA	5:AF:22:ALA:H	1.80	0.47
6:AG:42:GLY:C	6:AG:43:LEU:HD13	2.40	0.47
8:AK:47:LEU:O	8:AK:50:ARG:HB2	2.13	0.47
8:AK:78:THR:HA	8:AK:141:LYS:HG3	1.96	0.47
9:AM:57:ALA:O	9:AM:58:ASP:CB	2.62	0.47
12:AP:43:THR:HB	12:AP:45:GLN:HG2	1.95	0.47
15:AR:61:PHE:CE2	15:AR:76:PHE:HB2	2.50	0.47
15:AR:111:ARG:O	15:AR:112:ARG:CG	2.62	0.47
17:A2:89:GLN:HA	17:A2:89:GLN:NE2	2.29	0.47
26:A4:57:GLU:CA	26:A4:60:GLN:HB2	2.45	0.47
1:BA:139:G:N2	1:BA:141:A:N1	2.63	0.47
1:BA:274:G:OP1	1:BA:274:G:O4'	2.33	0.47
1:BA:289:A:H3'	1:BA:290:G:H8	1.80	0.47
1:BA:289:A:C4	1:BA:353:G:N2	2.83	0.47
1:BA:308:G:H3'	1:BA:309:G:C8	2.50	0.47
1:BA:774:A:H2	1:BA:787:U:O2'	1.76	0.47
1:BA:945:A:C6	1:BA:2448:A:C6	3.02	0.47
1:BA:957:A:N1	1:BA:2459:A:H8	2.13	0.47
1:BA:1034:G:H2'	1:BA:1035:U:O4'	2.15	0.47
1:BA:1069:A:O2'	1:BA:1072:C:OP2	2.33	0.47
1:BA:1386:C:OP2	1:BA:1396:U:C5	2.62	0.47
1:BA:1499:C:H2'	1:BA:1500:G:C8	2.50	0.47
1:BA:2153:G:O2'	1:BA:2154:G:H5'	2.15	0.47
1:BA:2199:A:C8	1:BA:2205:C:C5	3.03	0.47
1:BA:2607:G:H2'	1:BA:2608:G:O4'	2.15	0.47
1:BA:2638:G:P	4:BE:82:ARG:HH22	2.38	0.47
1:BA:2689:U:P	1:BA:2719:G:H22	2.37	0.47
1:BA:2720:U:C4	1:BA:2873:A:N1	2.83	0.47
2:BB:10:C:C4	2:BB:11:C:H5	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:46:A:H2'	2:BB:47:C:H6	1.79	0.47
5:BF:64:ILE:C	5:BF:65:TRP:CD1	2.93	0.47
6:BG:67:LYS:HE3	26:B4:6:HIS:CD2	2.50	0.47
6:BG:167:GLU:O	6:BG:170:ARG:HB3	2.15	0.47
9:BM:99:LEU:O	9:BM:103:VAL:HG23	2.14	0.47
10:BN:2:ILE:CD1	10:BN:6:THR:HG21	2.37	0.47
11:BO:62:LEU:HD12	30:B8:30:ARG:HD3	1.95	0.47
12:BP:65:PHE:O	12:BP:66:ILE:HG12	2.15	0.47
12:BP:135:ASP:OD1	12:BP:137:TYR:CD2	2.61	0.47
13:B0:58:GLY:HA2	13:B0:80:PHE:CE1	2.49	0.47
14:BQ:84:GLN:HA	14:BQ:109:GLY:HA3	1.96	0.47
15:BR:3:ARG:HG2	15:BR:6:LEU:HB2	1.95	0.47
15:BR:3:ARG:NE	15:BR:6:LEU:HD13	2.29	0.47
15:BR:8:LYS:NZ	15:BR:8:LYS:CB	2.68	0.47
15:BR:29:ARG:HH11	15:BR:29:ARG:HB3	1.80	0.47
15:BR:50:ILE:HB	15:BR:62:THR:OG1	2.15	0.47
16:B1:95:LEU:O	16:B1:98:LEU:HG	2.15	0.47
19:BT:36:LYS:HG2	19:BT:54:VAL:HB	1.96	0.47
19:BT:43:VAL:HG22	19:BT:51:VAL:CG2	2.45	0.47
20:BU:16:ALA:O	20:BU:21:LYS:HG3	2.13	0.47
21:BV:115:GLY:HA3	21:BV:174:VAL:HG13	1.95	0.47
26:B4:23:GLU:CG	26:B4:24:THR:N	2.78	0.47
28:B6:28:ARG:CB	28:B6:31:PRO:HD2	2.45	0.47
30:B8:19:SER:OG	30:B8:21:LYS:HD2	2.15	0.47
31:CA:17:U:C2'	31:CA:18:C:O5'	2.62	0.47
31:CA:185:A:O2'	31:CA:186:C:H5'	2.15	0.47
31:CA:261:U:OP2	50:CW:79:ARG:NH2	2.48	0.47
31:CA:455:C:H42	31:CA:477:G:H1	1.62	0.47
31:CA:647:C:O2'	31:CA:648:A:H5'	2.14	0.47
31:CA:730:G:C5	31:CA:731:G:H1'	2.49	0.47
31:CA:745:C:H2'	31:CA:746:A:C8	2.50	0.47
31:CA:760:G:C2'	31:CA:761:G:H5'	2.45	0.47
31:CA:763:G:N3	31:CA:764:C:C6	2.82	0.47
31:CA:895:G:H2'	31:CA:896:C:H6	1.78	0.47
31:CA:939:G:H2'	31:CA:940:C:H6	1.79	0.47
31:CA:946:A:C2	31:CA:1236:A:C2	3.02	0.47
31:CA:958:A:N6	31:CA:959:A:N6	2.63	0.47
31:CA:1129:C:H41	31:CA:1141:C:H41	1.63	0.47
31:CA:1148:U:H2'	31:CA:1149:C:O4'	2.14	0.47
31:CA:1228:C:OP1	43:CP:115:LYS:HE3	2.13	0.47
31:CA:1299:A:O3'	31:CA:1300:G:H4'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1366:C:O2'	40:CM:60:ARG:NH2	2.41	0.47
32:CE:5:ILE:CG2	32:CE:221:LEU:HD23	2.44	0.47
32:CE:71:VAL:HG12	32:CE:93:VAL:HB	1.96	0.47
32:CE:87:ARG:HE	32:CE:233:SER:CB	2.28	0.47
32:CE:189:ASP:OD1	32:CE:191:ASP:HB2	2.15	0.47
34:CG:155:LEU:O	34:CG:156:GLU:C	2.57	0.47
35:CH:31:LEU:HD23	35:CH:31:LEU:HA	1.74	0.47
36:CI:61:LEU:HD23	36:CI:63:TYR:OH	2.14	0.47
38:CK:40:ALA:O	38:CK:43:GLY:N	2.47	0.47
38:CK:86:ILE:O	38:CK:87:SER:C	2.58	0.47
39:CL:4:TYR:CG	39:CL:88:TYR:HB2	2.49	0.47
39:CL:53:VAL:HG21	39:CL:92:TYR:CG	2.49	0.47
44:CQ:13:THR:N	44:CQ:14:PRO:CD	2.77	0.47
48:CU:73:ALA:HB3	48:CU:79:LEU:HD12	1.96	0.47
50:CW:53:LEU:HD12	50:CW:100:ILE:HG23	1.95	0.47
53:CC:1:C:O2'	53:CC:2:G:P	2.72	0.47
53:CD:6:G:O2'	53:CD:7:G:H5'	2.15	0.47
53:CD:56:U:O4	53:CD:58:A:H5''	2.14	0.47
31:DA:174:C:H2'	31:DA:175:C:H6	1.80	0.47
31:DA:241:C:C2	31:DA:286:G:C2	3.03	0.47
31:DA:322:C:H41	31:DA:328:C:H6	1.63	0.47
31:DA:584:G:H5'	47:DT:91:ARG:HH12	1.79	0.47
31:DA:626:U:C2	31:DA:627:G:C8	3.03	0.47
31:DA:689:C:H2'	31:DA:690:G:C5'	2.42	0.47
31:DA:693:G:H2'	31:DA:694:A:O4'	2.15	0.47
31:DA:702:A:H3'	31:DA:703:G:H5'	1.96	0.47
31:DA:892:A:H2'	31:DA:893:C:C6	2.50	0.47
31:DA:954:G:H2'	31:DA:955:U:H6	1.78	0.47
31:DA:973:G:C1'	40:DM:55:LYS:HG3	2.45	0.47
31:DA:1054:C:N4	52:DB:35:G:C4	2.82	0.47
31:DA:1190:G:C5'	33:DF:176:HIS:NE2	2.78	0.47
31:DA:1204:A:OP1	44:DQ:3:ARG:NH1	2.47	0.47
31:DA:1239:A:H62	31:DA:1299:A:H62	1.62	0.47
31:DA:1338:G:H2'	31:DA:1339:A:O4'	2.14	0.47
31:DA:1468:A:H8	31:DA:1468:A:O5'	1.98	0.47
32:DE:154:LEU:HB3	32:DE:155:LEU:H	1.56	0.47
33:DF:75:VAL:O	33:DF:83:ARG:NE	2.47	0.47
38:DK:99:GLU:N	38:DK:99:GLU:OE1	2.48	0.47
39:DL:95:LYS:NZ	39:DL:96:LEU:HD12	2.30	0.47
40:DM:24:VAL:HG21	40:DM:37:PRO:HG3	1.96	0.47
40:DM:65:LEU:CD2	44:DQ:36:PHE:CZ	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DM:75:ILE:HG13	40:DM:76:ASN:H	1.80	0.47
41:DN:48:ILE:HD12	41:DN:48:ILE:HA	1.74	0.47
43:DP:34:LEU:HD13	43:DP:41:PRO:HA	1.96	0.47
44:DQ:47:LEU:O	44:DQ:50:LYS:N	2.48	0.47
46:DS:21:VAL:CG1	46:DS:34:GLU:HB3	2.44	0.47
52:DB:10:G:H2'	52:DB:11:U:H6	1.80	0.47
52:DB:86:C:H2'	52:DB:87:A:C4	2.50	0.47
53:DC:1:C:C6	53:DC:1:C:C3'	2.98	0.47
53:DD:55:U:N3	53:DD:56:U:C5	2.83	0.47
1:AA:299:A:N1	1:AA:322:A:O2'	2.39	0.47
1:AA:594:U:OP1	30:A8:61:LEU:HD22	2.15	0.47
1:AA:917:A:H2'	1:AA:918:A:O5'	2.14	0.47
1:AA:1193:G:H2'	1:AA:1194:A:H8	1.79	0.47
1:AA:1499:C:O2'	1:AA:1500:G:H5'	2.15	0.47
1:AA:1609:A:O2'	1:AA:1610:A:H5'	2.15	0.47
1:AA:1664:A:N6	1:AA:1665:A:N6	2.62	0.47
1:AA:1882:C:H5'	1:AA:1883:G:OP2	2.15	0.47
1:AA:2124:G:C2'	1:AA:2125:G:H5'	2.45	0.47
1:AA:2295:C:H2'	1:AA:2295:C:O2	2.15	0.47
1:AA:2683:C:OP1	15:AR:55:ASN:ND2	2.48	0.47
1:AA:2839:G:C4	1:AA:2840:C:C5	3.03	0.47
3:AD:101:GLU:OE1	3:AD:103:ARG:NH1	2.47	0.47
4:AE:103:ASP:OD1	4:AE:201:THR:HA	2.14	0.47
7:AH:30:LYS:NZ	7:AH:83:TYR:HE2	2.12	0.47
7:AH:125:VAL:HG12	7:AH:127:GLU:O	2.14	0.47
8:AK:125:GLU:OE1	8:AK:141:LYS:HB3	2.14	0.47
10:AN:48:PRO:O	10:AN:49:ARG:HB2	2.15	0.47
11:AO:58:THR:O	11:AO:58:THR:CG2	2.62	0.47
17:A2:44:LYS:HG2	17:A2:45:THR:H	1.77	0.47
18:AS:75:TYR:CE2	18:AS:104:THR:CB	2.98	0.47
19:AT:51:VAL:HG13	19:AT:81:VAL:HG23	1.97	0.47
22:A3:60:PHE:CD2	22:A3:60:PHE:N	2.83	0.47
23:AZ:83:GLU:CD	23:AZ:85:LEU:HB2	2.40	0.47
23:AZ:92:LYS:CA	23:AZ:95:LEU:HD12	2.44	0.47
1:BA:2:G:H1	1:BA:2901:C:H42	1.63	0.47
1:BA:807:U:H2'	1:BA:808:G:O5'	2.15	0.47
1:BA:854:G:N2	1:BA:924:C:C2	2.83	0.47
1:BA:1029:A:H8	1:BA:1029:A:O5'	1.98	0.47
1:BA:1122:G:N3	1:BA:1122:G:H2'	2.30	0.47
1:BA:1464:C:O2'	1:BA:1528:A:C8	2.55	0.47
1:BA:1710:C:O2'	1:BA:1711:C:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1759:A:C8	1:BA:2696:U:H1'	2.49	0.47
1:BA:2129:C:N4	1:BA:2130:U:H3	2.12	0.47
1:BA:2532:G:N2	1:BA:2663:G:O2'	2.48	0.47
1:BA:2634:G:O3'	4:BE:77:ILE:HD12	2.14	0.47
1:BA:2662:A:H8	1:BA:2662:A:O5'	1.97	0.47
3:BD:6:PHE:CE1	3:BD:18:VAL:HG12	2.50	0.47
5:BF:89:VAL:CG1	5:BF:90:PHE:N	2.50	0.47
6:BG:94:LEU:HD23	6:BG:94:LEU:H	1.80	0.47
9:BM:72:TYR:CE1	9:BM:101:HIS:HD2	2.33	0.47
11:BO:61:ARG:HG3	30:B8:27:THR:CG2	2.44	0.47
12:BP:63:LYS:HD3	12:BP:63:LYS:HA	1.62	0.47
14:BQ:3:ARG:O	14:BQ:4:LEU:C	2.58	0.47
15:BR:88:ILE:HD11	15:BR:91:ARG:HG2	1.97	0.47
16:B1:92:ARG:HD2	16:B1:95:LEU:HD13	1.96	0.47
20:BU:75:ILE:HA	20:BU:80:GLY:CA	2.45	0.47
20:BU:90:LEU:HD23	20:BU:90:LEU:N	2.25	0.47
21:BV:24:LEU:HD11	21:BV:86:VAL:HG12	1.97	0.47
21:BV:114:GLY:C	21:BV:116:VAL:N	2.72	0.47
31:CA:49:U:O2'	31:CA:50:A:C3'	2.62	0.47
31:CA:109:A:N7	31:CA:326:G:H2'	2.30	0.47
31:CA:405:U:H3'	31:CA:406:G:H5'	1.97	0.47
31:CA:1176:A:N6	31:CA:1177:G:C5	2.83	0.47
32:CE:76:GLN:HB3	32:CE:211:ILE:HD11	1.96	0.47
36:CI:97:PHE:O	48:CU:31:LEU:HD23	2.15	0.47
43:CP:15:VAL:O	43:CP:19:LEU:CD2	2.63	0.47
46:CS:68:ASP:O	46:CS:71:ARG:HG2	2.15	0.47
31:DA:686:U:O4	31:DA:703:G:H1'	2.15	0.47
31:DA:811:C:H4'	31:DA:900:A:H61	1.78	0.47
31:DA:895:G:H2'	31:DA:896:C:C6	2.49	0.47
31:DA:1055:A:C2	31:DA:1056:U:H1'	2.49	0.47
31:DA:1056:U:O4	31:DA:1200:C:C6	2.68	0.47
31:DA:1149:C:OP2	39:DL:9:ARG:NH1	2.47	0.47
31:DA:1305:G:OP2	31:DA:1305:G:C8	2.68	0.47
31:DA:1315:U:H2'	31:DA:1316:G:O4'	2.15	0.47
37:DJ:127:ALA:O	37:DJ:130:GLY:N	2.47	0.47
38:DK:85:ARG:O	38:DK:86:ILE:HD13	2.14	0.47
38:DK:103:VAL:CG2	38:DK:110:ALA:HB2	2.44	0.47
53:DD:56:U:N3	53:DD:58:A:H8	2.07	0.47
1:AA:288:C:H2'	1:AA:289:A:H8	1.80	0.47
1:AA:320:A:H2'	5:AF:136:THR:CG2	2.43	0.47
1:AA:449:A:N6	1:AA:450:G:C6	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:470:A:C5'	1:AA:470:A:H8	2.27	0.47
1:AA:529:A:H4'	1:AA:530:G:H5'	1.95	0.47
1:AA:539:G:H2'	1:AA:539:G:N3	2.28	0.47
1:AA:569:U:C4	1:AA:570:G:C6	3.02	0.47
1:AA:1205:U:H4'	1:AA:1206:G:OP2	2.14	0.47
1:AA:1240:U:HO2'	1:AA:1241:A:H5'	1.74	0.47
1:AA:1331:A:O2'	1:AA:1332:G:C8	2.64	0.47
1:AA:1464:C:O2'	1:AA:1528:A:C8	2.68	0.47
1:AA:1479:G:C5	1:AA:1510:A:N6	2.81	0.47
1:AA:1786:A:C1'	1:AA:1938:A:N6	2.78	0.47
1:AA:1937:A:C2'	1:AA:1938:A:OP1	2.62	0.47
1:AA:2163:C:C5	1:AA:2164:C:C5	3.03	0.47
1:AA:2205:C:H2'	1:AA:2205:C:O2	2.15	0.47
2:AB:82:G:O2'	2:AB:83:G:H5'	2.15	0.47
5:AF:63:LYS:CE	5:AF:67:GLN:HB3	2.45	0.47
6:AG:63:ILE:HG12	6:AG:64:THR:N	2.28	0.47
8:AK:69:LYS:HA	8:AK:136:VAL:HG11	1.97	0.47
8:AK:135:GLU:CD	8:AK:135:GLU:H	2.23	0.47
9:AM:7:LYS:H	9:AM:7:LYS:CD	2.26	0.47
9:AM:17:ASP:O	9:AM:18:ALA:HB3	2.15	0.47
20:AU:60:PHE:N	20:AU:60:PHE:CD2	2.83	0.47
23:AZ:3:LYS:C	23:AZ:4:VAL:HG12	2.39	0.47
24:AW:47:ASN:O	24:AW:48:HIS:C	2.58	0.47
28:A6:33:LYS:O	28:A6:35:GLU:HG3	2.15	0.47
1:BA:10:G:C6	1:BA:2629:A:C2	3.03	0.47
1:BA:85:G:C5	1:BA:98:G:C2	3.02	0.47
1:BA:697:C:H2'	1:BA:697:C:O2	2.14	0.47
1:BA:846:C:C2	1:BA:847:U:H5	2.33	0.47
1:BA:1217:C:OP2	16:B1:15:LYS:HE3	2.15	0.47
1:BA:1644:C:O2	1:BA:1644:C:H2'	2.13	0.47
1:BA:2133:G:H1'	1:BA:2158:A:N6	2.30	0.47
1:BA:2364:C:O2'	1:BA:2365:G:H5'	2.15	0.47
1:BA:2721:A:H2'	1:BA:2722:G:O4'	2.14	0.47
2:BB:55:U:O2'	2:BB:56:G:H5'	2.15	0.47
3:BD:25:THR:HG21	3:BD:81:ALA:HA	1.97	0.47
3:BD:35:LYS:HD3	3:BD:63:ARG:HB3	1.97	0.47
3:BD:139:GLY:N	3:BD:165:ILE:O	2.48	0.47
9:BM:47:ALA:HB2	9:BM:112:LEU:HD11	1.97	0.47
11:BO:80:TYR:CE1	11:BO:111:ARG:CG	2.93	0.47
16:B1:68:ALA:O	16:B1:71:GLN:HB2	2.15	0.47
23:BZ:95:LEU:C	23:BZ:97:LEU:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:940:C:H2'	31:CA:941:G:C8	2.50	0.47
31:CA:967:C:H6	31:CA:967:C:O5'	1.98	0.47
31:CA:1179:A:H2'	31:CA:1180:A:O4'	2.15	0.47
31:CA:1278:U:H6	31:CA:1278:U:H3'	1.80	0.47
32:CE:221:LEU:HD13	32:CE:221:LEU:O	2.15	0.47
34:CG:10:ARG:O	34:CG:14:ARG:HB2	2.15	0.47
34:CG:70:ILE:CG2	34:CG:75:PHE:HB2	2.44	0.47
36:CI:3:ARG:HD3	36:CI:38:GLU:OE1	2.14	0.47
37:CJ:56:GLN:HG2	37:CJ:56:GLN:H	1.50	0.47
40:CM:55:LYS:O	40:CM:55:LYS:HE2	2.14	0.47
44:CQ:3:ARG:HD3	44:CQ:3:ARG:HA	1.59	0.47
52:CB:16:U:N1	52:CB:70:G:N2	2.63	0.47
31:DA:47:C:H5''	31:DA:365:U:C6	2.49	0.47
31:DA:426:G:P	34:DG:36:ARG:HH21	2.38	0.47
31:DA:561:U:O2'	31:DA:562:C:P	2.73	0.47
31:DA:652:U:O4	31:DA:752:G:H1'	2.15	0.47
31:DA:673:G:O3'	36:DI:87:ARG:NH2	2.48	0.47
31:DA:740:U:OP2	45:DR:2:PRO:HA	2.15	0.47
31:DA:802:A:H5'	31:DA:803:G:OP2	2.15	0.47
31:DA:862:C:O2'	31:DA:863:U:H5'	2.14	0.47
31:DA:879:C:C5	42:DO:6:THR:HG21	2.49	0.47
31:DA:1095:U:OP1	31:DA:1108:G:N1	2.48	0.47
31:DA:1127:G:N2	31:DA:1144:G:N2	2.61	0.47
31:DA:1153:C:C4	31:DA:1154:G:N7	2.82	0.47
34:DG:141:ARG:O	34:DG:144:ASP:HB2	2.15	0.47
40:DM:31:GLY:O	40:DM:32:ALA:HB2	2.15	0.47
40:DM:81:THR:O	40:DM:84:GLN:N	2.48	0.47
41:DN:116:HIS:O	41:DN:117:ASN:HB2	2.15	0.47
42:DO:50:SER:O	42:DO:51:ALA:HB2	2.15	0.47
42:DO:60:LEU:C	42:DO:62:SER:H	2.22	0.47
42:DO:83:VAL:CG1	42:DO:84:LEU:N	2.78	0.47
47:DT:58:GLU:O	47:DT:59:ILE:HD13	2.15	0.47
51:DX:6:ARG:HD3	51:DX:15:ARG:HH21	1.79	0.47
51:DX:8:THR:HG22	51:DX:10:ARG:N	2.30	0.47
1:AA:245:G:C4'	11:AO:70:GLN:O	2.63	0.47
1:AA:449:A:C6	1:AA:450:G:C5	3.03	0.47
1:AA:883:G:H2'	1:AA:884:C:C4'	2.45	0.47
1:AA:1006:C:C2	1:AA:1138:G:N2	2.83	0.47
1:AA:1062:G:OP1	1:AA:1062:G:H8	1.98	0.47
1:AA:1368:G:C2	1:AA:1369:G:C8	3.03	0.47
1:AA:1416:G:O2'	1:AA:1417:C:H6	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1536:A:H2'	1:AA:1537:C:OP1	2.15	0.47
1:AA:2689:U:C4'	1:AA:2690:C:OP2	2.63	0.47
1:AA:2870:C:N3	1:AA:2871:C:C2	2.83	0.47
3:AD:72:LYS:HE3	3:AD:75:ILE:CD1	2.41	0.47
4:AE:22:PRO:O	4:AE:23:VAL:CB	2.63	0.47
4:AE:61:ARG:C	4:AE:63:LEU:N	2.73	0.47
6:AG:145:THR:O	6:AG:146:TYR:HB3	2.15	0.47
9:AM:24:GLY:HA2	9:AM:27:ALA:CB	2.44	0.47
9:AM:55:VAL:O	9:AM:56:ASN:C	2.57	0.47
11:AO:83:VAL:O	11:AO:114:ILE:HA	2.14	0.47
14:AQ:56:LEU:HB2	14:AQ:58:LEU:CD2	2.45	0.47
15:AR:7:ILE:O	15:AR:10:VAL:HB	2.14	0.47
23:AZ:25:LYS:HB2	23:AZ:25:LYS:HE3	1.70	0.47
25:AX:23:LEU:CD2	25:AX:50:VAL:HG11	2.45	0.47
25:AX:39:ASP:OD1	25:AX:39:ASP:C	2.57	0.47
28:A6:28:ARG:HB3	28:A6:28:ARG:NH1	2.29	0.47
1:BA:394:A:H2'	1:BA:395:U:O4'	2.15	0.47
1:BA:587:C:C2	11:BO:33:ARG:NH1	2.83	0.47
1:BA:605:C:H1'	1:BA:657:U:O2'	2.15	0.47
1:BA:628:G:H5''	30:B8:18:ALA:HB2	1.96	0.47
1:BA:829:A:N7	1:BA:2247:A:O2'	2.45	0.47
1:BA:900:A:H3'	1:BA:901:A:C8	2.45	0.47
1:BA:998:C:C2'	1:BA:999:U:O5'	2.63	0.47
1:BA:1012:U:N3	9:BM:25:ARG:HD3	2.30	0.47
1:BA:1314:C:N3	1:BA:1339:G:C2	2.83	0.47
1:BA:1353:A:H4'	3:BD:38:LYS:CE	2.45	0.47
1:BA:1464:C:C2	1:BA:1465:G:C8	3.03	0.47
1:BA:1985:G:O2'	1:BA:1986:A:H5'	2.15	0.47
1:BA:2439:A:C5'	1:BA:2439:A:H8	2.26	0.47
1:BA:2749:A:H8	1:BA:2749:A:O5'	1.98	0.47
1:BA:2873:A:H8	13:B0:5:LYS:HA	1.79	0.47
3:BD:34:VAL:C	3:BD:35:LYS:O	2.57	0.47
5:BF:64:ILE:O	5:BF:65:TRP:HD1	1.98	0.47
7:BH:4:ILE:HD13	7:BH:7:LEU:HD23	1.97	0.47
7:BH:153:LYS:O	7:BH:161:GLY:HA3	2.14	0.47
9:BM:97:ARG:CG	9:BM:97:ARG:NH1	2.60	0.47
11:BO:55:ARG:O	11:BO:55:ARG:HG3	2.13	0.47
12:BP:133:ARG:HD3	12:BP:133:ARG:C	2.40	0.47
20:BU:17:SER:HB3	20:BU:71:LYS:HB3	1.97	0.47
31:CA:5:U:O2'	31:CA:6:G:N3	2.42	0.47
31:CA:373:A:H2'	31:CA:374:A:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1223:C:P	31:CA:1224:G:H2'	2.55	0.47
32:CE:5:ILE:HG13	32:CE:6:THR:N	2.30	0.47
33:CF:141:VAL:CG1	33:CF:202:ILE:HG23	2.45	0.47
37:CJ:111:ARG:HB3	37:CJ:112:PRO:HD2	1.97	0.47
39:CL:63:ILE:HD11	39:CL:81:ILE:HD11	1.96	0.47
46:CS:57:ARG:O	46:CS:58:TYR:C	2.58	0.47
48:CU:67:ALA:O	48:CU:68:LYS:C	2.58	0.47
52:CB:50:A:C2	52:CB:54:G:C6	3.03	0.47
31:DA:142:G:H2'	31:DA:143:A:H8	1.79	0.47
31:DA:568:G:N2	31:DA:883:C:C2	2.83	0.47
31:DA:799:G:O6	31:DA:800:G:C2	2.68	0.47
31:DA:832:C:O2'	31:DA:833:U:H5'	2.15	0.47
31:DA:1133:G:H2'	31:DA:1134:G:C8	2.34	0.47
31:DA:1133:G:N2	31:DA:1141:C:C2	2.81	0.47
31:DA:1428:A:H2'	31:DA:1429:C:C6	2.50	0.47
32:DE:102:LEU:HD12	32:DE:102:LEU:H	1.80	0.47
32:DE:167:PRO:HD3	32:DE:187:LEU:O	2.15	0.47
34:DG:24:GLU:O	34:DG:25:ARG:C	2.57	0.47
37:DJ:37:ASN:HD21	39:DL:41:VAL:H	1.62	0.47
37:DJ:89:MET:HE3	37:DJ:155:ARG:HB2	1.96	0.47
40:DM:69:ASN:O	40:DM:70:ARG:HG3	2.14	0.47
41:DN:56:GLY:O	41:DN:89:ALA:HB3	2.15	0.47
41:DN:120:ARG:HA	41:DN:121:PRO:HD3	1.75	0.47
42:DO:27:LEU:CD2	42:DO:33:ARG:HG2	2.41	0.47
42:DO:32:PHE:HB3	42:DO:84:LEU:HD21	1.97	0.47
44:DQ:15:LYS:HB3	44:DQ:15:LYS:HZ3	1.79	0.47
52:DB:23:A:HO2'	52:DB:24:C:P	2.35	0.47
1:AA:245:G:H2'	1:AA:246:C:H6	1.81	0.46
1:AA:651:G:OP1	30:A8:19:SER:OG	2.26	0.46
1:AA:719:C:H2'	1:AA:720:C:C6	2.50	0.46
1:AA:1784:A:C4'	1:AA:1785:A:H5''	2.45	0.46
1:AA:1902:C:C4	1:AA:1903:G:H1'	2.50	0.46
1:AA:1999:C:H5''	1:AA:2723:C:O2'	2.15	0.46
1:AA:2288:A:C2	1:AA:2325:G:C8	3.03	0.46
5:AF:23:ASP:CG	5:AF:24:LEU:H	2.23	0.46
15:AR:108:ARG:CG	15:AR:109:GLU:N	2.78	0.46
21:AV:6:LYS:NZ	21:AV:43:GLU:HG3	2.29	0.46
22:A3:64:ASP:CB	22:A3:85:ALA:HB2	2.42	0.46
29:A7:18:PHE:CD2	29:A7:18:PHE:C	2.92	0.46
1:BA:252:G:OP2	11:BO:50:ARG:NH1	2.33	0.46
1:BA:459:U:H2'	1:BA:460:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:486:C:H4'	18:BS:60:ASN:ND2	2.28	0.46
1:BA:1012:U:N3	1:BA:1143:A:C6	2.83	0.46
1:BA:1341:U:O4	19:BT:16:LYS:NZ	2.45	0.46
1:BA:1387:C:H5'	1:BA:1469:A:H4'	1.97	0.46
1:BA:1743:G:C2	1:BA:1746:G:C8	3.02	0.46
1:BA:1821:A:H2'	1:BA:1822:G:H8	1.80	0.46
1:BA:2120:G:O2'	1:BA:2121:G:H5'	2.15	0.46
1:BA:2815:C:H5'	27:B5:29:THR:HG21	1.97	0.46
1:BA:2881:C:C4	1:BA:2882:A:N7	2.83	0.46
4:BE:56:PRO:HA	4:BE:57:LYS:HA	1.47	0.46
4:BE:111:ARG:HD2	4:BE:160:TYR:CD1	2.50	0.46
8:BK:144:VAL:CG2	8:BK:145:VAL:HG23	2.39	0.46
9:BM:134:ARG:N	9:BM:135:PRO:CD	2.78	0.46
14:BQ:63:THR:O	14:BQ:66:ALA:HB3	2.14	0.46
14:BQ:95:HIS:N	14:BQ:99:LYS:HB2	2.30	0.46
15:BR:4:GLY:O	15:BR:7:ILE:HG22	2.15	0.46
15:BR:50:ILE:HD11	15:BR:102:ILE:CD1	2.40	0.46
15:BR:93:ARG:CG	15:BR:117:ASP:CB	2.90	0.46
15:BR:107:ASP:C	15:BR:109:GLU:N	2.72	0.46
26:B4:59:PHE:HD1	26:B4:60:GLN:NE2	2.13	0.46
26:B4:60:GLN:NE2	49:DV:66:MET:HE2	2.29	0.46
30:B8:61:LEU:HD12	30:B8:62:LEU:N	2.30	0.46
31:CA:66:G:C5	31:CA:67:C:C5	3.03	0.46
31:CA:222:U:H2'	31:CA:223:U:C6	2.50	0.46
31:CA:489:C:O2'	31:CA:490:G:H5'	2.14	0.46
31:CA:587:G:N2	31:CA:755:G:C5	2.83	0.46
31:CA:600:C:H5'	38:CK:129:VAL:O	2.15	0.46
31:CA:658:G:C4	31:CA:659:U:C6	3.03	0.46
31:CA:1004:A:C6	31:CA:1025:U:H1'	2.50	0.46
31:CA:1072:G:C6	31:CA:1073:U:C4	3.04	0.46
31:CA:1157:A:H62	31:CA:1178:G:N2	2.11	0.46
31:CA:1368:G:H5''	39:CL:112:LYS:HB3	1.98	0.46
31:CA:1502:A:H2	31:CA:1505:G:C2	2.32	0.46
31:CA:1502:A:C2	31:CA:1505:G:N2	2.65	0.46
32:CE:82:ARG:HG2	32:CE:92:TYR:CE1	2.50	0.46
33:CF:94:LEU:HD12	33:CF:94:LEU:O	2.14	0.46
34:CG:13:ARG:HA	34:CG:33:MET:HE3	1.96	0.46
34:CG:59:ARG:NH2	34:CG:66:ARG:HH12	2.13	0.46
36:CI:18:GLN:O	36:CI:21:LEU:HB2	2.16	0.46
46:CS:49:LEU:HD12	46:CS:50:LYS:H	1.80	0.46
53:CD:22:A:N1	53:CD:47:G:H2'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:58:C:H6	31:DA:58:C:O5'	1.97	0.46
31:DA:476:G:H2'	31:DA:477:G:C8	2.48	0.46
31:DA:1009:G:C2	31:DA:1010:G:C8	3.03	0.46
31:DA:1128:C:H5''	39:DL:16:ARG:NH2	2.24	0.46
31:DA:1286:A:H2	51:DX:18:TYR:HH	1.61	0.46
31:DA:1418:A:H5''	31:DA:1419:G:OP2	2.15	0.46
32:DE:92:TYR:CE2	32:DE:151:GLY:CA	2.98	0.46
50:DW:58:LYS:O	50:DW:58:LYS:HD3	2.15	0.46
1:AA:77:C:OP1	24:AW:59:ARG:HD3	2.15	0.46
1:AA:452:G:C2	1:AA:458:G:C5	3.04	0.46
1:AA:637:A:C4	1:AA:652:C:H1'	2.50	0.46
1:AA:967:C:C2	1:AA:968:G:C8	3.04	0.46
1:AA:1190:G:H5'	11:AO:32:THR:HA	1.98	0.46
1:AA:1264:G:OP1	27:A5:19:ARG:NH2	2.36	0.46
1:AA:1528:A:N1	1:AA:1543:A:C2	2.83	0.46
1:AA:1558:A:O2'	1:AA:1559:G:OP2	2.33	0.46
1:AA:2255:G:C2	12:AP:85:LYS:HE2	2.50	0.46
1:AA:2329:G:H2'	1:AA:2330:G:C8	2.50	0.46
1:AA:2371:G:C1'	28:A6:45:LYS:HG3	2.46	0.46
1:AA:2675:A:H5'	10:AN:29:ASN:O	2.14	0.46
1:AA:2824:C:H2'	1:AA:2825:C:O4'	2.16	0.46
5:AF:9:ILE:CD1	5:AF:20:LEU:HB3	2.45	0.46
6:AG:28:VAL:O	6:AG:31:VAL:HG13	2.15	0.46
6:AG:63:ILE:HD12	6:AG:141:PHE:CG	2.50	0.46
7:AH:84:SER:O	7:AH:133:VAL:O	2.34	0.46
8:AK:98:ALA:O	8:AK:99:GLU:C	2.57	0.46
9:AM:127:ASP:OD1	9:AM:127:ASP:N	2.48	0.46
11:AO:83:VAL:CG1	11:AO:112:LEU:HD21	2.44	0.46
11:AO:114:ILE:O	11:AO:114:ILE:HG13	2.15	0.46
11:AO:140:ALA:O	11:AO:141:ALA:HB3	2.16	0.46
21:AV:37:VAL:HG23	21:AV:38:TYR:N	2.29	0.46
21:AV:62:PRO:O	21:AV:63:ASP:CB	2.55	0.46
22:A3:55:ARG:HG3	22:A3:55:ARG:HH11	1.80	0.46
1:BA:84:A:P	20:BU:8:LYS:HD3	2.55	0.46
1:BA:198:C:H6	1:BA:198:C:O5'	1.98	0.46
1:BA:329:G:C5	20:BU:19:LYS:HG2	2.49	0.46
1:BA:693:C:O2'	1:BA:694:U:H5'	2.15	0.46
1:BA:726:G:O2'	1:BA:727:A:OP2	2.31	0.46
1:BA:847:U:C6	1:BA:933:A:N6	2.77	0.46
1:BA:960:A:C5'	1:BA:961:C:OP1	2.63	0.46
1:BA:1017:G:H2'	1:BA:1017:G:N3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1120:G:C6	1:BA:1121:C:C4	3.03	0.46
1:BA:1407:C:C2	1:BA:1596:A:C2	3.03	0.46
1:BA:1629:U:H2'	1:BA:1630:G:C8	2.51	0.46
1:BA:1951:U:O2'	1:BA:1953:A:N7	2.39	0.46
1:BA:2150:U:H2'	1:BA:2151:G:C8	2.45	0.46
1:BA:2850:A:H2'	1:BA:2851:A:H8	1.80	0.46
3:BD:27:THR:HB	3:BD:81:ALA:HB1	1.97	0.46
4:BE:10:GLY:O	4:BE:24:THR:O	2.33	0.46
9:BM:28:THR:HA	9:BM:106:MET:CE	2.45	0.46
12:BP:7:MET:CB	12:BP:10:ARG:HH22	2.28	0.46
15:BR:118:ARG:NH2	31:DA:1446:A:C6	2.83	0.46
17:B2:83:ARG:O	17:B2:84:LYS:CB	2.64	0.46
21:BV:48:PHE:CE1	21:BV:52:SER:HB2	2.50	0.46
23:BZ:87:PRO:O	23:BZ:91:LYS:N	2.34	0.46
31:CA:5:U:H1'	31:CA:6:G:C6	2.50	0.46
31:CA:84:U:H6	31:CA:84:U:OP1	1.97	0.46
31:CA:265:G:H5'	47:CT:64:PRO:O	2.15	0.46
31:CA:977:A:O2'	31:CA:979:C:OP2	2.29	0.46
32:CE:87:ARG:NH2	32:CE:233:SER:OG	2.34	0.46
33:CF:126:ARG:CG	33:CF:126:ARG:NH1	2.74	0.46
34:CG:8:VAL:HG21	34:CG:115:ARG:CZ	2.45	0.46
35:CH:145:LYS:HA	38:CK:107:LEU:HD21	1.97	0.46
38:CK:104:ARG:O	38:CK:107:LEU:HB2	2.15	0.46
48:CU:38:GLU:OE1	48:CU:41:LYS:HE2	2.15	0.46
31:DA:76:G:C6	31:DA:77:C:C4	3.03	0.46
31:DA:176:C:O2'	31:DA:177:C:H5'	2.14	0.46
31:DA:324:G:N2	31:DA:327:A:C8	2.83	0.46
31:DA:428:G:C5	31:DA:430:A:C6	3.04	0.46
31:DA:955:U:O2'	49:DV:83:HIS:CD2	2.68	0.46
31:DA:984:C:H2'	31:DA:985:C:H6	1.80	0.46
31:DA:1006:C:H2'	31:DA:1007:C:C6	2.51	0.46
31:DA:1311:G:C2	31:DA:1327:C:N3	2.83	0.46
32:DE:19:HIS:HD2	32:DE:205:ASP:OD1	1.98	0.46
33:DF:15:THR:HG21	33:DF:181:ASN:HA	1.97	0.46
35:DH:19:MET:HE2	35:DH:19:MET:HA	1.96	0.46
39:DL:4:TYR:CE2	39:DL:88:TYR:CB	2.98	0.46
44:DQ:43:CYS:O	44:DQ:46:GLU:N	2.48	0.46
45:DR:32:LEU:O	45:DR:36:ILE:HG13	2.15	0.46
49:DV:31:ILE:CG2	49:DV:50:ALA:H	2.28	0.46
1:AA:78:A:H2'	1:AA:79:G:C8	2.50	0.46
1:AA:102:G:OP1	24:AW:7:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:185:U:H4'	1:AA:218:A:H4'	1.97	0.46
1:AA:271(C):U:C2'	1:AA:271:G:OP1	2.63	0.46
1:AA:449:A:OP1	5:AF:85:GLY:HA2	2.16	0.46
1:AA:511:U:H2'	1:AA:512:G:H5'	1.98	0.46
1:AA:514:A:H1'	1:AA:581:C:O2'	2.15	0.46
1:AA:518:G:C4'	18:AS:18:ARG:NH1	2.73	0.46
1:AA:597:U:H2'	1:AA:598:G:C8	2.51	0.46
1:AA:654(L):G:H2'	1:AA:654(M):C:O4'	2.15	0.46
1:AA:1022:G:N2	1:AA:1142(A):A:H2	2.06	0.46
1:AA:1083:U:H3'	1:AA:1084:A:H5''	1.97	0.46
1:AA:1152:C:C2'	1:AA:1153:C:H5'	2.45	0.46
1:AA:1519:G:C6	1:AA:1520:U:C4	3.04	0.46
1:AA:1561:G:H2'	1:AA:1562:A:H8	1.80	0.46
1:AA:2660:A:C2	1:AA:2661:G:H1'	2.50	0.46
1:AA:2875:C:O2'	15:AR:5:ALA:CB	2.62	0.46
2:AB:30:C:H2'	2:AB:31:C:H5'	1.97	0.46
3:AD:158:ALA:HB3	3:AD:161:THR:CG2	2.45	0.46
6:AG:16:ARG:HH11	6:AG:16:ARG:CG	2.28	0.46
7:AH:46:GLU:OE2	7:AH:51:ARG:HD2	2.15	0.46
8:AK:129:THR:HA	8:AK:137:PRO:HA	1.98	0.46
9:AM:21:LYS:O	9:AM:22:THR:O	2.34	0.46
11:AO:1:MET:CE	11:AO:5:ASP:HB3	2.36	0.46
11:AO:54:GLY:O	11:AO:56:SER:N	2.48	0.46
15:AR:50:ILE:HD12	15:AR:99:LEU:O	2.15	0.46
17:A2:4:ILE:HG22	17:A2:39:LEU:HD23	1.96	0.46
19:AT:47:PHE:O	19:AT:49:VAL:HG23	2.15	0.46
20:AU:101:LYS:HE2	20:AU:101:LYS:HB3	1.59	0.46
21:AV:98:MET:CE	21:AV:100:VAL:HG22	2.44	0.46
30:A8:53:PRO:O	30:A8:54:GLU:C	2.56	0.46
1:BA:7:G:O2'	1:BA:8:A:H5'	2.14	0.46
1:BA:363(B):G:O2'	1:BA:363(C):G:H5'	2.16	0.46
1:BA:839:U:H2'	1:BA:840:C:C6	2.51	0.46
1:BA:1003:G:N2	1:BA:1153:C:C2	2.83	0.46
1:BA:1093:G:H2'	1:BA:1094:U:H5'	1.97	0.46
1:BA:1239:G:H2'	1:BA:1240:U:O4'	2.15	0.46
1:BA:1728:G:H5''	1:BA:1728:G:N3	2.29	0.46
1:BA:2094:G:C2'	1:BA:2095:C:H5'	2.45	0.46
1:BA:2516:G:C6	1:BA:2517:C:N4	2.83	0.46
1:BA:2602:A:OP1	53:DC:76:C:OP1	2.33	0.46
1:BA:2633:G:H1'	4:BE:62:PRO:HG2	1.97	0.46
2:BB:88:C:H3'	2:BB:89:G:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:136:THR:HG23	5:BF:166:ALA:O	2.15	0.46
6:BG:165:THR:OG1	6:BG:168:GLU:HG3	2.15	0.46
11:BO:50:ARG:NH2	11:BO:50:ARG:HB2	2.30	0.46
12:BP:54:MET:O	12:BP:55:VAL:C	2.59	0.46
12:BP:87:LYS:HG3	12:BP:88:GLY:N	2.27	0.46
15:BR:107:ASP:OD2	15:BR:109:GLU:HB2	2.15	0.46
17:B2:20:LEU:O	17:B2:94:LEU:N	2.44	0.46
17:B2:80:GLN:NE2	17:B2:80:GLN:CA	2.63	0.46
26:B4:52:THR:HG21	43:DP:73:GLU:CD	2.39	0.46
31:CA:95:G:C6	31:CA:96:G:C6	3.04	0.46
31:CA:118:U:H3'	31:CA:288:A:H61	1.80	0.46
31:CA:192:U:H1'	50:CW:103:GLY:O	2.16	0.46
31:CA:375:U:OP1	46:CS:69:THR:HG21	2.15	0.46
31:CA:453:A:C6	31:CA:454:C:C4	3.03	0.46
31:CA:557:G:N1	31:CA:558:G:C2	2.84	0.46
31:CA:585:G:O2'	31:CA:879:C:H5''	2.16	0.46
31:CA:1275:A:C6	31:CA:1276:G:C5	3.03	0.46
31:CA:1502:A:H2	31:CA:1505:G:H1	1.63	0.46
32:CE:84:GLU:OE1	32:CE:216:SER:HA	2.14	0.46
37:CJ:92:SER:O	37:CJ:96:GLN:HG3	2.15	0.46
38:CK:102:ARG:HB3	38:CK:102:ARG:CZ	2.44	0.46
45:CR:27:VAL:O	45:CR:31:LEU:HB2	2.15	0.46
45:CR:56:LEU:O	45:CR:60:VAL:HG23	2.16	0.46
45:CR:56:LEU:HD12	45:CR:60:VAL:HG23	1.97	0.46
47:CT:68:ARG:O	47:CT:68:ARG:HG3	2.15	0.46
47:CT:70:ARG:C	47:CT:71:PHE:HD2	2.24	0.46
53:CD:19:G:O2'	53:CD:59:A:N3	2.46	0.46
31:DA:87:A:C2	31:DA:88:C:C5	3.02	0.46
31:DA:151:A:C2	31:DA:152:A:H1'	2.50	0.46
31:DA:555:C:H2'	31:DA:556:C:C6	2.50	0.46
31:DA:754:C:O5'	45:DR:72:ARG:NH2	2.48	0.46
31:DA:828:A:H5''	31:DA:859:A:C2	2.51	0.46
31:DA:1083:U:C5	31:DA:1084:G:C5	3.04	0.46
31:DA:1177:G:H5''	31:DA:1178:G:P	2.55	0.46
31:DA:1222:G:H2'	31:DA:1223:C:O4'	2.15	0.46
31:DA:1329:A:OP1	43:DP:25:ILE:O	2.32	0.46
32:DE:5:ILE:O	32:DE:5:ILE:CG2	2.63	0.46
32:DE:95:GLN:O	32:DE:96:ARG:C	2.57	0.46
32:DE:189:ASP:OD1	32:DE:189:ASP:N	2.47	0.46
34:DG:9:CYS:SG	34:DG:31:CYS:O	2.74	0.46
34:DG:14:ARG:HG3	34:DG:14:ARG:HH11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DI:96:PRO:HB3	48:DU:30:ASP:OD1	2.14	0.46
37:DJ:43:PHE:O	37:DJ:47:CYS:N	2.45	0.46
43:DP:73:GLU:O	43:DP:77:ASN:HB2	2.16	0.46
46:DS:34:GLU:OE2	46:DS:55:ARG:NH1	2.48	0.46
47:DT:10:VAL:HA	47:DT:20:THR:O	2.16	0.46
1:AA:232:G:H4'	1:AA:233:A:OP1	2.16	0.46
1:AA:495:G:C6	1:AA:496:G:C5	3.03	0.46
1:AA:548:A:H2'	1:AA:549:G:C5'	2.45	0.46
1:AA:673:C:H5''	5:AF:81:PRO:HD2	1.97	0.46
1:AA:943:U:OP2	11:AO:36:LYS:CE	2.64	0.46
1:AA:988:A:H8	1:AA:988:A:O5'	1.98	0.46
1:AA:1336:A:H2'	1:AA:1337:G:H8	1.79	0.46
1:AA:1558:A:H1'	1:AA:1559:G:OP2	2.16	0.46
1:AA:2120:G:C2	1:AA:2121:G:C5	3.04	0.46
1:AA:2599:G:O2'	1:AA:2600:A:H5'	2.15	0.46
1:AA:2627:G:N2	1:AA:2777:G:OP2	2.47	0.46
1:AA:2665:A:H2'	1:AA:2666:C:O5'	2.16	0.46
1:AA:2681:C:O2'	1:AA:2682:U:P	2.74	0.46
2:AB:7:G:H2'	2:AB:8:U:O4'	2.15	0.46
2:AB:73:A:C3'	2:AB:74:U:H5'	2.45	0.46
5:AF:197:ASP:O	5:AF:198:ALA:CB	2.63	0.46
6:AG:23:PHE:HB2	6:AG:25:TYR:CE2	2.51	0.46
7:AH:153:LYS:CD	7:AH:153:LYS:N	2.75	0.46
8:AK:140:LEU:HD23	8:AK:140:LEU:O	2.16	0.46
11:AO:2:LYS:HG2	11:AO:3:LEU:N	2.30	0.46
20:AU:46:LYS:O	20:AU:47:LYS:C	2.57	0.46
21:AV:53:ILE:HA	21:AV:71:VAL:HG13	1.97	0.46
1:BA:307:G:H22	1:BA:310:A:P	2.38	0.46
1:BA:470:A:OP1	5:BF:59:TYR:HE2	1.98	0.46
1:BA:844:C:N4	1:BA:845:G:N1	2.62	0.46
1:BA:1501:C:O4'	3:BD:100:GLY:HA2	2.16	0.46
1:BA:1527:G:O5'	1:BA:1528:A:OP1	2.34	0.46
1:BA:1538:G:C4	1:BA:1539:G:C8	3.03	0.46
1:BA:1638:C:O2	1:BA:2698:U:O2'	2.33	0.46
1:BA:2199:A:H3'	1:BA:2205:C:C6	2.50	0.46
1:BA:2343:C:HO2'	1:BA:2373:G:HO2'	1.59	0.46
1:BA:2784:C:O5'	1:BA:2784:C:H6	1.98	0.46
1:BA:2892:A:N6	1:BA:2893:G:C2	2.84	0.46
3:BD:35:LYS:HG2	3:BD:64:ILE:HG12	1.97	0.46
5:BF:22:ALA:O	5:BF:24:LEU:O	2.33	0.46
7:BH:153:LYS:O	7:BH:161:GLY:CA	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BN:97:ARG:NH2	10:BN:99:PHE:HE1	2.13	0.46
11:BO:6:LEU:HB3	11:BO:7:ARG:H	1.61	0.46
11:BO:9:ASN:O	11:BO:10:PRO:C	2.59	0.46
12:BP:26:TYR:C	12:BP:26:TYR:CD2	2.91	0.46
21:BV:115:GLY:H	21:BV:177:PRO:CD	2.29	0.46
21:BV:124:ILE:HD11	21:BV:165:VAL:HG11	1.97	0.46
21:BV:158:PRO:CB	21:BV:159:PRO:HD2	2.46	0.46
21:BV:170:THR:C	21:BV:171:ILE:HG13	2.40	0.46
26:B4:13:ARG:O	26:B4:29:PRO:O	2.33	0.46
31:CA:545:C:OP1	34:CG:61:LYS:NZ	2.48	0.46
31:CA:1002:G:C2'	31:CA:1003:G:H8	2.27	0.46
34:CG:4:TYR:C	34:CG:5:ILE:HG12	2.40	0.46
41:CN:21:ILE:HD13	41:CN:94:ALA:CB	2.46	0.46
42:CO:50:ARG:HH12	42:CO:89:ASP:HB3	1.79	0.46
43:CP:81:LEU:O	43:CP:89:GLY:HA3	2.15	0.46
52:CB:59:U:O2'	52:CB:70:G:C4'	2.63	0.46
31:DA:84:U:O2	31:DA:84:U:C2'	2.59	0.46
31:DA:509:A:H2'	31:DA:510:A:C8	2.50	0.46
31:DA:777:A:C2	41:DN:119:CYS:HB3	2.51	0.46
31:DA:830:G:N2	31:DA:857:C:C2	2.83	0.46
31:DA:1243:C:O2	31:DA:1295:G:N2	2.48	0.46
31:DA:1489:G:H2'	31:DA:1490:C:O4'	2.16	0.46
32:DE:22:LYS:HA	32:DE:22:LYS:HD3	1.78	0.46
32:DE:237:ALA:H	32:DE:239:VAL:HB	1.80	0.46
33:DF:63:ASN:HD22	33:DF:64:VAL:H	1.64	0.46
33:DF:66:VAL:HG12	33:DF:66:VAL:O	2.15	0.46
33:DF:79:ARG:C	33:DF:81:GLY:H	2.22	0.46
33:DF:181:ASN:HB3	33:DF:205:GLY:O	2.15	0.46
39:DL:53:VAL:C	39:DL:55:ALA:H	2.23	0.46
39:DL:122:ALA:HB1	39:DL:123:PRO:HD2	1.98	0.46
40:DM:8:LEU:HG	40:DM:96:ILE:CG2	2.46	0.46
53:DD:60:A:C2'	53:DD:61:U:H5'	2.46	0.46
53:DD:69:C:H2'	53:DD:70:C:O4'	2.16	0.46
1:AA:74:A:H8	1:AA:74:A:C5'	2.28	0.46
1:AA:218:A:H2'	1:AA:219:G:O4'	2.16	0.46
1:AA:676:A:H8	1:AA:2069:G:N2	2.03	0.46
1:AA:738:G:C6	1:AA:739:G:C2	3.03	0.46
1:AA:747:U:O2	1:AA:2014:A:H1'	2.16	0.46
1:AA:950:G:C5	1:AA:951:C:C4	3.04	0.46
1:AA:1400:G:H2'	1:AA:1401:G:C8	2.50	0.46
1:AA:1488:G:C6	1:AA:1489:U:N3	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1581:G:C5	1:AA:1582:C:C4	3.04	0.46
1:AA:1666:G:O2'	1:AA:1667:G:H5'	2.16	0.46
1:AA:1869:G:H8	1:AA:1869:G:C5'	2.19	0.46
1:AA:2098:U:N3	1:AA:2099:U:C5	2.83	0.46
1:AA:2334:G:N3	14:AQ:12:PHE:CD2	2.84	0.46
1:AA:2390:U:O2'	1:AA:2391:G:H5'	2.16	0.46
1:AA:2693:A:H2'	1:AA:2694:G:C8	2.45	0.46
5:AF:149:ASP:OD2	5:AF:151:SER:HB3	2.15	0.46
7:AH:102:ALA:CB	7:AH:116:GLU:HB2	2.45	0.46
7:AH:149:ARG:HA	7:AH:162:ILE:HG21	1.96	0.46
16:A1:61:TRP:CD2	16:A1:94:ASN:HA	2.51	0.46
16:A1:66:ASN:CB	16:A1:76:TYR:HB2	2.45	0.46
18:AS:29:LEU:HD11	18:AS:55:ALA:HB2	1.98	0.46
21:AV:105:VAL:CG1	21:AV:140:ASP:HB3	2.44	0.46
1:BA:681:G:H2'	1:BA:682:G:O4'	2.16	0.46
1:BA:729:G:C5	3:BD:208:LYS:HB2	2.50	0.46
1:BA:876:C:N4	1:BA:877:U:O4	2.48	0.46
1:BA:945:A:C8	1:BA:2448:A:C2	3.03	0.46
1:BA:1157:G:O2'	1:BA:1158:C:H5'	2.15	0.46
1:BA:1288:U:H4'	1:BA:1289:C:OP2	2.16	0.46
1:BA:1342:A:C6	1:BA:1602:U:N3	2.75	0.46
1:BA:1364:G:C8	23:BZ:2:SER:HA	2.51	0.46
1:BA:1472:A:O2'	1:BA:1473:G:H5'	2.14	0.46
1:BA:1487:G:H1	1:BA:1502:C:N4	2.14	0.46
1:BA:1498:C:O4'	1:BA:1577:C:H4'	2.15	0.46
1:BA:1593:G:H2'	1:BA:1594:G:C8	2.51	0.46
1:BA:1655:A:O2'	4:BE:115:GLY:HA2	2.16	0.46
1:BA:1668:A:N7	1:BA:1674:G:C6	2.83	0.46
1:BA:1686:C:H2'	1:BA:1687:G:H5'	1.97	0.46
1:BA:1973:G:O2'	1:BA:1974:C:H5'	2.15	0.46
1:BA:2074:U:H4'	1:BA:2598:A:O4'	2.16	0.46
1:BA:2142:C:H2'	1:BA:2143:C:C6	2.50	0.46
1:BA:2556:C:H2'	1:BA:2557:G:O4'	2.15	0.46
1:BA:2724:C:OP1	4:BE:118:LYS:HE3	2.15	0.46
1:BA:2748:A:C2	1:BA:2749:A:C4	3.04	0.46
2:BB:65:C:C4	2:BB:108:C:C6	3.03	0.46
2:BB:73:A:H3'	2:BB:74:U:H6	1.80	0.46
4:BE:134:ILE:C	4:BE:134:ILE:CD1	2.89	0.46
5:BF:161:GLU:HB3	5:BF:162:LEU:HD12	1.96	0.46
13:B0:28:LEU:HD23	13:B0:28:LEU:HA	1.79	0.46
14:BQ:51:ALA:CB	14:BQ:73:LEU:HD23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B3:43:THR:O	22:B3:44:ARG:C	2.57	0.46
22:B3:60:PHE:N	22:B3:60:PHE:CD2	2.83	0.46
28:B6:9:LEU:N	28:B6:27:LYS:HA	2.30	0.46
28:B6:28:ARG:CG	28:B6:31:PRO:HD2	2.45	0.46
31:CA:129:U:H5'	47:CT:3:LYS:NZ	2.31	0.46
31:CA:690:G:H22	41:CN:55:LYS:HZ2	1.63	0.46
31:CA:778:G:H1'	41:CN:119:CYS:HB3	1.98	0.46
31:CA:1239:A:N6	31:CA:1299:A:H62	2.08	0.46
31:CA:1321:C:H3'	31:CA:1322:C:C5'	2.30	0.46
31:CA:1346:A:O3'	31:CA:1347:G:H4'	2.15	0.46
31:CA:1410:G:O2'	31:CA:1411:C:H5'	2.16	0.46
32:CE:59:GLU:HB2	32:CE:221:LEU:HD11	1.97	0.46
34:CG:133:VAL:HG11	34:CG:138:TYR:CD1	2.47	0.46
35:CH:69:VAL:HG12	35:CH:71:LEU:CD2	2.46	0.46
37:CJ:49:ILE:H	37:CJ:49:ILE:HG12	1.47	0.46
39:CL:86:VAL:HG21	39:CL:102:LEU:HD11	1.98	0.46
42:CO:50:ARG:HB3	42:CO:90:LEU:HD11	1.96	0.46
43:CP:8:GLU:O	43:CP:10:PRO:HD3	2.15	0.46
49:CV:40:ILE:HD11	49:CV:62:ILE:CG2	2.45	0.46
53:CC:56:U:O2	53:CC:58:A:C8	2.68	0.46
31:DA:91:C:H5'	31:DA:92:G:OP2	2.15	0.46
31:DA:198:G:OP2	31:DA:198:G:C8	2.67	0.46
31:DA:757:U:O2'	31:DA:879:C:H1'	2.16	0.46
31:DA:1092:A:C2	31:DA:1183:A:C2	3.04	0.46
31:DA:1127:G:H1'	31:DA:1147:C:N4	2.30	0.46
31:DA:1288:A:O2'	31:DA:1289:A:H5'	2.16	0.46
31:DA:1392:G:H21	31:DA:1502:A:H8	1.63	0.46
31:DA:1434:A:H61	31:DA:1467:G:H1'	1.79	0.46
34:DG:162:LEU:HD23	34:DG:162:LEU:HA	1.84	0.46
35:DH:39:GLY:HA2	35:DH:113:ALA:O	2.16	0.46
37:DJ:43:PHE:O	37:DJ:47:CYS:HB2	2.14	0.46
37:DJ:131:LYS:NZ	37:DJ:131:LYS:HB2	2.31	0.46
38:DK:33:GLU:OE1	38:DK:50:ARG:HD2	2.16	0.46
38:DK:120:THR:H	38:DK:123:GLU:HG3	1.79	0.46
1:AA:34:C:HO2'	1:AA:35:G:P	2.33	0.46
1:AA:223:A:HO2'	1:AA:420:C:HO2'	1.64	0.46
1:AA:232:G:OP2	1:AA:232:G:C8	2.57	0.46
1:AA:654(I):C:H5'	1:AA:654(J):A:OP2	2.16	0.46
1:AA:1005:C:O2'	9:AM:28:THR:CG2	2.64	0.46
1:AA:1688:U:H2'	1:AA:1698:A:N6	2.31	0.46
1:AA:1885:A:H2'	1:AA:1886:C:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2311:A:C4	6:AG:80:PHE:HE1	2.16	0.46
1:AA:2431:U:O2	1:AA:2433:A:C8	2.68	0.46
1:AA:2591:C:OP1	3:AD:239:ARG:NH2	2.49	0.46
3:AD:5:LYS:C	3:AD:6:PHE:CD1	2.94	0.46
6:AG:114:ILE:CD1	6:AG:140:ILE:HG21	2.41	0.46
13:A0:44:LEU:HD22	13:A0:44:LEU:O	2.15	0.46
19:AT:63:LYS:HE2	19:AT:63:LYS:HB3	1.75	0.46
19:AT:87:GLN:HE21	19:AT:87:GLN:HB2	1.48	0.46
21:AV:19:ARG:NH1	21:AV:84:GLU:HB2	2.30	0.46
22:A3:19:LYS:O	22:A3:20:ARG:C	2.58	0.46
27:A5:40:LYS:HG2	27:A5:47:PRO:CD	2.38	0.46
1:BA:372:G:O2'	1:BA:373:U:OP2	2.32	0.46
1:BA:1050:A:H2'	1:BA:1051:G:O4'	2.16	0.46
1:BA:1071:G:C4	1:BA:1089:G:H2'	2.51	0.46
1:BA:1105:U:O2'	1:BA:1106:G:H5'	2.16	0.46
1:BA:1182:A:H2'	1:BA:1183:G:C8	2.51	0.46
1:BA:1278:A:O2'	13:B0:34:ILE:HD11	2.16	0.46
1:BA:1356:G:C5	1:BA:1357:U:C5	3.03	0.46
1:BA:2056:G:N2	27:B5:5:PRO:O	2.48	0.46
1:BA:2063:C:H2'	1:BA:2064:C:H5'	1.97	0.46
1:BA:2156:G:N1	1:BA:2157:G:N2	2.64	0.46
1:BA:2542:A:H5'	1:BA:2543:G:OP1	2.15	0.46
1:BA:2785:C:O2'	4:BE:64:LYS:NZ	2.48	0.46
5:BF:128:ALA:O	5:BF:129:PHE:C	2.59	0.46
6:BG:16:ARG:N	6:BG:17:PRO:HD2	2.30	0.46
7:BH:20:ALA:HB1	7:BH:21:PRO:HD2	1.98	0.46
7:BH:20:ALA:O	7:BH:22:GLY:N	2.48	0.46
8:BK:91:SER:OG	31:CA:368:U:P	2.74	0.46
9:BM:18:ALA:HA	9:BM:21:LYS:HD2	1.97	0.46
10:BN:35:VAL:HG21	10:BN:69:ILE:CD1	2.46	0.46
11:BO:19:VAL:HG22	11:BO:27:HIS:HB3	1.88	0.46
16:B1:8:VAL:HG12	16:B1:11:ARG:HH21	1.80	0.46
17:B2:76:LYS:CG	17:B2:80:GLN:HG2	2.43	0.46
18:BS:19:LEU:HB3	27:B5:25:LEU:HD12	1.97	0.46
21:BV:10:ARG:HH21	21:BV:26:GLY:H	1.63	0.46
21:BV:141:VAL:HG21	21:BV:150:LEU:HG	1.97	0.46
27:B5:52:TYR:O	27:B5:53:ALA:HB3	2.15	0.46
28:B6:34:LEU:O	28:B6:35:GLU:HB2	2.14	0.46
28:B6:51:GLU:HG2	28:B6:52:VAL:N	2.30	0.46
31:CA:90:C:C5	31:CA:91:C:H5	2.33	0.46
31:CA:292:G:N7	31:CA:293:G:H1'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:451:A:N6	31:CA:480:U:H2'	2.30	0.46
31:CA:686:U:C2'	31:CA:687:A:O5'	2.63	0.46
31:CA:1004:A:C1'	31:CA:1036:G:O6	2.64	0.46
31:CA:1054:C:O2'	31:CA:1055:A:C5'	2.64	0.46
31:CA:1130:A:O5'	31:CA:1131:G:P	2.74	0.46
31:CA:1156:G:C2'	31:CA:1157:A:H5''	2.45	0.46
31:CA:1256:A:C2	31:CA:1277:C:C5	3.04	0.46
32:CE:210:SER:O	32:CE:214:ILE:HG12	2.16	0.46
34:CG:155:LEU:O	34:CG:157:LEU:N	2.48	0.46
36:CI:47:ARG:HD2	36:CI:47:ARG:HA	1.85	0.46
37:CJ:155:ARG:O	37:CJ:155:ARG:HD3	2.16	0.46
38:CK:4:ASP:OD2	38:CK:7:ALA:N	2.37	0.46
39:CL:25:LYS:HE3	39:CL:25:LYS:HB2	1.71	0.46
39:CL:42:ARG:HE	39:CL:42:ARG:HB2	1.61	0.46
50:CW:100:ILE:CG1	50:CW:101:GLY:H	2.29	0.46
31:DA:92:G:C2	31:DA:93:U:C2	3.03	0.46
31:DA:862:C:O4'	31:DA:874:G:H4'	2.16	0.46
31:DA:890:G:O2'	31:DA:906:G:O6	2.32	0.46
31:DA:941:G:H2'	31:DA:942:G:O5'	2.15	0.46
31:DA:1051:C:H2'	31:DA:1052:U:C6	2.51	0.46
31:DA:1521:G:H2'	31:DA:1522:U:H6	1.81	0.46
43:DP:34:LEU:O	43:DP:38:GLY:HA2	2.16	0.46
43:DP:102:ARG:HH11	43:DP:105:THR:HG23	1.79	0.46
43:DP:106:ASN:O	43:DP:107:ALA:HB3	2.16	0.46
44:DQ:29:ARG:HH21	44:DQ:42:ILE:HG12	1.80	0.46
52:DB:37:G:C4	52:DB:38:G:C8	3.04	0.46
1:AA:58:G:N2	1:AA:70:G:C4	2.84	0.46
1:AA:483:A:O4'	20:AU:47:LYS:HB3	2.16	0.46
1:AA:515:A:H2'	1:AA:516:C:H5'	1.98	0.46
1:AA:638:G:H2'	1:AA:639:U:C6	2.51	0.46
1:AA:699:A:H2'	1:AA:700:G:O4'	2.16	0.46
1:AA:881:G:C5'	1:AA:882:G:O5'	2.64	0.46
1:AA:1063:G:N2	1:AA:1076:C:H1'	2.29	0.46
1:AA:1263:U:O3'	27:A5:11:THR:HG23	2.16	0.46
1:AA:1329:U:H5''	1:AA:1330:C:C5	2.41	0.46
1:AA:1408:C:O2'	1:AA:1409:C:H5'	2.15	0.46
1:AA:1578:U:O2	1:AA:1578:U:C2'	2.64	0.46
1:AA:1677:A:H2'	1:AA:1678:G:C8	2.51	0.46
1:AA:2117:A:H62	1:AA:2172:U:H3	1.58	0.46
1:AA:2830:G:N3	1:AA:2883:A:H2	2.13	0.46
2:AB:12:C:C2	22:A3:74:ARG:NH1	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:108:SER:O	4:AE:162:ALA:HA	2.15	0.46
5:AF:9:ILE:HD13	5:AF:9:ILE:O	2.16	0.46
7:AH:7:LEU:H	7:AH:7:LEU:HD12	1.81	0.46
9:AM:60:ILE:H	9:AM:60:ILE:CD1	2.16	0.46
11:AO:15:ARG:NH1	11:AO:15:ARG:CB	2.75	0.46
11:AO:18:ARG:NH2	11:AO:21:ARG:HD3	2.31	0.46
14:AQ:85:VAL:HG23	14:AQ:112:PHE:HE1	1.80	0.46
14:AQ:93:LYS:HG2	14:AQ:94:TYR:N	2.30	0.46
16:A1:60:LEU:HD11	16:A1:64:ARG:HD2	1.97	0.46
17:A2:8:GLY:O	17:A2:10:LYS:HE3	2.15	0.46
18:AS:86:LEU:HD12	18:AS:87:PRO:CD	2.46	0.46
25:AX:11:SER:OG	25:AX:13:ILE:HG12	2.16	0.46
1:BA:88:G:O2'	1:BA:89:G:H5'	2.15	0.46
1:BA:110:G:C2	1:BA:111:A:C8	3.03	0.46
1:BA:273(C):C:H5'	1:BA:273(D):C:OP2	2.15	0.46
1:BA:1047:G:N2	1:BA:1111:A:N6	2.64	0.46
1:BA:1110:G:H4'	7:BH:3:ARG:HH12	1.80	0.46
1:BA:1111:A:H4'	7:BH:3:ARG:CD	2.35	0.46
1:BA:1476:C:C2'	1:BA:1477:A:H5'	2.45	0.46
1:BA:1507:A:H2'	1:BA:1508:A:O4'	2.16	0.46
1:BA:1589:C:H2'	1:BA:1590:U:C6	2.51	0.46
1:BA:1665:A:C2'	1:BA:1666:G:H5'	2.46	0.46
1:BA:1754:C:OP2	15:BR:113:LYS:HE3	2.16	0.46
1:BA:2392:A:P	30:B8:32:LEU:HD11	2.55	0.46
1:BA:2838:G:C4	1:BA:2839:G:C8	3.04	0.46
1:BA:2898:U:H2'	1:BA:2899:G:C8	2.50	0.46
3:BD:158:ALA:HB3	3:BD:161:THR:CG2	2.46	0.46
4:BE:4:ILE:HG13	4:BE:28:ALA:HB1	1.97	0.46
4:BE:45:THR:HG22	4:BE:45:THR:O	2.15	0.46
5:BF:110:LEU:HD13	5:BF:205:ARG:HG2	1.97	0.46
6:BG:7:LEU:HD22	6:BG:100:TRP:CE3	2.51	0.46
7:BH:107:VAL:HG12	7:BH:107:VAL:O	2.15	0.46
13:B0:57:ARG:HB3	13:B0:59:ASP:OD2	2.16	0.46
14:BQ:18:ILE:O	14:BQ:21:THR:HG22	2.15	0.46
14:BQ:93:LYS:HB2	14:BQ:93:LYS:HE3	1.68	0.46
14:BQ:106:ARG:O	14:BQ:107:GLU:HB2	2.15	0.46
17:B2:43:GLU:OE2	17:B2:43:GLU:HA	2.14	0.46
21:BV:175:VAL:HG22	21:BV:176:PRO:CD	2.16	0.46
22:B3:23:VAL:HG13	22:B3:38:VAL:HG22	1.98	0.46
24:BW:15:LYS:HD3	24:BW:67:LYS:CE	2.45	0.46
28:B6:10:LEU:HD12	28:B6:10:LEU:N	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:402:G:C6	31:CA:403:C:C4	3.03	0.46
31:CA:403:C:O2'	31:CA:404:U:H5'	2.16	0.46
31:CA:442:C:H42	31:CA:492:G:H1	1.63	0.46
31:CA:453:A:C5	31:CA:454:C:C5	3.03	0.46
31:CA:766:A:C8	31:CA:814:A:N6	2.83	0.46
31:CA:1164:G:C6	31:CA:1165:C:C4	3.03	0.46
31:CA:1177:G:O6	31:CA:1182:G:O6	2.33	0.46
31:CA:1279:A:H5''	31:CA:1280:A:OP2	2.16	0.46
31:CA:1358:U:H2'	31:CA:1359:C:O4'	2.15	0.46
32:CE:31:TYR:HE1	32:CE:194:PRO:HB3	1.81	0.46
32:CE:111:ARG:HA	32:CE:111:ARG:HH11	1.80	0.46
33:CF:58:GLU:HB2	33:CF:65:ALA:HB2	1.97	0.46
34:CG:20:TYR:CE1	36:DI:15:ASP:HB2	2.51	0.46
34:CG:108:LEU:HD23	34:CG:110:PHE:HE1	1.81	0.46
34:CG:173:TRP:NE1	34:CG:174:LEU:HG	2.30	0.46
35:CH:29:GLY:HA2	35:CH:46:GLY:O	2.16	0.46
36:CI:11:ASN:OD1	36:CI:12:PRO:HD2	2.15	0.46
39:CL:10:ARG:HE	39:CL:105:ASP:CG	2.23	0.46
45:CR:38:ARG:NH1	45:CR:38:ARG:CG	2.77	0.46
49:CV:8:GLY:O	49:CV:9:VAL:C	2.59	0.46
53:CD:19:G:H5'	53:CD:20:G:P	2.55	0.46
31:DA:197:A:H1'	31:DA:198:G:O4'	2.15	0.46
31:DA:390:C:O2'	46:DS:28:ARG:NH1	2.48	0.46
31:DA:631:G:C3'	31:DA:632:A:H8	2.29	0.46
31:DA:973:G:C1'	40:DM:55:LYS:HE2	2.46	0.46
31:DA:978:A:C5'	31:DA:979:C:OP2	2.64	0.46
31:DA:1173:G:H2'	31:DA:1174:G:O4'	2.16	0.46
31:DA:1347:G:C6	39:DL:107:ARG:NH2	2.84	0.46
31:DA:1521:G:H2'	31:DA:1522:U:C6	2.51	0.46
32:DE:223:ILE:O	32:DE:226:ARG:N	2.46	0.46
33:DF:92:ALA:HA	33:DF:95:THR:O	2.16	0.46
34:DG:65:ARG:HD2	34:DG:72:GLU:HA	1.98	0.46
34:DG:91:SER:OG	34:DG:191:ARG:HG3	2.16	0.46
35:DH:107:ARG:HG2	35:DH:108:ALA:N	2.30	0.46
37:DJ:149:ARG:O	37:DJ:150:ALA:C	2.57	0.46
40:DM:47:PHE:CZ	44:DQ:37:PHE:CE2	3.04	0.46
40:DM:49:VAL:O	40:DM:60:ARG:HB2	2.15	0.46
49:DV:64:GLU:CD	49:DV:64:GLU:H	2.24	0.46
50:DW:50:GLU:CD	50:DW:100:ILE:HG12	2.40	0.46
1:AA:234:C:C2	1:AA:235:U:C6	3.03	0.46
1:AA:414:C:H2'	1:AA:415:A:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:989:G:N7	25:AX:13:ILE:CD1	2.79	0.46
1:AA:996:A:H4'	16:A1:92:ARG:NE	2.31	0.46
1:AA:1046:A:O2'	1:AA:1047:G:OP1	2.29	0.46
1:AA:1756:G:H4'	1:AA:1758:G:O4'	2.16	0.46
1:AA:2139:C:C2'	1:AA:2140:C:H5'	2.45	0.46
1:AA:2168:G:N2	1:AA:2170:A:P	2.88	0.46
1:AA:2209:C:C2	1:AA:2216:G:C2	3.03	0.46
1:AA:2311:A:C2	6:AG:80:PHE:CE1	3.04	0.46
3:AD:137:PRO:HG2	3:AD:140:THR:HG21	1.98	0.46
5:AF:29:ASN:N	5:AF:112:MET:CE	2.59	0.46
5:AF:52:LYS:HA	5:AF:56:GLU:OE1	2.15	0.46
5:AF:142:TRP:CE3	5:AF:143:ALA:HA	2.51	0.46
6:AG:5:VAL:HG11	6:AG:100:TRP:HB3	1.97	0.46
12:AP:30:GLY:HA2	12:AP:107:ALA:HB2	1.98	0.46
12:AP:79:LEU:C	12:AP:81:VAL:H	2.23	0.46
13:A0:17:ARG:O	13:A0:20:LEU:HB3	2.16	0.46
16:A1:85:LYS:C	16:A1:87:GLY:N	2.72	0.46
17:A2:29:PRO:O	17:A2:61:VAL:O	2.34	0.46
18:AS:1:MET:HG3	18:AS:64:MET:CE	2.46	0.46
20:AU:49:VAL:CG1	20:AU:50:ARG:H	2.26	0.46
27:A5:37:LYS:O	27:A5:37:LYS:HG3	2.11	0.46
1:BA:273(C):C:C4	1:BA:273(D):C:C5	3.04	0.46
1:BA:686:G:N7	29:B7:5:TRP:CH2	2.84	0.46
1:BA:797:C:H2'	1:BA:798:G:O4'	2.16	0.46
1:BA:956:G:H2'	1:BA:957:A:H2'	1.97	0.46
1:BA:1062:G:H2'	1:BA:1063:G:H8	1.81	0.46
1:BA:1278:A:OP1	13:B0:36:THR:HG22	2.16	0.46
1:BA:2211:G:H4'	1:BA:2212:A:OP2	2.16	0.46
1:BA:2310:A:H5'	1:BA:2311:A:OP2	2.16	0.46
1:BA:2378:A:C5	1:BA:2379:G:H1'	2.51	0.46
1:BA:2406:U:H2'	1:BA:2406:U:OP2	2.15	0.46
1:BA:2550:G:H2'	1:BA:2551:C:H5'	1.98	0.46
1:BA:2591:C:H2'	1:BA:2592:G:C8	2.51	0.46
1:BA:2635:C:H2'	1:BA:2636:U:O5'	2.15	0.46
1:BA:2687:U:C4	1:BA:2688:U:C5	3.04	0.46
1:BA:2759:G:C2'	1:BA:2760:C:H5'	2.46	0.46
1:BA:2798:C:C5	1:BA:2799:A:N6	2.84	0.46
3:BD:141:VAL:HG23	3:BD:162:SER:HB2	1.96	0.46
4:BE:103:ASP:OD2	4:BE:168:MET:HE2	2.16	0.46
7:BH:10:PRO:HD2	7:BH:50:VAL:O	2.15	0.46
9:BM:19:GLU:HG3	9:BM:59:LYS:CB	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BN:104:ARG:NH1	10:BN:104:ARG:HB3	2.31	0.46
11:BO:38:GLN:HG2	11:BO:45:LEU:HD12	1.96	0.46
12:BP:30:GLY:CA	12:BP:107:ALA:CB	2.71	0.46
16:B1:100:VAL:C	16:B1:102:GLU:H	2.24	0.46
21:BV:139:VAL:HA	21:BV:156:LYS:HE3	1.98	0.46
21:BV:163:LEU:HD13	21:BV:165:VAL:HG23	1.98	0.46
23:BZ:86:SER:N	23:BZ:87:PRO:HD3	2.29	0.46
25:BX:39:ASP:OD1	25:BX:39:ASP:O	2.34	0.46
31:CA:393:A:C6	31:CA:394:G:N7	2.83	0.46
31:CA:544:G:C6	31:CA:545:C:C4	3.04	0.46
31:CA:651:C:H2'	31:CA:652:U:C6	2.51	0.46
31:CA:756:C:H2'	31:CA:757:U:O4'	2.15	0.46
31:CA:763:G:C4	31:CA:764:C:C6	3.04	0.46
31:CA:1028(A):C:N4	31:CA:1028(B):C:H41	2.13	0.46
31:CA:1112:C:N3	33:CF:178:LEU:HD23	2.31	0.46
31:CA:1122:U:N3	31:CA:1123:A:C5	2.84	0.46
32:CE:24:TRP:CE3	32:CE:26:PRO:HA	2.51	0.46
33:CF:29:TYR:O	33:CF:29:TYR:HD2	1.98	0.46
36:CI:97:PHE:N	48:CU:30:ASP:OD1	2.48	0.46
37:CJ:22:LEU:CD2	37:CJ:62:PHE:HE2	2.24	0.46
42:CO:84:GLY:HA2	42:CO:95:TYR:HA	1.98	0.46
47:CT:79:SER:OG	47:CT:79:SER:O	2.33	0.46
52:CB:47:C:H42	52:CB:56:G:H1	1.64	0.46
31:DA:87:A:C2	31:DA:88:C:C6	3.03	0.46
31:DA:187:C:O2	31:DA:191(A):G:C6	2.68	0.46
31:DA:266:G:H2'	31:DA:266:G:N3	2.30	0.46
31:DA:1139:G:N2	31:DA:1143:G:N1	2.51	0.46
32:DE:178:ARG:HH22	32:DE:196:LEU:HA	1.81	0.46
39:DL:3:GLN:O	39:DL:88:TYR:HE1	1.98	0.46
49:DV:18:LYS:HA	49:DV:21:GLU:HG2	1.97	0.46
53:DD:15:G:N2	53:DD:60:A:C4	2.84	0.46
1:AA:26:G:H1'	1:AA:515:A:N6	2.31	0.46
1:AA:192:C:C2'	1:AA:193:U:H5'	2.45	0.46
1:AA:322:A:C5	1:AA:340:A:C2	3.04	0.46
1:AA:643:A:H2'	1:AA:644:A:O5'	2.15	0.46
1:AA:1162:G:O4'	17:A2:23:GLU:HG3	2.16	0.46
1:AA:1173:G:H4'	1:AA:1174:A:C2	2.50	0.46
1:AA:1263:U:O2'	27:A5:11:THR:HG23	2.16	0.46
1:AA:1474:C:H2'	1:AA:1475:G:C8	2.50	0.46
1:AA:1941:C:C5	1:AA:1965:C:C6	3.03	0.46
1:AA:2481:G:H2'	1:AA:2482:G:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2552:U:C2	1:AA:2554:U:H5'	2.50	0.46
1:AA:2572:A:C8	4:AE:144:ARG:HG3	2.51	0.46
1:AA:2680:C:H5'	4:AE:189:PRO:HA	1.98	0.46
3:AD:26:LYS:HD2	3:AD:26:LYS:H	1.81	0.46
6:AG:166:ASP:OD1	6:AG:166:ASP:N	2.47	0.46
15:AR:115:ARG:O	15:AR:116:ALA:C	2.58	0.46
18:AS:3:ALA:CB	18:AS:64:MET:HE3	2.45	0.46
21:AV:27:VAL:HG22	21:AV:28:MET:H	1.80	0.46
26:A4:61:ARG:C	26:A4:63:TYR:H	2.22	0.46
26:A4:61:ARG:O	26:A4:65:ASP:OD1	2.33	0.46
28:A6:52:VAL:HG22	28:A6:53:LYS:N	2.31	0.46
1:BA:9:U:H3	1:BA:2629:A:H62	1.51	0.46
1:BA:13:A:C2	1:BA:14:A:N6	2.83	0.46
1:BA:35:G:H1'	1:BA:454:A:C4	2.50	0.46
1:BA:566:U:OP1	11:BO:29:LYS:CE	2.62	0.46
1:BA:971:C:H2'	1:BA:972:G:H5'	1.98	0.46
1:BA:1023:U:OP2	1:BA:1024:G:N7	2.49	0.46
1:BA:1313:U:H2'	1:BA:1610:A:C2	2.50	0.46
1:BA:1666:G:H2'	1:BA:1667:G:H5'	1.97	0.46
1:BA:1907:G:C2'	1:BA:1908:C:H5'	2.45	0.46
1:BA:2059:A:H2	1:BA:2062:A:H61	1.62	0.46
1:BA:2180:U:H2'	1:BA:2181:G:O4'	2.15	0.46
1:BA:2517:C:C6	1:BA:2542:A:N1	2.84	0.46
1:BA:2682:U:C6	4:BE:11:MET:HE2	2.50	0.46
1:BA:2855:C:H2'	1:BA:2856:C:C6	2.51	0.46
1:BA:2859:G:H3'	1:BA:2859:G:C8	2.51	0.46
2:BB:3:C:N3	2:BB:117:G:N2	2.47	0.46
8:BK:115:ALA:HB3	8:BK:129:THR:O	2.16	0.46
11:BO:50:ARG:HH21	11:BO:50:ARG:HB2	1.79	0.46
11:BO:136:GLU:O	11:BO:139:LYS:N	2.45	0.46
12:BP:54:MET:O	12:BP:57:HIS:N	2.48	0.46
22:B3:37:LEU:HG	22:B3:60:PHE:HA	1.98	0.46
30:B8:14:VAL:CG1	30:B8:22:VAL:HG13	2.46	0.46
31:CA:201:C:N4	31:CA:209:U:C2	2.84	0.46
31:CA:530:G:H1'	52:CB:36:A:H1'	1.98	0.46
31:CA:659:U:OP1	45:CR:8:LYS:HD3	2.15	0.46
31:CA:1157:A:O2'	31:CA:1158:C:H5''	2.16	0.46
31:CA:1375:A:H4'	37:CJ:29:LYS:HE3	1.98	0.46
34:CG:119:GLN:HE21	34:CG:123:HIS:CD2	2.33	0.46
39:CL:95:LYS:HE2	39:CL:95:LYS:HB2	1.68	0.46
40:CM:22:LYS:HZ3	40:CM:88:LEU:HG	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CM:81:THR:O	40:CM:84:GLN:HB2	2.15	0.46
43:CP:23:TYR:CD1	43:CP:67:GLU:HA	2.48	0.46
45:CR:63:ARG:HG2	45:CR:67:LEU:CD1	2.46	0.46
46:CS:50:LYS:HD3	46:CS:50:LYS:C	2.41	0.46
47:CT:68:ARG:H	47:CT:70:ARG:NH1	2.14	0.46
53:CD:15:G:H2'	53:CD:60:A:H2	1.77	0.46
31:DA:117:G:H2'	31:DA:118:U:O4'	2.16	0.46
31:DA:181:G:H4'	31:DA:182:U:H5'	1.98	0.46
31:DA:452:A:O2'	31:DA:453:A:P	2.74	0.46
31:DA:702:A:H3'	31:DA:703:G:C5'	2.45	0.46
31:DA:878:G:H5''	38:DK:89:PRO:HG2	1.96	0.46
31:DA:1159:U:O2'	31:DA:1160:G:C8	2.67	0.46
31:DA:1175:G:N1	31:DA:1176:A:C6	2.83	0.46
31:DA:1321:C:H4'	43:DP:87:TYR:CE2	2.51	0.46
32:DE:5:ILE:O	32:DE:6:THR:C	2.59	0.46
32:DE:153:ARG:O	32:DE:154:LEU:C	2.59	0.46
32:DE:178:ARG:HH22	32:DE:196:LEU:C	2.24	0.46
35:DH:100:VAL:HG22	35:DH:118:ILE:HG22	1.98	0.46
47:DT:69:LYS:C	47:DT:70:ARG:HD2	2.40	0.46
49:DV:78:ARG:HD3	49:DV:79:THR:H	1.81	0.46
53:DC:22:A:H5''	53:DC:23:G:OP1	2.16	0.46
1:AA:593:G:O3'	30:A8:61:LEU:HD13	2.16	0.46
1:AA:880:G:C6	1:AA:881:G:N7	2.84	0.46
1:AA:889:C:H5''	1:AA:890:A:OP2	2.16	0.46
1:AA:1085:A:N3	1:AA:1086:A:C5	2.84	0.46
1:AA:1381:G:H2'	1:AA:1382:G:H5'	1.97	0.46
1:AA:1401:G:H2'	1:AA:1402:C:C6	2.51	0.46
1:AA:1507:A:N6	1:AA:1508:A:C6	2.84	0.46
1:AA:1531:C:O2'	1:AA:1532:C:H5'	2.16	0.46
1:AA:1673:U:O2'	1:AA:1674:G:H5'	2.16	0.46
1:AA:1795:C:C2	1:AA:1796:U:C6	3.04	0.46
1:AA:1831:G:H2'	1:AA:1832:C:C6	2.51	0.46
1:AA:2297:C:C2'	1:AA:2298:A:H5'	2.45	0.46
1:AA:2415:G:C4	1:AA:2416:C:C6	3.04	0.46
1:AA:2457:U:C2'	1:AA:2458:G:H5'	2.46	0.46
1:AA:2702:U:OP1	1:AA:2702:U:C6	2.63	0.46
1:AA:2721:A:H1'	1:AA:2873:A:O2'	2.15	0.46
2:AB:99:A:C4	2:AB:100:G:C8	3.04	0.46
4:AE:36:ARG:O	4:AE:46:ALA:O	2.33	0.46
11:AO:19:VAL:O	11:AO:20:GLY:C	2.59	0.46
11:AO:111:ARG:HB3	11:AO:128:HIS:CG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AQ:14:VAL:HG21	14:AQ:89:ARG:NE	2.30	0.46
23:AZ:85:LEU:O	23:AZ:87:PRO:CG	2.64	0.46
30:A8:48:PHE:HE2	30:A8:50:LEU:HD13	1.81	0.46
1:BA:444:C:O2'	1:BA:445:C:H5'	2.16	0.46
1:BA:918:A:H1'	2:BB:80:U:O2'	2.15	0.46
1:BA:1314:C:OP1	1:BA:1332:G:H5''	2.16	0.46
1:BA:1944:U:O2	1:BA:1955:U:H5''	2.15	0.46
1:BA:2275:C:HO2'	12:BP:84:GLY:C	2.24	0.46
1:BA:2416:C:OP1	11:BO:64:LYS:O	2.33	0.46
2:BB:15:A:H2'	2:BB:16:G:OP1	2.16	0.46
2:BB:44:G:C2	2:BB:48:A:C2	3.03	0.46
5:BF:89:VAL:C	5:BF:91:GLY:H	2.24	0.46
6:BG:14:GLU:O	6:BG:17:PRO:HG2	2.16	0.46
6:BG:39:ILE:HD11	6:BG:102:PHE:CE1	2.51	0.46
6:BG:115:ARG:NH2	43:DP:7:VAL:HG23	2.30	0.46
6:BG:125:PHE:CD2	6:BG:131:TYR:HB2	2.50	0.46
6:BG:173:LEU:HD13	6:BG:178:PHE:CE1	2.50	0.46
8:BK:102:SER:O	8:BK:106:GLY:N	2.48	0.46
9:BM:128:HIS:HE2	9:BM:134:ARG:CD	2.28	0.46
11:BO:50:ARG:HH21	11:BO:50:ARG:CB	2.28	0.46
15:BR:3:ARG:CZ	15:BR:6:LEU:HD13	2.46	0.46
16:B1:100:VAL:C	16:B1:101:ARG:HG2	2.41	0.46
17:B2:20:LEU:O	17:B2:93:GLU:HA	2.16	0.46
17:B2:35:LEU:O	17:B2:37:VAL:CG2	2.59	0.46
18:BS:54:ALA:HB1	18:BS:107:LEU:HD22	1.98	0.46
20:BU:98:VAL:CG1	20:BU:99:CYS:H	2.29	0.46
21:BV:23:LYS:HD3	21:BV:40:ASP:HA	1.97	0.46
24:BW:14:ARG:NH1	24:BW:66:GLU:OE1	2.47	0.46
26:B4:29:PRO:C	26:B4:30:GLU:HG3	2.40	0.46
31:CA:263:A:OP2	50:CW:79:ARG:NH1	2.49	0.46
31:CA:312:C:H2'	31:CA:313:A:C8	2.51	0.46
31:CA:533:A:C2	31:CA:536:C:C5	3.04	0.46
31:CA:706:A:H2'	31:CA:707:C:H5'	1.98	0.46
31:CA:722:A:H2'	31:CA:724:G:C8	2.51	0.46
31:CA:941:G:N2	31:CA:942:G:H1'	2.30	0.46
31:CA:1091:U:O2	31:CA:1093:A:C8	2.69	0.46
34:CG:107:ARG:HH22	34:CG:194:LEU:HD11	1.80	0.46
34:CG:114:ARG:CG	34:CG:114:ARG:NH1	2.78	0.46
36:CI:97:PHE:CD2	48:CU:31:LEU:HD21	2.51	0.46
37:CJ:20:ASP:HB3	37:CJ:23:VAL:HG23	1.98	0.46
42:CO:116:LYS:O	42:CO:117:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CW:54:LYS:HA	50:CW:57:ARG:NH2	2.31	0.46
53:CD:32:G:N2	53:CD:41:C:C2	2.83	0.46
31:DA:357:G:O2'	31:DA:358:U:H5'	2.15	0.46
31:DA:407:G:H2'	31:DA:408:A:H8	1.80	0.46
31:DA:765:G:N2	31:DA:813:U:OP2	2.45	0.46
31:DA:778:G:O2'	41:DN:119:CYS:HB2	2.16	0.46
31:DA:1086:U:C6	31:DA:1086:U:OP2	2.69	0.46
31:DA:1119:C:OP1	39:DL:83:ARG:NH1	2.49	0.46
31:DA:1121:U:C2	31:DA:1122:U:C6	3.04	0.46
31:DA:1128:C:O2'	31:DA:1129:C:O5'	2.34	0.46
31:DA:1176:A:C6	31:DA:1177:G:C5	3.04	0.46
32:DE:42:ILE:HD13	32:DE:203:GLY:HA2	1.97	0.46
34:DG:39:PRO:O	34:DG:44:GLY:HA3	2.16	0.46
34:DG:138:TYR:CD2	34:DG:139:ARG:N	2.84	0.46
37:DJ:44:TYR:O	37:DJ:48:LYS:HG2	2.16	0.46
37:DJ:66:VAL:O	37:DJ:70:LYS:HG3	2.16	0.46
38:DK:20:TYR:HA	38:DK:65:TYR:CZ	2.51	0.46
39:DL:82:ALA:O	39:DL:86:VAL:HG12	2.16	0.46
43:DP:4:ILE:HD11	43:DP:19:LEU:HD13	1.97	0.46
53:DC:25:U:H2'	53:DC:26:C:O4'	2.15	0.46
1:AA:236:C:H2'	1:AA:237:C:C6	2.51	0.45
1:AA:270(J):G:H2'	1:AA:270(K):C:O4'	2.15	0.45
1:AA:389:G:N1	11:AO:71:VAL:CG1	2.70	0.45
1:AA:459:U:H2'	1:AA:460:A:C8	2.51	0.45
1:AA:559:G:N2	16:A1:49:HIS:CD2	2.78	0.45
1:AA:1021:A:H3'	1:AA:1021:A:C8	2.51	0.45
1:AA:1056:G:C2	1:AA:1103:A:N6	2.63	0.45
1:AA:1142(A):A:C5	1:AA:1144:G:C5	3.04	0.45
1:AA:1152:C:C1'	16:A1:77:SER:HB2	2.45	0.45
1:AA:1479:G:C2	1:AA:1480:G:C4	3.03	0.45
1:AA:1545(A):A:C2'	1:AA:1546:C:H5'	2.46	0.45
1:AA:1575:C:H2'	1:AA:1576:U:C6	2.50	0.45
1:AA:1728:G:C3'	1:AA:1729:A:C5'	2.79	0.45
1:AA:1858:G:H2'	1:AA:1883:G:N2	2.28	0.45
1:AA:1903:G:P	3:AD:241:PRO:HB2	2.56	0.45
1:AA:1951:U:H2'	1:AA:1953:A:OP2	2.16	0.45
1:AA:2014:A:HO2'	27:A5:2:ALA:HB2	1.80	0.45
1:AA:2869:G:H2'	1:AA:2870:C:C6	2.50	0.45
3:AD:10:THR:OG1	3:AD:13:ARG:HB2	2.15	0.45
3:AD:182:LEU:CB	3:AD:271:ILE:HG13	2.45	0.45
4:AE:188:VAL:HA	4:AE:189:PRO:HD3	1.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:40:GLN:OE1	5:AF:184:TYR:HB2	2.16	0.45
6:AG:86:MET:O	6:AG:87:PRO:C	2.52	0.45
8:AK:77:LEU:HD23	8:AK:101:LEU:HD12	1.97	0.45
9:AM:59:LYS:NZ	9:AM:61:ARG:HH22	2.14	0.45
15:AR:23:ARG:NH2	15:AR:120:ARG:HD3	2.31	0.45
17:A2:35:LEU:HD22	17:A2:57:VAL:O	2.15	0.45
20:AU:6:HIS:ND1	20:AU:7:VAL:HG13	2.30	0.45
21:AV:113:ALA:N	21:AV:114:GLY:CA	2.75	0.45
1:BA:588:U:O4	1:BA:670:A:H1'	2.16	0.45
1:BA:669:G:C2'	1:BA:670:A:OP1	2.64	0.45
1:BA:1012:U:C4	1:BA:1143:A:N1	2.83	0.45
1:BA:1083:U:H1'	1:BA:1086:A:H62	1.80	0.45
1:BA:1111:A:O2'	1:BA:1112:G:H4'	2.16	0.45
1:BA:1261:C:H2'	1:BA:1262:A:O5'	2.15	0.45
1:BA:1262:A:N3	27:B5:10:LYS:HE3	2.31	0.45
1:BA:1914:C:O2	1:BA:1914:C:O4'	2.35	0.45
1:BA:1952:A:C6	10:BN:22:ILE:HD12	2.51	0.45
1:BA:1952:A:OP1	10:BN:44:LYS:NZ	2.32	0.45
1:BA:2251:G:N1	53:DC:77:A:N6	2.64	0.45
1:BA:2287:A:N1	1:BA:2346:A:N1	2.64	0.45
1:BA:2317:C:H2'	1:BA:2318:G:H5'	1.97	0.45
1:BA:2517:C:C6	1:BA:2542:A:C2	3.04	0.45
1:BA:2801:A:H5''	1:BA:2895:U:H4'	1.98	0.45
2:BB:24:G:C2	2:BB:56:G:C2	3.05	0.45
4:BE:70:ALA:O	4:BE:72:VAL:N	2.49	0.45
5:BF:9:ILE:O	5:BF:10:PRO:C	2.59	0.45
5:BF:78:ILE:HA	5:BF:83:PHE:HD1	1.78	0.45
6:BG:146:TYR:CD2	6:BG:146:TYR:O	2.69	0.45
8:BK:77:LEU:CG	8:BK:78:THR:N	2.80	0.45
8:BK:79:ILE:HG13	8:BK:140:LEU:HD11	1.98	0.45
9:BM:21:LYS:O	9:BM:60:ILE:HG23	2.17	0.45
9:BM:42:TRP:CD1	16:B1:63:VAL:HG11	2.50	0.45
21:BV:104:PHE:CE1	21:BV:119:GLU:HB3	2.51	0.45
22:B3:18:ALA:HB3	22:B3:20:ARG:HH21	1.81	0.45
22:B3:53:MET:HG3	22:B3:59:LEU:HD23	1.97	0.45
26:B4:48:ARG:HH12	26:B4:51:ASP:CB	2.28	0.45
28:B6:44:ARG:O	28:B6:45:LYS:CD	2.63	0.45
29:B7:19:ARG:HH11	29:B7:19:ARG:CG	2.16	0.45
31:CA:186(E):C:H42	31:CA:191(B):G:H1	1.64	0.45
31:CA:282:A:H2'	31:CA:282:A:N3	2.31	0.45
31:CA:406:G:H4'	34:CG:3:ARG:HH22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:606:G:H1	31:CA:631:G:C5'	2.26	0.45
31:CA:718:G:C4	41:CN:116:HIS:CD2	3.04	0.45
31:CA:1028(A):C:C2	31:CA:1028(B):C:C5	3.04	0.45
31:CA:1112:C:O5'	31:CA:1112:C:H6	1.99	0.45
31:CA:1176:A:H2'	31:CA:1177:G:C5'	2.47	0.45
31:CA:1336:C:O2	31:CA:1336:C:H2'	2.15	0.45
32:CE:24:TRP:CZ3	32:CE:26:PRO:HA	2.51	0.45
33:CF:57:ILE:HG12	33:CF:66:VAL:HG22	1.98	0.45
33:CF:138:VAL:O	33:CF:141:VAL:N	2.49	0.45
34:CG:156:GLU:HG2	34:CG:157:LEU:N	2.31	0.45
35:CH:41:VAL:CG1	35:CH:113:ALA:HB2	2.46	0.45
36:CI:98:LEU:HB3	48:CU:29:PHE:O	2.16	0.45
43:CP:64:TRP:H	43:CP:64:TRP:CD1	2.33	0.45
44:CQ:6:LEU:HB3	44:CQ:23:ARG:NH2	2.31	0.45
52:CB:27:G:H3'	52:CB:28:C:C6	2.44	0.45
53:CC:63:C:O2	53:CC:63:C:H2'	2.15	0.45
53:CD:6:G:C2	53:CD:7:G:C5	3.05	0.45
53:CD:14:A:N7	53:CD:15:G:N7	2.64	0.45
31:DA:105:G:H2'	31:DA:106:C:H6	1.80	0.45
31:DA:340:U:H2'	31:DA:341:C:C6	2.51	0.45
31:DA:625:G:C5	31:DA:626:U:C5	3.04	0.45
31:DA:750:G:H1'	45:DR:23:GLY:H	1.81	0.45
31:DA:756:C:H2'	31:DA:757:U:O4'	2.16	0.45
31:DA:1056:U:C5'	33:DF:163:ALA:HB2	2.46	0.45
31:DA:1062:U:H2'	31:DA:1063:C:C6	2.51	0.45
31:DA:1086:U:OP2	31:DA:1086:U:H6	1.98	0.45
31:DA:1190:G:H3'	33:DF:3:ASN:ND2	2.30	0.45
31:DA:1203:C:H2'	31:DA:1204:A:O4'	2.15	0.45
31:DA:1287:A:H2'	31:DA:1288:A:C8	2.51	0.45
31:DA:1326:C:H2'	31:DA:1327:C:C6	2.51	0.45
31:DA:1371:G:OP1	39:DL:11:LYS:HG2	2.16	0.45
31:DA:1465:C:H2'	31:DA:1466:C:O4'	2.16	0.45
34:DG:49:ARG:HA	34:DG:49:ARG:NE	2.31	0.45
35:DH:135:THR:O	35:DH:138:ALA:HB3	2.15	0.45
1:AA:142:G:H2'	1:AA:143:C:C6	2.51	0.45
1:AA:455:C:N3	1:AA:473:G:H5'	2.31	0.45
1:AA:953:A:OP2	12:AP:16:ARG:CD	2.51	0.45
1:AA:1097:U:H2'	1:AA:1098:A:H5'	1.98	0.45
1:AA:1268:A:C2'	1:AA:1269:A:O5'	2.64	0.45
1:AA:1319:G:C6	1:AA:1320:C:N4	2.84	0.45
1:AA:1416:G:O2'	1:AA:1417:C:C6	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1433:U:O2	1:AA:1561:G:C2	2.69	0.45
1:AA:2607:G:H2'	1:AA:2608:G:O4'	2.16	0.45
1:AA:2745:C:C4	1:AA:2746:U:C4	3.04	0.45
2:AB:19:G:O2'	2:AB:20:C:H5'	2.17	0.45
4:AE:111:ARG:CD	4:AE:160:TYR:HE1	2.27	0.45
5:AF:7:TYR:O	5:AF:21:ALA:HA	2.15	0.45
8:AK:9:LEU:CB	8:AK:11:ASN:O	2.65	0.45
11:AO:36:LYS:HB2	11:AO:40:SER:HB3	1.98	0.45
11:AO:126:VAL:HG12	11:AO:147:LEU:HD13	1.97	0.45
13:A0:28:LEU:HD23	13:A0:28:LEU:HA	1.82	0.45
16:A1:91:ASP:O	16:A1:95:LEU:HB2	2.16	0.45
20:AU:42:VAL:O	20:AU:42:VAL:CG1	2.62	0.45
30:A8:39:LYS:O	30:A8:43:GLN:HG3	2.16	0.45
1:BA:26:G:C6	1:BA:27:G:N1	2.83	0.45
1:BA:56:A:C2	1:BA:115:C:O2	2.70	0.45
1:BA:93:C:C5'	1:BA:94:G:OP2	2.51	0.45
1:BA:524:U:H2'	1:BA:525:U:C6	2.51	0.45
1:BA:691:C:H2'	1:BA:692:C:C6	2.51	0.45
1:BA:996:A:N6	1:BA:1160:G:C6	2.83	0.45
1:BA:1041:C:O2'	1:BA:1042:G:H5'	2.16	0.45
1:BA:1359:A:N6	1:BA:1372:U:H3	1.96	0.45
1:BA:1676:A:N3	1:BA:1993:U:H5'	2.30	0.45
1:BA:1923:U:OP1	53:DC:25:U:O2'	2.32	0.45
1:BA:1923:U:O2'	53:DC:12:G:H1'	2.16	0.45
1:BA:1926:U:O2'	1:BA:1928:A:N7	2.37	0.45
1:BA:2134:A:C2	1:BA:2159:G:H1'	2.51	0.45
1:BA:2292:C:H4'	1:BA:2375:G:H4'	1.99	0.45
5:BF:51:THR:OG1	5:BF:91:GLY:HA3	2.16	0.45
6:BG:114:ILE:CG2	6:BG:117:PHE:HB2	2.46	0.45
11:BO:9:ASN:CB	11:BO:10:PRO:CD	2.83	0.45
12:BP:102:VAL:O	12:BP:102:VAL:CG1	2.60	0.45
14:BQ:27:SER:HA	14:BQ:88:ASP:CG	2.36	0.45
15:BR:56:GLY:N	15:BR:59:THR:HG22	2.30	0.45
16:B1:79:PHE:CD2	16:B1:79:PHE:C	2.94	0.45
20:BU:84:ARG:O	20:BU:84:ARG:HG3	2.16	0.45
21:BV:124:ILE:HD12	21:BV:125:LEU:H	1.80	0.45
24:BW:47:ASN:ND2	24:BW:47:ASN:N	2.63	0.45
26:B4:61:ARG:HA	26:B4:61:ARG:NH1	2.31	0.45
28:B6:45:LYS:NZ	28:B6:45:LYS:N	2.65	0.45
31:CA:298:A:H2'	31:CA:299:G:O4'	2.16	0.45
31:CA:397:A:H3'	31:CA:397:A:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:406:G:H2'	31:CA:407:G:H8	1.81	0.45
31:CA:421:U:O2'	31:CA:423:G:O6	2.28	0.45
31:CA:972:C:OP2	40:CM:57:LYS:HE2	2.16	0.45
31:CA:1024:G:OP1	31:CA:1024:G:C4'	2.62	0.45
31:CA:1194:U:H5''	35:CH:22:GLY:O	2.16	0.45
31:CA:1277:C:O2'	31:CA:1279:A:C8	2.60	0.45
32:CE:19:HIS:HD2	32:CE:20:GLU:CD	2.24	0.45
34:CG:12:CYS:SG	34:CG:31:CYS:SG	3.14	0.45
36:CI:41:GLU:HG3	36:CI:62:TRP:CE3	2.51	0.45
36:CI:55:ASP:HB2	36:CI:86:ARG:HH12	1.81	0.45
38:CK:27:PRO:HA	38:CK:58:TYR:CD2	2.51	0.45
41:CN:29:ILE:HB	41:CN:44:SER:CB	2.46	0.45
46:CS:28:ARG:NH1	46:CS:29:ASP:OD2	2.50	0.45
31:DA:355:C:C4	31:DA:356:A:N7	2.85	0.45
31:DA:384:G:H2'	31:DA:385:C:C6	2.51	0.45
31:DA:567:G:H2'	31:DA:568:G:O4'	2.15	0.45
31:DA:791:G:C6	31:DA:792:A:N7	2.83	0.45
31:DA:815:A:C2	31:DA:1529:G:C4	3.04	0.45
31:DA:828:A:N6	31:DA:858:G:O2'	2.36	0.45
31:DA:960:U:O2	31:DA:960:U:H2'	2.16	0.45
31:DA:1004:A:C5'	31:DA:1025:U:C4	2.98	0.45
31:DA:1072:G:H2'	31:DA:1073:U:O4'	2.16	0.45
31:DA:1118:C:H1'	31:DA:1179:A:C4	2.51	0.45
31:DA:1503:A:H5'	31:DA:1531:A:H1'	1.98	0.45
32:DE:75:LYS:HA	32:DE:78:GLN:HE21	1.82	0.45
34:DG:50:ARG:HA	34:DG:51:PRO:HD3	1.76	0.45
34:DG:104:VAL:O	34:DG:108:LEU:HB2	2.16	0.45
37:DJ:69:VAL:HG12	37:DJ:69:VAL:O	2.16	0.45
39:DL:95:LYS:C	39:DL:98:PRO:HD2	2.41	0.45
40:DM:54:PHE:CZ	40:DM:55:LYS:CE	3.00	0.45
41:DN:48:ILE:CG1	41:DN:63:LEU:HB3	2.46	0.45
42:DO:117:ARG:NH2	42:DO:124:LYS:HB2	2.32	0.45
48:DU:74:ARG:HB3	48:DU:81:PHE:CZ	2.51	0.45
50:DW:26:ASN:HB3	50:DW:71:THR:HG1	1.81	0.45
50:DW:73:HIS:HB3	50:DW:74:LYS:H	1.49	0.45
1:AA:17:G:H2'	1:AA:18:C:C6	2.52	0.45
1:AA:74:A:H8	1:AA:74:A:H5''	1.81	0.45
1:AA:176:G:C2'	1:AA:177:G:H5'	2.47	0.45
1:AA:280:C:H2'	1:AA:281:G:H5'	1.96	0.45
1:AA:944:G:N3	1:AA:944:G:C2'	2.79	0.45
1:AA:1833:U:O2'	1:AA:1969:A:N1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1870:C:H2'	1:AA:1870:C:O2	2.17	0.45
1:AA:1955:U:O2	1:AA:1955:U:H2'	2.16	0.45
1:AA:2032:G:N2	4:AE:146:THR:HG23	2.04	0.45
1:AA:2095:C:H2'	1:AA:2096:U:O4'	2.17	0.45
1:AA:2097:C:O2'	1:AA:2098:U:H5'	2.16	0.45
1:AA:2135:A:H2'	1:AA:2136:C:O5'	2.15	0.45
1:AA:2572:A:C8	4:AE:144:ARG:NE	2.85	0.45
1:AA:2790:A:H2	1:AA:2894:G:H5''	1.80	0.45
2:AB:3:C:H2'	2:AB:4:C:C6	2.51	0.45
2:AB:66:A:N6	2:AB:107:U:H2'	2.31	0.45
4:AE:101:ARG:CZ	4:AE:171:GLU:HB2	2.46	0.45
6:AG:67:LYS:CE	26:A4:6:HIS:NE2	2.79	0.45
6:AG:83:ARG:N	6:AG:86:MET:HE2	2.30	0.45
7:AH:67:LEU:O	7:AH:71:LEU:HB2	2.16	0.45
7:AH:153:LYS:N	7:AH:153:LYS:HZ3	2.10	0.45
8:AK:67:ARG:O	8:AK:71:ILE:HG23	2.16	0.45
10:AN:64:ARG:HD3	10:AN:79:PHE:CD2	2.51	0.45
11:AO:85:LEU:HA	11:AO:88:LEU:CD2	2.42	0.45
15:AR:45:PHE:CE2	15:AR:63:VAL:HB	2.43	0.45
15:AR:98:LYS:HB3	15:AR:100:TYR:CE1	2.52	0.45
16:A1:90:VAL:O	16:A1:91:ASP:C	2.59	0.45
27:A5:3:LYS:HA	27:A5:3:LYS:CE	2.45	0.45
1:BA:67:U:O2'	1:BA:68:G:H5'	2.17	0.45
1:BA:92:G:C6	1:BA:93:C:C4	3.04	0.45
1:BA:316:C:H2'	1:BA:317:G:O5'	2.17	0.45
1:BA:628:G:C6	1:BA:629:G:C6	3.04	0.45
1:BA:886:C:H1'	1:BA:890:A:C2	2.52	0.45
1:BA:1627:G:H2'	1:BA:1628:G:H8	1.82	0.45
1:BA:2291:U:H2'	1:BA:2292:C:C6	2.52	0.45
1:BA:2602:A:H4'	1:BA:2603:G:C5'	2.46	0.45
4:BE:58:ARG:HA	4:BE:58:ARG:HE	1.81	0.45
7:BH:26:VAL:HG13	7:BH:27:LYS:H	1.81	0.45
7:BH:125:VAL:CG2	7:BH:126:PRO:HD3	2.19	0.45
7:BH:152:ARG:C	7:BH:154:PRO:HD3	2.42	0.45
12:BP:7:MET:HB3	12:BP:10:ARG:HH22	1.80	0.45
12:BP:33:GLY:HA2	12:BP:105:GLU:HB2	1.98	0.45
12:BP:58:PHE:CE1	12:BP:113:GLN:HB3	2.51	0.45
15:BR:47:GLY:CA	15:BR:63:VAL:HG12	2.43	0.45
15:BR:53:ARG:HG3	15:BR:53:ARG:HH11	1.82	0.45
20:BU:33:LYS:HG3	20:BU:34:LYS:HG2	1.97	0.45
26:B4:23:GLU:CG	26:B4:24:THR:H	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:258:G:H2'	31:CA:259:G:H8	1.81	0.45
31:CA:267:C:OP1	47:CT:67:LYS:HE3	2.17	0.45
31:CA:689:C:C2'	31:CA:690:G:H5'	2.46	0.45
31:CA:953:G:C5'	31:CA:965:A:H61	2.22	0.45
31:CA:975:A:N6	40:CM:60:ARG:HH12	2.11	0.45
31:CA:1004:A:C5	31:CA:1025:U:H1'	2.52	0.45
31:CA:1015:A:H2'	31:CA:1016:A:C8	2.51	0.45
31:CA:1088:G:N1	31:CA:1089:G:C5	2.84	0.45
31:CA:1158:C:N3	31:CA:1160:G:N7	2.64	0.45
31:CA:1406:U:C5	31:CA:1407:C:C5	3.05	0.45
38:CK:107:LEU:HA	38:CK:107:LEU:HD23	1.65	0.45
39:CL:11:LYS:O	39:CL:11:LYS:HG2	2.17	0.45
39:CL:49:PRO:HD3	39:CL:101:PHE:CE2	2.51	0.45
47:CT:81:ARG:NH2	47:CT:83:ASP:OD2	2.49	0.45
53:CD:14:A:OP1	53:CD:14:A:H8	1.99	0.45
31:DA:350:G:H5'	31:DA:351:G:P	2.56	0.45
31:DA:438:G:N3	31:DA:494:U:C5	2.85	0.45
31:DA:539:A:OP2	42:DO:115:LYS:NZ	2.48	0.45
31:DA:570:G:H1'	31:DA:820:U:N3	2.32	0.45
31:DA:767:A:H2'	31:DA:768:A:O4'	2.17	0.45
31:DA:1072:G:C5	31:DA:1073:U:C4	3.05	0.45
31:DA:1158:C:C4	31:DA:1160:G:N7	2.84	0.45
32:DE:5:ILE:HD11	32:DE:55:PHE:HB3	1.97	0.45
33:DF:70:VAL:HG12	33:DF:72:LYS:N	2.32	0.45
34:DG:78:LEU:CD2	34:DG:96:LEU:HB3	2.46	0.45
34:DG:126:ILE:HG22	34:DG:127:THR:N	2.30	0.45
35:DH:60:TYR:HB3	35:DH:64:ARG:HH21	1.82	0.45
36:DI:15:ASP:OD1	36:DI:16:GLN:N	2.50	0.45
37:DJ:102:ARG:O	37:DJ:106:GLN:HG3	2.16	0.45
48:DU:50:ILE:HG22	48:DU:51:LEU:N	2.31	0.45
51:DX:25:LYS:HD3	51:DX:25:LYS:C	2.41	0.45
53:DC:54:G:H2'	53:DC:55:U:C6	2.51	0.45
53:DC:62:C:C2	53:DC:63:C:C5	3.04	0.45
1:AA:38:A:H2'	1:AA:39:C:C6	2.51	0.45
1:AA:96:G:H4'	24:AW:48:HIS:CD2	2.52	0.45
1:AA:438:G:H2'	1:AA:439:G:C8	2.50	0.45
1:AA:445:C:H2'	1:AA:446:G:O4'	2.17	0.45
1:AA:800:A:N1	1:AA:802:A:C8	2.85	0.45
1:AA:1210:A:C5'	1:AA:1210:A:C8	2.94	0.45
1:AA:1438:U:O2	1:AA:1438:U:H2'	2.16	0.45
1:AA:1937:A:HO2'	1:AA:1938:A:P	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2155:G:H2'	1:AA:2156:G:H5'	1.99	0.45
1:AA:2171:A:H2'	1:AA:2172:U:C6	2.46	0.45
1:AA:2748:A:P	7:AH:70:THR:HG21	2.56	0.45
1:AA:2798:C:C5	1:AA:2799:A:N6	2.84	0.45
1:AA:2861:G:N1	1:AA:2862:G:C5	2.85	0.45
1:AA:2869:G:C5	1:AA:2870:C:C5	3.05	0.45
5:AF:11:VAL:HG12	5:AF:12:LEU:N	2.31	0.45
5:AF:199:TRP:HE1	5:AF:203:GLN:HE22	1.65	0.45
6:AG:44:GLY:C	6:AG:46:ALA:H	2.25	0.45
6:AG:67:LYS:HA	6:AG:68:PRO:HD3	1.89	0.45
9:AM:58:ASP:OD1	9:AM:58:ASP:C	2.57	0.45
9:AM:115:ARG:O	9:AM:116:LEU:C	2.60	0.45
10:AN:9:GLU:O	10:AN:83:ALA:HA	2.16	0.45
11:AO:100:LEU:HD12	11:AO:100:LEU:HA	1.81	0.45
12:AP:79:LEU:O	12:AP:80:GLU:C	2.58	0.45
20:AU:96:ILE:HG12	20:AU:99:CYS:H	1.82	0.45
21:AV:18:LEU:O	21:AV:21:ALA:HB3	2.17	0.45
27:A5:56:LYS:O	27:A5:57:VAL:HG12	2.17	0.45
1:BA:71:A:H5''	1:BA:73:A:C8	2.51	0.45
1:BA:565:C:H2'	1:BA:566:U:O4'	2.16	0.45
1:BA:598:G:C6	1:BA:599:G:C5	3.04	0.45
1:BA:702:G:C2	1:BA:731:C:C2	3.04	0.45
1:BA:955:C:C2'	1:BA:956:G:H5'	2.47	0.45
1:BA:1199:U:H1'	16:B1:4:ALA:HB2	1.98	0.45
1:BA:1814:G:H2'	1:BA:1815:A:C8	2.52	0.45
1:BA:1901:A:O2'	3:BD:255:LYS:HD3	2.16	0.45
1:BA:1921:G:O2'	1:BA:1922:G:H5'	2.15	0.45
2:BB:43:C:H1'	6:BG:93:THR:O	2.17	0.45
3:BD:24:ILE:HD11	3:BD:91:ARG:HD3	1.99	0.45
3:BD:121:PRO:HB3	3:BD:135:PHE:CD1	2.50	0.45
3:BD:181:GLU:HA	3:BD:273:ARG:HA	1.98	0.45
6:BG:47:LYS:HG3	6:BG:86:MET:CE	2.47	0.45
6:BG:56:ALA:HB2	6:BG:153:ARG:NE	2.31	0.45
6:BG:105:LYS:CE	26:B4:26:SER:HB3	2.47	0.45
6:BG:120:LEU:HB2	6:BG:180:PHE:CD2	2.52	0.45
7:BH:120:GLY:O	7:BH:121:ILE:HD13	2.17	0.45
9:BM:45:ASN:O	9:BM:46:VAL:HG23	2.17	0.45
14:BQ:73:LEU:HD13	14:BQ:73:LEU:O	2.15	0.45
16:B1:66:ASN:HB2	16:B1:76:TYR:HB2	1.96	0.45
16:B1:86:ALA:O	17:B2:49:THR:HG22	2.16	0.45
16:B1:111:GLU:C	16:B1:113:ALA:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BS:12:ILE:HD13	18:BS:17:VAL:CG1	2.46	0.45
24:BW:71:ASN:O	24:BW:72:ALA:HB3	2.14	0.45
28:B6:31:PRO:O	28:B6:32:ASN:CB	2.59	0.45
30:B8:37:SER:O	30:B8:38:GLY:C	2.59	0.45
31:CA:245:C:O2	31:CA:283:C:N3	2.50	0.45
31:CA:530:G:OP1	31:CA:530:G:H3'	2.16	0.45
31:CA:789:U:O2	31:CA:789:U:O4'	2.35	0.45
32:CE:237:ALA:H	32:CE:239:VAL:HG23	1.81	0.45
34:CG:58:LEU:C	34:CG:58:LEU:HD22	2.42	0.45
34:CG:58:LEU:HD22	34:CG:58:LEU:O	2.15	0.45
35:CH:69:VAL:HG12	35:CH:71:LEU:HD23	1.98	0.45
39:CL:10:ARG:NE	39:CL:105:ASP:OD1	2.49	0.45
41:CN:115:PRO:C	41:CN:117:ASN:H	2.25	0.45
43:CP:67:GLU:HG2	43:CP:71:ARG:HH22	1.81	0.45
53:CC:1:C:C6	53:CC:1:C:C3'	3.00	0.45
31:DA:19:C:H5''	35:DH:86:ALA:CB	2.45	0.45
31:DA:177:C:H2'	31:DA:178:C:H6	1.80	0.45
31:DA:465:A:N7	31:DA:467:G:C6	2.84	0.45
31:DA:516:U:O4	31:DA:533:A:OP1	2.34	0.45
31:DA:528:C:C2'	31:DA:529:G:O5'	2.64	0.45
31:DA:552:U:C2'	31:DA:553:A:H5'	2.46	0.45
31:DA:1226:C:N4	43:DP:104:ARG:HB2	2.31	0.45
36:DI:72:VAL:HG13	36:DI:73:ASN:N	2.32	0.45
38:DK:19:VAL:HG23	38:DK:21:LYS:HB2	1.99	0.45
43:DP:29:ARG:HD3	43:DP:64:TRP:CD2	2.51	0.45
43:DP:40:ASN:HD22	43:DP:43:THR:HG23	1.80	0.45
52:DB:44:G:H2'	52:DB:45:U:O4'	2.16	0.45
1:AA:256:A:C2	1:AA:257:A:C4	3.05	0.45
1:AA:1079:C:N4	1:AA:1080:A:N6	2.65	0.45
1:AA:1143:A:OP1	9:AM:25:ARG:NH2	2.46	0.45
1:AA:2331:G:H4'	22:A3:42:GLY:HA3	1.98	0.45
1:AA:2660:A:H2'	1:AA:2661:G:O4'	2.17	0.45
1:AA:2863:C:O2'	1:AA:2864:G:H5'	2.17	0.45
2:AB:93:C:O2'	2:AB:94:C:H5'	2.17	0.45
3:AD:36:PRO:HA	3:AD:62:TYR:O	2.17	0.45
3:AD:44:ASN:HB3	3:AD:48:ARG:O	2.17	0.45
4:AE:75:VAL:HG23	4:AE:76:ARG:H	1.80	0.45
4:AE:78:LEU:HD11	4:AE:79:ARG:NH2	2.32	0.45
4:AE:152:LYS:HG2	9:AM:78:TYR:CE1	2.51	0.45
5:AF:114:VAL:HG21	5:AF:202:PHE:CZ	2.51	0.45
6:AG:139:LEU:HD23	6:AG:144:ILE:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:86:GLU:O	7:AH:87:LEU:HB2	2.16	0.45
9:AM:15:LEU:O	9:AM:136:GLU:HA	2.16	0.45
20:AU:17:SER:OG	20:AU:71:LYS:HD3	2.16	0.45
21:AV:33:LEU:HG	21:AV:34:ASN:N	2.30	0.45
21:AV:110:GLY:HA3	21:AV:144:LEU:O	2.17	0.45
23:AZ:3:LYS:O	23:AZ:12:PRO:HD3	2.16	0.45
28:A6:15:GLU:OE2	28:A6:44:ARG:CZ	2.65	0.45
1:BA:405:U:O2	1:BA:405:U:C2'	2.65	0.45
1:BA:547:A:C5	1:BA:548:A:C6	3.04	0.45
1:BA:860:U:C2	1:BA:2268:A:C8	3.04	0.45
1:BA:1207:C:C2	1:BA:1208:C:C5	3.05	0.45
1:BA:1344:G:H4'	1:BA:1384:A:C5	2.51	0.45
1:BA:1425:G:N1	1:BA:1426:G:C2	2.84	0.45
1:BA:1487:G:N2	1:BA:1503:U:C2	2.85	0.45
1:BA:1771:C:HO2'	1:BA:1786:A:C1'	2.29	0.45
1:BA:1903:G:P	3:BD:241:PRO:HB2	2.56	0.45
1:BA:2168:G:N2	1:BA:2170:A:O5'	2.47	0.45
1:BA:2169:A:H2'	1:BA:2169:A:N3	2.31	0.45
1:BA:2537:U:N3	1:BA:2538:C:C4	2.84	0.45
1:BA:2882:A:H5'	13:B0:96:ARG:HG3	1.98	0.45
3:BD:270:ILE:O	3:BD:271:ILE:HG12	2.17	0.45
5:BF:155:LEU:HD22	5:BF:185:ASP:C	2.41	0.45
6:BG:6:ALA:O	6:BG:9:ARG:N	2.50	0.45
7:BH:4:ILE:HD12	7:BH:6:ARG:CZ	2.47	0.45
7:BH:10:PRO:CG	7:BH:50:VAL:HG13	2.46	0.45
11:BO:61:ARG:HA	30:B8:27:THR:CG2	2.47	0.45
12:BP:33:GLY:HA2	12:BP:105:GLU:CB	2.46	0.45
14:BQ:87:PHE:HE1	14:BQ:102:ALA:HB2	1.76	0.45
20:BU:13:VAL:HG12	20:BU:27:VAL:HG12	1.97	0.45
31:CA:176:C:O2'	31:CA:177:C:H5'	2.17	0.45
31:CA:177:C:O2'	31:CA:178:C:H5'	2.16	0.45
31:CA:278:G:OP2	47:CT:41:LYS:HE2	2.17	0.45
31:CA:950:U:C5	43:CP:102:ARG:NH1	2.84	0.45
31:CA:960:U:C2	31:CA:1225:A:C5	3.05	0.45
31:CA:1130:A:C2	31:CA:1146:A:C4	3.05	0.45
31:CA:1133:G:H1	31:CA:1141:C:H42	1.64	0.45
31:CA:1379:G:C6	31:CA:1380:U:O4	2.69	0.45
32:CE:168:THR:OG1	32:CE:192:SER:HB2	2.16	0.45
35:CH:153:LYS:HD3	35:CH:154:GLY:N	2.32	0.45
36:CI:25:ILE:HD12	36:CI:82:ARG:HD3	1.97	0.45
44:CQ:46:GLU:O	44:CQ:50:LYS:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CS:51:VAL:HG12	46:CS:52:ASP:N	2.31	0.45
49:CV:13:ASP:O	49:CV:16:LEU:N	2.50	0.45
52:CB:38:G:H2'	52:CB:39:U:O4'	2.17	0.45
31:DA:474:G:H2'	31:DA:475:G:C8	2.50	0.45
31:DA:475:G:H2'	31:DA:476:G:C8	2.51	0.45
31:DA:707:C:H2'	31:DA:708:C:H6	1.81	0.45
31:DA:745:C:H2'	31:DA:746:A:C8	2.52	0.45
31:DA:901:A:C5	31:DA:902:G:H1'	2.52	0.45
31:DA:1330:U:H5'	31:DA:1331:G:O5'	2.16	0.45
32:DE:164:VAL:O	32:DE:186:ALA:HB1	2.16	0.45
32:DE:178:ARG:CG	32:DE:178:ARG:NH1	2.77	0.45
33:DF:50:ALA:O	33:DF:70:VAL:HG13	2.16	0.45
33:DF:124:ILE:O	33:DF:127:ARG:N	2.37	0.45
49:DV:49:ILE:H	49:DV:62:ILE:HD13	1.80	0.45
50:DW:97:ALA:O	50:DW:99:LEU:HG	2.17	0.45
52:DB:26:C:C5	52:DB:27:G:N2	2.84	0.45
53:DD:52:C:O2	53:DD:65:G:C2	2.69	0.45
1:AA:116:C:O2'	1:AA:117:G:H5'	2.15	0.45
1:AA:539:G:H5'	1:AA:540:G:P	2.56	0.45
1:AA:705:A:H1'	3:AD:9:TYR:CE1	2.52	0.45
1:AA:1060:U:N3	1:AA:1088:A:C8	2.81	0.45
1:AA:1145:C:H2'	1:AA:1146:C:H6	1.81	0.45
1:AA:1385:G:H1'	1:AA:1386:C:C6	2.52	0.45
1:AA:1394:U:C4	1:AA:1395:A:C5	3.05	0.45
1:AA:1441:G:H2'	1:AA:1442:G:C8	2.51	0.45
1:AA:1919:A:O3'	31:CA:1517:G:H1'	2.16	0.45
1:AA:1992:G:H5'	1:AA:1994:C:N4	2.30	0.45
1:AA:2287:A:N6	1:AA:2344:U:C2	2.85	0.45
1:AA:2422:A:C5	1:AA:2424:C:N4	2.84	0.45
1:AA:2455:G:H2'	1:AA:2456:C:C6	2.52	0.45
1:AA:2815:C:O2'	27:A5:43:HIS:CD2	2.69	0.45
1:AA:2839:G:H2'	1:AA:2840:C:C6	2.51	0.45
1:AA:2894:G:H2'	1:AA:2895:U:OP2	2.17	0.45
4:AE:137:HIS:CB	4:AE:138:PRO:HD2	2.46	0.45
5:AF:114:VAL:HG21	5:AF:202:PHE:CE1	2.52	0.45
6:AG:73:ALA:CB	6:AG:82:LEU:HD11	2.44	0.45
6:AG:83:ARG:HH11	6:AG:83:ARG:CB	2.25	0.45
6:AG:114:ILE:HD11	6:AG:140:ILE:CD1	2.47	0.45
7:AH:78:GLY:HA2	7:AH:82:GLY:HA3	1.99	0.45
12:AP:21:THR:O	12:AP:21:THR:HG23	2.12	0.45
14:AQ:83:LYS:O	14:AQ:109:GLY:HA3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:35:LYS:O	15:AR:36:GLU:HB2	2.17	0.45
15:AR:93:ARG:HG3	15:AR:93:ARG:NH1	2.21	0.45
20:AU:97:ARG:NE	20:AU:98:VAL:HG23	2.27	0.45
27:A5:41:PRO:O	27:A5:44:THR:OG1	2.33	0.45
1:BA:82:G:N2	1:BA:104:U:C5	2.84	0.45
1:BA:466:A:O4'	1:BA:683:C:H4'	2.16	0.45
1:BA:841:A:H2'	1:BA:842:G:C8	2.51	0.45
1:BA:845:G:H8	1:BA:845:G:OP2	1.99	0.45
1:BA:993:G:C5	1:BA:994:C:C5	3.04	0.45
1:BA:1021:A:OP2	9:BM:65:LYS:NZ	2.48	0.45
1:BA:1060:U:N3	1:BA:1088:A:H8	2.14	0.45
1:BA:1061:U:C4'	1:BA:1070:A:H1'	2.47	0.45
1:BA:1416:G:O2'	1:BA:1417:C:H6	1.98	0.45
1:BA:2144:U:O2'	1:BA:2145:C:C5	2.68	0.45
1:BA:2169:A:C8	53:DD:57:C:C2	3.04	0.45
1:BA:2645:G:N2	1:BA:2767:C:OP2	2.50	0.45
3:BD:10:THR:OG1	3:BD:13:ARG:HB2	2.16	0.45
5:BF:118:ALA:O	5:BF:121:GLY:N	2.41	0.45
6:BG:137:GLU:HB3	6:BG:152:LEU:HD22	1.99	0.45
8:BK:69:LYS:HA	8:BK:136:VAL:HG21	1.98	0.45
10:BN:119:PRO:HB2	15:BR:68:TYR:CD2	2.52	0.45
17:B2:27:ALA:HB3	17:B2:61:VAL:HG21	1.99	0.45
19:BT:23:GLU:HG3	19:BT:24:GLY:N	2.31	0.45
21:BV:23:LYS:HB3	21:BV:38:TYR:CD1	2.52	0.45
21:BV:60:GLU:O	21:BV:65:GLN:O	2.34	0.45
22:B3:36:ILE:HD13	22:B3:36:ILE:N	2.31	0.45
26:B4:36:CYS:HB3	26:B4:41:PRO:HD3	1.98	0.45
31:CA:192:U:O4'	50:CW:103:GLY:HA2	2.17	0.45
31:CA:556:C:H2'	31:CA:557:G:H8	1.82	0.45
31:CA:1065:U:C2'	31:CA:1066:C:OP2	2.64	0.45
31:CA:1102:A:H2'	31:CA:1103:C:H5'	1.98	0.45
31:CA:1164:G:C6	31:CA:1173:G:C6	3.04	0.45
33:CF:45:LYS:HB2	33:CF:45:LYS:NZ	2.32	0.45
37:CJ:16:LEU:HD11	39:CL:45:ALA:HB2	1.99	0.45
38:CK:9:MET:CG	38:CK:26:VAL:HG21	2.47	0.45
39:CL:48:GLU:N	39:CL:49:PRO:CD	2.80	0.45
42:CO:82:ILE:HD13	42:CO:82:ILE:HA	1.71	0.45
46:CS:82:GLN:H	46:CS:82:GLN:HG2	1.54	0.45
49:CV:63:THR:OG1	49:CV:65:ASN:ND2	2.49	0.45
31:DA:148:G:O2'	31:DA:149:A:H5'	2.16	0.45
31:DA:189:U:C4	47:DT:72:ARG:NH2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:686:U:H2'	31:DA:687:A:C8	2.51	0.45
31:DA:826:C:H2'	31:DA:827:U:C6	2.52	0.45
31:DA:914:A:C2'	31:DA:915:A:H5'	2.47	0.45
31:DA:997:U:H2'	31:DA:998:G:H8	1.76	0.45
31:DA:1015:A:N6	31:DA:1016:A:N1	2.64	0.45
31:DA:1052:U:C2	31:DA:1200:C:N4	2.85	0.45
31:DA:1057:G:C5	31:DA:1204:A:C2	3.05	0.45
31:DA:1117:G:H4'	39:DL:104:ARG:NH1	2.32	0.45
31:DA:1321:C:C3'	31:DA:1322:C:H5''	2.41	0.45
31:DA:1333:A:C8	31:DA:1334:G:C8	3.05	0.45
32:DE:87:ARG:NH1	32:DE:220:ASP:OD1	2.26	0.45
32:DE:141:GLU:O	32:DE:145:LEU:HB2	2.17	0.45
32:DE:233:SER:HB3	32:DE:234:PRO:CD	2.42	0.45
36:DI:81:ILE:HG22	36:DI:82:ARG:N	2.32	0.45
52:DB:21:A:H2'	52:DB:22:G:C5'	2.47	0.45
53:DC:48:U:H4'	53:DC:49:C:H5'	1.98	0.45
53:DC:50:G:N1	53:DC:51:U:C2	2.84	0.45
53:DC:72:C:H6	53:DC:72:C:O5'	1.99	0.45
53:DD:19:G:H4'	53:DD:61:U:O2	2.16	0.45
1:AA:67:U:H2'	1:AA:68:G:C8	2.51	0.45
1:AA:68:G:H2'	1:AA:69:C:C6	2.52	0.45
1:AA:306:U:H2'	1:AA:307:G:O4'	2.16	0.45
1:AA:321:G:C4	5:AF:165:ARG:NH1	2.85	0.45
1:AA:1095:A:N3	1:AA:1095:A:C2'	2.79	0.45
1:AA:1168:G:O2'	1:AA:1169:G:H5'	2.17	0.45
1:AA:2014:A:H2'	1:AA:2015:A:C8	2.52	0.45
1:AA:2213:U:C1'	23:AZ:52:ARG:NH2	2.80	0.45
1:AA:2275:C:O2	12:AP:85:LYS:CG	2.64	0.45
1:AA:2283:C:C2'	1:AA:2284:C:H5'	2.47	0.45
1:AA:2467:C:C4'	12:AP:123:HIS:CG	2.99	0.45
1:AA:2543:G:N3	1:AA:2765:A:H2'	2.31	0.45
1:AA:2689:U:H4'	1:AA:2690:C:OP2	2.17	0.45
1:AA:2716:U:O2'	1:AA:2717:G:H5'	2.16	0.45
1:AA:2776:A:H4'	1:AA:2777:G:H5''	1.98	0.45
2:AB:59:A:C5	2:AB:60:C:C5	3.05	0.45
3:AD:34:VAL:C	3:AD:35:LYS:O	2.58	0.45
5:AF:34:TRP:HA	11:AO:6:LEU:HG	1.99	0.45
6:AG:5:VAL:H	26:A4:25:TYR:HE2	1.65	0.45
6:AG:48:GLU:HA	6:AG:48:GLU:OE2	2.17	0.45
13:A0:8:ARG:HG3	13:A0:43:GLU:CD	2.41	0.45
16:A1:92:ARG:NH1	16:A1:94:ASN:ND2	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:6:LYS:O	21:AV:7:ALA:HB2	2.17	0.45
21:AV:76:LEU:N	21:AV:76:LEU:CD2	2.80	0.45
24:AW:4:SER:N	24:AW:7:ARG:HG3	2.31	0.45
26:A4:14:ILE:HG23	26:A4:15:ILE:N	2.31	0.45
26:A4:48:ARG:HD2	26:A4:48:ARG:HA	1.76	0.45
26:A4:61:ARG:C	26:A4:63:TYR:N	2.74	0.45
1:BA:9:U:C4	1:BA:2629:A:N1	2.84	0.45
1:BA:221:A:N6	1:BA:265:A:C8	2.85	0.45
1:BA:224:G:N7	1:BA:420:C:H4'	2.32	0.45
1:BA:342:G:C5	1:BA:343:C:C5	3.05	0.45
1:BA:483:A:H4'	20:BU:49:VAL:CA	2.32	0.45
1:BA:753:C:O5'	1:BA:753:C:H6	1.98	0.45
1:BA:895:U:H4'	1:BA:896:A:C5	2.52	0.45
1:BA:996:A:C2	1:BA:997:G:C8	3.05	0.45
1:BA:1012:U:O4	9:BM:25:ARG:HD3	2.15	0.45
1:BA:1533:C:H3'	1:BA:1534:G:O4'	2.17	0.45
1:BA:2135:A:H62	1:BA:2156:G:N2	2.15	0.45
1:BA:2140:C:O2	1:BA:2151:G:N1	2.42	0.45
1:BA:2699:C:H2'	1:BA:2700:C:O4'	2.17	0.45
1:BA:2784:C:H1'	4:BE:37:ARG:HH21	1.82	0.45
4:BE:105:THR:OG1	4:BE:199:ARG:NH2	2.45	0.45
5:BF:102:PRO:O	5:BF:105:VAL:N	2.48	0.45
6:BG:67:LYS:HD2	26:B4:6:HIS:NE2	2.32	0.45
6:BG:125:PHE:HB3	6:BG:166:ASP:HB2	1.97	0.45
6:BG:138:GLN:HE22	6:BG:153:ARG:N	2.15	0.45
8:BK:77:LEU:HG	8:BK:78:THR:N	2.32	0.45
10:BN:43:VAL:HG23	10:BN:56:ASP:O	2.17	0.45
13:B0:37:THR:CG2	13:B0:40:LYS:HB2	2.40	0.45
14:BQ:51:ALA:HB3	14:BQ:73:LEU:HD23	1.98	0.45
15:BR:107:ASP:CG	15:BR:109:GLU:HB2	2.42	0.45
17:B2:89:GLN:HE21	17:B2:90:PRO:HD2	1.81	0.45
21:BV:115:GLY:HA2	21:BV:177:PRO:HD3	1.98	0.45
27:B5:3:LYS:HE3	27:B5:3:LYS:C	2.36	0.45
31:CA:130:A:O4'	47:CT:63:ARG:HD3	2.16	0.45
31:CA:134:A:H1'	31:CA:325:A:C5	2.52	0.45
31:CA:250:A:H4'	31:CA:251:G:O5'	2.17	0.45
31:CA:353:A:C2'	31:CA:354:G:OP2	2.64	0.45
31:CA:1115:C:H2'	31:CA:1116:C:H6	1.82	0.45
31:CA:1318:A:H5''	49:CV:10:PHE:CD2	2.51	0.45
31:CA:1442:G:C5	31:CA:1446:A:C6	3.05	0.45
32:CE:124:SER:HB2	32:CE:125:PRO:CD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:178:ARG:HD2	38:CK:71:GLY:C	2.41	0.45
32:CE:189:ASP:OD1	32:CE:205:ASP:OD2	2.34	0.45
32:CE:192:SER:OG	32:CE:193:ASP:N	2.49	0.45
33:CF:47:LEU:HD12	33:CF:47:LEU:HA	1.76	0.45
35:CH:57:LYS:HB2	35:CH:61:TYR:HE2	1.82	0.45
37:CJ:87:VAL:HG11	37:CJ:155:ARG:HA	1.99	0.45
45:CR:18:PHE:O	45:CR:19:PRO:C	2.58	0.45
52:CB:50:A:N1	52:CB:52:U:H5''	2.32	0.45
52:CB:77:C:C4	52:CB:78:C:C4	3.04	0.45
53:CD:5:G:N2	53:CD:70:C:C2	2.84	0.45
31:DA:161:A:C6	31:DA:162:A:C6	3.04	0.45
31:DA:986:A:H2'	31:DA:987:G:O4'	2.16	0.45
31:DA:1347:G:O2'	31:DA:1373:G:O6	2.28	0.45
34:DG:24:GLU:N	34:DG:24:GLU:CD	2.70	0.45
34:DG:31:CYS:O	34:DG:31:CYS:SG	2.75	0.45
34:DG:49:ARG:HA	34:DG:49:ARG:HE	1.82	0.45
37:DJ:146:GLU:OE2	37:DJ:146:GLU:HA	2.16	0.45
38:DK:11:THR:HG22	38:DK:15:ASN:ND2	2.32	0.45
38:DK:109:ILE:HD11	38:DK:111:ILE:HG12	1.98	0.45
40:DM:22:LYS:HE2	40:DM:90:LEU:HD11	1.98	0.45
49:DV:8:GLY:O	49:DV:9:VAL:CB	2.62	0.45
50:DW:67:ALA:HA	50:DW:73:HIS:HA	1.98	0.45
52:DB:45:U:C2'	52:DB:46:G:H5''	2.46	0.45
1:AA:71:A:OP2	1:AA:112:U:O2'	2.29	0.45
1:AA:360:G:C2'	1:AA:361:G:H5'	2.47	0.45
1:AA:525:U:H5'	1:AA:556:G:OP1	2.17	0.45
1:AA:537:C:H3'	1:AA:539:G:H8	1.82	0.45
1:AA:840:C:H2'	1:AA:841:A:C8	2.52	0.45
1:AA:848:G:O6	1:AA:929:G:H2'	2.17	0.45
1:AA:905:U:C3'	1:AA:906:G:H5''	2.47	0.45
1:AA:1060:U:N3	1:AA:1088:A:H8	2.15	0.45
1:AA:1535:U:N3	1:AA:1537:C:C1'	2.80	0.45
1:AA:2320:A:C8	1:AA:2333:A:N6	2.85	0.45
1:AA:2639:A:H1'	1:AA:2778:A:C2	2.52	0.45
2:AB:21:G:N2	2:AB:63:G:C4	2.84	0.45
6:AG:117:PHE:CZ	6:AG:119:GLY:HA2	2.52	0.45
6:AG:182:LYS:HA	6:AG:182:LYS:HD3	1.73	0.45
10:AN:22:ILE:HA	10:AN:22:ILE:HD12	1.46	0.45
12:AP:105:GLU:O	12:AP:105:GLU:HG2	2.17	0.45
13:A0:70:LEU:C	13:A0:72:ASP:H	2.25	0.45
14:AQ:56:LEU:O	14:AQ:58:LEU:HD22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:124:ASP:O	15:AR:125:ARG:C	2.58	0.45
1:BA:27:G:N1	1:BA:512:G:O2'	2.47	0.45
1:BA:64:A:O3'	19:BT:71:GLY:HA3	2.17	0.45
1:BA:68:G:C2'	1:BA:69:C:O5'	2.65	0.45
1:BA:295:G:C4	1:BA:344:G:N2	2.85	0.45
1:BA:751:A:C6	1:BA:789:A:C5	3.04	0.45
1:BA:779:U:OP1	3:BD:49:ILE:CG2	2.64	0.45
1:BA:781:A:C2	1:BA:1776:G:N3	2.78	0.45
1:BA:1104:C:H6	1:BA:1104:C:O5'	2.00	0.45
1:BA:1174:A:H5'	1:BA:1175:U:H5''	1.99	0.45
1:BA:1190:G:OP1	11:BO:32:THR:HA	2.17	0.45
1:BA:1324:G:N2	1:BA:1331:A:C4	2.85	0.45
1:BA:1392:A:N6	1:BA:1393:A:N6	2.65	0.45
1:BA:1421:G:C2	1:BA:1422:G:N7	2.84	0.45
1:BA:1669:A:H5''	1:BA:2550:G:OP1	2.17	0.45
1:BA:1849:G:H2'	1:BA:1850:G:H8	1.81	0.45
1:BA:2088:G:C2	1:BA:2232:U:O2	2.70	0.45
1:BA:2103:C:H2'	1:BA:2104:G:H8	1.81	0.45
1:BA:2213:U:H3'	1:BA:2213:U:H6	1.81	0.45
1:BA:2335:A:N7	1:BA:2337:G:C5	2.85	0.45
1:BA:2419:U:O4	30:B8:31:HIS:CE1	2.69	0.45
1:BA:2419:U:H6	1:BA:2419:U:O5'	2.00	0.45
1:BA:2749:A:O2'	7:BH:59:ARG:HD3	2.16	0.45
3:BD:239:ARG:O	3:BD:240:ALA:HB2	2.16	0.45
5:BF:53:THR:HG23	5:BF:55:GLY:N	2.25	0.45
8:BK:131:LYS:HA	8:BK:132:PRO:O	2.17	0.45
11:BO:30:THR:O	11:BO:31:ALA:HB3	2.15	0.45
11:BO:102:ARG:C	11:BO:104:GLY:H	2.25	0.45
11:BO:146:VAL:HG22	11:BO:147:LEU:HD12	1.98	0.45
15:BR:74:ARG:NH1	15:BR:74:ARG:CG	2.58	0.45
15:BR:100:TYR:HB3	15:BR:103:ARG:NH1	2.32	0.45
16:B1:49:HIS:HA	16:B1:52:ARG:HB2	1.99	0.45
21:BV:62:PRO:O	21:BV:63:ASP:HB3	2.17	0.45
22:B3:36:ILE:HD12	22:B3:36:ILE:H	1.81	0.45
26:B4:53:GLU:HG3	26:B4:53:GLU:O	2.16	0.45
28:B6:26:ASN:O	28:B6:28:ARG:NH1	2.49	0.45
29:B7:36:GLN:HE21	29:B7:36:GLN:HB2	1.63	0.45
31:CA:58:C:N3	31:CA:354:G:O6	2.49	0.45
31:CA:266:G:O5'	31:CA:267:C:H5	1.99	0.45
31:CA:629:G:N1	31:CA:630:G:C6	2.85	0.45
31:CA:797:C:O2'	31:CA:798:G:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:812:C:H1'	31:CA:813:U:OP2	2.16	0.45
31:CA:903:G:H2'	31:CA:904:C:H6	1.82	0.45
31:CA:1125:U:O4	40:CM:5:ARG:CD	2.65	0.45
31:CA:1250:A:N3	31:CA:1370:G:O2'	2.44	0.45
31:CA:1347:G:OP2	39:CL:107:ARG:HG2	2.17	0.45
32:CE:7:VAL:HG21	32:CE:217:ARG:NH2	2.32	0.45
32:CE:194:PRO:O	32:CE:195:ASP:C	2.60	0.45
35:CH:57:LYS:H	35:CH:57:LYS:HG2	1.62	0.45
47:CT:45:HIS:CD2	47:CT:65:ILE:HG12	2.52	0.45
53:CC:66:C:O2'	53:CC:67:C:H5'	2.16	0.45
53:CD:6:G:H2'	53:CD:7:G:C8	2.51	0.45
53:CD:8:U:H1'	53:CD:49:C:H1'	1.97	0.45
53:CD:18:C:H3'	53:CD:18:C:O2	2.16	0.45
31:DA:250:A:C1'	31:DA:251:G:OP2	2.60	0.45
31:DA:438:G:H4'	34:DG:123:HIS:ND1	2.31	0.45
31:DA:449:C:O2	31:DA:449:C:O4'	2.34	0.45
31:DA:615:C:C2	31:DA:616:G:C8	3.05	0.45
31:DA:960:U:N3	31:DA:1225:A:C4	2.75	0.45
31:DA:1127:G:H1	31:DA:1144:G:H1	1.64	0.45
31:DA:1316:G:N2	31:DA:1319:A:OP2	2.50	0.45
33:DF:39:ILE:O	33:DF:43:LEU:HB2	2.16	0.45
47:DT:44:ALA:HA	47:DT:71:PHE:O	2.16	0.45
1:AA:196:A:O2'	1:AA:805:G:O6	2.25	0.45
1:AA:218:A:C2	1:AA:235:U:H4'	2.52	0.45
1:AA:242:G:H5'	30:A8:62:LEU:HD21	1.96	0.45
1:AA:627:A:H62	11:AO:84:ASN:HD21	1.64	0.45
1:AA:1056:G:OP2	1:AA:1056:G:H2'	2.17	0.45
1:AA:1241:A:H2'	1:AA:1242:A:O5'	2.16	0.45
1:AA:1517:G:H4'	1:AA:1556:C:HO2'	1.82	0.45
1:AA:1538:G:H8	1:AA:1538:G:O5'	2.00	0.45
1:AA:1649:G:C6	1:AA:2009:G:O6	2.70	0.45
1:AA:1694:C:H5'	1:AA:1694:C:C6	2.50	0.45
1:AA:1795:C:C4	1:AA:1796:U:C5	3.05	0.45
1:AA:2032:G:O2'	4:AE:145:LYS:HE3	2.17	0.45
1:AA:2038:G:H2'	1:AA:2039:C:O4'	2.17	0.45
1:AA:2312:U:O2	6:AG:42:GLY:HA3	2.16	0.45
1:AA:2517:C:C6	1:AA:2542:A:N7	2.85	0.45
1:AA:2544:G:H8	1:AA:2544:G:O5'	1.99	0.45
1:AA:2639:A:H2'	1:AA:2640:G:O4'	2.17	0.45
1:AA:2740:A:C6	1:AA:2764:A:C8	3.05	0.45
3:AD:25:THR:CG2	3:AD:26:LYS:HD2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:259:THR:HG22	3:AD:260:ARG:N	2.30	0.45
6:AG:11:TYR:CE2	6:AG:16:ARG:HD2	2.52	0.45
7:AH:26:VAL:HG12	7:AH:79:VAL:HG21	1.99	0.45
9:AM:51:PHE:CE2	9:AM:119:ARG:HG2	2.52	0.45
9:AM:132:ALA:HB1	9:AM:133:GLN:NE2	2.32	0.45
13:A0:74:LYS:H	13:A0:74:LYS:HG2	1.42	0.45
1:BA:101:G:H2'	1:BA:102:G:OP1	2.17	0.45
1:BA:319:C:O2'	1:BA:320:A:H5'	2.17	0.45
1:BA:856:C:C2'	1:BA:857:C:O5'	2.65	0.45
1:BA:886:C:O2'	1:BA:887:A:O5'	2.32	0.45
1:BA:997:G:C2	1:BA:998:C:C6	3.05	0.45
1:BA:1058:U:H2'	1:BA:1059:G:C8	2.51	0.45
1:BA:1217:C:OP1	16:B1:15:LYS:NZ	2.32	0.45
1:BA:1531:C:N4	1:BA:1540:G:H1	2.13	0.45
1:BA:1759:A:H4'	1:BA:2715:C:O4'	2.17	0.45
1:BA:2292:C:OP1	14:BQ:17:ARG:NH2	2.50	0.45
1:BA:2360:A:H2'	1:BA:2361:A:O4'	2.17	0.45
1:BA:2705:A:O2'	1:BA:2852:G:OP1	2.33	0.45
3:BD:94:LEU:HA	3:BD:94:LEU:HD23	1.69	0.45
3:BD:94:LEU:HG	3:BD:104:TYR:CE2	2.51	0.45
4:BE:36:ARG:NH2	4:BE:88:GLY:CA	2.80	0.45
4:BE:47:VAL:HG11	4:BE:49:LEU:CD2	2.41	0.45
4:BE:125:GLY:HA3	4:BE:134:ILE:HD13	1.99	0.45
6:BG:76:SER:OG	6:BG:82:LEU:O	2.31	0.45
8:BK:8:PRO:HD3	8:BK:15:VAL:CG2	2.47	0.45
10:BN:2:ILE:HB	10:BN:33:ALA:HB3	1.99	0.45
10:BN:7:TYR:HE1	10:BN:20:MET:HB2	1.79	0.45
11:BO:15:ARG:NH1	11:BO:15:ARG:CB	2.75	0.45
13:B0:84:ALA:N	13:B0:85:PRO:CD	2.79	0.45
14:BQ:26:LEU:HD23	14:BQ:26:LEU:C	2.42	0.45
17:B2:21:ARG:HH11	17:B2:21:ARG:HG3	1.82	0.45
18:BS:59:VAL:CG1	18:BS:60:ASN:N	2.80	0.45
20:BU:49:VAL:O	20:BU:50:ARG:C	2.60	0.45
21:BV:8:TYR:HA	21:BV:62:PRO:CD	2.47	0.45
22:B3:26:TYR:O	22:B3:29:GLN:HB2	2.16	0.45
31:CA:64:G:H4'	31:CA:65:U:H5'	1.98	0.45
31:CA:148:G:N2	31:CA:175:C:O2	2.50	0.45
31:CA:160:A:N1	31:CA:161:A:C2	2.84	0.45
31:CA:197:A:N7	31:CA:221:C:H4'	2.31	0.45
31:CA:712:A:C6	31:CA:713:G:C6	3.04	0.45
31:CA:903:G:H2'	31:CA:904:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1031:G:C4	31:CA:1032:A:C8	3.05	0.45
31:CA:1154:G:C2'	31:CA:1155:G:H5'	2.47	0.45
31:CA:1342:C:H2'	31:CA:1343:G:H8	1.81	0.45
32:CE:61:LEU:CD1	32:CE:66:GLY:HA3	2.43	0.45
32:CE:82:ARG:HB3	32:CE:83:MET:HE2	1.99	0.45
33:CF:65:ALA:O	33:CF:66:VAL:C	2.59	0.45
33:CF:108:ASN:OD1	33:CF:109:PRO:HD2	2.17	0.45
33:CF:149:ALA:HA	33:CF:201:TYR:O	2.17	0.45
33:CF:152:ILE:HG12	33:CF:167:TRP:HB2	1.99	0.45
34:CG:10:ARG:NH1	34:CG:10:ARG:CB	2.77	0.45
34:CG:110:PHE:CE2	34:CG:148:VAL:HG23	2.52	0.45
38:CK:80:ILE:HG22	38:CK:137:VAL:CG1	2.46	0.45
41:CN:41:THR:HG21	41:CN:71:LYS:CB	2.47	0.45
41:CN:59:TYR:CE2	41:CN:63:LEU:HD11	2.52	0.45
43:CP:40:ASN:HD21	43:CP:42:ALA:HB3	1.81	0.45
45:CR:54:ARG:O	45:CR:57:LEU:HB2	2.16	0.45
31:DA:407:G:C6	31:DA:408:A:C6	3.05	0.45
31:DA:438:G:H1'	31:DA:494:U:O4	2.16	0.45
31:DA:530:G:O6	54:D1:21:U:H1'	2.16	0.45
31:DA:665:A:H1'	31:DA:733:A:O4'	2.16	0.45
31:DA:719:C:O2'	48:DU:49:LYS:HB3	2.16	0.45
31:DA:1118:C:H2'	31:DA:1119:C:O4'	2.17	0.45
31:DA:1240:U:H3'	31:DA:1241:G:C5'	2.47	0.45
31:DA:1281:U:H3'	31:DA:1282:C:H5	1.82	0.45
32:DE:55:PHE:HD1	32:DE:58:ILE:HD12	1.82	0.45
32:DE:96:ARG:O	32:DE:98:LEU:HD23	2.16	0.45
32:DE:137:ARG:C	32:DE:137:ARG:HH11	2.17	0.45
34:DG:8:VAL:CG1	34:DG:21:LEU:HD22	2.47	0.45
37:DJ:60:LYS:HD2	37:DJ:60:LYS:HA	1.78	0.45
40:DM:8:LEU:HG	40:DM:96:ILE:HG23	1.99	0.45
40:DM:75:ILE:HG13	40:DM:76:ASN:N	2.32	0.45
41:DN:48:ILE:HG12	41:DN:64:ALA:N	2.32	0.45
45:DR:3:ILE:HG22	45:DR:38:ARG:NH2	2.32	0.45
47:DT:67:LYS:O	47:DT:68:ARG:HB3	2.17	0.45
49:DV:27:GLU:O	49:DV:47:HIS:CE1	2.69	0.45
49:DV:65:ASN:CA	49:DV:66:MET:HE3	2.47	0.45
49:DV:80:TYR:C	49:DV:82:GLY:H	2.25	0.45
53:DD:22:A:H2	53:DD:47:G:H2'	1.80	0.45
1:AA:248:G:H5'	1:AA:250:G:N7	2.32	0.45
1:AA:515:A:C2'	1:AA:516:C:H5'	2.47	0.45
1:AA:519:U:H5''	18:AS:25:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:610:C:H2'	1:AA:611:C:H6	1.81	0.45
1:AA:1094:U:O2'	1:AA:1096:A:P	2.75	0.45
1:AA:1544:C:O2	1:AA:1544:C:H2'	2.15	0.45
1:AA:1649:G:C6	1:AA:2009:G:C6	3.05	0.45
1:AA:2119:A:C5	1:AA:2171:A:H2	2.34	0.45
1:AA:2415:G:C4'	11:AO:67:MET:H	2.12	0.45
1:AA:2480:C:H5'	1:AA:2481:G:OP2	2.17	0.45
1:AA:2578:G:OP2	1:AA:2578:G:H4'	2.17	0.45
3:AD:237:GLU:OE2	3:AD:237:GLU:HA	2.17	0.45
4:AE:201:THR:CG2	4:AE:202:LYS:N	2.80	0.45
8:AK:124:GLY:H	8:AK:142:VAL:HG23	1.83	0.45
9:AM:46:VAL:HG11	9:AM:48:MET:CG	2.47	0.45
13:A0:48:VAL:O	13:A0:49:ASP:C	2.60	0.45
16:A1:90:VAL:HG12	16:A1:91:ASP:N	2.30	0.45
16:A1:92:ARG:HD2	17:A2:11:GLN:HB2	1.99	0.45
17:A2:52:VAL:O	17:A2:52:VAL:HG22	2.17	0.45
20:AU:45:VAL:HG12	20:AU:60:PHE:CD1	2.51	0.45
21:AV:121:HIS:C	21:AV:123:ASP:N	2.71	0.45
22:A3:27:GLU:HA	22:A3:67:VAL:O	2.17	0.45
26:A4:56:VAL:HG11	49:CV:64:GLU:OE1	2.17	0.45
1:BA:270:A:H5''	23:BZ:98:LEU:HD22	1.99	0.45
1:BA:534:U:H5'	16:B1:42:ALA:HB1	1.99	0.45
1:BA:718:A:H2'	1:BA:719:C:O4'	2.17	0.45
1:BA:780:G:N2	1:BA:783:A:H62	2.10	0.45
1:BA:828:U:O2	1:BA:828:U:C3'	2.65	0.45
1:BA:860:U:N3	1:BA:2268:A:C8	2.85	0.45
1:BA:1062:G:OP1	1:BA:1062:G:H8	1.99	0.45
1:BA:1097:U:H2'	1:BA:1098:A:O4'	2.17	0.45
1:BA:1257:C:O2'	5:BF:84:VAL:HG23	2.17	0.45
1:BA:1841:U:H2'	1:BA:1842:G:C8	2.52	0.45
1:BA:2209:C:C2	1:BA:2216:G:N1	2.84	0.45
2:BB:30:C:H2'	2:BB:31:C:H5'	1.98	0.45
2:BB:89(A):A:C8	2:BB:90:C:H1'	2.52	0.45
4:BE:134:ILE:O	4:BE:135:HIS:C	2.60	0.45
4:BE:167:VAL:HG12	4:BE:170:LEU:HD11	1.98	0.45
6:BG:114:ILE:HG22	6:BG:115:ARG:O	2.16	0.45
7:BH:87:LEU:HA	7:BH:163:TYR:O	2.17	0.45
11:BO:147:LEU:CD2	11:BO:148:LEU:N	2.80	0.45
12:BP:26:TYR:CE1	12:BP:139:GLU:HG3	2.49	0.45
13:B0:51:LEU:HD13	13:B0:70:LEU:HD21	1.99	0.45
18:BS:95:ILE:O	18:BS:95:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BW:9:GLN:O	24:BW:13:ALA:CB	2.65	0.45
24:BW:46:GLN:HB2	24:BW:49:LYS:NZ	2.32	0.45
28:B6:15:GLU:HG2	28:B6:16:CYS:N	2.30	0.45
31:CA:97:U:H2'	31:CA:99:C:C6	2.52	0.45
31:CA:859:A:H2'	31:CA:860:A:O4'	2.17	0.45
31:CA:1378:C:N3	31:CA:1379:G:H1'	2.31	0.45
31:CA:1403:C:O2'	31:CA:1404:C:H5'	2.16	0.45
31:CA:1501:C:N4	31:CA:1504:G:C2	2.85	0.45
32:CE:124:SER:C	32:CE:126:GLU:H	2.25	0.45
34:CG:170:VAL:CG2	34:CG:171:GLY:H	2.21	0.45
38:CK:7:ALA:HB2	38:CK:85:ARG:CD	2.46	0.45
44:CQ:23:ARG:NH1	44:CQ:30:ALA:HB2	2.32	0.45
50:CW:9:ASN:C	50:CW:9:ASN:HD22	2.25	0.45
52:CB:35:G:H8	52:CB:35:G:O5'	1.99	0.45
53:CD:21:U:C2'	53:CD:22:A:H5''	2.47	0.45
31:DA:153:C:H2'	31:DA:154:C:C6	2.52	0.45
31:DA:160:A:O2'	31:DA:344:A:N6	2.50	0.45
31:DA:245:C:C2	31:DA:284:G:C2	3.05	0.45
31:DA:374:A:C6	31:DA:375:U:C4	3.04	0.45
31:DA:1241:G:H2'	31:DA:1242:C:C6	2.52	0.45
31:DA:1319:A:OP1	49:DV:10:PHE:CG	2.70	0.45
31:DA:1477:C:O2'	31:DA:1478:C:H5'	2.16	0.45
35:DH:43:LEU:HD21	35:DH:133:TYR:CD1	2.52	0.45
37:DJ:15:ASP:O	37:DJ:19:GLY:HA2	2.16	0.45
37:DJ:22:LEU:HD23	37:DJ:62:PHE:CE2	2.50	0.45
42:DO:24:VAL:CG1	42:DO:26:ALA:HB2	2.43	0.45
53:DD:7:G:H3'	53:DD:8:U:H5'	1.99	0.45
53:DD:55:U:C4	53:DD:56:U:H5	2.35	0.45
1:AA:46:C:OP2	1:AA:215:G:H2'	2.17	0.44
1:AA:58:G:H5'	19:AT:74:PRO:HB3	1.98	0.44
1:AA:60:G:C8	1:AA:63:U:C5	3.05	0.44
1:AA:128:C:H2'	1:AA:129:C:H6	1.82	0.44
1:AA:250:G:H2'	1:AA:251:A:C8	2.52	0.44
1:AA:690:G:H2'	1:AA:691:C:C6	2.52	0.44
1:AA:883:G:H2'	1:AA:884:C:O4'	2.17	0.44
1:AA:930:U:O2	1:AA:930:U:O4'	2.32	0.44
1:AA:1057:A:C8	1:AA:1086:A:H2'	2.52	0.44
1:AA:1142(A):A:N7	1:AA:1144:G:C6	2.85	0.44
1:AA:1161:C:O2'	17:A2:8:GLY:CA	2.66	0.44
1:AA:1394:U:C4	1:AA:1395:A:C6	3.05	0.44
1:AA:1564:C:O2'	1:AA:1565:C:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2243:U:H2'	1:AA:2244:U:C6	2.52	0.44
1:AA:2314:C:O2'	1:AA:2315:G:H5'	2.17	0.44
1:AA:2348:U:C2'	1:AA:2349:G:H5'	2.47	0.44
1:AA:2511:U:O4	1:AA:2575:C:N3	2.50	0.44
1:AA:2605:U:H2'	1:AA:2606:C:C6	2.52	0.44
1:AA:2732:G:H3'	1:AA:2733:A:O4'	2.17	0.44
1:AA:2820:A:H1'	13:A0:3:HIS:CD2	2.52	0.44
1:AA:2864:G:C6	1:AA:2865:U:N3	2.86	0.44
1:AA:2898:U:H2'	1:AA:2899:G:H8	1.80	0.44
2:AB:89(A):A:C5	2:AB:90:C:H1'	2.51	0.44
5:AF:176:LEU:HD21	5:AF:180:GLY:C	2.42	0.44
11:AO:52:GLU:OE1	11:AO:55:ARG:NH1	2.50	0.44
15:AR:78:LEU:HD13	15:AR:78:LEU:C	2.42	0.44
18:AS:86:LEU:HD12	18:AS:87:PRO:N	2.31	0.44
18:AS:88:ARG:NH1	18:AS:94:ASP:OD1	2.49	0.44
24:AW:8:LYS:HB2	24:AW:8:LYS:HE3	1.54	0.44
25:AX:9:VAL:HG11	25:AX:55:ARG:NH1	2.32	0.44
28:A6:28:ARG:NH1	28:A6:29:ASN:OD1	2.50	0.44
1:BA:9:U:O4	1:BA:2629:A:C6	2.69	0.44
1:BA:76:C:O3'	24:BW:59:ARG:HG3	2.17	0.44
1:BA:646:A:H2'	1:BA:647:G:O4'	2.17	0.44
1:BA:696:G:C4	1:BA:697:C:C5	3.05	0.44
1:BA:706:A:H2'	1:BA:707:G:O4'	2.16	0.44
1:BA:754:C:H2'	1:BA:755:C:C6	2.51	0.44
1:BA:920:G:H2'	1:BA:921:G:H8	1.82	0.44
1:BA:1196:C:O4'	1:BA:1227:A:C2	2.70	0.44
1:BA:1450:C:N3	1:BA:1451:C:N4	2.66	0.44
1:BA:1914:C:H2'	1:BA:1915:U:O4'	2.17	0.44
1:BA:2684:U:C1'	10:BN:70:LYS:HD3	2.47	0.44
2:BB:3:C:O2	2:BB:3:C:H2'	2.16	0.44
2:BB:29:A:C2	2:BB:56:G:N1	2.86	0.44
3:BD:5:LYS:HB2	3:BD:5:LYS:HZ3	1.77	0.44
3:BD:83:GLU:OE1	3:BD:104:TYR:OH	2.19	0.44
3:BD:218:ARG:HB3	3:BD:219:PRO:HD2	1.98	0.44
4:BE:26:ILE:HG22	4:BE:28:ALA:N	2.31	0.44
5:BF:38:ARG:HH11	5:BF:38:ARG:HG3	1.82	0.44
5:BF:178:PRO:HB2	5:BF:201:VAL:CG1	2.38	0.44
6:BG:67:LYS:HB3	26:B4:6:HIS:CD2	2.49	0.44
6:BG:97:ASP:H	6:BG:100:TRP:CD1	2.33	0.44
9:BM:102:ALA:O	9:BM:106:MET:HG3	2.16	0.44
11:BO:58:THR:O	11:BO:58:THR:CG2	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:135:LEU:O	11:BO:139:LYS:HB2	2.17	0.44
12:BP:54:MET:C	12:BP:56:ARG:N	2.73	0.44
13:B0:103:ARG:HD2	13:B0:108:GLY:O	2.17	0.44
14:BQ:3:ARG:HD2	14:BQ:4:LEU:H	1.82	0.44
18:BS:62:HIS:HB2	18:BS:64:MET:HG3	1.99	0.44
18:BS:70:TYR:H	18:BS:70:TYR:HD2	1.64	0.44
20:BU:8:LYS:HG3	20:BU:94:LYS:HZ1	1.82	0.44
21:BV:70:LEU:HD11	21:BV:98:MET:HE3	1.99	0.44
21:BV:129:SER:HB2	21:BV:131:ARG:HD3	1.98	0.44
21:BV:175:VAL:O	21:BV:177:PRO:CD	2.55	0.44
23:BZ:95:LEU:O	23:BZ:97:LEU:N	2.50	0.44
24:BW:16:LEU:HD12	24:BW:16:LEU:N	2.31	0.44
26:B4:31:ILE:HG22	26:B4:32:TYR:CD1	2.52	0.44
31:CA:41:G:C2	31:CA:402:G:C2	3.05	0.44
31:CA:360:A:H2'	31:CA:361:G:O4'	2.18	0.44
31:CA:405:U:O4	34:CG:2:GLY:N	2.49	0.44
31:CA:1016:A:H8	31:CA:1016:A:O5'	2.00	0.44
31:CA:1083:U:H5	31:CA:1084:G:C6	2.34	0.44
31:CA:1237:C:C5	31:CA:1336:C:C5	3.05	0.44
31:CA:1310:G:O2'	31:CA:1311:G:H5'	2.17	0.44
32:CE:198:ASP:HA	38:CK:68:ARG:NH2	2.31	0.44
38:CK:118:VAL:O	38:CK:119:LEU:HD23	2.16	0.44
52:CB:42:U:H3'	52:CB:43:A:H8	1.82	0.44
31:DA:219:C:H2'	31:DA:220:G:O4'	2.17	0.44
31:DA:1028(B):C:H3'	31:DA:1029:G:C5'	2.47	0.44
31:DA:1054:C:N4	52:DB:35:G:C1'	2.80	0.44
31:DA:1118:C:P	39:DL:104:ARG:HD2	2.57	0.44
31:DA:1133:G:C4	31:DA:1134:G:C8	3.05	0.44
31:DA:1337:G:H4'	31:DA:1338:G:OP1	2.18	0.44
34:DG:22:LYS:HG3	34:DG:26:CYS:SG	2.57	0.44
35:DH:100:VAL:CG2	35:DH:118:ILE:HG22	2.48	0.44
39:DL:97:LYS:HG3	39:DL:98:PRO:N	2.31	0.44
40:DM:22:LYS:CD	40:DM:26:ALA:HB2	2.41	0.44
42:DO:60:LEU:HD21	42:DO:66:VAL:HG22	1.98	0.44
42:DO:120:TYR:CD2	42:DO:120:TYR:N	2.86	0.44
1:AA:81:G:H2'	1:AA:82:G:O4'	2.17	0.44
1:AA:620:G:H2'	1:AA:620:G:N3	2.33	0.44
1:AA:639:U:O2'	1:AA:640:C:H5'	2.17	0.44
1:AA:817:C:H4'	1:AA:932:G:C5	2.52	0.44
1:AA:849:A:N1	25:AX:25:ALA:HB2	2.32	0.44
1:AA:916:G:C2'	1:AA:917:A:H5''	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1085:A:N3	1:AA:1086:A:N7	2.65	0.44
1:AA:1125:G:C6	1:AA:1126:A:N6	2.85	0.44
1:AA:1210:A:H5''	1:AA:1212:G:O4'	2.18	0.44
1:AA:1632:A:C6	1:AA:1633:G:C6	3.06	0.44
1:AA:2102:U:H3	1:AA:2187:G:H1	1.65	0.44
1:AA:2308:G:H2'	1:AA:2308:G:N3	2.31	0.44
1:AA:2310:A:C5'	1:AA:2311:A:OP2	2.65	0.44
1:AA:2646:C:H2'	1:AA:2647:U:O4'	2.17	0.44
2:AB:91:C:H5''	21:AV:79:ARG:NH1	2.33	0.44
3:AD:145:VAL:O	3:AD:153:ALA:HA	2.17	0.44
5:AF:107:LYS:O	5:AF:108:LYS:C	2.61	0.44
5:AF:205:ARG:HH11	5:AF:205:ARG:CG	2.17	0.44
7:AH:77:LYS:HE2	7:AH:138:LYS:HE3	1.98	0.44
11:AO:23:PRO:C	11:AO:25:SER:H	2.24	0.44
11:AO:106:LEU:HD23	11:AO:106:LEU:HA	1.65	0.44
12:AP:43:THR:O	12:AP:44:ALA:C	2.60	0.44
17:A2:62:LEU:HB2	17:A2:93:GLU:O	2.16	0.44
17:A2:89:GLN:HE21	17:A2:89:GLN:CA	2.24	0.44
18:AS:2:GLU:OE1	18:AS:72:LYS:NZ	2.40	0.44
20:AU:20:TYR:CD1	20:AU:42:VAL:HG23	2.52	0.44
21:AV:101:PRO:C	21:AV:102:LEU:HD23	2.42	0.44
22:A3:69:PHE:CE2	22:A3:79:VAL:CG2	3.00	0.44
23:AZ:6:GLU:HG3	23:AZ:61:ARG:O	2.16	0.44
23:AZ:91:LYS:HA	23:AZ:91:LYS:NZ	2.32	0.44
26:A4:37:SER:CB	26:A4:42:PHE:CD1	3.01	0.44
28:A6:27:LYS:NZ	28:A6:27:LYS:HB2	2.30	0.44
1:BA:99:U:C4'	1:BA:102:G:H1'	2.46	0.44
1:BA:389:G:H22	11:BO:71:VAL:HG12	1.83	0.44
1:BA:540:G:C6	1:BA:541:C:C4	3.06	0.44
1:BA:817:C:O2	1:BA:839:U:H4'	2.18	0.44
1:BA:862:G:H5'	2:BB:79:C:H4'	1.97	0.44
1:BA:974:G:O2'	1:BA:975:G:N7	2.43	0.44
1:BA:1085:A:HO2'	1:BA:1086:A:H8	1.61	0.44
1:BA:1473:G:H2'	1:BA:1474:C:O4'	2.17	0.44
5:BF:164:ARG:HG2	5:BF:175:THR:OG1	2.17	0.44
6:BG:102:PHE:CE2	6:BG:141:PHE:HE1	2.35	0.44
7:BH:61:HIS:HA	7:BH:64:LEU:HD12	1.99	0.44
9:BM:17:ASP:O	9:BM:18:ALA:HB3	2.17	0.44
9:BM:39:ARG:C	9:BM:41:ASP:H	2.25	0.44
10:BN:70:LYS:NZ	10:BN:70:LYS:HB3	2.33	0.44
13:B0:65:LEU:HD12	13:B0:65:LEU:HA	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BR:16:ARG:NH2	15:BR:19:LEU:HD21	2.32	0.44
16:B1:76:TYR:C	16:B1:76:TYR:CD2	2.95	0.44
20:BU:76:CYS:CB	20:BU:96:ILE:HD11	2.47	0.44
21:BV:159:PRO:O	21:BV:161:VAL:HG22	2.18	0.44
26:B4:49:PHE:CZ	43:DP:63:THR:O	2.70	0.44
27:B5:56:LYS:HD3	27:B5:56:LYS:HA	1.70	0.44
30:B8:54:GLU:C	30:B8:56:GLU:N	2.74	0.44
31:CA:16:A:C2'	31:CA:17:U:H5'	2.47	0.44
31:CA:142:G:C2	31:CA:143:A:C5	3.06	0.44
31:CA:411:A:N7	31:CA:413:G:H1'	2.32	0.44
31:CA:491:G:H2'	31:CA:492:G:O4'	2.17	0.44
31:CA:599:C:H2'	31:CA:600:C:H6	1.82	0.44
31:CA:651:C:H2'	31:CA:651:C:O2	2.16	0.44
31:CA:1025:U:O2'	31:CA:1026:G:P	2.74	0.44
31:CA:1054:C:N4	52:CB:35:G:N9	2.66	0.44
31:CA:1092:A:C6	31:CA:1093:A:C6	3.05	0.44
31:CA:1498:U:C1'	31:CA:1499:A:OP2	2.65	0.44
31:CA:1504:G:H1'	31:CA:1505:G:OP2	2.16	0.44
32:CE:77:ALA:HB2	32:CE:211:ILE:HD13	1.98	0.44
34:CG:3:ARG:H	34:CG:3:ARG:HG3	1.54	0.44
35:CH:47:LYS:HE2	35:CH:47:LYS:HB2	1.90	0.44
39:CL:46:ALA:O	39:CL:78:LYS:HA	2.17	0.44
45:CR:30:ALA:HA	45:CR:85:LEU:HD11	1.98	0.44
47:CT:9:VAL:O	47:CT:21:VAL:HA	2.17	0.44
47:CT:26:GLN:HG2	47:CT:37:LYS:HG2	1.99	0.44
50:CW:71:THR:CG2	50:CW:72:LEU:H	2.14	0.44
31:DA:111:G:H8	31:DA:111:G:O5'	2.00	0.44
31:DA:925:G:N2	31:DA:1503:A:OP1	2.48	0.44
31:DA:1449:C:C2'	31:DA:1450:U:OP1	2.64	0.44
31:DA:1486:G:H2'	31:DA:1487:G:O4'	2.17	0.44
37:DJ:26:PHE:CD2	37:DJ:30:ILE:HD11	2.51	0.44
39:DL:12:GLU:O	39:DL:68:GLY:N	2.50	0.44
39:DL:27:THR:HG23	39:DL:31:GLN:O	2.17	0.44
46:DS:52:ASP:HB3	46:DS:55:ARG:HB2	2.00	0.44
53:DD:50:G:C2	53:DD:67:C:O2	2.71	0.44
1:AA:305:U:H2'	1:AA:306:U:C6	2.53	0.44
1:AA:582:G:H2'	1:AA:583:G:H8	1.80	0.44
1:AA:1063:G:C6	1:AA:1064:C:C4	3.04	0.44
1:AA:1514:U:N3	1:AA:1515:C:C4	2.85	0.44
1:AA:1589:C:O2	1:AA:1589:C:H2'	2.17	0.44
1:AA:2024:G:C5	1:AA:2025:C:C5	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2119:A:N1	1:AA:2170:A:C5	2.86	0.44
1:AA:2240:C:O2'	1:AA:2241:A:H5'	2.18	0.44
1:AA:2286:A:C8	28:A6:37:ARG:NH1	2.85	0.44
1:AA:2309:A:N9	1:AA:2310:A:C8	2.80	0.44
3:AD:69:ARG:HH12	3:AD:117:VAL:CG1	2.31	0.44
4:AE:59:VAL:CG2	4:AE:73:GLU:HG2	2.47	0.44
4:AE:103:ASP:OD2	4:AE:168:MET:HE2	2.17	0.44
4:AE:111:ARG:HG2	13:A0:1:MET:SD	2.57	0.44
6:AG:83:ARG:O	6:AG:85:GLY:N	2.50	0.44
6:AG:121:ASN:HA	6:AG:122:PRO:HD2	1.82	0.44
7:AH:56:SER:OG	7:AH:58:GLU:HG3	2.17	0.44
14:AQ:48:LEU:CD2	14:AQ:82:ILE:HD11	2.48	0.44
15:AR:93:ARG:CG	15:AR:93:ARG:NH1	2.78	0.44
15:AR:124:ASP:O	15:AR:127:ALA:N	2.50	0.44
16:A1:85:LYS:C	16:A1:87:GLY:H	2.25	0.44
20:AU:21:LYS:HB3	20:AU:21:LYS:HE2	1.50	0.44
21:AV:76:LEU:H	21:AV:76:LEU:CD2	2.23	0.44
23:AZ:94:LEU:HD23	23:AZ:94:LEU:HA	1.78	0.44
24:AW:5:GLU:CD	24:AW:5:GLU:H	2.24	0.44
25:AX:10:LYS:O	25:AX:53:LEU:HD22	2.17	0.44
28:A6:15:GLU:CB	28:A6:20:ASN:HB2	2.47	0.44
28:A6:28:ARG:HB2	28:A6:30:THR:O	2.17	0.44
1:BA:82:G:N2	1:BA:104:U:H5	2.15	0.44
1:BA:270(V):G:H2'	1:BA:270(W):G:H8	1.82	0.44
1:BA:324:A:N6	1:BA:338:G:O2'	2.45	0.44
1:BA:826:U:H2'	1:BA:828:U:O4'	2.17	0.44
1:BA:1006:C:C2	1:BA:1138:G:C2	3.05	0.44
1:BA:1069:A:H4'	1:BA:1070:A:H5''	2.00	0.44
1:BA:1225:C:C3'	17:B2:85:LYS:CB	2.78	0.44
1:BA:1257:C:H4'	5:BF:83:PHE:CE2	2.52	0.44
1:BA:1439:A:C2	1:BA:1553:A:C4	3.06	0.44
1:BA:1651:G:C2	1:BA:2007:C:N3	2.85	0.44
1:BA:1786:A:H1'	1:BA:1938:A:H61	1.79	0.44
1:BA:1792:G:H2'	1:BA:1793:C:C6	2.52	0.44
1:BA:1889:A:O2'	1:BA:2087:G:H5'	2.18	0.44
1:BA:2017:U:H5''	1:BA:2018:G:P	2.57	0.44
1:BA:2182:G:H2'	1:BA:2183:C:C6	2.52	0.44
1:BA:2881:C:H2'	1:BA:2882:A:O4'	2.18	0.44
2:BB:15:A:C2'	2:BB:16:G:OP1	2.65	0.44
4:BE:9:VAL:HG23	15:BR:8:LYS:NZ	2.32	0.44
6:BG:64:THR:HG23	6:BG:65:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BN:47:ILE:HD12	10:BN:47:ILE:HA	1.92	0.44
11:BO:112:LEU:H	11:BO:128:HIS:HD2	1.65	0.44
11:BO:147:LEU:HD23	11:BO:148:LEU:H	1.81	0.44
13:B0:38:VAL:HB	13:B0:39:PRO:HD3	1.99	0.44
16:B1:50:ARG:NH2	16:B1:50:ARG:HB2	2.32	0.44
17:B2:67:GLY:O	17:B2:88:ARG:HD3	2.16	0.44
20:BU:2:ARG:C	20:BU:3:VAL:HG23	2.42	0.44
21:BV:5:LEU:HD11	21:BV:44:PHE:HA	1.99	0.44
26:B4:24:THR:O	26:B4:25:TYR:HB2	2.17	0.44
31:CA:31:G:C2'	31:CA:48:C:N4	2.80	0.44
31:CA:947:G:H2'	31:CA:948:C:O4'	2.17	0.44
31:CA:1002:G:O2'	31:CA:1003:G:H5'	2.18	0.44
31:CA:1149:C:P	39:CL:9:ARG:NH2	2.90	0.44
31:CA:1153:C:N3	31:CA:1154:G:C8	2.85	0.44
31:CA:1255:G:O6	40:CM:43:ARG:NH2	2.51	0.44
32:CE:80:ILE:CD1	32:CE:208:ILE:HG23	2.45	0.44
33:CF:70:VAL:CG1	33:CF:72:LYS:H	2.29	0.44
33:CF:188:LEU:HD13	33:CF:195:VAL:CG1	2.48	0.44
34:CG:138:TYR:HD2	34:CG:139:ARG:N	2.15	0.44
36:CI:101:ALA:HB2	48:CU:28:GLU:CD	2.42	0.44
39:CL:21:PRO:HA	39:CL:58:HIS:O	2.16	0.44
43:CP:34:LEU:HD22	43:CP:34:LEU:HA	1.78	0.44
43:CP:80:ARG:NH1	49:CV:65:ASN:O	2.50	0.44
31:DA:113:G:O4'	31:DA:354:G:H4'	2.17	0.44
31:DA:346:G:N2	31:DA:347:G:C8	2.85	0.44
31:DA:628:G:O2'	31:DA:629:G:H5'	2.16	0.44
31:DA:762:C:H2'	31:DA:763:G:C8	2.53	0.44
31:DA:818:G:C2	31:DA:820:U:O2'	2.66	0.44
31:DA:929:G:N2	31:DA:1389:C:C2	2.85	0.44
31:DA:1069:C:C5	31:DA:1094:G:O6	2.71	0.44
31:DA:1121:U:C4	31:DA:1122:U:C5	3.05	0.44
31:DA:1199:U:H4'	40:DM:54:PHE:CE1	2.53	0.44
31:DA:1225:A:OP2	31:DA:1225:A:C8	2.69	0.44
32:DE:84:GLU:OE1	32:DE:216:SER:HA	2.17	0.44
32:DE:92:TYR:C	32:DE:92:TYR:HD2	2.25	0.44
33:DF:47:LEU:HD22	33:DF:47:LEU:HA	1.72	0.44
38:DK:73:ASP:OD2	38:DK:75:ARG:NE	2.50	0.44
40:DM:82:ILE:O	40:DM:86:MET:HB2	2.16	0.44
42:DO:74:GLY:O	42:DO:75:HIS:HB3	2.18	0.44
42:DO:75:HIS:HD2	42:DO:77:LEU:H	1.62	0.44
43:DP:40:ASN:HB3	43:DP:43:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DV:65:ASN:HB2	49:DV:66:MET:CE	2.48	0.44
53:DC:14:A:C4	53:DC:23:G:C2	3.06	0.44
53:DC:17:C:OP1	53:DC:62:C:H5'	2.17	0.44
53:DD:22:A:H2'	53:DD:47:G:O6	2.18	0.44
1:AA:269:U:O2	1:AA:269:U:C2'	2.65	0.44
1:AA:588:U:H1'	5:AF:90:PHE:CG	2.53	0.44
1:AA:652:C:O2	1:AA:652:C:H2'	2.16	0.44
1:AA:822:U:OP2	1:AA:946:G:OP2	2.35	0.44
1:AA:883:G:N1	1:AA:884:C:O2	2.51	0.44
1:AA:1392:A:N6	1:AA:1393:A:N6	2.65	0.44
1:AA:1580:A:H8	1:AA:1580:A:OP2	2.00	0.44
1:AA:2104:G:N2	1:AA:2186:G:C4	2.85	0.44
1:AA:2134:A:OP2	1:AA:2157:G:N2	2.50	0.44
1:AA:2415:G:H2'	1:AA:2416:C:H6	1.83	0.44
1:AA:2591:C:OP2	3:AD:238:GLY:C	2.60	0.44
1:AA:2619:C:H2'	1:AA:2620:C:C6	2.52	0.44
1:AA:2733:A:H3'	1:AA:2734:A:C5'	2.48	0.44
1:AA:2839:G:H2'	1:AA:2840:C:H6	1.82	0.44
2:AB:51:G:H2'	2:AB:52:A:C1'	2.48	0.44
3:AD:32:SER:HA	3:AD:35:LYS:O	2.18	0.44
9:AM:58:ASP:OD1	9:AM:59:LYS:N	2.50	0.44
9:AM:95:PRO:O	9:AM:96:GLU:O	2.35	0.44
10:AN:17:ARG:NH2	10:AN:47:ILE:HD13	2.33	0.44
17:A2:76:LYS:HG3	17:A2:81:TYR:HD1	1.82	0.44
20:AU:96:ILE:CG1	20:AU:99:CYS:H	2.30	0.44
21:AV:39:VAL:HG21	21:AV:44:PHE:HB2	1.98	0.44
21:AV:53:ILE:HG22	21:AV:71:VAL:HG13	2.00	0.44
23:AZ:83:GLU:O	23:AZ:85:LEU:N	2.50	0.44
28:A6:44:ARG:N	28:A6:44:ARG:HD3	2.32	0.44
1:BA:19:C:H2'	1:BA:20:C:C6	2.52	0.44
1:BA:654(I):C:N4	1:BA:654(M):C:H42	2.13	0.44
1:BA:835:A:N6	1:BA:836:G:C6	2.85	0.44
1:BA:912:C:H2'	1:BA:912:C:O2	2.16	0.44
1:BA:952:G:C4	1:BA:966:G:C2	3.06	0.44
1:BA:1607:C:H4'	1:BA:1608:A:C5'	2.47	0.44
1:BA:1665:A:O2'	1:BA:1666:G:H5'	2.18	0.44
1:BA:1733:G:O2'	1:BA:1734:C:H5'	2.16	0.44
1:BA:1903:G:OP1	3:BD:241:PRO:HB2	2.16	0.44
1:BA:2117:A:N1	1:BA:2162:G:OP1	2.51	0.44
1:BA:2751:G:H5'	1:BA:2752:C:OP2	2.18	0.44
2:BB:98:G:O2'	2:BB:99:A:O4'	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:67:PHE:HB3	3:BD:153:ALA:H	1.83	0.44
3:BD:223:GLY:CA	3:BD:226:MET:HG3	2.41	0.44
4:BE:35:GLN:HB2	4:BE:48:GLN:HB2	1.99	0.44
5:BF:124:LEU:O	5:BF:124:LEU:HG	2.17	0.44
7:BH:54:ARG:HB2	7:BH:55:PRO:HD2	1.99	0.44
8:BK:2:LYS:H	8:BK:2:LYS:HG2	1.48	0.44
8:BK:98:ALA:HA	8:BK:109:ILE:HD11	1.99	0.44
11:BO:79:ARG:O	11:BO:111:ARG:N	2.35	0.44
19:BT:44:GLU:HG3	19:BT:50:LYS:O	2.18	0.44
20:BU:54:LYS:C	20:BU:55:TYR:CG	2.96	0.44
24:BW:60:LEU:HD12	24:BW:60:LEU:HA	1.72	0.44
26:B4:15:ILE:O	26:B4:32:TYR:O	2.35	0.44
30:B8:41:ILE:O	30:B8:44:LYS:N	2.50	0.44
31:CA:18:C:H5'	31:CA:1079:G:H1'	1.99	0.44
31:CA:148:G:C2	31:CA:175:C:O2	2.71	0.44
31:CA:185:A:H2'	31:CA:186:C:H6	1.81	0.44
31:CA:412:A:C1'	31:CA:413:G:OP2	2.65	0.44
31:CA:600:C:H2'	31:CA:600:C:O2	2.17	0.44
31:CA:793:U:OP2	31:CA:793:U:H4'	2.18	0.44
31:CA:852:G:H2'	31:CA:853:G:O5'	2.18	0.44
31:CA:878:G:C5'	38:CK:89:PRO:HG2	2.48	0.44
31:CA:1137:C:O2'	31:CA:1138:G:N3	2.50	0.44
31:CA:1262:C:H42	31:CA:1273:G:H1	1.64	0.44
31:CA:1278:U:H5'	31:CA:1279:A:O4'	2.18	0.44
31:CA:1321:C:C3'	31:CA:1322:C:H5''	2.31	0.44
31:CA:1367:C:O2'	40:CM:48:THR:HG21	2.18	0.44
31:CA:1480:G:H2'	31:CA:1481:U:O4'	2.18	0.44
34:CG:120:LEU:HD23	34:CG:120:LEU:HA	1.66	0.44
38:CK:33:GLU:O	38:CK:34:GLU:C	2.60	0.44
41:CN:90:GLY:O	41:CN:91:ARG:C	2.60	0.44
41:CN:124:LYS:HE3	41:CN:125:PHE:HE1	1.78	0.44
44:CQ:24:CYS:HB2	44:CQ:40:CYS:HB3	1.91	0.44
52:CB:12:G:H1	52:CB:24:C:H42	1.65	0.44
52:CB:21:A:H2'	52:CB:22:G:H4'	1.99	0.44
53:CD:16:C:H2'	53:CD:16:C:O2	2.16	0.44
53:CD:21:U:H3'	53:CD:22:A:C5'	2.48	0.44
31:DA:77:C:H2'	31:DA:78:G:H5''	1.99	0.44
31:DA:519:C:H2'	31:DA:520:A:O4'	2.18	0.44
31:DA:691:G:H2'	31:DA:692:U:C6	2.52	0.44
31:DA:1046:A:H2'	31:DA:1047:G:H5'	2.00	0.44
31:DA:1372:U:H2'	31:DA:1373:G:C5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1413:A:H2'	31:DA:1414:U:O4'	2.17	0.44
31:DA:1455:G:H5'	50:DW:32:ALA:HB2	1.99	0.44
32:DE:5:ILE:CD1	32:DE:55:PHE:HB3	2.47	0.44
32:DE:237:ALA:O	32:DE:238:LEU:CB	2.64	0.44
33:DF:90:GLU:HA	33:DF:90:GLU:OE2	2.18	0.44
36:DI:13:ASN:ND2	36:DI:55:ASP:OD2	2.49	0.44
39:DL:23:ASN:HD22	39:DL:23:ASN:N	2.16	0.44
46:DS:1:MET:HB2	46:DS:1:MET:HE3	1.42	0.44
53:DC:19:G:H4'	53:DC:20:G:OP1	2.18	0.44
1:AA:228:A:C2'	1:AA:228:A:N3	2.80	0.44
1:AA:250:G:C6	1:AA:251:A:C6	3.05	0.44
1:AA:301:G:HO2'	1:AA:302:C:H6	1.64	0.44
1:AA:432:A:H2'	1:AA:433:C:C6	2.52	0.44
1:AA:459:U:H4'	29:A7:40:TRP:CH2	2.53	0.44
1:AA:506:G:H5''	1:AA:509:C:H1'	1.99	0.44
1:AA:810:U:O5'	1:AA:810:U:H6	2.01	0.44
1:AA:818:G:H5'	1:AA:839:U:OP1	2.18	0.44
1:AA:847:U:O4	1:AA:933:A:C6	2.69	0.44
1:AA:910:A:N7	12:AP:13:GLN:HG3	2.32	0.44
1:AA:991:C:H2'	1:AA:992:C:H6	1.83	0.44
1:AA:1215:G:C4	1:AA:1216:G:C8	3.05	0.44
1:AA:1268:A:H2'	1:AA:1269:A:O4'	2.16	0.44
1:AA:1530:G:C5	1:AA:1531:C:C4	3.05	0.44
1:AA:1577:C:H2'	1:AA:1578:U:C1'	2.47	0.44
1:AA:1586:A:H3'	1:AA:1587:A:H8	1.83	0.44
1:AA:1707:G:H8	1:AA:1707:G:O5'	2.01	0.44
1:AA:1819:A:H5''	3:AD:158:ALA:CB	2.47	0.44
1:AA:1905:C:O2	1:AA:1905:C:H2'	2.17	0.44
1:AA:1972:A:H2'	1:AA:1973:G:C8	2.51	0.44
1:AA:2086:U:H2'	1:AA:2087:G:C8	2.52	0.44
1:AA:2302:G:N1	1:AA:2315:G:C6	2.85	0.44
1:AA:2323:G:H2'	1:AA:2324:C:O4'	2.17	0.44
1:AA:2862:G:C5	1:AA:2863:C:C5	3.06	0.44
4:AE:58:ARG:O	4:AE:58:ARG:HG3	2.16	0.44
6:AG:173:LEU:HB3	6:AG:178:PHE:HD2	1.82	0.44
8:AK:58:LEU:O	8:AK:61:ARG:N	2.49	0.44
11:AO:46:LYS:O	11:AO:47:ASP:CB	2.65	0.44
11:AO:81:GLN:HE21	11:AO:81:GLN:HB2	1.63	0.44
12:AP:43:THR:HG22	12:AP:94:VAL:HG12	2.00	0.44
13:A0:103:ARG:NH1	18:AS:40:ASN:HD22	2.16	0.44
15:AR:58:ASN:O	15:AR:59:THR:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:90:LEU:N	20:AU:90:LEU:HD13	2.32	0.44
22:A3:53:MET:CB	22:A3:59:LEU:HD23	2.44	0.44
23:AZ:53:VAL:CG2	23:AZ:74:VAL:HG22	2.47	0.44
26:A4:24:THR:O	26:A4:25:TYR:HB2	2.18	0.44
30:A8:7:HIS:CE1	30:A8:9:GLY:HA3	2.53	0.44
1:BA:303:U:H2'	1:BA:304:G:O4'	2.17	0.44
1:BA:304:G:H2'	1:BA:305:U:C6	2.53	0.44
1:BA:419:C:H2'	1:BA:420:C:H6	1.82	0.44
1:BA:773:U:C5'	3:BD:47:GLY:HA2	2.48	0.44
1:BA:1043:C:H42	1:BA:1112:G:H1	1.66	0.44
1:BA:1525:G:H2'	1:BA:1526:G:C8	2.52	0.44
1:BA:1725:G:C2	1:BA:1741:C:C2	3.05	0.44
1:BA:1932:A:N6	1:BA:1968:G:H1'	2.32	0.44
1:BA:2009:G:C2'	1:BA:2010:G:H5'	2.47	0.44
1:BA:2134:A:N6	1:BA:2157:G:H1'	2.32	0.44
1:BA:2431:U:O2'	1:BA:2433:A:N7	2.43	0.44
1:BA:2599:G:OP2	3:BD:236:GLY:N	2.50	0.44
3:BD:118:VAL:HG22	3:BD:119:ALA:H	1.81	0.44
3:BD:270:ILE:C	3:BD:271:ILE:HG12	2.42	0.44
5:BF:53:THR:HG22	5:BF:56:GLU:HG3	2.00	0.44
5:BF:64:ILE:HG13	5:BF:65:TRP:CD1	2.52	0.44
6:BG:56:ALA:HA	6:BG:59:GLU:HB3	1.99	0.44
9:BM:15:LEU:HD13	9:BM:16:ILE:N	2.32	0.44
9:BM:127:ASP:HB2	9:BM:128:HIS:H	1.58	0.44
11:BO:49:ARG:HA	30:B8:55:ALA:HB1	2.00	0.44
11:BO:102:ARG:C	11:BO:104:GLY:N	2.74	0.44
13:B0:90:ARG:CZ	13:B0:117:VAL:HG11	2.48	0.44
15:BR:19:LEU:HA	15:BR:20:PRO:HD3	1.70	0.44
15:BR:51:ARG:O	15:BR:61:PHE:HA	2.18	0.44
19:BT:50:LYS:O	19:BT:51:VAL:HB	2.18	0.44
22:B3:25:ARG:HD2	22:B3:25:ARG:HA	1.86	0.44
28:B6:29:ASN:O	28:B6:32:ASN:ND2	2.49	0.44
31:CA:262:A:H3'	31:CA:263:A:C8	2.53	0.44
31:CA:380:G:N2	31:CA:384:G:C5	2.86	0.44
31:CA:914:A:H2'	31:CA:915:A:C8	2.51	0.44
31:CA:953:G:C6	31:CA:1229:A:C6	3.05	0.44
31:CA:1064:G:O2'	31:CA:1190:G:N2	2.50	0.44
31:CA:1137:C:O2'	31:CA:1138:G:C4	2.71	0.44
31:CA:1504:G:H3'	31:CA:1504:G:OP2	2.16	0.44
32:CE:70:PHE:CE2	32:CE:163:PHE:HD1	2.36	0.44
34:CG:199:ASN:OD1	34:CG:199:ASN:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CM:47:PHE:CZ	44:CQ:37:PHE:HE2	2.35	0.44
42:CO:21:VAL:CG1	42:CO:24:LEU:HG	2.45	0.44
48:CU:21:LYS:HB3	48:CU:57:GLY:HA3	1.99	0.44
31:DA:35:G:C2	31:DA:550:G:N3	2.85	0.44
31:DA:166:G:C2'	31:DA:167:G:H5'	2.48	0.44
31:DA:542:G:H2'	31:DA:543:C:H6	1.82	0.44
31:DA:1032:A:N7	31:DA:1032(A):G:H1'	2.33	0.44
31:DA:1055:A:C8	31:DA:1206:G:N2	2.86	0.44
31:DA:1057:G:H2'	31:DA:1058:G:O4'	2.16	0.44
31:DA:1099:G:C6	31:DA:1100:C:C2	3.05	0.44
31:DA:1129:C:N3	31:DA:1139:G:N1	2.66	0.44
31:DA:1157:A:H8	31:DA:1158:C:N4	2.16	0.44
31:DA:1286:A:H8	31:DA:1287:A:H4'	1.75	0.44
33:DF:100:ALA:O	33:DF:101:LEU:HB2	2.18	0.44
37:DJ:111:ARG:HB3	37:DJ:113:GLU:HG2	1.98	0.44
38:DK:14:ARG:O	38:DK:18:ARG:HD3	2.18	0.44
38:DK:29:SER:HB3	38:DK:32:LYS:CD	2.47	0.44
45:DR:39:LEU:HD12	45:DR:56:LEU:HB2	2.00	0.44
46:DS:43:LYS:HA	46:DS:48:TRP:HB3	1.99	0.44
1:AA:51:G:H1'	1:AA:119:A:N1	2.33	0.44
1:AA:229:A:O2'	1:AA:230:U:OP1	2.34	0.44
1:AA:356:G:H2'	1:AA:357:A:H8	1.83	0.44
1:AA:660:G:C6	1:AA:661:C:C4	3.06	0.44
1:AA:1103:A:H2'	1:AA:1104:C:H5'	1.99	0.44
1:AA:1337:G:C4	1:AA:1338:G:C8	3.06	0.44
1:AA:1448:G:O2'	1:AA:1528:A:N6	2.50	0.44
1:AA:1453:A:O2'	1:AA:1454:U:H2'	2.17	0.44
1:AA:1609:A:C5	1:AA:1616:A:C8	3.05	0.44
1:AA:1757:U:C2'	1:AA:1758:G:OP1	2.65	0.44
1:AA:2035:G:C4'	1:AA:2036:C:OP2	2.63	0.44
1:AA:2148:G:H2'	1:AA:2149:G:H8	1.83	0.44
1:AA:2392:A:H2	1:AA:2424:C:N4	2.15	0.44
1:AA:2393:A:H4'	11:AO:62:LEU:H	1.81	0.44
1:AA:2807:G:H5'	1:AA:2808:U:OP2	2.18	0.44
1:AA:2820:A:O2'	1:AA:2821:A:OP1	2.31	0.44
2:AB:20:C:C2'	2:AB:21:G:H5'	2.47	0.44
2:AB:20:C:O2'	2:AB:21:G:H5'	2.18	0.44
2:AB:43:C:P	6:AG:67:LYS:HZ1	2.40	0.44
6:AG:64:THR:HG1	6:AG:94:LEU:HD13	1.82	0.44
8:AK:27:ARG:CD	23:AZ:71:TYR:CE1	3.01	0.44
10:AN:24:VAL:HG23	10:AN:33:ALA:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:58:VAL:HG12	10:AN:94:ARG:HH21	1.83	0.44
11:AO:68:GLN:HG2	30:A8:12:LYS:HD3	2.00	0.44
14:AQ:12:PHE:O	14:AQ:13:ARG:C	2.60	0.44
15:AR:37:GLY:O	15:AR:38:ASN:HB3	2.16	0.44
15:AR:106:SER:HA	15:AR:110:ILE:HG21	1.99	0.44
16:A1:61:TRP:CE2	16:A1:94:ASN:HA	2.52	0.44
18:AS:22:ASP:HA	18:AS:25:ARG:NH1	2.33	0.44
1:BA:6:A:C2'	1:BA:7:G:H5'	2.48	0.44
1:BA:7:G:N2	1:BA:8:A:N3	2.66	0.44
1:BA:214:G:H1'	1:BA:216:A:O2'	2.17	0.44
1:BA:340:A:H2'	1:BA:341:G:C5'	2.47	0.44
1:BA:383:U:C2	1:BA:385:C:C4	3.05	0.44
1:BA:690:G:H1	1:BA:772:C:H42	1.65	0.44
1:BA:903:C:H2'	1:BA:904:C:C6	2.52	0.44
1:BA:957:A:C6	1:BA:2459:A:C8	3.05	0.44
1:BA:979:G:H3'	1:BA:980:A:H5''	2.00	0.44
1:BA:1005:C:C2	1:BA:1143:A:C2	3.05	0.44
1:BA:1071:G:C8	1:BA:1089:G:C5	3.06	0.44
1:BA:1359:A:H2'	1:BA:1360:A:H5'	2.00	0.44
1:BA:1652:A:H62	13:B0:11:ASN:ND2	2.07	0.44
1:BA:1654:A:C1'	1:BA:2823:A:H5'	2.48	0.44
1:BA:1670:C:C5	1:BA:1671:U:C4	3.06	0.44
1:BA:1827:C:O2'	1:BA:1970:A:N3	2.37	0.44
1:BA:2287:A:C4	1:BA:2289:G:C8	3.06	0.44
1:BA:2575:C:H5''	1:BA:2576:G:OP2	2.18	0.44
1:BA:2697:G:C2	1:BA:2711:A:C2	3.06	0.44
1:BA:2727:G:C2	1:BA:2728:U:C6	3.05	0.44
1:BA:2839:G:H21	13:B0:92:GLY:HA2	1.82	0.44
2:BB:114:G:H2'	2:BB:115:G:O4'	2.18	0.44
10:BN:73:ASP:CG	15:BR:32:TYR:HH	2.25	0.44
11:BO:79:ARG:HB3	11:BO:110:TYR:CD1	2.51	0.44
14:BQ:19:LYS:O	14:BQ:20:ARG:HB3	2.17	0.44
30:B8:8:LYS:HD3	30:B8:8:LYS:H	1.82	0.44
30:B8:15:LYS:HG2	30:B8:16:ILE:N	2.33	0.44
31:CA:130:A:O2'	31:CA:131:C:O5'	2.27	0.44
31:CA:256:U:OP1	47:CT:17:LYS:NZ	2.51	0.44
31:CA:560:U:HO2'	31:CA:561:U:P	2.27	0.44
31:CA:1116:C:O2'	31:CA:1117:G:H5'	2.18	0.44
31:CA:1116:C:C2'	31:CA:1117:G:H5'	2.47	0.44
31:CA:1145:C:H4'	31:CA:1146:A:C8	2.51	0.44
31:CA:1256:A:OP2	33:CF:26:LYS:NZ	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1320:C:O2	49:CV:72:GLY:HA3	2.18	0.44
31:CA:1349:A:H2'	31:CA:1350:A:H8	1.82	0.44
31:CA:1489:G:H2'	31:CA:1490:C:O4'	2.18	0.44
32:CE:8:LYS:HE2	32:CE:8:LYS:N	2.22	0.44
33:CF:58:GLU:C	33:CF:59:ARG:HG3	2.43	0.44
34:CG:10:ARG:HB2	34:CG:10:ARG:CZ	2.47	0.44
39:CL:83:ARG:HA	39:CL:86:VAL:CG1	2.48	0.44
41:CN:23:ALA:HA	41:CN:28:THR:HG23	2.00	0.44
46:CS:33:ILE:H	46:CS:33:ILE:HG13	1.61	0.44
47:CT:65:ILE:HG21	47:CT:69:LYS:HE2	1.98	0.44
49:CV:64:GLU:O	49:CV:67:VAL:HG23	2.18	0.44
50:CW:48:LYS:HD3	50:CW:51:GLU:OE2	2.18	0.44
53:CC:19:G:C6	53:CC:59:A:C6	3.05	0.44
31:DA:186:C:C1'	50:DW:81:LYS:NZ	2.73	0.44
31:DA:222:U:H2'	31:DA:223:U:C6	2.53	0.44
31:DA:452:A:H2'	31:DA:453:A:H8	1.79	0.44
31:DA:788:U:C5	31:DA:789:U:C5	3.05	0.44
31:DA:824:C:H2'	31:DA:825:G:C8	2.52	0.44
31:DA:939:G:H5''	37:DJ:102:ARG:CZ	2.48	0.44
31:DA:1114:C:H2'	31:DA:1115:C:C6	2.51	0.44
31:DA:1310:G:OP1	43:DP:77:ASN:OD1	2.36	0.44
32:DE:129:GLU:O	32:DE:130:ARG:C	2.60	0.44
33:DF:21:ARG:HB3	33:DF:21:ARG:NH1	2.33	0.44
33:DF:58:GLU:CB	33:DF:65:ALA:HB3	2.47	0.44
37:DJ:73:MET:O	37:DJ:141:VAL:HG12	2.17	0.44
39:DL:4:TYR:HD2	39:DL:85:LEU:HA	1.82	0.44
42:DO:69:TYR:CG	42:DO:90:VAL:HG21	2.52	0.44
43:DP:58:GLU:HG2	43:DP:58:GLU:H	1.48	0.44
53:DD:55:U:H3	53:DD:59:A:N6	2.11	0.44
1:AA:272:G:H2'	1:AA:273:G:O4'	2.18	0.44
1:AA:557:U:H2'	1:AA:558:G:C8	2.53	0.44
1:AA:910:A:C5	12:AP:13:GLN:HG3	2.52	0.44
1:AA:1110:G:H2'	1:AA:1111:A:C8	2.52	0.44
1:AA:1581:G:O6	1:AA:1582:C:N4	2.51	0.44
1:AA:2166:G:O2'	1:AA:2167:U:OP1	2.31	0.44
1:AA:2189:U:C3'	1:AA:2190:G:H5''	2.47	0.44
1:AA:2199:A:H5''	1:AA:2205:C:OP2	2.18	0.44
1:AA:2334:G:H4'	1:AA:2335:A:OP2	2.18	0.44
1:AA:2335:A:O2'	1:AA:2336:A:P	2.76	0.44
1:AA:2364:C:O2'	1:AA:2365:G:H5'	2.18	0.44
1:AA:2481:G:C2'	1:AA:2482:G:OP2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2517:C:C5	1:AA:2542:A:C5	3.06	0.44
3:AD:61:LEU:HB3	3:AD:63:ARG:NH1	2.33	0.44
3:AD:70:TRP:CZ3	3:AD:150:LYS:HA	2.52	0.44
4:AE:195:LEU:HD23	4:AE:195:LEU:C	2.43	0.44
5:AF:32:LEU:HD13	5:AF:105:VAL:CG1	2.48	0.44
6:AG:125:PHE:CZ	6:AG:170:ARG:HA	2.53	0.44
15:AR:36:GLU:CG	15:AR:41:ARG:HD2	2.20	0.44
20:AU:30:VAL:HG22	20:AU:37:VAL:HG12	1.99	0.44
25:AX:7:LYS:HG3	25:AX:34:GLU:HG2	2.00	0.44
30:A8:23:VAL:HG13	30:A8:46:ARG:HB3	1.99	0.44
1:BA:142:G:H5''	1:BA:1598:C:O2'	2.17	0.44
1:BA:536:A:H2'	1:BA:537:C:O4'	2.17	0.44
1:BA:648:G:O2'	1:BA:649:G:H5'	2.18	0.44
1:BA:945:A:C6	1:BA:2448:A:C4	3.05	0.44
1:BA:1123:C:H2'	1:BA:1124:C:C6	2.53	0.44
1:BA:1324:G:C2	1:BA:1331:A:C2	3.06	0.44
1:BA:1374:G:H2'	1:BA:1375:C:H6	1.80	0.44
1:BA:1496:A:H1'	1:BA:1577:C:O2'	2.17	0.44
1:BA:1668:A:H4'	1:BA:1669:A:O5'	2.17	0.44
1:BA:2271:G:C5	1:BA:2272:U:C4	3.06	0.44
2:BB:97:G:C2'	2:BB:98:G:H5'	2.48	0.44
3:BD:177:LEU:HB3	3:BD:178:PRO:HD2	2.00	0.44
8:BK:98:ALA:C	8:BK:100:ALA:N	2.75	0.44
8:BK:98:ALA:C	8:BK:100:ALA:H	2.24	0.44
10:BN:64:ARG:HB2	10:BN:83:ALA:HB3	2.00	0.44
15:BR:90:GLN:NE2	15:BR:121:ILE:HD11	2.28	0.44
21:BV:8:TYR:HB2	21:BV:38:TYR:CZ	2.53	0.44
21:BV:93:ASP:HB2	21:BV:131:ARG:NH2	2.32	0.44
23:BZ:78:LYS:O	23:BZ:78:LYS:CE	2.66	0.44
30:B8:29:LYS:C	30:B8:31:HIS:N	2.76	0.44
31:CA:22:G:H2'	31:CA:23:C:H6	1.81	0.44
31:CA:186(D):C:O2'	31:CA:186(E):C:H5'	2.17	0.44
31:CA:261:U:O2'	31:CA:263:A:N7	2.46	0.44
31:CA:652:U:O2'	31:CA:653:A:H5''	2.17	0.44
31:CA:960:U:O2	31:CA:960:U:C2'	2.64	0.44
31:CA:998:G:O2'	31:CA:998(A):C:H5'	2.18	0.44
31:CA:1162:C:N3	31:CA:1175:G:C2	2.86	0.44
31:CA:1336:C:OP1	31:CA:1336:C:C4'	2.63	0.44
34:CG:88:VAL:HG13	35:CH:97:GLY:HA2	2.00	0.44
36:CI:3:ARG:NH1	36:CI:38:GLU:OE2	2.51	0.44
37:CJ:113:GLU:HG3	37:CJ:119:ARG:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CM:40:LEU:HB2	40:CM:69:ASN:HB3	1.98	0.44
49:CV:79:THR:HG22	49:CV:79:THR:O	2.18	0.44
50:CW:23:ARG:O	50:CW:27:LYS:HB3	2.18	0.44
50:CW:81:LYS:O	50:CW:82:SER:C	2.61	0.44
53:CC:19:G:C2	53:CC:59:A:C4	3.05	0.44
54:C1:16:A:H2'	54:C1:17:U:O4'	2.17	0.44
31:DA:262:A:H5'	50:DW:74:LYS:HG3	2.00	0.44
31:DA:1158:C:N3	31:DA:1160:G:N7	2.66	0.44
33:DF:69:HIS:N	33:DF:69:HIS:ND1	2.65	0.44
33:DF:119:ARG:HH22	33:DF:140:ARG:HG2	1.81	0.44
34:DG:20:TYR:CD2	34:DG:27:TYR:CE1	3.05	0.44
35:DH:57:LYS:O	35:DH:61:TYR:CD2	2.71	0.44
35:DH:100:VAL:HG22	35:DH:118:ILE:CG2	2.48	0.44
53:DC:20:G:H4'	53:DC:21:U:OP2	2.14	0.44
1:AA:760:G:H2'	1:AA:761:A:H5'	1.99	0.44
1:AA:863:A:H2'	1:AA:864:G:C8	2.53	0.44
1:AA:1064:C:O2	1:AA:1075:C:C2	2.70	0.44
1:AA:1238:G:O2'	1:AA:1239:G:H5'	2.17	0.44
1:AA:1265:A:C8	1:AA:1267:U:C2	3.06	0.44
1:AA:2112:G:N2	53:CD:58:A:C2	2.86	0.44
1:AA:2164:C:C6	1:AA:2165:G:N7	2.85	0.44
1:AA:2292:C:HO2'	1:AA:2293:C:H5'	1.83	0.44
1:AA:2346:A:C8	28:A6:24:GLU:CD	2.96	0.44
1:AA:2347:C:H2'	1:AA:2348:U:C6	2.53	0.44
1:AA:2394:C:O2	53:CD:77:A:O2'	2.36	0.44
1:AA:2467:C:H4'	12:AP:123:HIS:CG	2.53	0.44
1:AA:2647:U:H2'	1:AA:2648:C:C6	2.52	0.44
1:AA:2811:G:C2'	1:AA:2812:G:H5'	2.48	0.44
1:AA:2821:A:OP2	1:AA:2822:G:OP2	2.35	0.44
1:AA:2881:C:H5''	13:A0:117:VAL:HG21	1.99	0.44
3:AD:35:LYS:HE3	3:AD:65:ILE:N	2.32	0.44
4:AE:72:VAL:O	4:AE:73:GLU:C	2.60	0.44
6:AG:139:LEU:HD23	6:AG:144:ILE:HG22	1.99	0.44
7:AH:11:VAL:HB	7:AH:12:PRO:CD	2.41	0.44
8:AK:9:LEU:HB3	8:AK:11:ASN:O	2.17	0.44
19:AT:5:TYR:O	24:AW:36:ARG:NH2	2.50	0.44
20:AU:94:LYS:HB3	20:AU:101:LYS:HD3	1.99	0.44
25:AX:28:LEU:HA	25:AX:33:GLN:OE1	2.18	0.44
1:BA:7:G:C2	1:BA:8:A:C4	3.06	0.44
1:BA:587:C:OP2	11:BO:21:ARG:NH2	2.49	0.44
1:BA:654(A):A:C2	1:BA:654(U):A:N3	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:654(B):C:N3	1:BA:654(T):A:C2	2.86	0.44
1:BA:712:G:N2	1:BA:719:C:N3	2.56	0.44
1:BA:870:A:C2	1:BA:871:U:H1'	2.53	0.44
1:BA:914:C:H2'	1:BA:915:C:O5'	2.18	0.44
1:BA:934:G:H2'	1:BA:935:C:H6	1.83	0.44
1:BA:1027:A:N6	1:BA:1126:A:N9	2.66	0.44
1:BA:1041:C:H2'	1:BA:1042:G:C8	2.53	0.44
1:BA:1319:G:C6	1:BA:1320:C:N4	2.86	0.44
1:BA:1484:G:C6	1:BA:1485:G:C5	3.06	0.44
1:BA:2148:G:N3	1:BA:2149:G:C8	2.86	0.44
1:BA:2337:G:H2'	1:BA:2337:G:N3	2.33	0.44
1:BA:2520:C:C6	1:BA:2567:G:H1'	2.52	0.44
1:BA:2564:A:C2	1:BA:2647:U:H4'	2.52	0.44
1:BA:2801:A:H8	1:BA:2801:A:O5'	2.01	0.44
2:BB:41:U:O4	6:BG:70:VAL:HG23	2.18	0.44
4:BE:56:PRO:HD3	4:BE:72:VAL:HG12	2.00	0.44
9:BM:15:LEU:HB2	9:BM:134:ARG:CG	2.47	0.44
9:BM:36:GLY:N	9:BM:42:TRP:CZ3	2.86	0.44
9:BM:111:PRO:HA	9:BM:114:ARG:NH1	2.32	0.44
9:BM:127:ASP:O	9:BM:128:HIS:HB3	2.18	0.44
15:BR:118:ARG:O	15:BR:121:ILE:N	2.50	0.44
19:BT:66:LEU:HA	19:BT:66:LEU:HD23	1.65	0.44
21:BV:19:ARG:HE	21:BV:19:ARG:HB2	1.68	0.44
21:BV:141:VAL:CG2	21:BV:150:LEU:HG	2.48	0.44
22:B3:19:LYS:HG3	22:B3:41:ARG:HH12	1.82	0.44
24:BW:46:GLN:O	24:BW:49:LYS:HE3	2.18	0.44
30:B8:14:VAL:HG11	30:B8:22:VAL:HG13	1.98	0.44
31:CA:67:C:O2	31:CA:67:C:H2'	2.17	0.44
31:CA:102:G:C6	31:CA:103:C:N4	2.86	0.44
31:CA:303:A:C5	31:CA:304:U:C5	3.05	0.44
31:CA:464:G:O6	31:CA:466:C:H5'	2.18	0.44
31:CA:586:C:H2'	31:CA:587:G:O4'	2.17	0.44
31:CA:833:U:H2'	31:CA:834:C:C6	2.52	0.44
31:CA:1202:G:H2'	31:CA:1203:C:C5'	2.47	0.44
31:CA:1347:G:O2'	31:CA:1348:U:P	2.76	0.44
32:CE:119:GLU:HA	32:CE:119:GLU:OE2	2.18	0.44
33:CF:58:GLU:HB2	33:CF:65:ALA:HB3	1.99	0.44
34:CG:201:GLN:HA	34:CG:201:GLN:NE2	2.27	0.44
38:CK:82:HIS:HB3	38:CK:138:TRP:CD2	2.52	0.44
39:CL:86:VAL:O	39:CL:90:PRO:HA	2.17	0.44
49:CV:11:VAL:HG11	49:CV:16:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CD:19:G:H2'	53:CD:58:A:H62	1.81	0.44
31:DA:29:G:O2'	31:DA:30:U:H5'	2.18	0.44
31:DA:192:U:H2'	31:DA:193:C:C6	2.40	0.44
31:DA:677:U:H3	31:DA:713:G:H22	1.65	0.44
31:DA:762:C:H2'	31:DA:763:G:H8	1.83	0.44
31:DA:803:G:C6	31:DA:804:U:N3	2.86	0.44
31:DA:955:U:H2'	31:DA:956:U:H6	1.83	0.44
31:DA:1004:A:P	31:DA:1025:U:O4	2.75	0.44
31:DA:1057:G:O2'	31:DA:1058:G:H5'	2.17	0.44
31:DA:1243:C:O2	31:DA:1295:G:C2	2.71	0.44
31:DA:1269:A:H5''	31:DA:1270:C:OP2	2.17	0.44
32:DE:118:LEU:O	32:DE:121:LEU:N	2.48	0.44
32:DE:134:GLU:HA	32:DE:137:ARG:HB2	1.99	0.44
33:DF:95:THR:HG22	33:DF:97:LYS:HG2	2.00	0.44
34:DG:178:VAL:O	34:DG:180:GLY:N	2.50	0.44
35:DH:7:GLU:N	35:DH:35:GLY:O	2.46	0.44
35:DH:143:ARG:NH1	38:DK:77:GLU:OE1	2.51	0.44
40:DM:6:ILE:HG13	40:DM:72:VAL:HG23	1.99	0.44
40:DM:83:GLU:HA	40:DM:86:MET:HE2	1.99	0.44
43:DP:105:THR:O	43:DP:106:ASN:C	2.61	0.44
48:DU:43:PHE:O	48:DU:51:LEU:HD12	2.18	0.44
48:DU:53:ARG:HA	48:DU:56:THR:OG1	2.18	0.44
49:DV:30:LEU:HD12	49:DV:31:ILE:N	2.33	0.44
1:AA:90:U:H6	1:AA:90:U:OP1	2.00	0.44
1:AA:96:G:C2	1:AA:97:C:C6	3.06	0.44
1:AA:764:A:O4'	3:AD:213:ARG:HG3	2.17	0.44
1:AA:1056:G:HO2'	1:AA:1057:A:P	2.41	0.44
1:AA:1058:U:H2'	1:AA:1059:G:C8	2.52	0.44
1:AA:1235:G:C6	1:AA:1236:G:N1	2.86	0.44
1:AA:1261:C:C2'	1:AA:1262:A:O5'	2.66	0.44
1:AA:1491:G:O4'	3:AD:99:ASP:HB3	2.18	0.44
1:AA:2146:C:H4'	1:AA:2147:G:C4	2.53	0.44
1:AA:2316:C:H2'	1:AA:2317:C:H6	1.82	0.44
1:AA:2508:G:H5'	52:CB:85:C:H42	1.83	0.44
1:AA:2751:G:C5	7:AH:2:SER:O	2.71	0.44
2:AB:40:U:C2'	2:AB:41:U:OP1	2.65	0.44
2:AB:42:C:O3'	6:AG:67:LYS:CE	2.66	0.44
2:AB:59:A:N7	2:AB:60:C:C5	2.86	0.44
3:AD:210:GLY:O	3:AD:213:ARG:N	2.51	0.44
4:AE:8:LYS:CE	4:AE:24:THR:HG21	2.45	0.44
4:AE:79:ARG:CG	4:AE:197:ILE:CG2	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:36:VAL:HG11	5:AF:183:VAL:CG1	2.47	0.44
6:AG:7:LEU:HB2	6:AG:104:GLU:CD	2.43	0.44
6:AG:117:PHE:CE1	6:AG:119:GLY:CA	3.01	0.44
7:AH:8:PRO:HG2	7:AH:69:ARG:HH21	1.83	0.44
11:AO:96:THR:O	11:AO:98:GLU:N	2.46	0.44
13:A0:55:ALA:HA	13:A0:80:PHE:CZ	2.53	0.44
14:AQ:62:LYS:HB2	14:AQ:97:ARG:HD2	2.00	0.44
14:AQ:66:ALA:HA	14:AQ:69:VAL:CG1	2.48	0.44
16:A1:39:LEU:O	16:A1:40:PHE:C	2.61	0.44
20:AU:76:CYS:CB	20:AU:77:PRO:CD	2.96	0.44
22:A3:27:GLU:HG2	22:A3:68:GLU:HA	1.98	0.44
23:AZ:81:LYS:HA	23:AZ:81:LYS:HD2	1.79	0.44
25:AX:4:LEU:HG	25:AX:39:ASP:HB2	2.00	0.44
30:A8:2:PRO:O	30:A8:3:LYS:C	2.60	0.44
30:A8:60:LEU:O	30:A8:61:LEU:C	2.61	0.44
1:BA:154:G:H3'	1:BA:155:C:C6	2.53	0.44
1:BA:635:C:H2'	1:BA:636:G:O4'	2.18	0.44
1:BA:815:C:OP2	17:B2:82:ARG:NH1	2.51	0.44
1:BA:879:G:C2	1:BA:880:G:H1'	2.53	0.44
1:BA:971:C:C2'	1:BA:972:G:H5'	2.48	0.44
1:BA:1374:G:C2	1:BA:1375:C:C2	3.06	0.44
1:BA:1483:G:C6	1:BA:1507:A:C2	3.05	0.44
1:BA:1533:C:N4	1:BA:1539:G:C6	2.86	0.44
1:BA:1693:U:O2'	3:BD:14:ARG:NH2	2.51	0.44
1:BA:2016:U:O5'	1:BA:2016:U:H6	2.01	0.44
1:BA:2187:G:C5	1:BA:2188:C:C4	3.06	0.44
1:BA:2320:A:H1'	1:BA:2321:G:C6	2.53	0.44
1:BA:2576:G:O2'	1:BA:2579:C:OP2	2.28	0.44
1:BA:2751:G:H5'	1:BA:2752:C:P	2.57	0.44
1:BA:2801:A:H2'	1:BA:2802:G:O4'	2.18	0.44
4:BE:34:VAL:HB	4:BE:48:GLN:HE21	1.83	0.44
5:BF:25:PRO:CG	5:BF:26:ALA:H	2.31	0.44
9:BM:56:ASN:H	9:BM:125:GLY:N	2.15	0.44
11:BO:147:LEU:C	11:BO:148:LEU:HD23	2.43	0.44
13:B0:37:THR:CG2	13:B0:39:PRO:HD2	2.31	0.44
15:BR:90:GLN:HE21	15:BR:90:GLN:HA	1.82	0.44
20:BU:30:VAL:O	20:BU:36:ALA:O	2.36	0.44
22:B3:48:GLY:HA3	22:B3:80:HIS:ND1	2.33	0.44
23:BZ:65:SER:OG	23:BZ:66:HIS:HD2	2.01	0.44
26:B4:34:GLU:HG3	43:DP:3:ARG:N	2.32	0.44
30:B8:32:LEU:HA	30:B8:33:ASN:HA	1.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:16:A:O2'	31:CA:17:U:H5'	2.17	0.44
31:CA:49:U:O2'	31:CA:50:A:C2'	2.65	0.44
31:CA:84:U:H2'	31:CA:84:U:O2	2.18	0.44
31:CA:625:G:H4'	46:CS:16:HIS:CD2	2.52	0.44
31:CA:683:G:H2'	31:CA:684:A:C8	2.52	0.44
31:CA:1221:G:H4'	49:CV:77:THR:CG2	2.48	0.44
31:CA:1485:U:O2'	31:CA:1486:G:H5'	2.18	0.44
32:CE:17:PHE:O	32:CE:17:PHE:CD1	2.67	0.44
45:CR:55:GLY:O	45:CR:56:LEU:C	2.60	0.44
53:CC:20:G:C5	53:CC:58:A:C2	3.05	0.44
31:DA:115:G:C2	31:DA:289:G:N7	2.86	0.44
31:DA:448:A:C2	31:DA:449:C:C4	3.05	0.44
31:DA:735:C:H2'	31:DA:736:C:C6	2.51	0.44
31:DA:948:C:O2'	31:DA:949:A:H5'	2.17	0.44
31:DA:1027:C:O2'	31:DA:1028:C:C6	2.70	0.44
31:DA:1156:G:H5''	31:DA:1157:A:OP2	2.17	0.44
31:DA:1343:G:H2'	31:DA:1344:C:C6	2.53	0.44
31:DA:1436:U:H2'	31:DA:1437:C:O4'	2.17	0.44
33:DF:16:ARG:HA	33:DF:16:ARG:HH11	1.82	0.44
35:DH:80:ILE:HD11	35:DH:138:ALA:HB1	1.99	0.44
39:DL:8:GLY:HA2	39:DL:79:LEU:HD12	1.99	0.44
50:DW:9:ASN:HD22	50:DW:9:ASN:HA	1.62	0.44
1:AA:526:A:H5''	1:AA:527:C:OP1	2.18	0.43
1:AA:529:A:C8	1:AA:530:G:C6	3.02	0.43
1:AA:611:C:C2	1:AA:612:G:C8	3.06	0.43
1:AA:1091:G:N2	1:AA:1101:U:H1'	2.33	0.43
1:AA:1316:U:O2'	1:AA:1317:A:H5'	2.18	0.43
1:AA:1394:U:H5	1:AA:1395:A:C8	2.35	0.43
1:AA:1491:G:H5'	3:AD:99:ASP:OD2	2.17	0.43
1:AA:1710:C:H2'	1:AA:1711:C:H6	1.83	0.43
1:AA:2069:G:N2	1:AA:2070:G:H1'	2.33	0.43
1:AA:2143:C:H2'	1:AA:2144:U:O4'	2.18	0.43
1:AA:2164:C:C5	1:AA:2165:G:N7	2.86	0.43
1:AA:2436:G:C5	1:AA:2437:U:C5	3.06	0.43
1:AA:2655:G:N2	1:AA:2664:G:C4	2.86	0.43
1:AA:2818:G:C2'	1:AA:2819:G:H5'	2.47	0.43
3:AD:149:PRO:O	3:AD:150:LYS:HB2	2.18	0.43
4:AE:14:ILE:O	4:AE:15:PHE:CD2	2.71	0.43
4:AE:101:ARG:HA	4:AE:101:ARG:HD2	1.71	0.43
5:AF:10:PRO:O	5:AF:124:LEU:HD12	2.18	0.43
6:AG:111:LEU:HA	6:AG:114:ILE:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:113:LYS:HA	11:AO:129:ALA:O	2.17	0.43
11:AO:138:LEU:C	11:AO:140:ALA:H	2.26	0.43
15:AR:80:SER:HA	15:AR:81:PRO:HD3	1.85	0.43
18:AS:14:PRO:O	18:AS:15:ARG:C	2.61	0.43
20:AU:59:GLY:C	20:AU:60:PHE:CD2	2.96	0.43
27:A5:58:LEU:HD13	27:A5:60:VAL:OXT	2.18	0.43
1:BA:362:U:C6	1:BA:362:U:C3'	3.01	0.43
1:BA:466:A:H2'	1:BA:467:G:H5'	2.00	0.43
1:BA:945:A:C3'	1:BA:946:G:H5''	2.48	0.43
1:BA:1087:G:H2'	1:BA:1089:G:O4'	2.17	0.43
1:BA:1131:G:O6	1:BA:2040:C:H1'	2.18	0.43
1:BA:1204:A:N1	1:BA:1241:A:N1	2.66	0.43
1:BA:1484:G:C4	1:BA:1485:G:C8	3.06	0.43
1:BA:1589:C:H2'	1:BA:1590:U:H6	1.83	0.43
1:BA:1675:C:O5'	1:BA:1675:C:H6	2.00	0.43
1:BA:2199:A:H3'	1:BA:2205:C:H6	1.83	0.43
1:BA:2786:U:H5'	4:BE:65:GLY:HA3	2.00	0.43
1:BA:2824:C:H2'	1:BA:2825:C:O4'	2.18	0.43
3:BD:62:TYR:CE1	3:BD:64:ILE:HA	2.53	0.43
3:BD:91:ARG:HH11	3:BD:91:ARG:CG	2.17	0.43
4:BE:114:ALA:O	4:BE:157:ALA:HB1	2.18	0.43
6:BG:15:VAL:HG12	6:BG:19:LEU:HD12	2.00	0.43
6:BG:120:LEU:HB2	6:BG:180:PHE:HD2	1.83	0.43
12:BP:78:PRO:O	12:BP:79:LEU:HG	2.18	0.43
12:BP:89:ASN:O	12:BP:90:VAL:CB	2.65	0.43
14:BQ:27:SER:HB2	14:BQ:88:ASP:OD1	2.17	0.43
17:B2:41:GLY:CA	17:B2:46:VAL:HG11	2.47	0.43
21:BV:115:GLY:HA2	21:BV:175:VAL:O	2.18	0.43
21:BV:157:LEU:HD12	21:BV:161:VAL:HA	2.00	0.43
28:B6:25:LYS:HG2	28:B6:25:LYS:O	2.17	0.43
31:CA:41:G:C2	31:CA:402:G:N3	2.86	0.43
31:CA:104:G:C6	31:CA:105:G:N7	2.86	0.43
31:CA:189:U:O4	47:CT:62:SER:HB2	2.18	0.43
31:CA:686:U:H2'	31:CA:687:A:C8	2.53	0.43
31:CA:789:U:O2	31:CA:789:U:O5'	2.36	0.43
31:CA:834:C:C2	31:CA:853:G:C2	3.06	0.43
31:CA:1028(B):C:N4	31:CA:1032(B):G:O6	2.51	0.43
31:CA:1068:G:C6	31:CA:1069:C:C4	3.06	0.43
31:CA:1233:G:H2'	31:CA:1234:C:C6	2.52	0.43
31:CA:1287:A:H2	31:CA:1353:G:N3	2.15	0.43
31:CA:1404:C:O4'	31:CA:1499:A:N1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:212:GLN:CD	32:CE:212:GLN:C	2.86	0.43
32:CE:231:GLU:HB2	32:CE:232:PRO:HD2	2.00	0.43
35:CH:101:ILE:O	35:CH:120:THR:OG1	2.25	0.43
35:CH:102:ALA:HB1	35:CH:106:PRO:CG	2.40	0.43
36:CI:23:LYS:HB2	36:CI:23:LYS:NZ	2.32	0.43
38:CK:39:LEU:HD11	38:CK:111:ILE:HD11	1.99	0.43
38:CK:73:ASP:OD2	38:CK:75:ARG:NE	2.51	0.43
46:CS:22:THR:HA	46:CS:33:ILE:HG13	2.00	0.43
48:CU:36:ASN:HD22	48:CU:36:ASN:N	2.14	0.43
50:CW:13:LEU:HD12	50:CW:14:LYS:N	2.32	0.43
52:CB:86:C:H2'	52:CB:87:A:C4	2.53	0.43
31:DA:54:C:C4	31:DA:352:C:C5	3.05	0.43
31:DA:247:G:C6	31:DA:278:G:C2	3.06	0.43
31:DA:279:A:C5'	31:DA:281:G:H5'	2.47	0.43
31:DA:352:C:O2'	31:DA:354:G:OP1	2.29	0.43
31:DA:468:A:O2'	46:DS:81:ARG:HA	2.18	0.43
31:DA:505:G:C5	31:DA:535:A:C2	3.06	0.43
31:DA:942:G:C2	31:DA:1342:C:C2	3.06	0.43
31:DA:1156:G:H3'	31:DA:1157:A:C5'	2.48	0.43
31:DA:1178:G:C8	31:DA:1180:A:OP2	2.71	0.43
31:DA:1276:G:H2'	31:DA:1277:C:H6	1.82	0.43
32:DE:24:TRP:CD1	32:DE:24:TRP:O	2.71	0.43
32:DE:137:ARG:O	32:DE:137:ARG:HD3	2.17	0.43
33:DF:58:GLU:HB2	33:DF:65:ALA:HB2	1.99	0.43
37:DJ:137:LYS:HE2	37:DJ:137:LYS:HB3	1.83	0.43
37:DJ:149:ARG:HD3	41:DN:59:TYR:CE1	2.53	0.43
41:DN:70:LYS:HE3	41:DN:70:LYS:HB2	1.66	0.43
43:DP:3:ARG:HA	43:DP:8:GLU:O	2.18	0.43
43:DP:25:ILE:HG22	43:DP:26:GLY:N	2.32	0.43
43:DP:81:LEU:CD1	43:DP:88:ARG:HH11	2.30	0.43
50:DW:55:ILE:O	50:DW:58:LYS:N	2.46	0.43
50:DW:104:LEU:O	50:DW:105:SER:HB3	2.16	0.43
52:DB:37:G:N2	54:D1:20:U:C6	2.86	0.43
53:DC:48:U:H1'	53:DC:49:C:P	2.58	0.43
53:DD:15:G:N7	53:DD:16:C:H5	2.14	0.43
53:DD:49:C:H5''	53:DD:50:G:H5''	1.99	0.43
53:DD:71:G:H2'	53:DD:72:C:H5'	2.00	0.43
1:AA:152:G:H2'	1:AA:153:C:C6	2.53	0.43
1:AA:654(B):C:C2	1:AA:654(T):A:C2	3.06	0.43
1:AA:1014:U:H3	1:AA:1148:A:H61	1.66	0.43
1:AA:1178:C:O2	1:AA:1178:C:C2'	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1195:G:O2'	1:AA:1227:A:N1	2.51	0.43
1:AA:2115:G:N2	1:AA:2172:U:N3	2.65	0.43
1:AA:2286:A:C2'	28:A6:31:PRO:HG3	2.48	0.43
1:AA:2579:C:O5'	1:AA:2579:C:H6	2.01	0.43
1:AA:2590:A:C2	1:AA:2605:U:C2	3.06	0.43
1:AA:2623:G:N2	27:A5:22:HIS:CE1	2.86	0.43
1:AA:2811:G:OP1	4:AE:61:ARG:NE	2.42	0.43
3:AD:69:ARG:C	3:AD:71:ASP:N	2.76	0.43
4:AE:41:LYS:HB2	4:AE:42:ASP:OD2	2.19	0.43
4:AE:130:GLY:O	4:AE:132:HIS:N	2.51	0.43
4:AE:182:LEU:HD12	4:AE:183:LEU:H	1.82	0.43
5:AF:185:ASP:HA	5:AF:188:ARG:CD	2.43	0.43
7:AH:4:ILE:HG12	7:AH:6:ARG:HB2	2.00	0.43
7:AH:54:ARG:NH1	7:AH:65:HIS:ND1	2.61	0.43
7:AH:102:ALA:HB2	7:AH:116:GLU:HB2	2.00	0.43
8:AK:112:LYS:H	8:AK:112:LYS:HG2	1.52	0.43
9:AM:36:GLY:H	9:AM:49:GLY:CA	2.31	0.43
9:AM:38:HIS:CD2	9:AM:39:ARG:N	2.86	0.43
9:AM:131:GLN:CG	9:AM:132:ALA:N	2.81	0.43
11:AO:121:LYS:O	11:AO:123:LEU:N	2.50	0.43
17:A2:35:LEU:HD23	17:A2:57:VAL:HG13	2.00	0.43
19:AT:80:ILE:HG13	19:AT:80:ILE:O	2.18	0.43
21:AV:15:PRO:O	21:AV:19:ARG:HB2	2.18	0.43
30:A8:37:SER:O	30:A8:40:GLU:HB3	2.18	0.43
1:BA:140:A:C6	1:BA:141:A:N6	2.85	0.43
1:BA:603:A:H1'	1:BA:604:G:O4'	2.18	0.43
1:BA:660:G:H21	11:BO:12:ALA:CA	2.31	0.43
1:BA:1015:G:O6	1:BA:1147:C:N3	2.51	0.43
1:BA:1156:A:OP1	16:B1:55:ARG:NH1	2.52	0.43
1:BA:1275:A:C4	13:B0:16:HIS:CE1	3.05	0.43
1:BA:1708:C:H2'	1:BA:1709:U:H6	1.83	0.43
1:BA:1996:C:OP1	10:BN:31:LYS:HE3	2.17	0.43
1:BA:2048:G:C6	1:BA:2049:G:C5	3.06	0.43
1:BA:2164:C:C5	1:BA:2165:G:N7	2.86	0.43
1:BA:2239:G:H5'	3:BD:251:GLY:HA3	1.99	0.43
1:BA:2347:C:H2'	1:BA:2348:U:C6	2.53	0.43
1:BA:2422:A:O2'	1:BA:2423:U:O5'	2.34	0.43
1:BA:2531:A:H5'	7:BH:157:TYR:CE2	2.53	0.43
1:BA:2575:C:H5'	4:BE:143:ASN:O	2.17	0.43
2:BB:16:G:H2'	2:BB:17:C:C6	2.53	0.43
4:BE:14:ILE:HD11	4:BE:173:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:181:LEU:CD2	5:BF:186:ILE:HD11	2.45	0.43
8:BK:77:LEU:HD12	8:BK:78:THR:H	1.83	0.43
9:BM:1:MET:HE2	9:BM:1:MET:HB3	1.91	0.43
13:B0:48:VAL:O	13:B0:51:LEU:HB2	2.18	0.43
21:BV:56:VAL:HG12	21:BV:57:ILE:N	2.32	0.43
27:B5:3:LYS:CG	27:B5:4:HIS:N	2.80	0.43
31:CA:96:G:H2'	31:CA:97:U:C5'	2.45	0.43
31:CA:173:U:C6	31:CA:197:A:C2	3.06	0.43
31:CA:644:G:H2'	31:CA:645:C:O4'	2.18	0.43
31:CA:999:U:H2'	31:CA:1000:A:H8	1.83	0.43
31:CA:1106:G:C6	31:CA:1107:C:N4	2.86	0.43
31:CA:1256:A:N3	31:CA:1277:C:C4	2.86	0.43
31:CA:1296:C:OP1	43:CP:44:ARG:NH2	2.51	0.43
31:CA:1402:C:O2	31:CA:1500:A:N1	2.52	0.43
31:CA:1498:U:C2'	31:CA:1499:A:OP2	2.66	0.43
32:CE:52:GLU:HG2	32:CE:56:ARG:HH21	1.82	0.43
33:CF:29:TYR:OH	44:CQ:54:PRO:HD2	2.17	0.43
34:CG:188:LEU:HA	34:CG:189:PRO:HD2	1.82	0.43
47:CT:48:GLU:O	47:CT:49:GLU:C	2.62	0.43
47:CT:70:ARG:C	47:CT:71:PHE:CD2	2.96	0.43
31:DA:266:G:C1'	31:DA:267:C:OP2	2.66	0.43
31:DA:362:G:C4'	42:DO:33:ARG:HH21	2.23	0.43
31:DA:575:G:H4'	31:DA:576:G:OP1	2.18	0.43
31:DA:980:C:H3'	31:DA:981:U:C6	2.54	0.43
31:DA:983:A:H2	31:DA:984:C:C6	2.36	0.43
31:DA:1179:A:H2'	31:DA:1180:A:O4'	2.18	0.43
31:DA:1277:C:O2'	31:DA:1279:A:H1'	2.18	0.43
31:DA:1375:A:H4'	37:DJ:29:LYS:NZ	2.33	0.43
31:DA:1527:C:O5'	31:DA:1527:C:H6	2.01	0.43
32:DE:17:PHE:HD1	32:DE:17:PHE:HA	1.65	0.43
34:DG:176:LEU:HD12	34:DG:177:ASP:N	2.32	0.43
35:DH:103:GLY:O	35:DH:104:ALA:C	2.60	0.43
35:DH:110:LEU:HD21	35:DH:139:LEU:HD21	2.00	0.43
41:DN:93:GLN:NE2	41:DN:96:ARG:NH2	2.66	0.43
42:DO:60:LEU:CD2	42:DO:66:VAL:HG22	2.49	0.43
43:DP:3:ARG:HG2	43:DP:9:ILE:HG13	2.00	0.43
50:DW:87:LYS:HD2	50:DW:87:LYS:HA	1.66	0.43
52:DB:59:U:O2'	52:DB:70:G:C4'	2.63	0.43
53:DD:8:U:H1'	53:DD:49:C:H1'	1.98	0.43
1:AA:50:U:H3'	1:AA:51:G:C5'	2.49	0.43
1:AA:54:G:O2'	29:A7:35:ARG:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:571:A:C8	1:AA:2030:A:N6	2.87	0.43
1:AA:765:G:C6	1:AA:766:C:C4	3.06	0.43
1:AA:943:U:OP2	11:AO:36:LYS:HG2	2.19	0.43
1:AA:943:U:C4	1:AA:944:G:N7	2.86	0.43
1:AA:1081:U:H2'	1:AA:1082:U:O4'	2.18	0.43
1:AA:2110:G:C6	1:AA:2120:G:N7	2.86	0.43
1:AA:2262:U:OP2	22:A3:19:LYS:HE3	2.18	0.43
1:AA:2415:G:C5	1:AA:2416:C:C5	3.06	0.43
1:AA:2508:G:H2'	1:AA:2509:G:O4'	2.19	0.43
2:AB:102:G:N3	21:AV:73:GLN:NE2	2.60	0.43
3:AD:155:LEU:N	3:AD:155:LEU:CD1	2.81	0.43
6:AG:77:ILE:O	6:AG:78:SER:O	2.36	0.43
6:AG:114:ILE:HB	6:AG:117:PHE:HB2	2.00	0.43
21:AV:102:LEU:N	21:AV:122:ARG:O	2.44	0.43
21:AV:139:VAL:HG13	21:AV:155:LEU:HD21	2.00	0.43
23:AZ:45:ASN:O	23:AZ:47:GLN:HG2	2.18	0.43
1:BA:496:G:H2'	1:BA:497:A:H5'	2.00	0.43
1:BA:528:A:C2	1:BA:2043:C:C5'	2.95	0.43
1:BA:783:A:H8	1:BA:784:A:H4'	1.83	0.43
1:BA:943:U:P	11:BO:36:LYS:HG3	2.57	0.43
1:BA:1012:U:C2	1:BA:1143:A:N1	2.84	0.43
1:BA:1056:G:H1'	1:BA:1103:A:N6	2.33	0.43
1:BA:1171:G:C8	1:BA:1173:G:N3	2.86	0.43
1:BA:1173:G:O2'	1:BA:1174:A:H2	2.01	0.43
1:BA:1396:U:H2'	1:BA:1396:U:O2	2.19	0.43
1:BA:1488:G:C6	1:BA:1489:U:N3	2.87	0.43
1:BA:2054:A:H5''	1:BA:2055:C:O5'	2.18	0.43
1:BA:2056:G:H2'	1:BA:2056:G:N3	2.32	0.43
1:BA:2140:C:N3	1:BA:2151:G:O6	2.51	0.43
1:BA:2160:G:H8	1:BA:2160:G:O5'	2.02	0.43
1:BA:2383:G:OP2	30:B8:37:SER:HB2	2.17	0.43
1:BA:2494:G:H2'	1:BA:2495:G:H8	1.83	0.43
1:BA:2859:G:O2'	1:BA:2860:A:P	2.76	0.43
3:BD:64:ILE:O	3:BD:64:ILE:HG13	2.16	0.43
3:BD:72:LYS:HE2	3:BD:101:GLU:OE2	2.17	0.43
6:BG:146:TYR:O	6:BG:149:VAL:HG22	2.18	0.43
6:BG:150:ASP:OD2	6:BG:151:ALA:N	2.52	0.43
8:BK:19:VAL:HG22	8:BK:20:ASP:N	2.34	0.43
10:BN:87:ILE:HG23	10:BN:91:LEU:HA	2.01	0.43
12:BP:54:MET:HE1	12:BP:64:ILE:CG2	2.48	0.43
12:BP:79:LEU:O	12:BP:81:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BP:138:ASP:OD2	12:BP:138:ASP:O	2.36	0.43
13:B0:101:ALA:HB1	27:B5:41:PRO:HG3	2.00	0.43
17:B2:69:LYS:NZ	17:B2:85:LYS:HD2	2.32	0.43
17:B2:76:LYS:HG2	17:B2:80:GLN:CB	2.46	0.43
18:BS:18:ARG:HG3	18:BS:76:VAL:HG13	2.00	0.43
23:BZ:30:VAL:HG11	53:DD:77:A:H5''	1.99	0.43
23:BZ:67:ILE:N	23:BZ:68:PRO:CD	2.80	0.43
23:BZ:86:SER:O	23:BZ:87:PRO:C	2.62	0.43
26:B4:58:ARG:C	26:B4:61:ARG:H	2.27	0.43
31:CA:148:G:N2	31:CA:175:C:C2	2.86	0.43
31:CA:177:C:OP2	50:CW:65:LYS:HD3	2.18	0.43
31:CA:452:A:H2'	31:CA:453:A:C8	2.53	0.43
31:CA:501:C:OP2	42:CO:121:LYS:NZ	2.35	0.43
31:CA:958:A:C5	31:CA:959:A:C6	3.06	0.43
31:CA:1028(A):C:N3	31:CA:1028(B):C:N4	2.67	0.43
31:CA:1036:G:H2'	31:CA:1037:C:C2	2.53	0.43
31:CA:1122:U:C4	31:CA:1123:A:N7	2.87	0.43
31:CA:1160:G:H22	31:CA:1177:G:H21	1.66	0.43
32:CE:91:PRO:HG3	32:CE:155:LEU:HB2	2.00	0.43
43:CP:5:ALA:HA	43:CP:61:GLU:HG3	2.01	0.43
46:CS:65:GLN:HA	46:CS:66:PRO:HD2	1.84	0.43
46:CS:72:ARG:CD	46:CS:72:ARG:C	2.91	0.43
50:CW:100:ILE:CD1	50:CW:101:GLY:H	2.32	0.43
52:CB:59:U:H4'	52:CB:60:A:H5''	1.98	0.43
53:CD:11:A:N6	53:CD:25:U:H3	2.16	0.43
31:DA:197:A:H3'	31:DA:197:A:OP2	2.18	0.43
31:DA:451:A:C2	31:DA:480:U:C4	3.06	0.43
31:DA:502:G:H2'	31:DA:503:C:O4'	2.18	0.43
31:DA:530:G:H1'	52:DB:36:A:H1'	2.00	0.43
31:DA:627:G:H2'	31:DA:628:G:H8	1.83	0.43
31:DA:673:G:H5''	36:DI:87:ARG:NH1	2.33	0.43
31:DA:775:G:C2'	31:DA:776:G:H5'	2.48	0.43
31:DA:1305:G:H5''	51:DX:4:GLY:CA	2.49	0.43
31:DA:1453:G:O4'	31:DA:1453:G:N3	2.51	0.43
32:DE:92:TYR:CD2	32:DE:92:TYR:O	2.70	0.43
32:DE:130:ARG:O	32:DE:135:GLN:HG3	2.18	0.43
32:DE:137:ARG:NH1	32:DE:140:HIS:HB2	2.10	0.43
39:DL:3:GLN:HG2	39:DL:20:ARG:HG3	1.99	0.43
50:DW:27:LYS:HE2	50:DW:27:LYS:HA	2.00	0.43
52:DB:26:C:C4	52:DB:27:G:C2	3.06	0.43
52:DB:56:G:H2'	52:DB:57:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DC:20:G:C4	53:DC:58:A:C2	3.06	0.43
53:DC:40:C:H2'	53:DC:41:C:C6	2.54	0.43
1:AA:92:G:H2'	1:AA:93:C:C6	2.53	0.43
1:AA:270(R):G:H2'	1:AA:270(S):G:H8	1.80	0.43
1:AA:480:A:H2'	1:AA:481:G:OP1	2.18	0.43
1:AA:856:C:H3'	1:AA:856:C:C6	2.53	0.43
1:AA:991:C:C5	1:AA:1185:C:N4	2.87	0.43
1:AA:1065:U:C5	1:AA:1066:U:C6	2.97	0.43
1:AA:1196:C:O4'	1:AA:1227:A:C2	2.71	0.43
1:AA:1231:G:H2'	1:AA:1232:G:C8	2.53	0.43
1:AA:1407:C:O2'	1:AA:1408:C:H5'	2.18	0.43
1:AA:1448:G:H1'	1:AA:1528:A:H62	1.82	0.43
1:AA:1464:C:O2	1:AA:1464:C:H2'	2.17	0.43
1:AA:1659:U:C4	1:AA:1660:C:C5	3.07	0.43
1:AA:2283:C:H2'	1:AA:2284:C:O4'	2.19	0.43
1:AA:2394:C:C2	53:CD:77:A:O2'	2.67	0.43
1:AA:2400:G:H2'	1:AA:2401:U:C6	2.53	0.43
1:AA:2698:U:H2'	1:AA:2699:C:H6	1.80	0.43
2:AB:80:U:O2'	2:AB:81:G:H5''	2.18	0.43
4:AE:4:ILE:HD13	4:AE:28:ALA:CB	2.43	0.43
4:AE:85:ASN:HA	4:AE:86:PRO:HD2	1.88	0.43
7:AH:4:ILE:HD11	7:AH:7:LEU:CD1	2.39	0.43
11:AO:17:LYS:HE2	11:AO:27:HIS:NE2	2.34	0.43
15:AR:12:SER:HG	15:AR:57:PHE:HD1	1.61	0.43
16:A1:28:ARG:O	16:A1:35:ALA:HA	2.18	0.43
16:A1:65:ILE:C	16:A1:67:ALA:N	2.76	0.43
16:A1:76:TYR:CD2	16:A1:76:TYR:C	2.96	0.43
21:AV:57:ILE:N	21:AV:57:ILE:HD12	2.34	0.43
21:AV:112:ARG:C	21:AV:114:GLY:HA2	2.42	0.43
24:AW:65:ASN:HD22	24:AW:69:ARG:HE	1.67	0.43
26:A4:16:CYS:SG	26:A4:17:GLY:N	2.91	0.43
26:A4:60:GLN:O	26:A4:63:TYR:HB3	2.18	0.43
1:BA:125:G:H4'	1:BA:126:A:OP2	2.19	0.43
1:BA:488:G:H1'	1:BA:492:A:N6	2.33	0.43
1:BA:764:A:H5'	3:BD:210:GLY:HA2	2.00	0.43
1:BA:844:C:C2'	1:BA:845:G:O5'	2.66	0.43
1:BA:850:C:O2'	25:BX:46:ASN:ND2	2.47	0.43
1:BA:854:G:C4	1:BA:855:G:C8	3.05	0.43
1:BA:934:G:H2'	1:BA:935:C:C6	2.53	0.43
1:BA:962:G:O2'	1:BA:963:U:H5'	2.18	0.43
1:BA:1000:A:N1	1:BA:1001:A:C2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1300:U:H4'	1:BA:1301:A:OP2	2.17	0.43
1:BA:1484:G:O2'	1:BA:1485:G:H5'	2.17	0.43
1:BA:1993:U:H4'	4:BE:128:SER:HB3	1.99	0.43
1:BA:2072:G:H2'	1:BA:2073:C:O4'	2.18	0.43
1:BA:2152:G:H5''	1:BA:2153:G:OP2	2.19	0.43
1:BA:2390:U:C2'	1:BA:2391:G:H5'	2.48	0.43
1:BA:2438:U:H5''	1:BA:2600:A:OP1	2.18	0.43
1:BA:2472:G:H1	1:BA:2477:C:P	2.41	0.43
1:BA:2528:U:H5''	1:BA:2529:G:N2	2.34	0.43
1:BA:2698:U:H2'	1:BA:2699:C:C6	2.54	0.43
1:BA:2731:G:C6	1:BA:2732:G:O6	2.71	0.43
1:BA:2847:U:OP1	15:BR:98:LYS:CD	2.65	0.43
2:BB:10:C:C2'	2:BB:11:C:H5'	2.49	0.43
3:BD:9:TYR:HD2	3:BD:10:THR:HG23	1.81	0.43
4:BE:52:LEU:O	4:BE:52:LEU:CD1	2.61	0.43
5:BF:88:VAL:O	5:BF:89:VAL:O	2.37	0.43
6:BG:101:ILE:HB	6:BG:105:LYS:NZ	2.34	0.43
7:BH:103:LEU:HD11	7:BH:105:LEU:HD12	2.00	0.43
8:BK:77:LEU:HG	8:BK:78:THR:OG1	2.18	0.43
8:BK:84:GLY:O	8:BK:85:GLU:HB3	2.17	0.43
10:BN:49:ARG:HH12	31:DA:1423:G:P	2.41	0.43
11:BO:109:GLY:C	11:BO:110:TYR:CD2	2.96	0.43
11:BO:128:HIS:O	11:BO:147:LEU:HB3	2.18	0.43
16:B1:69:CYS:O	16:B1:74:LEU:HD12	2.17	0.43
18:BS:40:ASN:HD22	18:BS:40:ASN:C	2.23	0.43
20:BU:39:VAL:O	20:BU:40:GLU:CD	2.62	0.43
20:BU:101:LYS:HB3	20:BU:101:LYS:HE2	1.56	0.43
21:BV:116:VAL:O	21:BV:117:LEU:HD22	2.18	0.43
24:BW:14:ARG:C	24:BW:15:LYS:HG2	2.44	0.43
25:BX:23:LEU:HG	25:BX:50:VAL:HG11	1.99	0.43
26:B4:48:ARG:HH12	26:B4:51:ASP:HB3	1.80	0.43
31:CA:323:U:H2'	31:CA:324:G:O4'	2.19	0.43
31:CA:1218:C:P	44:CQ:9:LYS:HZ3	2.40	0.43
31:CA:1349:A:H2'	31:CA:1350:A:C8	2.53	0.43
31:CA:1455:G:C5'	50:CW:32:ALA:HB2	2.49	0.43
32:CE:48:MET:O	32:CE:49:GLU:C	2.61	0.43
34:CG:13:ARG:O	34:CG:14:ARG:C	2.61	0.43
36:CI:44:GLY:O	36:CI:59:TYR:HA	2.19	0.43
36:CI:95:GLU:HA	36:CI:96:PRO:HD3	1.85	0.43
37:CJ:51:GLN:O	37:CJ:54:THR:O	2.36	0.43
40:CM:48:THR:HG23	40:CM:62:HIS:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CN:21:ILE:HD13	41:CN:94:ALA:HB1	1.99	0.43
43:CP:104:ARG:C	43:CP:105:THR:CG2	2.91	0.43
46:CS:4:ILE:HA	46:CS:20:VAL:O	2.18	0.43
49:CV:30:LEU:HD13	49:CV:30:LEU:N	2.33	0.43
50:CW:25:ARG:HG3	50:CW:25:ARG:HH11	1.82	0.43
53:CD:41:C:O2'	53:CD:42:C:H5'	2.18	0.43
31:DA:123:C:OP1	31:DA:312:C:H5'	2.19	0.43
31:DA:197:A:C8	31:DA:198:G:C1'	3.01	0.43
31:DA:444:C:H2'	31:DA:445:G:O4'	2.18	0.43
31:DA:503:C:O2'	31:DA:504:C:H5'	2.19	0.43
31:DA:609:A:H5''	46:DS:18:ARG:NH2	2.32	0.43
31:DA:1230:C:H2'	31:DA:1231:G:H8	1.83	0.43
31:DA:1277:C:H1'	31:DA:1282:C:O2	2.18	0.43
31:DA:1288:A:C2	31:DA:1289:A:C4	3.06	0.43
31:DA:1328:C:O2'	31:DA:1329:A:H5'	2.17	0.43
31:DA:1491:G:O3'	42:DO:46:LYS:HB2	2.18	0.43
32:DE:42:ILE:HD13	32:DE:203:GLY:CA	2.48	0.43
32:DE:213:LEU:O	32:DE:213:LEU:HD23	2.18	0.43
35:DH:147:ASP:HA	35:DH:150:ARG:CB	2.49	0.43
36:DI:22:GLU:HA	36:DI:22:GLU:OE2	2.18	0.43
36:DI:70:ASP:OD1	36:DI:71:ARG:N	2.51	0.43
37:DJ:73:MET:HE2	37:DJ:90:GLU:CG	2.49	0.43
38:DK:94:TYR:CE1	38:DK:132:GLU:HB2	2.53	0.43
39:DL:4:TYR:CZ	39:DL:88:TYR:CG	3.06	0.43
43:DP:15:VAL:O	43:DP:19:LEU:HD23	2.17	0.43
43:DP:54:VAL:HG12	43:DP:58:GLU:OE1	2.18	0.43
44:DQ:42:ILE:O	44:DQ:45:ARG:HB3	2.18	0.43
46:DS:57:ARG:HA	46:DS:60:LEU:HD12	2.00	0.43
51:DX:25:LYS:CE	51:DX:26:LYS:HG3	2.48	0.43
52:DB:76:U:C4	52:DB:77:C:C4	3.07	0.43
53:DC:24:C:C2	53:DC:25:U:C5	3.06	0.43
1:AA:6:A:O2'	1:AA:7:G:H5'	2.18	0.43
1:AA:699:A:H4'	1:AA:1634:A:N7	2.32	0.43
1:AA:783:A:O2'	1:AA:785:G:OP1	2.29	0.43
1:AA:885:C:H2'	1:AA:890:A:N6	2.32	0.43
1:AA:1271:G:O3'	1:AA:1272:A:H4'	2.16	0.43
1:AA:1392:A:C6	1:AA:1393:A:C6	3.06	0.43
1:AA:1478:G:H1'	1:AA:1557:C:O2'	2.19	0.43
1:AA:1680:U:O2'	1:AA:1763:G:N7	2.40	0.43
1:AA:1992:G:C2'	1:AA:1993:U:OP2	2.66	0.43
1:AA:2112:G:H5'	53:CD:20:G:H22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2147:G:H3'	1:AA:2147:G:H8	1.82	0.43
1:AA:2294:C:C5	1:AA:2295:C:H5	2.37	0.43
1:AA:2419:U:O4	30:A8:30:ARG:CZ	2.67	0.43
1:AA:2619:C:H2'	1:AA:2620:C:H6	1.83	0.43
5:AF:124:LEU:CD2	5:AF:126:VAL:HG12	2.49	0.43
6:AG:67:LYS:NZ	26:A4:6:HIS:NE2	2.62	0.43
9:AM:28:THR:HG22	9:AM:29:LYS:N	2.32	0.43
11:AO:96:THR:C	11:AO:98:GLU:N	2.77	0.43
14:AQ:67:ARG:NH1	14:AQ:67:ARG:CB	2.81	0.43
14:AQ:85:VAL:CG2	14:AQ:112:PHE:HZ	2.32	0.43
16:A1:90:VAL:HG22	17:A2:39:LEU:HB3	2.00	0.43
17:A2:35:LEU:HD23	17:A2:35:LEU:O	2.18	0.43
21:AV:26:GLY:CA	21:AV:86:VAL:O	2.67	0.43
21:AV:44:PHE:C	21:AV:44:PHE:CD1	2.96	0.43
24:AW:46:GLN:O	24:AW:49:LYS:HG3	2.19	0.43
30:A8:8:LYS:HD2	30:A8:8:LYS:HA	1.79	0.43
30:A8:14:VAL:HG21	30:A8:56:GLU:HG2	1.99	0.43
30:A8:58:ILE:HA	30:A8:61:LEU:CD1	2.49	0.43
1:BA:270(S):G:O2'	1:BA:270(T):G:H5'	2.19	0.43
1:BA:300:A:H2'	1:BA:334:C:H1'	2.01	0.43
1:BA:573:G:O6	1:BA:2029:G:H2'	2.19	0.43
1:BA:626:U:O2	11:BO:105:LEU:HB3	2.18	0.43
1:BA:850:C:C2'	1:BA:851:U:H5'	2.48	0.43
1:BA:1180:C:H2'	1:BA:1181:C:C6	2.53	0.43
1:BA:1366:A:H2'	1:BA:1367:A:O4'	2.17	0.43
1:BA:1726:G:C6	1:BA:1727:U:C4	3.06	0.43
1:BA:1790:C:O2'	3:BD:209:ALA:HB2	2.19	0.43
1:BA:1955:U:O3'	1:BA:1956:U:H6	2.01	0.43
1:BA:2036:C:H2'	1:BA:2037:G:O5'	2.18	0.43
1:BA:2089:U:O2	1:BA:2089:U:H2'	2.17	0.43
1:BA:2173:A:N3	1:BA:2173:A:C2'	2.80	0.43
1:BA:2339:G:H2'	1:BA:2340:G:C8	2.53	0.43
1:BA:2820:A:O2'	1:BA:2821:A:OP1	2.36	0.43
1:BA:2850:A:C2	1:BA:2851:A:C4	3.06	0.43
4:BE:52:LEU:CG	4:BE:52:LEU:O	2.67	0.43
4:BE:153:GLY:O	4:BE:154:LYS:C	2.61	0.43
4:BE:202:LYS:N	4:BE:202:LYS:CD	2.80	0.43
7:BH:26:VAL:HG11	7:BH:33:LEU:HB2	2.01	0.43
9:BM:28:THR:CA	9:BM:106:MET:HE1	2.47	0.43
10:BN:17:ARG:HD3	10:BN:17:ARG:HA	1.73	0.43
11:BO:46:LYS:HB3	11:BO:46:LYS:HE2	1.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BR:127:ALA:O	15:BR:131:ALA:HB3	2.18	0.43
16:B1:92:ARG:HH22	17:B2:10:LYS:HA	1.83	0.43
18:BS:47:VAL:O	18:BS:50:VAL:HG13	2.19	0.43
19:BT:53:LYS:NZ	19:BT:55:ASN:HD21	2.15	0.43
20:BU:47:LYS:HG2	20:BU:60:PHE:HD1	1.80	0.43
21:BV:24:LEU:HA	21:BV:25:PRO:HD3	1.92	0.43
30:B8:25:MET:HE3	30:B8:25:MET:HB3	1.79	0.43
31:CA:102:G:C4	31:CA:103:C:C5	3.07	0.43
31:CA:232:G:H1'	31:CA:262:A:N1	2.32	0.43
31:CA:383:A:C8	31:CA:383:A:O5'	2.69	0.43
31:CA:464:G:C6	31:CA:466:C:H5'	2.53	0.43
31:CA:515:G:N2	31:CA:537:G:C4	2.86	0.43
31:CA:779:C:H2'	31:CA:780:A:O4'	2.18	0.43
31:CA:843:U:H5'	31:CA:848:C:C6	2.53	0.43
31:CA:851:G:O2'	31:CA:852:G:H5'	2.18	0.43
31:CA:872:A:C2	31:CA:874:G:C5	3.06	0.43
31:CA:1126:U:H6	31:CA:1126:U:H2'	1.62	0.43
31:CA:1273:G:C6	31:CA:1274:G:C4	3.06	0.43
31:CA:1309:G:C6	31:CA:1329:A:C2	3.06	0.43
31:CA:1316:G:N2	31:CA:1318:A:H3'	2.33	0.43
31:CA:1501:C:C4	31:CA:1504:G:C6	3.07	0.43
33:CF:32:LEU:HD13	33:CF:59:ARG:NH1	2.34	0.43
36:CI:23:LYS:HD3	36:CI:61:LEU:HD21	1.99	0.43
38:CK:11:THR:HG23	38:CK:14:ARG:NH1	2.30	0.43
42:CO:39:THR:HB	42:CO:49:LEU:HB3	2.01	0.43
42:CO:101:VAL:HG12	42:CO:102:TYR:CD1	2.53	0.43
46:CS:43:LYS:HG2	46:CS:48:TRP:CE3	2.53	0.43
31:DA:157:G:C2	31:DA:165:C:C2	3.07	0.43
31:DA:963:G:O2'	40:DM:54:PHE:CZ	2.64	0.43
33:DF:53:ALA:HB2	33:DF:115:LEU:HG	2.01	0.43
34:DG:90:GLY:N	34:DG:204:ILE:HD11	2.34	0.43
35:DH:79:GLU:HA	35:DH:91:LEU:O	2.18	0.43
37:DJ:22:LEU:HD12	37:DJ:97:GLN:HE22	1.84	0.43
37:DJ:113:GLU:O	37:DJ:119:ARG:HD3	2.18	0.43
43:DP:79:LYS:O	43:DP:82:MET:SD	2.77	0.43
52:DB:46:G:H2'	52:DB:47:C:C6	2.53	0.43
1:AA:270(H):C:O2	1:AA:270(H):C:H2'	2.17	0.43
1:AA:273(A):G:C2	1:AA:364:C:N3	2.87	0.43
1:AA:388:G:C6	1:AA:390:A:C2	3.07	0.43
1:AA:405:U:H4'	1:AA:406:G:OP2	2.18	0.43
1:AA:693:C:O2'	1:AA:694:U:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:826:U:H2'	1:AA:828:U:O4'	2.18	0.43
1:AA:1049:C:C2'	1:AA:1050:A:C5'	2.94	0.43
1:AA:1063:G:C5	1:AA:1064:C:C5	3.07	0.43
1:AA:1348:G:C2'	1:AA:1349:A:H5''	2.47	0.43
1:AA:1510:A:H2'	1:AA:1511:A:OP2	2.19	0.43
1:AA:1680:U:O2'	1:AA:1681:G:H5'	2.19	0.43
1:AA:1799:G:O6	3:AD:179:SER:HB3	2.19	0.43
1:AA:2067:G:O2'	1:AA:2069:G:H5''	2.19	0.43
1:AA:2534:A:H2'	1:AA:2535:G:O5'	2.19	0.43
1:AA:2695:C:H2'	1:AA:2696:U:H6	1.82	0.43
1:AA:2810:A:O3'	4:AE:61:ARG:CG	2.65	0.43
1:AA:2883:A:H5'	1:AA:2884:U:H5'	2.00	0.43
5:AF:68:LYS:C	5:AF:70:THR:H	2.27	0.43
6:AG:115:ARG:HB3	6:AG:115:ARG:NH1	2.33	0.43
8:AK:120:ILE:HD11	8:AK:126:TYR:CE1	2.53	0.43
8:AK:128:LEU:O	8:AK:138:ILE:HG22	2.19	0.43
9:AM:15:LEU:HD13	9:AM:15:LEU:C	2.43	0.43
9:AM:103:VAL:O	9:AM:104:LYS:C	2.61	0.43
11:AO:65:ARG:NH2	30:A8:46:ARG:NH1	2.66	0.43
11:AO:84:ASN:HD21	11:AO:115:LEU:HB2	1.81	0.43
14:AQ:90:GLY:HA3	14:AQ:91:PRO:HD2	1.86	0.43
15:AR:90:GLN:NE2	15:AR:116:ALA:HA	2.34	0.43
16:A1:79:PHE:O	16:A1:79:PHE:CD2	2.67	0.43
22:A3:36:ILE:CD1	22:A3:39:ARG:HG2	2.48	0.43
27:A5:56:LYS:HE3	27:A5:56:LYS:HB3	1.83	0.43
1:BA:11:G:C2'	1:BA:12:U:H5'	2.49	0.43
1:BA:103:A:H8	1:BA:103:A:O5'	2.01	0.43
1:BA:848:G:C4	1:BA:933:A:H8	2.36	0.43
1:BA:857:C:H2'	1:BA:858:U:C6	2.53	0.43
1:BA:953:A:C2	1:BA:954:G:C8	3.07	0.43
1:BA:1047:G:H21	1:BA:1111:A:N6	2.17	0.43
1:BA:1123:C:H2'	1:BA:1124:C:H6	1.84	0.43
1:BA:1210:A:H5''	1:BA:1211:U:H3'	2.01	0.43
1:BA:1218:C:H42	1:BA:1231:G:H1	1.66	0.43
1:BA:1298:C:H1'	1:BA:1302:A:N3	2.34	0.43
1:BA:1588:C:N4	1:BA:1589:C:N4	2.66	0.43
1:BA:1599:C:C5'	19:BT:35:THR:HG22	2.48	0.43
1:BA:1681:G:O3'	1:BA:1762:A:O2'	2.37	0.43
1:BA:1688:U:C2	1:BA:1700:A:H5'	2.53	0.43
1:BA:2396:G:H4'	23:BZ:30:VAL:H	1.83	0.43
1:BA:2443:C:O2'	1:BA:2444:G:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2723:C:OP2	4:BE:109:LYS:NZ	2.51	0.43
1:BA:2814:C:C5	1:BA:2815:C:C5	3.07	0.43
1:BA:2844:G:N2	1:BA:2874:C:C2	2.87	0.43
3:BD:34:VAL:HG13	3:BD:34:VAL:O	2.19	0.43
3:BD:65:ILE:HD11	3:BD:67:PHE:CD2	2.52	0.43
4:BE:14:ILE:HD11	4:BE:173:VAL:HG11	1.99	0.43
6:BG:104:GLU:HG2	26:B4:23:GLU:OE2	2.18	0.43
6:BG:172:LEU:O	6:BG:176:LEU:HG	2.18	0.43
7:BH:86:GLU:OE2	7:BH:165:ALA:HB2	2.18	0.43
8:BK:51:ILE:HG22	8:BK:52:ARG:N	2.32	0.43
8:BK:142:VAL:O	8:BK:142:VAL:HG22	2.19	0.43
11:BO:2:LYS:HE3	11:BO:4:SER:HB2	2.00	0.43
12:BP:47:ILE:HG12	12:BP:68:ILE:HD11	2.01	0.43
16:B1:36:ARG:O	16:B1:37:GLU:C	2.62	0.43
17:B2:69:LYS:CE	17:B2:85:LYS:HD2	2.49	0.43
17:B2:70:ILE:HB	17:B2:86:GLY:O	2.18	0.43
31:CA:73:G:O2'	31:CA:74:C:H5'	2.18	0.43
31:CA:101:A:C4	31:CA:102:G:C8	3.07	0.43
31:CA:160:A:C6	31:CA:161:A:C2	3.06	0.43
31:CA:693:G:C5	54:C1:13:U:H1'	2.53	0.43
31:CA:1092:A:N6	31:CA:1093:A:N6	2.67	0.43
31:CA:1279:A:H5''	31:CA:1280:A:P	2.58	0.43
31:CA:1292:U:C2	31:CA:1293:G:C8	3.07	0.43
33:CF:8:ILE:HG22	33:CF:9:GLY:N	2.33	0.43
36:CI:73:ASN:O	36:CI:76:ALA:HB3	2.18	0.43
54:C1:20:U:H2'	54:C1:21:U:H6	1.83	0.43
31:DA:187:C:H2'	31:DA:188:U:O4'	2.19	0.43
31:DA:485:G:H2'	31:DA:486:U:OP2	2.18	0.43
31:DA:516:U:C4	31:DA:517:G:C6	3.06	0.43
31:DA:561:U:HO2'	31:DA:562:C:P	2.42	0.43
31:DA:619:U:O2	34:DG:135:LEU:CD2	2.64	0.43
31:DA:649:G:O2'	31:DA:650:G:H5'	2.17	0.43
31:DA:953:G:H2'	31:DA:954:G:O4'	2.19	0.43
31:DA:1141:C:H2'	31:DA:1142:G:C8	2.53	0.43
31:DA:1191:A:P	33:DF:3:ASN:ND2	2.82	0.43
31:DA:1215:G:C2	31:DA:1216:G:C8	3.06	0.43
31:DA:1261:A:C6	31:DA:1262:C:C2	3.07	0.43
31:DA:1348:U:C4	31:DA:1374:A:H2	2.36	0.43
32:DE:231:GLU:CB	32:DE:232:PRO:CD	2.87	0.43
33:DF:29:TYR:CD1	44:DQ:36:PHE:CE1	3.07	0.43
34:DG:20:TYR:CD2	34:DG:27:TYR:CD1	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DG:22:LYS:O	34:DG:24:GLU:OE2	2.36	0.43
34:DG:171:GLY:HA2	34:DG:172:PRO:HD3	1.80	0.43
42:DO:126:LYS:HE3	42:DO:126:LYS:HB2	1.82	0.43
43:DP:81:LEU:HD13	43:DP:88:ARG:HG2	2.00	0.43
51:DX:13:ILE:HG12	51:DX:22:ARG:CZ	2.48	0.43
1:AA:165:U:O2'	1:AA:171:G:O5'	2.29	0.43
1:AA:602:G:C2'	1:AA:655:A:N6	2.82	0.43
1:AA:654(G):C:N3	1:AA:654(N):G:C6	2.84	0.43
1:AA:776:G:H4'	1:AA:777:A:O5'	2.19	0.43
1:AA:822:U:O4	1:AA:944:G:H1'	2.19	0.43
1:AA:889:C:H5''	1:AA:890:A:P	2.57	0.43
1:AA:1141:U:H5	9:AM:64:GLY:HA3	1.82	0.43
1:AA:1264:G:C5'	27:A5:11:THR:HG21	2.39	0.43
1:AA:1374:G:H2'	1:AA:1375:C:H6	1.84	0.43
1:AA:1595:G:C2'	1:AA:1596:A:H5'	2.49	0.43
1:AA:1638:C:H2'	1:AA:1639:U:O4'	2.18	0.43
1:AA:2039:C:H2'	1:AA:2040:C:H6	1.84	0.43
1:AA:2094:G:H2'	1:AA:2095:C:H5'	2.01	0.43
1:AA:2311:A:C6	6:AG:80:PHE:CD1	3.06	0.43
2:AB:16:G:C2	2:AB:17:C:C5	3.07	0.43
3:AD:27:THR:HG22	3:AD:28:GLU:H	1.83	0.43
4:AE:74:PRO:HD2	4:AE:77:ILE:HG21	2.01	0.43
5:AF:198:ALA:HA	5:AF:201:VAL:CG1	2.42	0.43
8:AK:47:LEU:HA	8:AK:50:ARG:HB2	2.00	0.43
11:AO:144:GLU:O	11:AO:144:GLU:OE1	2.36	0.43
15:AR:6:LEU:HA	15:AR:9:LEU:HB2	2.00	0.43
16:A1:44:ASN:HD21	17:A2:75:PHE:N	2.16	0.43
20:AU:2:ARG:C	20:AU:3:VAL:HG23	2.43	0.43
20:AU:78:ALA:CB	20:AU:81:LYS:HZ2	2.28	0.43
22:A3:75:LEU:HD23	22:A3:75:LEU:HA	1.68	0.43
26:A4:47:GLN:HE21	26:A4:47:GLN:HB3	1.55	0.43
26:A4:57:GLU:C	26:A4:60:GLN:HB2	2.44	0.43
28:A6:11:LEU:HD12	28:A6:11:LEU:HA	1.82	0.43
1:BA:26:G:H1'	1:BA:514:A:N6	2.34	0.43
1:BA:95:G:H4'	24:BW:46:GLN:HB3	2.01	0.43
1:BA:862:G:H2'	1:BA:863:A:O4'	2.19	0.43
1:BA:890:A:H2'	1:BA:892:G:C8	2.54	0.43
1:BA:999:U:O2'	1:BA:1000:A:H5'	2.19	0.43
1:BA:1389:G:H2'	1:BA:1390:U:O4'	2.18	0.43
1:BA:1466:G:H5'	1:BA:1467:C:OP1	2.18	0.43
1:BA:1791:A:H8	1:BA:1791:A:OP2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2063:C:C2'	1:BA:2064:C:H5'	2.48	0.43
1:BA:2141:G:C6	1:BA:2151:G:C6	3.07	0.43
1:BA:2211:G:N3	1:BA:2211:G:H2'	2.34	0.43
1:BA:2282:G:C4	1:BA:2425:A:N6	2.86	0.43
1:BA:2283:C:C5	1:BA:2389:G:C4	3.07	0.43
1:BA:2695:C:H2'	1:BA:2696:U:C6	2.53	0.43
1:BA:2786:U:H4'	4:BE:64:LYS:HA	2.00	0.43
2:BB:44:G:OP1	6:BG:98:ARG:NH2	2.51	0.43
3:BD:155:LEU:HA	3:BD:155:LEU:HD12	1.79	0.43
4:BE:116:VAL:HG13	4:BE:122:PHE:HB2	2.01	0.43
6:BG:47:LYS:HE2	6:BG:80:PHE:O	2.18	0.43
9:BM:4:TYR:CD2	16:B1:100:VAL:HG11	2.54	0.43
11:BO:30:THR:HG21	11:BO:35:HIS:N	2.24	0.43
12:BP:43:THR:HA	12:BP:94:VAL:HG12	1.99	0.43
15:BR:118:ARG:O	15:BR:119:LYS:C	2.61	0.43
16:B1:25:TRP:CD1	16:B1:26:GLY:N	2.87	0.43
18:BS:13:SER:HA	18:BS:99:ARG:HB2	2.00	0.43
20:BU:24:VAL:HG12	20:BU:25:GLY:N	2.33	0.43
24:BW:32:LEU:HD12	24:BW:32:LEU:O	2.18	0.43
31:CA:122:G:C2'	31:CA:123:C:H5'	2.49	0.43
31:CA:256:U:H2'	31:CA:257:G:H8	1.83	0.43
31:CA:636:U:C5'	47:CT:2:PRO:HG3	2.47	0.43
31:CA:767:A:H2'	31:CA:768:A:O4'	2.18	0.43
31:CA:1128:C:C5	31:CA:1139:G:C5	3.07	0.43
31:CA:1159:U:C2	31:CA:1182:G:N1	2.87	0.43
31:CA:1189:C:H5''	33:CF:5:ILE:HG21	2.00	0.43
32:CE:48:MET:HE3	32:CE:48:MET:HB3	1.86	0.43
32:CE:165:VAL:O	32:CE:187:LEU:O	2.37	0.43
33:CF:9:GLY:HA2	33:CF:12:LEU:HG	2.00	0.43
34:CG:188:LEU:HA	34:CG:188:LEU:HD23	1.79	0.43
38:CK:97:VAL:HG21	38:CK:128:GLY:HA2	2.01	0.43
41:CN:33:THR:HG22	41:CN:39:PRO:HA	2.01	0.43
41:CN:34:ASP:HA	41:CN:40:ILE:HD11	2.01	0.43
47:CT:36:ILE:O	47:CT:36:ILE:HG13	2.19	0.43
52:CB:45:U:C2'	52:CB:46:G:H5''	2.49	0.43
53:CD:68:C:N3	53:CD:69:C:C4	2.87	0.43
31:DA:46:G:HO2'	31:DA:365:U:H1'	1.82	0.43
31:DA:582:U:C2	31:DA:760:G:C6	3.06	0.43
31:DA:619:U:C2	34:DG:135:LEU:HD21	2.53	0.43
31:DA:1179:A:O3'	39:DL:103:THR:HG23	2.19	0.43
31:DA:1231:G:C2'	31:DA:1232:U:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1275:A:C2	31:DA:1276:G:H1'	2.54	0.43
31:DA:1305:G:H1'	31:DA:1332:A:N6	2.34	0.43
33:DF:94:LEU:HD12	33:DF:95:THR:N	2.31	0.43
34:DG:128:VAL:N	34:DG:131:ARG:O	2.51	0.43
36:DI:2:ARG:NH2	36:DI:69:GLU:HG3	2.33	0.43
38:DK:40:ALA:HA	38:DK:45:ILE:HG13	1.99	0.43
41:DN:20:TYR:CZ	41:DN:83:ILE:HD12	2.54	0.43
45:DR:3:ILE:HG22	45:DR:38:ARG:HH21	1.84	0.43
53:DC:30:G:O2'	53:DC:31:G:H5'	2.19	0.43
1:AA:270(P):C:H2'	1:AA:270(Q):C:C6	2.54	0.43
1:AA:322:A:OP2	5:AF:169:ASN:HB2	2.18	0.43
1:AA:488:G:N2	1:AA:491:G:H5''	2.33	0.43
1:AA:729:G:N3	1:AA:1775:U:H1'	2.34	0.43
1:AA:821:A:H5''	1:AA:822:U:H6	1.84	0.43
1:AA:880:G:C6	1:AA:881:G:C5	3.06	0.43
1:AA:1025:G:C5	1:AA:1135:C:H1'	2.53	0.43
1:AA:1047:G:HO2'	1:AA:1048:A:H8	1.62	0.43
1:AA:1062:G:C2'	1:AA:1063:G:C8	2.99	0.43
1:AA:1141:U:OP2	9:AM:63:THR:HG23	2.19	0.43
1:AA:1150:C:H2'	1:AA:1151:G:O4'	2.19	0.43
1:AA:1259:G:H2'	1:AA:1260:G:C8	2.54	0.43
1:AA:1503:U:H2'	1:AA:1504:C:C6	2.54	0.43
1:AA:2286:A:H4'	1:AA:2287:A:O4'	2.19	0.43
2:AB:73:A:C2'	2:AB:74:U:H5'	2.49	0.43
4:AE:154:LYS:HD3	4:AE:154:LYS:HA	1.78	0.43
7:AH:115:VAL:O	7:AH:116:GLU:C	2.61	0.43
8:AK:5:LEU:HD23	8:AK:5:LEU:HA	1.76	0.43
8:AK:128:LEU:O	8:AK:138:ILE:N	2.52	0.43
9:AM:22:THR:O	9:AM:61:ARG:O	2.36	0.43
9:AM:46:VAL:HG11	9:AM:48:MET:HG3	1.93	0.43
10:AN:73:ASP:OD1	10:AN:73:ASP:C	2.62	0.43
11:AO:1:MET:HE2	11:AO:6:LEU:HD13	2.00	0.43
15:AR:117:ASP:OD1	15:AR:120:ARG:NE	2.39	0.43
26:A4:55:ARG:NH1	26:A4:56:VAL:HG23	2.34	0.43
28:A6:52:VAL:HG22	28:A6:53:LYS:HG3	2.01	0.43
30:A8:7:HIS:HE1	30:A8:9:GLY:HA3	1.84	0.43
30:A8:51:ALA:CA	30:A8:53:PRO:HD2	2.49	0.43
1:BA:244:A:H2'	1:BA:245:G:O4'	2.19	0.43
1:BA:650:C:O3'	30:B8:17:THR:HB	2.19	0.43
1:BA:675:A:C4	1:BA:804:A:C2	3.06	0.43
1:BA:838:C:C2'	1:BA:839:U:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1114:G:C6	1:BA:1115:G:C5	3.06	0.43
1:BA:1248:G:C4	16:B1:3:ARG:HB2	2.54	0.43
1:BA:1779:U:C6	1:BA:1783:A:N7	2.87	0.43
1:BA:1991:U:C2'	1:BA:1992:G:H5''	2.47	0.43
1:BA:2600:A:H2'	1:BA:2601:C:C6	2.54	0.43
1:BA:2758:A:C2	1:BA:2759:G:H1'	2.54	0.43
1:BA:2842:G:C2'	1:BA:2843:G:H5'	2.49	0.43
2:BB:40:U:H1'	2:BB:46:A:C2	2.53	0.43
4:BE:28:ALA:O	4:BE:93:VAL:HG22	2.18	0.43
4:BE:47:VAL:HG12	4:BE:48:GLN:N	2.34	0.43
4:BE:82:ARG:HA	4:BE:82:ARG:HD3	1.72	0.43
6:BG:66:GLN:HG3	26:B4:6:HIS:CE1	2.53	0.43
7:BH:149:ARG:HG2	7:BH:162:ILE:O	2.18	0.43
8:BK:82:ARG:HH11	8:BK:146:ALA:CA	2.30	0.43
8:BK:110:ASP:OD2	8:BK:113:ARG:CB	2.66	0.43
10:BN:61:VAL:HG12	10:BN:87:ILE:HD13	2.00	0.43
11:BO:85:LEU:HA	11:BO:88:LEU:HB2	2.01	0.43
11:BO:90:ARG:CG	11:BO:91:PHE:H	2.31	0.43
11:BO:101:VAL:HA	11:BO:106:LEU:HB3	2.00	0.43
11:BO:125:VAL:HG13	11:BO:144:GLU:HB3	2.00	0.43
12:BP:58:PHE:HE2	12:BP:106:VAL:HG21	1.84	0.43
15:BR:54:ARG:HA	15:BR:59:THR:CB	2.37	0.43
19:BT:84:ALA:O	19:BT:87:GLN:HG3	2.19	0.43
21:BV:117:LEU:HD13	21:BV:117:LEU:HA	1.80	0.43
28:B6:27:LYS:NZ	28:B6:27:LYS:HB3	2.33	0.43
31:CA:355:C:C5'	31:CA:389:A:OP2	2.67	0.43
31:CA:599:C:O2'	31:CA:600:C:H5'	2.18	0.43
31:CA:658:G:O2'	31:CA:659:U:H5'	2.19	0.43
31:CA:955:U:C1'	31:CA:1227:A:H61	2.30	0.43
32:CE:96:ARG:H	32:CE:96:ARG:CD	2.11	0.43
32:CE:98:LEU:CG	32:CE:101:MET:HE3	2.49	0.43
33:CF:181:ASN:HD22	33:CF:204:LEU:HB2	1.81	0.43
34:CG:96:LEU:HD12	34:CG:139:ARG:HH11	1.82	0.43
34:CG:173:TRP:CD2	34:CG:189:PRO:HB3	2.53	0.43
36:CI:55:ASP:HA	36:CI:56:PRO:HD2	1.79	0.43
36:CI:89:MET:CE	48:CU:76:LEU:CD2	2.97	0.43
40:CM:21:GLN:O	40:CM:25:GLU:HG2	2.19	0.43
41:CN:33:THR:HB	41:CN:37:GLY:C	2.44	0.43
44:CQ:45:ARG:HH11	44:CQ:49:HIS:CE1	2.36	0.43
45:CR:55:GLY:O	45:CR:58:MET:N	2.52	0.43
46:CS:43:LYS:HA	46:CS:48:TRP:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:14:A:N1	52:CB:21:A:N1	2.67	0.43
31:DA:489:C:O2'	31:DA:490:G:H5'	2.18	0.43
31:DA:616:G:N3	31:DA:616:G:H2'	2.33	0.43
31:DA:663:A:H5'	31:DA:836:G:OP1	2.18	0.43
31:DA:897:C:C4	31:DA:898:G:N7	2.87	0.43
31:DA:940:C:H2'	31:DA:941:G:H8	1.84	0.43
31:DA:1060:C:C2	31:DA:1198:G:C2	3.07	0.43
31:DA:1127:G:H1'	31:DA:1147:C:H42	1.83	0.43
31:DA:1347:G:C5	39:DL:107:ARG:NH2	2.86	0.43
31:DA:1378:C:C5	31:DA:1379:G:N9	2.80	0.43
32:DE:41:ILE:O	32:DE:41:ILE:HG22	2.18	0.43
33:DF:64:VAL:HG22	33:DF:66:VAL:HG23	2.00	0.43
33:DF:115:LEU:O	33:DF:116:VAL:C	2.62	0.43
34:DG:132:ARG:HG3	34:DG:133:VAL:N	2.33	0.43
37:DJ:78:ARG:HB3	37:DJ:87:VAL:HG21	1.99	0.43
37:DJ:115:ARG:O	37:DJ:118:VAL:HG12	2.18	0.43
39:DL:47:LEU:HD23	39:DL:50:LEU:HD12	2.01	0.43
46:DS:40:ASP:HA	46:DS:41:PRO:HD2	1.83	0.43
49:DV:51:VAL:HG23	49:DV:60:VAL:CG1	2.48	0.43
1:AA:69:C:H2'	1:AA:70:G:C8	2.54	0.43
1:AA:107:C:H2'	1:AA:108:U:C6	2.51	0.43
1:AA:139:G:N2	1:AA:141:A:N1	2.66	0.43
1:AA:729:G:C2	1:AA:1775:U:H1'	2.54	0.43
1:AA:752:A:C5	1:AA:1781:C:O4'	2.72	0.43
1:AA:889:C:O2	1:AA:889:C:O5'	2.36	0.43
1:AA:989:G:N7	25:AX:13:ILE:HD11	2.33	0.43
1:AA:1060:U:C4	1:AA:1062:G:H4'	2.54	0.43
1:AA:1268:A:H2'	1:AA:1269:A:O5'	2.19	0.43
1:AA:1373:A:H2'	1:AA:1374:G:O4'	2.19	0.43
1:AA:1466:G:N3	1:AA:1466:G:H2'	2.33	0.43
1:AA:1519:G:O2'	1:AA:1520:U:H5'	2.19	0.43
1:AA:1776:G:C2	1:AA:1777:U:C6	3.07	0.43
1:AA:1791:A:H8	1:AA:1791:A:OP2	2.01	0.43
1:AA:1827:C:H2'	1:AA:1828:G:H5'	1.98	0.43
1:AA:1829:A:C2'	1:AA:1830:C:H5'	2.48	0.43
1:AA:1833:U:C2'	1:AA:1834:U:H5'	2.48	0.43
1:AA:2472:G:C4	1:AA:2475:C:N4	2.87	0.43
1:AA:2615:U:C2	27:A5:7:PRO:HA	2.54	0.43
1:AA:2666:C:N4	7:AH:109:PHE:HA	2.34	0.43
1:AA:2749:A:H5''	7:AH:6:ARG:HD3	2.01	0.43
3:AD:149:PRO:HD3	3:AD:189:CYS:SG	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:8:LYS:NZ	4:AE:188:VAL:O	2.47	0.43
5:AF:27:GLU:HA	5:AF:27:GLU:OE2	2.19	0.43
7:AH:153:LYS:N	7:AH:153:LYS:NZ	2.67	0.43
8:AK:37:VAL:HG22	8:AK:38:LEU:N	2.34	0.43
8:AK:76:THR:CG2	8:AK:77:LEU:N	2.82	0.43
12:AP:19:GLY:HA3	12:AP:98:LYS:HZ3	1.84	0.43
14:AQ:42:ASP:O	14:AQ:43:GLU:HG2	2.18	0.43
14:AQ:58:LEU:HD23	14:AQ:58:LEU:H	1.83	0.43
18:AS:29:LEU:CD2	18:AS:33:ARG:CZ	2.91	0.43
18:AS:36:LEU:O	18:AS:37:ARG:C	2.60	0.43
19:AT:12:VAL:CG1	19:AT:27:THR:O	2.62	0.43
21:AV:141:VAL:HG12	21:AV:142:SER:N	2.31	0.43
23:AZ:83:GLU:CD	23:AZ:83:GLU:H	2.27	0.43
1:BA:36:G:H4'	1:BA:451:C:C2	2.54	0.43
1:BA:139:G:N3	1:BA:141:A:N1	2.65	0.43
1:BA:213:A:H2'	1:BA:214:G:O4'	2.19	0.43
1:BA:282:A:N6	1:BA:284:U:C2	2.87	0.43
1:BA:966:G:H2'	1:BA:967:C:C6	2.53	0.43
1:BA:1005:C:C2	1:BA:1143:A:C6	3.07	0.43
1:BA:1043:C:H2'	1:BA:1044:G:C5'	2.49	0.43
1:BA:1553:A:C8	1:BA:1555:G:C6	3.07	0.43
1:BA:2135:A:H62	1:BA:2156:G:H21	1.66	0.43
1:BA:2364:C:H4'	22:B3:56:ASP:OD2	2.18	0.43
1:BA:2431:U:O2	1:BA:2433:A:C8	2.71	0.43
1:BA:2523:G:H2'	1:BA:2524:G:H5'	2.00	0.43
1:BA:2667:C:N3	7:BH:110:SER:OG	2.36	0.43
1:BA:2881:C:O2'	13:B0:96:ARG:HA	2.18	0.43
2:BB:45:A:H1'	6:BG:95:ARG:NH2	2.33	0.43
3:BD:12:SER:HB2	3:BD:208:LYS:HB3	2.00	0.43
4:BE:203:LYS:O	4:BE:204:ALA:HB3	2.18	0.43
5:BF:7:TYR:HA	5:BF:125:LEU:O	2.19	0.43
5:BF:23:ASP:OD2	5:BF:203:GLN:NE2	2.52	0.43
6:BG:79:ASN:ND2	6:BG:79:ASN:N	2.67	0.43
7:BH:10:PRO:O	7:BH:49:VAL:HG12	2.18	0.43
7:BH:99:VAL:HG21	7:BH:104:GLU:OE2	2.18	0.43
8:BK:38:LEU:HD12	8:BK:38:LEU:N	2.31	0.43
9:BM:134:ARG:N	9:BM:135:PRO:HD3	2.34	0.43
12:BP:32:TYR:CD1	12:BP:114:ALA:HB3	2.54	0.43
13:B0:82:GLU:C	13:B0:85:PRO:HD2	2.44	0.43
16:B1:65:ILE:CD1	16:B1:96:ALA:HB1	2.46	0.43
16:B1:114:LYS:HG2	16:B1:114:LYS:H	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BV:157:LEU:HA	21:BV:158:PRO:HD3	1.88	0.43
21:BV:161:VAL:HB	21:BV:162:GLU:H	1.56	0.43
31:CA:8:A:H5''	35:CH:120:THR:O	2.19	0.43
31:CA:279:A:C8	47:CT:98:LEU:HD13	2.53	0.43
31:CA:356:A:C2'	31:CA:368:U:O2'	2.67	0.43
31:CA:833:U:H2'	31:CA:834:C:H6	1.84	0.43
31:CA:957:U:H3	31:CA:960:U:H5''	1.82	0.43
31:CA:1067:A:N3	31:CA:1068:G:H1'	2.33	0.43
31:CA:1290:G:N3	31:CA:1290:G:H2'	2.34	0.43
31:CA:1455:G:OP1	50:CW:35:THR:OG1	2.29	0.43
31:CA:1494:G:N7	56:CA:1841:PAR:N32	2.67	0.43
42:CO:72:HIS:CD2	42:CO:72:HIS:C	2.96	0.43
43:CP:104:ARG:C	43:CP:105:THR:HG22	2.44	0.43
44:CQ:12:ARG:O	44:CQ:12:ARG:HG3	2.18	0.43
45:CR:57:LEU:HA	45:CR:57:LEU:HD23	1.65	0.43
46:CS:71:ARG:O	46:CS:74:LEU:N	2.51	0.43
48:CU:53:ARG:HH21	48:CU:60:ALA:H	1.67	0.43
52:CB:23:A:H3'	52:CB:24:C:C6	2.53	0.43
31:DA:468:A:C2'	31:DA:474:G:H5'	2.47	0.43
31:DA:1190:G:H5'	33:DF:176:HIS:NE2	2.33	0.43
31:DA:1305:G:C5'	51:DX:4:GLY:CA	2.93	0.43
32:DE:178:ARG:NH1	32:DE:196:LEU:O	2.45	0.43
33:DF:3:ASN:OD1	33:DF:3:ASN:N	2.52	0.43
33:DF:17:ASP:C	33:DF:18:TRP:HE3	2.26	0.43
33:DF:27:LYS:HB3	33:DF:27:LYS:NZ	2.34	0.43
34:DG:8:VAL:C	34:DG:10:ARG:N	2.76	0.43
49:DV:65:ASN:C	49:DV:66:MET:HE3	2.44	0.43
50:DW:42:GLN:HA	50:DW:42:GLN:NE2	2.34	0.43
52:DB:59:U:H4'	52:DB:60:A:H5''	2.01	0.43
53:DC:1:C:O2'	53:DC:2:G:P	2.76	0.43
1:AA:6:A:H2'	1:AA:7:G:O4'	2.18	0.43
1:AA:288:C:H2'	1:AA:289:A:C8	2.53	0.43
1:AA:338:G:H2'	1:AA:339:U:C6	2.51	0.43
1:AA:389:G:C2	11:AO:71:VAL:HG12	2.51	0.43
1:AA:966:G:O4'	1:AA:2267:A:N6	2.52	0.43
1:AA:1047:G:H2'	1:AA:1110:G:C2	2.54	0.43
1:AA:1232:G:C6	1:AA:1233:C:C4	3.07	0.43
1:AA:1232:G:C5	1:AA:1233:C:C5	3.07	0.43
1:AA:1251:C:OP1	16:A1:10:ARG:HG3	2.19	0.43
1:AA:1326:U:O4	1:AA:1647:G:H1'	2.18	0.43
1:AA:1355:G:H2'	1:AA:1356:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1404:C:H2'	1:AA:1405:U:H6	1.84	0.43
1:AA:1436:G:H1'	1:AA:1477:A:O2'	2.18	0.43
1:AA:1458:C:H4'	1:AA:1459:G:H5'	1.99	0.43
1:AA:1479:G:H5'	1:AA:1558:A:H2	1.83	0.43
1:AA:1819:A:OP1	3:AD:156:ALA:HA	2.19	0.43
1:AA:1971:A:H2'	1:AA:1972:A:OP1	2.18	0.43
1:AA:2580:U:O2	1:AA:2580:U:H2'	2.18	0.43
1:AA:2815:C:H2'	1:AA:2816:C:O4'	2.19	0.43
1:AA:2884:U:H2'	1:AA:2885:C:C5'	2.49	0.43
4:AE:201:THR:HG22	4:AE:202:LYS:N	2.33	0.43
5:AF:127:GLU:CD	5:AF:128:ALA:N	2.77	0.43
6:AG:7:LEU:H	6:AG:104:GLU:CD	2.23	0.43
7:AH:29:PRO:HG2	7:AH:79:VAL:O	2.19	0.43
8:AK:29:TYR:CD2	8:AK:30:LEU:HD23	2.54	0.43
12:AP:69:PHE:HA	12:AP:70:PRO:HD3	1.74	0.43
12:AP:70:PRO:HA	12:AP:94:VAL:C	2.44	0.43
13:A0:97:VAL:HG22	13:A0:114:VAL:HG22	2.01	0.43
16:A1:59:ARG:O	16:A1:63:VAL:HG23	2.18	0.43
17:A2:38:LEU:HD12	17:A2:57:VAL:CG1	2.46	0.43
18:AS:5:ALA:HB3	18:AS:54:ALA:HB2	2.00	0.43
26:A4:7:PRO:HB2	26:A4:27:THR:HG21	2.01	0.43
1:BA:489:G:H2'	1:BA:491:G:O4'	2.19	0.43
1:BA:644:A:H5''	1:BA:645:C:OP2	2.18	0.43
1:BA:843:G:N2	1:BA:936:C:C2	2.87	0.43
1:BA:883:G:C6	1:BA:884:C:N4	2.87	0.43
1:BA:990:A:OP2	1:BA:991:C:OP2	2.37	0.43
1:BA:1575:C:H2'	1:BA:1576:U:C6	2.53	0.43
1:BA:1645:G:H5''	1:BA:1646:C:O4'	2.19	0.43
1:BA:2169:A:C2	1:BA:2170:A:C6	3.06	0.43
1:BA:2328:A:H2'	1:BA:2329:G:O4'	2.18	0.43
1:BA:2356:C:C5	1:BA:2357:U:C4	3.07	0.43
1:BA:2468:G:H2'	1:BA:2481:G:N2	2.33	0.43
1:BA:2508:G:H5'	52:DB:85:C:N4	2.34	0.43
1:BA:2732:G:H3'	1:BA:2733:A:O4'	2.19	0.43
3:BD:48:ARG:HH11	3:BD:48:ARG:CG	2.21	0.43
4:BE:48:GLN:HA	4:BE:80:GLU:CA	2.31	0.43
5:BF:46:ARG:CG	5:BF:46:ARG:NH1	2.64	0.43
6:BG:98:ARG:O	6:BG:101:ILE:HG13	2.18	0.43
7:BH:136:ILE:HD12	7:BH:136:ILE:H	1.84	0.43
10:BN:31:LYS:HB3	10:BN:32:TYR:CE1	2.54	0.43
12:BP:42:ILE:CG2	12:BP:47:ILE:HG13	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BP:113:GLN:HA	12:BP:113:GLN:NE2	2.34	0.43
16:B1:27:LEU:N	16:B1:27:LEU:HD23	2.33	0.43
19:BT:41:ASN:N	19:BT:41:ASN:HD22	2.17	0.43
21:BV:130:PRO:HA	21:BV:133:ILE:HD11	2.01	0.43
22:B3:18:ALA:HB3	22:B3:20:ARG:NH2	2.34	0.43
26:B4:63:TYR:CD2	49:DV:41:VAL:HG13	2.54	0.43
31:CA:167:G:H2'	31:CA:168:G:H5'	1.97	0.43
31:CA:312:C:H2'	31:CA:313:A:H8	1.83	0.43
31:CA:390:C:H4'	46:CS:28:ARG:NH2	2.34	0.43
31:CA:449:C:O2	31:CA:449:C:O4'	2.36	0.43
31:CA:616:G:C2	31:CA:617:G:C8	3.06	0.43
31:CA:688:G:O2'	31:CA:689:C:H5'	2.19	0.43
31:CA:872:A:H4'	31:CA:873:A:OP1	2.19	0.43
31:CA:974:A:OP2	44:CQ:41:ARG:NH1	2.51	0.43
31:CA:1166:G:H1'	31:CA:1170:A:N6	2.34	0.43
31:CA:1240:U:OP2	37:CJ:116:ALA:N	2.50	0.43
31:CA:1401:G:N2	31:CA:1402:C:H1'	2.34	0.43
35:CH:91:LEU:HD12	35:CH:120:THR:CG2	2.41	0.43
39:CL:79:LEU:O	39:CL:79:LEU:HD22	2.18	0.43
40:CM:5:ARG:CB	40:CM:73:ASP:OD2	2.63	0.43
40:CM:30:SER:OG	40:CM:84:GLN:NE2	2.52	0.43
43:CP:25:ILE:HD11	43:CP:60:VAL:HG11	1.99	0.43
49:CV:40:ILE:O	49:CV:41:VAL:CG2	2.67	0.43
50:CW:100:ILE:HD12	50:CW:101:GLY:H	1.84	0.43
31:DA:178:C:C2	31:DA:179:A:C8	3.07	0.43
31:DA:267:C:OP1	47:DT:67:LYS:HB2	2.19	0.43
31:DA:413:G:C2'	31:DA:428:G:N2	2.82	0.43
31:DA:421:U:O2	31:DA:421:U:C2'	2.56	0.43
31:DA:837:G:N2	31:DA:850:U:O2	2.51	0.43
31:DA:841:U:H4'	31:DA:842:C:C5	2.54	0.43
31:DA:922:G:C2	31:DA:923:A:C4	3.06	0.43
31:DA:945:G:C2	31:DA:946:A:C8	3.07	0.43
31:DA:1089:G:C5	31:DA:1090:U:C5	3.07	0.43
31:DA:1135:U:H4'	31:DA:1136:U:C5	2.47	0.43
31:DA:1177:G:H2'	31:DA:1178:G:C2	2.54	0.43
31:DA:1192:C:N4	31:DA:1193:G:C5	2.87	0.43
31:DA:1207:G:C2	31:DA:1208:C:C2	3.07	0.43
31:DA:1244:C:OP2	51:DX:9:ARG:HG2	2.18	0.43
31:DA:1329:A:H4'	43:DP:24:GLY:HA2	2.01	0.43
32:DE:71:VAL:CG1	32:DE:97:TRP:HD1	2.31	0.43
32:DE:162:ILE:O	32:DE:162:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DF:7:PRO:CB	33:DF:11:ARG:HH12	2.32	0.43
33:DF:23:TYR:CG	33:DF:24:ALA:N	2.87	0.43
39:DL:18:PHE:O	39:DL:19:LEU:HD23	2.18	0.43
39:DL:53:VAL:HG11	39:DL:92:TYR:CD2	2.53	0.43
40:DM:30:SER:HB2	40:DM:80:LYS:HG2	1.99	0.43
46:DS:1:MET:O	46:DS:1:MET:HG3	2.19	0.43
49:DV:28:LYS:HG2	49:DV:29:ARG:N	2.30	0.43
1:AA:5:A:N6	1:AA:6:A:N6	2.67	0.42
1:AA:130:C:O3'	1:AA:1349:A:H1'	2.18	0.42
1:AA:141(A):C:H2'	1:AA:142:G:O4'	2.19	0.42
1:AA:234:C:H2'	1:AA:235:U:C6	2.54	0.42
1:AA:270(G):C:C4	1:AA:270(H):C:C5	3.07	0.42
1:AA:354:G:C2'	1:AA:355:G:H5'	2.48	0.42
1:AA:539:G:H5'	1:AA:540:G:OP2	2.18	0.42
1:AA:748:G:OP2	18:AS:88:ARG:HG3	2.18	0.42
1:AA:848:G:H2'	1:AA:849:A:C8	2.54	0.42
1:AA:1086:A:O3'	1:AA:1087:G:C8	2.71	0.42
1:AA:1165:U:O5'	1:AA:1165:U:H6	2.02	0.42
1:AA:1218:C:N4	1:AA:1231:G:H1	2.16	0.42
1:AA:1665:A:H2'	1:AA:1666:G:O4'	2.19	0.42
1:AA:1678:G:C8	1:AA:1678:G:H5''	2.53	0.42
1:AA:1684:C:H2'	1:AA:1685:C:C6	2.54	0.42
1:AA:1774:C:H6	1:AA:1774:C:O5'	2.01	0.42
1:AA:2104:G:N1	1:AA:2186:G:C6	2.87	0.42
1:AA:2110:G:C6	1:AA:2120:G:C8	3.07	0.42
1:AA:2113:U:O2	1:AA:2113:U:O4'	2.36	0.42
1:AA:2606:C:C2'	1:AA:2607:G:H5'	2.49	0.42
3:AD:17:THR:HG22	3:AD:204:ILE:CA	2.45	0.42
5:AF:128:ALA:O	5:AF:129:PHE:HB2	2.19	0.42
5:AF:133:ASN:HB3	5:AF:138:GLU:OE1	2.19	0.42
6:AG:56:ALA:HB2	6:AG:153:ARG:HE	1.84	0.42
8:AK:104:GLN:O	8:AK:105:HIS:HB2	2.19	0.42
10:AN:14:THR:HG22	10:AN:95:GLY:N	2.34	0.42
11:AO:56:SER:O	11:AO:57:THR:C	2.62	0.42
13:A0:24:GLN:NE2	13:A0:36:THR:HG21	2.28	0.42
14:AQ:86:ALA:O	14:AQ:87:PHE:CB	2.66	0.42
15:AR:58:ASN:C	15:AR:59:THR:O	2.58	0.42
16:A1:105:VAL:HG22	17:A2:44:LYS:HG3	2.01	0.42
17:A2:34:GLU:HB3	17:A2:58:VAL:HG22	2.01	0.42
19:AT:11:PRO:HB2	19:AT:13:LEU:HD21	2.00	0.42
21:AV:80:ARG:H	21:AV:80:ARG:HG2	1.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A4:16:CYS:C	26:A4:18:CYS:N	2.77	0.42
26:A4:62:ARG:O	26:A4:62:ARG:HG3	2.14	0.42
28:A6:33:LYS:HA	28:A6:33:LYS:HD3	1.68	0.42
1:BA:247:G:H4'	1:BA:386:G:C4	2.54	0.42
1:BA:654(S):G:H4'	1:BA:654(T):A:OP1	2.18	0.42
1:BA:838:C:O2'	1:BA:839:U:H5'	2.19	0.42
1:BA:937:U:H2'	1:BA:938:G:C8	2.53	0.42
1:BA:982:C:O5'	1:BA:982:C:H6	2.02	0.42
1:BA:1028:A:N6	1:BA:1125:G:H2'	2.34	0.42
1:BA:1410:G:C2	1:BA:1593:G:C2	3.06	0.42
1:BA:1528:A:C6	1:BA:1545:A:C2	3.07	0.42
1:BA:1545(A):A:N7	1:BA:1546:C:O2	2.52	0.42
1:BA:1548:C:O2'	1:BA:1549:C:H5'	2.18	0.42
1:BA:2016:U:C5	1:BA:2017:U:C5	3.07	0.42
1:BA:2375:G:N2	1:BA:2378:A:OP2	2.45	0.42
1:BA:2390:U:O2'	1:BA:2391:G:H5'	2.19	0.42
1:BA:2401:U:O2	1:BA:2402:C:H5	2.02	0.42
1:BA:2572:A:OP1	4:BE:144:ARG:HB2	2.18	0.42
1:BA:2629:A:N3	1:BA:2629:A:O4'	2.52	0.42
1:BA:2705:A:H2'	1:BA:2706:G:O4'	2.19	0.42
1:BA:2864:G:OP1	15:BR:119:LYS:HD2	2.18	0.42
1:BA:2881:C:HO2'	13:B0:96:ARG:HA	1.84	0.42
3:BD:107:ALA:HA	3:BD:108:PRO:HD2	1.88	0.42
4:BE:78:LEU:C	4:BE:79:ARG:HD2	2.43	0.42
6:BG:116:ASP:O	6:BG:117:PHE:HB3	2.19	0.42
9:BM:28:THR:HG22	9:BM:29:LYS:N	2.34	0.42
16:B1:92:ARG:HD2	17:B2:11:GLN:HB2	2.01	0.42
18:BS:79:GLY:CA	18:BS:100:THR:HG22	2.48	0.42
19:BT:31:HIS:HA	19:BT:32:PRO:HD3	1.84	0.42
20:BU:75:ILE:HA	20:BU:80:GLY:HA3	2.01	0.42
21:BV:69:THR:CG2	21:BV:90:VAL:HG22	2.49	0.42
21:BV:72:ARG:HA	21:BV:72:ARG:HD2	1.89	0.42
21:BV:150:LEU:O	21:BV:150:LEU:HD13	2.18	0.42
23:BZ:83:GLU:CD	23:BZ:83:GLU:H	2.27	0.42
29:B7:12:ARG:HD3	29:B7:46:VAL:HG13	2.01	0.42
30:B8:36:LYS:H	30:B8:36:LYS:HG2	1.41	0.42
31:CA:5:U:O2'	31:CA:6:G:O5'	2.37	0.42
31:CA:142:G:O2'	31:CA:195:A:N6	2.52	0.42
31:CA:513:C:H2'	31:CA:514:C:O4'	2.19	0.42
31:CA:690:G:N2	41:CN:55:LYS:NZ	2.67	0.42
31:CA:751:U:O2	31:CA:751:U:H2'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:973:G:C3'	31:CA:974:A:H5''	2.48	0.42
31:CA:1049:U:OP1	44:CQ:3:ARG:HB2	2.18	0.42
31:CA:1312:G:O2'	31:CA:1313:U:H5'	2.18	0.42
33:CF:23:TYR:CD2	33:CF:24:ALA:N	2.86	0.42
35:CH:64:ARG:HH11	35:CH:64:ARG:CG	2.28	0.42
39:CL:28:VAL:HA	39:CL:63:ILE:O	2.19	0.42
43:CP:25:ILE:HD11	43:CP:60:VAL:CG1	2.49	0.42
43:CP:84:ILE:HD12	43:CP:84:ILE:HA	1.89	0.42
44:CQ:8:GLU:OE2	44:CQ:11:LYS:HD2	2.19	0.42
45:CR:78:TYR:O	45:CR:79:ARG:C	2.62	0.42
46:CS:67:THR:O	46:CS:70:ALA:HB3	2.19	0.42
49:CV:41:VAL:HG12	49:CV:44:MET:HB2	2.01	0.42
51:CX:3:LYS:HB3	51:CX:14:TRP:CD1	2.54	0.42
31:DA:87:A:N1	31:DA:88:C:H5	2.16	0.42
31:DA:119:A:C8	31:DA:288:A:C2	3.07	0.42
31:DA:224:C:H2'	31:DA:225:C:C6	2.53	0.42
31:DA:423:G:N2	31:DA:424:G:C5	2.87	0.42
31:DA:584:G:OP1	47:DT:87:LYS:HE2	2.19	0.42
31:DA:695:A:OP1	41:DN:52:GLY:HA3	2.19	0.42
31:DA:715:A:H2'	31:DA:716:A:C8	2.54	0.42
31:DA:1002:G:C2'	31:DA:1003:G:H8	2.26	0.42
31:DA:1086:U:H3	31:DA:1099:G:H22	1.67	0.42
31:DA:1347:G:H22	31:DA:1373:G:H2'	1.82	0.42
31:DA:1360:A:H2'	31:DA:1361:G:O4'	2.19	0.42
32:DE:73:THR:O	32:DE:74:LYS:C	2.62	0.42
33:DF:6:HIS:NE2	33:DF:184:TYR:HE2	2.17	0.42
33:DF:77:ILE:HG22	33:DF:78:GLY:O	2.19	0.42
34:DG:111:ALA:HB2	34:DG:120:LEU:CD1	2.49	0.42
37:DJ:115:ARG:O	37:DJ:118:VAL:CG1	2.67	0.42
38:DK:54:ASP:OD1	38:DK:54:ASP:N	2.52	0.42
43:DP:23:TYR:HE1	43:DP:71:ARG:HB2	1.83	0.42
44:DQ:36:PHE:CD1	44:DQ:36:PHE:C	2.96	0.42
47:DT:81:ARG:NH2	47:DT:84:LEU:HD11	2.33	0.42
50:DW:14:LYS:HB2	50:DW:17:ARG:NH2	2.34	0.42
50:DW:67:ALA:O	50:DW:73:HIS:ND1	2.52	0.42
1:AA:162:U:O2'	1:AA:163:U:C5	2.73	0.42
1:AA:456:C:O2'	1:AA:457:A:H5'	2.19	0.42
1:AA:557:U:H2'	1:AA:558:G:H8	1.84	0.42
1:AA:577:G:C6	1:AA:578:A:N6	2.87	0.42
1:AA:654(M):C:H2'	1:AA:654(N):G:H8	1.72	0.42
1:AA:1666:G:C2'	1:AA:1667:G:H5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1871:A:H2'	1:AA:1872:A:C8	2.54	0.42
1:AA:2011:U:OP2	18:AS:16:LYS:HE3	2.19	0.42
1:AA:2051:A:O4'	4:AE:141:ILE:HD13	2.18	0.42
1:AA:2592:G:C6	1:AA:2593:U:C4	3.08	0.42
3:AD:12:SER:O	3:AD:16:MET:HB2	2.19	0.42
3:AD:71:ASP:CB	3:AD:103:ARG:NH2	2.78	0.42
4:AE:9:VAL:HB	4:AE:25:VAL:HG23	2.01	0.42
4:AE:20:ALA:O	4:AE:21:VAL:HG12	2.18	0.42
4:AE:181:LEU:HA	4:AE:181:LEU:HD12	1.61	0.42
6:AG:62:LEU:HD12	6:AG:62:LEU:HA	1.76	0.42
6:AG:80:PHE:C	6:AG:81:LYS:O	2.62	0.42
7:AH:8:PRO:HG2	7:AH:69:ARG:NH2	2.34	0.42
7:AH:105:LEU:HD23	7:AH:113:VAL:O	2.19	0.42
8:AK:13:GLY:CA	8:AK:17:GLN:OE1	2.64	0.42
9:AM:114:ARG:O	9:AM:116:LEU:N	2.52	0.42
13:A0:26:LYS:HE2	13:A0:70:LEU:O	2.19	0.42
16:A1:65:ILE:C	16:A1:67:ALA:H	2.27	0.42
17:A2:65:GLY:HA3	17:A2:91:TYR:CZ	2.54	0.42
18:AS:84:ARG:HB2	18:AS:96:ILE:HD13	2.00	0.42
20:AU:86:ARG:NH1	20:AU:95:LYS:HD3	2.34	0.42
21:AV:52:SER:C	21:AV:54:HIS:H	2.27	0.42
23:AZ:91:LYS:O	23:AZ:92:LYS:C	2.62	0.42
28:A6:15:GLU:CD	28:A6:41:PRO:HB3	2.44	0.42
1:BA:419:C:H2'	1:BA:420:C:C6	2.54	0.42
1:BA:548:A:H2'	1:BA:549:G:H5'	2.01	0.42
1:BA:654(M):C:H3'	1:BA:654(N):G:H8	1.84	0.42
1:BA:733:G:H8	1:BA:733:G:O5'	2.02	0.42
1:BA:849:A:H61	1:BA:929:G:C2'	2.32	0.42
1:BA:947:G:H2'	1:BA:948:G:H8	1.83	0.42
1:BA:1022:G:O2'	1:BA:1023:U:P	2.74	0.42
1:BA:1047:G:N2	1:BA:1111:A:H62	2.17	0.42
1:BA:1056:G:H5''	1:BA:1057:A:C5'	2.44	0.42
1:BA:1321:A:H2'	1:BA:1322:A:O4'	2.20	0.42
1:BA:1416:G:H2'	1:BA:1417:C:H6	1.80	0.42
1:BA:1620:G:O4'	29:B7:1:MET:N	2.48	0.42
1:BA:1729:A:C2	1:BA:1730:U:H5	2.37	0.42
1:BA:1870:C:N4	1:BA:1871:A:C6	2.87	0.42
1:BA:2012:G:H8	1:BA:2012:G:O5'	2.02	0.42
1:BA:2097:C:H2'	1:BA:2098:U:O4'	2.20	0.42
1:BA:2211:G:O3'	1:BA:2212:A:O4'	2.37	0.42
1:BA:2394:C:N3	53:DD:77:A:O2'	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2528:U:H5''	1:BA:2529:G:H21	1.84	0.42
1:BA:2720:U:C2	1:BA:2721:A:C8	3.07	0.42
1:BA:2734:A:C8	1:BA:2735:G:C8	3.07	0.42
3:BD:147:LEU:HD23	3:BD:155:LEU:HD13	2.00	0.42
4:BE:26:ILE:HG22	4:BE:27:LEU:C	2.44	0.42
5:BF:3:GLU:O	5:BF:19:GLU:HB3	2.20	0.42
5:BF:170:LEU:HD22	5:BF:172:TRP:HE1	1.83	0.42
6:BG:96:ARG:C	6:BG:98:ARG:H	2.28	0.42
9:BM:90:MET:O	9:BM:95:PRO:HA	2.18	0.42
16:B1:90:VAL:O	16:B1:91:ASP:C	2.61	0.42
21:BV:52:SER:C	21:BV:54:HIS:H	2.27	0.42
21:BV:58:VAL:O	21:BV:67:LEU:O	2.38	0.42
21:BV:118:GLN:HB2	21:BV:173:ALA:O	2.19	0.42
24:BW:11:GLU:O	24:BW:14:ARG:HB3	2.19	0.42
24:BW:59:ARG:O	24:BW:62:THR:HB	2.19	0.42
26:B4:13:ARG:H	26:B4:24:THR:HG21	1.84	0.42
31:CA:51:A:OP2	31:CA:52:G:C8	2.67	0.42
31:CA:438:G:H5'	34:CG:123:HIS:HB3	2.01	0.42
31:CA:502:G:H2'	31:CA:503:C:O4'	2.19	0.42
31:CA:706:A:C1'	41:CN:29:ILE:HD11	2.48	0.42
31:CA:729:A:O2'	31:CA:730:G:H5'	2.19	0.42
31:CA:927:G:N1	31:CA:1391:U:C2	2.88	0.42
31:CA:976:G:C8	31:CA:1358:U:C2	3.07	0.42
31:CA:1288:A:H2'	31:CA:1289:A:C8	2.54	0.42
31:CA:1436:U:H2'	31:CA:1437:C:O4'	2.18	0.42
31:CA:1508:G:H2'	31:CA:1509:C:O4'	2.19	0.42
35:CH:78:HIS:HE1	35:CH:143:ARG:H	1.67	0.42
37:CJ:45:ASP:O	37:CJ:48:LYS:HB3	2.20	0.42
41:CN:29:ILE:HB	41:CN:44:SER:HB3	2.02	0.42
43:CP:57:ARG:O	43:CP:61:GLU:HB2	2.19	0.42
47:CT:48:GLU:HB2	47:CT:50:LYS:HG2	2.01	0.42
47:CT:76:LEU:HD11	47:CT:78:GLU:N	2.31	0.42
50:CW:104:LEU:HD12	50:CW:105:SER:N	2.34	0.42
51:CX:3:LYS:HD2	51:CX:14:TRP:HD1	1.85	0.42
53:CC:20:G:C6	53:CC:58:A:C2	3.07	0.42
31:DA:77:C:C2'	31:DA:78:G:H5''	2.50	0.42
31:DA:790:A:C6	31:DA:791:G:C6	3.07	0.42
31:DA:1047:G:C2'	31:DA:1048:G:H5'	2.49	0.42
31:DA:1105:A:H2'	31:DA:1106:G:H8	1.85	0.42
31:DA:1255:G:O2'	31:DA:1258:G:O2'	2.24	0.42
31:DA:1378:C:C6	31:DA:1379:G:O4'	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DH:7:GLU:OE2	35:DH:37:ARG:NH2	2.51	0.42
39:DL:108:VAL:HG22	39:DL:109:VAL:N	2.34	0.42
41:DN:11:LYS:O	41:DN:11:LYS:HG2	2.20	0.42
41:DN:85:ARG:HG2	41:DN:111:ASP:O	2.19	0.42
41:DN:122:LYS:HB3	41:DN:122:LYS:HE2	1.77	0.42
43:DP:66:LEU:C	43:DP:70:LEU:HD12	2.44	0.42
50:DW:30:LYS:HE3	50:DW:30:LYS:HB2	1.64	0.42
1:AA:30:G:H2'	1:AA:31:C:O4'	2.19	0.42
1:AA:130:C:O3'	1:AA:1349:A:O2'	2.33	0.42
1:AA:196:A:C4	1:AA:805:G:C6	3.07	0.42
1:AA:299:A:H2'	1:AA:319:C:O2'	2.19	0.42
1:AA:304:G:C2	1:AA:314:A:N3	2.87	0.42
1:AA:511:U:O4	1:AA:512:G:C6	2.72	0.42
1:AA:821:A:HO2'	1:AA:945:A:C5'	2.32	0.42
1:AA:1021:A:H3'	1:AA:1021:A:H8	1.84	0.42
1:AA:1062:G:P	1:AA:1070:A:H4'	2.59	0.42
1:AA:1062:G:H3'	1:AA:1063:G:C8	2.54	0.42
1:AA:1083:U:H3'	1:AA:1083:U:C6	2.54	0.42
1:AA:1088:A:H3'	1:AA:1088:A:N3	2.34	0.42
1:AA:1144:G:C6	1:AA:1145:C:C4	3.08	0.42
1:AA:1461:G:O2'	1:AA:1462:C:H5'	2.19	0.42
1:AA:1464:C:N3	1:AA:1465:G:N7	2.68	0.42
1:AA:1512:G:C5	1:AA:1513:C:C4	3.07	0.42
1:AA:1786:A:H4'	1:AA:1787:A:OP2	2.19	0.42
1:AA:2056:G:H1	27:A5:4:HIS:HD2	1.66	0.42
1:AA:2114:A:H2'	1:AA:2168:G:C8	2.54	0.42
1:AA:2287:A:C4	1:AA:2289:G:C8	3.07	0.42
1:AA:2378:A:H4'	14:AQ:23:ARG:NH1	2.34	0.42
1:AA:2704:C:H2'	1:AA:2705:A:C8	2.54	0.42
1:AA:2772:C:H2'	1:AA:2773:C:H6	1.84	0.42
1:AA:2812:G:H2'	1:AA:2813:A:O4'	2.20	0.42
1:AA:2846:G:H2'	1:AA:2847:U:O4'	2.19	0.42
1:AA:2855:C:H2'	1:AA:2856:C:H6	1.84	0.42
3:AD:35:LYS:HE2	3:AD:104:TYR:HB2	1.98	0.42
3:AD:69:ARG:HD3	3:AD:105:ILE:HD11	2.01	0.42
3:AD:126:GLN:H	3:AD:126:GLN:HG3	1.68	0.42
4:AE:23:VAL:HA	4:AE:185:LYS:CA	2.31	0.42
4:AE:114:ALA:HB3	4:AE:160:TYR:HB3	2.00	0.42
5:AF:52:LYS:O	5:AF:88:VAL:HG23	2.19	0.42
6:AG:64:THR:CG2	6:AG:66:GLN:H	2.22	0.42
6:AG:101:ILE:HG12	6:AG:105:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:60:GLU:HG3	8:AK:61:ARG:NH2	2.35	0.42
9:AM:69:GLN:O	9:AM:71:ILE:HG13	2.20	0.42
9:AM:96:GLU:HB2	9:AM:122:VAL:HG12	2.00	0.42
12:AP:115:MET:HE2	12:AP:115:MET:HB3	1.72	0.42
13:A0:34:ILE:HA	13:A0:34:ILE:HD12	1.61	0.42
14:AQ:41:ASP:OD1	14:AQ:41:ASP:C	2.62	0.42
21:AV:161:VAL:HG12	21:AV:162:GLU:CG	2.49	0.42
22:A3:82:ARG:HA	22:A3:83:PRO:HD3	1.69	0.42
23:AZ:18:ILE:HG22	23:AZ:20:ARG:HG3	2.00	0.42
1:BA:250:G:O6	1:BA:386:G:N1	2.36	0.42
1:BA:270(I):G:H2'	1:BA:270(J):G:H8	1.85	0.42
1:BA:883:G:C5	1:BA:884:C:N4	2.87	0.42
1:BA:1223:C:OP2	17:B2:88:ARG:NH2	2.41	0.42
1:BA:1638:C:H2'	1:BA:1639:U:O5'	2.20	0.42
1:BA:1833:U:C4	1:BA:1834:U:C5	3.07	0.42
1:BA:2157:G:O2'	1:BA:2158:A:O4'	2.27	0.42
1:BA:2289:G:H1'	1:BA:2346:A:H2	1.83	0.42
1:BA:2720:U:C2	1:BA:2873:A:C2	3.07	0.42
1:BA:2727:G:C2	1:BA:2728:U:C5	3.08	0.42
1:BA:2749:A:H5'	7:BH:62:LYS:O	2.20	0.42
1:BA:2772:C:H6	1:BA:2772:C:O5'	2.02	0.42
1:BA:2818:G:C2'	1:BA:2819:G:H5'	2.50	0.42
1:BA:2861:G:O2'	1:BA:2862:G:H5'	2.20	0.42
1:BA:2896:C:C4	1:BA:2897:U:C5	3.07	0.42
3:BD:31:LYS:HE3	3:BD:31:LYS:HB2	1.69	0.42
4:BE:64:LYS:HB3	4:BE:66:HIS:CD2	2.54	0.42
4:BE:120:TRP:CG	4:BE:155:LYS:HB3	2.55	0.42
5:BF:36:VAL:HG11	5:BF:183:VAL:HG11	2.00	0.42
6:BG:8:LYS:O	6:BG:12:TYR:HD2	2.02	0.42
6:BG:61:ALA:HA	6:BG:64:THR:HG22	2.01	0.42
7:BH:27:LYS:HA	7:BH:27:LYS:HD2	1.80	0.42
16:B1:19:LYS:O	16:B1:22:LYS:HG3	2.19	0.42
18:BS:17:VAL:HG12	18:BS:43:GLY:HA3	2.01	0.42
21:BV:3:TYR:O	21:BV:58:VAL:HB	2.19	0.42
21:BV:151:HIS:CD2	21:BV:151:HIS:N	2.85	0.42
28:B6:15:GLU:OE2	28:B6:41:PRO:CB	2.67	0.42
30:B8:60:LEU:C	30:B8:61:LEU:CG	2.89	0.42
31:CA:386:C:O2'	31:CA:387:U:H5'	2.19	0.42
31:CA:703:G:H4'	31:CA:704:A:O5'	2.19	0.42
31:CA:857:C:C4	31:CA:858:G:C5	3.07	0.42
31:CA:872:A:H2'	31:CA:872:A:N3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1014:A:H3'	31:CA:1015:A:C8	2.54	0.42
31:CA:1071:C:O2'	31:CA:1072:G:H5'	2.20	0.42
31:CA:1312:G:C2'	31:CA:1313:U:H5'	2.50	0.42
31:CA:1350:A:C6	31:CA:1351:U:N3	2.87	0.42
32:CE:80:ILE:CG2	32:CE:212:GLN:HA	2.44	0.42
33:CF:8:ILE:C	33:CF:10:PHE:N	2.77	0.42
37:CJ:104:LEU:HD13	37:CJ:104:LEU:HA	1.73	0.42
41:CN:62:GLN:O	41:CN:66:LEU:HG	2.18	0.42
42:CO:8:VAL:HG13	47:CT:29:HIS:HD2	1.82	0.42
44:CQ:8:GLU:O	44:CQ:10:ALA:N	2.53	0.42
47:CT:55:ASP:OD1	47:CT:79:SER:CB	2.67	0.42
47:CT:55:ASP:OD1	47:CT:79:SER:OG	2.38	0.42
48:CU:26:LEU:HD12	48:CU:29:PHE:CD2	2.55	0.42
53:CD:65:G:H2'	53:CD:66:C:H5'	2.02	0.42
31:DA:116:A:H61	31:DA:313:A:H1'	1.84	0.42
31:DA:418:C:H2'	31:DA:419:C:O4'	2.19	0.42
31:DA:429:U:H4'	31:DA:430:A:O5'	2.19	0.42
31:DA:457:C:H2'	31:DA:458:C:C6	2.54	0.42
31:DA:748:C:O5'	31:DA:748:C:C6	2.73	0.42
31:DA:782:A:H4'	31:DA:1514:C:O2'	2.19	0.42
31:DA:976:G:C8	31:DA:1358:U:C2	3.07	0.42
31:DA:1151:A:O2'	31:DA:1152:A:O4'	2.36	0.42
31:DA:1178:G:N7	31:DA:1180:A:OP2	2.52	0.42
35:DH:110:LEU:HB3	35:DH:115:VAL:CG2	2.50	0.42
43:DP:23:TYR:O	43:DP:66:LEU:HB2	2.19	0.42
49:DV:75:ALA:HA	49:DV:76:PRO:HD2	1.92	0.42
52:DB:5:A:N6	52:DB:79:U:H3	2.12	0.42
1:AA:39:C:O2'	1:AA:40:C:H5'	2.20	0.42
1:AA:153:C:O2'	1:AA:154:G:H5'	2.18	0.42
1:AA:287:C:C2	1:AA:288:C:C6	3.07	0.42
1:AA:520:G:H2'	1:AA:521:G:C8	2.55	0.42
1:AA:769:G:C2'	1:AA:770:G:H5'	2.49	0.42
1:AA:997:G:O2'	1:AA:998:C:H5'	2.19	0.42
1:AA:1142(A):A:C8	1:AA:1144:G:C5	3.08	0.42
1:AA:1474:C:H2'	1:AA:1475:G:H8	1.84	0.42
1:AA:1665:A:H2'	1:AA:1666:G:H5'	1.99	0.42
1:AA:2144:U:O2	1:AA:2148:G:C2	2.72	0.42
1:AA:2250:G:C6	12:AP:83:MET:CB	3.02	0.42
1:AA:2378:A:C5	1:AA:2379:G:H1'	2.54	0.42
1:AA:2740:A:H2'	1:AA:2741:A:C8	2.53	0.42
1:AA:2785:C:OP1	4:AE:41:LYS:CE	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2810:A:H61	1:AA:2891:G:C2'	2.32	0.42
1:AA:2836:U:H2'	1:AA:2837:G:C8	2.55	0.42
1:AA:2859:G:C6	1:AA:2860:A:N6	2.87	0.42
3:AD:79:VAL:HG12	3:AD:113:VAL:HA	2.00	0.42
4:AE:13:ARG:CG	4:AE:13:ARG:NH1	2.80	0.42
5:AF:64:ILE:C	5:AF:65:TRP:CD1	2.96	0.42
6:AG:145:THR:HG23	6:AG:148:MET:SD	2.59	0.42
7:AH:9:ILE:N	7:AH:9:ILE:CD1	2.78	0.42
8:AK:33:ARG:HB3	8:AK:35:LEU:HG	2.01	0.42
8:AK:83:ALA:O	8:AK:87:LYS:O	2.37	0.42
11:AO:63:PRO:HA	30:A8:13:ARG:CB	2.47	0.42
12:AP:137:TYR:CE2	21:AV:83:PRO:HG3	2.55	0.42
14:AQ:85:VAL:CG2	14:AQ:112:PHE:CZ	3.02	0.42
14:AQ:88:ASP:OD1	14:AQ:89:ARG:N	2.43	0.42
15:AR:61:PHE:CZ	15:AR:76:PHE:HB2	2.54	0.42
17:A2:19:LYS:HA	17:A2:94:LEU:O	2.19	0.42
20:AU:74:PRO:O	20:AU:80:GLY:HA2	2.18	0.42
21:AV:13:GLU:HB3	21:AV:18:LEU:HD11	2.00	0.42
21:AV:54:HIS:HE2	21:AV:123:ASP:CG	2.26	0.42
23:AZ:21:ARG:HD3	23:AZ:35:THR:CG2	2.49	0.42
27:A5:58:LEU:HD12	27:A5:58:LEU:O	2.20	0.42
28:A6:20:ASN:OD1	28:A6:22:ALA:N	2.53	0.42
29:A7:34:ARG:HD3	29:A7:42:LEU:HA	2.00	0.42
1:BA:311:A:O4'	1:BA:332:A:C8	2.73	0.42
1:BA:654(T):A:H2'	1:BA:654(U):A:O4'	2.19	0.42
1:BA:715:G:O2'	1:BA:716:A:H5'	2.19	0.42
1:BA:783:A:C4	1:BA:785:G:H1'	2.54	0.42
1:BA:914:C:N4	1:BA:915:C:C2	2.88	0.42
1:BA:1259:G:O2'	1:BA:1260:G:H5'	2.20	0.42
1:BA:1342:A:N1	1:BA:1397:U:C6	2.87	0.42
1:BA:1733:G:C2'	1:BA:1734:C:H5'	2.50	0.42
1:BA:2287:A:H2	1:BA:2346:A:N1	2.16	0.42
1:BA:2636:U:H2'	1:BA:2637:U:C6	2.54	0.42
1:BA:2663:G:C6	1:BA:2664:G:C4	3.07	0.42
1:BA:2693:A:H2'	1:BA:2694:G:C8	2.54	0.42
1:BA:2884:U:H2'	1:BA:2885:C:C5'	2.49	0.42
5:BF:9:ILE:HA	5:BF:13:SER:O	2.20	0.42
5:BF:38:ARG:HD3	5:BF:99:TYR:OH	2.19	0.42
7:BH:4:ILE:HB	7:BH:6:ARG:CZ	2.50	0.42
8:BK:101:LEU:O	8:BK:101:LEU:HG	2.18	0.42
9:BM:73:THR:HA	9:BM:83:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BO:46:LYS:O	11:BO:51:PHE:CB	2.68	0.42
11:BO:56:SER:O	11:BO:57:THR:C	2.62	0.42
12:BP:23:GLY:HA2	12:BP:24:GLY:HA3	1.75	0.42
13:B0:25:ALA:O	13:B0:26:LYS:C	2.63	0.42
14:BQ:110:LEU:HD22	14:BQ:112:PHE:N	2.34	0.42
16:B1:99:ALA:HB2	16:B1:106:PHE:CD1	2.54	0.42
28:B6:12:GLU:O	28:B6:52:VAL:HG12	2.20	0.42
29:B7:8:ASN:HD22	29:B7:11:LYS:H	1.61	0.42
29:B7:43:THR:HG23	29:B7:44:PRO:HD2	2.01	0.42
31:CA:309:G:H1'	31:CA:608:A:C2	2.55	0.42
31:CA:430:A:C2'	31:CA:431:A:H5'	2.49	0.42
31:CA:659:U:C2'	31:CA:660:G:H5'	2.49	0.42
31:CA:691:G:H1'	31:CA:696:A:H61	1.85	0.42
31:CA:706:A:C2'	31:CA:707:C:H5'	2.50	0.42
31:CA:781:A:C3'	31:CA:782:A:H5'	2.49	0.42
31:CA:791:G:N2	31:CA:1497:G:O3'	2.49	0.42
31:CA:1124:G:H3'	31:CA:1145:C:N4	2.21	0.42
32:CE:28:PHE:CD1	32:CE:190:THR:HA	2.54	0.42
35:CH:146:ALA:C	35:CH:148:VAL:N	2.75	0.42
41:CN:82:VAL:HB	41:CN:108:ILE:HD13	2.00	0.42
42:CO:99:ARG:HE	42:CO:99:ARG:HB3	1.65	0.42
53:CD:19:G:H4'	53:CD:61:U:C2	2.55	0.42
31:DA:407:G:C2	31:DA:436:C:N3	2.87	0.42
31:DA:616:G:H2'	31:DA:617:G:C8	2.53	0.42
31:DA:619:U:C2	34:DG:135:LEU:CD2	3.02	0.42
31:DA:635:G:C6	31:DA:636:U:C4	3.07	0.42
31:DA:751:U:H1'	45:DR:23:GLY:O	2.18	0.42
31:DA:1219:U:OP1	44:DQ:19:ARG:CZ	2.67	0.42
31:DA:1236:A:O2'	31:DA:1304:G:H4'	2.19	0.42
31:DA:1386:G:N3	31:DA:1387:G:C8	2.88	0.42
31:DA:1520:G:H2'	31:DA:1521:G:C8	2.55	0.42
33:DF:70:VAL:C	33:DF:106:VAL:HG23	2.44	0.42
34:DG:201:GLN:HE21	34:DG:204:ILE:HD12	1.84	0.42
35:DH:18:ARG:HH11	35:DH:25:ARG:HB3	1.83	0.42
37:DJ:49:ILE:O	37:DJ:49:ILE:HG22	2.18	0.42
37:DJ:124:LEU:HD23	37:DJ:124:LEU:HA	1.80	0.42
38:DK:1:MET:HE2	38:DK:2:LEU:N	2.35	0.42
40:DM:4:ILE:HB	40:DM:74:ILE:CD1	2.49	0.42
40:DM:13:HIS:HD2	40:DM:13:HIS:O	2.02	0.42
40:DM:22:LYS:HD2	40:DM:22:LYS:C	2.45	0.42
40:DM:42:THR:HG23	40:DM:67:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DO:32:PHE:HB3	42:DO:84:LEU:HD22	2.00	0.42
43:DP:45:VAL:O	43:DP:48:LEU:HD22	2.19	0.42
43:DP:56:LEU:HD23	43:DP:56:LEU:HA	1.81	0.42
52:DB:37:G:C5	52:DB:38:G:N7	2.88	0.42
53:DC:19:G:C6	53:DC:58:A:C6	3.07	0.42
54:D1:19:U:OP2	54:D1:19:U:H6	2.02	0.42
1:AA:165:U:H2'	1:AA:171:G:O4'	2.19	0.42
1:AA:250:G:OP2	30:A8:13:ARG:NH2	2.52	0.42
1:AA:319:C:N4	1:AA:320:A:C6	2.87	0.42
1:AA:325:G:C2'	1:AA:326:G:H5'	2.49	0.42
1:AA:329:G:OP1	1:AA:329:G:H8	2.02	0.42
1:AA:336:C:N3	1:AA:337:C:C5	2.87	0.42
1:AA:483:A:H5''	20:AU:49:VAL:HG22	2.00	0.42
1:AA:633:A:C3'	1:AA:633:A:C8	3.03	0.42
1:AA:858:U:O2	1:AA:2268:A:H2'	2.19	0.42
1:AA:879:G:N2	1:AA:898:C:N3	2.62	0.42
1:AA:906:G:HO2'	12:AP:67:ARG:NH2	2.09	0.42
1:AA:957:A:N6	1:AA:959:A:C2	2.88	0.42
1:AA:1028:A:N3	1:AA:2486:G:O2'	2.44	0.42
1:AA:1344:G:C4'	1:AA:1384:A:C5	3.03	0.42
1:AA:1418:G:H8	1:AA:1418:G:O5'	2.02	0.42
1:AA:1509:C:N4	1:AA:1511:A:N6	2.68	0.42
1:AA:1785:A:H4'	1:AA:1982:C:O2'	2.19	0.42
1:AA:2063:C:O2	1:AA:2450:A:N1	2.53	0.42
1:AA:2146:C:H4'	1:AA:2147:G:C5	2.53	0.42
1:AA:2287:A:N3	1:AA:2289:G:C8	2.87	0.42
1:AA:2346:A:O3'	28:A6:39:TYR:OH	2.38	0.42
1:AA:2443:C:H2'	1:AA:2444:G:H8	1.84	0.42
2:AB:7:G:C2'	2:AB:8:U:H5'	2.50	0.42
2:AB:59:A:C8	2:AB:60:C:C5	3.07	0.42
2:AB:94:C:C2'	2:AB:95:U:H5'	2.50	0.42
12:AP:16:ARG:HE	12:AP:16:ARG:HB3	1.72	0.42
12:AP:34:LEU:HD23	12:AP:104:PHE:HD1	1.84	0.42
12:AP:109:VAL:CG1	12:AP:113:GLN:HB3	2.49	0.42
19:AT:41:ASN:HD22	19:AT:41:ASN:H	1.66	0.42
24:AW:53:LEU:O	24:AW:57:ILE:HG13	2.19	0.42
26:A4:54:GLY:O	26:A4:55:ARG:C	2.62	0.42
29:A7:9:ARG:HH21	29:A7:48:LYS:HB2	1.84	0.42
29:A7:10:ARG:NH1	29:A7:14:LYS:HE2	2.35	0.42
1:BA:147:U:C2'	1:BA:148:C:H5''	2.49	0.42
1:BA:218:A:H2	1:BA:235:U:H4'	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:234:C:C2	1:BA:235:U:C5	3.07	0.42
1:BA:1241:A:O2'	1:BA:1242:A:H5'	2.19	0.42
1:BA:1435:G:H2'	1:BA:1436:G:O4'	2.20	0.42
1:BA:1448:G:N2	1:BA:1449:A:N6	2.67	0.42
1:BA:1664:A:H8	1:BA:1664:A:O5'	2.02	0.42
1:BA:1746:G:O2'	1:BA:1747:G:H5'	2.19	0.42
1:BA:1788:C:C2	1:BA:1789:A:C8	3.08	0.42
1:BA:2103:C:O2'	1:BA:2104:G:H5'	2.19	0.42
1:BA:2189:U:H2'	1:BA:2190:G:H5'	2.01	0.42
1:BA:2420:C:H6	1:BA:2420:C:O5'	2.02	0.42
1:BA:2467:C:N4	1:BA:2468:G:C2	2.87	0.42
1:BA:2469:A:C2	1:BA:2470:G:C5	3.07	0.42
1:BA:2786:U:O2'	4:BE:64:LYS:HA	2.20	0.42
1:BA:2840:C:O3'	13:B0:53:HIS:NE2	2.52	0.42
1:BA:2881:C:C2	1:BA:2882:A:C8	3.06	0.42
3:BD:35:LYS:CE	3:BD:65:ILE:HA	2.49	0.42
3:BD:209:ALA:O	3:BD:212:SER:HB2	2.19	0.42
5:BF:5:ALA:O	5:BF:18:ARG:O	2.37	0.42
6:BG:7:LEU:HD22	6:BG:100:TRP:HE3	1.85	0.42
8:BK:110:ASP:OD2	8:BK:130:TYR:CE1	2.65	0.42
11:BO:128:HIS:HA	11:BO:147:LEU:CA	2.46	0.42
12:BP:61:GLY:HA2	12:BP:62:GLY:HA3	1.71	0.42
13:B0:29:LEU:HD12	13:B0:29:LEU:HA	1.69	0.42
14:BQ:85:VAL:HG23	14:BQ:112:PHE:HZ	1.83	0.42
16:B1:93:LYS:HA	16:B1:96:ALA:CB	2.49	0.42
17:B2:71:LEU:C	17:B2:72:VAL:CG2	2.91	0.42
17:B2:82:ARG:HH11	17:B2:82:ARG:HG2	1.81	0.42
17:B2:85:LYS:CG	17:B2:87:HIS:H	2.32	0.42
17:B2:91:TYR:HD1	17:B2:91:TYR:HA	1.72	0.42
18:BS:14:PRO:O	18:BS:18:ARG:HB2	2.19	0.42
18:BS:17:VAL:C	18:BS:19:LEU:N	2.74	0.42
26:B4:8:LYS:HD2	26:B4:8:LYS:HA	1.79	0.42
27:B5:26:THR:HA	27:B5:27:PRO:HD3	1.91	0.42
29:B7:43:THR:HG22	29:B7:44:PRO:O	2.20	0.42
31:CA:243:A:H4'	31:CA:244:U:C5'	2.47	0.42
31:CA:721:G:C6	31:CA:733:A:C2	3.08	0.42
31:CA:763:G:C4	31:CA:764:C:C5	3.07	0.42
31:CA:1004:A:O5'	31:CA:1025:U:O4	2.35	0.42
31:CA:1023:G:C6	31:CA:1024:G:C5	3.07	0.42
31:CA:1125:U:H3	40:CM:5:ARG:NH1	2.17	0.42
31:CA:1152:A:C4	31:CA:1153:C:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1152:A:O3'	40:CM:13:HIS:NE2	2.52	0.42
32:CE:25:ASN:O	32:CE:27:LYS:N	2.52	0.42
32:CE:178:ARG:NH2	38:CK:74:PRO:HG3	2.34	0.42
33:CF:58:GLU:CB	33:CF:65:ALA:HB3	2.50	0.42
33:CF:92:ALA:HB2	33:CF:99:VAL:CG2	2.46	0.42
35:CH:100:VAL:HG23	35:CH:116:THR:O	2.19	0.42
36:CI:72:VAL:HG13	36:CI:73:ASN:H	1.84	0.42
41:CN:77:MET:HE3	41:CN:80:VAL:CG1	2.45	0.42
43:CP:105:THR:O	43:CP:107:ALA:N	2.51	0.42
53:CC:62:C:H2'	53:CC:63:C:C6	2.42	0.42
31:DA:38:G:H4'	31:DA:547:A:N6	2.35	0.42
31:DA:179:A:C4	31:DA:180:U:C5	3.08	0.42
31:DA:408:A:H2'	31:DA:409:G:C8	2.55	0.42
31:DA:501:C:H2'	31:DA:502:G:H8	1.84	0.42
31:DA:663:A:O2'	31:DA:664:G:H5'	2.20	0.42
31:DA:750:G:O3'	45:DR:18:PHE:HZ	2.03	0.42
31:DA:926:G:C6	31:DA:1505:G:C5	3.07	0.42
31:DA:1037:C:H3'	31:DA:1037:C:H6	1.83	0.42
31:DA:1129:C:C4	31:DA:1139:G:N1	2.87	0.42
31:DA:1131:G:C8	31:DA:1132:C:C5	3.06	0.42
31:DA:1187:G:H2'	31:DA:1188:A:C8	2.55	0.42
31:DA:1330:U:O2	31:DA:1330:U:H2'	2.18	0.42
34:DG:150:GLU:O	34:DG:152:SER:N	2.49	0.42
34:DG:173:TRP:CD2	34:DG:189:PRO:HB3	2.54	0.42
38:DK:123:GLU:O	38:DK:127:LEU:HD23	2.20	0.42
40:DM:50:ILE:HD12	44:DQ:41:ARG:NH1	2.35	0.42
44:DQ:2:ALA:O	44:DQ:6:LEU:HD12	2.19	0.42
44:DQ:15:LYS:NZ	44:DQ:15:LYS:CB	2.82	0.42
48:DU:29:PHE:CD1	48:DU:39:VAL:CG1	3.00	0.42
50:DW:96:GLY:O	50:DW:97:ALA:HB3	2.19	0.42
52:DB:13:G:N2	52:DB:14:A:C5	2.88	0.42
53:DC:14:A:C2	53:DC:15:G:H1'	2.53	0.42
53:DD:39:A:H2'	53:DD:40:C:C5'	2.48	0.42
1:AA:31:C:H42	1:AA:474:G:H1	1.67	0.42
1:AA:456:C:C5	19:AT:69:TYR:CZ	3.08	0.42
1:AA:828:U:H3'	1:AA:828:U:O2	2.20	0.42
1:AA:1063:G:C4	1:AA:1064:C:C6	3.08	0.42
1:AA:1400:G:C6	1:AA:1401:G:C6	3.08	0.42
1:AA:1535:U:H2'	1:AA:1536:A:H8	1.85	0.42
1:AA:1579:A:H2'	1:AA:1580:A:O4'	2.19	0.42
1:AA:2112:G:N2	53:CD:57:C:N3	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2114:A:OP2	1:AA:2117:A:OP1	2.37	0.42
1:AA:2114:A:N6	1:AA:2115:G:N1	2.68	0.42
1:AA:2842:G:O2'	1:AA:2843:G:H5'	2.20	0.42
2:AB:82:G:C2'	2:AB:83:G:H5'	2.50	0.42
3:AD:45:ASN:OD1	3:AD:45:ASN:C	2.62	0.42
3:AD:45:ASN:CG	3:AD:46:GLN:N	2.76	0.42
3:AD:166:GLN:HE21	3:AD:166:GLN:N	2.17	0.42
8:AK:110:ASP:HB3	8:AK:112:LYS:N	2.34	0.42
12:AP:43:THR:OG1	12:AP:46:GLN:CG	2.68	0.42
13:A0:30:THR:HG22	13:A0:31:HIS:N	2.33	0.42
28:A6:11:LEU:HD11	28:A6:51:GLU:CG	2.50	0.42
30:A8:53:PRO:O	30:A8:57:ARG:N	2.37	0.42
1:BA:96:G:C2	1:BA:97:C:C6	3.07	0.42
1:BA:389:G:C2	11:BO:71:VAL:CG1	3.00	0.42
1:BA:407:G:H2'	1:BA:408:G:C8	2.55	0.42
1:BA:668:G:C2'	1:BA:669:G:OP1	2.68	0.42
1:BA:817:C:H2'	1:BA:818:G:O4'	2.19	0.42
1:BA:1009:A:OP2	1:BA:1010:A:OP2	2.38	0.42
1:BA:1312:U:H4'	1:BA:1313:U:O5'	2.20	0.42
1:BA:1348:G:C6	1:BA:1349:A:N1	2.88	0.42
1:BA:1499:C:H2'	1:BA:1500:G:H8	1.83	0.42
1:BA:1677:A:H2'	1:BA:1678:G:H8	1.83	0.42
1:BA:1784:A:H4'	1:BA:1785:A:H5''	2.02	0.42
1:BA:1786:A:H4'	1:BA:1787:A:OP2	2.19	0.42
1:BA:2115:G:N2	1:BA:2172:U:N3	2.67	0.42
1:BA:2124:G:C2'	1:BA:2125:G:H5'	2.49	0.42
1:BA:2395:C:H2'	1:BA:2396:G:O4'	2.19	0.42
1:BA:2402:C:OP1	1:BA:2402:C:H4'	2.20	0.42
1:BA:2483:C:O2	1:BA:2483:C:H2'	2.20	0.42
1:BA:2584:U:C5'	1:BA:2585:U:OP2	2.67	0.42
1:BA:2688:U:H1'	1:BA:2721:A:H61	1.85	0.42
1:BA:2869:G:H2'	1:BA:2870:C:O4'	2.19	0.42
2:BB:111:U:H2'	2:BB:112:G:H8	1.81	0.42
3:BD:28:GLU:CB	3:BD:29:PRO:CD	2.94	0.42
5:BF:129:PHE:HA	5:BF:142:TRP:CD1	2.55	0.42
6:BG:4:ASP:O	6:BG:5:VAL:HB	2.19	0.42
11:BO:15:ARG:C	11:BO:16:ARG:O	2.63	0.42
11:BO:123:LEU:HD23	11:BO:123:LEU:H	1.84	0.42
17:B2:70:ILE:HG13	17:B2:86:GLY:O	2.20	0.42
20:BU:54:LYS:O	20:BU:55:TYR:CG	2.72	0.42
21:BV:168:GLU:HG3	21:BV:169:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B3:77:ARG:C	22:B3:78:TYR:CD1	2.98	0.42
28:B6:35:GLU:O	28:B6:36:LEU:CB	2.65	0.42
31:CA:16:A:C5	31:CA:17:U:C5	3.08	0.42
31:CA:380:G:N1	31:CA:384:G:C6	2.88	0.42
31:CA:692:U:O2	31:CA:695:A:C8	2.72	0.42
31:CA:716:A:N3	41:CN:117:ASN:O	2.53	0.42
31:CA:1334:G:H5''	31:CA:1335:C:OP2	2.20	0.42
31:CA:1531:A:H5'	31:CA:1532:U:OP2	2.19	0.42
32:CE:134:GLU:O	32:CE:137:ARG:HB3	2.20	0.42
32:CE:162:ILE:HD11	32:CE:184:VAL:HG13	2.00	0.42
33:CF:22:TRP:CH2	33:CF:32:LEU:HB3	2.55	0.42
35:CH:82:VAL:CG1	35:CH:83:GLU:N	2.82	0.42
37:CJ:18:TYR:CD2	37:CJ:59:LEU:HB2	2.53	0.42
40:CM:78:ASN:O	40:CM:81:THR:N	2.40	0.42
48:CU:43:PHE:O	48:CU:51:LEU:HG	2.20	0.42
53:CC:59:A:C6	53:CC:62:C:C2	3.07	0.42
53:CD:7:G:N7	53:CD:50:G:C8	2.88	0.42
31:DA:156:G:N2	31:DA:166:G:C4	2.88	0.42
31:DA:673:G:H5''	36:DI:87:ARG:CZ	2.49	0.42
31:DA:861:G:C5	31:DA:862:C:C5	3.08	0.42
31:DA:951:G:C6	31:DA:1231:G:C6	3.08	0.42
31:DA:956:U:H5'	49:DV:83:HIS:HB3	2.01	0.42
31:DA:1015:A:C5	31:DA:1016:A:C5	3.07	0.42
31:DA:1071:C:O2'	31:DA:1072:G:H5'	2.19	0.42
31:DA:1112:C:C4	33:DF:178:LEU:HD23	2.55	0.42
32:DE:147:LYS:HA	32:DE:147:LYS:HZ3	1.85	0.42
33:DF:146:ALA:HB2	33:DF:204:LEU:HD23	2.02	0.42
36:DI:25:ILE:CD1	36:DI:82:ARG:HD2	2.50	0.42
36:DI:61:LEU:HD12	36:DI:61:LEU:N	2.35	0.42
39:DL:113:LYS:HD2	39:DL:113:LYS:N	2.35	0.42
40:DM:54:PHE:CE2	40:DM:55:LYS:HD2	2.54	0.42
47:DT:75:ARG:NH1	47:DT:76:LEU:O	2.52	0.42
49:DV:10:PHE:HD1	49:DV:10:PHE:HA	1.78	0.42
49:DV:27:GLU:HG2	49:DV:47:HIS:NE2	2.34	0.42
50:DW:67:ALA:O	50:DW:73:HIS:CE1	2.72	0.42
52:DB:77:C:C4	52:DB:78:C:C5	3.08	0.42
1:AA:84:A:N1	1:AA:98:G:O2'	2.50	0.42
1:AA:1612:C:H2'	1:AA:1613:G:O5'	2.20	0.42
1:AA:1654:A:OP2	13:A0:2:ARG:HD3	2.19	0.42
1:AA:1918:A:O2'	1:AA:1920:C:N4	2.52	0.42
1:AA:1949:G:C6	1:AA:1950:G:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2163:C:C5	1:AA:2164:C:C4	3.08	0.42
1:AA:2199:A:OP2	1:AA:2205:C:C5	2.71	0.42
1:AA:2404:C:C2'	1:AA:2405:G:H5'	2.50	0.42
1:AA:2531:A:H5'	7:AH:157:TYR:CZ	2.55	0.42
1:AA:2726:U:H6	10:AN:67:LYS:HZ3	1.66	0.42
1:AA:2848:G:N2	1:AA:2867:G:C4	2.88	0.42
2:AB:13:A:O2'	2:AB:15:A:O5'	2.37	0.42
3:AD:136:ILE:CG2	3:AD:137:PRO:HD2	2.47	0.42
5:AF:34:TRP:CZ3	5:AF:35:GLU:HG2	2.54	0.42
6:AG:56:ALA:HB2	6:AG:153:ARG:NE	2.34	0.42
6:AG:80:PHE:O	6:AG:80:PHE:HD1	1.98	0.42
8:AK:77:LEU:HD12	8:AK:77:LEU:C	2.44	0.42
9:AM:67:LEU:HD23	9:AM:88:GLU:HG2	2.02	0.42
11:AO:136:GLU:O	11:AO:137:LYS:C	2.61	0.42
14:AQ:62:LYS:HB2	14:AQ:97:ARG:CD	2.50	0.42
16:A1:92:ARG:NH2	17:A2:11:GLN:H	2.17	0.42
17:A2:64:HIS:CG	17:A2:92:THR:HG22	2.54	0.42
18:AS:29:LEU:HD21	18:AS:33:ARG:NH2	2.32	0.42
22:A3:36:ILE:HD11	22:A3:39:ARG:HG2	2.02	0.42
23:AZ:65:SER:OG	23:AZ:66:HIS:HD2	2.02	0.42
23:AZ:91:LYS:C	23:AZ:93:GLU:N	2.76	0.42
26:A4:53:GLU:O	26:A4:54:GLY:C	2.60	0.42
28:A6:14:THR:HG21	28:A6:19:ARG:HH21	1.84	0.42
1:BA:28:A:C2	1:BA:513:A:C8	3.08	0.42
1:BA:331:A:C4	1:BA:1209:G:C6	3.07	0.42
1:BA:384:U:H2'	1:BA:385:C:C6	2.53	0.42
1:BA:439:G:C2	1:BA:440:G:C4	3.07	0.42
1:BA:467:G:H2'	1:BA:468:G:O4'	2.19	0.42
1:BA:535:C:HO2'	1:BA:536:A:H5'	1.83	0.42
1:BA:673:C:C5'	1:BA:673:C:H6	2.26	0.42
1:BA:778:G:H2'	1:BA:779:U:C6	2.55	0.42
1:BA:869:G:C2'	1:BA:870:A:H5'	2.50	0.42
1:BA:1069:A:C5	1:BA:1073:A:C8	3.08	0.42
1:BA:1196:C:O2'	1:BA:1228:G:O2'	2.26	0.42
1:BA:1453:A:O2'	1:BA:1454:U:H2'	2.19	0.42
1:BA:1499:C:O2'	1:BA:1500:G:H5'	2.19	0.42
1:BA:1641:A:H2'	1:BA:1642:G:O4'	2.20	0.42
1:BA:1879:C:H2'	1:BA:1880:C:O4'	2.19	0.42
1:BA:2059:A:H2	1:BA:2062:A:N6	2.18	0.42
1:BA:2251:G:C8	1:BA:2450:A:H4'	2.55	0.42
1:BA:2469:A:H5'	1:BA:2470:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2795:G:H1'	1:BA:2802:G:C2	2.55	0.42
1:BA:2841:C:C2	1:BA:2877:G:N2	2.87	0.42
2:BB:23:G:N1	2:BB:24:G:O6	2.52	0.42
3:BD:183:ARG:CG	3:BD:184:LYS:N	2.82	0.42
5:BF:123:LEU:HD11	5:BF:125:LEU:HD22	2.02	0.42
6:BG:6:ALA:C	6:BG:8:LYS:N	2.75	0.42
11:BO:37:GLY:O	11:BO:40:SER:OG	2.37	0.42
12:BP:2:LEU:HG	12:BP:69:PHE:CE1	2.54	0.42
12:BP:43:THR:O	12:BP:46:GLN:HB2	2.19	0.42
15:BR:64:ARG:HB3	15:BR:73:GLU:HG2	2.00	0.42
16:B1:64:ARG:O	16:B1:65:ILE:C	2.63	0.42
18:BS:61:ASN:HD22	18:BS:61:ASN:HA	1.60	0.42
20:BU:17:SER:OG	20:BU:18:GLY:N	2.53	0.42
22:B3:49:LYS:HB2	22:B3:49:LYS:HE3	1.87	0.42
26:B4:16:CYS:HB3	26:B4:20:ASN:N	2.35	0.42
28:B6:47:THR:O	28:B6:49:HIS:ND1	2.39	0.42
31:CA:51:A:C6	31:CA:353:A:C2	3.08	0.42
31:CA:129:U:O2'	31:CA:130:A:H2'	2.19	0.42
31:CA:332:G:H2'	31:CA:333:G:H8	1.84	0.42
31:CA:406:G:N2	31:CA:437:U:O2	2.53	0.42
31:CA:509:A:O2'	31:CA:510:A:P	2.78	0.42
31:CA:913:A:O2'	31:CA:914:A:OP2	2.30	0.42
31:CA:914:A:C5	31:CA:915:A:N7	2.88	0.42
31:CA:975:A:C5'	31:CA:976:G:H5''	2.49	0.42
31:CA:1037:C:H2'	31:CA:1038:C:C5	2.55	0.42
31:CA:1142:G:H2'	31:CA:1143:G:O4'	2.19	0.42
31:CA:1345:U:H4'	31:CA:1346:A:H5'	2.01	0.42
31:CA:1387:G:C6	31:CA:1388:C:N4	2.87	0.42
32:CE:81:VAL:O	32:CE:82:ARG:C	2.61	0.42
33:CF:92:ALA:O	33:CF:95:THR:O	2.38	0.42
34:CG:25:ARG:CZ	34:CG:30:LYS:HG3	2.49	0.42
35:CH:31:LEU:HD23	35:CH:45:PHE:HD1	1.84	0.42
35:CH:153:LYS:HD3	35:CH:154:GLY:H	1.85	0.42
37:CJ:59:LEU:HD23	37:CJ:59:LEU:C	2.45	0.42
39:CL:69:GLY:O	39:CL:70:LYS:C	2.63	0.42
43:CP:82:MET:O	43:CP:84:ILE:N	2.53	0.42
43:CP:104:ARG:O	43:CP:105:THR:HG22	2.18	0.42
44:CQ:3:ARG:C	44:CQ:3:ARG:CD	2.93	0.42
44:CQ:37:PHE:CE1	44:CQ:53:LEU:HD13	2.54	0.42
49:CV:43:GLU:H	49:CV:43:GLU:HG2	1.46	0.42
53:CD:68:C:N3	53:CD:69:C:N4	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:505:G:OP2	31:DA:534:U:H2'	2.20	0.42
31:DA:664:G:H2'	31:DA:666:G:OP1	2.19	0.42
31:DA:824:C:H2'	31:DA:825:G:H8	1.84	0.42
31:DA:872:A:C4	31:DA:874:G:N7	2.87	0.42
31:DA:946:A:H2'	31:DA:947:G:H8	1.82	0.42
31:DA:978:A:H5'	31:DA:979:C:OP2	2.19	0.42
31:DA:1126:U:H1'	31:DA:1127:G:P	2.59	0.42
31:DA:1128:C:C5'	39:DL:16:ARG:HH22	2.22	0.42
31:DA:1251:A:H2'	31:DA:1252:A:O4'	2.20	0.42
32:DE:8:LYS:HD2	32:DE:11:LEU:CB	2.50	0.42
35:DH:60:TYR:CB	35:DH:64:ARG:HH21	2.32	0.42
39:DL:5:TYR:HD2	39:DL:18:PHE:CD2	2.36	0.42
39:DL:48:GLU:N	39:DL:49:PRO:CD	2.82	0.42
42:DO:101:VAL:HG12	42:DO:104:VAL:HG23	2.01	0.42
52:DB:1:G:H2'	52:DB:2:C:C6	2.54	0.42
52:DB:23:A:H3'	52:DB:24:C:C5	2.55	0.42
53:DC:56:U:O2	53:DC:58:A:C8	2.73	0.42
1:AA:482:A:H4'	20:AU:47:LYS:HD3	2.02	0.42
1:AA:631:A:N3	1:AA:2415:G:O2'	2.43	0.42
1:AA:728:G:H4'	3:AD:13:ARG:HD3	2.02	0.42
1:AA:813:U:H2'	1:AA:814:C:C6	2.55	0.42
1:AA:821:A:H2'	1:AA:946:G:H5''	2.02	0.42
1:AA:857:C:OP2	22:A3:77:ARG:NH2	2.53	0.42
1:AA:960:A:H61	12:AP:83:MET:CE	2.12	0.42
1:AA:1021:A:C8	1:AA:1022:G:H5''	2.55	0.42
1:AA:1389:G:C2	1:AA:1399:C:O2	2.73	0.42
1:AA:1484:G:C2	1:AA:1506:C:C2	3.08	0.42
1:AA:1535:U:N3	1:AA:1537:C:O4'	2.52	0.42
1:AA:1669:A:H2'	1:AA:1670:C:H5'	2.00	0.42
1:AA:2123:G:N3	1:AA:2176:A:C2	2.88	0.42
1:AA:2260:C:O2'	1:AA:2261:C:H5'	2.20	0.42
1:AA:2261:C:C2	1:AA:2280:G:C2	3.08	0.42
1:AA:2401:U:O3'	1:AA:2402:C:O4'	2.38	0.42
1:AA:2768:C:C4	1:AA:2769:C:C5	3.08	0.42
2:AB:99:A:C5	2:AB:100:G:N7	2.88	0.42
3:AD:35:LYS:CD	3:AD:63:ARG:C	2.91	0.42
7:AH:4:ILE:HG12	7:AH:4:ILE:O	2.19	0.42
7:AH:38:SER:HA	7:AH:39:PRO:HD3	1.93	0.42
7:AH:153:LYS:HB3	7:AH:154:PRO:HD3	2.01	0.42
8:AK:5:LEU:HD13	8:AK:9:LEU:HD23	2.02	0.42
9:AM:134:ARG:N	9:AM:135:PRO:HD3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:70:GLN:HB3	11:AO:71:VAL:H	1.74	0.42
11:AO:135:LEU:O	11:AO:138:LEU:HD12	2.20	0.42
12:AP:63:LYS:CD	12:AP:65:PHE:CE1	3.02	0.42
12:AP:77:LYS:O	12:AP:79:LEU:N	2.53	0.42
14:AQ:11:LYS:O	14:AQ:15:ARG:HB2	2.19	0.42
19:AT:35:THR:HG23	19:AT:38:GLU:H	1.85	0.42
19:AT:66:LEU:C	19:AT:67:GLY:O	2.62	0.42
26:A4:13:ARG:H	26:A4:30:GLU:H	1.67	0.42
27:A5:6:VAL:HG13	27:A5:7:PRO:CD	2.50	0.42
28:A6:34:LEU:H	28:A6:34:LEU:HD22	1.85	0.42
30:A8:53:PRO:HA	30:A8:56:GLU:HB2	2.02	0.42
1:BA:11:G:H2'	1:BA:12:U:H5'	2.00	0.42
1:BA:110:G:C4	1:BA:111:A:C8	3.08	0.42
1:BA:245:G:O3'	11:BO:70:GLN:O	2.37	0.42
1:BA:527:C:H4'	1:BA:528:A:O5'	2.20	0.42
1:BA:607:U:OP1	5:BF:103:LYS:N	2.33	0.42
1:BA:848:G:H1'	1:BA:933:A:C8	2.54	0.42
1:BA:856:C:O2'	1:BA:857:C:O5'	2.35	0.42
1:BA:888:C:C4'	1:BA:889:C:OP2	2.68	0.42
1:BA:892:G:H8	1:BA:892:G:O5'	2.02	0.42
1:BA:1543:A:OP1	1:BA:1543:A:C4'	2.68	0.42
1:BA:1899:G:O2'	1:BA:1900:A:OP2	2.38	0.42
1:BA:2261:C:H1'	1:BA:2388:A:N3	2.35	0.42
1:BA:2746:U:C6	1:BA:2746:U:H3'	2.54	0.42
1:BA:2768:C:O2'	9:BM:89:LYS:HE2	2.19	0.42
3:BD:35:LYS:HE3	3:BD:65:ILE:CA	2.49	0.42
4:BE:181:LEU:HD12	4:BE:181:LEU:HA	1.87	0.42
5:BF:116:ASP:O	5:BF:120:GLU:HG2	2.20	0.42
6:BG:86:MET:O	6:BG:88:ILE:HG22	2.19	0.42
8:BK:3:VAL:HG12	8:BK:38:LEU:HA	2.01	0.42
8:BK:78:THR:HB	8:BK:104:GLN:NE2	2.26	0.42
8:BK:84:GLY:C	8:BK:86:THR:H	2.28	0.42
9:BM:33:LEU:CD1	9:BM:38:HIS:CD2	3.03	0.42
9:BM:133:GLN:CG	9:BM:135:PRO:HD3	2.50	0.42
11:BO:147:LEU:HD22	11:BO:148:LEU:N	2.34	0.42
14:BQ:10:ARG:O	14:BQ:14:VAL:CG1	2.66	0.42
18:BS:11:ARG:CZ	18:BS:98:LYS:HB3	2.50	0.42
20:BU:19:LYS:HE3	20:BU:71:LYS:HZ2	1.84	0.42
21:BV:157:LEU:HD21	21:BV:163:LEU:HD23	2.02	0.42
25:BX:4:LEU:O	25:BX:36:VAL:HA	2.20	0.42
26:B4:23:GLU:HG3	26:B4:24:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:3:LYS:CG	27:B5:4:HIS:H	2.29	0.42
31:CA:102:G:C6	31:CA:103:C:C5	3.08	0.42
31:CA:545:C:O2'	31:CA:549:C:H5''	2.20	0.42
31:CA:687:A:C2	31:CA:704:A:C6	3.08	0.42
31:CA:716:A:C6	31:CA:717:C:C4	3.08	0.42
31:CA:793:U:H3'	31:CA:794:A:C5'	2.41	0.42
31:CA:880:C:O2'	31:CA:881:G:H5'	2.19	0.42
31:CA:918:A:C2	31:CA:919:A:C4	3.06	0.42
31:CA:1522:U:H2'	31:CA:1523:G:H8	1.85	0.42
37:CJ:15:ASP:HB3	37:CJ:20:ASP:H	1.84	0.42
38:CK:39:LEU:HB3	38:CK:45:ILE:HG12	2.02	0.42
38:CK:53:VAL:HB	38:CK:58:TYR:CD1	2.53	0.42
38:CK:75:ARG:HA	38:CK:76:PRO:HD3	1.78	0.42
42:CO:25:LYS:O	42:CO:25:LYS:HD3	2.20	0.42
44:CQ:2:ALA:HB1	44:CQ:6:LEU:HD11	2.02	0.42
45:CR:81:LEU:O	45:CR:85:LEU:HB2	2.20	0.42
49:CV:44:MET:O	49:CV:47:HIS:HB2	2.19	0.42
53:CC:20:G:C5	53:CC:58:A:H2	2.38	0.42
31:DA:66:G:H2'	31:DA:67:C:H5'	2.01	0.42
31:DA:373:A:C4	31:DA:374:A:C8	3.07	0.42
31:DA:493:G:H8	31:DA:493:G:O5'	2.03	0.42
31:DA:737:A:H2'	31:DA:738:C:C6	2.55	0.42
31:DA:818:G:N1	31:DA:820:U:O2'	2.52	0.42
31:DA:987:G:H1	31:DA:1218:C:H42	1.67	0.42
31:DA:1145:C:O2	31:DA:1145:C:C2'	2.68	0.42
31:DA:1306:A:H2'	31:DA:1307:U:C6	2.55	0.42
32:DE:37:ASN:O	32:DE:39:ILE:HG13	2.20	0.42
32:DE:97:TRP:HZ2	32:DE:102:LEU:CD1	2.33	0.42
32:DE:98:LEU:O	32:DE:101:MET:CG	2.67	0.42
32:DE:152:PHE:O	32:DE:153:ARG:C	2.63	0.42
35:DH:101:ILE:O	35:DH:120:THR:OG1	2.38	0.42
36:DI:45:LEU:CD2	36:DI:57:GLN:NE2	2.83	0.42
42:DO:85:ILE:HD12	42:DO:85:ILE:HA	1.76	0.42
48:DU:23:LYS:HA	48:DU:26:LEU:HD11	2.02	0.42
53:DD:31:G:H1	53:DD:41:C:H42	1.68	0.42
1:AA:49:A:N7	1:AA:120:U:C4	2.82	0.42
1:AA:270(K):C:H2'	1:AA:270(L):U:H5''	2.00	0.42
1:AA:270(T):G:C6	1:AA:270(U):C:C4	3.08	0.42
1:AA:464:U:H2'	1:AA:465:G:O4'	2.20	0.42
1:AA:733:G:C8	1:AA:761:A:N6	2.88	0.42
1:AA:1061:U:O3'	1:AA:1070:A:H4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:G:C6	1:AA:1349:A:N1	2.88	0.42
1:AA:1348:G:N1	1:AA:1599:C:C4	2.88	0.42
1:AA:1444:G:N2	1:AA:1548:C:C2	2.88	0.42
1:AA:1882:C:O2	1:AA:1882:C:H2'	2.20	0.42
1:AA:2012:G:OP2	18:AS:16:LYS:HE2	2.20	0.42
1:AA:2115:G:C2	1:AA:2117:A:N7	2.88	0.42
1:AA:2264:C:H5''	1:AA:2265:U:OP2	2.19	0.42
1:AA:2321:G:N3	1:AA:2321:G:H2'	2.35	0.42
1:AA:2755:C:HO2'	1:AA:2756:U:H6	1.68	0.42
4:AE:38:THR:HB	4:AE:39:PRO:HD2	2.02	0.42
5:AF:28:ILE:HA	5:AF:112:MET:HE3	2.01	0.42
5:AF:66:PRO:O	5:AF:67:GLN:CB	2.66	0.42
5:AF:112:MET:HE3	5:AF:112:MET:HB3	1.94	0.42
5:AF:185:ASP:O	5:AF:189:THR:OG1	2.34	0.42
6:AG:42:GLY:O	6:AG:43:LEU:HD13	2.20	0.42
8:AK:7:GLU:HG3	8:AK:8:PRO:CD	2.50	0.42
8:AK:65:ALA:O	8:AK:69:LYS:N	2.53	0.42
10:AN:10:VAL:HB	10:AN:16:ALA:O	2.20	0.42
10:AN:66:LYS:H	10:AN:82:ASN:ND2	2.18	0.42
10:AN:90:GLN:CD	10:AN:90:GLN:N	2.78	0.42
11:AO:16:ARG:NH1	11:AO:16:ARG:CG	2.80	0.42
11:AO:39:LYS:CB	11:AO:45:LEU:CD2	2.97	0.42
14:AQ:14:VAL:HG21	14:AQ:89:ARG:HE	1.85	0.42
16:A1:96:ALA:O	16:A1:99:ALA:HB3	2.20	0.42
20:AU:42:VAL:HB	20:AU:67:LEU:CD1	2.44	0.42
20:AU:52:SER:CB	20:AU:53:PRO:HD3	2.49	0.42
20:AU:76:CYS:CB	20:AU:77:PRO:HD3	2.50	0.42
21:AV:110:GLY:C	21:AV:112:ARG:N	2.77	0.42
23:AZ:82:LEU:HD22	23:AZ:82:LEU:N	2.35	0.42
24:AW:17:SER:CB	24:AW:18:PRO:CD	2.97	0.42
1:BA:278:A:O2'	1:BA:279:C:OP1	2.33	0.42
1:BA:654(D):G:N2	1:BA:654(Q):C:N3	2.58	0.42
1:BA:656:G:H2'	1:BA:657:U:O4'	2.19	0.42
1:BA:928:G:H2'	1:BA:929:G:O4'	2.19	0.42
1:BA:953:A:C4	1:BA:954:G:C8	3.08	0.42
1:BA:962:G:OP1	1:BA:963:U:OP2	2.37	0.42
1:BA:1047:G:O2'	1:BA:1110:G:N2	2.43	0.42
1:BA:1178:C:C5	1:BA:1179:C:C5	3.08	0.42
1:BA:1299:G:H5''	1:BA:1300:U:OP1	2.19	0.42
1:BA:1401:G:H2'	1:BA:1402:C:C6	2.54	0.42
1:BA:1419:A:C6	1:BA:1421:G:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1449(A):G:H2'	1:BA:1450:C:C6	2.51	0.42
1:BA:1507:A:H2'	1:BA:1508:A:C1'	2.49	0.42
1:BA:1791:A:H3'	1:BA:1792:G:H8	1.85	0.42
1:BA:1949:G:C6	1:BA:1950:G:C6	3.08	0.42
1:BA:2134:A:C2	1:BA:2135:A:C5	3.08	0.42
1:BA:2210:G:C4'	1:BA:2211:G:OP2	2.61	0.42
1:BA:2729:G:H2'	1:BA:2730:C:H6	1.84	0.42
1:BA:2817:G:P	13:B0:99:LYS:HZ3	2.41	0.42
1:BA:2835:A:H4'	1:BA:2836:U:OP1	2.20	0.42
3:BD:235:GLY:O	3:BD:237:GLU:OE1	2.37	0.42
5:BF:164:ARG:HH11	5:BF:177:ALA:HB2	1.85	0.42
6:BG:99:MET:HG3	6:BG:100:TRP:N	2.35	0.42
6:BG:126:ASP:OD1	6:BG:126:ASP:C	2.63	0.42
7:BH:10:PRO:HG2	7:BH:50:VAL:CG1	2.49	0.42
8:BK:62:LYS:HD2	8:BK:62:LYS:C	2.44	0.42
9:BM:82:LEU:HD12	9:BM:83:LYS:H	1.83	0.42
10:BN:35:VAL:HG12	10:BN:62:VAL:O	2.19	0.42
11:BO:21:ARG:O	11:BO:28:GLY:HA2	2.20	0.42
12:BP:54:MET:HE1	12:BP:64:ILE:HG23	2.01	0.42
19:BT:59:VAL:O	19:BT:60:ARG:C	2.62	0.42
21:BV:116:VAL:CG1	21:BV:117:LEU:H	2.29	0.42
21:BV:158:PRO:HB2	21:BV:159:PRO:CD	2.48	0.42
27:B5:16:ARG:NH1	27:B5:16:ARG:CG	2.65	0.42
31:CA:22:G:H4'	31:CA:885:G:C8	2.55	0.42
31:CA:85:U:O2	31:CA:85:U:C2'	2.67	0.42
31:CA:232:G:C4	31:CA:233:C:C6	3.08	0.42
31:CA:538:G:OP2	42:CO:112:LYS:HB2	2.20	0.42
31:CA:692:U:H1'	31:CA:695:A:N7	2.35	0.42
31:CA:766:A:N7	31:CA:814:A:C6	2.88	0.42
31:CA:946:A:H2'	31:CA:947:G:C8	2.55	0.42
31:CA:950:U:H2'	31:CA:951:G:C8	2.55	0.42
31:CA:980:C:H3'	31:CA:981:U:C6	2.55	0.42
32:CE:178:ARG:HG3	38:CK:72:PRO:HA	2.01	0.42
43:CP:34:LEU:HD12	43:CP:41:PRO:HG3	2.02	0.42
49:CV:37:ARG:H	49:CV:37:ARG:HG3	1.45	0.42
49:CV:63:THR:HG23	49:CV:66:MET:HE3	2.02	0.42
53:CD:60:A:C5	53:CD:61:U:C5	3.08	0.42
31:DA:8:A:C6	34:DG:209:ARG:HB2	2.55	0.42
31:DA:464:G:C6	31:DA:466:C:H5'	2.54	0.42
31:DA:771:G:O2'	31:DA:772:U:H5'	2.20	0.42
31:DA:984:C:O2'	31:DA:985:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1069:C:O2'	31:DA:1192:C:H1'	2.20	0.42
31:DA:1111:A:N1	33:DF:177:THR:OG1	2.32	0.42
31:DA:1141:C:H2'	31:DA:1142:G:H8	1.84	0.42
31:DA:1160:G:C2	31:DA:1161:C:C6	3.08	0.42
31:DA:1286:A:H4'	51:DX:25:LYS:NZ	2.31	0.42
31:DA:1350:A:C6	31:DA:1351:U:C4	3.08	0.42
32:DE:172:ILE:N	32:DE:172:ILE:CD1	2.82	0.42
32:DE:188:ALA:C	32:DE:189:ASP:OD1	2.63	0.42
33:DF:91:LEU:O	33:DF:94:LEU:HD12	2.20	0.42
34:DG:14:ARG:HH11	34:DG:14:ARG:CG	2.33	0.42
38:DK:44:PHE:HE2	38:DK:109:ILE:HG21	1.84	0.42
39:DL:47:LEU:C	39:DL:49:PRO:HD2	2.44	0.42
40:DM:29:ARG:C	40:DM:31:GLY:H	2.27	0.42
40:DM:54:PHE:CE1	40:DM:55:LYS:CE	3.03	0.42
49:DV:74:PHE:N	49:DV:74:PHE:CD2	2.88	0.42
53:DC:76:C:H5''	53:DC:77:A:OP2	2.19	0.42
1:AA:308:G:C8	1:AA:501:A:O4'	2.73	0.42
1:AA:363(A):A:C6	1:AA:363(B):G:C6	3.07	0.42
1:AA:528:A:OP2	9:AM:111:PRO:HB3	2.20	0.42
1:AA:592:G:N3	30:A8:4:MET:CE	2.81	0.42
1:AA:639:U:H3	1:AA:649:G:H1	1.68	0.42
1:AA:654:A:N3	1:AA:654:A:C2'	2.75	0.42
1:AA:881:G:O3'	1:AA:882:G:H4'	2.19	0.42
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.20	0.42
1:AA:1179:C:H2'	1:AA:1180:C:C5'	2.34	0.42
1:AA:1487:G:H2'	1:AA:1488:G:H8	1.85	0.42
1:AA:2114:A:C6	1:AA:2115:G:C6	3.08	0.42
1:AA:2230:G:C6	1:AA:2231:C:C4	3.08	0.42
1:AA:2280:G:O2'	1:AA:2281:C:H5'	2.20	0.42
1:AA:2562:U:C2'	10:AN:23:ARG:HH11	2.32	0.42
1:AA:2666:C:H42	7:AH:109:PHE:HA	1.85	0.42
1:AA:2772:C:H2'	1:AA:2773:C:C6	2.55	0.42
1:AA:2785:C:H2'	1:AA:2786:U:O4'	2.20	0.42
2:AB:43:C:P	6:AG:67:LYS:NZ	2.93	0.42
4:AE:22:PRO:C	4:AE:23:VAL:CG2	2.84	0.42
6:AG:8:LYS:O	6:AG:12:TYR:HD2	2.03	0.42
7:AH:7:LEU:N	7:AH:8:PRO:CD	2.83	0.42
7:AH:83:TYR:HB2	7:AH:84:SER:H	1.61	0.42
8:AK:130:TYR:O	8:AK:135:GLU:HB2	2.20	0.42
9:AM:7:LYS:HE3	9:AM:7:LYS:HB3	1.86	0.42
9:AM:35:ARG:O	9:AM:35:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AO:15:ARG:C	11:AO:16:ARG:O	2.62	0.42
22:A3:69:PHE:CE2	22:A3:79:VAL:HG22	2.55	0.42
1:BA:148:C:H5''	1:BA:148:C:H6	1.82	0.42
1:BA:175:G:C2'	1:BA:176:G:H5'	2.49	0.42
1:BA:186:G:C2	1:BA:211:A:C2	3.08	0.42
1:BA:270(N):G:O2'	1:BA:270(P):C:H5'	2.19	0.42
1:BA:297:C:H2'	1:BA:298:G:O5'	2.20	0.42
1:BA:299:A:O2'	1:BA:319:C:H4'	2.20	0.42
1:BA:388:G:OP1	23:BZ:32:LYS:N	2.51	0.42
1:BA:618(A):C:OP2	5:BF:103:LYS:HE2	2.20	0.42
1:BA:836:G:C5	1:BA:837:C:C4	3.08	0.42
1:BA:865:C:H4'	1:BA:866:A:OP1	2.20	0.42
1:BA:911:A:H2'	12:BP:9:TYR:CE2	2.54	0.42
1:BA:1287:A:C6	1:BA:1288:U:C4	3.08	0.42
1:BA:1385:G:H1'	1:BA:1386:C:C6	2.54	0.42
1:BA:1484:G:C5	1:BA:1485:G:N7	2.88	0.42
1:BA:1659:U:C4	1:BA:1660:C:C5	3.08	0.42
1:BA:2127:G:N3	1:BA:2173:A:C8	2.88	0.42
1:BA:2159:G:H2'	1:BA:2160:G:O4'	2.20	0.42
1:BA:2366:A:H2'	1:BA:2367:G:O4'	2.19	0.42
1:BA:2672:G:H2'	1:BA:2673:G:H5''	2.02	0.42
1:BA:2694:G:H2'	1:BA:2695:C:H6	1.85	0.42
1:BA:2759:G:N2	1:BA:2760:C:H1'	2.35	0.42
2:BB:74:U:C2'	2:BB:75:G:C5'	2.76	0.42
2:BB:87:G:C6	2:BB:89:G:OP1	2.72	0.42
3:BD:68:LYS:O	3:BD:68:LYS:HG3	2.19	0.42
4:BE:37:ARG:HA	4:BE:42:ASP:OD2	2.20	0.42
4:BE:105:THR:OG1	4:BE:166:THR:HG23	2.20	0.42
4:BE:107:THR:HA	4:BE:163:GLU:O	2.19	0.42
6:BG:20:ILE:O	6:BG:24:GLY:HA2	2.20	0.42
7:BH:94:TYR:HA	7:BH:106:THR:O	2.20	0.42
8:BK:102:SER:O	8:BK:106:GLY:HA2	2.19	0.42
8:BK:136:VAL:O	8:BK:136:VAL:HG13	2.20	0.42
9:BM:132:ALA:O	9:BM:133:GLN:C	2.62	0.42
12:BP:112:GLU:H	12:BP:112:GLU:HG2	1.59	0.42
15:BR:50:ILE:HD13	15:BR:50:ILE:HA	1.80	0.42
16:B1:79:PHE:O	16:B1:83:LEU:HB2	2.20	0.42
16:B1:106:PHE:O	16:B1:110:VAL:HG23	2.20	0.42
20:BU:47:LYS:CA	20:BU:60:PHE:HB3	2.50	0.42
22:B3:82:ARG:HA	22:B3:83:PRO:HD2	1.92	0.42
24:BW:64:LEU:CD2	24:BW:64:LEU:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:26:LYS:HG2	30:B8:48:PHE:CD1	2.54	0.42
31:CA:139:G:N2	31:CA:225:C:C2	2.88	0.42
31:CA:194:C:H2'	31:CA:195:A:H5''	2.02	0.42
31:CA:284:G:H2'	31:CA:285:G:H8	1.85	0.42
31:CA:690:G:N2	41:CN:55:LYS:HZ1	2.18	0.42
31:CA:720:C:O5'	31:CA:720:C:H6	2.03	0.42
31:CA:1347:G:HO2'	31:CA:1373:G:H1	1.68	0.42
31:CA:1365:G:C6	31:CA:1366:C:C4	3.08	0.42
34:CG:134:ASP:OD2	34:CG:135:LEU:HD13	2.19	0.42
34:CG:175:SER:HB3	34:CG:186:LEU:HD11	2.02	0.42
36:CI:46:ARG:HG3	36:CI:47:ARG:N	2.35	0.42
37:CJ:97:GLN:O	37:CJ:98:SER:C	2.61	0.42
38:CK:87:SER:HB2	38:CK:93:VAL:HG23	2.02	0.42
39:CL:79:LEU:HD23	39:CL:79:LEU:HA	1.87	0.42
39:CL:109:VAL:O	39:CL:109:VAL:HG12	2.20	0.42
43:CP:66:LEU:O	43:CP:67:GLU:C	2.63	0.42
49:CV:40:ILE:O	49:CV:41:VAL:HG22	2.19	0.42
52:CB:18:G:C1'	52:CB:19:G:OP1	2.61	0.42
53:CD:50:G:H2'	53:CD:50:G:N3	2.35	0.42
31:DA:872:A:C5	31:DA:874:G:C5	3.07	0.42
31:DA:965:A:OP1	31:DA:1198:G:H5''	2.20	0.42
31:DA:1133:G:N3	31:DA:1134:G:C8	2.88	0.42
31:DA:1242:C:H2'	31:DA:1243:C:O4'	2.20	0.42
31:DA:1372:U:C2'	31:DA:1373:G:H5'	2.49	0.42
31:DA:1374:A:C5	31:DA:1375:A:C8	3.08	0.42
33:DF:64:VAL:HG21	33:DF:66:VAL:HG23	2.02	0.42
34:DG:18:LYS:HD3	34:DG:26:CYS:O	2.19	0.42
35:DH:70:PRO:O	35:DH:71:LEU:HD23	2.20	0.42
36:DI:33:TYR:CZ	36:DI:78:GLU:HG3	2.55	0.42
38:DK:102:ARG:H	38:DK:102:ARG:HG3	1.66	0.42
39:DL:5:TYR:CD2	39:DL:18:PHE:HE2	2.37	0.42
42:DO:47:LYS:CG	42:DO:48:PRO:HD2	2.50	0.42
43:DP:79:LYS:HD3	43:DP:82:MET:SD	2.60	0.42
46:DS:8:ARG:C	46:DS:9:PHE:CD2	2.98	0.42
47:DT:68:ARG:H	47:DT:70:ARG:NH1	2.18	0.42
53:DC:2:G:C6	53:DC:73:A:C2	3.08	0.42
1:AA:234:C:H2'	1:AA:235:U:O4'	2.20	0.41
1:AA:443:A:H5''	1:AA:444:C:OP1	2.20	0.41
1:AA:1005:C:O2'	9:AM:28:THR:OG1	2.37	0.41
1:AA:1105:U:C2	1:AA:1106:G:C8	3.08	0.41
1:AA:1515:C:H2'	1:AA:1516:U:C6	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1575:C:H2'	1:AA:1576:U:H6	1.85	0.41
1:AA:1587:A:C6	1:AA:1588:C:C4	3.08	0.41
1:AA:1655:A:H3'	1:AA:1656:C:C6	2.55	0.41
1:AA:1686:C:H2'	1:AA:1687:G:O4'	2.20	0.41
1:AA:1937:A:H1'	1:AA:1938:A:OP1	2.20	0.41
1:AA:2266:A:C2	1:AA:2272:U:C5	3.08	0.41
1:AA:2266:A:H4'	1:AA:2267:A:N3	2.35	0.41
1:AA:2391:G:O6	1:AA:2425:A:H8	2.03	0.41
1:AA:2457:U:H2'	1:AA:2458:G:H5'	2.02	0.41
1:AA:2555:U:C3'	1:AA:2556:C:H5'	2.50	0.41
1:AA:2637:U:C4	1:AA:2638:G:C6	3.08	0.41
1:AA:2740:A:N6	1:AA:2764:A:C8	2.88	0.41
2:AB:40:U:H3'	2:AB:41:U:H5'	2.02	0.41
3:AD:35:LYS:N	3:AD:64:ILE:CG2	2.83	0.41
5:AF:36:VAL:O	5:AF:40:GLN:HG3	2.19	0.41
5:AF:192:LEU:HD21	5:AF:194:MET:HE2	2.01	0.41
6:AG:107:LEU:HD11	6:AG:178:PHE:CD1	2.55	0.41
7:AH:13:LYS:HE2	7:AH:13:LYS:CA	2.44	0.41
9:AM:137:LYS:CG	9:AM:138:LEU:N	2.77	0.41
10:AN:87:ILE:HG22	10:AN:93:PRO:HA	2.02	0.41
11:AO:3:LEU:HD23	11:AO:3:LEU:HA	1.75	0.41
14:AQ:67:ARG:CB	14:AQ:67:ARG:HH11	2.33	0.41
15:AR:5:ALA:O	15:AR:9:LEU:HB2	2.20	0.41
16:A1:60:LEU:HD21	16:A1:64:ARG:NH2	2.34	0.41
21:AV:157:LEU:C	21:AV:158:PRO:O	2.63	0.41
22:A3:46:LYS:HE2	22:A3:46:LYS:HB3	1.85	0.41
27:A5:57:VAL:O	27:A5:57:VAL:CG1	2.67	0.41
1:BA:74:A:O5'	1:BA:74:A:H8	2.01	0.41
1:BA:153:C:OP1	23:BZ:88:LYS:CE	2.68	0.41
1:BA:196:A:O5'	11:BO:46:LYS:NZ	2.53	0.41
1:BA:590:A:H2'	1:BA:591:C:C6	2.54	0.41
1:BA:854:G:O2'	1:BA:855:G:H5'	2.20	0.41
1:BA:911:A:O5'	1:BA:912:C:H5''	2.20	0.41
1:BA:1000:A:N6	1:BA:1001:A:N1	2.68	0.41
1:BA:1553:A:C5	1:BA:1555:G:C5	3.08	0.41
1:BA:2016:U:C4'	27:B5:6:VAL:HG11	2.50	0.41
1:BA:2738:A:C2	1:BA:2739:U:H1'	2.54	0.41
1:BA:2823:A:OP1	4:BE:159:HIS:NE2	2.53	0.41
1:BA:2864:G:O2'	1:BA:2865:U:H5'	2.19	0.41
2:BB:1:U:H2'	2:BB:2:C:O4'	2.20	0.41
2:BB:38:C:O4'	14:BQ:95:HIS:CE1	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:41:U:O4	6:BG:70:VAL:O	2.38	0.41
2:BB:43:C:O4'	6:BG:66:GLN:NE2	2.53	0.41
2:BB:46:A:C5	2:BB:47:C:C5	3.08	0.41
3:BD:53:PHE:C	3:BD:218:ARG:HG3	2.45	0.41
3:BD:53:PHE:CD1	3:BD:219:PRO:O	2.73	0.41
3:BD:228:PRO:HD3	3:BD:235:GLY:CA	2.47	0.41
4:BE:108:SER:O	4:BE:162:ALA:HA	2.20	0.41
5:BF:82:ILE:HD12	5:BF:82:ILE:H	1.84	0.41
6:BG:181:ARG:O	6:BG:182:LYS:HB2	2.20	0.41
7:BH:6:ARG:HE	7:BH:54:ARG:HH12	1.68	0.41
7:BH:124:GLU:N	7:BH:124:GLU:CD	2.78	0.41
8:BK:6:LEU:HD13	8:BK:36:ALA:HA	2.02	0.41
12:BP:137:TYR:HE1	21:BV:83:PRO:HG3	1.80	0.41
14:BQ:106:ARG:HA	14:BQ:110:LEU:HG	2.03	0.41
16:B1:77:SER:OG	16:B1:78:THR:N	2.54	0.41
17:B2:20:LEU:HG	17:B2:21:ARG:N	2.35	0.41
17:B2:22:VAL:O	17:B2:23:GLU:C	2.63	0.41
20:BU:11:ASP:O	20:BU:27:VAL:HG13	2.20	0.41
23:BZ:63:ALA:O	23:BZ:64:ALA:C	2.63	0.41
29:B7:8:ASN:HD22	29:B7:9:ARG:N	2.16	0.41
30:B8:32:LEU:O	30:B8:36:LYS:CE	2.68	0.41
31:CA:146:G:C2	31:CA:147:G:C8	3.08	0.41
31:CA:183:G:O2'	31:CA:224:C:H4'	2.19	0.41
31:CA:216:G:C6	31:CA:217:C:N4	2.88	0.41
31:CA:345:C:H6	31:CA:345:C:H3'	1.85	0.41
31:CA:370:C:H2'	31:CA:371:G:O4'	2.20	0.41
31:CA:689:C:OP1	41:CN:27:ASN:ND2	2.52	0.41
31:CA:921:U:H2'	31:CA:922:G:O4'	2.20	0.41
31:CA:982:U:H5''	44:CQ:6:LEU:HD13	2.01	0.41
31:CA:1152:A:H4'	40:CM:13:HIS:HD2	1.82	0.41
31:CA:1208:C:H2'	31:CA:1209:C:O4'	2.18	0.41
31:CA:1305:G:OP1	51:CX:2:GLY:HA3	2.20	0.41
31:CA:1449:C:H2'	31:CA:1450:U:O4'	2.20	0.41
32:CE:214:ILE:O	32:CE:218:ALA:HB2	2.19	0.41
38:CK:100:ILE:HA	38:CK:101:PRO:HD3	1.91	0.41
51:CX:12:LYS:O	51:CX:16:GLY:N	2.51	0.41
52:CB:72:C:O2	52:CB:72:C:H2'	2.20	0.41
53:CC:16:C:OP2	53:CC:17:C:N4	2.53	0.41
53:CD:31:G:H2'	53:CD:32:G:H8	1.84	0.41
31:DA:259:G:H1	31:DA:267:C:N4	2.15	0.41
31:DA:1022:G:C6	31:DA:1023:G:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1120:G:H2'	31:DA:1121:U:H6	1.84	0.41
31:DA:1134:G:C2'	31:DA:1135:U:H5'	2.50	0.41
31:DA:1301:U:C2'	31:DA:1302:U:OP1	2.67	0.41
32:DE:101:MET:HB2	32:DE:102:LEU:HD12	2.02	0.41
32:DE:166:ASP:OD1	32:DE:205:ASP:OD2	2.38	0.41
32:DE:188:ALA:O	32:DE:203:GLY:O	2.37	0.41
39:DL:10:ARG:NH1	39:DL:105:ASP:OD1	2.53	0.41
43:DP:91:ARG:HA	43:DP:91:ARG:HD2	1.91	0.41
50:DW:26:ASN:O	50:DW:30:LYS:HB2	2.20	0.41
53:DC:2:G:C6	53:DC:3:C:N4	2.88	0.41
1:AA:8:A:H5''	9:AM:51:PHE:CE2	2.55	0.41
1:AA:141:A:OP2	1:AA:141(A):C:N4	2.47	0.41
1:AA:164:U:OP2	1:AA:165:U:O4	2.38	0.41
1:AA:654(G):C:C2	1:AA:654(N):G:N1	2.77	0.41
1:AA:654(M):C:C3'	1:AA:654(N):G:H8	2.32	0.41
1:AA:746:A:C5	1:AA:2611:U:H5''	2.55	0.41
1:AA:823:G:C2'	1:AA:824:A:O5'	2.68	0.41
1:AA:850:C:O3'	25:AX:49:LYS:HE2	2.19	0.41
1:AA:959:A:C6	1:AA:960:A:N1	2.88	0.41
1:AA:975:G:H1'	1:AA:990:A:C2	2.55	0.41
1:AA:1593:G:C2	1:AA:1594:G:C4	3.08	0.41
1:AA:1593:G:C2	1:AA:1594:G:C5	3.08	0.41
1:AA:1743:G:C2	1:AA:1746:G:C8	3.08	0.41
1:AA:1773:A:H2'	1:AA:1774:C:H5'	2.02	0.41
1:AA:1975:G:C2	1:AA:1976:U:C2	3.07	0.41
1:AA:2212:A:C2	1:AA:2215:G:N2	2.88	0.41
1:AA:2395:C:H2'	1:AA:2396:G:O4'	2.20	0.41
1:AA:2552:U:O2	1:AA:2554:U:H5'	2.20	0.41
1:AA:2812:G:C2	1:AA:2813:A:C4	3.08	0.41
2:AB:23:G:C2	2:AB:24:G:O6	2.73	0.41
4:AE:3:GLY:O	4:AE:4:ILE:HB	2.21	0.41
4:AE:60:ASN:HB2	4:AE:61:ARG:H	1.58	0.41
4:AE:97:LYS:O	4:AE:100:GLU:HG3	2.20	0.41
6:AG:16:ARG:CG	6:AG:16:ARG:NH1	2.82	0.41
7:AH:35:VAL:HA	7:AH:36:PRO:HD2	1.94	0.41
7:AH:149:ARG:NH1	7:AH:167:GLU:OE2	2.44	0.41
11:AO:112:LEU:HD13	11:AO:127:ALA:HB2	2.03	0.41
11:AO:114:ILE:CD1	11:AO:130:PHE:CD1	3.01	0.41
12:AP:72:LYS:HA	12:AP:73:PRO:HD3	1.93	0.41
12:AP:103:MET:HE3	12:AP:125:LEU:CD1	2.50	0.41
14:AQ:102:ALA:C	14:AQ:104:GLY:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:69:CYS:CB	16:A1:79:PHE:HD1	2.33	0.41
18:AS:97:LYS:HE2	18:AS:99:ARG:NH2	2.35	0.41
23:AZ:92:LYS:C	23:AZ:95:LEU:H	2.28	0.41
25:AX:4:LEU:O	25:AX:36:VAL:HA	2.20	0.41
1:BA:138:G:C2'	1:BA:139:G:H5'	2.50	0.41
1:BA:774:A:C2	1:BA:787:U:O2'	2.58	0.41
1:BA:819:A:H2'	1:BA:820:A:H5'	2.02	0.41
1:BA:846:C:N1	1:BA:847:U:C5	2.88	0.41
1:BA:1844:C:C2	1:BA:1897:G:N2	2.88	0.41
1:BA:1915:U:H2'	1:BA:1916:A:O4'	2.20	0.41
1:BA:2173:A:C2	1:BA:2174:C:C4'	3.04	0.41
1:BA:2298:A:N6	1:BA:2318:G:C8	2.87	0.41
1:BA:2341:G:H2'	1:BA:2342:C:O4'	2.19	0.41
1:BA:2873:A:N3	1:BA:2873:A:C2'	2.83	0.41
4:BE:27:LEU:CD2	15:BR:1:MET:HE3	2.48	0.41
8:BK:56:LYS:HG3	8:BK:57:ARG:N	2.35	0.41
11:BO:34:GLY:O	11:BO:35:HIS:C	2.63	0.41
11:BO:68:GLN:HG2	30:B8:12:LYS:HG2	2.01	0.41
11:BO:123:LEU:HD23	11:BO:123:LEU:N	2.35	0.41
12:BP:7:MET:HG3	12:BP:9:TYR:O	2.21	0.41
12:BP:43:THR:O	12:BP:46:GLN:N	2.45	0.41
13:B0:97:VAL:HA	13:B0:113:LEU:O	2.20	0.41
15:BR:16:ARG:HG3	15:BR:79:HIS:HA	2.02	0.41
19:BT:50:LYS:HB3	19:BT:84:ALA:H	1.85	0.41
20:BU:53:PRO:CD	20:BU:57:GLN:O	2.64	0.41
20:BU:54:LYS:HD2	20:BU:55:TYR:CZ	2.54	0.41
21:BV:60:GLU:CA	21:BV:66:SER:HA	2.36	0.41
21:BV:69:THR:HG22	21:BV:90:VAL:CA	2.37	0.41
25:BX:13:ILE:H	25:BX:13:ILE:CD1	2.32	0.41
25:BX:54:VAL:HG12	25:BX:55:ARG:N	2.34	0.41
26:B4:56:VAL:HA	26:B4:60:GLN:CG	2.49	0.41
31:CA:69:G:N2	31:CA:73:G:C8	2.88	0.41
31:CA:130:A:OP2	31:CA:189:U:C6	2.73	0.41
31:CA:145:G:H1	31:CA:177:C:H42	1.69	0.41
31:CA:327:A:C4	31:CA:329:A:C8	3.09	0.41
31:CA:510:A:N3	31:CA:543:C:H1'	2.35	0.41
31:CA:832:C:C2	31:CA:855:G:C2	3.08	0.41
31:CA:950:U:H2'	31:CA:951:G:H8	1.86	0.41
31:CA:1236:A:O2'	31:CA:1304:G:H4'	2.20	0.41
31:CA:1311:G:C2	31:CA:1327:C:C2	3.08	0.41
32:CE:21:ARG:C	32:CE:23:ARG:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:102:LEU:HB3	32:CE:180:LEU:CD1	2.50	0.41
32:CE:206:ASP:O	32:CE:207:ALA:HB3	2.20	0.41
33:CF:62:ASP:OD1	33:CF:62:ASP:N	2.53	0.41
34:CG:80:GLU:HA	34:CG:80:GLU:OE2	2.20	0.41
35:CH:76:ILE:CB	35:CH:77:PRO:HD2	2.48	0.41
35:CH:147:ASP:OD2	35:CH:147:ASP:N	2.54	0.41
40:CM:48:THR:HA	40:CM:62:HIS:CB	2.30	0.41
43:CP:5:ALA:O	43:CP:6:GLY:C	2.63	0.41
44:CQ:23:ARG:O	44:CQ:24:CYS:C	2.62	0.41
31:DA:192:U:C5	31:DA:193:C:H5	2.38	0.41
31:DA:1003:G:C3'	31:DA:1004:A:H5'	2.50	0.41
31:DA:1298:C:H5	37:DJ:114:ARG:NE	2.18	0.41
31:DA:1323:G:H4'	31:DA:1362(A):C:N3	2.35	0.41
31:DA:1338:G:C6	31:DA:1339:A:C6	3.08	0.41
31:DA:1342:C:O2'	31:DA:1343:G:H5'	2.19	0.41
31:DA:1356:G:N2	31:DA:1367:C:C2	2.88	0.41
31:DA:1374:A:C2'	31:DA:1375:A:H5'	2.46	0.41
32:DE:84:GLU:HB3	32:DE:219:VAL:HG11	2.01	0.41
32:DE:103:THR:HA	32:DE:180:LEU:HD11	2.02	0.41
33:DF:119:ARG:HH22	33:DF:140:ARG:CG	2.33	0.41
39:DL:4:TYR:CD1	39:DL:88:TYR:CE1	3.08	0.41
39:DL:48:GLU:HB3	39:DL:101:PHE:CE2	2.52	0.41
39:DL:63:ILE:HD13	39:DL:77:ILE:HG23	2.02	0.41
43:DP:14:ARG:HH21	43:DP:16:ASP:CG	2.28	0.41
50:DW:11:SER:HA	50:DW:13:LEU:H	1.86	0.41
53:DD:19:G:H2'	53:DD:58:A:H62	1.83	0.41
53:DD:19:G:H4'	53:DD:61:U:H3	1.84	0.41
1:AA:26:G:C6	1:AA:27:G:C6	3.09	0.41
1:AA:196:A:N3	1:AA:196:A:H2'	2.35	0.41
1:AA:654(D):G:H1	1:AA:654(Q):C:N4	2.17	0.41
1:AA:691:C:H6	1:AA:691:C:O5'	2.03	0.41
1:AA:887:A:OP2	1:AA:887:A:O4'	2.38	0.41
1:AA:894:C:OP1	1:AA:894:C:O4'	2.38	0.41
1:AA:1049:C:C4	1:AA:1050:A:N1	2.88	0.41
1:AA:1063:G:C2	1:AA:1064:C:C2	3.08	0.41
1:AA:1090:U:N3	1:AA:1102:C:O2	2.54	0.41
1:AA:1260:G:O2'	1:AA:1261:C:H5'	2.21	0.41
1:AA:1433:U:H1'	1:AA:1561:G:H22	1.85	0.41
1:AA:2032:G:C4	4:AE:145:LYS:HD2	2.55	0.41
1:AA:2250:G:C6	12:AP:83:MET:HB2	2.55	0.41
1:AA:2318:G:N2	14:AQ:2:ALA:N	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2500:U:H2'	1:AA:2504:U:H5	1.85	0.41
1:AA:2783:G:H2'	1:AA:2784:C:H6	1.84	0.41
3:AD:26:LYS:H	3:AD:26:LYS:CD	2.31	0.41
4:AE:59:VAL:CG2	4:AE:73:GLU:HB3	2.41	0.41
4:AE:101:ARG:HH11	4:AE:101:ARG:HD3	1.74	0.41
5:AF:168:ARG:HG3	5:AF:175:THR:HG21	2.01	0.41
8:AK:10:GLU:HA	8:AK:10:GLU:OE2	2.21	0.41
8:AK:44:LEU:HA	8:AK:44:LEU:HD12	1.81	0.41
10:AN:107:ARG:HH12	15:AR:36:GLU:CD	2.27	0.41
11:AO:78:PRO:HB3	11:AO:111:ARG:NH2	2.35	0.41
13:A0:44:LEU:CD2	13:A0:48:VAL:HG23	2.43	0.41
16:A1:92:ARG:HB2	17:A2:11:GLN:CD	2.46	0.41
19:AT:66:LEU:O	19:AT:67:GLY:O	2.38	0.41
20:AU:97:ARG:HD3	20:AU:97:ARG:N	2.34	0.41
22:A3:23:VAL:HG12	22:A3:25:ARG:O	2.21	0.41
1:BA:43:G:H2'	1:BA:44:A:O4'	2.20	0.41
1:BA:109:G:H2'	1:BA:110:G:O4'	2.21	0.41
1:BA:377:C:H2'	1:BA:378:C:C6	2.54	0.41
1:BA:471:A:H8	1:BA:471:A:O5'	2.03	0.41
1:BA:846:C:C2	1:BA:847:U:C5	3.09	0.41
1:BA:1056:G:H1'	1:BA:1103:A:H61	1.83	0.41
1:BA:1114:G:N1	1:BA:1115:G:C5	2.88	0.41
1:BA:1278:A:C5'	13:B0:36:THR:HG22	2.48	0.41
1:BA:1312:U:C2	1:BA:1603:A:C2	3.08	0.41
1:BA:1536:A:N7	1:BA:1537:C:O2	2.54	0.41
1:BA:1992:G:O5'	1:BA:1992:G:H8	2.00	0.41
1:BA:2131:G:N2	1:BA:2158:A:H2'	2.34	0.41
1:BA:2379:G:O2'	14:BQ:17:ARG:NH1	2.53	0.41
1:BA:2419:U:O4	30:B8:31:HIS:ND1	2.53	0.41
1:BA:2466:C:N4	1:BA:2467:C:N4	2.69	0.41
1:BA:2523:G:H8	1:BA:2523:G:C5'	2.27	0.41
1:BA:2598:A:N7	1:BA:2599:G:H1'	2.34	0.41
1:BA:2656:U:C4	1:BA:2664:G:N2	2.88	0.41
1:BA:2711:A:OP1	1:BA:2712(A):A:OP2	2.37	0.41
1:BA:2755:C:O2'	1:BA:2756:U:H2'	2.19	0.41
1:BA:2865:U:C4	1:BA:2866:U:C4	3.08	0.41
3:BD:64:ILE:HD13	3:BD:64:ILE:HG21	1.86	0.41
3:BD:137:PRO:HB2	3:BD:140:THR:CG2	2.51	0.41
4:BE:56:PRO:CG	4:BE:57:LYS:HZ3	2.18	0.41
5:BF:150:GLY:HA2	5:BF:172:TRP:CE3	2.56	0.41
6:BG:137:GLU:H	6:BG:137:GLU:HG2	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BH:3:ARG:CG	7:BH:4:ILE:H	2.33	0.41
7:BH:99:VAL:HG12	7:BH:100:GLY:N	2.35	0.41
9:BM:36:GLY:HA3	9:BM:48:MET:HE2	2.01	0.41
10:BN:2:ILE:HG23	10:BN:6:THR:HB	2.02	0.41
15:BR:8:LYS:HE3	15:BR:8:LYS:HB2	1.70	0.41
15:BR:78:LEU:HD23	15:BR:78:LEU:C	2.46	0.41
15:BR:127:ALA:O	15:BR:131:ALA:CB	2.69	0.41
17:B2:5:VAL:HB	17:B2:37:VAL:CG1	2.50	0.41
17:B2:39:LEU:H	17:B2:39:LEU:HD12	1.85	0.41
20:BU:76:CYS:HB3	20:BU:96:ILE:HD11	2.00	0.41
21:BV:175:VAL:CB	21:BV:176:PRO:HD3	2.49	0.41
23:BZ:88:LYS:HE2	23:BZ:88:LYS:HB3	1.58	0.41
26:B4:59:PHE:CE1	49:DV:66:MET:HG3	2.56	0.41
31:CA:110:C:H2'	31:CA:111:G:O4'	2.19	0.41
31:CA:186(C):G:C5	31:CA:191(E):G:N2	2.88	0.41
31:CA:419:C:H2'	31:CA:419:C:O2	2.19	0.41
31:CA:428:G:C5	31:CA:430:A:C6	3.08	0.41
31:CA:976:G:P	44:CQ:32:SER:H	2.42	0.41
31:CA:1085:U:H3'	31:CA:1086:U:H5	1.85	0.41
31:CA:1151:A:N6	31:CA:1152:A:N6	2.69	0.41
31:CA:1203:C:O2'	31:CA:1204:A:H5'	2.21	0.41
31:CA:1320:C:O2	49:CV:36:ARG:NH2	2.53	0.41
31:CA:1327:C:OP1	51:CX:21:TYR:HD1	2.03	0.41
31:CA:1351:U:O4'	37:CJ:33:ASP:HB3	2.20	0.41
34:CG:153:ARG:NH1	34:CG:181:MET:HG2	2.35	0.41
35:CH:53:LEU:O	35:CH:57:LYS:HG2	2.20	0.41
37:CJ:24:THR:O	37:CJ:27:ILE:N	2.54	0.41
43:CP:7:VAL:HG12	43:CP:8:GLU:N	2.34	0.41
47:CT:63:ARG:HA	47:CT:64:PRO:HD3	1.94	0.41
49:CV:39:THR:HG22	49:CV:40:ILE:H	1.86	0.41
31:DA:545:C:C2'	31:DA:546:G:H5'	2.50	0.41
31:DA:1027:C:O2	31:DA:1035:A:C6	2.73	0.41
31:DA:1133:G:N1	31:DA:1142:G:C6	2.88	0.41
31:DA:1176:A:N6	31:DA:1177:G:C5	2.88	0.41
31:DA:1263:C:C2	31:DA:1273:G:N2	2.88	0.41
31:DA:1298:C:H5	37:DJ:114:ARG:HD2	1.85	0.41
31:DA:1305:G:OP2	31:DA:1305:G:H8	2.03	0.41
33:DF:41:GLY:O	33:DF:45:LYS:HB2	2.21	0.41
34:DG:173:TRP:HB3	34:DG:187:ARG:HH11	1.85	0.41
34:DG:209:ARG:OXT	34:DG:209:ARG:HG2	2.19	0.41
35:DH:20:GLN:O	35:DH:21:ALA:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DJ:64:GLN:HA	37:DJ:64:GLN:OE1	2.20	0.41
38:DK:116:LYS:HG3	38:DK:129:VAL:HG21	2.03	0.41
40:DM:46:ARG:HG3	40:DM:64:GLU:HB3	2.02	0.41
41:DN:34:ASP:OD2	41:DN:37:GLY:N	2.53	0.41
49:DV:66:MET:HE3	49:DV:66:MET:N	2.35	0.41
53:DD:16:C:H5''	53:DD:17:C:OP2	2.20	0.41
53:DD:19:G:H4'	53:DD:61:U:C2	2.55	0.41
1:AA:654(L):G:H3'	1:AA:654(M):C:H6	1.85	0.41
1:AA:881:G:N7	1:AA:882:G:C8	2.88	0.41
1:AA:1050:A:C8	1:AA:2751:G:C5	3.09	0.41
1:AA:1055:G:H1	1:AA:1104:C:N4	2.15	0.41
1:AA:1056:G:N2	1:AA:1103:A:C5	2.87	0.41
1:AA:1069:A:O2'	1:AA:1072:C:P	2.79	0.41
1:AA:1567:A:O2'	3:AD:63:ARG:NH2	2.54	0.41
1:AA:1853:A:N1	1:AA:2087:G:H1'	2.35	0.41
1:AA:1869:G:C8	1:AA:1869:G:C5'	3.01	0.41
1:AA:2361:A:OP1	30:A8:27:THR:HG23	2.20	0.41
1:AA:2565:A:H62	10:AN:28:SER:HB2	1.85	0.41
1:AA:2751:G:O5'	1:AA:2751:G:H8	2.01	0.41
1:AA:2845:G:H2'	1:AA:2846:G:C8	2.54	0.41
2:AB:99:A:C6	2:AB:100:G:C5	3.09	0.41
3:AD:18:VAL:CG1	3:AD:19:ALA:N	2.84	0.41
3:AD:31:LYS:HG3	3:AD:32:SER:O	2.21	0.41
5:AF:163:VAL:O	5:AF:166:ALA:HB3	2.20	0.41
7:AH:86:GLU:OE1	7:AH:86:GLU:N	2.50	0.41
11:AO:135:LEU:HD23	11:AO:135:LEU:HA	1.79	0.41
14:AQ:56:LEU:HB2	14:AQ:58:LEU:HD21	2.01	0.41
17:A2:32:THR:HG23	17:A2:58:VAL:HG13	2.02	0.41
17:A2:66:ARG:CZ	17:A2:88:ARG:HD3	2.51	0.41
20:AU:27:VAL:HG22	20:AU:27:VAL:O	2.20	0.41
21:AV:128:VAL:HG23	21:AV:160:GLY:HA3	2.02	0.41
25:AX:35:ARG:HB3	25:AX:37:LEU:HD21	2.01	0.41
29:A7:1:MET:HE3	29:A7:1:MET:HB2	1.79	0.41
30:A8:29:LYS:O	30:A8:33:ASN:ND2	2.54	0.41
1:BA:185:U:H2'	1:BA:186:G:C8	2.55	0.41
1:BA:402:A:O5'	1:BA:402:A:H8	2.04	0.41
1:BA:528:A:O2'	1:BA:529:A:H5'	2.20	0.41
1:BA:572:A:H5''	1:BA:573:G:OP2	2.19	0.41
1:BA:977:G:C6	1:BA:987:G:C6	3.08	0.41
1:BA:1162:G:O4'	17:B2:23:GLU:HG3	2.20	0.41
1:BA:1317:A:O2'	1:BA:1318:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1425:G:H2'	1:BA:1426:G:O4'	2.20	0.41
1:BA:1658:C:H2'	1:BA:1659:U:C6	2.55	0.41
1:BA:1993:U:C2'	1:BA:1994:C:O5'	2.67	0.41
1:BA:2564:A:C6	1:BA:2565:A:C6	3.08	0.41
2:BB:57:A:OP2	2:BB:58:A:OP2	2.39	0.41
5:BF:154:VAL:HA	5:BF:191:ARG:O	2.20	0.41
5:BF:205:ARG:NH1	5:BF:205:ARG:HB2	2.35	0.41
6:BG:6:ALA:O	6:BG:10:LYS:N	2.35	0.41
9:BM:98:VAL:HG23	9:BM:99:LEU:N	2.34	0.41
10:BN:8:LEU:N	10:BN:8:LEU:HD22	2.34	0.41
14:BQ:24:LEU:HD22	14:BQ:24:LEU:N	2.32	0.41
21:BV:59:LEU:O	21:BV:60:GLU:CB	2.68	0.41
24:BW:15:LYS:H	24:BW:67:LYS:HE2	1.85	0.41
25:BX:8:LEU:O	25:BX:32:GLN:N	2.44	0.41
26:B4:5:ILE:O	26:B4:5:ILE:HG22	2.19	0.41
30:B8:39:LYS:CG	30:B8:40:GLU:N	2.82	0.41
31:CA:297:G:N2	31:CA:299:G:H3'	2.35	0.41
31:CA:448:A:O2'	31:CA:449:C:H5'	2.20	0.41
31:CA:557:G:C6	31:CA:558:G:N1	2.88	0.41
31:CA:672:U:O2'	31:CA:673:G:H5'	2.20	0.41
31:CA:1149:C:OP2	39:CL:9:ARG:NH2	2.53	0.41
31:CA:1177:G:C8	31:CA:1178:G:N1	2.88	0.41
31:CA:1243:C:C2	31:CA:1295:G:N2	2.88	0.41
31:CA:1279:A:O2'	31:CA:1281:U:OP2	2.28	0.41
31:CA:1310:G:C2'	31:CA:1311:G:H5'	2.51	0.41
32:CE:196:LEU:H	32:CE:196:LEU:HG	1.51	0.41
33:CF:10:PHE:HD2	33:CF:11:ARG:NH1	2.18	0.41
34:CG:176:LEU:HD12	34:CG:177:ASP:N	2.34	0.41
35:CH:34:VAL:O	35:CH:41:VAL:HA	2.20	0.41
38:CK:80:ILE:H	38:CK:80:ILE:HG12	1.60	0.41
43:CP:16:ASP:OD1	43:CP:31:LYS:NZ	2.48	0.41
43:CP:92:HIS:HA	43:CP:110:ARG:NH2	2.36	0.41
44:CQ:26:ARG:NH1	44:CQ:43:CYS:HB3	2.35	0.41
46:CS:40:ASP:O	46:CS:42:ARG:N	2.53	0.41
47:CT:65:ILE:HD12	47:CT:65:ILE:N	2.36	0.41
50:CW:26:ASN:HA	50:CW:29:LYS:CG	2.46	0.41
53:CC:59:A:C5	53:CC:62:C:N3	2.89	0.41
31:DA:402:G:C2'	31:DA:403:C:H5'	2.50	0.41
31:DA:408:A:C4	31:DA:409:G:C8	3.09	0.41
31:DA:410:G:OP2	34:DG:25:ARG:HB2	2.21	0.41
31:DA:811:C:C5	31:DA:812:C:N4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:854:G:N1	31:DA:855:G:N7	2.68	0.41
31:DA:954:G:H21	31:DA:1227:A:N6	2.18	0.41
31:DA:957:U:H2'	31:DA:959:A:OP2	2.20	0.41
31:DA:1105:A:C2	31:DA:1106:G:C5	3.08	0.41
31:DA:1157:A:N6	31:DA:1178:G:N2	2.68	0.41
31:DA:1350:A:N6	31:DA:1373:G:N2	2.69	0.41
33:DF:19:GLU:O	33:DF:56:ASP:HA	2.19	0.41
34:DG:101:LEU:HA	34:DG:101:LEU:HD12	1.83	0.41
35:DH:110:LEU:HA	35:DH:110:LEU:HD23	1.76	0.41
38:DK:6:ILE:O	38:DK:7:ALA:C	2.63	0.41
43:DP:60:VAL:HG12	43:DP:66:LEU:HD21	2.01	0.41
49:DV:14:HIS:HD2	49:DV:15:LEU:N	2.18	0.41
49:DV:31:ILE:HG13	49:DV:32:LYS:H	1.84	0.41
52:DB:77:C:C4	52:DB:78:C:C4	3.08	0.41
1:AA:71:A:C5	1:AA:73:A:N1	2.89	0.41
1:AA:402:A:C2'	1:AA:403:U:H5'	2.50	0.41
1:AA:881:G:C3'	1:AA:882:G:H4'	2.51	0.41
1:AA:1241:A:C2'	1:AA:1242:A:O5'	2.68	0.41
1:AA:1530:G:C6	1:AA:1531:C:C4	3.08	0.41
1:AA:1792:G:H5'	3:AD:205:VAL:HG13	2.02	0.41
1:AA:1861:G:C2	1:AA:1862:G:C8	3.08	0.41
1:AA:1864:U:H2'	1:AA:1869:G:C5'	2.40	0.41
1:AA:2371:G:O4'	28:A6:45:LYS:CG	2.58	0.41
1:AA:2697:G:H2'	1:AA:2698:U:O4'	2.20	0.41
3:AD:25:THR:HG23	3:AD:26:LYS:HD2	2.03	0.41
3:AD:228:PRO:HD3	3:AD:235:GLY:CA	2.51	0.41
4:AE:54:GLN:HB2	4:AE:75:VAL:HG13	2.01	0.41
4:AE:142:GLY:C	4:AE:143:ASN:HD22	2.29	0.41
6:AG:111:LEU:HB3	6:AG:117:PHE:CE2	2.55	0.41
7:AH:86:GLU:HG2	7:AH:165:ALA:H	1.85	0.41
7:AH:115:VAL:HG11	7:AH:148:ILE:HD11	2.02	0.41
7:AH:131:VAL:CG1	7:AH:132:ARG:N	2.83	0.41
8:AK:102:SER:O	8:AK:106:GLY:CA	2.60	0.41
12:AP:109:VAL:CG1	12:AP:110:THR:N	2.83	0.41
13:A0:1:MET:HB2	13:A0:1:MET:HE3	1.70	0.41
13:A0:74:LYS:O	13:A0:75:LEU:HB3	2.21	0.41
15:AR:88:ILE:O	15:AR:88:ILE:HG13	2.21	0.41
19:AT:31:HIS:NE2	19:AT:33:LYS:HG3	2.36	0.41
21:AV:29:TYR:CE2	21:AV:87:ASP:HB2	2.54	0.41
21:AV:135:GLU:O	21:AV:136:PHE:HB3	2.20	0.41
21:AV:143:GLY:HA3	21:AV:144:LEU:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A6:36:LEU:CD2	28:A6:36:LEU:N	2.81	0.41
1:BA:330:A:C2	1:BA:1210:A:H2'	2.49	0.41
1:BA:455:C:N3	1:BA:473:G:H5'	2.35	0.41
1:BA:528:A:C8	1:BA:528:A:C3'	3.03	0.41
1:BA:533:G:O5'	16:B1:24:TYR:CD2	2.73	0.41
1:BA:593:G:H1'	30:B8:4:MET:HE1	2.02	0.41
1:BA:665:C:H2'	1:BA:666:G:C8	2.52	0.41
1:BA:858:U:C2	1:BA:2268:A:C2	3.07	0.41
1:BA:962:G:H2'	1:BA:963:U:O4'	2.21	0.41
1:BA:1690:A:H3'	1:BA:1691:C:H6	1.86	0.41
1:BA:2169:A:H2	1:BA:2170:A:C5	2.38	0.41
1:BA:2371:G:C6	1:BA:2372:G:N7	2.88	0.41
1:BA:2394:C:OP1	11:BO:62:LEU:CB	2.63	0.41
1:BA:2445:G:H2'	1:BA:2446:G:H5'	2.01	0.41
1:BA:2517:C:C4	1:BA:2542:A:C6	3.09	0.41
1:BA:2689:U:C3'	1:BA:2690:C:H5'	2.50	0.41
2:BB:15:A:H1'	2:BB:109:G:C4	2.55	0.41
2:BB:100:G:H2'	2:BB:101:A:O4'	2.21	0.41
4:BE:37:ARG:HD2	4:BE:44:TYR:OH	2.06	0.41
5:BF:153:SER:HG	5:BF:190:GLU:HG3	1.83	0.41
6:BG:58:GLN:HG3	6:BG:59:GLU:N	2.35	0.41
7:BH:44:VAL:O	7:BH:50:VAL:HG23	2.21	0.41
8:BK:4:ILE:HG12	8:BK:18:VAL:CG2	2.42	0.41
11:BO:60:MET:HG3	11:BO:60:MET:O	2.21	0.41
11:BO:146:VAL:HG22	11:BO:147:LEU:CD1	2.51	0.41
12:BP:4:PRO:HG3	12:BP:71:ASP:HA	2.02	0.41
14:BQ:106:ARG:HA	14:BQ:110:LEU:CG	2.51	0.41
15:BR:61:PHE:CD2	15:BR:61:PHE:N	2.88	0.41
17:B2:47:VAL:O	17:B2:47:VAL:HG22	2.20	0.41
17:B2:71:LEU:O	17:B2:84:LYS:O	2.39	0.41
19:BT:60:ARG:HG3	19:BT:60:ARG:NH1	2.23	0.41
26:B4:16:CYS:HA	26:B4:33:VAL:CG2	2.47	0.41
26:B4:34:GLU:HB2	43:DP:57:ARG:CZ	2.50	0.41
28:B6:24:GLU:HG3	28:B6:25:LYS:H	1.84	0.41
30:B8:8:LYS:N	30:B8:8:LYS:CD	2.84	0.41
31:CA:192:U:O2'	31:CA:193:C:H5'	2.21	0.41
31:CA:303:A:C6	31:CA:304:U:C4	3.09	0.41
31:CA:358:U:H2'	31:CA:359:U:O4'	2.20	0.41
31:CA:750:G:C2	31:CA:751:U:C6	3.09	0.41
31:CA:956:U:C2'	31:CA:957:U:H5'	2.51	0.41
31:CA:1199:U:H4'	40:CM:54:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1270:C:O2'	31:CA:1271:G:H5'	2.21	0.41
31:CA:1288:A:O4'	31:CA:1353:G:H4'	2.21	0.41
31:CA:1336:C:O2	31:CA:1336:C:C2'	2.69	0.41
31:CA:1417:G:C6	31:CA:1482:G:C6	3.09	0.41
31:CA:1498:U:O2'	31:CA:1499:A:OP2	2.32	0.41
33:CF:178:LEU:N	33:CF:178:LEU:HD22	2.35	0.41
33:CF:188:LEU:HD23	33:CF:188:LEU:HA	1.78	0.41
34:CG:170:VAL:CG2	34:CG:171:GLY:N	2.81	0.41
36:CI:10:LEU:HD13	36:CI:61:LEU:HD13	2.03	0.41
36:CI:19:LEU:HD21	36:CI:59:TYR:CE2	2.55	0.41
36:CI:99:ALA:C	36:CI:101:ALA:N	2.78	0.41
39:CL:10:ARG:HG2	39:CL:105:ASP:HB2	2.03	0.41
39:CL:47:LEU:N	39:CL:47:LEU:HD13	2.35	0.41
41:CN:121:PRO:CG	41:CN:126:ARG:HG3	2.46	0.41
44:CQ:19:ARG:O	44:CQ:20:ALA:C	2.62	0.41
47:CT:28:PRO:HA	47:CT:34:LYS:O	2.21	0.41
50:CW:87:LYS:HA	50:CW:87:LYS:HD2	1.64	0.41
53:CC:25:U:H2'	53:CC:26:C:O4'	2.20	0.41
31:DA:29:G:C5	31:DA:30:U:C5	3.09	0.41
31:DA:415:A:H2'	31:DA:416:G:O4'	2.20	0.41
31:DA:532:A:N6	31:DA:1206:G:O2'	2.53	0.41
31:DA:973:G:H5''	40:DM:50:ILE:HD13	2.03	0.41
31:DA:1001:G:C6	31:DA:1002:G:C5	3.09	0.41
31:DA:1054:C:HO2'	31:DA:1055:A:P	2.43	0.41
31:DA:1151:A:C6	31:DA:1152:A:C6	3.08	0.41
31:DA:1491:G:C6	56:DA:1805:PAR:H21	2.55	0.41
32:DE:28:PHE:CE1	32:DE:31:TYR:HB2	2.56	0.41
33:DF:47:LEU:HD13	33:DF:47:LEU:O	2.19	0.41
34:DG:15:GLU:HB3	34:DG:63:LYS:HE2	2.01	0.41
34:DG:59:ARG:O	34:DG:63:LYS:N	2.48	0.41
35:DH:39:GLY:HA2	35:DH:71:LEU:HD11	2.01	0.41
38:DK:97:VAL:HA	38:DK:100:ILE:CD1	2.50	0.41
39:DL:4:TYR:CG	39:DL:88:TYR:CD1	3.09	0.41
42:DO:60:LEU:HD13	42:DO:60:LEU:HA	1.70	0.41
43:DP:22:ILE:HD12	43:DP:25:ILE:HG13	2.02	0.41
45:DR:39:LEU:HD12	45:DR:56:LEU:CD1	2.47	0.41
48:DU:84:LYS:HE2	48:DU:84:LYS:CA	2.49	0.41
50:DW:67:ALA:HA	50:DW:73:HIS:N	2.35	0.41
53:DC:60:A:C2'	53:DC:61:U:H5'	2.51	0.41
53:DD:35:C:C6	53:DD:35:C:OP1	2.74	0.41
1:AA:27:G:N2	1:AA:512:G:H1'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:336:C:C4	1:AA:337:C:H5	2.39	0.41
1:AA:363(F):A:H4'	1:AA:364:C:H5'	2.02	0.41
1:AA:375:C:H2'	1:AA:376:C:C6	2.55	0.41
1:AA:459:U:H5''	29:A7:40:TRP:CD2	2.55	0.41
1:AA:484:C:O2'	1:AA:485:C:H5'	2.20	0.41
1:AA:972:G:H3'	1:AA:973:A:H2'	2.03	0.41
1:AA:1252:G:O4'	16:A1:33:ARG:CD	2.68	0.41
1:AA:1556:C:H2'	1:AA:1557:C:H6	1.85	0.41
1:AA:1639:U:O2'	1:AA:1640:C:H5''	2.21	0.41
1:AA:1725:G:C2	1:AA:1741:C:O2	2.73	0.41
1:AA:2123:G:C2	1:AA:2176:A:N3	2.88	0.41
1:AA:2306:C:H3'	1:AA:2307:G:H5'	2.01	0.41
2:AB:7:G:H5''	2:AB:7:G:H8	1.85	0.41
2:AB:73:A:N7	2:AB:74:U:C5	2.89	0.41
3:AD:158:ALA:O	3:AD:159:ALA:C	2.63	0.41
5:AF:170:LEU:HB2	5:AF:173:VAL:CG2	2.51	0.41
6:AG:96:ARG:O	6:AG:97:ASP:HB3	2.20	0.41
7:AH:111:HIS:HB2	7:AH:112:PRO:HD2	2.03	0.41
11:AO:127:ALA:O	11:AO:147:LEU:N	2.53	0.41
13:A0:18:LEU:HD23	13:A0:18:LEU:HA	1.70	0.41
15:AR:45:PHE:CD1	15:AR:65:LYS:HE2	2.56	0.41
16:A1:81:HIS:O	16:A1:82:GLY:C	2.63	0.41
19:AT:36:LYS:HG2	19:AT:54:VAL:CG1	2.51	0.41
21:AV:52:SER:O	21:AV:53:ILE:CG1	2.69	0.41
23:AZ:5:CYS:C	23:AZ:7:ILE:H	2.28	0.41
1:BA:262:A:H2'	1:BA:263:C:O4'	2.20	0.41
1:BA:445:C:O2	1:BA:449:A:H2	2.04	0.41
1:BA:587:C:N3	11:BO:33:ARG:HD2	2.36	0.41
1:BA:872:A:C4	1:BA:906:G:N2	2.89	0.41
1:BA:904:C:H2'	1:BA:905:U:O4'	2.20	0.41
1:BA:988:A:H2'	1:BA:989:G:O5'	2.20	0.41
1:BA:1010:A:H5'	16:B1:62:ILE:HG21	2.03	0.41
1:BA:1084:A:C3'	1:BA:1085:A:C8	3.04	0.41
1:BA:1443:G:H2'	1:BA:1444:G:H5'	2.02	0.41
1:BA:1486:A:H2'	1:BA:1487:G:C8	2.56	0.41
1:BA:1486:A:H2'	1:BA:1487:G:H8	1.85	0.41
1:BA:1654:A:H1'	1:BA:2823:A:H5'	2.02	0.41
1:BA:1810:A:C2'	1:BA:1811:G:H5'	2.51	0.41
1:BA:2027:G:C5	1:BA:2028:U:C5	3.08	0.41
1:BA:2090:G:N2	23:BZ:47:GLN:NE2	2.68	0.41
2:BB:76:G:H2'	2:BB:77:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:130:ALA:HB2	3:BD:192:THR:HG22	2.02	0.41
4:BE:167:VAL:HG12	4:BE:170:LEU:CD1	2.50	0.41
6:BG:127:GLY:HA2	6:BG:166:ASP:CG	2.46	0.41
8:BK:29:TYR:C	8:BK:32:PRO:HD2	2.45	0.41
11:BO:48:PRO:O	11:BO:50:ARG:N	2.53	0.41
11:BO:93:GLY:O	11:BO:123:LEU:HD12	2.21	0.41
15:BR:96:ARG:CZ	15:BR:96:ARG:HB3	2.51	0.41
16:B1:92:ARG:CD	17:B2:11:GLN:HB2	2.51	0.41
18:BS:9:TYR:N	18:BS:102:HIS:HD2	2.01	0.41
21:BV:138:GLU:O	21:BV:156:LYS:HE3	2.20	0.41
22:B3:43:THR:O	22:B3:45:PHE:N	2.53	0.41
24:BW:9:GLN:O	24:BW:13:ALA:HB3	2.20	0.41
26:B4:18:CYS:CB	26:B4:19:GLY:HA2	2.50	0.41
31:CA:153:C:H6	31:CA:153:C:O5'	2.03	0.41
31:CA:191:G:H1'	50:CW:105:SER:HA	2.01	0.41
31:CA:604:G:C2	31:CA:635:G:C4	3.08	0.41
31:CA:616:G:C2	31:CA:617:G:C5	3.09	0.41
31:CA:709:G:C4	31:CA:710:G:C8	3.09	0.41
31:CA:811:C:C4'	31:CA:900:A:H61	2.34	0.41
31:CA:937:A:C5	31:CA:938:A:C8	3.09	0.41
31:CA:1032(A):G:H2'	31:CA:1032(B):G:C8	2.55	0.41
31:CA:1112:C:O2	33:CF:179:ARG:HG2	2.21	0.41
31:CA:1159:U:C4	31:CA:1182:G:C5	3.09	0.41
31:CA:1172:C:O2'	31:CA:1173:G:H5'	2.21	0.41
31:CA:1495:U:H2'	31:CA:1496:C:H6	1.85	0.41
33:CF:92:ALA:HA	33:CF:95:THR:HB	2.02	0.41
33:CF:150:LYS:HG3	33:CF:169:ALA:HB2	2.02	0.41
34:CG:28:SER:HB3	34:CG:30:LYS:HE3	2.02	0.41
34:CG:126:ILE:HG22	34:CG:127:THR:N	2.34	0.41
35:CH:59:GLY:O	35:CH:62:ALA:HB3	2.21	0.41
38:CK:26:VAL:O	38:CK:26:VAL:HG22	2.20	0.41
38:CK:88:LYS:CB	38:CK:89:PRO:CD	2.99	0.41
47:CT:26:GLN:O	47:CT:27:PHE:HB3	2.21	0.41
50:CW:93:GLU:O	50:CW:93:GLU:HG2	2.20	0.41
52:CB:27:G:O6	52:CB:45:U:O2	2.38	0.41
53:CC:28:U:O2	53:CC:45:A:C2	2.74	0.41
53:CD:14:A:OP1	53:CD:14:A:O4'	2.39	0.41
31:DA:20:U:H4'	31:DA:572:A:C6	2.55	0.41
31:DA:167:G:C4	31:DA:168:G:C8	3.09	0.41
31:DA:363:A:N3	42:DO:31:PRO:HG2	2.36	0.41
31:DA:405:U:O4	34:DG:2:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:413:G:C2'	31:DA:414:A:OP2	2.69	0.41
31:DA:563:A:C8	31:DA:567:G:C1'	3.04	0.41
31:DA:791:G:C5	31:DA:792:A:N7	2.89	0.41
31:DA:914:A:C6	31:DA:915:A:C5	3.08	0.41
31:DA:1028(B):C:N4	31:DA:1032(B):G:C2	2.88	0.41
31:DA:1090:U:H2'	31:DA:1091:U:H6	1.85	0.41
31:DA:1202:G:N2	44:DQ:43:CYS:SG	2.87	0.41
31:DA:1298:C:O2'	31:DA:1299:A:C2	2.74	0.41
31:DA:1337:G:C4'	31:DA:1338:G:OP1	2.69	0.41
33:DF:23:TYR:HA	40:DM:11:PHE:CD1	2.55	0.41
33:DF:29:TYR:HD1	44:DQ:36:PHE:HZ	1.69	0.41
33:DF:34:LEU:O	33:DF:38:ARG:HG2	2.20	0.41
33:DF:63:ASN:ND2	33:DF:64:VAL:H	2.18	0.41
33:DF:77:ILE:C	33:DF:83:ARG:HB3	2.44	0.41
34:DG:31:CYS:O	34:DG:32:ALA:CB	2.68	0.41
34:DG:150:GLU:C	34:DG:152:SER:N	2.79	0.41
36:DI:8:ILE:CD1	36:DI:26:ILE:HD13	2.50	0.41
39:DL:40:LEU:CD1	39:DL:70:LYS:HG2	2.50	0.41
41:DN:48:ILE:CD1	41:DN:64:ALA:HA	2.51	0.41
42:DO:75:HIS:CD2	42:DO:75:HIS:C	2.98	0.41
47:DT:35:VAL:O	47:DT:35:VAL:HG12	2.19	0.41
53:DC:2:G:N3	53:DC:2:G:H2'	2.36	0.41
1:AA:37:C:H2'	1:AA:38:A:C8	2.56	0.41
1:AA:278:A:H2'	1:AA:279:C:C6	2.56	0.41
1:AA:404:C:C1'	1:AA:405:U:OP2	2.64	0.41
1:AA:467:G:H2'	1:AA:468:G:O4'	2.21	0.41
1:AA:882:G:C3'	1:AA:883:G:H5''	2.46	0.41
1:AA:931:G:C4	1:AA:933:A:C8	3.09	0.41
1:AA:1322:A:N6	1:AA:1331:A:H61	2.17	0.41
1:AA:1332:G:N2	1:AA:1609:A:C2'	2.84	0.41
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.20	0.41
1:AA:1653:G:H4'	1:AA:1654:A:O5'	2.20	0.41
1:AA:1860:G:H1	1:AA:1882:C:N4	2.19	0.41
1:AA:2159:G:O2'	1:AA:2160:G:H5'	2.21	0.41
1:AA:2244:U:O2'	1:AA:2245:U:H5'	2.21	0.41
1:AA:2262:U:H4'	1:AA:2328:A:C2	2.56	0.41
1:AA:2496:C:OP1	12:AP:82:ARG:HB3	2.20	0.41
1:AA:2564:A:C5	1:AA:2565:A:C6	3.08	0.41
1:AA:2600:A:C6	1:AA:2601:C:N4	2.88	0.41
1:AA:2620:C:OP1	4:AE:152:LYS:O	2.39	0.41
1:AA:2636:U:H2'	1:AA:2637:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2769:C:O2	1:AA:2769:C:H2'	2.19	0.41
2:AB:15:A:H2'	2:AB:16:G:OP1	2.20	0.41
2:AB:52:A:OP2	14:AQ:59:LYS:NZ	2.53	0.41
2:AB:81:G:O6	2:AB:95:U:O2	2.39	0.41
3:AD:35:LYS:H	3:AD:64:ILE:CG2	2.34	0.41
4:AE:75:VAL:HG23	4:AE:76:ARG:N	2.36	0.41
7:AH:69:ARG:HG3	7:AH:70:THR:N	2.35	0.41
7:AH:86:GLU:HG3	7:AH:165:ALA:H	1.86	0.41
8:AK:21:VAL:HG21	8:AK:25:TYR:CD1	2.53	0.41
9:AM:46:VAL:HG13	9:AM:47:ALA:N	2.35	0.41
9:AM:67:LEU:HA	9:AM:87:LEU:HB3	2.01	0.41
15:AR:19:LEU:HA	15:AR:20:PRO:HD3	1.89	0.41
16:A1:73:GLY:O	16:A1:74:LEU:HG	2.21	0.41
16:A1:92:ARG:NE	17:A2:11:GLN:H	2.18	0.41
18:AS:29:LEU:O	18:AS:33:ARG:HG3	2.21	0.41
18:AS:70:TYR:N	18:AS:70:TYR:CD2	2.86	0.41
20:AU:33:LYS:H	20:AU:33:LYS:HG3	1.68	0.41
21:AV:46:LYS:HB2	21:AV:46:LYS:HE3	1.53	0.41
21:AV:98:MET:HG3	21:AV:99:TYR:N	2.35	0.41
23:AZ:87:PRO:C	23:AZ:89:GLU:N	2.74	0.41
27:A5:42:PRO:O	27:A5:44:THR:N	2.53	0.41
27:A5:48:GLU:O	27:A5:49:CYS:C	2.63	0.41
1:BA:21:A:C2'	1:BA:22:C:H5'	2.50	0.41
1:BA:186:G:O2'	1:BA:187:G:H5'	2.21	0.41
1:BA:646:A:H2'	1:BA:647:G:O5'	2.21	0.41
1:BA:764:A:N1	1:BA:1789:A:O2'	2.48	0.41
1:BA:833:U:H1'	11:BO:55:ARG:NH1	2.35	0.41
1:BA:933:A:C4	1:BA:934:G:C8	3.09	0.41
1:BA:1060:U:N3	1:BA:1088:A:C8	2.89	0.41
1:BA:1356:G:C6	1:BA:1357:U:C4	3.09	0.41
1:BA:2013:A:N6	1:BA:2014:A:C6	2.89	0.41
1:BA:2188:C:H2'	1:BA:2189:U:O4'	2.20	0.41
1:BA:2786:U:H4'	4:BE:64:LYS:CA	2.50	0.41
1:BA:2798:C:H5''	1:BA:2799:A:OP2	2.20	0.41
5:BF:132:VAL:O	5:BF:134:GLY:N	2.54	0.41
7:BH:83:TYR:O	7:BH:84:SER:OG	2.37	0.41
8:BK:9:LEU:HD23	8:BK:9:LEU:H	1.86	0.41
12:BP:47:ILE:HG22	12:BP:48:GLU:N	2.36	0.41
12:BP:116:GLU:OE1	12:BP:116:GLU:HA	2.21	0.41
14:BQ:62:LYS:HB3	14:BQ:97:ARG:CD	2.50	0.41
16:B1:92:ARG:CD	16:B1:95:LEU:HD12	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B2:28:GLU:CB	17:B2:29:PRO:CD	2.93	0.41
19:BT:32:PRO:HA	19:BT:77:LYS:HB2	2.03	0.41
20:BU:17:SER:OG	20:BU:18:GLY:O	2.39	0.41
20:BU:57:GLN:HB3	20:BU:58:GLY:H	1.61	0.41
21:BV:59:LEU:O	21:BV:60:GLU:HG2	2.21	0.41
23:BZ:37:ILE:O	23:BZ:37:ILE:HG22	2.20	0.41
30:B8:58:ILE:H	30:B8:58:ILE:HG12	1.51	0.41
31:CA:56:U:H2'	31:CA:57:G:H8	1.83	0.41
31:CA:76:G:H1'	31:CA:95:G:N2	2.35	0.41
31:CA:174:C:N4	31:CA:175:C:N4	2.68	0.41
31:CA:258:G:H2'	31:CA:259:G:C8	2.56	0.41
31:CA:315:A:H5''	31:CA:317:G:OP2	2.21	0.41
31:CA:468:A:C5	31:CA:474:G:C8	3.09	0.41
31:CA:557:G:C6	31:CA:558:G:C6	3.08	0.41
31:CA:618:C:H3'	31:CA:619:U:H5''	2.02	0.41
31:CA:663:A:O2'	31:CA:664:G:H5'	2.21	0.41
31:CA:769:G:H4'	31:CA:1513:A:H4'	2.02	0.41
31:CA:811:C:C5	31:CA:812:C:N4	2.89	0.41
31:CA:926:G:H5''	31:CA:927:G:O5'	2.21	0.41
31:CA:937:A:C5	31:CA:938:A:N7	2.88	0.41
31:CA:1033:G:H2'	31:CA:1034:G:H5'	2.02	0.41
31:CA:1076:C:C2	31:CA:1082:G:C2	3.08	0.41
31:CA:1123:A:O2'	40:CM:38:ILE:HG22	2.19	0.41
31:CA:1158:C:C2	31:CA:1160:G:C8	3.09	0.41
31:CA:1237:C:H4'	31:CA:1334:G:N2	2.35	0.41
31:CA:1266:G:N2	31:CA:1270:C:C2	2.88	0.41
31:CA:1460:A:H2'	31:CA:1461:G:O4'	2.21	0.41
32:CE:219:VAL:HA	32:CE:222:ILE:CD1	2.51	0.41
38:CK:26:VAL:O	38:CK:26:VAL:CG2	2.69	0.41
38:CK:120:THR:H	38:CK:123:GLU:HB3	1.86	0.41
41:CN:17:GLY:O	41:CN:80:VAL:HA	2.20	0.41
42:CO:46:ASN:HD22	42:CO:46:ASN:HA	1.70	0.41
42:CO:116:LYS:HB2	42:CO:117:TYR:CD1	2.56	0.41
46:CS:6:LEU:HD12	46:CS:19:ILE:HD13	2.03	0.41
46:CS:71:ARG:O	46:CS:75:ARG:N	2.53	0.41
47:CT:18:THR:HG22	47:CT:19:VAL:N	2.35	0.41
47:CT:34:LYS:HG2	47:CT:35:VAL:N	2.35	0.41
49:CV:41:VAL:HG12	49:CV:44:MET:C	2.46	0.41
53:CC:34:U:O2	53:CC:36:A:C8	2.73	0.41
53:CD:10:G:N1	53:CD:27:G:C2	2.89	0.41
31:DA:151:A:H2'	31:DA:152:A:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:509:A:H3'	31:DA:509:A:C8	2.56	0.41
31:DA:820:U:H4'	31:DA:821:G:OP2	2.20	0.41
31:DA:848:C:O2'	31:DA:849:C:H5'	2.20	0.41
31:DA:944:G:H5''	31:DA:945:G:OP2	2.21	0.41
31:DA:1104:G:C4	31:DA:1105:A:C8	3.08	0.41
31:DA:1298:C:C5	37:DJ:114:ARG:CZ	3.04	0.41
34:DG:63:LYS:HE3	34:DG:63:LYS:HB2	1.80	0.41
37:DJ:137:LYS:O	37:DJ:138:LYS:C	2.63	0.41
46:DS:11:SER:H	46:DS:14:ASN:HB3	1.86	0.41
48:DU:53:ARG:HH21	48:DU:60:ALA:H	1.60	0.41
53:DC:58:A:H2'	53:DC:59:A:H5'	2.02	0.41
53:DD:49:C:H6	53:DD:49:C:OP2	2.04	0.41
53:DD:59:A:O2'	53:DD:60:A:N7	2.54	0.41
1:AA:14:A:H8	1:AA:14:A:O5'	2.03	0.41
1:AA:273(A):G:C2	1:AA:364:C:C2	3.08	0.41
1:AA:503:A:C6	1:AA:505:A:C6	3.09	0.41
1:AA:989:G:C8	25:AX:13:ILE:HD11	2.56	0.41
1:AA:1087:G:H3'	1:AA:1087:G:OP2	2.21	0.41
1:AA:1292:U:H2'	1:AA:1293:C:H6	1.77	0.41
1:AA:1437:C:H2'	1:AA:1438:U:C6	2.53	0.41
1:AA:1479:G:C2'	1:AA:1480:G:H5'	2.51	0.41
1:AA:1537:C:H2'	1:AA:1538:G:H8	1.79	0.41
1:AA:1665:A:O2'	1:AA:1666:G:H5'	2.20	0.41
1:AA:1718:G:C2	1:AA:1725:G:C8	3.09	0.41
1:AA:1729:A:C5	1:AA:1731:G:C4	3.09	0.41
1:AA:1825:A:H2'	1:AA:1826:G:C8	2.55	0.41
1:AA:2168:G:H2'	1:AA:2169:A:OP1	2.21	0.41
1:AA:2656:U:O2	1:AA:2656:U:H2'	2.21	0.41
1:AA:2709:G:O2'	1:AA:2710:C:H5'	2.21	0.41
3:AD:239:ARG:O	3:AD:240:ALA:HB2	2.20	0.41
4:AE:80:GLU:C	4:AE:82:ARG:H	2.28	0.41
5:AF:40:GLN:HE22	5:AF:183:VAL:HG13	1.84	0.41
10:AN:5:GLN:NE2	10:AN:20:MET:HE2	2.35	0.41
13:A0:41:ALA:O	13:A0:42:LYS:C	2.63	0.41
17:A2:2:PHE:CD1	17:A2:2:PHE:C	2.97	0.41
21:AV:27:VAL:HG13	21:AV:87:ASP:HB3	2.02	0.41
21:AV:124:ILE:HA	21:AV:124:ILE:HD12	1.78	0.41
21:AV:171:ILE:O	21:AV:172:ALA:HB2	2.21	0.41
1:BA:71:A:C2	19:BT:31:HIS:CE1	3.09	0.41
1:BA:274:G:O4'	1:BA:274:G:P	2.79	0.41
1:BA:597:U:H2'	1:BA:598:G:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:616:A:C4	5:BF:180:GLY:HA2	2.55	0.41
1:BA:866:A:C6	1:BA:914:C:C5	3.08	0.41
1:BA:909:A:H2'	1:BA:912:C:H5	1.86	0.41
1:BA:1002:G:H2'	1:BA:1003:G:O4'	2.21	0.41
1:BA:1113:U:H2'	1:BA:1114:G:H8	1.85	0.41
1:BA:1165:U:O2'	1:BA:1166:C:H5'	2.21	0.41
1:BA:1174:A:N6	1:BA:1176:G:HO2'	2.17	0.41
1:BA:1231:G:H2'	1:BA:1232:G:C8	2.56	0.41
1:BA:1308:A:N6	1:BA:1309:G:C2	2.89	0.41
1:BA:1478:G:C2'	1:BA:1479:G:H5'	2.51	0.41
1:BA:2023:G:OP2	1:BA:2617:C:H4'	2.20	0.41
1:BA:2282:G:H5''	1:BA:2283:C:O4'	2.21	0.41
1:BA:2284:C:H2'	1:BA:2285:C:H6	1.85	0.41
1:BA:2290:G:H2'	1:BA:2291:U:O4'	2.21	0.41
1:BA:2386:C:H4'	22:B3:55:ARG:O	2.21	0.41
1:BA:2540:C:C2'	1:BA:2541:A:H5'	2.51	0.41
1:BA:2735:G:H2'	1:BA:2736:G:H8	1.85	0.41
1:BA:2776:A:C6	1:BA:2778:A:C6	3.09	0.41
2:BB:0:A:H2'	2:BB:1:U:H6	1.84	0.41
2:BB:8:U:O2'	14:BQ:40:ILE:HD13	2.21	0.41
2:BB:38:C:N4	2:BB:44:G:H1	2.16	0.41
5:BF:184:TYR:O	5:BF:188:ARG:HB2	2.20	0.41
6:BG:105:LYS:NZ	26:B4:24:THR:O	2.54	0.41
7:BH:3:ARG:HG3	7:BH:4:ILE:H	1.85	0.41
13:B0:37:THR:HG22	13:B0:40:LYS:CB	2.43	0.41
14:BQ:4:LEU:HD23	14:BQ:8:GLU:HB2	2.02	0.41
14:BQ:15:ARG:NH1	14:BQ:88:ASP:OD2	2.54	0.41
14:BQ:24:LEU:H	14:BQ:24:LEU:CD2	2.32	0.41
14:BQ:41:ASP:OD1	14:BQ:41:ASP:C	2.63	0.41
16:B1:8:VAL:HG12	16:B1:11:ARG:NH2	2.36	0.41
16:B1:112:ARG:H	16:B1:112:ARG:HG2	1.53	0.41
17:B2:27:ALA:O	17:B2:64:HIS:CE1	2.70	0.41
17:B2:80:GLN:HG3	17:B2:81:TYR:N	2.36	0.41
18:BS:7:ALA:O	18:BS:102:HIS:HA	2.21	0.41
19:BT:64:LYS:HB3	19:BT:64:LYS:HE2	1.88	0.41
21:BV:1:MET:HG2	21:BV:2:GLU:N	2.34	0.41
22:B3:29:GLN:HE21	22:B3:29:GLN:HB3	1.60	0.41
24:BW:33:MET:O	24:BW:37:PHE:HD1	2.03	0.41
26:B4:49:PHE:CE2	43:DP:62:ASN:HA	2.55	0.41
28:B6:45:LYS:CD	28:B6:45:LYS:N	2.84	0.41
31:CA:560:U:H4'	31:CA:561:U:O5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:823:G:H21	38:CK:1:MET:HE1	1.85	0.41
31:CA:986:A:C6	31:CA:987:G:C6	3.08	0.41
31:CA:1143:G:H8	31:CA:1143:G:O5'	2.03	0.41
31:CA:1153:C:H2'	31:CA:1154:G:O5'	2.20	0.41
31:CA:1158:C:C4	31:CA:1160:G:C4	3.09	0.41
31:CA:1365:G:C5	31:CA:1366:C:C5	3.09	0.41
32:CE:95:GLN:HG3	32:CE:147:LYS:HG2	2.03	0.41
34:CG:7:PRO:HB2	34:CG:10:ARG:CG	2.51	0.41
34:CG:89:THR:H	34:CG:92:VAL:HG23	1.85	0.41
34:CG:119:GLN:HG2	34:CG:123:HIS:CD2	2.56	0.41
34:CG:150:GLU:CD	34:CG:150:GLU:N	2.78	0.41
35:CH:67:VAL:HG21	35:CH:140:ARG:CA	2.48	0.41
36:CI:21:LEU:HD13	36:CI:21:LEU:HA	1.90	0.41
36:CI:44:GLY:HA2	36:CI:59:TYR:CE1	2.55	0.41
38:CK:48:TYR:CD2	38:CK:48:TYR:N	2.89	0.41
38:CK:114:THR:HG22	38:CK:130:GLY:O	2.21	0.41
40:CM:47:PHE:CE1	44:CQ:37:PHE:HE2	2.38	0.41
40:CM:50:ILE:CD1	40:CM:57:LYS:HD2	2.39	0.41
44:CQ:8:GLU:C	44:CQ:10:ALA:N	2.75	0.41
48:CU:53:ARG:NH2	48:CU:60:ALA:N	2.67	0.41
53:CC:6:G:C2	53:CC:69:C:C2	3.08	0.41
53:CC:33:C:C2'	53:CC:34:U:H5'	2.51	0.41
53:CD:8:U:H1'	53:CD:49:C:O4'	2.21	0.41
53:CD:20:G:H5''	53:CD:60:A:H61	1.85	0.41
31:DA:69:G:C2	31:DA:73:G:N7	2.89	0.41
31:DA:92:G:H2'	31:DA:93:U:O4'	2.21	0.41
31:DA:412:A:C2'	31:DA:413:G:OP2	2.68	0.41
31:DA:419:C:H5'	31:DA:420:U:OP2	2.21	0.41
31:DA:474:G:C4	31:DA:475:G:C8	3.09	0.41
31:DA:485:G:O2'	31:DA:486:U:P	2.78	0.41
31:DA:545:C:H2'	31:DA:546:G:H5'	2.02	0.41
31:DA:606:G:H22	31:DA:631:G:H2'	1.79	0.41
31:DA:634:C:H3'	31:DA:634:C:H6	1.85	0.41
31:DA:779:C:O2'	41:DN:120:ARG:HD3	2.21	0.41
31:DA:803:G:C5	31:DA:804:U:C4	3.09	0.41
31:DA:1186:G:H21	44:DQ:61:TRP:C	2.28	0.41
31:DA:1310:G:O2'	31:DA:1311:G:H5'	2.21	0.41
31:DA:1324:A:C6	31:DA:1325:C:C4	3.09	0.41
33:DF:29:TYR:CD1	44:DQ:36:PHE:CZ	3.08	0.41
33:DF:47:LEU:HD13	33:DF:47:LEU:C	2.46	0.41
35:DH:37:ARG:HA	35:DH:112:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DK:20:TYR:HA	38:DK:65:TYR:CE2	2.56	0.41
39:DL:40:LEU:N	39:DL:40:LEU:HD23	2.36	0.41
39:DL:86:VAL:HB	39:DL:96:LEU:HD22	2.03	0.41
40:DM:3:LYS:N	40:DM:74:ILE:O	2.54	0.41
47:DT:65:ILE:HD12	47:DT:65:ILE:N	2.36	0.41
52:DB:14:A:N3	52:DB:14:A:H2'	2.36	0.41
53:DC:19:G:C6	53:DC:59:A:C6	3.08	0.41
1:AA:155:C:N3	1:AA:171:G:N2	2.57	0.41
1:AA:230:U:OP2	1:AA:230:U:H6	2.04	0.41
1:AA:259:G:C2'	1:AA:621:A:O2'	2.68	0.41
1:AA:299:A:N6	1:AA:300:A:N1	2.69	0.41
1:AA:315:G:C6	1:AA:316:C:N3	2.88	0.41
1:AA:329:G:OP1	20:AU:71:LYS:HE3	2.20	0.41
1:AA:340:A:C2'	1:AA:341:G:H5'	2.50	0.41
1:AA:364:C:H5'	1:AA:364:C:H6	1.85	0.41
1:AA:540:G:H3'	1:AA:541:C:C6	2.52	0.41
1:AA:633:A:C8	1:AA:633:A:H3'	2.56	0.41
1:AA:649:G:C5	1:AA:650:C:C4	3.09	0.41
1:AA:719:C:H2'	1:AA:720:C:H6	1.84	0.41
1:AA:907:U:O2'	12:AP:101:ARG:NH2	2.42	0.41
1:AA:945:A:O2'	1:AA:946:G:C4'	2.68	0.41
1:AA:981:A:H1'	1:AA:2037:G:O4'	2.20	0.41
1:AA:989:G:OP2	25:AX:11:SER:OG	2.31	0.41
1:AA:994:C:H5''	1:AA:995:C:OP1	2.21	0.41
1:AA:1069:A:C4'	1:AA:1070:A:O5'	2.69	0.41
1:AA:1188:U:H2'	1:AA:1189:A:H5'	1.99	0.41
1:AA:1275:A:N3	1:AA:1276:A:H1'	2.36	0.41
1:AA:1385:G:O6	1:AA:1403:C:C4	2.74	0.41
1:AA:1538:G:N3	1:AA:1539:G:C8	2.89	0.41
1:AA:1606:G:H8	1:AA:1606:G:O5'	2.04	0.41
1:AA:1751:C:H2'	1:AA:1752:C:C6	2.52	0.41
1:AA:1833:U:C2	1:AA:1834:U:C6	3.08	0.41
1:AA:2000:G:C2	1:AA:2001:A:C8	3.08	0.41
1:AA:2058:A:C6	1:AA:2059:A:N6	2.89	0.41
1:AA:2077:A:O2'	1:AA:2078:C:H5'	2.20	0.41
1:AA:2147:G:C8	1:AA:2147:G:H3'	2.56	0.41
1:AA:2154:G:C2	1:AA:2155:G:C5	3.08	0.41
1:AA:2250:G:C2	12:AP:83:MET:HB2	2.56	0.41
1:AA:2287:A:N1	1:AA:2346:A:C2	2.89	0.41
1:AA:2295:C:H1'	1:AA:2338:G:N2	2.36	0.41
1:AA:2439:A:C8	1:AA:2439:A:C5'	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2442:C:H2'	1:AA:2443:C:C6	2.56	0.41
1:AA:2468:G:O2'	1:AA:2481:G:N2	2.54	0.41
1:AA:2469:A:O2'	12:AP:56:ARG:CZ	2.69	0.41
1:AA:2472:G:N2	1:AA:2477:C:C5'	2.84	0.41
1:AA:2540:C:H2'	1:AA:2541:A:O4'	2.20	0.41
1:AA:2584:U:O2	1:AA:2584:U:O4'	2.39	0.41
1:AA:2591:C:OP2	3:AD:238:GLY:O	2.39	0.41
1:AA:2594:C:H2'	1:AA:2595:G:H8	1.85	0.41
1:AA:2616:C:O2	1:AA:2616:C:H2'	2.21	0.41
1:AA:2805:G:C6	1:AA:2807:G:C6	3.09	0.41
1:AA:2831:G:O4'	1:AA:2883:A:C2	2.74	0.41
2:AB:13:A:O2'	2:AB:14:U:H3'	2.19	0.41
2:AB:35:U:H2'	2:AB:36:C:H6	1.85	0.41
2:AB:37:C:C5	2:AB:38:C:C4	3.09	0.41
3:AD:35:LYS:HZ2	3:AD:64:ILE:C	2.19	0.41
3:AD:85:ASP:OD2	3:AD:88:ARG:NH1	2.46	0.41
3:AD:108:PRO:HG3	3:AD:143:HIS:HE1	1.78	0.41
3:AD:211:ARG:HD2	3:AD:214:TRP:CZ3	2.56	0.41
4:AE:14:ILE:CD1	15:AR:14:TYR:OH	2.67	0.41
5:AF:9:ILE:HA	5:AF:10:PRO:HD3	1.87	0.41
5:AF:24:LEU:CD2	5:AF:115:ALA:HA	2.50	0.41
5:AF:108:LYS:O	5:AF:112:MET:HG3	2.20	0.41
5:AF:153:SER:H	5:AF:190:GLU:HG3	1.86	0.41
6:AG:40:ASN:HD22	6:AG:91:ARG:HB2	1.85	0.41
6:AG:115:ARG:O	6:AG:116:ASP:HB2	2.21	0.41
7:AH:87:LEU:HA	7:AH:87:LEU:HD23	1.81	0.41
8:AK:33:ARG:O	8:AK:35:LEU:HD23	2.21	0.41
8:AK:88:ILE:HD11	8:AK:122:GLU:O	2.21	0.41
8:AK:110:ASP:N	8:AK:130:TYR:OH	2.54	0.41
8:AK:118:LYS:HA	8:AK:118:LYS:HD2	1.65	0.41
10:AN:64:ARG:HG2	10:AN:79:PHE:CG	2.56	0.41
11:AO:62:LEU:HD23	11:AO:62:LEU:O	2.21	0.41
11:AO:102:ARG:O	11:AO:103:ALA:C	2.64	0.41
11:AO:120:ALA:HB1	11:AO:138:LEU:CB	2.49	0.41
12:AP:26:TYR:O	12:AP:26:TYR:CG	2.74	0.41
12:AP:52:VAL:HA	12:AP:55:VAL:HG22	2.02	0.41
12:AP:103:MET:HE2	12:AP:103:MET:HB2	1.95	0.41
14:AQ:10:ARG:HA	14:AQ:13:ARG:HB3	2.03	0.41
14:AQ:102:ALA:C	14:AQ:104:GLY:H	2.28	0.41
15:AR:23:ARG:O	15:AR:24:PRO:C	2.63	0.41
15:AR:108:ARG:HA	15:AR:111:ARG:HH21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:19:LEU:HA	18:AS:19:LEU:HD12	1.80	0.41
19:AT:26:TYR:HB3	19:AT:92:LEU:HD12	2.02	0.41
20:AU:9:LYS:HA	20:AU:27:VAL:CG2	2.51	0.41
20:AU:81:LYS:CE	20:AU:96:ILE:HD12	2.51	0.41
21:AV:61:LEU:C	21:AV:62:PRO:O	2.63	0.41
21:AV:155:LEU:HD23	21:AV:155:LEU:HA	1.83	0.41
24:AW:15:LYS:N	24:AW:67:LYS:HZ1	2.11	0.41
27:A5:38:ALA:HB3	27:A5:40:LYS:HE3	2.02	0.41
27:A5:51:TYR:O	27:A5:56:LYS:HE3	2.21	0.41
28:A6:25:LYS:NZ	28:A6:27:LYS:HD3	2.26	0.41
30:A8:26:LYS:CB	30:A8:44:LYS:HG3	2.49	0.41
1:BA:84:A:N1	1:BA:98:G:O2'	2.48	0.41
1:BA:249:C:H4'	1:BA:250:G:O5'	2.21	0.41
1:BA:321:G:H5'	5:BF:134:GLY:O	2.20	0.41
1:BA:448:U:C4	1:BA:583:G:H1'	2.56	0.41
1:BA:532:A:C8	1:BA:2021:C:C6	3.08	0.41
1:BA:566:U:H2'	1:BA:567:A:O4'	2.20	0.41
1:BA:571:A:H5'	1:BA:2030:A:N7	2.36	0.41
1:BA:852:G:C6	1:BA:926:A:C6	3.08	0.41
1:BA:908:C:OP1	12:BP:22:LYS:HB3	2.20	0.41
1:BA:921:G:H4'	1:BA:2269:A:C5	2.56	0.41
1:BA:978:G:C2	1:BA:986:C:C2	3.08	0.41
1:BA:997:G:C2'	1:BA:998:C:H5'	2.51	0.41
1:BA:1105:U:C2'	1:BA:1106:G:H5'	2.51	0.41
1:BA:1140:C:C4'	1:BA:1143:A:N7	2.84	0.41
1:BA:1223:C:O2'	1:BA:1224:G:H5'	2.20	0.41
1:BA:1244:G:H4'	11:BO:7:ARG:HA	2.03	0.41
1:BA:1245:G:H5''	5:BF:34:TRP:HZ2	1.86	0.41
1:BA:1338:G:N3	1:BA:1393:A:H2	2.19	0.41
1:BA:1392:A:C6	1:BA:1393:A:C6	3.08	0.41
1:BA:1406:U:N3	1:BA:1597:A:C2	2.89	0.41
1:BA:1442:G:C2	1:BA:1550:C:O2	2.74	0.41
1:BA:1827:C:H2'	1:BA:1828:G:H5'	2.02	0.41
1:BA:1887:C:H3'	1:BA:1888:G:H5''	2.02	0.41
1:BA:1895:C:H2'	1:BA:1896:G:O4'	2.21	0.41
1:BA:1932:A:H61	1:BA:1968:G:H1'	1.86	0.41
1:BA:1955:U:O2	1:BA:1955:U:H2'	2.20	0.41
1:BA:1983:C:H4'	1:BA:2606:C:H4'	2.03	0.41
1:BA:2064:C:H2'	1:BA:2065:C:C6	2.56	0.41
1:BA:2078:C:O2'	1:BA:2079:U:H5'	2.21	0.41
1:BA:2110:G:HO2'	1:BA:2120:G:P	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:2121:G:H2'	1:BA:2122:U:C6	2.55	0.41
1:BA:2157:G:H2'	1:BA:2158:A:C8	2.51	0.41
1:BA:2187:G:C6	1:BA:2188:C:N3	2.89	0.41
1:BA:2212:A:H1'	1:BA:2215:G:C4	2.56	0.41
1:BA:2273:A:H2'	1:BA:2274:A:C8	2.56	0.41
1:BA:2378:A:H5''	14:BQ:23:ARG:NH1	2.36	0.41
1:BA:2400:G:N2	1:BA:2417:C:C2	2.89	0.41
1:BA:2477:C:H1'	1:BA:2481:G:O6	2.21	0.41
1:BA:2572:A:N7	4:BE:145:LYS:HB2	2.36	0.41
1:BA:2689:U:C5'	1:BA:2690:C:H5'	2.50	0.41
1:BA:2691:C:H2'	1:BA:2692:C:H6	1.84	0.41
1:BA:2747:G:C6	1:BA:2754:U:C5	3.09	0.41
1:BA:2766:G:H5''	1:BA:2767:C:OP2	2.21	0.41
1:BA:2811:G:N2	1:BA:2891:G:H1'	2.36	0.41
1:BA:2884:U:C2'	1:BA:2885:C:H5'	2.50	0.41
2:BB:38:C:C4	2:BB:39:A:N7	2.89	0.41
2:BB:47:C:H2'	2:BB:48:A:H5'	2.03	0.41
2:BB:49:C:H2'	2:BB:50:G:C8	2.56	0.41
2:BB:70:C:C2	2:BB:71:C:C6	3.09	0.41
3:BD:34:VAL:HG21	3:BD:103:ARG:HA	2.03	0.41
3:BD:85:ASP:HB2	3:BD:92:ILE:HD13	2.02	0.41
3:BD:210:GLY:O	3:BD:213:ARG:HB2	2.21	0.41
4:BE:2:LYS:HA	4:BE:84:PHE:CD2	2.56	0.41
4:BE:36:ARG:HG2	4:BE:36:ARG:NH1	2.24	0.41
4:BE:55:ASN:HB3	4:BE:72:VAL:O	2.21	0.41
5:BF:82:ILE:HD12	5:BF:82:ILE:N	2.35	0.41
5:BF:167:ALA:HA	5:BF:170:LEU:HD12	2.02	0.41
6:BG:7:LEU:HD12	6:BG:104:GLU:HA	2.02	0.41
6:BG:106:LEU:O	6:BG:110:ALA:HB3	2.20	0.41
6:BG:113:ARG:HH21	43:DP:3:ARG:HH11	1.68	0.41
7:BH:137:ASP:OD2	7:BH:140:LYS:HG3	2.21	0.41
9:BM:96:GLU:O	9:BM:100:GLU:HG3	2.21	0.41
10:BN:111:PHE:CD2	10:BN:111:PHE:N	2.89	0.41
11:BO:144:GLU:O	11:BO:144:GLU:CD	2.64	0.41
12:BP:11:LYS:HD3	12:BP:87:LYS:CG	2.42	0.41
12:BP:12:GLN:HE21	12:BP:73:PRO:CD	2.33	0.41
12:BP:27:VAL:HG11	12:BP:134:ARG:HB2	2.02	0.41
12:BP:51:ARG:C	12:BP:53:ALA:N	2.79	0.41
12:BP:64:ILE:H	12:BP:64:ILE:HG12	1.62	0.41
18:BS:55:ALA:O	18:BS:56:ALA:C	2.61	0.41
18:BS:59:VAL:HG13	18:BS:60:ASN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BT:14:SER:O	19:BT:15:GLU:C	2.64	0.41
19:BT:55:ASN:O	19:BT:79:ALA:HA	2.20	0.41
20:BU:13:VAL:HG21	20:BU:72:VAL:CB	2.24	0.41
21:BV:148:ASP:O	21:BV:149:SER:CB	2.69	0.41
22:B3:45:PHE:HE2	22:B3:69:PHE:HE2	1.69	0.41
23:BZ:72:GLU:O	23:BZ:76:ARG:HG2	2.21	0.41
25:BX:12:PRO:O	25:BX:13:ILE:C	2.64	0.41
25:BX:23:LEU:HD23	25:BX:28:LEU:HD12	2.03	0.41
27:B5:41:PRO:HA	27:B5:42:PRO:HD3	1.97	0.41
28:B6:36:LEU:HA	28:B6:49:HIS:O	2.21	0.41
29:B7:48:LYS:H	29:B7:48:LYS:HG3	1.77	0.41
31:CA:255:G:O6	31:CA:266:G:O6	2.39	0.41
31:CA:491:G:H2'	31:CA:492:G:C8	2.55	0.41
31:CA:498:A:C4'	31:CA:500:G:OP1	2.64	0.41
31:CA:506:G:H2'	31:CA:507:C:O4'	2.20	0.41
31:CA:595:G:H1'	31:CA:596:C:H5	1.86	0.41
31:CA:711:G:C2'	31:CA:712:A:H5'	2.51	0.41
31:CA:745:C:OP1	31:CA:851:G:O2'	2.39	0.41
31:CA:782:A:H4'	31:CA:1514:C:O2'	2.20	0.41
31:CA:822:C:O2'	31:CA:823:G:H5'	2.20	0.41
31:CA:892:A:H2'	31:CA:893:C:C6	2.55	0.41
31:CA:1098:C:N3	31:CA:1099:G:C8	2.89	0.41
31:CA:1131:G:OP2	31:CA:1131:G:H8	2.04	0.41
31:CA:1154:G:H2'	31:CA:1155:G:O4'	2.21	0.41
31:CA:1237:C:HO2'	31:CA:1300:G:H1	1.66	0.41
31:CA:1240:U:OP2	37:CJ:116:ALA:HB2	2.21	0.41
31:CA:1369:C:H2'	31:CA:1370:G:O4'	2.21	0.41
32:CE:55:PHE:O	32:CE:58:ILE:N	2.53	0.41
34:CG:8:VAL:HG21	34:CG:115:ARG:NH2	2.36	0.41
34:CG:58:LEU:C	34:CG:58:LEU:CD2	2.93	0.41
34:CG:88:VAL:C	34:CG:90:GLY:H	2.28	0.41
36:CI:15:ASP:OD1	36:CI:15:ASP:C	2.64	0.41
37:CJ:5:ARG:CG	37:CJ:7:ALA:H	2.30	0.41
38:CK:75:ARG:HE	38:CK:75:ARG:HB2	1.60	0.41
41:CN:34:ASP:HB2	41:CN:35:PRO:HD2	2.02	0.41
41:CN:80:VAL:HG13	41:CN:103:LEU:CD1	2.50	0.41
41:CN:111:ASP:O	41:CN:112:THR:C	2.64	0.41
42:CO:31:ARG:HG3	42:CO:32:GLY:N	2.36	0.41
45:CR:66:LEU:HA	45:CR:66:LEU:HD12	1.66	0.41
49:CV:41:VAL:CG2	49:CV:67:VAL:HA	2.51	0.41
50:CW:35:THR:O	50:CW:38:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:25:A:C6	52:CB:26:C:C4	3.09	0.41
52:CB:41:G:C5	52:CB:42:U:C5	3.08	0.41
53:CD:8:U:C5	53:CD:13:C:C4	3.08	0.41
31:DA:116:A:OP2	31:DA:116:A:C8	2.74	0.41
31:DA:301:G:H2'	31:DA:302:G:H8	1.85	0.41
31:DA:338:A:C5	31:DA:339:C:C5	3.08	0.41
31:DA:428:G:O4'	31:DA:430:A:C8	2.74	0.41
31:DA:731:G:H5'	31:DA:766:A:H4'	2.01	0.41
31:DA:740:U:O3'	45:DR:39:LEU:HD23	2.21	0.41
31:DA:937:A:H1'	31:DA:1379:G:H22	1.85	0.41
31:DA:1022:G:C2	31:DA:1023:G:H1'	2.56	0.41
31:DA:1036:G:H5'	31:DA:1037:C:OP2	2.21	0.41
31:DA:1058:G:C6	31:DA:1059:C:N3	2.89	0.41
31:DA:1093:A:C5	31:DA:1095:U:O4'	2.74	0.41
31:DA:1215:G:C6	31:DA:1216:G:N7	2.89	0.41
31:DA:1226:C:H4'	49:DV:80:TYR:CZ	2.55	0.41
31:DA:1235:U:H2'	31:DA:1236:A:O4'	2.21	0.41
31:DA:1237:C:O2'	31:DA:1300:G:N2	2.49	0.41
31:DA:1238:A:N6	31:DA:1299:A:N6	2.69	0.41
31:DA:1245:A:C6	31:DA:1293:G:N1	2.88	0.41
31:DA:1251:A:H5''	39:DL:12:GLU:OE1	2.20	0.41
31:DA:1328:C:H2'	31:DA:1329:A:H5'	2.02	0.41
31:DA:1330:U:H5'	31:DA:1331:G:P	2.61	0.41
31:DA:1363:A:H1'	31:DA:1365:G:N7	2.35	0.41
31:DA:1442:G:O6	31:DA:1446:A:N1	2.54	0.41
31:DA:1449:C:H2'	31:DA:1450:U:OP1	2.21	0.41
32:DE:114:ARG:NH2	32:DE:117:GLU:OE1	2.54	0.41
33:DF:73:PRO:HA	33:DF:76:VAL:HG13	2.03	0.41
33:DF:82:GLU:H	33:DF:85:ARG:HB2	1.86	0.41
33:DF:164:ARG:CG	33:DF:165:THR:N	2.84	0.41
35:DH:32:VAL:HB	35:DH:58:ALA:HB1	2.02	0.41
35:DH:51:VAL:CB	35:DH:52:PRO:HD3	2.44	0.41
35:DH:59:GLY:O	35:DH:60:TYR:C	2.64	0.41
36:DI:9:VAL:HA	36:DI:59:TYR:O	2.21	0.41
36:DI:10:LEU:CD1	36:DI:61:LEU:HD13	2.51	0.41
36:DI:63:TYR:CD2	36:DI:63:TYR:N	2.88	0.41
37:DJ:125:MET:O	37:DJ:126:ASP:C	2.64	0.41
38:DK:39:LEU:HB3	38:DK:45:ILE:HD11	2.03	0.41
38:DK:119:LEU:HD12	38:DK:124:ALA:HA	2.02	0.41
39:DL:49:PRO:O	39:DL:53:VAL:HG22	2.21	0.41
42:DO:79:GLU:HG3	42:DO:80:HIS:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DW:29:LYS:O	50:DW:33:ILE:HG12	2.21	0.41
50:DW:56:MET:HE3	50:DW:104:LEU:HD11	2.02	0.41
52:DB:9:G:H5''	52:DB:9:G:N3	2.36	0.41
53:DC:20:G:C2	53:DC:58:A:C2	3.09	0.41
53:DC:44:A:H2'	53:DC:45:A:C8	2.56	0.41
53:DD:8:U:C5	53:DD:13:C:N4	2.89	0.41
1:AA:270(D):C:C2	1:AA:270(W):G:C2	3.09	0.41
1:AA:690:G:H2'	1:AA:691:C:O4'	2.21	0.41
1:AA:893:C:N4	1:AA:894:C:N4	2.69	0.41
1:AA:917:A:H2'	1:AA:918:A:H5'	2.03	0.41
1:AA:953:A:C2	1:AA:954:G:C8	3.09	0.41
1:AA:1161:C:H4'	17:A2:8:GLY:HA2	2.02	0.41
1:AA:1277:G:H2'	1:AA:1278:A:O4'	2.20	0.41
1:AA:1357:U:C4	1:AA:1358:G:C5	3.08	0.41
1:AA:1536:A:C2'	1:AA:1537:C:OP1	2.69	0.41
1:AA:1782:C:H2'	1:AA:2608:G:O2'	2.21	0.41
1:AA:1869:G:N2	1:AA:1872:A:OP2	2.50	0.41
1:AA:1904:G:C2'	1:AA:1905:C:O5'	2.69	0.41
1:AA:2309:A:N7	1:AA:2310:A:N7	2.64	0.41
1:AA:2772:C:C2	1:AA:2773:C:C5	3.09	0.41
1:AA:2820:A:O3'	13:A0:3:HIS:CE1	2.74	0.41
1:AA:2829:C:C3'	1:AA:2830:G:H5''	2.50	0.41
3:AD:44:ASN:HB3	3:AD:49:ILE:HA	2.02	0.41
4:AE:35:GLN:HB3	4:AE:48:GLN:HB2	2.02	0.41
4:AE:92:THR:O	4:AE:95:ILE:CG1	2.68	0.41
6:AG:6:ALA:HB3	26:A4:23:GLU:HG3	2.03	0.41
6:AG:161:THR:HG22	6:AG:162:THR:N	2.35	0.41
7:AH:143:GLN:C	7:AH:143:GLN:NE2	2.79	0.41
8:AK:73:GLU:HG3	8:AK:137:PRO:HG2	2.03	0.41
11:AO:131:SER:O	11:AO:132:LYS:C	2.64	0.41
14:AQ:48:LEU:HD23	14:AQ:82:ILE:HD11	2.01	0.41
14:AQ:62:LYS:H	14:AQ:62:LYS:HG2	1.61	0.41
15:AR:22:PHE:HD1	15:AR:49:VAL:HG11	1.85	0.41
15:AR:113:LYS:HD2	15:AR:113:LYS:HA	1.87	0.41
21:AV:132:ASN:OD1	21:AV:160:GLY:HA2	2.21	0.41
30:A8:34:TRP:CD1	30:A8:35:GLN:H	2.36	0.41
1:BA:30:G:C5	1:BA:31:C:C4	3.08	0.41
1:BA:48:G:C6	1:BA:178:G:O6	2.74	0.41
1:BA:89:G:H3'	1:BA:90:U:C5'	2.50	0.41
1:BA:329:G:C4'	1:BA:330:A:OP2	2.69	0.41
1:BA:847:U:O4	1:BA:933:A:C6	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:875:G:N2	1:BA:903:C:C2	2.89	0.41
1:BA:900:A:C4	1:BA:901:A:C8	3.09	0.41
1:BA:1041:C:H2'	1:BA:1042:G:H8	1.86	0.41
1:BA:1084:A:H5''	1:BA:1085:A:P	2.61	0.41
1:BA:1098:A:O5'	1:BA:1098:A:H8	2.04	0.41
1:BA:1301:A:C8	1:BA:1303:G:C8	3.08	0.41
1:BA:1385:G:HO2'	1:BA:1396:U:H6	1.65	0.41
1:BA:1619:G:N3	1:BA:1619:G:H2'	2.35	0.41
1:BA:1841:U:H2'	1:BA:1842:G:H8	1.84	0.41
1:BA:2115:G:H1'	1:BA:2171:A:C6	2.56	0.41
1:BA:2270:G:O6	1:BA:2271:G:C2	2.74	0.41
1:BA:2304:G:O2'	1:BA:2305:A:O5'	2.38	0.41
1:BA:2472:G:N1	1:BA:2477:C:OP1	2.53	0.41
1:BA:2657:A:C2	1:BA:2665:A:C8	3.09	0.41
1:BA:2702:U:H4'	1:BA:2703:C:OP1	2.20	0.41
3:BD:70:TRP:O	3:BD:73:VAL:HG23	2.21	0.41
5:BF:3:GLU:HA	5:BF:24:LEU:CD2	2.48	0.41
5:BF:8:GLN:HA	5:BF:15:SER:HA	2.02	0.41
6:BG:59:GLU:OE1	6:BG:153:ARG:NH2	2.44	0.41
6:BG:119:GLY:HA3	6:BG:181:ARG:N	2.35	0.41
11:BO:71:VAL:N	11:BO:72:PRO:CD	2.84	0.41
12:BP:16:ARG:C	12:BP:17:LEU:HD23	2.46	0.41
15:BR:118:ARG:NH1	31:DA:1446:A:C6	2.89	0.41
20:BU:35:TYR:CE1	20:BU:69:ALA:HB3	2.56	0.41
20:BU:63:LYS:O	20:BU:64:GLU:C	2.63	0.41
21:BV:67:LEU:HA	21:BV:68:PRO:HD2	1.99	0.41
22:B3:68:GLU:OE1	22:B3:82:ARG:HG3	2.21	0.41
28:B6:31:PRO:HB2	28:B6:33:LYS:CB	2.50	0.41
31:CA:66:G:H22	31:CA:172:A:H2	1.68	0.41
31:CA:185:A:H2'	31:CA:186:C:C6	2.56	0.41
31:CA:300:A:H2'	31:CA:301:G:O4'	2.21	0.41
31:CA:390:C:H4'	46:CS:28:ARG:HH21	1.86	0.41
31:CA:401:C:H2'	31:CA:402:G:O4'	2.21	0.41
31:CA:411:A:C5	31:CA:429:U:C5	3.09	0.41
31:CA:509:A:H4'	31:CA:510:A:OP1	2.21	0.41
31:CA:565:U:H3'	31:CA:566:G:H2'	2.02	0.41
31:CA:825:G:C5	31:CA:826:C:C5	3.09	0.41
31:CA:1004:A:N9	31:CA:1025:U:O2	2.54	0.41
31:CA:1004:A:N9	31:CA:1025:U:C2	2.89	0.41
31:CA:1006:C:O2'	31:CA:1007:C:H5'	2.21	0.41
31:CA:1070:U:H2'	31:CA:1071:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:1249:C:O2'	39:CL:73:GLN:OE1	2.35	0.41
31:CA:1275:A:N6	31:CA:1276:G:C6	2.89	0.41
31:CA:1306:A:N1	31:CA:1307:U:C2	2.88	0.41
32:CE:32:ILE:HD11	32:CE:40:HIS:CB	2.32	0.41
33:CF:141:VAL:HG11	33:CF:202:ILE:HD13	2.03	0.41
34:CG:15:GLU:OE1	34:CG:66:ARG:NH1	2.53	0.41
36:CI:52:ILE:HD13	36:CI:87:ARG:HG3	2.02	0.41
39:CL:116:LYS:HA	39:CL:123:PRO:HD3	2.03	0.41
40:CM:55:LYS:C	40:CM:56:HIS:CG	2.99	0.41
40:CM:90:LEU:N	40:CM:91:PRO:CD	2.84	0.41
49:CV:18:LYS:HZ3	49:CV:29:ARG:NH1	2.19	0.41
53:CC:17:C:O2	53:CC:18:C:C4	2.74	0.41
31:DA:41:G:H2'	31:DA:42:G:H8	1.84	0.41
31:DA:300:A:H8	31:DA:300:A:O5'	2.04	0.41
31:DA:467:G:C6	31:DA:468:A:C5	3.09	0.41
31:DA:629:G:C4	31:DA:630:G:C8	3.08	0.41
31:DA:721:G:H4'	31:DA:722:A:O5'	2.21	0.41
31:DA:1023:G:N1	31:DA:1024:G:C8	2.89	0.41
31:DA:1126:U:C1'	31:DA:1127:G:P	3.09	0.41
31:DA:1151:A:N6	31:DA:1152:A:N6	2.69	0.41
31:DA:1190:G:H3'	33:DF:3:ASN:HD22	1.86	0.41
31:DA:1315:U:O4	31:DA:1316:G:C2	2.74	0.41
31:DA:1325:C:OP1	51:DX:15:ARG:HD2	2.21	0.41
31:DA:1360:A:O2'	31:DA:1361:G:H5'	2.20	0.41
32:DE:21:ARG:HB3	32:DE:39:ILE:H	1.86	0.41
32:DE:223:ILE:HG23	32:DE:227:GLY:O	2.21	0.41
33:DF:16:ARG:HH11	33:DF:16:ARG:CA	2.33	0.41
33:DF:16:ARG:HG3	33:DF:17:ASP:O	2.21	0.41
33:DF:164:ARG:CG	33:DF:165:THR:H	2.33	0.41
36:DI:44:GLY:HA2	36:DI:59:TYR:CE1	2.56	0.41
38:DK:104:ARG:O	38:DK:105:ARG:C	2.64	0.41
39:DL:8:GLY:HA3	39:DL:79:LEU:HB3	2.02	0.41
42:DO:47:LYS:HB3	42:DO:48:PRO:CD	2.43	0.41
46:DS:18:ARG:HD3	46:DS:35:LYS:HE3	2.02	0.41
50:DW:67:ALA:O	50:DW:73:HIS:CG	2.74	0.41
53:DC:30:G:C4	53:DC:31:G:C8	3.09	0.41
1:AA:128:C:H2'	1:AA:129:C:C6	2.56	0.40
1:AA:236:C:H2'	1:AA:237:C:H6	1.84	0.40
1:AA:270(G):C:H2'	1:AA:270(H):C:H6	1.86	0.40
1:AA:350:U:H2'	1:AA:351:G:O4'	2.21	0.40
1:AA:515:A:H2	1:AA:1260:G:N3	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:558:G:OP1	9:AM:111:PRO:HD2	2.21	0.40
1:AA:861:A:H2'	1:AA:862:G:H5'	2.02	0.40
1:AA:862:G:H2'	1:AA:863:A:O4'	2.20	0.40
1:AA:878:A:C2	1:AA:879:G:C4	3.09	0.40
1:AA:950:G:C6	1:AA:951:C:C4	3.09	0.40
1:AA:1087:G:C2	1:AA:1089:G:O2'	2.73	0.40
1:AA:1175:U:H4'	1:AA:1176:G:OP1	2.21	0.40
1:AA:1181:C:O2'	1:AA:1182:A:H5'	2.20	0.40
1:AA:1337:G:H2'	1:AA:1338:G:C8	2.54	0.40
1:AA:1518:C:O2'	1:AA:1519:G:H5'	2.21	0.40
1:AA:1799:G:H5'	1:AA:1819:A:H61	1.86	0.40
1:AA:1863:G:H2'	1:AA:1864:U:O4'	2.22	0.40
1:AA:2469:A:C5	1:AA:2470:G:H1'	2.56	0.40
1:AA:2512:C:H2'	1:AA:2513:G:O4'	2.20	0.40
1:AA:2555:U:C5	1:AA:2556:C:C6	3.09	0.40
1:AA:2839:G:C5'	13:A0:46:GLY:HA2	2.52	0.40
2:AB:42:C:O2'	6:AG:67:LYS:HE3	2.21	0.40
2:AB:88:C:H2'	2:AB:89:G:C1'	2.51	0.40
3:AD:35:LYS:CA	3:AD:64:ILE:CG2	2.99	0.40
3:AD:65:ILE:CG1	3:AD:67:PHE:CZ	3.03	0.40
8:AK:103:ARG:HD2	8:AK:103:ARG:H	1.86	0.40
9:AM:46:VAL:O	9:AM:47:ALA:CB	2.69	0.40
9:AM:103:VAL:O	9:AM:106:MET:N	2.50	0.40
10:AN:22:ILE:N	10:AN:40:VAL:O	2.49	0.40
10:AN:110:GLY:HA2	10:AN:112:MET:HE2	2.03	0.40
11:AO:39:LYS:CA	11:AO:45:LEU:HD22	2.51	0.40
11:AO:60:MET:HG3	11:AO:60:MET:O	2.21	0.40
16:A1:30:LYS:HA	16:A1:30:LYS:HD3	1.81	0.40
20:AU:26:LYS:C	20:AU:39:VAL:HG13	2.46	0.40
20:AU:96:ILE:CG2	20:AU:101:LYS:HG2	2.40	0.40
26:A4:10:VAL:CG2	26:A4:11:PRO:HD2	2.44	0.40
26:A4:37:SER:HB3	26:A4:42:PHE:HD1	1.85	0.40
28:A6:51:GLU:HG2	28:A6:52:VAL:N	2.36	0.40
30:A8:29:LYS:HZ3	30:A8:44:LYS:HB2	1.83	0.40
1:BA:78:A:C6	1:BA:79:G:C6	3.09	0.40
1:BA:142:G:H1'	19:BT:37:THR:HG22	2.02	0.40
1:BA:292:C:C2'	1:BA:293:U:H5'	2.51	0.40
1:BA:856:C:O2'	1:BA:857:C:P	2.79	0.40
1:BA:866:A:N6	1:BA:914:C:C5	2.89	0.40
1:BA:945:A:N1	1:BA:2448:A:C4	2.89	0.40
1:BA:1207:C:H2'	1:BA:1208:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1300:U:C4'	1:BA:1301:A:OP2	2.68	0.40
1:BA:1569:A:HO2'	3:BD:38:LYS:HG3	1.86	0.40
1:BA:1750:G:H2'	1:BA:1751:C:H6	1.86	0.40
1:BA:2228:G:OP1	3:BD:261:LYS:NZ	2.52	0.40
1:BA:2286:A:H5'	28:B6:28:ARG:NE	2.35	0.40
1:BA:2377:A:H4'	14:BQ:111:GLU:O	2.21	0.40
1:BA:2564:A:C6	1:BA:2565:A:N1	2.89	0.40
1:BA:2754:U:H6	1:BA:2754:U:H5''	1.86	0.40
4:BE:13:ARG:O	15:BR:57:PHE:HE1	2.04	0.40
4:BE:44:TYR:CG	4:BE:45:THR:N	2.89	0.40
4:BE:70:ALA:O	4:BE:72:VAL:HG23	2.21	0.40
8:BK:2:LYS:O	8:BK:3:VAL:HG13	2.21	0.40
10:BN:98:VAL:HG22	10:BN:118:ALA:HA	2.03	0.40
11:BO:21:ARG:CA	11:BO:21:ARG:HE	2.34	0.40
11:BO:62:LEU:HD23	11:BO:62:LEU:O	2.21	0.40
14:BQ:48:LEU:O	14:BQ:49:VAL:HG23	2.21	0.40
15:BR:90:GLN:HG3	15:BR:91:ARG:N	2.36	0.40
16:B1:71:GLN:NE2	16:B1:71:GLN:HA	2.36	0.40
16:B1:90:VAL:HG11	17:B2:40:LEU:HD13	2.01	0.40
20:BU:48:ALA:HB3	20:BU:59:GLY:HA2	2.03	0.40
20:BU:61:ILE:CG2	20:BU:62:GLU:H	2.31	0.40
24:BW:53:LEU:O	24:BW:56:GLN:HB2	2.20	0.40
24:BW:64:LEU:O	24:BW:64:LEU:HD23	2.21	0.40
31:CA:194:C:O3'	50:CW:68:LYS:HD3	2.21	0.40
31:CA:880:C:P	42:CO:5:ASN:HD22	2.44	0.40
31:CA:956:U:O2'	31:CA:957:U:H5'	2.21	0.40
31:CA:973:G:OP1	40:CM:57:LYS:HD3	2.21	0.40
31:CA:1003:G:N2	31:CA:1004:A:O2'	2.53	0.40
31:CA:1164:G:N3	31:CA:1173:G:C2	2.90	0.40
32:CE:19:HIS:HD2	32:CE:20:GLU:OE2	2.04	0.40
32:CE:76:GLN:HB3	32:CE:211:ILE:CD1	2.50	0.40
33:CF:44:GLU:OE1	33:CF:44:GLU:HA	2.20	0.40
37:CJ:137:LYS:O	37:CJ:138:LYS:C	2.62	0.40
39:CL:83:ARG:C	39:CL:86:VAL:HG12	2.46	0.40
40:CM:54:PHE:CD2	40:CM:55:LYS:NZ	2.89	0.40
49:CV:51:VAL:O	49:CV:58:VAL:N	2.44	0.40
49:CV:63:THR:O	49:CV:66:MET:HG3	2.21	0.40
52:CB:7:G:O6	52:CB:60:A:N6	2.54	0.40
52:CB:29:U:H2'	52:CB:30:A:C8	2.57	0.40
31:DA:373:A:H2'	31:DA:374:A:H8	1.84	0.40
31:DA:406:G:C2	31:DA:407:G:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:458:C:N4	31:DA:475:G:N1	2.70	0.40
31:DA:719:C:C5	31:DA:720:C:C4	3.08	0.40
31:DA:836:G:C6	31:DA:851:G:C6	3.09	0.40
31:DA:853:G:C4	31:DA:854:G:C8	3.09	0.40
31:DA:1014:A:C2	49:DV:34:TRP:CD2	3.09	0.40
32:DE:53:ARG:NH1	32:DE:199:TYR:CD2	2.89	0.40
32:DE:97:TRP:CE3	32:DE:98:LEU:O	2.74	0.40
33:DF:15:THR:HG22	33:DF:16:ARG:N	2.36	0.40
34:DG:62:GLN:O	34:DG:66:ARG:HD2	2.21	0.40
34:DG:88:VAL:HG13	35:DH:97:GLY:CA	2.51	0.40
39:DL:10:ARG:HD2	39:DL:105:ASP:CB	2.45	0.40
41:DN:105:VAL:O	41:DN:105:VAL:CG2	2.69	0.40
49:DV:28:LYS:HE3	49:DV:29:ARG:O	2.21	0.40
52:DB:15:A:N1	52:DB:70:G:C4	2.88	0.40
53:DC:38:A:H2'	53:DC:39:A:O4'	2.20	0.40
53:DD:8:U:C5	53:DD:13:C:C4	3.09	0.40
53:DD:12:G:C5	53:DD:13:C:C2	3.09	0.40
1:AA:8:A:H2'	1:AA:9:U:O4'	2.21	0.40
1:AA:182:A:H2'	1:AA:183:C:O4'	2.21	0.40
1:AA:270(L):U:O2	1:AA:270(L):U:C2'	2.69	0.40
1:AA:292:C:O2'	1:AA:293:U:H5'	2.21	0.40
1:AA:465:G:H2'	1:AA:466:A:C8	2.55	0.40
1:AA:552:G:C5	1:AA:553:U:C5	3.09	0.40
1:AA:618:G:H2'	1:AA:618(A):C:H6	1.85	0.40
1:AA:1057:A:OP1	1:AA:1057:A:H4'	2.21	0.40
1:AA:1060:U:N1	1:AA:1062:G:H5'	2.36	0.40
1:AA:1462:C:H4'	1:AA:2703:C:O4'	2.21	0.40
1:AA:1751:C:C2	1:AA:1752:C:C5	3.09	0.40
1:AA:1786:A:C4	1:AA:1938:A:C6	3.09	0.40
1:AA:1829:A:N3	3:AD:15:PHE:CE1	2.90	0.40
1:AA:1891:G:H2'	1:AA:1892:C:O4'	2.21	0.40
1:AA:1980:G:C2	1:AA:1982:C:C4	3.10	0.40
1:AA:2018:G:H2'	1:AA:2019:A:C8	2.55	0.40
1:AA:2053:G:H5'	4:AE:144:ARG:O	2.21	0.40
1:AA:2109:U:O2	1:AA:2181:G:C2	2.75	0.40
1:AA:2115:G:N2	1:AA:2172:U:H3	2.19	0.40
1:AA:2149:G:C6	1:AA:2150:U:C2	3.09	0.40
1:AA:2309:A:C2	1:AA:2310:A:C8	3.08	0.40
1:AA:2393:A:H2'	1:AA:2394:C:O4'	2.21	0.40
1:AA:2482:G:C4	1:AA:2483:C:C6	3.09	0.40
1:AA:2712:U:O2'	1:AA:2712(A):A:OP2	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:170:LEU:CB	5:AF:173:VAL:HG23	2.51	0.40
6:AG:45:GLU:H	6:AG:45:GLU:HG2	1.36	0.40
6:AG:83:ARG:C	6:AG:85:GLY:H	2.30	0.40
6:AG:139:LEU:HD21	6:AG:146:TYR:HA	2.02	0.40
9:AM:62:VAL:HG22	9:AM:66:LYS:HD2	2.00	0.40
13:A0:101:ALA:HA	27:A5:44:THR:HG21	2.02	0.40
19:AT:31:HIS:HA	19:AT:32:PRO:HD3	1.85	0.40
21:AV:105:VAL:HG11	21:AV:138:GLU:OE1	2.22	0.40
22:A3:49:LYS:HB2	22:A3:80:HIS:HB3	2.03	0.40
23:AZ:20:ARG:HB3	23:AZ:32:LYS:HD2	2.03	0.40
26:A4:63:TYR:O	26:A4:66:SER:N	2.55	0.40
1:BA:225:A:N6	1:BA:226:G:N1	2.69	0.40
1:BA:270(G):C:O2	1:BA:270(T):G:N2	2.54	0.40
1:BA:271(A):C:H1'	1:BA:272:G:H1'	2.02	0.40
1:BA:273(E):U:C2'	1:BA:273(F):C:H5'	2.51	0.40
1:BA:330:A:C2	1:BA:1210:A:O2'	2.58	0.40
1:BA:529:A:N3	1:BA:529:A:C2'	2.85	0.40
1:BA:619:G:H5''	1:BA:620:G:OP2	2.21	0.40
1:BA:1465:G:C4	1:BA:1466:G:C8	3.09	0.40
1:BA:1755:A:OP2	15:BR:113:LYS:NZ	2.48	0.40
1:BA:1782:C:H1'	1:BA:2609:U:H5''	2.03	0.40
1:BA:2014:A:H2'	1:BA:2015:A:C8	2.56	0.40
1:BA:2271:G:H5''	22:B3:20:ARG:NE	2.37	0.40
1:BA:2364:C:C2'	1:BA:2365:G:H5'	2.51	0.40
1:BA:2401:U:H2'	1:BA:2402:C:H5''	2.03	0.40
1:BA:2450:A:O2'	53:DC:77:A:N1	2.51	0.40
1:BA:2517:C:C2	1:BA:2542:A:C6	3.09	0.40
1:BA:2762:G:H5'	1:BA:2763:G:OP2	2.20	0.40
1:BA:2816:C:O2	1:BA:2883:A:O2'	2.38	0.40
2:BB:4:C:N3	2:BB:117:G:N2	2.69	0.40
2:BB:23:G:C2	2:BB:24:G:O6	2.74	0.40
2:BB:46:A:H2'	2:BB:47:C:C6	2.55	0.40
3:BD:168:ARG:NH2	36:DI:83:ASP:OD1	2.54	0.40
6:BG:33:ARG:HB2	6:BG:162:THR:HG21	2.03	0.40
8:BK:107:VAL:HG13	8:BK:108:THR:N	2.36	0.40
8:BK:129:THR:HA	8:BK:137:PRO:HA	2.04	0.40
9:BM:91:LEU:O	9:BM:95:PRO:HB3	2.22	0.40
10:BN:31:LYS:HB3	10:BN:32:TYR:CD1	2.56	0.40
11:BO:90:ARG:HG3	11:BO:91:PHE:H	1.86	0.40
12:BP:32:TYR:HA	12:BP:132:VAL:O	2.21	0.40
13:B0:77:ARG:O	13:B0:78:LYS:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BQ:104:GLY:C	14:BQ:106:ARG:H	2.29	0.40
16:B1:50:ARG:CB	16:B1:50:ARG:HH21	2.34	0.40
17:B2:62:LEU:HD12	17:B2:62:LEU:HA	1.80	0.40
18:BS:20:VAL:O	18:BS:23:LEU:N	2.43	0.40
18:BS:88:ARG:HB2	18:BS:93:ALA:H	1.86	0.40
20:BU:46:LYS:HB2	20:BU:61:ILE:O	2.22	0.40
21:BV:155:LEU:HA	21:BV:155:LEU:HD23	1.72	0.40
26:B4:56:VAL:HG22	26:B4:57:GLU:N	2.32	0.40
29:B7:29:LYS:HD2	29:B7:32:LYS:HE3	2.02	0.40
31:CA:104:G:N1	31:CA:105:G:C5	2.89	0.40
31:CA:142:G:O6	31:CA:143:A:N6	2.55	0.40
31:CA:277:C:H5''	47:CT:68:ARG:NH2	2.36	0.40
31:CA:329:A:C6	31:CA:332:G:C2	3.09	0.40
31:CA:354:G:N3	31:CA:354:G:H2'	2.37	0.40
31:CA:500:G:N2	31:CA:546:G:H1'	2.35	0.40
31:CA:621:A:C2'	31:CA:622:A:H5'	2.51	0.40
31:CA:654:G:C2	31:CA:753:A:C4	3.09	0.40
31:CA:698:G:C6	31:CA:699:C:C4	3.09	0.40
31:CA:1009:G:C4	31:CA:1010:G:C8	3.09	0.40
31:CA:1237:C:C4'	31:CA:1334:G:N2	2.84	0.40
31:CA:1374:A:C2'	31:CA:1375:A:H5'	2.51	0.40
33:CF:40:ARG:C	33:CF:44:GLU:HG2	2.45	0.40
33:CF:70:VAL:O	33:CF:106:VAL:N	2.51	0.40
34:CG:157:LEU:O	34:CG:161:ASN:OD1	2.40	0.40
34:CG:209:ARG:HA	34:CG:209:ARG:HE	1.86	0.40
35:CH:107:ARG:O	35:CH:108:ALA:C	2.64	0.40
36:CI:63:TYR:N	36:CI:63:TYR:HD2	2.18	0.40
37:CJ:45:ASP:O	37:CJ:49:ILE:HG12	2.22	0.40
38:CK:41:ARG:HD2	38:CK:41:ARG:C	2.46	0.40
38:CK:49:GLU:HG2	38:CK:62:TYR:HE2	1.85	0.40
39:CL:114:TYR:HE1	40:CM:60:ARG:O	2.03	0.40
40:CM:62:HIS:CD2	40:CM:62:HIS:H	2.40	0.40
43:CP:3:ARG:HH11	43:CP:7:VAL:CG2	2.33	0.40
44:CQ:58:LYS:HB3	44:CQ:58:LYS:NZ	2.36	0.40
47:CT:11:VAL:HG12	47:CT:85:VAL:HG22	2.03	0.40
50:CW:89:ARG:HD2	50:CW:104:LEU:HD21	2.03	0.40
31:DA:262:A:N6	31:DA:263:A:N6	2.69	0.40
31:DA:613:C:H3'	31:DA:613:C:C6	2.56	0.40
31:DA:692:U:O4	41:DN:53:SER:HA	2.22	0.40
31:DA:754:C:P	45:DR:72:ARG:HH22	2.44	0.40
31:DA:768:A:C4	31:DA:769:G:C8	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:792:A:H1'	31:DA:794:A:N7	2.37	0.40
31:DA:828:A:N6	31:DA:858:G:C2'	2.82	0.40
31:DA:838:G:C2	31:DA:849:C:N3	2.89	0.40
31:DA:1052:U:H2'	31:DA:1055:A:OP1	2.21	0.40
31:DA:1162:C:C2	31:DA:1175:G:N2	2.90	0.40
32:DE:12:GLU:CD	32:DE:12:GLU:C	2.89	0.40
33:DF:173:VAL:N	33:DF:174:PRO:HD3	2.35	0.40
39:DL:114:TYR:O	39:DL:116:LYS:HG2	2.21	0.40
42:DO:75:HIS:CD2	42:DO:77:LEU:HB2	2.56	0.40
49:DV:23:ASN:O	49:DV:23:ASN:CG	2.64	0.40
53:DC:64:G:H2'	53:DC:65:G:H8	1.86	0.40
1:AA:151:C:H2'	1:AA:152:G:C8	2.56	0.40
1:AA:275:G:N2	1:AA:276:A:C6	2.89	0.40
1:AA:336:C:H2'	1:AA:337:C:H5'	2.03	0.40
1:AA:498:G:C6	1:AA:499:U:C4	3.09	0.40
1:AA:673:C:C2'	1:AA:674:G:H5'	2.52	0.40
1:AA:800:A:C2	1:AA:802:A:C8	3.10	0.40
1:AA:821:A:HO2'	1:AA:945:A:H5'	1.85	0.40
1:AA:888:C:H2'	1:AA:889:C:O2	2.22	0.40
1:AA:1313:U:C2'	1:AA:1610:A:C2	3.03	0.40
1:AA:1374:G:H2'	1:AA:1375:C:C6	2.57	0.40
1:AA:1654:A:OP1	13:A0:1:MET:O	2.39	0.40
1:AA:2095:C:C4	1:AA:2096:U:C5	3.09	0.40
1:AA:2169:A:C6	1:AA:2170:A:C6	3.09	0.40
1:AA:2261:C:H1'	1:AA:2388:A:N3	2.36	0.40
1:AA:2303:G:C2	1:AA:2314:C:N3	2.90	0.40
1:AA:2545:G:H2'	1:AA:2546:U:O4'	2.21	0.40
1:AA:2681:C:C2'	1:AA:2682:U:OP2	2.69	0.40
1:AA:2861:G:C2	1:AA:2862:G:C4	3.10	0.40
3:AD:25:THR:HG21	3:AD:81:ALA:HA	2.03	0.40
3:AD:28:GLU:O	3:AD:29:PRO:O	2.39	0.40
3:AD:94:LEU:CD2	3:AD:95:LEU:N	2.84	0.40
3:AD:177:LEU:HB3	3:AD:178:PRO:CD	2.52	0.40
3:AD:257:LEU:HD22	3:AD:258:LYS:N	2.37	0.40
4:AE:11:MET:HE3	4:AE:186:GLY:HA2	2.03	0.40
4:AE:30:PRO:O	4:AE:32:PRO:HD3	2.21	0.40
4:AE:61:ARG:CG	4:AE:61:ARG:HH11	2.35	0.40
4:AE:70:ALA:O	4:AE:71:GLY:C	2.64	0.40
4:AE:81:ILE:CG2	4:AE:84:PHE:CB	2.97	0.40
5:AF:142:TRP:CD2	5:AF:142:TRP:C	3.00	0.40
6:AG:7:LEU:HB2	6:AG:104:GLU:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:78:SER:CB	53:CC:57:C:O2'	2.64	0.40
8:AK:96:ASP:O	8:AK:97:ILE:C	2.64	0.40
8:AK:109:ILE:HB	8:AK:130:TYR:OH	2.21	0.40
12:AP:109:VAL:HG13	12:AP:113:GLN:OE1	2.22	0.40
12:AP:140:ALA:CB	21:AV:53:ILE:HD11	2.52	0.40
16:A1:39:LEU:HD23	16:A1:39:LEU:HA	1.86	0.40
16:A1:66:ASN:HB2	16:A1:76:TYR:CB	2.49	0.40
18:AS:55:ALA:O	18:AS:58:ALA:HB3	2.21	0.40
21:AV:58:VAL:O	21:AV:67:LEU:O	2.39	0.40
21:AV:136:PHE:CD1	21:AV:136:PHE:C	3.00	0.40
24:AW:4:SER:N	24:AW:7:ARG:H	2.18	0.40
1:BA:35:G:C1'	1:BA:454:A:N3	2.84	0.40
1:BA:96:G:H4'	24:BW:48:HIS:CG	2.56	0.40
1:BA:107:C:O2'	1:BA:108:U:H5'	2.21	0.40
1:BA:116:C:H2'	1:BA:117:G:O4'	2.21	0.40
1:BA:162:U:O3'	1:BA:171:G:C8	2.75	0.40
1:BA:300:A:P	20:BU:84:ARG:HH12	2.45	0.40
1:BA:407:G:H2'	1:BA:408:G:H8	1.86	0.40
1:BA:480:A:C2	1:BA:499:U:O2	2.74	0.40
1:BA:563:G:C5	1:BA:564:C:C5	3.09	0.40
1:BA:565:C:H4'	1:BA:1253:A:C6	2.56	0.40
1:BA:633:A:C8	1:BA:633:A:C3'	3.05	0.40
1:BA:872:A:C2	1:BA:906:G:N3	2.90	0.40
1:BA:907:U:H5'	12:BP:23:GLY:O	2.20	0.40
1:BA:1084:A:H3'	1:BA:1085:A:H8	1.85	0.40
1:BA:1167:U:C2	1:BA:1183:G:N2	2.89	0.40
1:BA:1190:G:H2'	1:BA:1191:G:C8	2.52	0.40
1:BA:1244:G:H2'	1:BA:1245:G:H5'	2.01	0.40
1:BA:1260:G:C6	1:BA:1261:C:C4	3.09	0.40
1:BA:1309:G:OP1	29:B7:9:ARG:HB2	2.21	0.40
1:BA:1575:C:H2'	1:BA:1576:U:H6	1.85	0.40
1:BA:1577:C:H2'	1:BA:1578:U:O4'	2.21	0.40
1:BA:1725:G:C2	1:BA:1741:C:O2	2.74	0.40
1:BA:2001:A:H2'	1:BA:2002:G:C8	2.56	0.40
1:BA:2057:A:H2'	1:BA:2058:A:O4'	2.21	0.40
1:BA:2070:G:H2'	1:BA:2071:A:O4'	2.21	0.40
1:BA:2239:G:OP2	3:BD:244:ARG:NH2	2.47	0.40
1:BA:2555:U:H5	1:BA:2556:C:C4	2.39	0.40
1:BA:2776:A:H3'	1:BA:2776:A:P	2.61	0.40
1:BA:2814:C:C6	1:BA:2815:C:C5	3.09	0.40
2:BB:13:A:H2'	2:BB:70:C:O2'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:34:VAL:HG22	3:BD:35:LYS:HZ2	1.87	0.40
4:BE:65:GLY:O	4:BE:66:HIS:C	2.64	0.40
5:BF:125:LEU:HD12	5:BF:196:LEU:CD2	2.51	0.40
5:BF:139:PHE:CD2	5:BF:139:PHE:C	2.99	0.40
6:BG:139:LEU:HD12	6:BG:139:LEU:C	2.46	0.40
10:BN:22:ILE:HD13	10:BN:22:ILE:HA	1.71	0.40
10:BN:111:PHE:O	10:BN:115:VAL:HG23	2.21	0.40
12:BP:3:MET:HB2	12:BP:93:TYR:CE1	2.54	0.40
12:BP:20:ALA:O	12:BP:21:THR:HG22	2.21	0.40
12:BP:54:MET:CE	12:BP:64:ILE:HG23	2.51	0.40
12:BP:64:ILE:HD13	12:BP:106:VAL:CG1	2.42	0.40
13:B0:18:LEU:HD13	13:B0:22:ARG:NE	2.36	0.40
15:BR:24:PRO:HD3	15:BR:52:ILE:HG13	2.03	0.40
19:BT:49:VAL:HA	19:BT:87:GLN:HE22	1.86	0.40
24:BW:14:ARG:HA	24:BW:63:VAL:HG11	2.03	0.40
30:B8:34:TRP:O	30:B8:35:GLN:C	2.62	0.40
31:CA:22:G:C6	31:CA:23:C:C4	3.09	0.40
31:CA:257:G:C2	31:CA:258:G:C4	3.09	0.40
31:CA:602:A:C2	31:CA:603:U:C2	3.10	0.40
31:CA:695:A:OP1	41:CN:52:GLY:HA3	2.22	0.40
31:CA:782:A:H2'	31:CA:783:C:O4'	2.22	0.40
31:CA:857:C:N4	31:CA:858:G:C6	2.89	0.40
31:CA:1039:C:C4	31:CA:1040:U:C5	3.09	0.40
31:CA:1054:C:H6	31:CA:1196:U:O2'	2.05	0.40
31:CA:1227:A:O3'	43:CP:115:LYS:HE3	2.20	0.40
35:CH:6:PHE:HD1	35:CH:63:ARG:HH11	1.69	0.40
38:CK:64:LYS:C	38:CK:65:TYR:CD1	2.99	0.40
42:CO:25:LYS:O	42:CO:25:LYS:CD	2.69	0.40
53:CD:44:A:H2'	53:CD:45:A:C8	2.56	0.40
31:DA:152:A:N6	31:DA:170:U:C2	2.90	0.40
31:DA:177:C:C4	31:DA:178:C:C5	3.09	0.40
31:DA:448:A:H2'	31:DA:449:C:O2	2.21	0.40
31:DA:520:A:N1	31:DA:536:C:H1'	2.36	0.40
31:DA:778:G:H1'	41:DN:119:CYS:HB3	2.02	0.40
31:DA:843:U:OP1	31:DA:843:U:H6	2.04	0.40
31:DA:1106:G:C5'	33:DF:172:ARG:HG2	2.52	0.40
31:DA:1177:G:H5''	31:DA:1178:G:OP1	2.21	0.40
31:DA:1520:G:H2'	31:DA:1521:G:H8	1.87	0.40
32:DE:44:LEU:HD23	32:DE:44:LEU:H	1.85	0.40
34:DG:134:ASP:CB	34:DG:135:LEU:HD13	2.51	0.40
37:DJ:62:PHE:HD1	37:DJ:124:LEU:HD11	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DK:75:ARG:HA	38:DK:76:PRO:HD3	1.84	0.40
38:DK:87:SER:HA	38:DK:93:VAL:HG23	2.02	0.40
38:DK:118:VAL:C	38:DK:119:LEU:HD23	2.46	0.40
43:DP:15:VAL:O	43:DP:19:LEU:HB2	2.22	0.40
44:DQ:15:LYS:C	44:DQ:16:PHE:CD2	2.99	0.40
53:DD:9:G:O2'	53:DD:10:G:N7	2.55	0.40
53:DD:9:G:H4'	53:DD:47:G:H5'	2.03	0.40
1:AA:270(O):U:H5''	1:AA:270(P):C:P	2.62	0.40
1:AA:384:U:H2'	1:AA:385:C:H6	1.87	0.40
1:AA:520:G:H2'	1:AA:521:G:H8	1.86	0.40
1:AA:587:C:C2	11:AO:33:ARG:NH1	2.90	0.40
1:AA:709:U:H2'	1:AA:710:G:O4'	2.22	0.40
1:AA:902:C:C2'	1:AA:903:C:H5'	2.51	0.40
1:AA:1142(A):A:C8	1:AA:1144:G:N7	2.89	0.40
1:AA:1171:G:N2	1:AA:1179:C:C2	2.89	0.40
1:AA:1516:U:O2	1:AA:1516:U:H2'	2.22	0.40
1:AA:1543:A:O4'	1:AA:1545:A:O4'	2.39	0.40
1:AA:1567:A:O4'	1:AA:1568:G:C2	2.75	0.40
1:AA:1799:G:O2'	1:AA:1800:C:OP2	2.25	0.40
1:AA:1829:A:N3	3:AD:15:PHE:HE1	2.19	0.40
1:AA:2283:C:H2'	1:AA:2284:C:H5'	2.03	0.40
1:AA:2303:G:O2'	1:AA:2304:G:H5'	2.21	0.40
1:AA:2345:G:N3	1:AA:2381:C:H2'	2.36	0.40
1:AA:2359:C:H6	1:AA:2359:C:O5'	2.04	0.40
1:AA:2757:A:N1	7:AH:67:LEU:HD22	2.36	0.40
1:AA:2764:A:N7	1:AA:2766:G:C6	2.90	0.40
1:AA:2864:G:H2'	1:AA:2865:U:O4'	2.21	0.40
3:AD:72:LYS:HB3	3:AD:72:LYS:HE3	1.93	0.40
4:AE:13:ARG:HB3	4:AE:13:ARG:NH1	2.26	0.40
5:AF:65:TRP:HB3	5:AF:66:PRO:HD2	2.03	0.40
6:AG:16:ARG:N	6:AG:17:PRO:HD2	2.36	0.40
8:AK:81:VAL:HG11	8:AK:88:ILE:HD13	2.03	0.40
9:AM:43:THR:HG23	16:A1:64:ARG:HH22	1.85	0.40
12:AP:47:ILE:HG22	12:AP:48:GLU:N	2.35	0.40
12:AP:50:ALA:O	12:AP:51:ARG:C	2.63	0.40
12:AP:59:ARG:H	12:AP:59:ARG:HD2	1.86	0.40
13:A0:1:MET:HB3	13:A0:2:ARG:H	1.70	0.40
13:A0:75:LEU:C	13:A0:75:LEU:HD13	2.47	0.40
14:AQ:110:LEU:O	14:AQ:112:PHE:CE1	2.74	0.40
19:AT:15:GLU:CD	19:AT:15:GLU:N	2.74	0.40
21:AV:27:VAL:CG2	21:AV:28:MET:N	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A3:38:VAL:HG13	22:A3:40:GLN:CG	2.50	0.40
30:A8:58:ILE:HG13	30:A8:61:LEU:CD1	2.52	0.40
1:BA:51:G:N3	1:BA:119:A:C2	2.89	0.40
1:BA:181:A:H5''	29:B7:36:GLN:HE22	1.86	0.40
1:BA:194:G:C2	1:BA:202:U:H1'	2.57	0.40
1:BA:220:G:H2'	1:BA:427:U:O4	2.21	0.40
1:BA:303:U:H2'	1:BA:304:G:C8	2.57	0.40
1:BA:464:U:C2	1:BA:788:A:C6	3.10	0.40
1:BA:620:G:H4'	1:BA:621:A:C5'	2.50	0.40
1:BA:892:G:C5	1:BA:893:C:N4	2.90	0.40
1:BA:1093:G:H2'	1:BA:1098:A:H61	1.87	0.40
1:BA:1406:U:H3'	1:BA:1407:C:H6	1.86	0.40
1:BA:1657:C:H2'	1:BA:1658:C:O4'	2.22	0.40
1:BA:1830:C:H6	1:BA:1830:C:O5'	2.05	0.40
1:BA:2053:G:H1	1:BA:2616:C:H42	1.69	0.40
1:BA:2083:G:C6	1:BA:2084:C:C4	3.10	0.40
1:BA:2131:G:O5'	1:BA:2132:U:H5''	2.21	0.40
1:BA:2163:C:C4	1:BA:2164:C:N3	2.89	0.40
1:BA:2312:U:C3'	1:BA:2312:U:C6	3.04	0.40
1:BA:2394:C:O2	53:DD:77:A:O2'	2.38	0.40
1:BA:2582:G:C2'	1:BA:2583:G:H5'	2.51	0.40
1:BA:2632:A:O2'	1:BA:2811:G:O2'	2.09	0.40
1:BA:2729:G:H2'	1:BA:2730:C:C6	2.57	0.40
2:BB:31:C:O2'	2:BB:32:C:H5'	2.22	0.40
2:BB:45:A:C3'	2:BB:46:A:H5'	2.51	0.40
5:BF:68:LYS:HA	5:BF:68:LYS:NZ	2.36	0.40
5:BF:164:ARG:O	5:BF:168:ARG:HB2	2.21	0.40
6:BG:109:VAL:CG1	6:BG:142:PRO:HD3	2.49	0.40
6:BG:122:PRO:O	6:BG:125:PHE:HD1	2.05	0.40
7:BH:85:LYS:HA	7:BH:85:LYS:HD2	1.76	0.40
10:BN:103:ALA:C	10:BN:105:GLU:N	2.78	0.40
13:B0:51:LEU:HA	13:B0:51:LEU:HD23	1.84	0.40
13:B0:104:ARG:HD2	13:B0:107:ASP:CG	2.47	0.40
17:B2:5:VAL:CA	17:B2:37:VAL:HB	2.46	0.40
19:BT:5:TYR:CE2	24:BW:30:ARG:HG3	2.56	0.40
20:BU:95:LYS:HD3	20:BU:96:ILE:O	2.21	0.40
21:BV:163:LEU:HD12	21:BV:163:LEU:O	2.21	0.40
30:B8:6:THR:HG22	30:B8:60:LEU:O	2.22	0.40
31:CA:147:G:C2	31:CA:148:G:C4	3.10	0.40
31:CA:150:C:N4	31:CA:170:U:N3	2.70	0.40
31:CA:191(B):G:O2'	31:CA:191(C):G:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CA:260:G:C6	31:CA:261:U:O4	2.74	0.40
31:CA:406:G:H2'	31:CA:407:G:C8	2.56	0.40
31:CA:457:C:N3	31:CA:476:G:C2	2.89	0.40
31:CA:638:G:C2	31:CA:639:G:C4	3.08	0.40
31:CA:687:A:C2	31:CA:704:A:C5	3.10	0.40
31:CA:750:G:N3	31:CA:751:U:C6	2.90	0.40
31:CA:1028(B):C:N4	31:CA:1032(B):G:C6	2.90	0.40
31:CA:1131:G:C2'	31:CA:1132:C:H5'	2.52	0.40
31:CA:1176:A:N6	31:CA:1177:G:C2	2.90	0.40
31:CA:1208:C:C5	31:CA:1209:C:C5	3.10	0.40
31:CA:1228:C:H4'	43:CP:116:THR:HA	2.03	0.40
31:CA:1342:C:H2'	31:CA:1343:G:C8	2.57	0.40
32:CE:201:ILE:CG2	32:CE:214:ILE:HG21	2.50	0.40
38:CK:64:LYS:O	38:CK:65:TYR:HD1	2.05	0.40
38:CK:112:LEU:HD12	38:CK:114:THR:HG23	2.01	0.40
40:CM:15:THR:O	40:CM:19:SER:N	2.52	0.40
43:CP:67:GLU:O	43:CP:68:GLY:C	2.63	0.40
46:CS:19:ILE:HB	46:CS:36:ILE:O	2.21	0.40
53:CC:33:C:H2'	53:CC:34:U:H5'	2.03	0.40
53:CC:48:U:H1'	53:CC:49:C:P	2.62	0.40
53:CD:19:G:N2	53:CD:56:U:C2	2.89	0.40
53:CD:34:U:H5''	53:CD:35:C:OP2	2.22	0.40
31:DA:301:G:C4	31:DA:302:G:C8	3.09	0.40
31:DA:402:G:C6	31:DA:403:C:C5	3.10	0.40
31:DA:973:G:H1'	40:DM:55:LYS:CE	2.50	0.40
31:DA:1329:A:N3	31:DA:1330:U:H1'	2.36	0.40
31:DA:1346:A:OP2	31:DA:1346:A:H3'	2.21	0.40
31:DA:1423:G:H2'	31:DA:1424:C:C6	2.56	0.40
34:DG:24:GLU:HG2	34:DG:25:ARG:N	2.34	0.40
34:DG:119:GLN:O	34:DG:120:LEU:C	2.64	0.40
35:DH:71:LEU:HD22	35:DH:115:VAL:HG12	2.04	0.40
36:DI:55:ASP:HA	36:DI:56:PRO:HD3	1.91	0.40
43:DP:36:LYS:HB3	43:DP:36:LYS:HE2	1.74	0.40
46:DS:53:VAL:O	46:DS:57:ARG:HG3	2.21	0.40
48:DU:45:SER:OG	48:DU:46:GLU:N	2.54	0.40
50:DW:42:GLN:HA	50:DW:42:GLN:HE21	1.87	0.40
52:DB:2:C:C6	52:DB:2:C:OP2	2.74	0.40
52:DB:10:G:H2'	52:DB:11:U:C6	2.57	0.40
1:AA:270(Y):G:C2	1:AA:270(Z):U:O4	2.75	0.40
1:AA:792:G:H5''	1:AA:793:A:H5'	2.03	0.40
1:AA:910:A:C6	1:AA:911:A:C6	3.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:910:A:H2'	1:AA:2264:C:O2'	2.21	0.40
1:AA:1562:A:C2	1:AA:1563:G:C4	3.09	0.40
1:AA:1567:A:OP2	3:AD:84:TYR:OH	2.31	0.40
1:AA:1857:G:C6	1:AA:1858:G:N1	2.90	0.40
1:AA:1893:C:C6	1:AA:1894:C:C5	3.10	0.40
1:AA:2148:G:C2	1:AA:2149:G:C8	3.10	0.40
1:AA:2247:A:O2'	1:AA:2248:C:H5'	2.22	0.40
1:AA:2351:G:H1'	1:AA:2366:A:H61	1.86	0.40
1:AA:2523:G:C2'	1:AA:2524:G:H5'	2.52	0.40
1:AA:2562:U:C1'	10:AN:23:ARG:HH11	2.35	0.40
2:AB:94:C:C5	2:AB:95:U:H5	2.40	0.40
5:AF:24:LEU:HA	5:AF:25:PRO:HD2	1.90	0.40
6:AG:44:GLY:O	6:AG:47:LYS:HE2	2.22	0.40
8:AK:1:MET:O	8:AK:20:ASP:HA	2.21	0.40
9:AM:34:LEU:HD13	9:AM:34:LEU:HA	1.80	0.40
11:AO:45:LEU:HD13	11:AO:45:LEU:HA	1.85	0.40
11:AO:91:PHE:HZ	11:AO:103:ALA:CB	2.34	0.40
14:AQ:58:LEU:N	14:AQ:58:LEU:CD2	2.83	0.40
18:AS:17:VAL:O	18:AS:20:VAL:HG22	2.22	0.40
19:AT:10:ALA:HA	19:AT:11:PRO:HD3	1.91	0.40
20:AU:102:CYS:SG	20:AU:103:GLY:N	2.93	0.40
30:A8:43:GLN:C	30:A8:44:LYS:HD2	2.47	0.40
1:BA:49:A:H4'	1:BA:50:U:H5''	2.04	0.40
1:BA:444:C:H2'	1:BA:445:C:H6	1.87	0.40
1:BA:646:A:C2'	1:BA:647:G:O5'	2.70	0.40
1:BA:813:U:H2'	1:BA:814:C:C6	2.56	0.40
1:BA:945:A:C2	1:BA:2448:A:C4	3.09	0.40
1:BA:1006:C:O2'	9:BM:106:MET:O	2.36	0.40
1:BA:1066:U:N3	1:BA:1069:A:OP2	2.55	0.40
1:BA:1500:G:O2'	1:BA:1501:C:H5'	2.22	0.40
1:BA:1545(A):A:N7	1:BA:1546:C:C2	2.90	0.40
1:BA:1597:A:C5'	1:BA:1598:C:OP1	2.69	0.40
1:BA:1638:C:H1'	1:BA:2698:U:O2'	2.22	0.40
1:BA:1776:G:C2	1:BA:1777:U:C6	3.10	0.40
1:BA:2037:G:H2'	1:BA:2038:G:H8	1.86	0.40
1:BA:2123:G:H2'	1:BA:2124:G:H8	1.86	0.40
1:BA:2555:U:C5	1:BA:2556:C:C6	3.09	0.40
1:BA:2685:G:O2'	1:BA:2726:U:H5	2.04	0.40
1:BA:2734:A:H2'	1:BA:2735:G:O4'	2.22	0.40
1:BA:2799:A:H2'	1:BA:2801:A:N9	2.36	0.40
2:BB:16:G:O2'	2:BB:17:C:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:161:THR:O	3:BD:162:SER:HB3	2.21	0.40
5:BF:64:ILE:HG13	5:BF:65:TRP:CG	2.57	0.40
8:BK:29:TYR:CD2	8:BK:30:LEU:HD23	2.56	0.40
8:BK:77:LEU:CG	8:BK:78:THR:H	2.35	0.40
11:BO:85:LEU:CA	11:BO:88:LEU:HB3	2.49	0.40
12:BP:58:PHE:C	12:BP:60:ARG:N	2.79	0.40
13:B0:63:ARG:NH1	13:B0:80:PHE:CD1	2.90	0.40
15:BR:26:ASP:HB3	15:BR:92:GLY:N	2.34	0.40
16:B1:110:VAL:O	16:B1:113:ALA:HB3	2.22	0.40
17:B2:58:VAL:HB	17:B2:98:GLU:HB2	2.03	0.40
20:BU:47:LYS:HA	20:BU:60:PHE:CB	2.52	0.40
20:BU:89:PHE:HD1	20:BU:90:LEU:CD2	2.34	0.40
21:BV:28:MET:CG	21:BV:37:VAL:HG11	2.51	0.40
21:BV:59:LEU:HG	21:BV:69:THR:OG1	2.22	0.40
21:BV:130:PRO:C	21:BV:133:ILE:HD11	2.47	0.40
22:B3:64:ASP:N	22:B3:64:ASP:OD1	2.54	0.40
31:CA:232:G:C4	31:CA:233:C:C5	3.09	0.40
31:CA:270:A:C6	31:CA:271:C:C4	3.10	0.40
31:CA:373:A:C2	31:CA:482:A:C6	3.10	0.40
31:CA:587:G:C2	31:CA:755:G:C5	3.09	0.40
31:CA:686:U:H1'	41:CN:42:TRP:NE1	2.20	0.40
31:CA:838:G:H2'	31:CA:841:U:H5''	2.04	0.40
31:CA:939:G:C4	31:CA:940:C:C5	3.10	0.40
31:CA:974:A:O2'	31:CA:975:A:P	2.78	0.40
31:CA:1034:G:C2	31:CA:1035:A:C5	3.09	0.40
31:CA:1117:G:H5''	39:CL:104:ARG:NH1	2.37	0.40
31:CA:1171:G:H2'	31:CA:1172:C:C6	2.56	0.40
31:CA:1502:A:H2	31:CA:1505:G:N1	2.18	0.40
33:CF:78:GLY:HA3	33:CF:83:ARG:CB	2.50	0.40
34:CG:86:LYS:HD2	34:CG:86:LYS:H	1.87	0.40
35:CH:148:VAL:HG12	35:CH:149:GLU:N	2.34	0.40
37:CJ:89:MET:HE3	37:CJ:155:ARG:HB2	2.03	0.40
38:CK:39:LEU:CD1	38:CK:111:ILE:HD11	2.50	0.40
38:CK:54:ASP:O	38:CK:56:LYS:HD2	2.22	0.40
38:CK:87:SER:HA	38:CK:93:VAL:HG23	2.02	0.40
39:CL:4:TYR:CE1	39:CL:88:TYR:HB2	2.56	0.40
39:CL:21:PRO:HA	39:CL:59:PHE:HA	2.03	0.40
39:CL:89:ASN:OD1	39:CL:89:ASN:N	2.54	0.40
45:CR:78:TYR:CZ	45:CR:82:ILE:CD1	3.04	0.40
45:CR:78:TYR:CZ	45:CR:82:ILE:HD12	2.57	0.40
52:CB:27:G:H5''	52:CB:28:C:C5	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CD:27:G:H1	53:CD:46:G:N2	2.19	0.40
31:DA:56:U:H2'	31:DA:57:G:C8	2.57	0.40
31:DA:278:G:OP2	47:DT:41:LYS:NZ	2.48	0.40
31:DA:279:A:H5''	31:DA:281:G:H5'	2.02	0.40
31:DA:742:G:P	45:DR:35:ARG:NH2	2.94	0.40
31:DA:900:A:H2'	31:DA:901:A:C8	2.56	0.40
31:DA:1026:G:O6	31:DA:1036:G:N3	2.54	0.40
31:DA:1130:A:P	31:DA:1131:G:OP2	2.79	0.40
31:DA:1207:G:H2'	31:DA:1208:C:C6	2.57	0.40
31:DA:1240:U:OP2	37:DJ:116:ALA:N	2.38	0.40
31:DA:1281:U:H4'	31:DA:1282:C:OP2	2.21	0.40
31:DA:1343:G:C5	31:DA:1344:C:C4	3.08	0.40
32:DE:8:LYS:CD	32:DE:11:LEU:HB2	2.51	0.40
32:DE:96:ARG:HH11	32:DE:148:TYR:HE1	1.69	0.40
32:DE:97:TRP:CE2	32:DE:101:MET:HG3	2.57	0.40
32:DE:224:GLN:HG3	32:DE:225:ALA:N	2.37	0.40
33:DF:16:ARG:NH1	33:DF:16:ARG:CB	2.83	0.40
33:DF:184:TYR:CD2	33:DF:184:TYR:C	3.00	0.40
33:DF:206:GLU:O	33:DF:207:VAL:C	2.64	0.40
34:DG:58:LEU:C	34:DG:58:LEU:HD23	2.46	0.40
35:DH:11:ILE:HG21	35:DH:105:VAL:HG22	2.03	0.40
39:DL:4:TYR:CE2	39:DL:88:TYR:CG	3.09	0.40
39:DL:37:PHE:HB3	39:DL:43:ALA:CB	2.51	0.40
41:DN:103:LEU:HD22	41:DN:103:LEU:H	1.86	0.40
42:DO:51:ALA:C	42:DO:52:LEU:HD23	2.47	0.40
53:DC:18:C:HO2'	53:DC:19:G:P	2.45	0.40
53:DD:8:U:O2'	53:DD:47:G:H1'	2.21	0.40

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:276:A:OP2	31:DA:86:U:O2'[3_555]	1.96	0.24
7:BH:100:GLY:O	31:CA:85:U:O2'[3_545]	2.02	0.18
36:CI:15:ASP:OD2	34:DG:27:TYR:OH[4_555]	2.06	0.14
7:BH:132:ARG:O	31:CA:84:U:N3[3_545]	2.18	0.02
17:A2:51:VAL:N	27:A5:60:VAL:O[4_465]	2.19	0.01

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AD	270/276 (98%)	244 (90%)	20 (7%)	6 (2%)	5	26
3	BD	270/276 (98%)	246 (91%)	15 (6%)	9 (3%)	3	19
4	AE	203/206 (98%)	149 (73%)	37 (18%)	17 (8%)	0	4
4	BE	203/206 (98%)	149 (73%)	34 (17%)	20 (10%)	0	3
5	AF	200/210 (95%)	181 (90%)	19 (10%)	0	100	100
5	BF	206/210 (98%)	172 (84%)	29 (14%)	5 (2%)	4	24
6	AG	179/182 (98%)	155 (87%)	17 (10%)	7 (4%)	2	16
6	BG	179/182 (98%)	150 (84%)	28 (16%)	1 (1%)	21	52
7	AH	168/180 (93%)	135 (80%)	25 (15%)	8 (5%)	2	12
7	BH	168/180 (93%)	129 (77%)	37 (22%)	2 (1%)	10	37
8	AK	144/148 (97%)	108 (75%)	28 (19%)	8 (6%)	1	9
8	BK	144/148 (97%)	114 (79%)	27 (19%)	3 (2%)	5	26
9	AM	136/140 (97%)	113 (83%)	17 (12%)	6 (4%)	2	13
9	BM	136/140 (97%)	120 (88%)	12 (9%)	4 (3%)	3	21
10	AN	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
10	BN	120/122 (98%)	113 (94%)	6 (5%)	1 (1%)	16	45
11	AO	148/150 (99%)	101 (68%)	31 (21%)	16 (11%)	0	2
11	BO	148/150 (99%)	95 (64%)	32 (22%)	21 (14%)	0	1
12	AP	139/141 (99%)	101 (73%)	19 (14%)	19 (14%)	0	1
12	BP	139/141 (99%)	88 (63%)	34 (24%)	17 (12%)	0	1
13	A0	116/118 (98%)	99 (85%)	16 (14%)	1 (1%)	14	43
13	B0	115/118 (98%)	108 (94%)	7 (6%)	0	100	100
14	AQ	109/112 (97%)	87 (80%)	20 (18%)	2 (2%)	6	29
14	BQ	109/112 (97%)	87 (80%)	18 (16%)	4 (4%)	2	17
15	AR	135/146 (92%)	111 (82%)	22 (16%)	2 (2%)	8	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	BR	135/146 (92%)	124 (92%)	11 (8%)	0	100	100
16	A1	115/118 (98%)	105 (91%)	9 (8%)	1 (1%)	14	43
16	B1	115/118 (98%)	102 (89%)	12 (10%)	1 (1%)	14	43
17	A2	99/101 (98%)	91 (92%)	5 (5%)	3 (3%)	3	20
17	B2	99/101 (98%)	73 (74%)	13 (13%)	13 (13%)	0	1
18	AS	111/113 (98%)	102 (92%)	8 (7%)	1 (1%)	14	43
18	BS	111/113 (98%)	104 (94%)	7 (6%)	0	100	100
19	AT	90/96 (94%)	84 (93%)	4 (4%)	2 (2%)	5	26
19	BT	90/96 (94%)	81 (90%)	8 (9%)	1 (1%)	11	39
20	AU	100/110 (91%)	84 (84%)	10 (10%)	6 (6%)	1	9
20	BU	100/110 (91%)	67 (67%)	27 (27%)	6 (6%)	1	9
21	AV	173/206 (84%)	131 (76%)	35 (20%)	7 (4%)	2	15
21	BV	177/206 (86%)	139 (78%)	30 (17%)	8 (4%)	2	13
22	A3	74/85 (87%)	68 (92%)	4 (5%)	2 (3%)	4	22
22	B3	75/85 (88%)	70 (93%)	5 (7%)	0	100	100
23	AZ	95/98 (97%)	86 (90%)	6 (6%)	3 (3%)	3	19
23	BZ	95/98 (97%)	84 (88%)	10 (10%)	1 (1%)	11	39
24	AW	64/72 (89%)	60 (94%)	1 (2%)	3 (5%)	2	12
24	BW	67/72 (93%)	60 (90%)	6 (9%)	1 (2%)	8	32
25	AX	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
25	BX	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
26	A4	64/71 (90%)	42 (66%)	20 (31%)	2 (3%)	3	20
26	B4	61/71 (86%)	32 (52%)	27 (44%)	2 (3%)	3	19
27	A5	57/60 (95%)	48 (84%)	8 (14%)	1 (2%)	6	29
27	B5	57/60 (95%)	48 (84%)	6 (10%)	3 (5%)	1	10
28	A6	43/54 (80%)	28 (65%)	13 (30%)	2 (5%)	2	12
28	B6	43/54 (80%)	26 (60%)	11 (26%)	6 (14%)	0	1
29	A7	47/49 (96%)	43 (92%)	4 (8%)	0	100	100
29	B7	47/49 (96%)	45 (96%)	2 (4%)	0	100	100
30	A8	59/65 (91%)	54 (92%)	4 (7%)	1 (2%)	7	30
30	B8	59/65 (91%)	42 (71%)	10 (17%)	7 (12%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
32	CE	235/256 (92%)	190 (81%)	44 (19%)	1 (0%)	30	60
32	DE	235/256 (92%)	186 (79%)	45 (19%)	4 (2%)	7	30
33	CF	203/239 (85%)	180 (89%)	23 (11%)	0	100	100
33	DF	204/239 (85%)	179 (88%)	23 (11%)	2 (1%)	12	40
34	CG	206/208 (99%)	180 (87%)	25 (12%)	1 (0%)	24	55
34	DG	206/208 (99%)	177 (86%)	28 (14%)	1 (0%)	24	55
35	CH	149/162 (92%)	137 (92%)	11 (7%)	1 (1%)	18	49
35	DH	149/162 (92%)	139 (93%)	10 (7%)	0	100	100
36	CI	99/101 (98%)	92 (93%)	7 (7%)	0	100	100
36	DI	99/101 (98%)	94 (95%)	5 (5%)	0	100	100
37	CJ	153/156 (98%)	144 (94%)	9 (6%)	0	100	100
37	DJ	153/156 (98%)	143 (94%)	10 (6%)	0	100	100
38	CK	136/138 (99%)	122 (90%)	13 (10%)	1 (1%)	18	49
38	DK	136/138 (99%)	123 (90%)	13 (10%)	0	100	100
39	CL	125/128 (98%)	111 (89%)	14 (11%)	0	100	100
39	DL	125/128 (98%)	114 (91%)	11 (9%)	0	100	100
40	CM	97/105 (92%)	87 (90%)	10 (10%)	0	100	100
40	DM	97/105 (92%)	88 (91%)	7 (7%)	2 (2%)	5	26
41	CN	117/129 (91%)	106 (91%)	11 (9%)	0	100	100
41	DN	117/129 (91%)	105 (90%)	12 (10%)	0	100	100
42	CO	123/132 (93%)	108 (88%)	13 (11%)	2 (2%)	7	31
42	DO	123/132 (93%)	105 (85%)	16 (13%)	2 (2%)	7	31
43	CP	114/126 (90%)	90 (79%)	24 (21%)	0	100	100
43	DP	115/126 (91%)	97 (84%)	17 (15%)	1 (1%)	14	43
44	CQ	58/61 (95%)	50 (86%)	6 (10%)	2 (3%)	3	18
44	DQ	58/61 (95%)	49 (84%)	8 (14%)	1 (2%)	7	30
45	CR	86/89 (97%)	79 (92%)	7 (8%)	0	100	100
45	DR	86/89 (97%)	78 (91%)	8 (9%)	0	100	100
46	CS	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
46	DS	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
47	CT	98/105 (93%)	89 (91%)	7 (7%)	2 (2%)	6	27

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	DT	98/105 (93%)	93 (95%)	5 (5%)	0	100	100
48	CU	70/88 (80%)	63 (90%)	6 (9%)	1 (1%)	9	33
48	DU	70/88 (80%)	63 (90%)	7 (10%)	0	100	100
49	CV	76/93 (82%)	68 (90%)	6 (8%)	2 (3%)	4	23
49	DV	76/93 (82%)	58 (76%)	13 (17%)	5 (7%)	1	7
50	CW	97/106 (92%)	82 (84%)	14 (14%)	1 (1%)	12	40
50	DW	97/106 (92%)	81 (84%)	15 (16%)	1 (1%)	12	40
51	CX	23/27 (85%)	22 (96%)	1 (4%)	0	100	100
51	DX	23/27 (85%)	21 (91%)	2 (9%)	0	100	100
All	All	11336/12052 (94%)	9645 (85%)	1396 (12%)	295 (3%)	4	23

All (295) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AD	237	GLU
3	AD	271	ILE
4	AE	15	PHE
4	AE	19	ARG
4	AE	23	VAL
4	AE	53	PRO
4	AE	57	LYS
6	AG	78	SER
6	AG	79	ASN
6	AG	81	LYS
6	AG	82	LEU
6	AG	83	ARG
8	AK	15	VAL
9	AM	22	THR
11	AO	12	ALA
11	AO	16	ARG
11	AO	55	ARG
11	AO	57	THR
11	AO	58	THR
12	AP	27	VAL
12	AP	65	PHE
12	AP	66	ILE
12	AP	67	ARG
12	AP	79	LEU
12	AP	80	GLU

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Mol	Chain	Res	Type
12	AP	89	ASN
14	AQ	89	ARG
15	AR	55	ASN
15	AR	58	ASN
19	AT	68	ARG
21	AV	171	ILE
26	A4	5	ILE
26	A4	50	VAL
27	A5	4	HIS
28	A6	47	THR
3	BD	237	GLU
3	BD	271	ILE
3	BD	272	ALA
4	BE	9	VAL
4	BE	25	VAL
4	BE	45	THR
4	BE	52	LEU
4	BE	53	PRO
4	BE	81	ILE
4	BE	82	ARG
4	BE	131	ALA
4	BE	132	HIS
4	BE	133	LYS
5	BF	84	VAL
5	BF	89	VAL
9	BM	46	VAL
9	BM	47	ALA
11	BO	6	LEU
11	BO	16	ARG
11	BO	56	SER
11	BO	57	THR
11	BO	58	THR
11	BO	106	LEU
11	BO	107	LYS
11	BO	111	ARG
12	BP	25	ASP
12	BP	60	ARG
12	BP	63	LYS
12	BP	67	ARG
12	BP	79	LEU
12	BP	89	ASN
14	BQ	87	PHE

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Mol	Chain	Res	Type
14	BQ	88	ASP
17	B2	71	LEU
17	B2	72	VAL
17	B2	73	SER
17	B2	76	LYS
17	B2	78	LYS
17	B2	79	VAL
17	B2	80	GLN
17	B2	81	TYR
17	B2	85	LYS
21	BV	53	ILE
21	BV	171	ILE
26	B4	5	ILE
27	B5	4	HIS
27	B5	5	PRO
28	B6	44	ARG
28	B6	45	LYS
28	B6	47	THR
28	B6	48	VAL
28	B6	49	HIS
30	B8	31	HIS
30	B8	50	LEU
30	B8	51	ALA
30	B8	52	LYS
47	CT	78	GLU
48	CU	22	VAL
33	DF	64	VAL
34	DG	14	ARG
49	DV	10	PHE
49	DV	31	ILE
4	AE	81	ILE
6	AG	84	LYS
7	AH	169	VAL
9	AM	9	VAL
9	AM	97	ARG
11	AO	6	LEU
11	AO	51	PHE
11	AO	56	SER
11	AO	65	ARG
11	AO	66	GLY
11	AO	67	MET
12	AP	14	ARG

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Mol	Chain	Res	Type
12	AP	19	GLY
12	AP	25	ASP
12	AP	60	ARG
12	AP	62	GLY
12	AP	88	GLY
12	AP	90	VAL
16	A1	93	LYS
19	AT	67	GLY
21	AV	53	ILE
23	AZ	86	SER
24	AW	16	LEU
4	BE	55	ASN
4	BE	80	GLU
5	BF	128	ALA
7	BH	169	VAL
8	BK	143	SER
8	BK	144	VAL
9	BM	48	MET
11	BO	22	GLY
11	BO	47	ASP
11	BO	65	ARG
11	BO	66	GLY
11	BO	67	MET
11	BO	105	LEU
12	BP	27	VAL
12	BP	66	ILE
12	BP	88	GLY
17	B2	45	THR
21	BV	165	VAL
27	B5	6	VAL
30	B8	35	GLN
30	B8	55	ALA
38	CK	86	ILE
42	CO	45	PRO
32	DE	7	VAL
32	DE	74	LYS
42	DO	26	ALA
49	DV	9	VAL
49	DV	67	VAL
49	DV	68	GLY
4	AE	79	ARG
4	AE	82	ARG

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Mol	Chain	Res	Type
7	AH	84	SER
7	AH	154	PRO
8	AK	11	ASN
8	AK	105	HIS
11	AO	10	PRO
12	AP	64	ILE
13	A0	11	ASN
20	AU	77	PRO
21	AV	7	ALA
21	AV	141	VAL
23	AZ	92	LYS
3	BD	26	LYS
4	BE	37	ARG
4	BE	61	ARG
12	BP	7	MET
14	BQ	89	ARG
17	B2	77	ALA
20	BU	77	PRO
21	BV	116	VAL
21	BV	161	VAL
30	B8	30	ARG
47	CT	80	GLY
3	AD	28	GLU
4	AE	22	PRO
4	AE	54	GLN
4	AE	63	LEU
7	AH	83	TYR
8	AK	144	VAL
8	AK	145	VAL
9	AM	127	ASP
9	AM	128	HIS
11	AO	19	VAL
12	AP	78	PRO
14	AQ	88	ASP
17	A2	45	THR
20	AU	49	VAL
21	AV	165	VAL
22	A3	83	PRO
23	AZ	84	GLY
28	A6	45	LYS
3	BD	28	GLU
4	BE	44	TYR

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Mol	Chain	Res	Type
4	BE	62	PRO
5	BF	132	VAL
11	BO	7	ARG
11	BO	14	LYS
11	BO	49	ARG
12	BP	51	ARG
12	BP	55	VAL
12	BP	77	LYS
17	B2	49	THR
17	B2	86	GLY
20	BU	49	VAL
28	B6	46	HIS
34	CG	14	ARG
42	CO	15	VAL
32	DE	153	ARG
40	DM	32	ALA
40	DM	86	MET
50	DW	95	ALA
4	AE	4	ILE
4	AE	14	ILE
4	AE	55	ASN
7	AH	167	GLU
8	AK	10	GLU
8	AK	39	ALA
11	AO	62	LEU
12	AP	59	ARG
17	A2	48	GLY
20	AU	78	ALA
22	A3	84	LEU
24	AW	15	LYS
4	BE	26	ILE
4	BE	59	VAL
4	BE	204	ALA
5	BF	90	PHE
9	BM	128	HIS
11	BO	10	PRO
11	BO	12	ALA
11	BO	62	LEU
12	BP	90	VAL
21	BV	146	ILE
44	CQ	17	LYS
49	CV	41	VAL

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Mol	Chain	Res	Type
44	DQ	14	PRO
3	AD	240	ALA
7	AH	155	SER
8	AK	133	HIS
9	AM	115	ARG
11	AO	7	ARG
12	AP	21	THR
18	AS	59	VAL
24	AW	43	GLN
3	BD	29	PRO
4	BE	130	GLY
6	BG	5	VAL
10	BN	48	PRO
16	B1	92	ARG
24	BW	17	SER
44	CQ	14	PRO
33	DF	66	VAL
4	AE	21	VAL
6	AG	5	VAL
3	BD	240	ALA
8	BK	145	VAL
11	BO	23	PRO
12	BP	19	GLY
20	BU	85	VAL
49	CV	9	VAL
32	DE	39	ILE
42	DO	47	LYS
43	DP	117	VAL
4	AE	61	ARG
4	AE	72	VAL
7	AH	12	PRO
12	AP	61	GLY
17	A2	49	THR
20	AU	3	VAL
20	AU	39	VAL
30	A8	14	VAL
19	BT	51	VAL
23	BZ	30	VAL
32	CE	194	PRO
3	AD	3	VAL
11	AO	95	VAL
21	AV	62	PRO

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Mol	Chain	Res	Type
3	BD	3	VAL
7	BH	167	GLU
12	BP	61	GLY
20	BU	42	VAL
21	BV	141	VAL
35	CH	115	VAL
3	AD	35	LYS
7	AH	10	PRO
20	AU	42	VAL
21	AV	161	VAL
3	BD	35	LYS
12	BP	64	ILE
14	BQ	90	GLY
20	BU	3	VAL
20	BU	39	VAL
21	BV	61	LEU
26	B4	33	VAL
50	CW	100	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AD	214/218 (98%)	170 (79%)	44 (21%)	1	6
3	BD	214/218 (98%)	158 (74%)	56 (26%)	0	2
4	AE	165/166 (99%)	118 (72%)	47 (28%)	0	2
4	BE	165/166 (99%)	122 (74%)	43 (26%)	0	2
5	AF	161/166 (97%)	123 (76%)	38 (24%)	1	4
5	BF	165/166 (99%)	126 (76%)	39 (24%)	1	4
6	AG	155/156 (99%)	122 (79%)	33 (21%)	1	5
6	BG	155/156 (99%)	115 (74%)	40 (26%)	0	2
7	AH	142/148 (96%)	106 (75%)	36 (25%)	0	3
7	BH	142/148 (96%)	116 (82%)	26 (18%)	2	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	AK	122/124 (98%)	92 (75%)	30 (25%)	1	3
8	BK	122/124 (98%)	88 (72%)	34 (28%)	0	2
9	AM	117/119 (98%)	85 (73%)	32 (27%)	0	2
9	BM	117/119 (98%)	91 (78%)	26 (22%)	1	5
10	AN	100/100 (100%)	84 (84%)	16 (16%)	2	11
10	BN	100/100 (100%)	75 (75%)	25 (25%)	0	3
11	AO	116/116 (100%)	78 (67%)	38 (33%)	0	1
11	BO	116/116 (100%)	74 (64%)	42 (36%)	0	1
12	AP	111/111 (100%)	83 (75%)	28 (25%)	0	3
12	BP	111/111 (100%)	86 (78%)	25 (22%)	1	5
13	A0	101/101 (100%)	73 (72%)	28 (28%)	0	2
13	B0	100/101 (99%)	79 (79%)	21 (21%)	1	5
14	AQ	87/88 (99%)	62 (71%)	25 (29%)	0	2
14	BQ	87/88 (99%)	64 (74%)	23 (26%)	0	2
15	AR	120/127 (94%)	86 (72%)	34 (28%)	0	2
15	BR	120/127 (94%)	84 (70%)	36 (30%)	0	1
16	A1	93/94 (99%)	74 (80%)	19 (20%)	1	6
16	B1	93/94 (99%)	78 (84%)	15 (16%)	2	12
17	A2	82/82 (100%)	55 (67%)	27 (33%)	0	1
17	B2	82/82 (100%)	56 (68%)	26 (32%)	0	1
18	AS	92/92 (100%)	73 (79%)	19 (21%)	1	6
18	BS	92/92 (100%)	64 (70%)	28 (30%)	0	1
19	AT	74/78 (95%)	54 (73%)	20 (27%)	0	2
19	BT	74/78 (95%)	56 (76%)	18 (24%)	1	3
20	AU	85/91 (93%)	65 (76%)	20 (24%)	1	4
20	BU	85/91 (93%)	57 (67%)	28 (33%)	0	1
21	AV	154/179 (86%)	124 (80%)	30 (20%)	1	6
21	BV	158/179 (88%)	127 (80%)	31 (20%)	1	6
22	A3	61/67 (91%)	48 (79%)	13 (21%)	1	5
22	B3	62/67 (92%)	50 (81%)	12 (19%)	1	6
23	AZ	82/83 (99%)	63 (77%)	19 (23%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	BZ	82/83 (99%)	61 (74%)	21 (26%)	0	2
24	AW	62/67 (92%)	43 (69%)	19 (31%)	0	1
24	BW	64/67 (96%)	50 (78%)	14 (22%)	1	5
25	AX	51/52 (98%)	45 (88%)	6 (12%)	5	20
25	BX	51/52 (98%)	40 (78%)	11 (22%)	1	5
26	A4	59/63 (94%)	42 (71%)	17 (29%)	0	2
26	B4	57/63 (90%)	39 (68%)	18 (32%)	0	1
27	A5	51/52 (98%)	36 (71%)	15 (29%)	0	2
27	B5	51/52 (98%)	37 (72%)	14 (28%)	0	2
28	A6	44/52 (85%)	28 (64%)	16 (36%)	0	1
28	B6	44/52 (85%)	29 (66%)	15 (34%)	0	1
29	A7	42/42 (100%)	34 (81%)	8 (19%)	1	7
29	B7	42/42 (100%)	30 (71%)	12 (29%)	0	2
30	A8	51/55 (93%)	41 (80%)	10 (20%)	1	6
30	B8	51/55 (93%)	36 (71%)	15 (29%)	0	2
32	CE	205/220 (93%)	162 (79%)	43 (21%)	1	5
32	DE	205/220 (93%)	163 (80%)	42 (20%)	1	6
33	CF	159/188 (85%)	129 (81%)	30 (19%)	1	7
33	DF	160/188 (85%)	124 (78%)	36 (22%)	1	5
34	CG	180/180 (100%)	149 (83%)	31 (17%)	2	10
34	DG	180/180 (100%)	141 (78%)	39 (22%)	1	5
35	CH	116/123 (94%)	91 (78%)	25 (22%)	1	5
35	DH	116/123 (94%)	92 (79%)	24 (21%)	1	6
36	CI	90/90 (100%)	75 (83%)	15 (17%)	2	11
36	DI	90/90 (100%)	74 (82%)	16 (18%)	2	8
37	CJ	126/127 (99%)	102 (81%)	24 (19%)	1	7
37	DJ	126/127 (99%)	96 (76%)	30 (24%)	1	4
38	CK	119/119 (100%)	102 (86%)	17 (14%)	3	14
38	DK	119/119 (100%)	103 (87%)	16 (13%)	4	16
39	CL	98/99 (99%)	70 (71%)	28 (29%)	0	2
39	DL	98/99 (99%)	69 (70%)	29 (30%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
40	CM	89/92 (97%)	68 (76%)	21 (24%)	1	4
40	DM	89/92 (97%)	64 (72%)	25 (28%)	0	2
41	CN	90/99 (91%)	76 (84%)	14 (16%)	2	12
41	DN	90/99 (91%)	78 (87%)	12 (13%)	4	17
42	CO	104/109 (95%)	89 (86%)	15 (14%)	3	14
42	DO	104/109 (95%)	82 (79%)	22 (21%)	1	5
43	CP	94/101 (93%)	72 (77%)	22 (23%)	1	4
43	DP	94/101 (93%)	74 (79%)	20 (21%)	1	5
44	CQ	49/50 (98%)	33 (67%)	16 (33%)	0	1
44	DQ	49/50 (98%)	37 (76%)	12 (24%)	1	3
45	CR	79/80 (99%)	65 (82%)	14 (18%)	2	8
45	DR	79/80 (99%)	67 (85%)	12 (15%)	3	13
46	CS	72/74 (97%)	59 (82%)	13 (18%)	2	8
46	DS	72/74 (97%)	58 (81%)	14 (19%)	1	6
47	CT	95/97 (98%)	82 (86%)	13 (14%)	3	16
47	DT	95/97 (98%)	84 (88%)	11 (12%)	5	21
48	CU	63/77 (82%)	50 (79%)	13 (21%)	1	6
48	DU	63/77 (82%)	51 (81%)	12 (19%)	1	7
49	CV	67/80 (84%)	48 (72%)	19 (28%)	0	2
49	DV	67/80 (84%)	52 (78%)	15 (22%)	1	5
50	CW	76/82 (93%)	61 (80%)	15 (20%)	1	6
50	DW	76/82 (93%)	59 (78%)	17 (22%)	1	5
51	CX	20/22 (91%)	17 (85%)	3 (15%)	3	13
51	DX	20/22 (91%)	20 (100%)	0	100	100
All	All	9579/9996 (96%)	7383 (77%)	2196 (23%)	1	4

All (2196) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AD	3	VAL
3	AD	17	THR
3	AD	32	SER
3	AD	43	ARG
3	AD	44	ASN

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Mol	Chain	Res	Type
3	AD	61	LEU
3	AD	64	ILE
3	AD	65	ILE
3	AD	72	LYS
3	AD	91	ARG
3	AD	94	LEU
3	AD	95	LEU
3	AD	98	VAL
3	AD	101	GLU
3	AD	103	ARG
3	AD	105	ILE
3	AD	106	ILE
3	AD	112	GLN
3	AD	113	VAL
3	AD	117	VAL
3	AD	122	ASP
3	AD	126	GLN
3	AD	127	VAL
3	AD	131	LEU
3	AD	136	ILE
3	AD	141	VAL
3	AD	155	LEU
3	AD	162	SER
3	AD	164	GLN
3	AD	166	GLN
3	AD	171	ASP
3	AD	173	VAL
3	AD	174	ILE
3	AD	212	SER
3	AD	217	ARG
3	AD	218	ARG
3	AD	221	VAL
3	AD	242	ARG
3	AD	257	LEU
3	AD	259	THR
3	AD	267	SER
3	AD	270	ILE
3	AD	271	ILE
3	AD	273	ARG
4	AE	1	MET
4	AE	13	ARG
4	AE	19	ARG

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Mol	Chain	Res	Type
4	AE	21	VAL
4	AE	23	VAL
4	AE	26	ILE
4	AE	33	VAL
4	AE	34	VAL
4	AE	40	GLU
4	AE	41	LYS
4	AE	47	VAL
4	AE	48	GLN
4	AE	49	LEU
4	AE	52	LEU
4	AE	54	GLN
4	AE	57	LYS
4	AE	59	VAL
4	AE	60	ASN
4	AE	61	ARG
4	AE	63	LEU
4	AE	66	HIS
4	AE	78	LEU
4	AE	79	ARG
4	AE	81	ILE
4	AE	87	GLU
4	AE	89	ASP
4	AE	93	VAL
4	AE	95	ILE
4	AE	101	ARG
4	AE	111	ARG
4	AE	116	VAL
4	AE	118	LYS
4	AE	119	ARG
4	AE	141	ILE
4	AE	144	ARG
4	AE	145	LYS
4	AE	146	THR
4	AE	154	LYS
4	AE	163	GLU
4	AE	167	VAL
4	AE	175	VAL
4	AE	179	GLU
4	AE	181	LEU
4	AE	188	VAL
4	AE	196	VAL

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Mol	Chain	Res	Type
4	AE	197	ILE
4	AE	203	LYS
5	AF	7	TYR
5	AF	8	GLN
5	AF	9	ILE
5	AF	15	SER
5	AF	17	ARG
5	AF	18	ARG
5	AF	24	LEU
5	AF	27	GLU
5	AF	32	LEU
5	AF	33	LEU
5	AF	38	ARG
5	AF	45	ARG
5	AF	46	ARG
5	AF	50	SER
5	AF	53	THR
5	AF	56	GLU
5	AF	57	VAL
5	AF	64	ILE
5	AF	67	GLN
5	AF	70	THR
5	AF	82	ILE
5	AF	88	VAL
5	AF	106	ARG
5	AF	108	LYS
5	AF	117	ARG
5	AF	127	GLU
5	AF	161	GLU
5	AF	162	LEU
5	AF	168	ARG
5	AF	170	LEU
5	AF	174	VAL
5	AF	181	LEU
5	AF	183	VAL
5	AF	189	THR
5	AF	197	ASP
5	AF	203	GLN
5	AF	205	ARG
5	AF	206	ILE
6	AG	10	LYS
6	AG	13	GLU

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Mol	Chain	Res	Type
6	AG	16	ARG
6	AG	20	ILE
6	AG	28	VAL
6	AG	31	VAL
6	AG	37	VAL
6	AG	43	LEU
6	AG	45	GLU
6	AG	47	LYS
6	AG	48	GLU
6	AG	63	ILE
6	AG	67	LYS
6	AG	70	VAL
6	AG	71	THR
6	AG	81	LYS
6	AG	82	LEU
6	AG	83	ARG
6	AG	90	LEU
6	AG	94	LEU
6	AG	96	ARG
6	AG	101	ILE
6	AG	104	GLU
6	AG	118	ARG
6	AG	121	ASN
6	AG	128	ARG
6	AG	130	ASN
6	AG	149	VAL
6	AG	159	VAL
6	AG	162	THR
6	AG	165	THR
6	AG	167	GLU
6	AG	176	LEU
7	AH	3	ARG
7	AH	4	ILE
7	AH	7	LEU
7	AH	9	ILE
7	AH	24	VAL
7	AH	41	MET
7	AH	44	VAL
7	AH	45	VAL
7	AH	50	VAL
7	AH	56	SER
7	AH	59	ARG

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Mol	Chain	Res	Type
7	AH	70	THR
7	AH	77	LYS
7	AH	81	GLU
7	AH	86	GLU
7	AH	89	ILE
7	AH	92	ILE
7	AH	97	ARG
7	AH	101	ARG
7	AH	104	GLU
7	AH	107	VAL
7	AH	113	VAL
7	AH	116	GLU
7	AH	122	THR
7	AH	127	GLU
7	AH	129	THR
7	AH	132	ARG
7	AH	136	ILE
7	AH	138	LYS
7	AH	139	GLN
7	AH	143	GLN
7	AH	153	LYS
7	AH	158	HIS
7	AH	163	TYR
7	AH	167	GLU
7	AH	170	ARG
8	AK	2	LYS
8	AK	3	VAL
8	AK	9	LEU
8	AK	11	ASN
8	AK	12	LEU
8	AK	18	VAL
8	AK	20	ASP
8	AK	38	LEU
8	AK	41	GLU
8	AK	44	LEU
8	AK	50	ARG
8	AK	54	GLN
8	AK	57	ARG
8	AK	64	GLU
8	AK	68	LEU
8	AK	71	ILE
8	AK	72	LEU

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Mol	Chain	Res	Type
8	AK	77	LEU
8	AK	78	THR
8	AK	85	GLU
8	AK	88	ILE
8	AK	92	VAL
8	AK	93	THR
8	AK	95	LYS
8	AK	101	LEU
8	AK	108	THR
8	AK	116	LEU
8	AK	135	GLU
8	AK	136	VAL
8	AK	140	LEU
9	AM	5	VAL
9	AM	7	LYS
9	AM	10	GLU
9	AM	14	VAL
9	AM	28	THR
9	AM	32	THR
9	AM	33	LEU
9	AM	34	LEU
9	AM	43	THR
9	AM	45	ASN
9	AM	46	VAL
9	AM	48	MET
9	AM	55	VAL
9	AM	60	ILE
9	AM	61	ARG
9	AM	63	THR
9	AM	67	LEU
9	AM	87	LEU
9	AM	89	LYS
9	AM	90	MET
9	AM	96	GLU
9	AM	97	ARG
9	AM	98	VAL
9	AM	99	LEU
9	AM	114	ARG
9	AM	120	LEU
9	AM	127	ASP
9	AM	130	HIS
9	AM	131	GLN

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Mol	Chain	Res	Type
9	AM	133	GLN
9	AM	134	ARG
9	AM	138	LEU
10	AN	1	MET
10	AN	8	LEU
10	AN	20	MET
10	AN	22	ILE
10	AN	23	ARG
10	AN	24	VAL
10	AN	31	LYS
10	AN	47	ILE
10	AN	52	VAL
10	AN	66	LYS
10	AN	68	GLU
10	AN	82	ASN
10	AN	85	VAL
10	AN	94	ARG
10	AN	98	VAL
10	AN	114	ILE
11	AO	6	LEU
11	AO	14	LYS
11	AO	15	ARG
11	AO	16	ARG
11	AO	19	VAL
11	AO	21	ARG
11	AO	30	THR
11	AO	36	LYS
11	AO	38	GLN
11	AO	41	ARG
11	AO	45	LEU
11	AO	46	LYS
11	AO	49	ARG
11	AO	50	ARG
11	AO	61	ARG
11	AO	62	LEU
11	AO	64	LYS
11	AO	65	ARG
11	AO	68	GLN
11	AO	75	ILE
11	AO	81	GLN
11	AO	88	LEU
11	AO	90	ARG

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Mol	Chain	Res	Type
11	AO	92	GLU
11	AO	96	THR
11	AO	99	LEU
11	AO	105	LEU
11	AO	106	LEU
11	AO	112	LEU
11	AO	125	VAL
11	AO	126	VAL
11	AO	135	LEU
11	AO	138	LEU
11	AO	139	LYS
11	AO	144	GLU
11	AO	146	VAL
11	AO	147	LEU
11	AO	148	LEU
12	AP	2	LEU
12	AP	3	MET
12	AP	5	ARG
12	AP	7	MET
12	AP	8	LYS
12	AP	21	THR
12	AP	22	LYS
12	AP	27	VAL
12	AP	35	VAL
12	AP	45	GLN
12	AP	52	VAL
12	AP	59	ARG
12	AP	63	LYS
12	AP	66	ILE
12	AP	72	LYS
12	AP	80	GLU
12	AP	82	ARG
12	AP	83	MET
12	AP	87	LYS
12	AP	90	VAL
12	AP	103	MET
12	AP	109	VAL
12	AP	110	THR
12	AP	112	GLU
12	AP	115	MET
12	AP	131	ILE
12	AP	134	ARG

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Mol	Chain	Res	Type
12	AP	139	GLU
13	A0	1	MET
13	A0	4	LEU
13	A0	6	SER
13	A0	18	LEU
13	A0	28	LEU
13	A0	29	LEU
13	A0	30	THR
13	A0	34	ILE
13	A0	35	THR
13	A0	36	THR
13	A0	37	THR
13	A0	40	LYS
13	A0	44	LEU
13	A0	45	ARG
13	A0	54	LEU
13	A0	60	LEU
13	A0	65	LEU
13	A0	71	GLN
13	A0	74	LYS
13	A0	75	LEU
13	A0	79	LEU
13	A0	83	ILE
13	A0	88	ARG
13	A0	91	GLN
13	A0	104	ARG
13	A0	105	ARG
13	A0	107	ASP
13	A0	113	LEU
14	AQ	5	THR
14	AQ	11	LYS
14	AQ	17	ARG
14	AQ	19	LYS
14	AQ	20	ARG
14	AQ	24	LEU
14	AQ	26	LEU
14	AQ	31	SER
14	AQ	35	ILE
14	AQ	36	TYR
14	AQ	42	ASP
14	AQ	43	GLU
14	AQ	46	VAL

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Mol	Chain	Res	Type
14	AQ	50	SER
14	AQ	54	LEU
14	AQ	58	LEU
14	AQ	59	LYS
14	AQ	69	VAL
14	AQ	73	LEU
14	AQ	83	LYS
14	AQ	89	ARG
14	AQ	98	VAL
14	AQ	101	LEU
14	AQ	106	ARG
14	AQ	111	GLU
15	AR	9	LEU
15	AR	11	GLU
15	AR	12	SER
15	AR	15	VAL
15	AR	17	THR
15	AR	19	LEU
15	AR	27	THR
15	AR	28	VAL
15	AR	30	VAL
15	AR	33	LYS
15	AR	35	LYS
15	AR	41	ARG
15	AR	42	ILE
15	AR	49	VAL
15	AR	50	ILE
15	AR	53	ARG
15	AR	57	PHE
15	AR	58	ASN
15	AR	59	THR
15	AR	74	ARG
15	AR	78	LEU
15	AR	85	LYS
15	AR	86	ILE
15	AR	87	ASP
15	AR	88	ILE
15	AR	89	VAL
15	AR	96	ARG
15	AR	99	LEU
15	AR	105	LEU
15	AR	106	SER

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Mol	Chain	Res	Type
15	AR	110	ILE
15	AR	112	ARG
15	AR	118	ARG
15	AR	128	GLU
16	A1	5	LYS
16	A1	15	LYS
16	A1	16	LYS
16	A1	27	LEU
16	A1	34	LYS
16	A1	47	TYR
16	A1	52	ARG
16	A1	60	LEU
16	A1	66	ASN
16	A1	70	ARG
16	A1	74	LEU
16	A1	76	TYR
16	A1	79	PHE
16	A1	97	ASP
16	A1	98	LEU
16	A1	108	GLU
16	A1	111	GLU
16	A1	112	ARG
16	A1	117	GLN
17	A2	5	VAL
17	A2	6	LYS
17	A2	7	THR
17	A2	12	TYR
17	A2	15	GLU
17	A2	18	LEU
17	A2	21	ARG
17	A2	24	LYS
17	A2	28	GLU
17	A2	32	THR
17	A2	33	VAL
17	A2	35	LEU
17	A2	39	LEU
17	A2	40	LEU
17	A2	44	LYS
17	A2	45	THR
17	A2	47	VAL
17	A2	52	VAL
17	A2	57	VAL

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Mol	Chain	Res	Type
17	A2	61	VAL
17	A2	64	HIS
17	A2	70	ILE
17	A2	73	SER
17	A2	79	VAL
17	A2	88	ARG
17	A2	95	LEU
17	A2	99	ILE
18	AS	1	MET
18	AS	11	ARG
18	AS	16	LYS
18	AS	17	VAL
18	AS	19	LEU
18	AS	39	THR
18	AS	41	LYS
18	AS	51	LEU
18	AS	67	ASP
18	AS	69	LEU
18	AS	70	TYR
18	AS	76	VAL
18	AS	78	GLU
18	AS	86	LEU
18	AS	92	ARG
18	AS	96	ILE
18	AS	100	THR
18	AS	107	LEU
18	AS	111	HIS
19	AT	12	VAL
19	AT	15	GLU
19	AT	23	GLU
19	AT	27	THR
19	AT	37	THR
19	AT	38	GLU
19	AT	41	ASN
19	AT	44	GLU
19	AT	53	LYS
19	AT	57	LEU
19	AT	63	LYS
19	AT	65	ARG
19	AT	70	LEU
19	AT	72	LYS
19	AT	76	ARG

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Mol	Chain	Res	Type
19	AT	80	ILE
19	AT	81	VAL
19	AT	83	VAL
19	AT	87	GLN
19	AT	88	LYS
20	AU	3	VAL
20	AU	6	HIS
20	AU	26	LYS
20	AU	27	VAL
20	AU	38	ILE
20	AU	40	GLU
20	AU	45	VAL
20	AU	52	SER
20	AU	57	GLN
20	AU	61	ILE
20	AU	64	GLU
20	AU	75	ILE
20	AU	76	CYS
20	AU	79	CYS
20	AU	86	ARG
20	AU	87	LYS
20	AU	90	LEU
20	AU	96	ILE
20	AU	97	ARG
20	AU	98	VAL
21	AV	2	GLU
21	AV	5	LEU
21	AV	19	ARG
21	AV	24	LEU
21	AV	33	LEU
21	AV	37	VAL
21	AV	41	LEU
21	AV	53	ILE
21	AV	59	LEU
21	AV	61	LEU
21	AV	71	VAL
21	AV	73	GLN
21	AV	76	LEU
21	AV	86	VAL
21	AV	87	ASP
21	AV	93	ASP
21	AV	96	VAL

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Mol	Chain	Res	Type
21	AV	97	GLU
21	AV	98	MET
21	AV	111	VAL
21	AV	117	LEU
21	AV	122	ARG
21	AV	124	ILE
21	AV	132	ASN
21	AV	135	GLU
21	AV	144	LEU
21	AV	146	ILE
21	AV	162	GLU
21	AV	169	GLU
21	AV	175	VAL
22	A3	20	ARG
22	A3	30	VAL
22	A3	36	ILE
22	A3	38	VAL
22	A3	40	GLN
22	A3	41	ARG
22	A3	46	LYS
22	A3	51	VAL
22	A3	53	MET
22	A3	55	ARG
22	A3	66	VAL
22	A3	67	VAL
22	A3	84	LEU
23	AZ	4	VAL
23	AZ	19	GLN
23	AZ	21	ARG
23	AZ	30	VAL
23	AZ	40	ARG
23	AZ	41	ARG
23	AZ	46	LEU
23	AZ	50	ARG
23	AZ	53	VAL
23	AZ	67	ILE
23	AZ	74	VAL
23	AZ	75	GLU
23	AZ	78	LYS
23	AZ	80	LEU
23	AZ	82	LEU
23	AZ	83	GLU

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Mol	Chain	Res	Type
23	AZ	90	ILE
23	AZ	91	LYS
23	AZ	92	LYS
24	AW	5	GLU
24	AW	9	GLN
24	AW	14	ARG
24	AW	16	LEU
24	AW	17	SER
24	AW	19	VAL
24	AW	23	LYS
24	AW	24	LEU
24	AW	34	GLU
24	AW	35	LEU
24	AW	44	LEU
24	AW	47	ASN
24	AW	50	ILE
24	AW	53	LEU
24	AW	54	LYS
24	AW	62	THR
24	AW	64	LEU
24	AW	65	ASN
24	AW	68	ARG
25	AX	8	LEU
25	AX	31	LEU
25	AX	32	GLN
25	AX	40	THR
25	AX	43	ILE
25	AX	56	VAL
26	A4	5	ILE
26	A4	10	VAL
26	A4	14	ILE
26	A4	15	ILE
26	A4	22	ILE
26	A4	27	THR
26	A4	33	VAL
26	A4	34	GLU
26	A4	39	CYS
26	A4	43	TYR
26	A4	47	GLN
26	A4	53	GLU
26	A4	57	GLU
26	A4	59	PHE

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Mol	Chain	Res	Type
26	A4	61	ARG
26	A4	62	ARG
26	A4	66	SER
27	A5	3	LYS
27	A5	4	HIS
27	A5	6	VAL
27	A5	11	THR
27	A5	16	ARG
27	A5	29	THR
27	A5	36	CYS
27	A5	37	LYS
27	A5	40	LYS
27	A5	44	THR
27	A5	45	VAL
27	A5	52	TYR
27	A5	56	LYS
27	A5	58	LEU
27	A5	60	VAL
28	A6	12	GLU
28	A6	13	CYS
28	A6	17	LYS
28	A6	18	ARG
28	A6	25	LYS
28	A6	26	ASN
28	A6	27	LYS
28	A6	28	ARG
28	A6	32	ASN
28	A6	34	LEU
28	A6	36	LEU
28	A6	37	ARG
28	A6	39	TYR
28	A6	44	ARG
28	A6	45	LYS
28	A6	51	GLU
29	A7	1	MET
29	A7	2	LYS
29	A7	4	THR
29	A7	8	ASN
29	A7	9	ARG
29	A7	14	LYS
29	A7	43	THR
29	A7	46	VAL

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Mol	Chain	Res	Type
30	A8	14	VAL
30	A8	29	LYS
30	A8	33	ASN
30	A8	41	ILE
30	A8	47	LYS
30	A8	49	VAL
30	A8	56	GLU
30	A8	58	ILE
30	A8	59	LYS
30	A8	62	LEU
3	BD	3	VAL
3	BD	4	LYS
3	BD	5	LYS
3	BD	13	ARG
3	BD	18	VAL
3	BD	20	ASP
3	BD	25	THR
3	BD	26	LYS
3	BD	27	THR
3	BD	28	GLU
3	BD	30	GLU
3	BD	31	LYS
3	BD	34	VAL
3	BD	43	ARG
3	BD	44	ASN
3	BD	46	GLN
3	BD	48	ARG
3	BD	49	ILE
3	BD	61	LEU
3	BD	64	ILE
3	BD	65	ILE
3	BD	69	ARG
3	BD	72	LYS
3	BD	91	ARG
3	BD	92	ILE
3	BD	94	LEU
3	BD	98	VAL
3	BD	103	ARG
3	BD	105	ILE
3	BD	106	ILE
3	BD	112	GLN
3	BD	117	VAL

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Mol	Chain	Res	Type
3	BD	126	GLN
3	BD	140	THR
3	BD	141	VAL
3	BD	147	LEU
3	BD	155	LEU
3	BD	157	ARG
3	BD	166	GLN
3	BD	176	ARG
3	BD	182	LEU
3	BD	192	THR
3	BD	193	VAL
3	BD	200	ASP
3	BD	211	ARG
3	BD	212	SER
3	BD	217	ARG
3	BD	218	ARG
3	BD	244	ARG
3	BD	255	LYS
3	BD	257	LEU
3	BD	260	ARG
3	BD	263	ARG
3	BD	267	SER
3	BD	271	ILE
3	BD	273	ARG
4	BE	7	VAL
4	BE	9	VAL
4	BE	21	VAL
4	BE	26	ILE
4	BE	33	VAL
4	BE	35	GLN
4	BE	36	ARG
4	BE	37	ARG
4	BE	44	TYR
4	BE	47	VAL
4	BE	48	GLN
4	BE	49	LEU
4	BE	52	LEU
4	BE	58	ARG
4	BE	59	VAL
4	BE	63	LEU
4	BE	69	LYS
4	BE	76	ARG

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Mol	Chain	Res	Type
4	BE	77	ILE
4	BE	78	LEU
4	BE	79	ARG
4	BE	82	ARG
4	BE	91	VAL
4	BE	93	VAL
4	BE	95	ILE
4	BE	107	THR
4	BE	116	VAL
4	BE	119	ARG
4	BE	133	LYS
4	BE	135	HIS
4	BE	144	ARG
4	BE	145	LYS
4	BE	152	LYS
4	BE	154	LYS
4	BE	175	VAL
4	BE	181	LEU
4	BE	182	LEU
4	BE	188	VAL
4	BE	196	VAL
4	BE	197	ILE
4	BE	200	GLU
4	BE	201	THR
4	BE	203	LYS
5	BF	7	TYR
5	BF	11	VAL
5	BF	17	ARG
5	BF	19	GLU
5	BF	20	LEU
5	BF	24	LEU
5	BF	33	LEU
5	BF	46	ARG
5	BF	52	LYS
5	BF	57	VAL
5	BF	62	ARG
5	BF	67	GLN
5	BF	68	LYS
5	BF	70	THR
5	BF	74	ARG
5	BF	82	ILE
5	BF	83	PHE

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Mol	Chain	Res	Type
5	BF	88	VAL
5	BF	100	THR
5	BF	106	ARG
5	BF	110	LEU
5	BF	123	LEU
5	BF	125	LEU
5	BF	127	GLU
5	BF	140	LEU
5	BF	149	ASP
5	BF	153	SER
5	BF	154	VAL
5	BF	158	THR
5	BF	165	ARG
5	BF	181	LEU
5	BF	183	VAL
5	BF	192	LEU
5	BF	194	MET
5	BF	196	LEU
5	BF	197	ASP
5	BF	199	TRP
5	BF	201	VAL
5	BF	205	ARG
6	BG	4	ASP
6	BG	10	LYS
6	BG	13	GLU
6	BG	19	LEU
6	BG	22	ARG
6	BG	26	GLN
6	BG	28	VAL
6	BG	34	LEU
6	BG	40	ASN
6	BG	45	GLU
6	BG	47	LYS
6	BG	52	ILE
6	BG	63	ILE
6	BG	67	LYS
6	BG	71	THR
6	BG	77	ILE
6	BG	79	ASN
6	BG	81	LYS
6	BG	82	LEU
6	BG	83	ARG

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Mol	Chain	Res	Type
6	BG	88	ILE
6	BG	90	LEU
6	BG	94	LEU
6	BG	96	ARG
6	BG	97	ASP
6	BG	108	ASN
6	BG	115	ARG
6	BG	118	ARG
6	BG	130	ASN
6	BG	133	LEU
6	BG	137	GLU
6	BG	138	GLN
6	BG	139	LEU
6	BG	146	TYR
6	BG	147	ASP
6	BG	148	MET
6	BG	159	VAL
6	BG	162	THR
6	BG	165	THR
6	BG	173	LEU
7	BH	4	ILE
7	BH	9	ILE
7	BH	24	VAL
7	BH	30	LYS
7	BH	34	GLU
7	BH	43	VAL
7	BH	44	VAL
7	BH	47	GLU
7	BH	50	VAL
7	BH	59	ARG
7	BH	70	THR
7	BH	72	ILE
7	BH	87	LEU
7	BH	89	ILE
7	BH	103	LEU
7	BH	105	LEU
7	BH	106	THR
7	BH	114	VAL
7	BH	125	VAL
7	BH	132	ARG
7	BH	136	ILE
7	BH	139	GLN

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Mol	Chain	Res	Type
7	BH	141	VAL
7	BH	143	GLN
7	BH	152	ARG
7	BH	171	LEU
8	BK	2	LYS
8	BK	7	GLU
8	BK	9	LEU
8	BK	11	ASN
8	BK	27	ARG
8	BK	37	VAL
8	BK	44	LEU
8	BK	52	ARG
8	BK	54	GLN
8	BK	56	LYS
8	BK	62	LYS
8	BK	74	ASN
8	BK	75	LEU
8	BK	76	THR
8	BK	77	LEU
8	BK	78	THR
8	BK	79	ILE
8	BK	81	VAL
8	BK	82	ARG
8	BK	101	LEU
8	BK	102	SER
8	BK	104	GLN
8	BK	107	VAL
8	BK	109	ILE
8	BK	110	ASP
8	BK	114	LEU
8	BK	117	GLU
8	BK	120	ILE
8	BK	122	GLU
8	BK	123	LEU
8	BK	125	GLU
8	BK	128	LEU
8	BK	133	HIS
8	BK	142	VAL
9	BM	7	LYS
9	BM	9	VAL
9	BM	28	THR
9	BM	32	THR

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Mol	Chain	Res	Type
9	BM	33	LEU
9	BM	34	LEU
9	BM	38	HIS
9	BM	43	THR
9	BM	45	ASN
9	BM	48	MET
9	BM	58	ASP
9	BM	63	THR
9	BM	67	LEU
9	BM	69	GLN
9	BM	83	LYS
9	BM	87	LEU
9	BM	89	LYS
9	BM	93	THR
9	BM	94	HIS
9	BM	96	GLU
9	BM	97	ARG
9	BM	99	LEU
9	BM	115	ARG
9	BM	120	LEU
9	BM	127	ASP
9	BM	137	LYS
10	BN	5	GLN
10	BN	8	LEU
10	BN	9	GLU
10	BN	10	VAL
10	BN	14	THR
10	BN	22	ILE
10	BN	23	ARG
10	BN	24	VAL
10	BN	28	SER
10	BN	35	VAL
10	BN	43	VAL
10	BN	49	ARG
10	BN	52	VAL
10	BN	62	VAL
10	BN	70	LYS
10	BN	85	VAL
10	BN	87	ILE
10	BN	94	ARG
10	BN	98	VAL
10	BN	102	VAL

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Mol	Chain	Res	Type
10	BN	104	ARG
10	BN	106	LEU
10	BN	108	GLU
10	BN	114	ILE
10	BN	117	LEU
11	BO	6	LEU
11	BO	7	ARG
11	BO	14	LYS
11	BO	15	ARG
11	BO	16	ARG
11	BO	21	ARG
11	BO	30	THR
11	BO	36	LYS
11	BO	41	ARG
11	BO	45	LEU
11	BO	46	LYS
11	BO	49	ARG
11	BO	50	ARG
11	BO	61	ARG
11	BO	62	LEU
11	BO	64	LYS
11	BO	65	ARG
11	BO	68	GLN
11	BO	75	ILE
11	BO	81	GLN
11	BO	83	VAL
11	BO	85	LEU
11	BO	87	ASP
11	BO	95	VAL
11	BO	96	THR
11	BO	98	GLU
11	BO	99	LEU
11	BO	100	LEU
11	BO	101	VAL
11	BO	105	LEU
11	BO	106	LEU
11	BO	111	ARG
11	BO	112	LEU
11	BO	114	ILE
11	BO	117	GLU
11	BO	124	LYS
11	BO	125	VAL

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Mol	Chain	Res	Type
11	BO	135	LEU
11	BO	138	LEU
11	BO	144	GLU
11	BO	147	LEU
11	BO	148	LEU
12	BP	5	ARG
12	BP	18	LYS
12	BP	21	THR
12	BP	25	ASP
12	BP	26	TYR
12	BP	45	GLN
12	BP	59	ARG
12	BP	63	LYS
12	BP	64	ILE
12	BP	66	ILE
12	BP	76	LYS
12	BP	79	LEU
12	BP	80	GLU
12	BP	82	ARG
12	BP	83	MET
12	BP	87	LYS
12	BP	90	VAL
12	BP	103	MET
12	BP	109	VAL
12	BP	110	THR
12	BP	112	GLU
12	BP	113	GLN
12	BP	120	ILE
12	BP	133	ARG
12	BP	141	GLN
13	B0	15	SER
13	B0	18	LEU
13	B0	28	LEU
13	B0	29	LEU
13	B0	37	THR
13	B0	40	LYS
13	B0	44	LEU
13	B0	48	VAL
13	B0	54	LEU
13	B0	57	ARG
13	B0	63	ARG
13	B0	65	LEU

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Mol	Chain	Res	Type
13	B0	71	GLN
13	B0	75	LEU
13	B0	76	VAL
13	B0	79	LEU
13	B0	81	ASP
13	B0	105	ARG
13	B0	107	ASP
13	B0	117	VAL
13	B0	118	GLU
14	BQ	14	VAL
14	BQ	15	ARG
14	BQ	17	ARG
14	BQ	20	ARG
14	BQ	21	THR
14	BQ	24	LEU
14	BQ	35	ILE
14	BQ	36	TYR
14	BQ	39	ILE
14	BQ	40	ILE
14	BQ	41	ASP
14	BQ	50	SER
14	BQ	58	LEU
14	BQ	59	LYS
14	BQ	65	VAL
14	BQ	69	VAL
14	BQ	71	ARG
14	BQ	83	LYS
14	BQ	84	GLN
14	BQ	89	ARG
14	BQ	93	LYS
14	BQ	106	ARG
14	BQ	110	LEU
15	BR	7	ILE
15	BR	8	LYS
15	BR	9	LEU
15	BR	11	GLU
15	BR	12	SER
15	BR	13	ARG
15	BR	23	ARG
15	BR	27	THR
15	BR	28	VAL
15	BR	29	ARG

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Mol	Chain	Res	Type
15	BR	30	VAL
15	BR	31	SER
15	BR	33	LYS
15	BR	59	THR
15	BR	63	VAL
15	BR	74	ARG
15	BR	80	SER
15	BR	85	LYS
15	BR	86	ILE
15	BR	87	ASP
15	BR	88	ILE
15	BR	89	VAL
15	BR	91	ARG
15	BR	93	ARG
15	BR	96	ARG
15	BR	98	LYS
15	BR	105	LEU
15	BR	107	ASP
15	BR	112	ARG
15	BR	117	ASP
15	BR	118	ARG
15	BR	121	ILE
15	BR	132	LYS
15	BR	134	GLU
15	BR	136	GLN
15	BR	137	LYS
16	B1	20	LEU
16	B1	27	LEU
16	B1	55	ARG
16	B1	64	ARG
16	B1	65	ILE
16	B1	71	GLN
16	B1	74	LEU
16	B1	78	THR
16	B1	83	LEU
16	B1	92	ARG
16	B1	95	LEU
16	B1	97	ASP
16	B1	105	VAL
16	B1	112	ARG
16	B1	117	GLN
17	B2	1	MET

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Mol	Chain	Res	Type
17	B2	18	LEU
17	B2	19	LYS
17	B2	35	LEU
17	B2	38	LEU
17	B2	40	LEU
17	B2	47	VAL
17	B2	57	VAL
17	B2	61	VAL
17	B2	62	LEU
17	B2	66	ARG
17	B2	70	ILE
17	B2	71	LEU
17	B2	72	VAL
17	B2	75	PHE
17	B2	78	LYS
17	B2	79	VAL
17	B2	80	GLN
17	B2	82	ARG
17	B2	84	LYS
17	B2	85	LYS
17	B2	87	HIS
17	B2	89	GLN
17	B2	91	TYR
17	B2	93	GLU
17	B2	95	LEU
18	BS	2	GLU
18	BS	11	ARG
18	BS	15	ARG
18	BS	19	LEU
18	BS	20	VAL
18	BS	23	LEU
18	BS	37	ARG
18	BS	39	THR
18	BS	40	ASN
18	BS	41	LYS
18	BS	50	VAL
18	BS	51	LEU
18	BS	59	VAL
18	BS	61	ASN
18	BS	63	ASP
18	BS	65	LEU
18	BS	67	ASP

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Mol	Chain	Res	Type
18	BS	70	TYR
18	BS	76	VAL
18	BS	83	LYS
18	BS	88	ARG
18	BS	94	ASP
18	BS	96	ILE
18	BS	98	LYS
18	BS	100	THR
18	BS	105	VAL
18	BS	106	ILE
18	BS	107	LEU
19	BT	12	VAL
19	BT	15	GLU
19	BT	30	VAL
19	BT	36	LYS
19	BT	37	THR
19	BT	38	GLU
19	BT	43	VAL
19	BT	44	GLU
19	BT	54	VAL
19	BT	55	ASN
19	BT	60	ARG
19	BT	63	LYS
19	BT	64	LYS
19	BT	69	TYR
19	BT	76	ARG
19	BT	80	ILE
19	BT	82	GLN
19	BT	92	LEU
20	BU	3	VAL
20	BU	4	LYS
20	BU	13	VAL
20	BU	23	ARG
20	BU	26	LYS
20	BU	27	VAL
20	BU	28	LYS
20	BU	29	GLU
20	BU	31	LEU
20	BU	44	ILE
20	BU	46	LYS
20	BU	50	ARG
20	BU	57	GLN

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Mol	Chain	Res	Type
20	BU	60	PHE
20	BU	62	GLU
20	BU	63	LYS
20	BU	75	ILE
20	BU	76	CYS
20	BU	79	CYS
20	BU	86	ARG
20	BU	89	PHE
20	BU	90	LEU
20	BU	91	GLU
20	BU	95	LYS
20	BU	96	ILE
20	BU	97	ARG
20	BU	99	CYS
20	BU	102	CYS
21	BV	14	LYS
21	BV	18	LEU
21	BV	19	ARG
21	BV	24	LEU
21	BV	29	TYR
21	BV	32	HIS
21	BV	35	ARG
21	BV	37	VAL
21	BV	50	GLN
21	BV	52	SER
21	BV	58	VAL
21	BV	60	GLU
21	BV	71	VAL
21	BV	73	GLN
21	BV	74	VAL
21	BV	76	LEU
21	BV	81	ARG
21	BV	94	GLU
21	BV	103	ARG
21	BV	112	ARG
21	BV	117	LEU
21	BV	118	GLN
21	BV	119	GLU
21	BV	121	HIS
21	BV	141	VAL
21	BV	144	LEU
21	BV	150	LEU

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Mol	Chain	Res	Type
21	BV	165	VAL
21	BV	170	THR
21	BV	175	VAL
21	BV	179	ASP
22	B3	9	SER
22	B3	12	ASN
22	B3	16	SER
22	B3	23	VAL
22	B3	25	ARG
22	B3	36	ILE
22	B3	40	GLN
22	B3	43	THR
22	B3	44	ARG
22	B3	50	ASN
22	B3	55	ARG
22	B3	82	ARG
23	BZ	3	LYS
23	BZ	6	GLU
23	BZ	25	LYS
23	BZ	37	ILE
23	BZ	38	SER
23	BZ	41	ARG
23	BZ	42	GLN
23	BZ	56	GLN
23	BZ	57	GLU
23	BZ	62	VAL
23	BZ	74	VAL
23	BZ	76	ARG
23	BZ	78	LYS
23	BZ	80	LEU
23	BZ	81	LYS
23	BZ	82	LEU
23	BZ	83	GLU
23	BZ	90	ILE
23	BZ	91	LYS
23	BZ	92	LYS
23	BZ	95	LEU
24	BW	5	GLU
24	BW	10	LEU
24	BW	15	LYS
24	BW	16	LEU
24	BW	22	GLU

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Mol	Chain	Res	Type
24	BW	32	LEU
24	BW	35	LEU
24	BW	44	LEU
24	BW	47	ASN
24	BW	51	ARG
24	BW	53	LEU
24	BW	60	LEU
24	BW	64	LEU
24	BW	65	ASN
25	BX	6	VAL
25	BX	8	LEU
25	BX	18	ASP
25	BX	24	LYS
25	BX	29	ARG
25	BX	32	GLN
25	BX	38	GLU
25	BX	40	THR
25	BX	52	HIS
25	BX	53	LEU
25	BX	58	VAL
26	B4	1	MET
26	B4	5	ILE
26	B4	6	HIS
26	B4	18	CYS
26	B4	20	ASN
26	B4	22	ILE
26	B4	24	THR
26	B4	27	THR
26	B4	30	GLU
26	B4	32	TYR
26	B4	44	THR
26	B4	46	GLN
26	B4	47	GLN
26	B4	48	ARG
26	B4	49	PHE
26	B4	52	THR
26	B4	53	GLU
26	B4	62	ARG
27	B5	3	LYS
27	B5	4	HIS
27	B5	12	SER
27	B5	16	ARG

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Mol	Chain	Res	Type
27	B5	25	LEU
27	B5	26	THR
27	B5	29	THR
27	B5	35	GLU
27	B5	37	LYS
27	B5	45	VAL
27	B5	48	GLU
27	B5	52	TYR
27	B5	56	LYS
27	B5	58	LEU
28	B6	9	LEU
28	B6	10	LEU
28	B6	17	LYS
28	B6	24	GLU
28	B6	27	LYS
28	B6	29	ASN
28	B6	30	THR
28	B6	32	ASN
28	B6	34	LEU
28	B6	37	ARG
28	B6	43	CYS
28	B6	44	ARG
28	B6	45	LYS
28	B6	47	THR
28	B6	53	LYS
29	B7	1	MET
29	B7	4	THR
29	B7	8	ASN
29	B7	9	ARG
29	B7	14	LYS
29	B7	24	THR
29	B7	32	LYS
29	B7	36	GLN
29	B7	43	THR
29	B7	46	VAL
29	B7	48	LYS
29	B7	49	ARG
30	B8	8	LYS
30	B8	21	LYS
30	B8	23	VAL
30	B8	29	LYS
30	B8	33	ASN

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Mol	Chain	Res	Type
30	B8	36	LYS
30	B8	41	ILE
30	B8	47	LYS
30	B8	48	PHE
30	B8	49	VAL
30	B8	50	LEU
30	B8	52	LYS
30	B8	54	GLU
30	B8	58	ILE
30	B8	61	LEU
32	CE	4	GLU
32	CE	8	LYS
32	CE	9	GLU
32	CE	11	LEU
32	CE	12	GLU
32	CE	15	VAL
32	CE	16	HIS
32	CE	17	PHE
32	CE	21	ARG
32	CE	22	LYS
32	CE	45	GLN
32	CE	48	MET
32	CE	68	ILE
32	CE	71	VAL
32	CE	75	LYS
32	CE	82	ARG
32	CE	96	ARG
32	CE	103	THR
32	CE	107	THR
32	CE	111	ARG
32	CE	113	HIS
32	CE	119	GLU
32	CE	121	LEU
32	CE	127	ILE
32	CE	145	LEU
32	CE	156	LYS
32	CE	164	VAL
32	CE	168	THR
32	CE	169	LYS
32	CE	172	ILE
32	CE	178	ARG
32	CE	185	ILE

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Mol	Chain	Res	Type
32	CE	187	LEU
32	CE	191	ASP
32	CE	196	LEU
32	CE	200	ILE
32	CE	204	ASN
32	CE	208	ILE
32	CE	217	ARG
32	CE	222	ILE
32	CE	223	ILE
32	CE	229	VAL
32	CE	240	GLN
33	CF	5	ILE
33	CF	8	ILE
33	CF	15	THR
33	CF	21	ARG
33	CF	26	LYS
33	CF	27	LYS
33	CF	30	ARG
33	CF	32	LEU
33	CF	36	ASP
33	CF	45	LYS
33	CF	47	LEU
33	CF	49	SER
33	CF	64	VAL
33	CF	79	ARG
33	CF	85	ARG
33	CF	104	GLN
33	CF	107	GLN
33	CF	116	VAL
33	CF	122	GLU
33	CF	128	PHE
33	CF	132	ARG
33	CF	138	VAL
33	CF	161	GLU
33	CF	165	THR
33	CF	167	TRP
33	CF	188	LEU
33	CF	192	THR
33	CF	196	LEU
33	CF	202	ILE
33	CF	206	GLU
34	CG	3	ARG

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Mol	Chain	Res	Type
34	CG	5	ILE
34	CG	10	ARG
34	CG	11	LEU
34	CG	12	CYS
34	CG	17	VAL
34	CG	19	LEU
34	CG	26	CYS
34	CG	30	LYS
34	CG	33	MET
34	CG	58	LEU
34	CG	65	ARG
34	CG	84	LYS
34	CG	86	LYS
34	CG	91	SER
34	CG	92	VAL
34	CG	96	LEU
34	CG	114	ARG
34	CG	122	ARG
34	CG	127	THR
34	CG	135	LEU
34	CG	150	GLU
34	CG	154	ASN
34	CG	156	GLU
34	CG	188	LEU
34	CG	190	ASP
34	CG	192	GLU
34	CG	193	ASP
34	CG	194	LEU
34	CG	201	GLN
34	CG	208	SER
35	CH	6	PHE
35	CH	10	MET
35	CH	11	ILE
35	CH	12	LEU
35	CH	13	ILE
35	CH	16	THR
35	CH	32	VAL
35	CH	33	VAL
35	CH	41	VAL
35	CH	43	LEU
35	CH	51	VAL
35	CH	53	LEU

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Mol	Chain	Res	Type
35	CH	64	ARG
35	CH	66	MET
35	CH	73	ASN
35	CH	79	GLU
35	CH	80	ILE
35	CH	91	LEU
35	CH	116	THR
35	CH	121	LYS
35	CH	126	ARG
35	CH	144	THR
35	CH	147	ASP
35	CH	148	VAL
35	CH	153	LYS
36	CI	19	LEU
36	CI	21	LEU
36	CI	23	LYS
36	CI	24	GLU
36	CI	25	ILE
36	CI	28	ARG
36	CI	40	VAL
36	CI	55	ASP
36	CI	63	TYR
36	CI	64	GLN
36	CI	75	LEU
36	CI	83	ASP
36	CI	91	VAL
36	CI	92	LYS
36	CI	98	LEU
37	CJ	8	GLU
37	CJ	23	VAL
37	CJ	27	ILE
37	CJ	33	ASP
37	CJ	35	LYS
37	CJ	36	LYS
37	CJ	38	LEU
37	CJ	49	ILE
37	CJ	56	GLN
37	CJ	63	LYS
37	CJ	66	VAL
37	CJ	78	ARG
37	CJ	80	VAL
37	CJ	89	MET

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Mol	Chain	Res	Type
37	CJ	90	GLU
37	CJ	91	VAL
37	CJ	94	ARG
37	CJ	104	LEU
37	CJ	113	GLU
37	CJ	120	ILE
37	CJ	124	LEU
37	CJ	137	LYS
37	CJ	141	VAL
37	CJ	155	ARG
38	CK	1	MET
38	CK	19	VAL
38	CK	24	THR
38	CK	26	VAL
38	CK	29	SER
38	CK	35	ILE
38	CK	51	VAL
38	CK	63	LEU
38	CK	68	ARG
38	CK	75	ARG
38	CK	77	GLU
38	CK	80	ILE
38	CK	85	ARG
38	CK	95	VAL
38	CK	98	LYS
38	CK	105	ARG
38	CK	107	LEU
39	CL	2	GLU
39	CL	7	THR
39	CL	9	ARG
39	CL	10	ARG
39	CL	14	VAL
39	CL	20	ARG
39	CL	25	LYS
39	CL	26	VAL
39	CL	35	GLU
39	CL	38	GLN
39	CL	40	LEU
39	CL	42	ARG
39	CL	47	LEU
39	CL	50	LEU
39	CL	58	HIS

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Mol	Chain	Res	Type
39	CL	64	THR
39	CL	65	VAL
39	CL	70	LYS
39	CL	79	LEU
39	CL	83	ARG
39	CL	93	ARG
39	CL	95	LYS
39	CL	96	LEU
39	CL	105	ASP
39	CL	108	VAL
39	CL	109	VAL
39	CL	114	TYR
39	CL	126	SER
40	CM	16	LEU
40	CM	24	VAL
40	CM	29	ARG
40	CM	33	GLN
40	CM	34	VAL
40	CM	35	SER
40	CM	44	VAL
40	CM	46	ARG
40	CM	48	THR
40	CM	55	LYS
40	CM	62	HIS
40	CM	70	ARG
40	CM	74	ILE
40	CM	80	LYS
40	CM	84	GLN
40	CM	85	LEU
40	CM	86	MET
40	CM	92	THR
40	CM	96	ILE
40	CM	100	THR
40	CM	101	VAL
41	CN	28	THR
41	CN	29	ILE
41	CN	30	VAL
41	CN	31	THR
41	CN	41	THR
41	CN	63	LEU
41	CN	84	VAL
41	CN	87	THR

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Mol	Chain	Res	Type
41	CN	91	ARG
41	CN	104	GLN
41	CN	109	VAL
41	CN	114	VAL
41	CN	119	CYS
41	CN	127	LYS
42	CO	4	ILE
42	CO	8	VAL
42	CO	30	ARG
42	CO	46	ASN
42	CO	57	LEU
42	CO	59	SER
42	CO	75	GLN
42	CO	80	VAL
42	CO	86	ARG
42	CO	88	LYS
42	CO	89	ASP
42	CO	93	VAL
42	CO	99	ARG
42	CO	115	SER
42	CO	124	GLU
43	CP	4	ILE
43	CP	17	VAL
43	CP	19	LEU
43	CP	20	THR
43	CP	34	LEU
43	CP	39	ILE
43	CP	45	VAL
43	CP	47	ASP
43	CP	54	VAL
43	CP	56	LEU
43	CP	57	ARG
43	CP	64	TRP
43	CP	67	GLU
43	CP	69	GLU
43	CP	70	LEU
43	CP	78	ILE
43	CP	84	ILE
43	CP	88	ARG
43	CP	102	ARG
43	CP	105	THR
43	CP	108	ARG

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Mol	Chain	Res	Type
43	CP	114	ARG
44	CQ	3	ARG
44	CQ	7	ILE
44	CQ	9	LYS
44	CQ	15	LYS
44	CQ	18	VAL
44	CQ	23	ARG
44	CQ	27	CYS
44	CQ	31	ARG
44	CQ	33	VAL
44	CQ	41	ARG
44	CQ	43	CYS
44	CQ	44	LEU
44	CQ	45	ARG
44	CQ	56	VAL
44	CQ	57	ARG
44	CQ	60	SER
45	CR	6	GLU
45	CR	21	ASP
45	CR	26	GLU
45	CR	31	LEU
45	CR	38	ARG
45	CR	39	LEU
45	CR	47	LYS
45	CR	56	LEU
45	CR	65	ARG
45	CR	66	LEU
45	CR	67	LEU
45	CR	71	GLN
45	CR	82	ILE
45	CR	88	ARG
46	CS	2	VAL
46	CS	4	ILE
46	CS	20	VAL
46	CS	21	VAL
46	CS	22	THR
46	CS	25	ARG
46	CS	33	ILE
46	CS	53	VAL
46	CS	55	ARG
46	CS	58	TYR
46	CS	67	THR

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Mol	Chain	Res	Type
46	CS	69	THR
46	CS	82	GLN
47	CT	9	VAL
47	CT	12	SER
47	CT	17	LYS
47	CT	35	VAL
47	CT	38	ARG
47	CT	52	LYS
47	CT	57	VAL
47	CT	60	ILE
47	CT	67	LYS
47	CT	68	ARG
47	CT	74	LEU
47	CT	79	SER
47	CT	89	LEU
48	CU	22	VAL
48	CU	26	LEU
48	CU	31	LEU
48	CU	32	ARG
48	CU	35	ARG
48	CU	36	ASN
48	CU	42	ARG
48	CU	46	GLU
48	CU	65	ILE
48	CU	76	LEU
48	CU	82	THR
48	CU	83	GLU
48	CU	86	VAL
49	CV	7	LYS
49	CV	10	PHE
49	CV	22	LEU
49	CV	25	LYS
49	CV	27	GLU
49	CV	29	ARG
49	CV	30	LEU
49	CV	31	ILE
49	CV	37	ARG
49	CV	40	ILE
49	CV	43	GLU
49	CV	48	THR
49	CV	60	VAL
49	CV	61	TYR

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Mol	Chain	Res	Type
49	CV	65	ASN
49	CV	71	LEU
49	CV	77	THR
49	CV	81	ARG
49	CV	83	HIS
50	CW	9	ASN
50	CW	13	LEU
50	CW	24	LEU
50	CW	26	ASN
50	CW	33	ILE
50	CW	41	ILE
50	CW	50	GLU
50	CW	55	ILE
50	CW	62	LEU
50	CW	72	LEU
50	CW	73	HIS
50	CW	75	ASN
50	CW	84	LEU
50	CW	88	VAL
50	CW	93	GLU
51	CX	10	ARG
51	CX	15	ARG
51	CX	26	LYS
32	DE	5	ILE
32	DE	10	LEU
32	DE	16	HIS
32	DE	17	PHE
32	DE	19	HIS
32	DE	20	GLU
32	DE	32	ILE
32	DE	44	LEU
32	DE	45	GLN
32	DE	48	MET
32	DE	49	GLU
32	DE	51	LEU
32	DE	56	ARG
32	DE	59	GLU
32	DE	67	THR
32	DE	73	THR
32	DE	75	LYS
32	DE	80	ILE
32	DE	84	GLU

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Mol	Chain	Res	Type
32	DE	90	MET
32	DE	92	TYR
32	DE	101	MET
32	DE	107	THR
32	DE	111	ARG
32	DE	114	ARG
32	DE	130	ARG
32	DE	137	ARG
32	DE	140	HIS
32	DE	144	ARG
32	DE	147	LYS
32	DE	155	LEU
32	DE	164	VAL
32	DE	168	THR
32	DE	178	ARG
32	DE	179	LYS
32	DE	185	ILE
32	DE	189	ASP
32	DE	196	LEU
32	DE	215	LEU
32	DE	230	VAL
32	DE	238	LEU
32	DE	239	VAL
33	DF	5	ILE
33	DF	6	HIS
33	DF	18	TRP
33	DF	21	ARG
33	DF	26	LYS
33	DF	27	LYS
33	DF	28	GLN
33	DF	35	GLU
33	DF	36	ASP
33	DF	42	LEU
33	DF	43	LEU
33	DF	47	LEU
33	DF	69	HIS
33	DF	76	VAL
33	DF	77	ILE
33	DF	79	ARG
33	DF	84	ILE
33	DF	89	GLU
33	DF	94	LEU

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Mol	Chain	Res	Type
33	DF	98	ASN
33	DF	99	VAL
33	DF	101	LEU
33	DF	122	GLU
33	DF	124	ILE
33	DF	131	ARG
33	DF	140	ARG
33	DF	161	GLU
33	DF	165	THR
33	DF	166	GLU
33	DF	178	LEU
33	DF	184	TYR
33	DF	192	THR
33	DF	195	VAL
33	DF	196	LEU
33	DF	206	GLU
33	DF	207	VAL
34	DG	8	VAL
34	DG	9	CYS
34	DG	10	ARG
34	DG	11	LEU
34	DG	13	ARG
34	DG	14	ARG
34	DG	17	VAL
34	DG	19	LEU
34	DG	21	LEU
34	DG	22	LYS
34	DG	24	GLU
34	DG	25	ARG
34	DG	26	CYS
34	DG	30	LYS
34	DG	36	ARG
34	DG	49	ARG
34	DG	50	ARG
34	DG	59	ARG
34	DG	70	ILE
34	DG	78	LEU
34	DG	85	LYS
34	DG	96	LEU
34	DG	107	ARG
34	DG	112	VAL
34	DG	115	ARG

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Mol	Chain	Res	Type
34	DG	118	ARG
34	DG	122	ARG
34	DG	127	THR
34	DG	132	ARG
34	DG	135	LEU
34	DG	137	SER
34	DG	139	ARG
34	DG	155	LEU
34	DG	170	VAL
34	DG	187	ARG
34	DG	191	ARG
34	DG	192	GLU
34	DG	196	LEU
34	DG	200	GLU
35	DH	5	ASP
35	DH	12	LEU
35	DH	13	ILE
35	DH	19	MET
35	DH	31	LEU
35	DH	33	VAL
35	DH	34	VAL
35	DH	41	VAL
35	DH	43	LEU
35	DH	51	VAL
35	DH	73	ASN
35	DH	76	ILE
35	DH	78	HIS
35	DH	79	GLU
35	DH	87	SER
35	DH	91	LEU
35	DH	100	VAL
35	DH	101	ILE
35	DH	111	GLU
35	DH	126	ARG
35	DH	137	GLU
35	DH	141	GLN
35	DH	144	THR
35	DH	153	LYS
36	DI	14	LEU
36	DI	15	ASP
36	DI	21	LEU
36	DI	27	GLN

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Mol	Chain	Res	Type
36	DI	30	LEU
36	DI	43	LEU
36	DI	45	LEU
36	DI	47	ARG
36	DI	54	LYS
36	DI	63	TYR
36	DI	65	VAL
36	DI	72	VAL
36	DI	81	ILE
36	DI	91	VAL
36	DI	93	SER
36	DI	95	GLU
37	DJ	4	ARG
37	DJ	8	GLU
37	DJ	9	VAL
37	DJ	11	GLN
37	DJ	13	GLN
37	DJ	16	LEU
37	DJ	24	THR
37	DJ	29	LYS
37	DJ	38	LEU
37	DJ	45	ASP
37	DJ	47	CYS
37	DJ	53	LYS
37	DJ	60	LYS
37	DJ	63	LYS
37	DJ	72	ARG
37	DJ	75	VAL
37	DJ	78	ARG
37	DJ	80	VAL
37	DJ	85	TYR
37	DJ	87	VAL
37	DJ	89	MET
37	DJ	104	LEU
37	DJ	113	GLU
37	DJ	118	VAL
37	DJ	120	ILE
37	DJ	131	LYS
37	DJ	137	LYS
37	DJ	146	GLU
37	DJ	151	TYR
37	DJ	155	ARG

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Mol	Chain	Res	Type
38	DK	1	MET
38	DK	26	VAL
38	DK	30	ARG
38	DK	41	ARG
38	DK	50	ARG
38	DK	54	ASP
38	DK	60	ARG
38	DK	79	VAL
38	DK	82	HIS
38	DK	84	ARG
38	DK	88	LYS
38	DK	91	ARG
38	DK	102	ARG
38	DK	109	ILE
38	DK	111	ILE
38	DK	116	LYS
39	DL	7	THR
39	DL	10	ARG
39	DL	14	VAL
39	DL	16	ARG
39	DL	20	ARG
39	DL	23	ASN
39	DL	27	THR
39	DL	28	VAL
39	DL	29	ASN
39	DL	38	GLN
39	DL	40	LEU
39	DL	54	ASP
39	DL	56	LEU
39	DL	64	THR
39	DL	78	LYS
39	DL	79	LEU
39	DL	88	TYR
39	DL	89	ASN
39	DL	91	ASP
39	DL	95	LYS
39	DL	97	LYS
39	DL	102	LEU
39	DL	104	ARG
39	DL	109	VAL
39	DL	110	GLU
39	DL	113	LYS

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Mol	Chain	Res	Type
39	DL	114	TYR
39	DL	117	HIS
39	DL	118	LYS
40	DM	4	ILE
40	DM	9	ARG
40	DM	13	HIS
40	DM	16	LEU
40	DM	19	SER
40	DM	21	GLN
40	DM	30	SER
40	DM	38	ILE
40	DM	40	LEU
40	DM	47	PHE
40	DM	48	THR
40	DM	55	LYS
40	DM	59	SER
40	DM	62	HIS
40	DM	69	ASN
40	DM	72	VAL
40	DM	78	ASN
40	DM	80	LYS
40	DM	84	GLN
40	DM	85	LEU
40	DM	87	THR
40	DM	90	LEU
40	DM	96	ILE
40	DM	98	ILE
40	DM	101	VAL
41	DN	12	ARG
41	DN	14	VAL
41	DN	33	THR
41	DN	48	ILE
41	DN	57	THR
41	DN	63	LEU
41	DN	87	THR
41	DN	98	LEU
41	DN	114	VAL
41	DN	119	CYS
41	DN	126	ARG
41	DN	127	LYS
42	DO	6	THR
42	DO	17	LYS

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Mol	Chain	Res	Type
42	DO	20	LYS
42	DO	23	LYS
42	DO	27	LEU
42	DO	41	ARG
42	DO	42	THR
42	DO	46	LYS
42	DO	47	LYS
42	DO	49	ASN
42	DO	55	VAL
42	DO	60	LEU
42	DO	62	SER
42	DO	81	SER
42	DO	82	VAL
42	DO	84	LEU
42	DO	85	ILE
42	DO	100	ILE
42	DO	102	ARG
42	DO	104	VAL
42	DO	114	LYS
42	DO	117	ARG
43	DP	4	ILE
43	DP	14	ARG
43	DP	19	LEU
43	DP	32	GLU
43	DP	48	LEU
43	DP	54	VAL
43	DP	55	ARG
43	DP	58	GLU
43	DP	66	LEU
43	DP	70	LEU
43	DP	79	LYS
43	DP	81	LEU
43	DP	82	MET
43	DP	83	ASP
43	DP	98	VAL
43	DP	101	GLN
43	DP	103	THR
43	DP	105	THR
43	DP	108	ARG
43	DP	110	ARG
44	DQ	4	LYS
44	DQ	6	LEU

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Mol	Chain	Res	Type
44	DQ	8	GLU
44	DQ	15	LYS
44	DQ	16	PHE
44	DQ	18	VAL
44	DQ	22	THR
44	DQ	25	VAL
44	DQ	33	VAL
44	DQ	44	LEU
44	DQ	46	GLU
44	DQ	60	SER
45	DR	3	ILE
45	DR	4	THR
45	DR	17	ARG
45	DR	26	GLU
45	DR	31	LEU
45	DR	35	ARG
45	DR	38	ARG
45	DR	41	GLU
45	DR	58	MET
45	DR	82	ILE
45	DR	83	GLU
45	DR	88	ARG
46	DS	1	MET
46	DS	2	VAL
46	DS	5	ARG
46	DS	6	LEU
46	DS	8	ARG
46	DS	20	VAL
46	DS	21	VAL
46	DS	33	ILE
46	DS	45	THR
46	DS	53	VAL
46	DS	55	ARG
46	DS	67	THR
46	DS	74	LEU
46	DS	82	GLN
47	DT	9	VAL
47	DT	12	SER
47	DT	19	VAL
47	DT	35	VAL
47	DT	38	ARG
47	DT	52	LYS

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Mol	Chain	Res	Type
47	DT	53	LEU
47	DT	68	ARG
47	DT	73	VAL
47	DT	74	LEU
47	DT	98	LEU
48	DU	23	LYS
48	DU	26	LEU
48	DU	28	GLU
48	DU	29	PHE
48	DU	32	ARG
48	DU	44	LEU
48	DU	47	THR
48	DU	53	ARG
48	DU	54	ARG
48	DU	58	LEU
48	DU	82	THR
48	DU	86	VAL
49	DV	11	VAL
49	DV	15	LEU
49	DV	22	LEU
49	DV	23	ASN
49	DV	25	LYS
49	DV	28	LYS
49	DV	33	THR
49	DV	36	ARG
49	DV	41	VAL
49	DV	60	VAL
49	DV	63	THR
49	DV	66	MET
49	DV	78	ARG
49	DV	79	THR
49	DV	83	HIS
50	DW	10	LEU
50	DW	11	SER
50	DW	26	ASN
50	DW	27	LYS
50	DW	30	LYS
50	DW	39	LYS
50	DW	50	GLU
50	DW	56	MET
50	DW	58	LYS
50	DW	62	LEU

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Mol	Chain	Res	Type
50	DW	72	LEU
50	DW	73	HIS
50	DW	75	ASN
50	DW	80	ARG
50	DW	83	ARG
50	DW	84	LEU
50	DW	90	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (291) such sidechains are listed below:

Mol	Chain	Res	Type
3	AD	58	HIS
3	AD	96	HIS
3	AD	166	GLN
3	AD	186	HIS
3	AD	198	ASN
4	AE	35	GLN
4	AE	48	GLN
4	AE	54	GLN
4	AE	180	ASN
5	AF	8	GLN
5	AF	67	GLN
5	AF	69	HIS
5	AF	169	ASN
5	AF	203	GLN
6	AG	40	ASN
6	AG	108	ASN
6	AG	121	ASN
6	AG	123	ASN
7	AH	143	GLN
7	AH	147	ASN
8	AK	11	ASN
8	AK	28	ASN
8	AK	139	GLN
9	AM	38	HIS
9	AM	45	ASN
9	AM	128	HIS
9	AM	131	GLN
9	AM	133	GLN
10	AN	5	GLN
10	AN	82	ASN
11	AO	9	ASN

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Mol	Chain	Res	Type
11	AO	68	GLN
11	AO	81	GLN
11	AO	84	ASN
11	AO	128	HIS
12	AP	12	GLN
13	A0	3	HIS
13	A0	16	HIS
13	A0	23	ASN
13	A0	24	GLN
13	A0	71	GLN
14	AQ	34	HIS
14	AQ	61	ASN
15	AR	43	GLN
15	AR	55	ASN
15	AR	58	ASN
15	AR	79	HIS
16	A1	44	ASN
16	A1	49	HIS
16	A1	71	GLN
16	A1	94	ASN
17	A2	11	GLN
17	A2	80	GLN
17	A2	89	GLN
18	AS	34	ASN
18	AS	40	ASN
18	AS	57	ASN
18	AS	62	HIS
18	AS	102	HIS
18	AS	111	HIS
19	AT	31	HIS
19	AT	41	ASN
19	AT	55	ASN
19	AT	82	GLN
20	AU	6	HIS
21	AV	50	GLN
21	AV	65	GLN
21	AV	75	ASN
21	AV	121	HIS
21	AV	151	HIS
22	A3	17	GLN
22	A3	29	GLN
22	A3	35	ASN

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Mol	Chain	Res	Type
22	A3	40	GLN
23	AZ	19	GLN
23	AZ	56	GLN
23	AZ	66	HIS
24	AW	9	GLN
24	AW	43	GLN
24	AW	65	ASN
25	AX	19	GLN
25	AX	46	ASN
25	AX	52	HIS
26	A4	47	GLN
27	A5	4	HIS
27	A5	22	HIS
27	A5	43	HIS
28	A6	46	HIS
28	A6	49	HIS
29	A7	8	ASN
29	A7	36	GLN
30	A8	43	GLN
3	BD	44	ASN
3	BD	58	HIS
3	BD	96	HIS
3	BD	126	GLN
3	BD	143	HIS
3	BD	166	GLN
3	BD	186	HIS
3	BD	198	ASN
4	BE	35	GLN
4	BE	48	GLN
4	BE	55	ASN
4	BE	192	ASN
5	BF	133	ASN
6	BG	40	ASN
6	BG	41	GLN
6	BG	79	ASN
6	BG	138	GLN
7	BH	147	ASN
8	BK	54	GLN
8	BK	104	GLN
8	BK	105	HIS
9	BM	69	GLN
9	BM	101	HIS

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Mol	Chain	Res	Type
9	BM	133	GLN
10	BN	82	ASN
11	BO	68	GLN
11	BO	128	HIS
12	BP	12	GLN
12	BP	13	GLN
12	BP	123	HIS
13	B0	11	ASN
13	B0	13	HIS
13	B0	16	HIS
13	B0	23	ASN
13	B0	24	GLN
13	B0	31	HIS
13	B0	71	GLN
15	BR	43	GLN
15	BR	58	ASN
15	BR	90	GLN
15	BR	136	GLN
16	B1	49	HIS
16	B1	71	GLN
16	B1	81	HIS
16	B1	117	GLN
17	B2	64	HIS
17	B2	80	GLN
17	B2	87	HIS
17	B2	89	GLN
18	BS	34	ASN
18	BS	57	ASN
18	BS	60	ASN
18	BS	61	ASN
18	BS	62	HIS
18	BS	102	HIS
18	BS	111	HIS
19	BT	55	ASN
19	BT	82	GLN
19	BT	87	GLN
21	BV	32	HIS
21	BV	34	ASN
21	BV	50	GLN
21	BV	65	GLN
21	BV	132	ASN
22	B3	12	ASN

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Mol	Chain	Res	Type
22	B3	17	GLN
22	B3	29	GLN
22	B3	70	GLN
23	BZ	56	GLN
23	BZ	66	HIS
24	BW	9	GLN
24	BW	38	GLN
24	BW	47	ASN
24	BW	48	HIS
25	BX	19	GLN
25	BX	33	GLN
25	BX	46	ASN
26	B4	47	GLN
26	B4	60	GLN
27	B5	4	HIS
27	B5	23	HIS
27	B5	43	HIS
28	B6	29	ASN
28	B6	46	HIS
29	B7	8	ASN
29	B7	36	GLN
30	B8	43	GLN
32	CE	19	HIS
32	CE	45	GLN
32	CE	78	GLN
32	CE	204	ASN
32	CE	212	GLN
33	CF	104	GLN
33	CF	136	GLN
33	CF	162	GLN
33	CF	170	GLN
33	CF	176	HIS
33	CF	181	ASN
34	CG	42	GLN
34	CG	45	GLN
34	CG	74	GLN
34	CG	119	GLN
34	CG	123	HIS
34	CG	160	GLN
34	CG	201	GLN
35	CH	20	GLN
35	CH	78	HIS

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Mol	Chain	Res	Type
36	CI	18	GLN
36	CI	57	GLN
36	CI	64	GLN
36	CI	100	ASN
37	CJ	37	ASN
37	CJ	148	ASN
38	CK	70	GLN
39	CL	124	GLN
40	CM	33	GLN
40	CM	56	HIS
40	CM	62	HIS
40	CM	84	GLN
41	CN	78	GLN
41	CN	99	GLN
42	CO	6	GLN
42	CO	46	ASN
42	CO	72	HIS
42	CO	96	HIS
43	CP	62	ASN
43	CP	77	ASN
43	CP	101	GLN
43	CP	106	ASN
44	CQ	49	HIS
45	CR	37	ASN
46	CS	13	HIS
46	CS	82	GLN
47	CT	16	GLN
47	CT	94	ASN
48	CU	36	ASN
49	CV	23	ASN
49	CV	47	HIS
49	CV	57	HIS
49	CV	65	ASN
49	CV	83	HIS
50	CW	9	ASN
50	CW	16	HIS
50	CW	26	ASN
32	DE	16	HIS
32	DE	78	GLN
32	DE	95	GLN
32	DE	135	GLN
32	DE	240	GLN

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Mol	Chain	Res	Type
33	DF	3	ASN
33	DF	63	ASN
33	DF	98	ASN
33	DF	123	GLN
34	DG	43	HIS
34	DG	45	GLN
34	DG	62	GLN
34	DG	77	ASN
34	DG	154	ASN
34	DG	160	GLN
34	DG	201	GLN
35	DH	141	GLN
36	DI	13	ASN
36	DI	32	ASN
36	DI	57	GLN
36	DI	100	ASN
37	DJ	13	GLN
37	DJ	37	ASN
37	DJ	51	GLN
37	DJ	86	GLN
37	DJ	97	GLN
37	DJ	106	GLN
38	DK	82	HIS
39	DL	3	GLN
39	DL	89	ASN
39	DL	124	GLN
40	DM	13	HIS
40	DM	56	HIS
41	DN	93	GLN
41	DN	99	GLN
41	DN	104	GLN
41	DN	116	HIS
41	DN	117	ASN
42	DO	8	ASN
42	DO	49	ASN
42	DO	75	HIS
42	DO	80	HIS
43	DP	101	GLN
44	DQ	49	HIS
45	DR	37	ASN
45	DR	46	HIS
45	DR	62	GLN

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Mol	Chain	Res	Type
47	DT	26	GLN
48	DU	63	GLN
49	DV	47	HIS
49	DV	56	GLN
49	DV	83	HIS
50	DW	9	ASN
50	DW	16	HIS
50	DW	42	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	2911/2912 (99%)	701 (24%)	52 (1%)
1	BA	2908/2912 (99%)	714 (24%)	53 (1%)
2	AB	121/122 (99%)	29 (23%)	0
2	BB	121/122 (99%)	29 (23%)	0
31	CA	1506/1506 (100%)	346 (22%)	35 (2%)
31	DA	1505/1506 (99%)	355 (23%)	49 (3%)
52	CB	86/87 (98%)	37 (43%)	4 (4%)
52	DB	86/87 (98%)	33 (38%)	3 (3%)
53	CC	77/77 (100%)	17 (22%)	4 (5%)
53	CD	76/77 (98%)	27 (35%)	1 (1%)
53	DC	77/77 (100%)	17 (22%)	4 (5%)
53	DD	76/77 (98%)	26 (34%)	1 (1%)
54	C1	9/10 (90%)	2 (22%)	0
54	D1	9/10 (90%)	2 (22%)	0
All	All	9568/9582 (99%)	2335 (24%)	206 (2%)

All (2335) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	2	G
1	AA	5	A
1	AA	10	G
1	AA	34	C
1	AA	35	G
1	AA	46	C
1	AA	51	G
1	AA	61	G
1	AA	63	U
1	AA	71	A

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Mol	Chain	Res	Type
1	AA	74	A
1	AA	75	G
1	AA	85	G
1	AA	95	G
1	AA	99	U
1	AA	101	G
1	AA	118	A
1	AA	119	A
1	AA	120	U
1	AA	123	G
1	AA	131	G
1	AA	155	C
1	AA	164	U
1	AA	165	U
1	AA	181	A
1	AA	196	A
1	AA	197	A
1	AA	199	A
1	AA	206	U
1	AA	214	G
1	AA	215	G
1	AA	216	A
1	AA	221	A
1	AA	222	A
1	AA	223	A
1	AA	227	A
1	AA	228	A
1	AA	229	A
1	AA	230	U
1	AA	233	A
1	AA	248	G
1	AA	250	G
1	AA	252	G
1	AA	269	U
1	AA	270(I)	G
1	AA	270(K)	C
1	AA	270(L)	U
1	AA	270(M)	U
1	AA	270(N)	G
1	AA	270(O)	U
1	AA	270(P)	C
1	AA	271(C)	U

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Mol	Chain	Res	Type
1	AA	271	G
1	AA	274	G
1	AA	275	G
1	AA	278	A
1	AA	279	C
1	AA	299	A
1	AA	303	U
1	AA	311	A
1	AA	315	G
1	AA	323	G
1	AA	324	A
1	AA	326	G
1	AA	329	G
1	AA	330	A
1	AA	332	A
1	AA	334	C
1	AA	337	C
1	AA	352	G
1	AA	357	A
1	AA	360	G
1	AA	363	G
1	AA	363(E)	U
1	AA	364	C
1	AA	372	G
1	AA	386	G
1	AA	388	G
1	AA	396	G
1	AA	405	U
1	AA	407	G
1	AA	411	G
1	AA	412	A
1	AA	418	G
1	AA	428	A
1	AA	444	C
1	AA	448	U
1	AA	455	C
1	AA	457	A
1	AA	470	A
1	AA	471	A
1	AA	472	A
1	AA	479	A
1	AA	481	G

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Mol	Chain	Res	Type
1	AA	482	A
1	AA	484	C
1	AA	491	G
1	AA	505	A
1	AA	508	G
1	AA	509	C
1	AA	528	A
1	AA	529	A
1	AA	530	G
1	AA	531	C
1	AA	532	A
1	AA	533	G
1	AA	537	C
1	AA	539	G
1	AA	540	G
1	AA	546	C
1	AA	549	G
1	AA	550	G
1	AA	556	G
1	AA	563	G
1	AA	564	C
1	AA	573	G
1	AA	575	A
1	AA	586	A
1	AA	587	C
1	AA	588	U
1	AA	593	G
1	AA	603	A
1	AA	607	U
1	AA	609(A)	G
1	AA	614	U
1	AA	617	G
1	AA	622	G
1	AA	627	A
1	AA	637	A
1	AA	640	C
1	AA	644	A
1	AA	645	C
1	AA	646	A
1	AA	647	G
1	AA	648	G
1	AA	649	G

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Mol	Chain	Res	Type
1	AA	652	C
1	AA	654(A)	A
1	AA	654(G)	C
1	AA	654(I)	C
1	AA	654(J)	A
1	AA	654(K)	C
1	AA	654(L)	G
1	AA	654(M)	C
1	AA	654(N)	G
1	AA	654(P)	G
1	AA	654(T)	A
1	AA	676	A
1	AA	686	G
1	AA	702	G
1	AA	708	C
1	AA	709	U
1	AA	717	G
1	AA	730	C
1	AA	739	G
1	AA	740	U
1	AA	745	G
1	AA	752	A
1	AA	753	C
1	AA	764	A
1	AA	765	G
1	AA	776	G
1	AA	782	A
1	AA	784	A
1	AA	785	G
1	AA	789	A
1	AA	790	C
1	AA	791	C
1	AA	792	G
1	AA	805	G
1	AA	808	G
1	AA	812	C
1	AA	819	A
1	AA	823	G
1	AA	824	A
1	AA	827	U
1	AA	828	U
1	AA	831	G

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Mol	Chain	Res	Type
1	AA	845	G
1	AA	857	C
1	AA	859	G
1	AA	866	A
1	AA	878	A
1	AA	879	G
1	AA	880	G
1	AA	881	G
1	AA	882	G
1	AA	883	G
1	AA	884	C
1	AA	885	C
1	AA	886	C
1	AA	887	A
1	AA	888	C
1	AA	890	A
1	AA	893	C
1	AA	894	C
1	AA	895	U
1	AA	896	A
1	AA	897	C
1	AA	898	C
1	AA	899	A
1	AA	900	A
1	AA	901	A
1	AA	902	C
1	AA	906	G
1	AA	910	A
1	AA	914	C
1	AA	917	A
1	AA	918	A
1	AA	925	C
1	AA	926	A
1	AA	932	G
1	AA	938	G
1	AA	941	A
1	AA	946	G
1	AA	953	A
1	AA	961	C
1	AA	968	G
1	AA	974	G
1	AA	974(A)	C

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Mol	Chain	Res	Type
1	AA	975	G
1	AA	983	A
1	AA	990	A
1	AA	996	A
1	AA	999	U
1	AA	1005	C
1	AA	1010	A
1	AA	1011	G
1	AA	1012	U
1	AA	1013	C
1	AA	1015	G
1	AA	1016	G
1	AA	1022	G
1	AA	1023	U
1	AA	1025	G
1	AA	1026	U
1	AA	1027	A
1	AA	1033	U
1	AA	1037	G
1	AA	1045	A
1	AA	1046	A
1	AA	1047	G
1	AA	1050	A
1	AA	1054	A
1	AA	1056	G
1	AA	1057	A
1	AA	1060	U
1	AA	1061	U
1	AA	1062	G
1	AA	1066	U
1	AA	1067	A
1	AA	1068	G
1	AA	1070	A
1	AA	1071	G
1	AA	1073	A
1	AA	1075	C
1	AA	1076	C
1	AA	1077	A
1	AA	1078	U
1	AA	1079	C
1	AA	1080	A
1	AA	1083	U

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Mol	Chain	Res	Type
1	AA	1084	A
1	AA	1085	A
1	AA	1086	A
1	AA	1087	G
1	AA	1088	A
1	AA	1089	G
1	AA	1090	U
1	AA	1092	C
1	AA	1095	A
1	AA	1096	A
1	AA	1097	U
1	AA	1104	C
1	AA	1105	U
1	AA	1107	G
1	AA	1110	G
1	AA	1111	A
1	AA	1112	G
1	AA	1117	G
1	AA	1122	G
1	AA	1129	A
1	AA	1131	G
1	AA	1132	A
1	AA	1135	C
1	AA	1136	G
1	AA	1139	G
1	AA	1142	U
1	AA	1142(A)	A
1	AA	1143	A
1	AA	1148	A
1	AA	1149	G
1	AA	1151	G
1	AA	1154	G
1	AA	1155	A
1	AA	1171	G
1	AA	1176	G
1	AA	1178	C
1	AA	1179	C
1	AA	1180	C
1	AA	1192	G
1	AA	1195	G
1	AA	1197	G
1	AA	1204	A

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Mol	Chain	Res	Type
1	AA	1205	U
1	AA	1210	A
1	AA	1211	U
1	AA	1218	C
1	AA	1220	A
1	AA	1227	A
1	AA	1241	A
1	AA	1242	A
1	AA	1244	G
1	AA	1253	A
1	AA	1256	G
1	AA	1265	A
1	AA	1269	A
1	AA	1271	G
1	AA	1272	A
1	AA	1273	U
1	AA	1287	A
1	AA	1298	C
1	AA	1300	U
1	AA	1301	A
1	AA	1303	G
1	AA	1310	G
1	AA	1313	U
1	AA	1314	C
1	AA	1329	U
1	AA	1332	G
1	AA	1338	G
1	AA	1344	G
1	AA	1345	C
1	AA	1349	A
1	AA	1352	U
1	AA	1359	A
1	AA	1360	A
1	AA	1365	A
1	AA	1368	G
1	AA	1380	G
1	AA	1384	A
1	AA	1385	G
1	AA	1386	C
1	AA	1389	G
1	AA	1390	U
1	AA	1391	U

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Mol	Chain	Res	Type
1	AA	1404	C
1	AA	1412	A
1	AA	1416	G
1	AA	1417	C
1	AA	1420	U
1	AA	1421	G
1	AA	1425	G
1	AA	1427	A
1	AA	1428	C
1	AA	1437	C
1	AA	1444(A)	A
1	AA	1449	A
1	AA	1449(A)	G
1	AA	1453	A
1	AA	1454	U
1	AA	1455	G
1	AA	1458	C
1	AA	1459	G
1	AA	1460	A
1	AA	1461	G
1	AA	1467	C
1	AA	1470	G
1	AA	1471	A
1	AA	1482	U
1	AA	1483	G
1	AA	1493	C
1	AA	1495	A
1	AA	1497	U
1	AA	1506	C
1	AA	1507	A
1	AA	1508	A
1	AA	1509	C
1	AA	1510	A
1	AA	1511	A
1	AA	1514	U
1	AA	1515	C
1	AA	1520	U
1	AA	1522	G
1	AA	1526	G
1	AA	1533	C
1	AA	1534	G
1	AA	1535	U

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Mol	Chain	Res	Type
1	AA	1536	A
1	AA	1537	C
1	AA	1540	G
1	AA	1543	A
1	AA	1544	C
1	AA	1545	A
1	AA	1547	C
1	AA	1554	A
1	AA	1558	A
1	AA	1559	G
1	AA	1566	A
1	AA	1569	A
1	AA	1578	U
1	AA	1579	A
1	AA	1582	C
1	AA	1585	C
1	AA	1586	A
1	AA	1597	A
1	AA	1598	C
1	AA	1606	G
1	AA	1608	A
1	AA	1609	A
1	AA	1610	A
1	AA	1617	C
1	AA	1618	A
1	AA	1635	G
1	AA	1639	U
1	AA	1640	C
1	AA	1641	A
1	AA	1648	C
1	AA	1651	G
1	AA	1654	A
1	AA	1666	G
1	AA	1674	G
1	AA	1694	C
1	AA	1695	G
1	AA	1700	A
1	AA	1701	A
1	AA	1717	G
1	AA	1727	U
1	AA	1728	G
1	AA	1729	A

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Mol	Chain	Res	Type
1	AA	1730	U
1	AA	1731	G
1	AA	1732	A
1	AA	1734	C
1	AA	1735	C
1	AA	1743	G
1	AA	1750	G
1	AA	1756	G
1	AA	1762	A
1	AA	1763	G
1	AA	1764	G
1	AA	1773	A
1	AA	1780	A
1	AA	1781	C
1	AA	1785	A
1	AA	1787	A
1	AA	1791	A
1	AA	1799	G
1	AA	1800	C
1	AA	1816	G
1	AA	1819	A
1	AA	1820	U
1	AA	1828	G
1	AA	1829	A
1	AA	1835	G
1	AA	1839	G
1	AA	1847	A
1	AA	1858	G
1	AA	1869	G
1	AA	1878	G
1	AA	1882	C
1	AA	1885	A
1	AA	1889	A
1	AA	1900	A
1	AA	1902	C
1	AA	1906	G
1	AA	1914	C
1	AA	1915	U
1	AA	1926	U
1	AA	1929	G
1	AA	1930	G
1	AA	1934	C

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Mol	Chain	Res	Type
1	AA	1937	A
1	AA	1938	A
1	AA	1955	U
1	AA	1956	U
1	AA	1963	U
1	AA	1967	C
1	AA	1969	A
1	AA	1970	A
1	AA	1971	A
1	AA	1972	A
1	AA	1982	C
1	AA	1990	C
1	AA	1993	U
1	AA	2018	G
1	AA	2020	A
1	AA	2023	G
1	AA	2030	A
1	AA	2031	A
1	AA	2032	G
1	AA	2033	A
1	AA	2034	U
1	AA	2036	C
1	AA	2043	C
1	AA	2051	A
1	AA	2055	C
1	AA	2056	G
1	AA	2060	A
1	AA	2061	G
1	AA	2062	A
1	AA	2069	G
1	AA	2099	U
1	AA	2100	G
1	AA	2110	G
1	AA	2111	C
1	AA	2112	G
1	AA	2113	U
1	AA	2114	A
1	AA	2115	G
1	AA	2116	G
1	AA	2118	U
1	AA	2121	G
1	AA	2126	A

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Mol	Chain	Res	Type
1	AA	2128	C
1	AA	2129	C
1	AA	2131	G
1	AA	2132	U
1	AA	2133	G
1	AA	2135	A
1	AA	2136	C
1	AA	2139	C
1	AA	2144	U
1	AA	2146	C
1	AA	2148	G
1	AA	2151	G
1	AA	2157	G
1	AA	2158	A
1	AA	2159	G
1	AA	2165	G
1	AA	2166	G
1	AA	2168	G
1	AA	2169	A
1	AA	2173	A
1	AA	2176	A
1	AA	2181	G
1	AA	2189	U
1	AA	2190	G
1	AA	2191	G
1	AA	2192	G
1	AA	2198	A
1	AA	2205	C
1	AA	2206	C
1	AA	2210	G
1	AA	2211	G
1	AA	2212	A
1	AA	2213	U
1	AA	2215	G
1	AA	2225	A
1	AA	2235	G
1	AA	2238	G
1	AA	2239	G
1	AA	2243	U
1	AA	2264	C
1	AA	2265	U
1	AA	2269	A

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Mol	Chain	Res	Type
1	AA	2273	A
1	AA	2275	C
1	AA	2283	C
1	AA	2286	A
1	AA	2287	A
1	AA	2304	G
1	AA	2307	G
1	AA	2308	G
1	AA	2310	A
1	AA	2319	G
1	AA	2320	A
1	AA	2321	G
1	AA	2325	G
1	AA	2327	A
1	AA	2334	G
1	AA	2336	A
1	AA	2342	C
1	AA	2343	C
1	AA	2346	A
1	AA	2347	C
1	AA	2350	C
1	AA	2364	C
1	AA	2377	A
1	AA	2379	G
1	AA	2383	G
1	AA	2385	C
1	AA	2392	A
1	AA	2393	A
1	AA	2394	C
1	AA	2400	G
1	AA	2402	C
1	AA	2403	C
1	AA	2405	G
1	AA	2406	U
1	AA	2408	U
1	AA	2410	G
1	AA	2422	A
1	AA	2424	C
1	AA	2425	A
1	AA	2428	G
1	AA	2429	G
1	AA	2430	A

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Mol	Chain	Res	Type
1	AA	2434	A
1	AA	2435	A
1	AA	2439	A
1	AA	2440	C
1	AA	2441	C
1	AA	2448	A
1	AA	2468	G
1	AA	2469	A
1	AA	2474	C
1	AA	2475	C
1	AA	2476	A
1	AA	2478	A
1	AA	2480	C
1	AA	2487	G
1	AA	2494	G
1	AA	2495	G
1	AA	2502	G
1	AA	2504	U
1	AA	2505	G
1	AA	2506	U
1	AA	2518	A
1	AA	2520	C
1	AA	2525	G
1	AA	2529	G
1	AA	2531	A
1	AA	2554	U
1	AA	2557	G
1	AA	2566	A
1	AA	2567	G
1	AA	2573	C
1	AA	2574	G
1	AA	2585	U
1	AA	2602	A
1	AA	2609	U
1	AA	2610	C
1	AA	2611	U
1	AA	2612	C
1	AA	2613	U
1	AA	2614	A
1	AA	2615	U
1	AA	2620	C
1	AA	2629	A

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Mol	Chain	Res	Type
1	AA	2630	G
1	AA	2632	A
1	AA	2636	U
1	AA	2641	G
1	AA	2654	A
1	AA	2665	A
1	AA	2666	C
1	AA	2673	G
1	AA	2679	A
1	AA	2681	C
1	AA	2682	U
1	AA	2683	C
1	AA	2689	U
1	AA	2690	C
1	AA	2701	C
1	AA	2702	U
1	AA	2703	C
1	AA	2707	G
1	AA	2712	U
1	AA	2712(A)	A
1	AA	2713	A
1	AA	2714	G
1	AA	2718	G
1	AA	2726	U
1	AA	2733	A
1	AA	2734	A
1	AA	2735	G
1	AA	2752	C
1	AA	2757	A
1	AA	2758	A
1	AA	2764	A
1	AA	2765	A
1	AA	2766	G
1	AA	2769	C
1	AA	2778	A
1	AA	2779	U
1	AA	2789	C
1	AA	2790	A
1	AA	2791	C
1	AA	2794	C
1	AA	2795	G
1	AA	2797	U

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Mol	Chain	Res	Type
1	AA	2799	A
1	AA	2805	G
1	AA	2807	G
1	AA	2808	U
1	AA	2818	G
1	AA	2820	A
1	AA	2821	A
1	AA	2823	A
1	AA	2830	G
1	AA	2833	G
1	AA	2834	G
1	AA	2835	A
1	AA	2849	U
1	AA	2850	A
1	AA	2851	A
1	AA	2872	G
1	AA	2891	G
1	AA	2892	A
1	AA	2894	G
2	AB	1	U
2	AB	7	G
2	AB	8	U
2	AB	10	C
2	AB	11	C
2	AB	12	C
2	AB	13	A
2	AB	15	A
2	AB	32	C
2	AB	35	U
2	AB	38	C
2	AB	41	U
2	AB	42	C
2	AB	45	A
2	AB	52	A
2	AB	53	A
2	AB	56	G
2	AB	65	C
2	AB	73	A
2	AB	74	U
2	AB	81	G
2	AB	82	G
2	AB	85	G

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Mol	Chain	Res	Type
2	AB	89	G
2	AB	95	U
2	AB	96	G
2	AB	105	G
2	AB	107	U
2	AB	109	G
1	BA	5	A
1	BA	34	C
1	BA	36	G
1	BA	41	C
1	BA	46	C
1	BA	49	A
1	BA	50	U
1	BA	55	G
1	BA	69	C
1	BA	70	G
1	BA	71	A
1	BA	72	U
1	BA	74	A
1	BA	75	G
1	BA	83	G
1	BA	90	U
1	BA	91	A
1	BA	93	C
1	BA	95	G
1	BA	102	G
1	BA	118	A
1	BA	120	U
1	BA	129	C
1	BA	131	G
1	BA	138	G
1	BA	148	C
1	BA	154	G
1	BA	155	C
1	BA	161	U
1	BA	162	U
1	BA	171	G
1	BA	172	C
1	BA	173	G
1	BA	174	C
1	BA	175	G
1	BA	196	A

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Mol	Chain	Res	Type
1	BA	197	A
1	BA	199	A
1	BA	205	G
1	BA	206	U
1	BA	214	G
1	BA	215	G
1	BA	216	A
1	BA	221	A
1	BA	222	A
1	BA	225	A
1	BA	228	A
1	BA	229	A
1	BA	233	A
1	BA	240	G
1	BA	244	A
1	BA	248	G
1	BA	249	C
1	BA	250	G
1	BA	252	G
1	BA	270(K)	C
1	BA	270(L)	U
1	BA	270(M)	U
1	BA	270(N)	G
1	BA	270(O)	U
1	BA	271(C)	U
1	BA	271	G
1	BA	273(C)	C
1	BA	273(D)	C
1	BA	274	G
1	BA	275	G
1	BA	276	A
1	BA	277	C
1	BA	278	A
1	BA	279	C
1	BA	287	C
1	BA	289	A
1	BA	298	G
1	BA	308	G
1	BA	311	A
1	BA	329	G
1	BA	330	A
1	BA	331	A

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Mol	Chain	Res	Type
1	BA	342	G
1	BA	352	G
1	BA	354	G
1	BA	356	G
1	BA	363	G
1	BA	363(E)	U
1	BA	363(F)	A
1	BA	364	C
1	BA	372	G
1	BA	376	C
1	BA	386	G
1	BA	395	U
1	BA	399	G
1	BA	405	U
1	BA	406	G
1	BA	411	G
1	BA	412	A
1	BA	414	C
1	BA	428	A
1	BA	443	A
1	BA	444	C
1	BA	448	U
1	BA	454	A
1	BA	455	C
1	BA	457	A
1	BA	459	U
1	BA	460	A
1	BA	470	A
1	BA	481	G
1	BA	497	A
1	BA	498	G
1	BA	501	A
1	BA	504	U
1	BA	505	A
1	BA	508	G
1	BA	509	C
1	BA	512	G
1	BA	529	A
1	BA	530	G
1	BA	531	C
1	BA	532	A
1	BA	533	G

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Mol	Chain	Res	Type
1	BA	543	C
1	BA	547	A
1	BA	550	G
1	BA	556	G
1	BA	563	G
1	BA	567	A
1	BA	568	U
1	BA	573	G
1	BA	575	A
1	BA	588	U
1	BA	593	G
1	BA	598	G
1	BA	603	A
1	BA	604	G
1	BA	607	U
1	BA	609(A)	G
1	BA	614	U
1	BA	617	G
1	BA	618	G
1	BA	621	A
1	BA	622	G
1	BA	627	A
1	BA	637	A
1	BA	644	A
1	BA	645	C
1	BA	646	A
1	BA	647	G
1	BA	650	C
1	BA	651	G
1	BA	654	A
1	BA	654(A)	A
1	BA	654(G)	C
1	BA	654(I)	C
1	BA	654(J)	A
1	BA	654(K)	C
1	BA	654(L)	G
1	BA	654(N)	G
1	BA	654(R)	C
1	BA	654(T)	A
1	BA	668	G
1	BA	669	G
1	BA	670	A

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Mol	Chain	Res	Type
1	BA	673	C
1	BA	676	A
1	BA	686	G
1	BA	706	A
1	BA	707	G
1	BA	708	C
1	BA	709	U
1	BA	717	G
1	BA	722	A
1	BA	730	C
1	BA	752	A
1	BA	753	C
1	BA	765	G
1	BA	776	G
1	BA	777	A
1	BA	779	U
1	BA	782	A
1	BA	784	A
1	BA	785	G
1	BA	789	A
1	BA	792	G
1	BA	793	A
1	BA	805	G
1	BA	806	C
1	BA	808	G
1	BA	812	C
1	BA	819	A
1	BA	827	U
1	BA	828	U
1	BA	831	G
1	BA	832	G
1	BA	845	G
1	BA	846	C
1	BA	848	G
1	BA	856	C
1	BA	857	C
1	BA	859	G
1	BA	869	G
1	BA	870	A
1	BA	878	A
1	BA	881	G
1	BA	882	G

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Mol	Chain	Res	Type
1	BA	884	C
1	BA	887	A
1	BA	888	C
1	BA	889	C
1	BA	890	A
1	BA	894	C
1	BA	896	A
1	BA	897	C
1	BA	899	A
1	BA	900	A
1	BA	901	A
1	BA	903	C
1	BA	906	G
1	BA	907	U
1	BA	910	A
1	BA	911	A
1	BA	914	C
1	BA	915	C
1	BA	917	A
1	BA	926	A
1	BA	932	G
1	BA	933	A
1	BA	934	G
1	BA	938	G
1	BA	941	A
1	BA	946	G
1	BA	959	A
1	BA	960	A
1	BA	961	C
1	BA	974	G
1	BA	980	A
1	BA	983	A
1	BA	990	A
1	BA	991	C
1	BA	996	A
1	BA	1011	G
1	BA	1012	U
1	BA	1013	C
1	BA	1016	G
1	BA	1020	A
1	BA	1022	G
1	BA	1023	U

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Mol	Chain	Res	Type
1	BA	1024	G
1	BA	1025	G
1	BA	1026	U
1	BA	1037	G
1	BA	1039	G
1	BA	1044	G
1	BA	1045	A
1	BA	1048	A
1	BA	1054	A
1	BA	1059	G
1	BA	1061	U
1	BA	1062	G
1	BA	1066	U
1	BA	1067	A
1	BA	1070	A
1	BA	1071	G
1	BA	1072	C
1	BA	1073	A
1	BA	1076	C
1	BA	1085	A
1	BA	1086	A
1	BA	1087	G
1	BA	1088	A
1	BA	1090	U
1	BA	1093	G
1	BA	1095	A
1	BA	1096	A
1	BA	1098	A
1	BA	1099	G
1	BA	1100	C
1	BA	1105	U
1	BA	1108	U
1	BA	1111	A
1	BA	1112	G
1	BA	1115	G
1	BA	1122	G
1	BA	1128	A
1	BA	1129	A
1	BA	1130	U
1	BA	1135	C
1	BA	1136	G
1	BA	1139	G

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Mol	Chain	Res	Type
1	BA	1142(A)	A
1	BA	1143	A
1	BA	1155	A
1	BA	1160	G
1	BA	1170	G
1	BA	1171	G
1	BA	1173	G
1	BA	1174	A
1	BA	1175	U
1	BA	1176	G
1	BA	1177	A
1	BA	1178	C
1	BA	1183	G
1	BA	1204	A
1	BA	1205	U
1	BA	1210	A
1	BA	1211	U
1	BA	1212	G
1	BA	1220	A
1	BA	1237	A
1	BA	1245	G
1	BA	1247	A
1	BA	1248	G
1	BA	1250	G
1	BA	1253	A
1	BA	1255	U
1	BA	1256	G
1	BA	1271	G
1	BA	1272	A
1	BA	1273	U
1	BA	1280	G
1	BA	1284	A
1	BA	1286	A
1	BA	1287	A
1	BA	1298	C
1	BA	1300	U
1	BA	1301	A
1	BA	1307	A
1	BA	1313	U
1	BA	1314	C
1	BA	1317	A
1	BA	1320	C

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Mol	Chain	Res	Type
1	BA	1325	G
1	BA	1329	U
1	BA	1332	G
1	BA	1345	C
1	BA	1349	A
1	BA	1352	U
1	BA	1359	A
1	BA	1360	A
1	BA	1365	A
1	BA	1368	G
1	BA	1379	A
1	BA	1384	A
1	BA	1385	G
1	BA	1386	C
1	BA	1389	G
1	BA	1391	U
1	BA	1405	U
1	BA	1406	U
1	BA	1407	C
1	BA	1415	U
1	BA	1416	G
1	BA	1417	C
1	BA	1419	A
1	BA	1420	U
1	BA	1421	G
1	BA	1427	A
1	BA	1428	C
1	BA	1437	C
1	BA	1443	G
1	BA	1444(A)	A
1	BA	1445	C
1	BA	1449	A
1	BA	1449(A)	G
1	BA	1451	C
1	BA	1458	C
1	BA	1460	A
1	BA	1461	G
1	BA	1467	C
1	BA	1471	A
1	BA	1475	G
1	BA	1482	U
1	BA	1483	G

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Mol	Chain	Res	Type
1	BA	1488	G
1	BA	1490	A
1	BA	1493	C
1	BA	1506	C
1	BA	1507	A
1	BA	1508	A
1	BA	1509	C
1	BA	1510	A
1	BA	1513	C
1	BA	1515	C
1	BA	1522	G
1	BA	1526	G
1	BA	1527	G
1	BA	1534	G
1	BA	1535	U
1	BA	1536	A
1	BA	1537	C
1	BA	1538	G
1	BA	1543	A
1	BA	1544	C
1	BA	1547	C
1	BA	1554	A
1	BA	1558	A
1	BA	1559	G
1	BA	1560	G
1	BA	1566	A
1	BA	1569	A
1	BA	1578	U
1	BA	1580	A
1	BA	1582	C
1	BA	1586	A
1	BA	1588	C
1	BA	1589	C
1	BA	1596	A
1	BA	1598	C
1	BA	1608	A
1	BA	1609	A
1	BA	1610	A
1	BA	1616	A
1	BA	1619	G
1	BA	1625	C
1	BA	1635	G

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Mol	Chain	Res	Type
1	BA	1639	U
1	BA	1648	C
1	BA	1654	A
1	BA	1674	G
1	BA	1678	G
1	BA	1688	U
1	BA	1696	G
1	BA	1700	A
1	BA	1701	A
1	BA	1718	G
1	BA	1725	G
1	BA	1726	G
1	BA	1728	G
1	BA	1729	A
1	BA	1741	C
1	BA	1743	G
1	BA	1756	G
1	BA	1758	G
1	BA	1761	C
1	BA	1762	A
1	BA	1763	G
1	BA	1764	G
1	BA	1773	A
1	BA	1780	A
1	BA	1782	C
1	BA	1787	A
1	BA	1791	A
1	BA	1800	C
1	BA	1801	G
1	BA	1802	A
1	BA	1812	A
1	BA	1816	G
1	BA	1820	U
1	BA	1827	C
1	BA	1828	G
1	BA	1829	A
1	BA	1835	G
1	BA	1839	G
1	BA	1847	A
1	BA	1858	G
1	BA	1863	G
1	BA	1864	U

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Mol	Chain	Res	Type
1	BA	1869	G
1	BA	1878	G
1	BA	1883	G
1	BA	1888	G
1	BA	1889	A
1	BA	1896	G
1	BA	1900	A
1	BA	1906	G
1	BA	1909	C
1	BA	1913	A
1	BA	1917	U
1	BA	1929	G
1	BA	1930	G
1	BA	1936	A
1	BA	1938	A
1	BA	1955	U
1	BA	1956	U
1	BA	1963	U
1	BA	1964	G
1	BA	1967	C
1	BA	1970	A
1	BA	1971	A
1	BA	1972	A
1	BA	1981	A
1	BA	1993	U
1	BA	1994	C
1	BA	2019	A
1	BA	2023	G
1	BA	2031	A
1	BA	2032	G
1	BA	2033	A
1	BA	2036	C
1	BA	2037	G
1	BA	2039	C
1	BA	2043	C
1	BA	2055	C
1	BA	2056	G
1	BA	2060	A
1	BA	2061	G
1	BA	2062	A
1	BA	2063	C
1	BA	2067	G

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Mol	Chain	Res	Type
1	BA	2069	G
1	BA	2070	G
1	BA	2082	A
1	BA	2089	U
1	BA	2099	U
1	BA	2100	G
1	BA	2107	C
1	BA	2108	C
1	BA	2111	C
1	BA	2113	U
1	BA	2114	A
1	BA	2115	G
1	BA	2116	G
1	BA	2118	U
1	BA	2119	A
1	BA	2120	G
1	BA	2123	G
1	BA	2126	A
1	BA	2127	G
1	BA	2128	C
1	BA	2129	C
1	BA	2130	U
1	BA	2131	G
1	BA	2132	U
1	BA	2133	G
1	BA	2135	A
1	BA	2136	C
1	BA	2137	C
1	BA	2139	C
1	BA	2141	G
1	BA	2146	C
1	BA	2147	G
1	BA	2148	G
1	BA	2152	G
1	BA	2158	A
1	BA	2164	C
1	BA	2166	G
1	BA	2168	G
1	BA	2169	A
1	BA	2170	A
1	BA	2171	A
1	BA	2172	U

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Mol	Chain	Res	Type
1	BA	2173	A
1	BA	2174	C
1	BA	2182	G
1	BA	2189	U
1	BA	2190	G
1	BA	2192	G
1	BA	2193	G
1	BA	2198	A
1	BA	2210	G
1	BA	2211	G
1	BA	2212	A
1	BA	2213	U
1	BA	2215	G
1	BA	2225	A
1	BA	2226	C
1	BA	2232	U
1	BA	2235	G
1	BA	2238	G
1	BA	2239	G
1	BA	2244	U
1	BA	2245	U
1	BA	2246	G
1	BA	2272	U
1	BA	2273	A
1	BA	2275	C
1	BA	2276	G
1	BA	2278	A
1	BA	2282	G
1	BA	2283	C
1	BA	2287	A
1	BA	2288	A
1	BA	2291	U
1	BA	2297	C
1	BA	2298	A
1	BA	2305	A
1	BA	2307	G
1	BA	2308	G
1	BA	2309	A
1	BA	2311	A
1	BA	2312	U
1	BA	2315	G
1	BA	2316	C

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Mol	Chain	Res	Type
1	BA	2319	G
1	BA	2325	G
1	BA	2327	A
1	BA	2333	A
1	BA	2334	G
1	BA	2335	A
1	BA	2343	C
1	BA	2346	A
1	BA	2347	C
1	BA	2350	C
1	BA	2383	G
1	BA	2385	C
1	BA	2387	U
1	BA	2391	G
1	BA	2392	A
1	BA	2394	C
1	BA	2400	G
1	BA	2402	C
1	BA	2406	U
1	BA	2407	G
1	BA	2410	G
1	BA	2414	G
1	BA	2422	A
1	BA	2423	U
1	BA	2425	A
1	BA	2428	G
1	BA	2429	G
1	BA	2430	A
1	BA	2431	U
1	BA	2435	A
1	BA	2439	A
1	BA	2440	C
1	BA	2441	C
1	BA	2446	G
1	BA	2447	G
1	BA	2448	A
1	BA	2469	A
1	BA	2470	G
1	BA	2476	A
1	BA	2482	G
1	BA	2484	G
1	BA	2497	A

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Mol	Chain	Res	Type
1	BA	2501	C
1	BA	2502	G
1	BA	2505	G
1	BA	2506	U
1	BA	2513	G
1	BA	2518	A
1	BA	2523	G
1	BA	2525	G
1	BA	2527	C
1	BA	2529	G
1	BA	2532	G
1	BA	2543	G
1	BA	2552	U
1	BA	2553	G
1	BA	2554	U
1	BA	2566	A
1	BA	2567	G
1	BA	2569	G
1	BA	2572	A
1	BA	2573	C
1	BA	2575	C
1	BA	2584	U
1	BA	2585	U
1	BA	2602	A
1	BA	2603	G
1	BA	2608	G
1	BA	2609	U
1	BA	2611	U
1	BA	2612	C
1	BA	2615	U
1	BA	2621	A
1	BA	2629	A
1	BA	2630	G
1	BA	2655	G
1	BA	2665	A
1	BA	2667	C
1	BA	2673	G
1	BA	2689	U
1	BA	2690	C
1	BA	2707	G
1	BA	2712(A)	A
1	BA	2713	A

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Mol	Chain	Res	Type
1	BA	2726	U
1	BA	2732	G
1	BA	2733	A
1	BA	2739	U
1	BA	2744	G
1	BA	2748	A
1	BA	2750	A
1	BA	2751	G
1	BA	2752	C
1	BA	2754	U
1	BA	2758	A
1	BA	2760	C
1	BA	2761	G
1	BA	2762	G
1	BA	2764	A
1	BA	2765	A
1	BA	2766	G
1	BA	2769	C
1	BA	2777	G
1	BA	2778	A
1	BA	2779	U
1	BA	2789	C
1	BA	2790	A
1	BA	2791	C
1	BA	2794	C
1	BA	2797	U
1	BA	2798	C
1	BA	2799	A
1	BA	2803	C
1	BA	2808	U
1	BA	2811	G
1	BA	2813	A
1	BA	2818	G
1	BA	2820	A
1	BA	2821	A
1	BA	2833	G
1	BA	2834	G
1	BA	2835	A
1	BA	2839	G
1	BA	2845	G
1	BA	2849	U
1	BA	2860	A

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Mol	Chain	Res	Type
1	BA	2872	G
1	BA	2873	A
1	BA	2880	C
1	BA	2894	G
1	BA	2896	C
1	BA	2897	U
2	BB	0	A
2	BB	3	C
2	BB	8	U
2	BB	9	G
2	BB	13	A
2	BB	15	A
2	BB	16	G
2	BB	25	A
2	BB	26	A
2	BB	28	C
2	BB	30	C
2	BB	32	C
2	BB	40	U
2	BB	41	U
2	BB	42	C
2	BB	44	G
2	BB	45	A
2	BB	46	A
2	BB	73	A
2	BB	75	G
2	BB	81	G
2	BB	82	G
2	BB	88	C
2	BB	89	G
2	BB	89(A)	A
2	BB	90	C
2	BB	109	G
2	BB	112	G
2	BB	113	C
31	CA	6	G
31	CA	7	G
31	CA	8	A
31	CA	9	G
31	CA	18	C
31	CA	32	A
31	CA	33	A

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Mol	Chain	Res	Type
31	CA	39	G
31	CA	48	C
31	CA	49	U
31	CA	50	A
31	CA	51	A
31	CA	54	C
31	CA	61	G
31	CA	65	U
31	CA	66	G
31	CA	67	C
31	CA	76	G
31	CA	79	G
31	CA	80	G
31	CA	81	G
31	CA	84	U
31	CA	85	U
31	CA	86	U
31	CA	87	A
31	CA	88	C
31	CA	89	U
31	CA	90	C
31	CA	91	C
31	CA	92	G
31	CA	95	G
31	CA	101	A
31	CA	116	A
31	CA	120	A
31	CA	121	C
31	CA	123	C
31	CA	131	C
31	CA	144	G
31	CA	147	G
31	CA	154	C
31	CA	163	C
31	CA	168	G
31	CA	172	A
31	CA	173	U
31	CA	174	C
31	CA	182	U
31	CA	185	A
31	CA	189	U
31	CA	190	G

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Mol	Chain	Res	Type
31	CA	191(A)	G
31	CA	195	A
31	CA	197	A
31	CA	199	G
31	CA	201	C
31	CA	208	U
31	CA	209	U
31	CA	210	U
31	CA	216	G
31	CA	226	G
31	CA	243	A
31	CA	244	U
31	CA	245	C
31	CA	247	G
31	CA	251	G
31	CA	262	A
31	CA	266	G
31	CA	267	C
31	CA	270	A
31	CA	281	G
31	CA	289	G
31	CA	321	A
31	CA	328	C
31	CA	330	C
31	CA	332	G
31	CA	342	C
31	CA	344	A
31	CA	345	C
31	CA	346	G
31	CA	352	C
31	CA	353	A
31	CA	354	G
31	CA	356	A
31	CA	367	U
31	CA	372	C
31	CA	390	C
31	CA	397	A
31	CA	398	C
31	CA	412	A
31	CA	413	G
31	CA	419	C
31	CA	421	U

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Mol	Chain	Res	Type
31	CA	422	C
31	CA	424	G
31	CA	429	U
31	CA	430	A
31	CA	439	A
31	CA	440	A
31	CA	442	C
31	CA	452	A
31	CA	465	A
31	CA	466	C
31	CA	467	G
31	CA	485	G
31	CA	496	A
31	CA	497	U
31	CA	505	G
31	CA	509	A
31	CA	510	A
31	CA	511	C
31	CA	518	C
31	CA	521	G
31	CA	524	G
31	CA	527	G
31	CA	531	U
31	CA	532	A
31	CA	533	A
31	CA	536	C
31	CA	547	A
31	CA	559	A
31	CA	561	U
31	CA	568	G
31	CA	572	A
31	CA	573	A
31	CA	576	G
31	CA	577	G
31	CA	579	G
31	CA	592	G
31	CA	596	C
31	CA	606	G
31	CA	607	A
31	CA	608	A
31	CA	616	G
31	CA	619	U

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Mol	Chain	Res	Type
31	CA	622	A
31	CA	623	C
31	CA	630	G
31	CA	631	G
31	CA	632	A
31	CA	633	G
31	CA	639	G
31	CA	650	G
31	CA	653	A
31	CA	665	A
31	CA	666	G
31	CA	687	A
31	CA	688	G
31	CA	701	C
31	CA	704	A
31	CA	723	U
31	CA	724	G
31	CA	748	C
31	CA	749	C
31	CA	751	U
31	CA	752	G
31	CA	755	G
31	CA	760	G
31	CA	766	A
31	CA	773	G
31	CA	774	G
31	CA	777	A
31	CA	793	U
31	CA	794	A
31	CA	813	U
31	CA	815	A
31	CA	817	C
31	CA	820	U
31	CA	821	G
31	CA	827	U
31	CA	828	A
31	CA	841	U
31	CA	842	C
31	CA	843	U
31	CA	848	C
31	CA	857	C
31	CA	859	A

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Mol	Chain	Res	Type
31	CA	864	A
31	CA	870	U
31	CA	871	U
31	CA	872	A
31	CA	876	G
31	CA	884	U
31	CA	891	U
31	CA	902	G
31	CA	914	A
31	CA	926	G
31	CA	927	G
31	CA	934	C
31	CA	935	A
31	CA	936	C
31	CA	940	C
31	CA	942	G
31	CA	960	U
31	CA	968	A
31	CA	969	A
31	CA	971	G
31	CA	972	C
31	CA	974	A
31	CA	975	A
31	CA	976	G
31	CA	977	A
31	CA	982	U
31	CA	983	A
31	CA	991	U
31	CA	992	U
31	CA	993	G
31	CA	995	C
31	CA	1002	G
31	CA	1003	G
31	CA	1004	A
31	CA	1009	G
31	CA	1020	U
31	CA	1021	G
31	CA	1024	G
31	CA	1025	U
31	CA	1026	G
31	CA	1028	C
31	CA	1029	G

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Mol	Chain	Res	Type
31	CA	1032(A)	G
31	CA	1036	G
31	CA	1038	C
31	CA	1039	C
31	CA	1040	U
31	CA	1042	G
31	CA	1053	G
31	CA	1054	C
31	CA	1055	A
31	CA	1065	U
31	CA	1066	C
31	CA	1081	G
31	CA	1094	G
31	CA	1095	U
31	CA	1101	A
31	CA	1103	C
31	CA	1123	A
31	CA	1124	G
31	CA	1125	U
31	CA	1126	U
31	CA	1127	G
31	CA	1129	C
31	CA	1131	G
31	CA	1132	C
31	CA	1133	G
31	CA	1136	U
31	CA	1137	C
31	CA	1138	G
31	CA	1139	G
31	CA	1140	C
31	CA	1145	C
31	CA	1146	A
31	CA	1147	C
31	CA	1151	A
31	CA	1152	A
31	CA	1157	A
31	CA	1158	C
31	CA	1159	U
31	CA	1160	G
31	CA	1170	A
31	CA	1177	G
31	CA	1178	G

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Mol	Chain	Res	Type
31	CA	1179	A
31	CA	1181	G
31	CA	1182	G
31	CA	1183	A
31	CA	1186	G
31	CA	1187	G
31	CA	1193	G
31	CA	1194	U
31	CA	1195	C
31	CA	1196	U
31	CA	1197	G
31	CA	1201	A
31	CA	1202	G
31	CA	1212	U
31	CA	1213	A
31	CA	1225	A
31	CA	1226	C
31	CA	1227	A
31	CA	1238	A
31	CA	1240	U
31	CA	1241	G
31	CA	1256	A
31	CA	1257	U
31	CA	1258	G
31	CA	1273	G
31	CA	1275	A
31	CA	1278	U
31	CA	1279	A
31	CA	1280	A
31	CA	1281	U
31	CA	1282	C
31	CA	1286	A
31	CA	1287	A
31	CA	1288	A
31	CA	1290	G
31	CA	1291	G
31	CA	1300	G
31	CA	1301	U
31	CA	1302	U
31	CA	1303	C
31	CA	1305	G
31	CA	1313	U

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Mol	Chain	Res	Type
31	CA	1317	C
31	CA	1319	A
31	CA	1320	C
31	CA	1322	C
31	CA	1323	G
31	CA	1331	G
31	CA	1336	C
31	CA	1337	G
31	CA	1338	G
31	CA	1346	A
31	CA	1347	G
31	CA	1350	A
31	CA	1353	G
31	CA	1362(A)	C
31	CA	1363	A
31	CA	1370	G
31	CA	1373	G
31	CA	1378	C
31	CA	1397	C
31	CA	1398	A
31	CA	1401	G
31	CA	1404	C
31	CA	1419	G
31	CA	1442	G
31	CA	1443	G
31	CA	1446	A
31	CA	1447	G
31	CA	1450	U
31	CA	1452	C
31	CA	1453	G
31	CA	1454	G
31	CA	1469	G
31	CA	1486	G
31	CA	1487	G
31	CA	1492	A
31	CA	1497	G
31	CA	1499	A
31	CA	1502	A
31	CA	1504	G
31	CA	1505	G
31	CA	1506	U
31	CA	1517	G

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Mol	Chain	Res	Type
31	CA	1529	G
31	CA	1530	G
31	CA	1531	A
52	CB	2	C
52	CB	7	G
52	CB	8	U
52	CB	9	G
52	CB	13	G
52	CB	14	A
52	CB	16	U
52	CB	17	U
52	CB	18	G
52	CB	19	G
52	CB	20	U
52	CB	21	A
52	CB	22	G
52	CB	23	A
52	CB	24	C
52	CB	26	C
52	CB	27	G
52	CB	37	G
52	CB	42	U
52	CB	46	G
52	CB	47	C
52	CB	48	C
52	CB	49	C
52	CB	50	A
52	CB	51	A
52	CB	52	U
52	CB	55	G
52	CB	56	G
52	CB	58	U
52	CB	59	U
52	CB	70	G
52	CB	71	U
52	CB	74	C
52	CB	76	U
52	CB	85	C
52	CB	86	C
52	CB	87	A
53	CC	2	G
53	CC	9	G

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Mol	Chain	Res	Type
53	CC	13	C
53	CC	14	A
53	CC	16	C
53	CC	18	C
53	CC	19	G
53	CC	20	G
53	CC	21	U
53	CC	22	A
53	CC	23	G
53	CC	32	G
53	CC	48	U
53	CC	49	C
53	CC	50	G
53	CC	69	C
53	CC	77	A
53	CD	6	G
53	CD	8	U
53	CD	9	G
53	CD	13	C
53	CD	14	A
53	CD	16	C
53	CD	17	C
53	CD	19	G
53	CD	20	G
53	CD	21	U
53	CD	22	A
53	CD	23	G
53	CD	24	C
53	CD	35	C
53	CD	40	C
53	CD	46	G
53	CD	48	U
53	CD	49	C
53	CD	52	C
53	CD	54	G
53	CD	58	A
53	CD	60	A
53	CD	62	C
53	CD	68	C
53	CD	70	C
53	CD	74	A
53	CD	77	A

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Mol	Chain	Res	Type
54	C1	14	U
54	C1	19	U
31	DA	7	G
31	DA	9	G
31	DA	31	G
31	DA	32	A
31	DA	39	G
31	DA	47	C
31	DA	48	C
31	DA	51	A
31	DA	54	C
31	DA	64	G
31	DA	65	U
31	DA	66	G
31	DA	73	G
31	DA	78	G
31	DA	79	G
31	DA	81	G
31	DA	84	U
31	DA	85	U
31	DA	86	U
31	DA	87	A
31	DA	90	C
31	DA	91	C
31	DA	92	G
31	DA	95	G
31	DA	101	A
31	DA	115	G
31	DA	116	A
31	DA	121	C
31	DA	131	C
31	DA	144	G
31	DA	163	C
31	DA	169	C
31	DA	174	C
31	DA	182	U
31	DA	188	U
31	DA	189	U
31	DA	190	G
31	DA	191(A)	G
31	DA	191(D)	U
31	DA	195	A

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Mol	Chain	Res	Type
31	DA	197	A
31	DA	198	G
31	DA	208	U
31	DA	209	U
31	DA	210	U
31	DA	216	G
31	DA	217	C
31	DA	231	G
31	DA	243	A
31	DA	244	U
31	DA	247	G
31	DA	250	A
31	DA	251	G
31	DA	266	G
31	DA	267	C
31	DA	269	C
31	DA	271	C
31	DA	274	A
31	DA	279	A
31	DA	280	C
31	DA	281	G
31	DA	289	G
31	DA	298	A
31	DA	321	A
31	DA	328	C
31	DA	329	A
31	DA	332	G
31	DA	340	U
31	DA	345	C
31	DA	346	G
31	DA	347	G
31	DA	350	G
31	DA	351	G
31	DA	352	C
31	DA	353	A
31	DA	354	G
31	DA	356	A
31	DA	365	U
31	DA	367	U
31	DA	372	C
31	DA	373	A
31	DA	397	A

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Mol	Chain	Res	Type
31	DA	398	C
31	DA	406	G
31	DA	411	A
31	DA	412	A
31	DA	413	G
31	DA	419	C
31	DA	421	U
31	DA	422	C
31	DA	423	G
31	DA	424	G
31	DA	429	U
31	DA	430	A
31	DA	439	A
31	DA	442	C
31	DA	445	G
31	DA	451	A
31	DA	452	A
31	DA	453	A
31	DA	466	C
31	DA	467	G
31	DA	475	G
31	DA	476	G
31	DA	478	A
31	DA	482	A
31	DA	484	G
31	DA	485	G
31	DA	486	U
31	DA	496	A
31	DA	497	U
31	DA	505	G
31	DA	509	A
31	DA	510	A
31	DA	511	C
31	DA	518	C
31	DA	519	C
31	DA	521	G
31	DA	527	G
31	DA	530	G
31	DA	531	U
31	DA	532	A
31	DA	533	A
31	DA	535	A

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Mol	Chain	Res	Type
31	DA	536	C
31	DA	544	G
31	DA	547	A
31	DA	553	A
31	DA	559	A
31	DA	561	U
31	DA	562	C
31	DA	564	C
31	DA	568	G
31	DA	572	A
31	DA	573	A
31	DA	576	G
31	DA	577	G
31	DA	607	A
31	DA	615	C
31	DA	618	C
31	DA	630	G
31	DA	632	A
31	DA	633	G
31	DA	651	C
31	DA	653	A
31	DA	661	G
31	DA	665	A
31	DA	687	A
31	DA	688	G
31	DA	702	A
31	DA	703	G
31	DA	704	A
31	DA	723	U
31	DA	724	G
31	DA	731	G
31	DA	749	C
31	DA	755	G
31	DA	773	G
31	DA	774	G
31	DA	776	G
31	DA	777	A
31	DA	778	G
31	DA	780	A
31	DA	787	A
31	DA	792	A
31	DA	793	U

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Mol	Chain	Res	Type
31	DA	794	A
31	DA	799	G
31	DA	800	G
31	DA	801	U
31	DA	802	A
31	DA	813	U
31	DA	816	A
31	DA	817	C
31	DA	819	A
31	DA	821	G
31	DA	827	U
31	DA	828	A
31	DA	841	U
31	DA	842	C
31	DA	843	U
31	DA	848	C
31	DA	859	A
31	DA	870	U
31	DA	871	U
31	DA	885	G
31	DA	913	A
31	DA	914	A
31	DA	922	G
31	DA	926	G
31	DA	927	G
31	DA	934	C
31	DA	935	A
31	DA	958	A
31	DA	960	U
31	DA	961	U
31	DA	966	G
31	DA	968	A
31	DA	969	A
31	DA	972	C
31	DA	974	A
31	DA	976	G
31	DA	977	A
31	DA	978	A
31	DA	983	A
31	DA	989	C
31	DA	991	U
31	DA	992	U

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Mol	Chain	Res	Type
31	DA	993	G
31	DA	994	A
31	DA	995	C
31	DA	1004	A
31	DA	1005	A
31	DA	1006	C
31	DA	1009	G
31	DA	1013	G
31	DA	1016	A
31	DA	1022	G
31	DA	1024	G
31	DA	1025	U
31	DA	1028	C
31	DA	1028(B)	C
31	DA	1029	G
31	DA	1030	C
31	DA	1032(A)	G
31	DA	1032(B)	G
31	DA	1036	G
31	DA	1039	C
31	DA	1040	U
31	DA	1042	G
31	DA	1046	A
31	DA	1053	G
31	DA	1054	C
31	DA	1055	A
31	DA	1066	C
31	DA	1067	A
31	DA	1073	U
31	DA	1081	G
31	DA	1084	G
31	DA	1086	U
31	DA	1087	G
31	DA	1091	U
31	DA	1092	A
31	DA	1094	G
31	DA	1095	U
31	DA	1101	A
31	DA	1118	C
31	DA	1124	G
31	DA	1125	U
31	DA	1126	U

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Mol	Chain	Res	Type
31	DA	1127	G
31	DA	1128	C
31	DA	1129	C
31	DA	1130	A
31	DA	1131	G
31	DA	1133	G
31	DA	1136	U
31	DA	1137	C
31	DA	1139	G
31	DA	1146	A
31	DA	1147	C
31	DA	1154	G
31	DA	1157	A
31	DA	1158	C
31	DA	1159	U
31	DA	1160	G
31	DA	1178	G
31	DA	1179	A
31	DA	1181	G
31	DA	1182	G
31	DA	1183	A
31	DA	1184	G
31	DA	1185	G
31	DA	1190	G
31	DA	1196	U
31	DA	1197	G
31	DA	1201	A
31	DA	1204	A
31	DA	1212	U
31	DA	1213	A
31	DA	1220	G
31	DA	1225	A
31	DA	1226	C
31	DA	1227	A
31	DA	1228	C
31	DA	1232	U
31	DA	1238	A
31	DA	1240	U
31	DA	1241	G
31	DA	1256	A
31	DA	1257	U
31	DA	1258	G

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Mol	Chain	Res	Type
31	DA	1260	C
31	DA	1269	A
31	DA	1278	U
31	DA	1280	A
31	DA	1286	A
31	DA	1287	A
31	DA	1288	A
31	DA	1290	G
31	DA	1297	C
31	DA	1298	C
31	DA	1299	A
31	DA	1300	G
31	DA	1301	U
31	DA	1302	U
31	DA	1303	C
31	DA	1305	G
31	DA	1306	A
31	DA	1317	C
31	DA	1320	C
31	DA	1322	C
31	DA	1323	G
31	DA	1326	C
31	DA	1331	G
31	DA	1335	C
31	DA	1338	G
31	DA	1346	A
31	DA	1347	G
31	DA	1349	A
31	DA	1353	G
31	DA	1362(A)	C
31	DA	1363	A
31	DA	1368	G
31	DA	1370	G
31	DA	1375	A
31	DA	1379	G
31	DA	1382	C
31	DA	1397	C
31	DA	1398	A
31	DA	1404	C
31	DA	1417	G
31	DA	1419	G
31	DA	1442	G

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Mol	Chain	Res	Type
31	DA	1443	G
31	DA	1446	A
31	DA	1450	U
31	DA	1451	A
31	DA	1453	G
31	DA	1454	G
31	DA	1487	G
31	DA	1492	A
31	DA	1497	G
31	DA	1499	A
31	DA	1502	A
31	DA	1503	A
31	DA	1504	G
31	DA	1506	U
31	DA	1507	A
31	DA	1517	G
31	DA	1519	A
31	DA	1520	G
31	DA	1529	G
31	DA	1530	G
31	DA	1531	A
52	DB	2	C
52	DB	7	G
52	DB	8	U
52	DB	9	G
52	DB	14	A
52	DB	17	U
52	DB	18	G
52	DB	19	G
52	DB	20	U
52	DB	21	A
52	DB	22	G
52	DB	23	A
52	DB	24	C
52	DB	26	C
52	DB	27	G
52	DB	42	U
52	DB	45	U
52	DB	46	G
52	DB	47	C
52	DB	48	C
52	DB	49	C

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Mol	Chain	Res	Type
52	DB	50	A
52	DB	51	A
52	DB	52	U
52	DB	55	G
52	DB	56	G
52	DB	58	U
52	DB	70	G
52	DB	74	C
52	DB	79	U
52	DB	85	C
52	DB	86	C
52	DB	87	A
53	DC	2	G
53	DC	8	U
53	DC	9	G
53	DC	16	C
53	DC	17	C
53	DC	18	C
53	DC	19	G
53	DC	20	G
53	DC	21	U
53	DC	22	A
53	DC	32	G
53	DC	43	G
53	DC	48	U
53	DC	49	C
53	DC	50	G
53	DC	69	C
53	DC	77	A
53	DD	6	G
53	DD	8	U
53	DD	9	G
53	DD	13	C
53	DD	14	A
53	DD	16	C
53	DD	17	C
53	DD	19	G
53	DD	20	G
53	DD	21	U
53	DD	23	G
53	DD	24	C
53	DD	35	C

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Mol	Chain	Res	Type
53	DD	40	C
53	DD	46	G
53	DD	48	U
53	DD	49	C
53	DD	52	C
53	DD	54	G
53	DD	58	A
53	DD	60	A
53	DD	62	C
53	DD	68	C
53	DD	70	C
53	DD	74	A
53	DD	77	A
54	D1	14	U
54	D1	19	U

All (206) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	74	A
1	AA	196	A
1	AA	222	A
1	AA	229	A
1	AA	270(L)	U
1	AA	271(B)	G
1	AA	271(C)	U
1	AA	404	C
1	AA	587	C
1	AA	654(S)	G
1	AA	752	A
1	AA	856	C
1	AA	881	G
1	AA	974	G
1	AA	974(A)	C
1	AA	1022	G
1	AA	1026	U
1	AA	1060	U
1	AA	1069	A
1	AA	1085	A
1	AA	1130	U
1	AA	1178	C
1	AA	1210	A

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Mol	Chain	Res	Type
1	AA	1312	U
1	AA	1379	A
1	AA	1427	A
1	AA	1510	A
1	AA	1536	A
1	AA	1558	A
1	AA	1608	A
1	AA	1653	G
1	AA	1694	C
1	AA	1799	G
1	AA	1819	A
1	AA	1899	G
1	AA	1937	A
1	AA	1955	U
1	AA	1992	G
1	AA	2157	G
1	AA	2211	G
1	AA	2346	A
1	AA	2402	C
1	AA	2428	G
1	AA	2439	A
1	AA	2468	G
1	AA	2566	A
1	AA	2610	C
1	AA	2613	U
1	AA	2681	C
1	AA	2689	U
1	AA	2751	G
1	AA	2756	U
1	BA	49	A
1	BA	71	A
1	BA	74	A
1	BA	128	C
1	BA	196	A
1	BA	204	A
1	BA	205	G
1	BA	278	A
1	BA	310	A
1	BA	653	A
1	BA	654(S)	G
1	BA	669	G
1	BA	752	A

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Mol	Chain	Res	Type
1	BA	856	C
1	BA	877	U
1	BA	886	C
1	BA	888	C
1	BA	893	C
1	BA	1022	G
1	BA	1085	A
1	BA	1089	G
1	BA	1171	G
1	BA	1210	A
1	BA	1300	U
1	BA	1416	G
1	BA	1420	U
1	BA	1427	A
1	BA	1460	A
1	BA	1558	A
1	BA	1653	G
1	BA	1819	A
1	BA	1955	U
1	BA	1963	U
1	BA	1992	G
1	BA	2126	A
1	BA	2135	A
1	BA	2191	G
1	BA	2210	G
1	BA	2211	G
1	BA	2225	A
1	BA	2275	C
1	BA	2282	G
1	BA	2406	U
1	BA	2422	A
1	BA	2439	A
1	BA	2447	G
1	BA	2602	A
1	BA	2610	C
1	BA	2689	U
1	BA	2776	A
1	BA	2790	A
1	BA	2859	G
1	BA	2893	G
31	CA	5	U
31	CA	31	G

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Mol	Chain	Res	Type
31	CA	49	U
31	CA	50	A
31	CA	115	G
31	CA	119	A
31	CA	181	G
31	CA	244	U
31	CA	266	G
31	CA	412	A
31	CA	428	G
31	CA	429	U
31	CA	484	G
31	CA	509	A
31	CA	530	G
31	CA	560	U
31	CA	575	G
31	CA	687	A
31	CA	703	G
31	CA	748	C
31	CA	812	C
31	CA	820	U
31	CA	871	U
31	CA	913	A
31	CA	974	A
31	CA	992	U
31	CA	1025	U
31	CA	1027	C
31	CA	1065	U
31	CA	1178	G
31	CA	1279	A
31	CA	1285	A
31	CA	1498	U
31	CA	1503	A
31	CA	1504	G
52	CB	18	G
52	CB	19	G
52	CB	21	A
52	CB	23	A
53	CC	1	C
53	CC	19	G
53	CC	20	G
53	CC	48	U
53	CD	13	C

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Mol	Chain	Res	Type
31	DA	31	G
31	DA	64	G
31	DA	89	U
31	DA	115	G
31	DA	197	A
31	DA	201	C
31	DA	209	U
31	DA	243	A
31	DA	250	A
31	DA	266	G
31	DA	279	A
31	DA	328	C
31	DA	345	C
31	DA	353	A
31	DA	412	A
31	DA	429	U
31	DA	452	A
31	DA	485	G
31	DA	509	A
31	DA	560	U
31	DA	575	G
31	DA	631	G
31	DA	632	A
31	DA	687	A
31	DA	748	C
31	DA	793	U
31	DA	812	C
31	DA	913	A
31	DA	992	U
31	DA	993	G
31	DA	1053	G
31	DA	1054	C
31	DA	1085	U
31	DA	1126	U
31	DA	1128	C
31	DA	1183	A
31	DA	1279	A
31	DA	1285	A
31	DA	1297	C
31	DA	1300	G
31	DA	1301	U
31	DA	1305	G

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Mol	Chain	Res	Type
31	DA	1337	G
31	DA	1346	A
31	DA	1442	G
31	DA	1449	C
31	DA	1498	U
31	DA	1503	A
31	DA	1529	G
52	DB	21	A
52	DB	23	A
52	DB	48	C
53	DC	1	C
53	DC	19	G
53	DC	20	G
53	DC	48	U
53	DD	13	C

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1703 ligands modelled in this entry, 1701 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
56	PAR	DA	1805	-	44,45,45	0.55	0	63,67,67	1.70	16 (25%)
56	PAR	CA	1841	-	44,45,45	0.53	0	63,67,67	1.41	9 (14%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	PAR	DA	1805	-	-	6/18/94/94	0/4/4/4
56	PAR	CA	1841	-	-	8/18/94/94	0/4/4/4

There are no bond length outliers.

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	DA	1805	PAR	C13-O52-C52	-4.51	107.28	117.98
56	DA	1805	PAR	C11-O51-C51	3.99	121.51	113.72
56	DA	1805	PAR	O54-C54-C64	3.94	113.64	106.07
56	CA	1841	PAR	C41-C31-C21	-3.78	104.72	110.99
56	CA	1841	PAR	O54-C54-C64	3.75	113.28	106.07
56	DA	1805	PAR	C44-C34-C24	3.63	117.02	110.99
56	DA	1805	PAR	C11-O11-C42	-3.54	109.58	117.98
56	DA	1805	PAR	C14-O33-C33	-3.24	110.29	117.98
56	CA	1841	PAR	C11-O11-C42	-2.90	111.10	117.98
56	CA	1841	PAR	C14-O33-C33	-2.75	111.47	117.98
56	DA	1805	PAR	O51-C51-C41	2.73	114.63	109.70
56	DA	1805	PAR	O34-C34-C44	-2.67	104.09	110.38
56	CA	1841	PAR	C32-C22-C12	-2.57	106.61	111.02
56	DA	1805	PAR	C14-C24-C34	2.47	116.49	110.29
56	DA	1805	PAR	O51-C11-C21	2.44	115.48	110.08
56	CA	1841	PAR	C13-O52-C52	-2.38	112.34	117.98
56	DA	1805	PAR	O54-C54-C44	-2.30	105.56	109.70
56	CA	1841	PAR	C14-C24-N24	-2.28	106.09	110.20
56	DA	1805	PAR	C52-C42-C32	2.28	115.53	111.31
56	DA	1805	PAR	C41-C31-C21	-2.26	107.25	110.99
56	CA	1841	PAR	O54-C54-C44	-2.25	105.64	109.70
56	CA	1841	PAR	C14-O54-C54	2.24	118.09	113.72
56	DA	1805	PAR	C14-O54-C54	2.07	117.76	113.72
56	DA	1805	PAR	C34-C24-N24	-2.02	106.91	111.05
56	DA	1805	PAR	O44-C44-C34	-2.00	105.66	110.38

There are no chirality outliers.

All (14) torsion outliers are listed below:

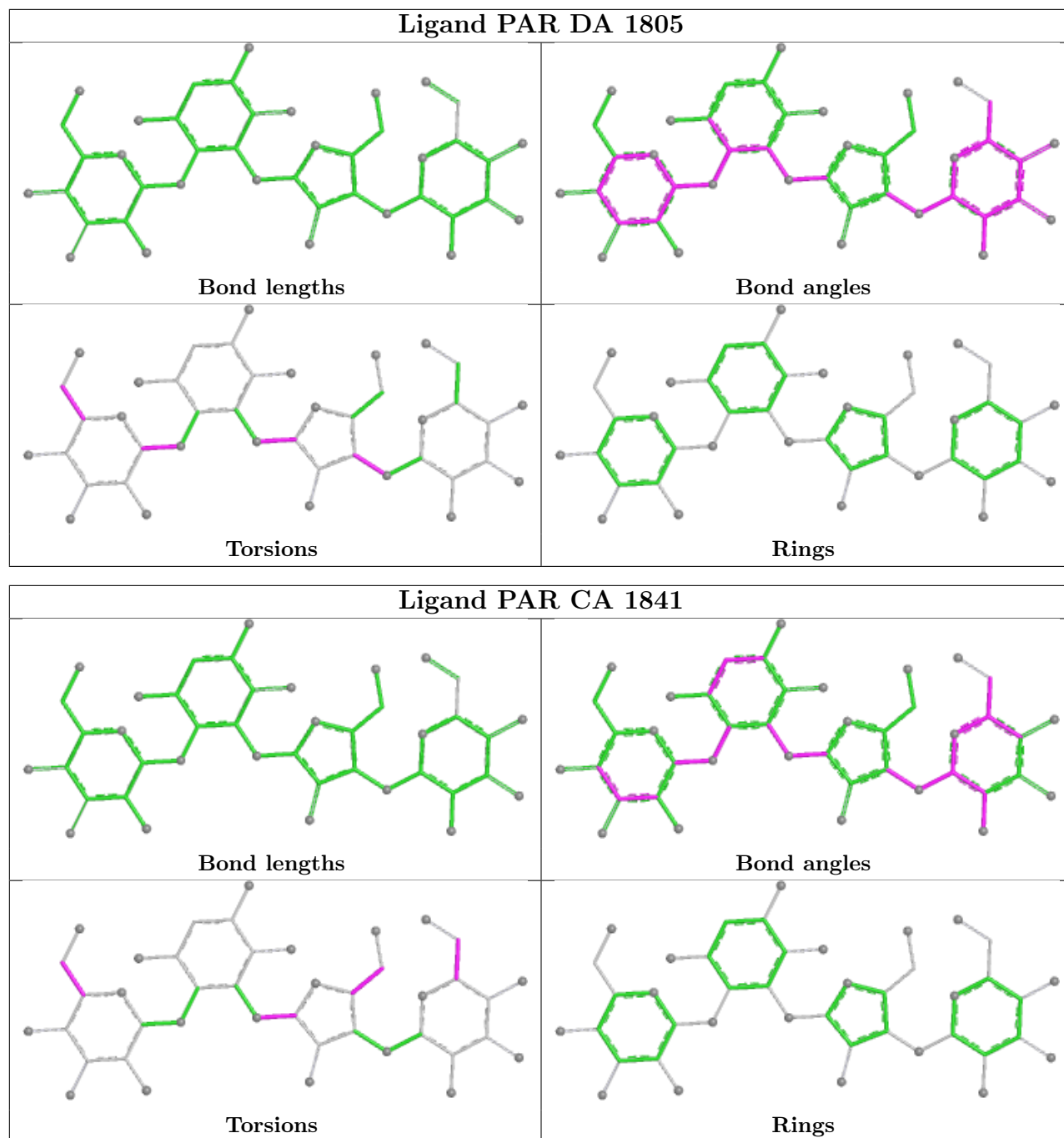
Mol	Chain	Res	Type	Atoms
56	CA	1841	PAR	C23-C13-O52-C52
56	CA	1841	PAR	C44-C54-C64-N64
56	CA	1841	PAR	O54-C54-C64-N64
56	DA	1805	PAR	C23-C13-O52-C52
56	CA	1841	PAR	O43-C43-C53-O53
56	CA	1841	PAR	C33-C43-C53-O53
56	CA	1841	PAR	C41-C51-C61-O61
56	DA	1805	PAR	C41-C51-C61-O61
56	DA	1805	PAR	O51-C51-C61-O61
56	CA	1841	PAR	O51-C51-C61-O61
56	CA	1841	PAR	O43-C13-O52-C52
56	DA	1805	PAR	O43-C13-O52-C52
56	DA	1805	PAR	O51-C11-O11-C42
56	DA	1805	PAR	C43-C33-O33-C14

There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
56	DA	1805	PAR	5	0
56	CA	1841	PAR	4	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	2912/2912 (100%)	-0.68	14 (0%) 87 76	50, 80, 215, 247	0
1	BA	2909/2912 (99%)	-0.56	14 (0%) 87 76	60, 95, 235, 249	0
2	AB	122/122 (100%)	-0.64	1 (0%) 82 68	81, 105, 124, 182	0
2	BB	122/122 (100%)	-0.58	1 (0%) 82 68	98, 133, 156, 203	0
3	AD	272/276 (98%)	-0.30	0 100 100	47, 72, 94, 112	0
3	BD	272/276 (98%)	-0.06	4 (1%) 72 53	56, 82, 103, 138	0
4	AE	205/206 (99%)	0.55	29 (14%) 6 5	55, 91, 137, 149	0
4	BE	205/206 (99%)	0.30	17 (8%) 17 13	66, 104, 153, 172	0
5	AF	202/210 (96%)	-0.34	2 (0%) 79 63	52, 84, 123, 137	0
5	BF	208/210 (99%)	0.61	23 (11%) 10 9	64, 108, 166, 191	0
6	AG	181/182 (99%)	-0.08	5 (2%) 55 36	95, 115, 143, 157	0
6	BG	181/182 (99%)	0.15	4 (2%) 62 43	125, 148, 169, 176	0
7	AH	170/180 (94%)	0.40	6 (3%) 47 31	89, 119, 138, 160	0
7	BH	170/180 (94%)	0.50	13 (7%) 20 14	161, 203, 224, 232	0
8	AK	146/148 (98%)	0.47	7 (4%) 35 24	85, 134, 151, 157	0
8	BK	146/148 (98%)	0.31	3 (2%) 63 44	91, 134, 158, 167	0
9	AM	138/140 (98%)	0.55	12 (8%) 16 12	70, 95, 131, 144	0
9	BM	138/140 (98%)	0.34	4 (2%) 53 35	86, 118, 148, 158	0
10	AN	122/122 (100%)	-0.35	0 100 100	63, 82, 98, 111	0
10	BN	122/122 (100%)	0.06	1 (0%) 82 68	76, 98, 116, 133	0
11	AO	150/150 (100%)	0.27	8 (5%) 32 22	45, 90, 122, 167	0
11	BO	150/150 (100%)	1.17	28 (18%) 3 3	44, 101, 149, 186	0
12	AP	141/141 (100%)	0.55	10 (7%) 22 15	58, 91, 116, 142	0
12	BP	141/141 (100%)	0.65	10 (7%) 22 15	58, 107, 142, 164	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	A0	118/118 (100%)	-0.31	1 (0%) 82 68	64, 90, 109, 123	0
13	B0	117/118 (99%)	-0.46	0 100 100	68, 90, 113, 128	0
14	AQ	111/112 (99%)	0.21	3 (2%) 56 37	83, 103, 126, 142	0
14	BQ	111/112 (99%)	0.15	3 (2%) 56 37	95, 132, 156, 175	0
15	AR	137/146 (93%)	-0.07	6 (4%) 39 25	75, 97, 147, 178	0
15	BR	137/146 (93%)	0.17	8 (5%) 29 19	86, 107, 167, 187	0
16	A1	117/118 (99%)	-0.05	3 (2%) 57 38	61, 84, 116, 145	0
16	B1	117/118 (99%)	0.30	2 (1%) 69 50	71, 106, 146, 165	0
17	A2	101/101 (100%)	0.20	3 (2%) 52 35	61, 105, 126, 145	0
17	B2	101/101 (100%)	1.26	21 (20%) 2 2	73, 131, 148, 158	0
18	AS	113/113 (100%)	-0.13	3 (2%) 56 37	55, 80, 111, 163	0
18	BS	113/113 (100%)	0.01	2 (1%) 67 49	69, 84, 121, 162	0
19	AT	92/96 (95%)	0.12	5 (5%) 31 21	63, 78, 102, 118	0
19	BT	92/96 (95%)	0.03	4 (4%) 40 25	78, 96, 119, 134	0
20	AU	102/110 (92%)	0.48	7 (6%) 23 16	82, 107, 157, 172	0
20	BU	102/110 (92%)	1.07	16 (15%) 5 4	97, 123, 176, 191	0
21	AV	175/206 (84%)	0.63	9 (5%) 33 22	93, 133, 193, 198	0
21	BV	179/206 (86%)	0.11	3 (1%) 69 50	128, 166, 212, 218	0
22	A3	76/85 (89%)	-0.06	2 (2%) 57 38	65, 84, 98, 136	0
22	B3	77/85 (90%)	-0.03	2 (2%) 57 38	79, 101, 122, 155	0
23	AZ	97/98 (98%)	-0.10	3 (3%) 51 35	61, 81, 137, 165	0
23	BZ	97/98 (98%)	0.41	7 (7%) 21 15	69, 91, 141, 162	0
24	AW	66/72 (91%)	0.25	7 (10%) 11 9	69, 87, 106, 136	0
24	BW	69/72 (95%)	0.28	1 (1%) 73 55	90, 114, 148, 183	0
25	AX	59/60 (98%)	0.06	2 (3%) 48 32	73, 90, 120, 135	0
25	BX	59/60 (98%)	0.29	1 (1%) 69 50	86, 114, 146, 166	0
26	A4	66/71 (92%)	0.25	1 (1%) 72 53	127, 161, 179, 187	0
26	B4	63/71 (88%)	0.28	0 100 100	154, 190, 200, 207	0
27	A5	59/60 (98%)	0.39	5 (8%) 16 13	55, 95, 180, 185	0
27	B5	59/60 (98%)	0.43	4 (6%) 23 16	65, 94, 181, 192	0
28	A6	45/54 (83%)	1.10	8 (17%) 4 3	122, 152, 173, 181	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	B6	45/54 (83%)	1.45	13 (28%) 1 1	141, 173, 188, 192	0
29	A7	49/49 (100%)	-0.53	0 100 100	50, 60, 106, 137	0
29	B7	49/49 (100%)	-0.23	0 100 100	60, 69, 129, 148	0
30	A8	61/65 (93%)	0.05	4 (6%) 24 16	64, 78, 95, 120	0
30	B8	61/65 (93%)	1.06	13 (21%) 2 2	78, 95, 110, 142	0
31	CA	1506/1506 (100%)	-0.57	15 (0%) 79 63	64, 112, 193, 248	0
31	DA	1506/1506 (100%)	-0.57	7 (0%) 87 76	76, 122, 195, 248	0
32	CE	237/256 (92%)	0.93	33 (13%) 6 5	115, 149, 188, 198	0
32	DE	237/256 (92%)	0.99	33 (13%) 6 5	127, 165, 200, 215	0
33	CF	205/239 (85%)	0.40	6 (2%) 53 35	98, 124, 158, 166	0
33	DF	206/239 (86%)	0.62	18 (8%) 16 12	128, 151, 180, 188	0
34	CG	208/208 (100%)	0.23	4 (1%) 66 48	95, 119, 143, 154	0
34	DG	208/208 (100%)	0.09	3 (1%) 73 55	91, 116, 137, 151	0
35	CH	151/162 (93%)	0.13	4 (2%) 57 38	87, 109, 132, 166	0
35	DH	151/162 (93%)	-0.00	0 100 100	104, 125, 148, 169	0
36	CI	101/101 (100%)	0.14	2 (1%) 65 46	89, 112, 130, 153	0
36	DI	101/101 (100%)	0.04	0 100 100	87, 109, 130, 156	0
37	CJ	155/156 (99%)	0.35	9 (5%) 29 19	111, 128, 158, 167	0
37	DJ	155/156 (99%)	0.14	2 (1%) 75 56	116, 136, 164, 170	0
38	CK	138/138 (100%)	-0.09	0 100 100	95, 116, 130, 137	0
38	DK	138/138 (100%)	-0.16	0 100 100	109, 129, 143, 151	0
39	CL	127/128 (99%)	0.30	5 (3%) 43 29	99, 147, 167, 173	0
39	DL	127/128 (99%)	-0.01	4 (3%) 51 35	120, 158, 174, 178	0
40	CM	99/105 (94%)	0.65	7 (7%) 22 15	93, 146, 176, 179	0
40	DM	99/105 (94%)	0.66	8 (8%) 18 13	127, 164, 180, 185	0
41	CN	119/129 (92%)	0.11	6 (5%) 34 23	79, 110, 142, 169	0
41	DN	119/129 (92%)	0.20	6 (5%) 34 23	90, 116, 148, 172	0
42	CO	125/132 (94%)	0.06	4 (3%) 50 34	76, 87, 119, 164	0
42	DO	125/132 (94%)	0.38	8 (6%) 25 17	88, 112, 137, 175	0
43	CP	116/126 (92%)	0.10	2 (1%) 69 50	98, 132, 151, 160	0
43	DP	117/126 (92%)	-0.13	3 (2%) 57 38	117, 160, 174, 178	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	CQ	60/61 (98%)	0.12	3 (5%) 34 23	95, 115, 129, 139	0
44	DQ	60/61 (98%)	-0.09	1 (1%) 69 50	129, 146, 159, 166	0
45	CR	88/89 (98%)	-0.33	1 (1%) 78 60	86, 108, 129, 133	0
45	DR	88/89 (98%)	-0.21	0 100 100	85, 118, 142, 148	0
46	CS	84/88 (95%)	-0.37	1 (1%) 76 58	104, 121, 148, 179	0
46	DS	84/88 (95%)	0.07	3 (3%) 46 31	94, 111, 134, 166	0
47	CT	100/105 (95%)	-0.39	0 100 100	94, 115, 132, 146	0
47	DT	100/105 (95%)	-0.22	0 100 100	95, 117, 141, 155	0
48	CU	72/88 (81%)	0.51	5 (6%) 23 16	91, 112, 146, 173	0
48	DU	72/88 (81%)	0.38	6 (8%) 17 13	97, 120, 156, 173	0
49	CV	78/93 (83%)	-0.08	1 (1%) 75 56	112, 136, 151, 158	0
49	DV	78/93 (83%)	-0.16	0 100 100	150, 167, 187, 191	0
50	CW	99/106 (93%)	-0.42	0 100 100	106, 130, 158, 169	0
50	DW	99/106 (93%)	-0.15	0 100 100	97, 124, 158, 172	0
51	CX	25/27 (92%)	-0.46	0 100 100	101, 124, 142, 160	0
51	DX	25/27 (92%)	-0.40	0 100 100	126, 149, 163, 175	0
52	CB	87/87 (100%)	0.29	4 (4%) 37 25	91, 155, 201, 213	2 (2%)
52	DB	87/87 (100%)	-0.02	3 (3%) 48 32	97, 156, 203, 216	2 (2%)
53	CC	77/77 (100%)	-0.27	1 (1%) 75 56	82, 118, 149, 164	0
53	CD	77/77 (100%)	0.15	0 100 100	86, 232, 246, 248	0
53	DC	77/77 (100%)	-0.45	1 (1%) 75 56	87, 120, 153, 167	0
53	DD	77/77 (100%)	0.28	1 (1%) 75 56	91, 234, 245, 249	0
54	C1	10/10 (100%)	0.13	1 (10%) 12 10	85, 102, 117, 131	0
54	D1	10/10 (100%)	-0.28	1 (10%) 12 10	88, 109, 119, 137	0
All	All	21107/21634 (97%)	-0.14	610 (2%) 53 35	44, 110, 191, 249	4 (0%)

All (610) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
27	B5	2	ALA	7.9
7	AH	155	SER	7.7
32	DE	4	GLU	7.7
9	AM	134	ARG	7.5
9	AM	138	LEU	7.4

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Mol	Chain	Res	Type	RSRZ
11	BO	61	ARG	6.9
12	AP	85	LYS	6.4
17	B2	91	TYR	6.4
17	B2	45	THR	6.0
39	CL	127	LYS	5.9
27	A5	2	ALA	5.9
32	DE	5	ILE	5.6
9	AM	130	HIS	5.6
37	CJ	153	HIS	5.4
32	CE	107	THR	5.4
5	BF	69	HIS	5.4
30	B8	56	GLU	5.3
4	AE	79	ARG	5.3
17	B2	73	SER	5.1
32	DE	228	GLY	5.1
11	BO	15	ARG	5.1
32	CE	238	LEU	5.0
20	BU	103	GLY	5.0
11	BO	57	THR	4.9
39	CL	126	SER	4.9
33	DF	87	LEU	4.7
11	AO	61	ARG	4.7
11	BO	64	LYS	4.7
12	AP	86	GLY	4.7
27	B5	3	LYS	4.7
4	AE	193	GLY	4.6
37	CJ	85	TYR	4.6
32	CE	228	GLY	4.6
14	BQ	60	GLY	4.5
35	CH	22	GLY	4.5
28	B6	13	CYS	4.5
3	BD	273	ARG	4.4
18	AS	113	LYS	4.4
5	BF	6	VAL	4.3
30	B8	33	ASN	4.3
6	AG	80	PHE	4.2
1	AA	654(J)	A	4.2
31	CA	1533	C	4.2
11	BO	50	ARG	4.2
37	CJ	84	ASN	4.1
32	DE	229	VAL	4.1
4	AE	204	ALA	4.1

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Mol	Chain	Res	Type	RSRZ
12	BP	86	GLY	4.1
43	DP	4	ILE	4.1
11	BO	35	HIS	4.1
34	CG	31	CYS	4.1
17	A2	36	PRO	4.1
7	BH	171	LEU	4.0
22	A3	85	ALA	4.0
4	AE	205	ALA	4.0
30	B8	32	LEU	4.0
4	AE	59	VAL	4.0
32	CE	110	GLN	4.0
11	BO	46	LYS	4.0
52	CB	18	G	3.9
21	AV	175	VAL	3.9
31	CA	1397	C	3.9
6	AG	82	LEU	3.9
32	DE	6	THR	3.9
24	BW	43	GLN	3.9
4	BE	52	LEU	3.9
32	CE	217	ARG	3.9
32	DE	9	GLU	3.9
20	AU	103	GLY	3.9
9	BM	138	LEU	3.9
33	DF	79	ARG	3.9
33	DF	103	VAL	3.9
32	CE	239	VAL	3.8
17	B2	36	PRO	3.8
20	BU	98	VAL	3.8
11	BO	6	LEU	3.7
31	DA	412	A	3.7
42	CO	91	PRO	3.7
31	DA	1032	A	3.7
4	BE	59	VAL	3.7
9	BM	46	VAL	3.7
17	B2	72	VAL	3.7
8	BK	125	GLU	3.7
21	AV	172	ALA	3.7
15	BR	1	MET	3.6
4	AE	52	LEU	3.6
32	DE	52	GLU	3.6
4	BE	131	ALA	3.6
1	AA	1914	C	3.6

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Mol	Chain	Res	Type	RSRZ
32	CE	96	ARG	3.6
4	AE	62	PRO	3.6
41	DN	127	LYS	3.6
1	AA	654(K)	C	3.5
28	A6	34	LEU	3.5
20	AU	55	TYR	3.5
5	BF	15	SER	3.5
20	AU	52	SER	3.5
4	AE	7	VAL	3.5
18	BS	111	HIS	3.5
3	BD	40	THR	3.5
37	DJ	153	HIS	3.5
9	AM	136	GLU	3.4
17	B2	81	TYR	3.4
42	DO	26	ALA	3.4
33	DF	49	SER	3.4
32	CE	160	ASP	3.4
7	AH	171	LEU	3.4
11	BO	62	LEU	3.4
23	BZ	85	LEU	3.4
4	AE	20	ALA	3.4
11	AO	64	LYS	3.4
48	CU	88	LYS	3.4
15	AR	1	MET	3.4
4	AE	58	ARG	3.3
4	BE	70	ALA	3.3
30	B8	53	PRO	3.3
8	BK	11	ASN	3.3
11	BO	52	GLU	3.3
4	BE	76	ARG	3.3
6	AG	3	LEU	3.3
5	BF	131	GLY	3.3
7	AH	150	ALA	3.3
20	BU	86	ARG	3.3
7	BH	105	LEU	3.3
7	BH	131	VAL	3.3
27	A5	54	GLY	3.3
34	DG	23	GLY	3.3
4	BE	51	PHE	3.3
20	BU	49	VAL	3.3
1	AA	1963	U	3.3
28	B6	26	ASN	3.3

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Mol	Chain	Res	Type	RSRZ
42	DO	64	TYR	3.2
48	CU	17	SER	3.2
30	B8	49	VAL	3.2
32	DE	123	ALA	3.2
31	CA	86	U	3.2
31	DA	1029	G	3.2
33	CF	89	GLU	3.2
43	CP	8	GLU	3.2
1	AA	4	C	3.2
12	BP	89	ASN	3.2
30	B8	59	LYS	3.2
6	AG	2	PRO	3.2
41	DN	128	ALA	3.2
9	BM	45	ASN	3.2
33	CF	72	LYS	3.2
28	B6	34	LEU	3.2
30	B8	31	HIS	3.2
28	A6	13	CYS	3.2
23	BZ	98	LEU	3.2
5	BF	11	VAL	3.2
32	CE	188	ALA	3.2
12	BP	85	LYS	3.1
32	DE	22	LYS	3.1
4	AE	55	ASN	3.1
31	CA	422	C	3.1
5	BF	133	ASN	3.1
41	CN	128	ALA	3.1
4	BE	50	GLY	3.1
4	BE	116	VAL	3.1
34	CG	26	CYS	3.1
11	BO	10	PRO	3.1
20	BU	77	PRO	3.1
32	DE	48	MET	3.1
33	DF	204	LEU	3.1
34	DG	64	LEU	3.1
39	CL	128	ARG	3.1
28	A6	22	ALA	3.0
34	CG	12	CYS	3.0
33	DF	66	VAL	3.0
37	CJ	154	TYR	3.0
5	BF	68	LYS	3.0
11	BO	109	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
2	BB	88	C	3.0
32	DE	116	GLU	3.0
32	DE	232	PRO	3.0
28	B6	22	ALA	3.0
40	DM	20	ALA	3.0
28	B6	23	THR	3.0
30	B8	54	GLU	3.0
11	BO	56	SER	3.0
32	DE	230	VAL	3.0
20	BU	79	CYS	3.0
4	AE	61	ARG	2.9
22	B3	9	SER	2.9
1	AA	5	A	2.9
33	DF	102	ASN	2.9
4	BE	53	PRO	2.9
32	DE	231	GLU	2.9
32	CE	15	VAL	2.9
8	AK	71	ILE	2.9
22	A3	84	LEU	2.9
6	BG	108	ASN	2.9
40	DM	87	THR	2.9
30	B8	40	GLU	2.9
17	A2	37	VAL	2.9
12	BP	66	ILE	2.9
35	CH	19	MET	2.9
48	DU	42	ARG	2.9
20	BU	92	ASN	2.9
42	DO	40	VAL	2.9
18	AS	91	GLY	2.9
32	DE	57	PHE	2.9
12	AP	64	ILE	2.9
14	AQ	86	ALA	2.9
19	AT	94	GLY	2.9
32	DE	238	LEU	2.9
1	BA	405	U	2.8
31	CA	85	U	2.8
24	AW	5	GLU	2.8
33	DF	80	GLY	2.8
23	AZ	77	ALA	2.8
11	AO	57	THR	2.8
4	AE	203	LYS	2.8
11	BO	106	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
24	AW	43	GLN	2.8
21	BV	83	PRO	2.8
43	DP	8	GLU	2.8
52	DB	87	A	2.8
32	CE	236	TYR	2.8
33	CF	193	TYR	2.8
16	B1	72	HIS	2.8
11	BO	49	ARG	2.8
32	DE	122	PHE	2.8
12	AP	19	GLY	2.8
1	AA	2901	C	2.8
40	DM	32	ALA	2.8
1	BA	2899	G	2.8
7	BH	113	VAL	2.8
19	AT	52	VAL	2.8
25	BX	58	VAL	2.8
4	BE	78	LEU	2.8
40	DM	23	ILE	2.8
32	DE	220	ASP	2.7
4	BE	55	ASN	2.7
20	AU	50	ARG	2.7
1	BA	1963	U	2.7
11	AO	70	GLN	2.7
20	AU	99	CYS	2.7
28	B6	9	LEU	2.7
20	BU	96	ILE	2.7
48	DU	46	GLU	2.7
20	BU	48	ALA	2.7
32	CE	13	ALA	2.7
14	AQ	110	LEU	2.7
54	C1	14	U	2.7
11	BO	110	TYR	2.7
4	AE	68	ALA	2.7
33	CF	189	ALA	2.7
33	DF	64	VAL	2.7
33	DF	207	VAL	2.7
40	DM	94	VAL	2.7
17	B2	71	LEU	2.7
23	AZ	97	LEU	2.7
40	DM	88	LEU	2.7
37	CJ	86	GLN	2.7
24	AW	41	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
15	BR	11	GLU	2.7
37	CJ	78	ARG	2.7
4	AE	64	LYS	2.7
11	BO	103	ALA	2.7
46	CS	84	ALA	2.7
11	AO	27	HIS	2.7
43	CP	111	LYS	2.7
24	AW	40	SER	2.7
21	AV	165	VAL	2.7
33	DF	99	VAL	2.7
40	CM	88	LEU	2.7
27	B5	5	PRO	2.6
9	AM	137	LYS	2.6
1	BA	1509	C	2.6
5	BF	20	LEU	2.6
6	BG	82	LEU	2.6
52	DB	18	G	2.6
41	DN	104	GLN	2.6
7	BH	98	LEU	2.6
20	BU	45	VAL	2.6
1	BA	2901	C	2.6
32	CE	156	LYS	2.6
40	CM	60	ARG	2.6
4	AE	65	GLY	2.6
25	AX	60	GLU	2.6
32	DE	170	GLU	2.6
33	DF	42	LEU	2.6
42	DO	68	ALA	2.6
11	BO	51	PHE	2.6
34	CG	37	PRO	2.6
21	AV	70	LEU	2.6
30	B8	50	LEU	2.6
6	BG	50	ALA	2.6
16	A1	68	ALA	2.6
11	AO	60	MET	2.6
31	CA	1497	G	2.6
7	BH	71	LEU	2.6
32	DE	44	LEU	2.6
48	CU	76	LEU	2.6
32	DE	86	GLU	2.6
24	AW	15	LYS	2.6
28	A6	42	TRP	2.5

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Mol	Chain	Res	Type	RSRZ
19	BT	69	TYR	2.5
7	BH	29	PRO	2.5
32	CE	26	PRO	2.5
41	DN	13	GLN	2.5
5	BF	24	LEU	2.5
31	DA	1032(A)	G	2.5
35	CH	5	ASP	2.5
2	AB	1(M)	A	2.5
19	BT	3	THR	2.5
21	AV	171	ILE	2.5
39	DL	64	THR	2.5
46	DS	48	TRP	2.5
8	AK	134	PRO	2.5
9	AM	11	PRO	2.5
17	B2	12	TYR	2.5
5	BF	12	LEU	2.5
48	CU	44	LEU	2.5
12	AP	91	GLU	2.5
33	CF	122	GLU	2.5
4	AE	77	ILE	2.5
42	CO	90	LEU	2.5
5	BF	208	GLY	2.5
16	B1	73	GLY	2.5
32	CE	14	GLY	2.5
21	AV	153	SER	2.5
32	CE	229	VAL	2.5
32	CE	237	ALA	2.5
42	DO	65	GLU	2.5
11	BO	47	ASP	2.5
20	BU	61	ILE	2.5
40	CM	33	GLN	2.5
1	BA	1	G	2.5
1	BA	34	C	2.5
5	BF	83	PHE	2.5
4	AE	90	THR	2.5
30	B8	34	TRP	2.5
17	B2	68	LYS	2.5
28	A6	27	LYS	2.5
5	BF	25	PRO	2.5
11	BO	100	LEU	2.5
15	AR	6	LEU	2.5
33	DF	88	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
5	AF	207	GLY	2.5
5	BF	207	GLY	2.5
27	B5	54	GLY	2.5
25	AX	59	VAL	2.5
37	DJ	145	ALA	2.4
42	DO	37	CYS	2.4
48	DU	38	GLU	2.4
4	BE	60	ASN	2.4
8	AK	74	ASN	2.4
21	BV	179	ASP	2.4
11	AO	148	LEU	2.4
40	CM	90	LEU	2.4
53	DD	18	C	2.4
48	CU	80	PRO	2.4
7	BH	150	ALA	2.4
11	BO	55	ARG	2.4
17	B2	74	LYS	2.4
4	AE	23	VAL	2.4
32	CE	123	ALA	2.4
44	CQ	2	ALA	2.4
52	DB	17	U	2.4
28	B6	10	LEU	2.4
32	CE	155	LEU	2.4
11	BO	48	PRO	2.4
5	BF	23	ASP	2.4
11	BO	20	GLY	2.4
12	AP	23	GLY	2.4
17	B2	86	GLY	2.4
15	BR	135	ALA	2.4
33	DF	85	ARG	2.4
41	CN	98	LEU	2.4
30	A8	14	VAL	2.4
7	AH	156	ALA	2.4
12	AP	136	ALA	2.4
46	DS	77	ALA	2.4
23	BZ	97	LEU	2.4
42	DO	27	LEU	2.4
52	CB	84	A	2.4
1	AA	163	U	2.4
1	AA	654(I)	C	2.3
33	DF	25	GLY	2.3
15	BR	137	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
16	A1	116	ALA	2.3
32	CE	16	HIS	2.3
32	DE	41	ILE	2.3
1	AA	1933	G	2.3
4	AE	73	GLU	2.3
24	AW	11	GLU	2.3
7	BH	80	SER	2.3
9	AM	129	PRO	2.3
15	BR	12	SER	2.3
48	DU	17	SER	2.3
12	AP	20	ALA	2.3
39	CL	125	TYR	2.3
54	D1	14	U	2.3
32	CE	240	GLN	2.3
12	BP	105	GLU	2.3
33	DF	46	GLU	2.3
4	AE	21	VAL	2.3
7	BH	99	VAL	2.3
44	DQ	25	VAL	2.3
30	A8	52	LYS	2.3
5	BF	172	TRP	2.3
10	BN	42	SER	2.3
19	BT	94	GLY	2.3
32	DE	39	ILE	2.3
27	A5	53	ALA	2.3
1	AA	654(T)	A	2.3
31	CA	87	A	2.3
9	AM	10	GLU	2.3
42	CO	25	LYS	2.3
32	CE	5	ILE	2.3
32	CE	234	PRO	2.3
19	AT	86	GLY	2.3
4	BE	68	ALA	2.3
23	AZ	98	LEU	2.3
34	DG	31	CYS	2.3
20	AU	95	LYS	2.3
28	B6	17	LYS	2.3
28	B6	53	LYS	2.3
32	DE	8	LYS	2.3
1	BA	2900	A	2.3
37	CJ	80	VAL	2.3
31	DA	1533	C	2.3

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Mol	Chain	Res	Type	RSRZ
45	CR	46	HIS	2.3
7	BH	38	SER	2.3
12	BP	104	PHE	2.3
15	AR	2	ASN	2.3
39	DL	127	LYS	2.3
4	AE	76	ARG	2.3
11	BO	65	ARG	2.3
4	AE	72	VAL	2.3
9	AM	55	VAL	2.3
17	B2	79	VAL	2.3
20	AU	51	VAL	2.3
32	CE	128	GLU	2.2
30	A8	48	PHE	2.2
39	DL	27	THR	2.2
40	DM	100	THR	2.2
17	B2	97	LYS	2.2
20	BU	33	LYS	2.2
32	CE	114	ARG	2.2
7	BH	115	VAL	2.2
11	BO	68	GLN	2.2
26	A4	39	CYS	2.2
42	CO	40	VAL	2.2
4	AE	200	GLU	2.2
44	CQ	8	GLU	2.2
48	DU	83	GLU	2.2
11	BO	59	LEU	2.2
18	AS	112	GLY	2.2
19	AT	92	LEU	2.2
49	CV	84	GLY	2.2
1	AA	654(L)	G	2.2
28	B6	33	LYS	2.2
33	CF	79	ARG	2.2
1	AA	1829	A	2.2
41	CN	93	GLN	2.2
12	BP	80	GLU	2.2
4	BE	204	ALA	2.2
5	AF	66	PRO	2.2
9	BM	47	ALA	2.2
19	BT	91	ALA	2.2
30	B8	51	ALA	2.2
32	CE	11	LEU	2.2
37	CJ	152	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
7	AH	83	TYR	2.2
39	CL	114	TYR	2.2
15	AR	12	SER	2.2
31	CA	1498	U	2.2
46	DS	76	GLN	2.2
1	BA	406	G	2.2
31	DA	1483	A	2.2
18	BS	93	ALA	2.2
20	BU	59	GLY	2.2
32	DE	237	ALA	2.2
35	CH	44	GLY	2.2
31	CA	345	C	2.2
19	AT	3	THR	2.2
28	B6	14	THR	2.2
4	BE	75	VAL	2.2
5	BF	4	VAL	2.2
5	BF	7	TYR	2.2
42	DO	39	VAL	2.2
8	AK	143	SER	2.2
8	BK	17	GLN	2.2
17	B2	80	GLN	2.2
32	CE	214	ILE	2.2
32	DE	233	SER	2.2
8	AK	117	GLU	2.2
8	AK	122	GLU	2.2
11	BO	98	GLU	2.2
15	AR	11	GLU	2.2
28	B6	24	GLU	2.2
4	AE	53	PRO	2.2
23	BZ	3	LYS	2.2
23	BZ	36	GLY	2.2
31	CA	793	U	2.2
41	CN	81	ASP	2.2
31	CA	1417	G	2.2
7	BH	76	VAL	2.1
27	A5	52	TYR	2.1
17	B2	76	LYS	2.1
5	BF	5	ALA	2.1
32	CE	235	SER	2.1
15	AR	21	GLU	2.1
16	A1	118	GLY	2.1
17	B2	50	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
20	BU	102	CYS	2.1
52	CB	17	U	2.1
14	AQ	7	TYR	2.1
31	CA	1492	A	2.1
32	DE	33	TYR	2.1
40	CM	98	ILE	2.1
15	BR	105	LEU	2.1
21	AV	98	MET	2.1
11	AO	150	ALA	2.1
20	BU	78	ALA	2.1
21	AV	79	ARG	2.1
3	BD	30	GLU	2.1
1	BA	2798	C	2.1
5	BF	14	PRO	2.1
6	BG	142	PRO	2.1
17	A2	16	PRO	2.1
53	DC	1	C	2.1
4	AE	60	ASN	2.1
32	DE	17	PHE	2.1
12	AP	27	VAL	2.1
17	B2	46	VAL	2.1
3	BD	64	ILE	2.1
32	DE	138	LEU	2.1
41	CN	21	ILE	2.1
22	B3	85	ALA	2.1
40	CM	54	PHE	2.1
41	DN	129	SER	2.1
53	CC	1	C	2.1
4	AE	57	LYS	2.1
8	AK	116	LEU	2.1
14	BQ	56	LEU	2.1
28	B6	46	HIS	2.1
32	CE	138	LEU	2.1
43	DP	88	ARG	2.1
27	A5	51	TYR	2.1
37	CJ	151	TYR	2.1
48	DU	82	THR	2.1
5	BF	1	MET	2.1
40	CM	26	ALA	2.1
1	AA	165	U	2.1
4	BE	54	GLN	2.1
9	AM	36	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
12	BP	23	GLY	2.1
17	B2	41	GLY	2.1
17	B2	29	PRO	2.1
21	AV	52	SER	2.1
24	AW	4	SER	2.1
44	CQ	25	VAL	2.1
5	BF	160	ASN	2.1
6	AG	88	ILE	2.1
9	AM	15	LEU	2.1
11	BO	79	ARG	2.1
23	BZ	18	ILE	2.1
4	AE	24	THR	2.1
28	A6	21	TYR	2.1
30	A8	51	ALA	2.1
31	DA	1412	C	2.1
1	BA	2112	G	2.1
12	AP	33	GLY	2.1
12	BP	91	GLU	2.1
20	BU	89	PHE	2.1
32	DE	70	PHE	2.1
33	DF	109	PRO	2.1
5	BF	137	LYS	2.0
17	B2	19	LYS	2.0
31	CA	1126	U	2.0
15	BR	55	ASN	2.0
33	DF	101	LEU	2.0
36	CI	48	LEU	2.0
39	DL	50	LEU	2.0
1	BA	2602	A	2.0
13	A0	109	ALA	2.0
4	BE	130	GLY	2.0
7	AH	5	GLY	2.0
12	BP	65	PHE	2.0
30	B8	48	PHE	2.0
23	BZ	96	LYS	2.0
41	CN	127	LYS	2.0
4	AE	63	LEU	2.0
32	CE	158	LEU	2.0
32	CE	222	ILE	2.0
31	CA	1196	U	2.0
28	A6	46	HIS	2.0
14	BQ	88	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
32	DE	60	ASP	2.0
15	BR	22	PHE	2.0
41	DN	49	GLY	2.0
9	AM	131	GLN	2.0
32	CE	125	PRO	2.0
1	BA	2126	A	2.0
28	A6	12	GLU	2.0
31	CA	1394	A	2.0
32	CE	136	VAL	2.0
32	DE	117	GLU	2.0
36	CI	9	VAL	2.0
52	CB	51	A	2.0
17	B2	83	ARG	2.0
32	DE	11	LEU	2.0
21	BV	53	ILE	2.0
40	DM	98	ILE	2.0
1	BA	654(K)	C	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	CA	1779	1/1	0.37	0.10	113,113,113,113	0
55	MG	BA	3407	1/1	0.41	0.26	96,96,96,96	0
55	MG	BA	3420	1/1	0.43	0.15	136,136,136,136	0
55	MG	BA	3277	1/1	0.44	0.26	109,109,109,109	0
55	MG	AA	3437	1/1	0.46	0.24	122,122,122,122	0
55	MG	AA	3224	1/1	0.47	0.35	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	DA	1740	1/1	0.47	0.17	113,113,113,113	0
55	MG	DA	1703	1/1	0.48	0.19	115,115,115,115	0
55	MG	CA	1728	1/1	0.48	0.17	117,117,117,117	0
55	MG	CB	104	1/1	0.50	0.22	101,101,101,101	0
55	MG	AA	3422	1/1	0.50	0.31	106,106,106,106	0
55	MG	CG	302	1/1	0.50	0.26	122,122,122,122	0
55	MG	AA	3433	1/1	0.51	0.14	152,152,152,152	0
55	MG	BA	3337	1/1	0.51	0.31	100,100,100,100	0
55	MG	DA	1804	1/1	0.51	0.24	123,123,123,123	0
55	MG	CA	1823	1/1	0.53	0.15	110,110,110,110	0
55	MG	AA	3407	1/1	0.53	0.22	110,110,110,110	0
55	MG	AA	3393	1/1	0.53	0.16	98,98,98,98	0
55	MG	CC	101	1/1	0.55	0.18	108,108,108,108	0
55	MG	CA	1704	1/1	0.55	0.21	113,113,113,113	0
55	MG	CB	101	1/1	0.55	0.13	108,108,108,108	0
55	MG	AA	3620	1/1	0.55	0.19	115,115,115,115	0
55	MG	AB	214	1/1	0.56	0.18	102,102,102,102	0
55	MG	CA	1720	1/1	0.56	0.18	102,102,102,102	0
55	MG	CA	1714	1/1	0.57	0.24	118,118,118,118	0
55	MG	AA	3373	1/1	0.57	0.27	106,106,106,106	0
55	MG	BA	3402	1/1	0.58	0.12	95,95,95,95	0
55	MG	BA	3472	1/1	0.58	0.36	83,83,83,83	0
55	MG	CA	1614	1/1	0.58	0.21	101,101,101,101	0
55	MG	DA	1794	1/1	0.58	0.16	91,91,91,91	0
55	MG	AA	3325	1/1	0.58	0.27	100,100,100,100	0
55	MG	BA	3095	1/1	0.59	0.29	112,112,112,112	0
55	MG	DA	1784	1/1	0.59	0.17	103,103,103,103	0
55	MG	BA	3401	1/1	0.59	0.13	100,100,100,100	0
55	MG	BA	3050	1/1	0.59	0.12	103,103,103,103	0
55	MG	BA	3459	1/1	0.60	0.12	115,115,115,115	0
55	MG	AA	3626	1/1	0.60	0.24	96,96,96,96	0
55	MG	DA	1630	1/1	0.60	0.28	102,102,102,102	0
55	MG	BA	3384	1/1	0.60	0.30	92,92,92,92	0
55	MG	CA	1672	1/1	0.60	0.18	106,106,106,106	0
55	MG	CA	1828	1/1	0.60	0.28	98,98,98,98	0
55	MG	DA	1793	1/1	0.60	0.33	108,108,108,108	0
55	MG	BA	3313	1/1	0.60	0.13	106,106,106,106	0
55	MG	BA	3446	1/1	0.60	0.20	98,98,98,98	0
55	MG	CA	1767	1/1	0.61	0.16	120,120,120,120	0
55	MG	BA	3507	1/1	0.61	0.34	102,102,102,102	0
55	MG	BA	3151	1/1	0.61	0.33	96,96,96,96	0
55	MG	BA	3301	1/1	0.61	0.34	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	CA	1701	1/1	0.61	0.14	105,105,105,105	0
55	MG	AA	3601	1/1	0.62	0.21	86,86,86,86	0
55	MG	DA	1713	1/1	0.62	0.23	111,111,111,111	0
55	MG	DA	1718	1/1	0.62	0.21	132,132,132,132	0
55	MG	DA	1719	1/1	0.62	0.23	112,112,112,112	0
55	MG	AA	3391	1/1	0.62	0.07	106,106,106,106	0
55	MG	CA	1753	1/1	0.62	0.11	107,107,107,107	0
55	MG	BA	3371	1/1	0.62	0.19	129,129,129,129	0
55	MG	AA	3197	1/1	0.62	0.28	74,74,74,74	0
55	MG	BB	212	1/1	0.62	0.17	104,104,104,104	0
55	MG	DA	1666	1/1	0.63	0.12	115,115,115,115	0
55	MG	CA	1694	1/1	0.63	0.10	104,104,104,104	0
55	MG	AA	3097	1/1	0.63	0.20	106,106,106,106	0
55	MG	CA	1615	1/1	0.63	0.30	104,104,104,104	0
55	MG	AA	3594	1/1	0.63	0.24	105,105,105,105	0
55	MG	CA	1783	1/1	0.64	0.13	106,106,106,106	0
55	MG	AA	3370	1/1	0.64	0.10	106,106,106,106	0
55	MG	DA	1766	1/1	0.64	0.27	116,116,116,116	0
55	MG	BA	3525	1/1	0.64	0.34	98,98,98,98	0
55	MG	BA	3332	1/1	0.64	0.23	100,100,100,100	0
55	MG	BA	3463	1/1	0.64	0.31	114,114,114,114	0
55	MG	AA	3509	1/1	0.64	0.25	95,95,95,95	0
55	MG	DC	107	1/1	0.64	0.12	105,105,105,105	0
55	MG	AA	3497	1/1	0.65	0.29	95,95,95,95	0
55	MG	CA	1684	1/1	0.65	0.16	101,101,101,101	0
55	MG	DA	1771	1/1	0.65	0.16	114,114,114,114	0
55	MG	BA	3519	1/1	0.65	0.23	107,107,107,107	0
55	MG	CA	1825	1/1	0.66	0.19	114,114,114,114	0
55	MG	BA	3435	1/1	0.66	0.21	108,108,108,108	0
55	MG	BA	3164	1/1	0.66	0.10	99,99,99,99	0
55	MG	AE	304	1/1	0.66	0.26	87,87,87,87	0
55	MG	BA	3036	1/1	0.66	0.28	85,85,85,85	0
55	MG	CA	1630	1/1	0.66	0.18	112,112,112,112	0
55	MG	BA	3464	1/1	0.66	0.17	104,104,104,104	0
55	MG	AA	3221	1/1	0.66	0.25	47,47,47,47	0
55	MG	AA	3441	1/1	0.66	0.09	101,101,101,101	0
55	MG	AA	3193	1/1	0.66	0.22	96,96,96,96	0
55	MG	AA	3273	1/1	0.67	0.20	101,101,101,101	0
55	MG	BA	3104	1/1	0.67	0.24	115,115,115,115	0
55	MG	AA	3075	1/1	0.67	0.32	85,85,85,85	0
55	MG	AA	3354	1/1	0.67	0.21	84,84,84,84	0
55	MG	AA	3191	1/1	0.67	0.19	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3469	1/1	0.67	0.34	103,103,103,103	0
55	MG	CA	1692	1/1	0.67	0.12	127,127,127,127	0
55	MG	CA	1765	1/1	0.67	0.21	109,109,109,109	0
55	MG	BB	210	1/1	0.68	0.16	96,96,96,96	0
55	MG	AA	3209	1/1	0.68	0.22	81,81,81,81	0
55	MG	BB	214	1/1	0.68	0.15	99,99,99,99	0
55	MG	AA	3253	1/1	0.68	0.26	81,81,81,81	0
55	MG	CA	1715	1/1	0.68	0.19	115,115,115,115	0
55	MG	DA	1746	1/1	0.68	0.18	104,104,104,104	0
55	MG	DA	1751	1/1	0.68	0.21	124,124,124,124	0
55	MG	CA	1832	1/1	0.68	0.28	106,106,106,106	0
55	MG	BA	3494	1/1	0.68	0.30	88,88,88,88	0
55	MG	BA	3107	1/1	0.68	0.26	89,89,89,89	0
55	MG	CA	1735	1/1	0.68	0.20	101,101,101,101	0
55	MG	AA	3260	1/1	0.68	0.25	91,91,91,91	0
55	MG	BA	3520	1/1	0.68	0.25	101,101,101,101	0
55	MG	AA	3362	1/1	0.68	0.16	89,89,89,89	0
55	MG	BA	3470	1/1	0.69	0.17	81,81,81,81	0
55	MG	DA	1728	1/1	0.69	0.20	112,112,112,112	0
55	MG	BA	3349	1/1	0.69	0.23	93,93,93,93	0
55	MG	AA	3604	1/1	0.69	0.24	93,93,93,93	0
55	MG	AA	3231	1/1	0.69	0.20	106,106,106,106	0
55	MG	DA	1626	1/1	0.69	0.25	104,104,104,104	0
55	MG	BA	3118	1/1	0.69	0.24	110,110,110,110	0
55	MG	BA	3460	1/1	0.69	0.09	101,101,101,101	0
55	MG	DA	1702	1/1	0.69	0.17	99,99,99,99	0
55	MG	AA	3295	1/1	0.69	0.30	102,102,102,102	0
55	MG	DA	1802	1/1	0.69	0.20	102,102,102,102	0
55	MG	AA	3409	1/1	0.69	0.18	104,104,104,104	0
55	MG	CA	1736	1/1	0.69	0.26	88,88,88,88	0
55	MG	BA	3317	1/1	0.70	0.30	91,91,91,91	0
55	MG	BA	3090	1/1	0.70	0.19	109,109,109,109	0
55	MG	CA	1621	1/1	0.70	0.33	107,107,107,107	0
55	MG	AA	3361	1/1	0.70	0.17	93,93,93,93	0
55	MG	AA	3498	1/1	0.70	0.28	95,95,95,95	0
55	MG	AA	3446	1/1	0.70	0.17	93,93,93,93	0
55	MG	CA	1810	1/1	0.70	0.24	108,108,108,108	0
55	MG	BA	3116	1/1	0.70	0.21	107,107,107,107	0
55	MG	AA	3524	1/1	0.70	0.21	94,94,94,94	0
55	MG	AA	3454	1/1	0.70	0.27	94,94,94,94	0
55	MG	BA	3156	1/1	0.70	0.31	87,87,87,87	0
55	MG	BA	3021	1/1	0.70	0.16	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BB	206	1/1	0.70	0.10	102,102,102,102	0
55	MG	CA	1716	1/1	0.70	0.24	117,117,117,117	0
55	MG	AA	3599	1/1	0.70	0.33	87,87,87,87	0
55	MG	DA	1605	1/1	0.70	0.32	82,82,82,82	0
55	MG	AA	3432	1/1	0.70	0.15	87,87,87,87	0
55	MG	BA	3081	1/1	0.70	0.14	91,91,91,91	0
55	MG	AA	3385	1/1	0.71	0.24	88,88,88,88	0
55	MG	DA	1657	1/1	0.71	0.28	95,95,95,95	0
55	MG	BA	3398	1/1	0.71	0.15	96,96,96,96	0
55	MG	CA	1759	1/1	0.71	0.26	117,117,117,117	0
55	MG	CA	1647	1/1	0.71	0.19	92,92,92,92	0
55	MG	AA	3414	1/1	0.71	0.22	94,94,94,94	0
55	MG	CA	1683	1/1	0.71	0.18	104,104,104,104	0
55	MG	AA	3235	1/1	0.71	0.18	84,84,84,84	0
55	MG	BA	3075	1/1	0.71	0.18	99,99,99,99	0
55	MG	AA	3466	1/1	0.71	0.28	100,100,100,100	0
55	MG	BA	3429	1/1	0.71	0.13	95,95,95,95	0
55	MG	AA	3425	1/1	0.71	0.31	94,94,94,94	0
55	MG	AA	3481	1/1	0.71	0.21	112,112,112,112	0
55	MG	AA	3237	1/1	0.71	0.27	83,83,83,83	0
55	MG	AA	3396	1/1	0.71	0.30	104,104,104,104	0
55	MG	BB	215	1/1	0.71	0.10	101,101,101,101	0
55	MG	AB	216	1/1	0.71	0.22	106,106,106,106	0
55	MG	CD	101	1/1	0.71	0.09	105,105,105,105	0
55	MG	CA	1731	1/1	0.71	0.24	98,98,98,98	0
55	MG	AA	3104	1/1	0.71	0.17	80,80,80,80	0
55	MG	AA	3421	1/1	0.72	0.17	94,94,94,94	0
55	MG	AA	3587	1/1	0.72	0.32	77,77,77,77	0
55	MG	DA	1604	1/1	0.72	0.18	92,92,92,92	0
55	MG	BA	3334	1/1	0.72	0.10	103,103,103,103	0
55	MG	AA	3357	1/1	0.72	0.17	99,99,99,99	0
55	MG	DA	1762	1/1	0.72	0.17	109,109,109,109	0
55	MG	AA	3439	1/1	0.72	0.16	97,97,97,97	0
55	MG	DA	1741	1/1	0.73	0.26	93,93,93,93	0
55	MG	CA	1628	1/1	0.73	0.31	85,85,85,85	0
55	MG	AA	3412	1/1	0.73	0.17	110,110,110,110	0
55	MG	DA	1795	1/1	0.73	0.19	101,101,101,101	0
55	MG	AA	3461	1/1	0.73	0.22	105,105,105,105	0
55	MG	CA	1766	1/1	0.73	0.30	108,108,108,108	0
55	MG	DC	106	1/1	0.73	0.20	111,111,111,111	0
55	MG	CA	1750	1/1	0.73	0.27	104,104,104,104	0
55	MG	AA	3369	1/1	0.74	0.33	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3172	1/1	0.74	0.20	85,85,85,85	0
55	MG	BA	3174	1/1	0.74	0.29	82,82,82,82	0
55	MG	BA	3273	1/1	0.74	0.27	102,102,102,102	0
55	MG	CA	1745	1/1	0.74	0.29	95,95,95,95	0
55	MG	AA	3043	1/1	0.74	0.23	108,108,108,108	0
55	MG	BA	3281	1/1	0.74	0.22	92,92,92,92	0
55	MG	BA	3282	1/1	0.74	0.24	93,93,93,93	0
55	MG	AA	3115	1/1	0.74	0.34	70,70,70,70	0
55	MG	AA	3132	1/1	0.74	0.31	106,106,106,106	0
55	MG	AA	3307	1/1	0.74	0.34	76,76,76,76	0
55	MG	BA	3331	1/1	0.74	0.12	101,101,101,101	0
55	MG	CA	1679	1/1	0.74	0.24	101,101,101,101	0
55	MG	AA	3184	1/1	0.74	0.10	94,94,94,94	0
55	MG	BA	3469	1/1	0.74	0.27	92,92,92,92	0
55	MG	AA	3078	1/1	0.74	0.28	88,88,88,88	0
55	MG	AA	3067	1/1	0.74	0.28	108,108,108,108	0
55	MG	AA	3242	1/1	0.74	0.10	93,93,93,93	0
55	MG	CA	1838	1/1	0.74	0.25	103,103,103,103	0
55	MG	BA	3363	1/1	0.74	0.22	88,88,88,88	0
55	MG	CQ	101	1/1	0.74	0.22	102,102,102,102	0
55	MG	AA	3556	1/1	0.74	0.33	96,96,96,96	0
55	MG	BA	3374	1/1	0.74	0.28	86,86,86,86	0
55	MG	AA	3103	1/1	0.74	0.28	97,97,97,97	0
55	MG	BA	3389	1/1	0.74	0.10	96,96,96,96	0
55	MG	CA	1724	1/1	0.74	0.24	97,97,97,97	0
55	MG	CA	1748	1/1	0.75	0.20	87,87,87,87	0
55	MG	AA	3521	1/1	0.75	0.22	75,75,75,75	0
55	MG	BA	3416	1/1	0.75	0.28	103,103,103,103	0
55	MG	CA	1754	1/1	0.75	0.23	114,114,114,114	0
55	MG	AA	3102	1/1	0.75	0.18	90,90,90,90	0
55	MG	BA	3502	1/1	0.75	0.10	91,91,91,91	0
55	MG	AA	3480	1/1	0.75	0.28	86,86,86,86	0
55	MG	BA	3078	1/1	0.75	0.14	95,95,95,95	0
55	MG	DA	1756	1/1	0.75	0.33	106,106,106,106	0
55	MG	AA	3413	1/1	0.75	0.18	109,109,109,109	0
55	MG	DA	1606	1/1	0.75	0.18	95,95,95,95	0
55	MG	DA	1767	1/1	0.75	0.25	113,113,113,113	0
55	MG	AA	3381	1/1	0.75	0.27	90,90,90,90	0
55	MG	DA	1774	1/1	0.75	0.23	103,103,103,103	0
55	MG	CA	1677	1/1	0.75	0.13	90,90,90,90	0
55	MG	DA	1637	1/1	0.75	0.23	97,97,97,97	0
55	MG	AA	3050	1/1	0.75	0.39	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3120	1/1	0.75	0.17	86,86,86,86	0
55	MG	DA	1681	1/1	0.75	0.18	106,106,106,106	0
55	MG	DA	1698	1/1	0.75	0.16	103,103,103,103	0
55	MG	BA	3175	1/1	0.75	0.12	100,100,100,100	0
55	MG	BA	3193	1/1	0.75	0.18	102,102,102,102	0
55	MG	CA	1711	1/1	0.76	0.17	98,98,98,98	0
55	MG	BA	3019	1/1	0.76	0.12	100,100,100,100	0
55	MG	DA	1717	1/1	0.76	0.17	103,103,103,103	0
55	MG	BA	3352	1/1	0.76	0.26	102,102,102,102	0
55	MG	BA	3450	1/1	0.76	0.25	99,99,99,99	0
55	MG	DA	1720	1/1	0.76	0.20	96,96,96,96	0
55	MG	BA	3454	1/1	0.76	0.27	105,105,105,105	0
55	MG	DA	1738	1/1	0.76	0.26	85,85,85,85	0
55	MG	BR	202	1/1	0.76	0.14	105,105,105,105	0
55	MG	CA	1607	1/1	0.76	0.21	93,93,93,93	0
55	MG	AA	3348	1/1	0.76	0.12	94,94,94,94	0
55	MG	BA	3108	1/1	0.76	0.34	99,99,99,99	0
55	MG	AA	3319	1/1	0.76	0.23	94,94,94,94	0
55	MG	AA	3366	1/1	0.76	0.21	92,92,92,92	0
55	MG	BA	3387	1/1	0.76	0.27	107,107,107,107	0
55	MG	BA	3293	1/1	0.76	0.15	96,96,96,96	0
55	MG	BA	3148	1/1	0.76	0.26	91,91,91,91	0
55	MG	AA	3490	1/1	0.76	0.28	97,97,97,97	0
55	MG	AA	3164	1/1	0.76	0.24	95,95,95,95	0
55	MG	DA	1636	1/1	0.76	0.17	103,103,103,103	0
55	MG	AA	3390	1/1	0.76	0.13	109,109,109,109	0
55	MG	AA	3506	1/1	0.76	0.10	80,80,80,80	0
55	MG	DA	1798	1/1	0.76	0.19	92,92,92,92	0
55	MG	BA	3094	1/1	0.76	0.33	79,79,79,79	0
55	MG	BA	3521	1/1	0.76	0.31	79,79,79,79	0
55	MG	BA	3422	1/1	0.76	0.13	102,102,102,102	0
55	MG	BA	3003	1/1	0.76	0.28	99,99,99,99	0
55	MG	BA	3471	1/1	0.77	0.32	96,96,96,96	0
55	MG	CA	1693	1/1	0.77	0.16	102,102,102,102	0
55	MG	BA	3163	1/1	0.77	0.27	84,84,84,84	0
55	MG	CB	105	1/1	0.77	0.14	113,113,113,113	0
55	MG	BA	3438	1/1	0.77	0.09	88,88,88,88	0
55	MG	CC	107	1/1	0.77	0.12	93,93,93,93	0
55	MG	BA	3445	1/1	0.77	0.09	95,95,95,95	0
55	MG	AA	3402	1/1	0.77	0.14	92,92,92,92	0
55	MG	DA	1745	1/1	0.77	0.23	106,106,106,106	0
55	MG	AA	3347	1/1	0.77	0.15	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	DA	1747	1/1	0.77	0.20	105,105,105,105	0
55	MG	BA	3044	1/1	0.77	0.37	104,104,104,104	0
55	MG	DA	1754	1/1	0.77	0.16	98,98,98,98	0
55	MG	CA	1773	1/1	0.77	0.17	101,101,101,101	0
55	MG	AA	3328	1/1	0.77	0.27	82,82,82,82	0
55	MG	CA	1718	1/1	0.77	0.09	93,93,93,93	0
55	MG	BA	3523	1/1	0.77	0.30	84,84,84,84	0
55	MG	CA	1649	1/1	0.77	0.23	86,86,86,86	0
55	MG	DA	1664	1/1	0.77	0.11	97,97,97,97	0
55	MG	AA	3359	1/1	0.77	0.15	84,84,84,84	0
55	MG	DA	1787	1/1	0.77	0.18	114,114,114,114	0
55	MG	BA	3329	1/1	0.77	0.15	66,66,66,66	0
55	MG	DA	1688	1/1	0.77	0.16	99,99,99,99	0
55	MG	AA	3456	1/1	0.77	0.32	91,91,91,91	0
55	MG	CA	1834	1/1	0.77	0.19	90,90,90,90	0
55	MG	BA	3157	1/1	0.77	0.28	93,93,93,93	0
55	MG	DA	1712	1/1	0.77	0.23	100,100,100,100	0
55	MG	BA	3434	1/1	0.77	0.31	90,90,90,90	0
55	MG	DA	1716	1/1	0.77	0.23	105,105,105,105	0
55	MG	DC	108	1/1	0.77	0.12	102,102,102,102	0
55	MG	BA	3032	1/1	0.78	0.26	110,110,110,110	0
55	MG	BA	3397	1/1	0.78	0.39	96,96,96,96	0
55	MG	AA	3502	1/1	0.78	0.31	96,96,96,96	0
55	MG	BA	3043	1/1	0.78	0.37	108,108,108,108	0
55	MG	BA	3462	1/1	0.78	0.15	123,123,123,123	0
55	MG	DA	1601	1/1	0.78	0.21	107,107,107,107	0
55	MG	BA	3279	1/1	0.78	0.30	73,73,73,73	0
55	MG	AA	3397	1/1	0.78	0.29	95,95,95,95	0
55	MG	BA	3465	1/1	0.78	0.14	97,97,97,97	0
55	MG	BA	3468	1/1	0.78	0.19	105,105,105,105	0
55	MG	CA	1709	1/1	0.78	0.22	96,96,96,96	0
55	MG	DA	1631	1/1	0.78	0.28	102,102,102,102	0
55	MG	BA	3098	1/1	0.78	0.08	106,106,106,106	0
55	MG	BA	3359	1/1	0.78	0.25	98,98,98,98	0
55	MG	DA	1656	1/1	0.78	0.26	99,99,99,99	0
55	MG	CA	1794	1/1	0.78	0.21	106,106,106,106	0
55	MG	DA	1663	1/1	0.78	0.18	103,103,103,103	0
55	MG	AA	3463	1/1	0.78	0.21	90,90,90,90	0
55	MG	BA	3064	1/1	0.78	0.16	103,103,103,103	0
55	MG	DA	1678	1/1	0.78	0.19	86,86,86,86	0
55	MG	BA	3372	1/1	0.78	0.30	105,105,105,105	0
55	MG	DA	1683	1/1	0.78	0.30	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	DA	1684	1/1	0.78	0.21	92,92,92,92	0
55	MG	AA	3513	1/1	0.78	0.28	83,83,83,83	0
55	MG	CA	1637	1/1	0.78	0.15	106,106,106,106	0
55	MG	BA	3114	1/1	0.78	0.15	103,103,103,103	0
55	MG	CA	1729	1/1	0.78	0.14	94,94,94,94	0
55	MG	BA	3386	1/1	0.78	0.27	81,81,81,81	0
55	MG	CA	1661	1/1	0.78	0.14	52,52,52,52	0
55	MG	AA	3087	1/1	0.78	0.34	76,76,76,76	0
55	MG	DA	1714	1/1	0.79	0.29	105,105,105,105	0
55	MG	AA	3624	1/1	0.79	0.31	111,111,111,111	0
55	MG	BA	3357	1/1	0.79	0.22	71,71,71,71	0
55	MG	BA	3414	1/1	0.79	0.17	92,92,92,92	0
55	MG	CA	1698	1/1	0.79	0.14	89,89,89,89	0
55	MG	CA	1762	1/1	0.79	0.15	89,89,89,89	0
55	MG	BA	3294	1/1	0.79	0.19	98,98,98,98	0
55	MG	BA	3027	1/1	0.79	0.16	107,107,107,107	0
55	MG	BA	3368	1/1	0.79	0.21	106,106,106,106	0
55	MG	DA	1625	1/1	0.79	0.13	105,105,105,105	0
55	MG	CA	1768	1/1	0.79	0.19	105,105,105,105	0
55	MG	BA	3303	1/1	0.79	0.27	89,89,89,89	0
55	MG	CA	1778	1/1	0.79	0.33	95,95,95,95	0
55	MG	AA	3448	1/1	0.79	0.24	106,106,106,106	0
55	MG	AA	3453	1/1	0.79	0.18	95,95,95,95	0
55	MG	DA	1642	1/1	0.79	0.22	110,110,110,110	0
55	MG	CA	1787	1/1	0.79	0.15	100,100,100,100	0
55	MG	BA	3121	1/1	0.79	0.34	99,99,99,99	0
55	MG	DA	1661	1/1	0.79	0.20	98,98,98,98	0
55	MG	AA	3356	1/1	0.79	0.20	86,86,86,86	0
55	MG	CA	1815	1/1	0.79	0.23	91,91,91,91	0
55	MG	DA	1783	1/1	0.79	0.21	86,86,86,86	0
55	MG	AA	3185	1/1	0.79	0.21	88,88,88,88	0
55	MG	BA	3447	1/1	0.79	0.24	100,100,100,100	0
55	MG	CA	1653	1/1	0.79	0.21	91,91,91,91	0
55	MG	CA	1829	1/1	0.79	0.15	102,102,102,102	0
55	MG	AA	3548	1/1	0.79	0.16	54,54,54,54	0
55	MG	BA	3396	1/1	0.79	0.28	91,91,91,91	0
55	MG	BA	3058	1/1	0.79	0.33	89,89,89,89	0
55	MG	BA	3340	1/1	0.79	0.12	84,84,84,84	0
55	MG	CA	1737	1/1	0.79	0.12	92,92,92,92	0
55	MG	BB	208	1/1	0.79	0.26	107,107,107,107	0
55	MG	AA	3416	1/1	0.79	0.18	95,95,95,95	0
55	MG	AA	3526	1/1	0.80	0.32	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3355	1/1	0.80	0.36	87,87,87,87	0
55	MG	AB	211	1/1	0.80	0.22	100,100,100,100	0
55	MG	CA	1788	1/1	0.80	0.18	105,105,105,105	0
55	MG	CA	1793	1/1	0.80	0.12	96,96,96,96	0
55	MG	AA	3479	1/1	0.80	0.13	94,94,94,94	0
55	MG	DA	1757	1/1	0.80	0.20	104,104,104,104	0
55	MG	DA	1760	1/1	0.80	0.22	100,100,100,100	0
55	MG	DA	1603	1/1	0.80	0.27	89,89,89,89	0
55	MG	DA	1763	1/1	0.80	0.32	89,89,89,89	0
55	MG	CA	1804	1/1	0.80	0.10	107,107,107,107	0
55	MG	AA	3327	1/1	0.80	0.27	84,84,84,84	0
55	MG	DA	1769	1/1	0.80	0.20	79,79,79,79	0
55	MG	AA	3367	1/1	0.80	0.32	87,87,87,87	0
55	MG	AA	3289	1/1	0.80	0.31	84,84,84,84	0
55	MG	BA	3304	1/1	0.80	0.20	91,91,91,91	0
55	MG	BB	209	1/1	0.80	0.15	95,95,95,95	0
55	MG	BA	3373	1/1	0.80	0.24	88,88,88,88	0
55	MG	CA	1831	1/1	0.80	0.23	105,105,105,105	0
55	MG	BA	3408	1/1	0.80	0.31	88,88,88,88	0
55	MG	BB	213	1/1	0.80	0.09	97,97,97,97	0
55	MG	DA	1650	1/1	0.80	0.26	95,95,95,95	0
55	MG	BA	3474	1/1	0.80	0.20	88,88,88,88	0
55	MG	BA	3346	1/1	0.80	0.24	99,99,99,99	0
55	MG	DB	102	1/1	0.80	0.06	107,107,107,107	0
55	MG	DA	1739	1/1	0.80	0.11	113,113,113,113	0
55	MG	BA	3170	1/1	0.80	0.10	96,96,96,96	0
55	MG	BA	3503	1/1	0.80	0.14	69,69,69,69	0
55	MG	AA	3468	1/1	0.81	0.10	95,95,95,95	0
55	MG	DA	1715	1/1	0.81	0.19	92,92,92,92	0
55	MG	AA	3236	1/1	0.81	0.33	96,96,96,96	0
55	MG	BA	3415	1/1	0.81	0.18	109,109,109,109	0
55	MG	AA	3118	1/1	0.81	0.25	87,87,87,87	0
55	MG	AA	3096	1/1	0.81	0.16	89,89,89,89	0
55	MG	CA	1755	1/1	0.81	0.13	81,81,81,81	0
55	MG	DA	1725	1/1	0.81	0.29	96,96,96,96	0
55	MG	AA	3309	1/1	0.81	0.47	90,90,90,90	0
55	MG	BA	3423	1/1	0.81	0.19	91,91,91,91	0
55	MG	AA	3398	1/1	0.81	0.13	73,73,73,73	0
55	MG	CA	1685	1/1	0.81	0.15	103,103,103,103	0
55	MG	CA	1687	1/1	0.81	0.20	78,78,78,78	0
55	MG	DA	1743	1/1	0.81	0.21	94,94,94,94	0
55	MG	DA	1613	1/1	0.81	0.25	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	DA	1620	1/1	0.81	0.26	85,85,85,85	0
55	MG	DA	1623	1/1	0.81	0.16	96,96,96,96	0
55	MG	CA	1689	1/1	0.81	0.14	115,115,115,115	0
55	MG	AA	3126	1/1	0.81	0.19	83,83,83,83	0
55	MG	DA	1628	1/1	0.81	0.16	97,97,97,97	0
55	MG	CA	1775	1/1	0.81	0.10	113,113,113,113	0
55	MG	AA	3445	1/1	0.81	0.25	95,95,95,95	0
55	MG	AA	3079	1/1	0.81	0.10	92,92,92,92	0
55	MG	AA	3264	1/1	0.81	0.24	80,80,80,80	0
55	MG	AA	3508	1/1	0.81	0.21	101,101,101,101	0
55	MG	BA	3099	1/1	0.81	0.07	98,98,98,98	0
55	MG	BA	3101	1/1	0.81	0.12	94,94,94,94	0
55	MG	AA	3271	1/1	0.81	0.17	92,92,92,92	0
55	MG	AO	201	1/1	0.81	0.32	65,65,65,65	0
55	MG	DA	1775	1/1	0.81	0.21	102,102,102,102	0
55	MG	AA	3333	1/1	0.81	0.27	95,95,95,95	0
55	MG	AA	3345	1/1	0.81	0.33	93,93,93,93	0
55	MG	BA	3020	1/1	0.81	0.23	76,76,76,76	0
55	MG	AA	3460	1/1	0.81	0.32	106,106,106,106	0
55	MG	AA	3059	1/1	0.81	0.26	80,80,80,80	0
55	MG	CA	1727	1/1	0.81	0.23	103,103,103,103	0
55	MG	BA	3124	1/1	0.81	0.11	102,102,102,102	0
55	MG	AA	3529	1/1	0.81	0.19	68,68,68,68	0
55	MG	AA	3276	1/1	0.81	0.28	78,78,78,78	0
55	MG	DG	302	1/1	0.81	0.12	112,112,112,112	0
55	MG	CA	1635	1/1	0.81	0.20	100,100,100,100	0
55	MG	BA	3404	1/1	0.81	0.18	101,101,101,101	0
55	MG	CN	202	1/1	0.81	0.09	99,99,99,99	0
55	MG	AA	3279	1/1	0.81	0.12	89,89,89,89	0
55	MG	DA	1710	1/1	0.82	0.26	100,100,100,100	0
55	MG	AA	3558	1/1	0.82	0.23	89,89,89,89	0
55	MG	AA	3404	1/1	0.82	0.21	95,95,95,95	0
55	MG	BA	3296	1/1	0.82	0.17	76,76,76,76	0
55	MG	CA	1739	1/1	0.82	0.24	86,86,86,86	0
55	MG	CQ	102	1/1	0.82	0.12	97,97,97,97	0
55	MG	CA	1740	1/1	0.82	0.18	72,72,72,72	0
55	MG	AA	3304	1/1	0.82	0.08	90,90,90,90	0
55	MG	BA	3115	1/1	0.82	0.22	79,79,79,79	0
55	MG	BA	3033	1/1	0.82	0.21	94,94,94,94	0
55	MG	DA	1722	1/1	0.82	0.13	106,106,106,106	0
55	MG	BA	3399	1/1	0.82	0.11	104,104,104,104	0
55	MG	BA	3308	1/1	0.82	0.17	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	C1	101	1/1	0.82	0.10	98,98,98,98	0
55	MG	BA	3117	1/1	0.82	0.23	91,91,91,91	0
55	MG	CA	1756	1/1	0.82	0.05	113,113,113,113	0
55	MG	BA	3478	1/1	0.82	0.25	92,92,92,92	0
55	MG	BA	3035	1/1	0.82	0.19	103,103,103,103	0
55	MG	AA	3123	1/1	0.82	0.26	52,52,52,52	0
55	MG	AA	3183	1/1	0.82	0.22	93,93,93,93	0
55	MG	AA	3602	1/1	0.82	0.16	59,59,59,59	0
55	MG	AA	3384	1/1	0.82	0.33	87,87,87,87	0
55	MG	BA	3054	1/1	0.82	0.23	81,81,81,81	0
55	MG	AA	3275	1/1	0.82	0.22	87,87,87,87	0
55	MG	BA	3344	1/1	0.82	0.25	101,101,101,101	0
55	MG	AA	3358	1/1	0.82	0.40	89,89,89,89	0
55	MG	BA	3072	1/1	0.82	0.20	104,104,104,104	0
55	MG	AA	3080	1/1	0.82	0.28	104,104,104,104	0
55	MG	AA	3258	1/1	0.82	0.16	92,92,92,92	0
55	MG	DA	1640	1/1	0.82	0.11	101,101,101,101	0
55	MG	AA	3423	1/1	0.82	0.15	74,74,74,74	0
55	MG	DA	1643	1/1	0.82	0.24	81,81,81,81	0
55	MG	AB	215	1/1	0.82	0.16	93,93,93,93	0
55	MG	DA	1655	1/1	0.82	0.21	96,96,96,96	0
55	MG	DA	1782	1/1	0.82	0.28	94,94,94,94	0
55	MG	CA	1802	1/1	0.82	0.15	77,77,77,77	0
55	MG	AA	3286	1/1	0.82	0.21	86,86,86,86	0
55	MG	BA	3210	1/1	0.82	0.26	55,55,55,55	0
55	MG	AA	3429	1/1	0.82	0.29	90,90,90,90	0
55	MG	CA	1818	1/1	0.82	0.10	89,89,89,89	0
55	MG	CA	1820	1/1	0.82	0.27	88,88,88,88	0
55	MG	CA	1822	1/1	0.82	0.09	105,105,105,105	0
55	MG	DA	1801	1/1	0.82	0.20	90,90,90,90	0
55	MG	BA	3451	1/1	0.82	0.14	89,89,89,89	0
55	MG	BA	3453	1/1	0.82	0.17	93,93,93,93	0
55	MG	AA	3094	1/1	0.82	0.20	62,62,62,62	0
55	MG	DB	101	1/1	0.82	0.10	103,103,103,103	0
55	MG	AA	3216	1/1	0.82	0.15	64,64,64,64	0
55	MG	AA	3475	1/1	0.82	0.15	102,102,102,102	0
55	MG	CA	1730	1/1	0.82	0.21	107,107,107,107	0
55	MG	AA	3298	1/1	0.82	0.16	73,73,73,73	0
55	MG	AA	3451	1/1	0.83	0.12	76,76,76,76	0
55	MG	BA	3442	1/1	0.83	0.27	91,91,91,91	0
55	MG	AA	3625	1/1	0.83	0.17	89,89,89,89	0
55	MG	BA	3062	1/1	0.83	0.25	110,110,110,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3356	1/1	0.83	0.10	84,84,84,84	0
55	MG	CA	1770	1/1	0.83	0.26	90,90,90,90	0
55	MG	BA	3449	1/1	0.83	0.17	109,109,109,109	0
55	MG	CA	1774	1/1	0.83	0.23	97,97,97,97	0
55	MG	AA	3371	1/1	0.83	0.25	89,89,89,89	0
55	MG	BA	3066	1/1	0.83	0.10	86,86,86,86	0
55	MG	CA	1652	1/1	0.83	0.26	93,93,93,93	0
55	MG	BA	3068	1/1	0.83	0.20	93,93,93,93	0
55	MG	CA	1785	1/1	0.83	0.31	89,89,89,89	0
55	MG	CA	1655	1/1	0.83	0.30	95,95,95,95	0
55	MG	AB	206	1/1	0.83	0.20	93,93,93,93	0
55	MG	BA	3370	1/1	0.83	0.20	98,98,98,98	0
55	MG	AA	3341	1/1	0.83	0.15	95,95,95,95	0
55	MG	AB	212	1/1	0.83	0.31	94,94,94,94	0
55	MG	AA	3255	1/1	0.83	0.14	88,88,88,88	0
55	MG	BA	3083	1/1	0.83	0.21	92,92,92,92	0
55	MG	BA	3375	1/1	0.83	0.29	75,75,75,75	0
55	MG	CA	1816	1/1	0.83	0.11	95,95,95,95	0
55	MG	BA	3380	1/1	0.83	0.18	78,78,78,78	0
55	MG	AA	3418	1/1	0.83	0.14	91,91,91,91	0
55	MG	BA	3385	1/1	0.83	0.20	97,97,97,97	0
55	MG	BA	3092	1/1	0.83	0.28	95,95,95,95	0
55	MG	AA	3194	1/1	0.83	0.19	102,102,102,102	0
55	MG	CA	1695	1/1	0.83	0.19	90,90,90,90	0
55	MG	BA	3287	1/1	0.83	0.28	87,87,87,87	0
55	MG	CA	1830	1/1	0.83	0.25	94,94,94,94	0
55	MG	AA	3134	1/1	0.83	0.27	79,79,79,79	0
55	MG	CA	1703	1/1	0.83	0.18	103,103,103,103	0
55	MG	AA	3142	1/1	0.83	0.15	71,71,71,71	0
55	MG	BA	3498	1/1	0.83	0.13	99,99,99,99	0
55	MG	BA	3500	1/1	0.83	0.16	104,104,104,104	0
55	MG	AA	3149	1/1	0.83	0.21	57,57,57,57	0
55	MG	BA	3299	1/1	0.83	0.12	82,82,82,82	0
55	MG	BA	3008	1/1	0.83	0.18	89,89,89,89	0
55	MG	BA	3512	1/1	0.83	0.29	75,75,75,75	0
55	MG	BA	3513	1/1	0.83	0.18	104,104,104,104	0
55	MG	DA	1759	1/1	0.83	0.25	108,108,108,108	0
55	MG	CA	1721	1/1	0.83	0.16	89,89,89,89	0
55	MG	AA	3553	1/1	0.83	0.25	87,87,87,87	0
55	MG	CA	1725	1/1	0.83	0.17	98,98,98,98	0
55	MG	AA	3122	1/1	0.83	0.17	84,84,84,84	0
55	MG	AA	3312	1/1	0.83	0.17	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3522	1/1	0.83	0.30	84,84,84,84	0
55	MG	AA	3316	1/1	0.83	0.16	83,83,83,83	0
55	MG	BA	3410	1/1	0.83	0.31	94,94,94,94	0
55	MG	BB	204	1/1	0.83	0.20	90,90,90,90	0
55	MG	DA	1778	1/1	0.83	0.19	118,118,118,118	0
55	MG	BA	3413	1/1	0.83	0.12	94,94,94,94	0
55	MG	DA	1607	1/1	0.83	0.26	92,92,92,92	0
55	MG	AA	3245	1/1	0.83	0.25	75,75,75,75	0
55	MG	CA	1738	1/1	0.83	0.12	103,103,103,103	0
55	MG	DA	1788	1/1	0.83	0.23	90,90,90,90	0
55	MG	AA	3251	1/1	0.83	0.10	68,68,68,68	0
55	MG	AA	3278	1/1	0.83	0.24	100,100,100,100	0
55	MG	CA	1743	1/1	0.83	0.06	112,112,112,112	0
55	MG	BA	3419	1/1	0.83	0.14	99,99,99,99	0
55	MG	AA	3252	1/1	0.83	0.24	94,94,94,94	0
55	MG	BA	3037	1/1	0.83	0.11	75,75,75,75	0
55	MG	BA	3040	1/1	0.83	0.15	94,94,94,94	0
55	MG	AA	3182	1/1	0.83	0.14	88,88,88,88	0
55	MG	AA	3616	1/1	0.83	0.16	95,95,95,95	0
55	MG	CA	1609	1/1	0.83	0.30	78,78,78,78	0
55	MG	CA	1758	1/1	0.83	0.14	97,97,97,97	0
55	MG	DA	1644	1/1	0.83	0.25	82,82,82,82	0
55	MG	AA	3335	1/1	0.83	0.39	91,91,91,91	0
55	MG	AA	3514	1/1	0.84	0.21	67,67,67,67	0
55	MG	AB	209	1/1	0.84	0.18	108,108,108,108	0
55	MG	AA	3355	1/1	0.84	0.24	94,94,94,94	0
55	MG	AA	3465	1/1	0.84	0.12	71,71,71,71	0
55	MG	CA	1670	1/1	0.84	0.25	70,70,70,70	0
55	MG	BA	3342	1/1	0.84	0.12	80,80,80,80	0
55	MG	AA	3121	1/1	0.84	0.41	90,90,90,90	0
55	MG	CB	102	1/1	0.84	0.08	106,106,106,106	0
55	MG	AA	3377	1/1	0.84	0.20	94,94,94,94	0
55	MG	BA	3348	1/1	0.84	0.21	98,98,98,98	0
55	MG	AA	3329	1/1	0.84	0.14	94,94,94,94	0
55	MG	BA	3504	1/1	0.84	0.15	117,117,117,117	0
55	MG	CA	1760	1/1	0.84	0.17	91,91,91,91	0
55	MG	CA	1686	1/1	0.84	0.20	86,86,86,86	0
55	MG	DA	1729	1/1	0.84	0.28	84,84,84,84	0
55	MG	AA	3474	1/1	0.84	0.17	65,65,65,65	0
55	MG	AA	3554	1/1	0.84	0.17	74,74,74,74	0
55	MG	BA	3084	1/1	0.84	0.10	99,99,99,99	0
55	MG	BA	3424	1/1	0.84	0.14	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3382	1/1	0.84	0.25	102,102,102,102	0
55	MG	BA	3239	1/1	0.84	0.25	80,80,80,80	0
55	MG	DA	1609	1/1	0.84	0.18	116,116,116,116	0
55	MG	BA	3243	1/1	0.84	0.29	65,65,65,65	0
55	MG	DA	1619	1/1	0.84	0.24	77,77,77,77	0
55	MG	BA	3436	1/1	0.84	0.16	94,94,94,94	0
55	MG	DA	1621	1/1	0.84	0.31	99,99,99,99	0
55	MG	CA	1776	1/1	0.84	0.22	79,79,79,79	0
55	MG	DA	1624	1/1	0.84	0.20	95,95,95,95	0
55	MG	AA	3148	1/1	0.84	0.26	83,83,83,83	0
55	MG	BA	3018	1/1	0.84	0.13	83,83,83,83	0
55	MG	CA	1782	1/1	0.84	0.29	94,94,94,94	0
55	MG	BA	3444	1/1	0.84	0.25	96,96,96,96	0
55	MG	AA	3583	1/1	0.84	0.24	103,103,103,103	0
55	MG	AA	3443	1/1	0.84	0.11	90,90,90,90	0
55	MG	AA	3288	1/1	0.84	0.23	90,90,90,90	0
55	MG	AA	3336	1/1	0.84	0.12	82,82,82,82	0
55	MG	DA	1641	1/1	0.84	0.26	95,95,95,95	0
55	MG	BA	3290	1/1	0.84	0.11	82,82,82,82	0
55	MG	AA	3247	1/1	0.84	0.30	74,74,74,74	0
55	MG	CA	1803	1/1	0.84	0.13	94,94,94,94	0
55	MG	AA	3420	1/1	0.84	0.25	88,88,88,88	0
55	MG	AA	3499	1/1	0.84	0.37	93,93,93,93	0
55	MG	BA	3455	1/1	0.84	0.17	92,92,92,92	0
55	MG	BA	3457	1/1	0.84	0.11	99,99,99,99	0
55	MG	AA	3062	1/1	0.84	0.19	86,86,86,86	0
55	MG	CA	1819	1/1	0.84	0.12	109,109,109,109	0
55	MG	AA	3617	1/1	0.84	0.27	92,92,92,92	0
55	MG	AA	3049	1/1	0.84	0.23	80,80,80,80	0
55	MG	AA	3621	1/1	0.84	0.20	91,91,91,91	0
55	MG	CA	1734	1/1	0.84	0.18	86,86,86,86	0
55	MG	AA	3300	1/1	0.84	0.08	81,81,81,81	0
55	MG	AA	3303	1/1	0.84	0.20	95,95,95,95	0
55	MG	AA	3426	1/1	0.84	0.14	80,80,80,80	0
55	MG	DA	1693	1/1	0.84	0.20	93,93,93,93	0
55	MG	BA	3125	1/1	0.84	0.17	104,104,104,104	0
55	MG	AB	204	1/1	0.84	0.25	96,96,96,96	0
55	MG	DA	1730	1/1	0.85	0.19	102,102,102,102	0
55	MG	AA	3487	1/1	0.85	0.11	77,77,77,77	0
55	MG	BA	3077	1/1	0.85	0.15	101,101,101,101	0
55	MG	BA	3256	1/1	0.85	0.13	102,102,102,102	0
55	MG	BA	3475	1/1	0.85	0.27	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3269	1/1	0.85	0.21	58,58,58,58	0
55	MG	BA	3489	1/1	0.85	0.29	68,68,68,68	0
55	MG	CA	1757	1/1	0.85	0.12	92,92,92,92	0
55	MG	BA	3272	1/1	0.85	0.25	81,81,81,81	0
55	MG	AA	3401	1/1	0.85	0.22	93,93,93,93	0
55	MG	DA	1753	1/1	0.85	0.33	87,87,87,87	0
55	MG	CA	1618	1/1	0.85	0.17	94,94,94,94	0
55	MG	AA	3392	1/1	0.85	0.09	93,93,93,93	0
55	MG	CA	1764	1/1	0.85	0.09	92,92,92,92	0
55	MG	CA	1625	1/1	0.85	0.13	71,71,71,71	0
55	MG	BA	3122	1/1	0.85	0.24	95,95,95,95	0
55	MG	BA	3347	1/1	0.85	0.12	85,85,85,85	0
55	MG	AA	3339	1/1	0.85	0.18	85,85,85,85	0
55	MG	AA	3531	1/1	0.85	0.16	96,96,96,96	0
55	MG	CA	1771	1/1	0.85	0.14	102,102,102,102	0
55	MG	DA	1768	1/1	0.85	0.14	82,82,82,82	0
55	MG	CA	1640	1/1	0.85	0.17	85,85,85,85	0
55	MG	DA	1770	1/1	0.85	0.28	95,95,95,95	0
55	MG	CA	1644	1/1	0.85	0.14	84,84,84,84	0
55	MG	CA	1723	1/1	0.85	0.29	106,106,106,106	0
55	MG	CC	104	1/1	0.85	0.20	97,97,97,97	0
55	MG	AA	3535	1/1	0.85	0.06	103,103,103,103	0
55	MG	AA	3137	1/1	0.85	0.10	51,51,51,51	0
55	MG	CA	1651	1/1	0.85	0.27	75,75,75,75	0
55	MG	AF	303	1/1	0.85	0.22	69,69,69,69	0
55	MG	AA	3427	1/1	0.85	0.33	82,82,82,82	0
55	MG	AA	3459	1/1	0.85	0.23	81,81,81,81	0
55	MG	AA	3444	1/1	0.85	0.22	58,58,58,58	0
55	MG	AA	3351	1/1	0.85	0.20	82,82,82,82	0
55	MG	AA	3283	1/1	0.85	0.23	91,91,91,91	0
55	MG	AB	203	1/1	0.85	0.34	69,69,69,69	0
55	MG	AA	3585	1/1	0.85	0.29	91,91,91,91	0
55	MG	DA	1618	1/1	0.85	0.18	104,104,104,104	0
55	MG	DA	1803	1/1	0.85	0.21	100,100,100,100	0
55	MG	BB	207	1/1	0.85	0.23	116,116,116,116	0
55	MG	BA	3312	1/1	0.85	0.18	98,98,98,98	0
55	MG	CA	1805	1/1	0.85	0.25	75,75,75,75	0
55	MG	AA	3482	1/1	0.85	0.29	96,96,96,96	0
55	MG	CA	1742	1/1	0.85	0.12	115,115,115,115	0
55	MG	BA	3201	1/1	0.85	0.20	94,94,94,94	0
55	MG	BA	3073	1/1	0.85	0.32	99,99,99,99	0
55	MG	DA	1686	1/1	0.86	0.23	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	CA	1605	1/1	0.86	0.20	86,86,86,86	0
55	MG	DA	1690	1/1	0.86	0.23	92,92,92,92	0
55	MG	DA	1692	1/1	0.86	0.24	81,81,81,81	0
55	MG	BA	3214	1/1	0.86	0.18	77,77,77,77	0
55	MG	CA	1733	1/1	0.86	0.07	107,107,107,107	0
55	MG	BA	3358	1/1	0.86	0.30	85,85,85,85	0
55	MG	BA	3233	1/1	0.86	0.29	74,74,74,74	0
55	MG	DA	1705	1/1	0.86	0.21	97,97,97,97	0
55	MG	DA	1708	1/1	0.86	0.34	102,102,102,102	0
55	MG	AA	3383	1/1	0.86	0.19	85,85,85,85	0
55	MG	BA	3367	1/1	0.86	0.36	91,91,91,91	0
55	MG	AO	203	1/1	0.86	0.18	43,43,43,43	0
55	MG	CA	1624	1/1	0.86	0.09	97,97,97,97	0
55	MG	BA	3251	1/1	0.86	0.19	81,81,81,81	0
55	MG	CA	1741	1/1	0.86	0.17	80,80,80,80	0
55	MG	BA	3456	1/1	0.86	0.20	88,88,88,88	0
55	MG	AA	3165	1/1	0.86	0.36	82,82,82,82	0
55	MG	AA	3598	1/1	0.86	0.15	87,87,87,87	0
55	MG	AA	3173	1/1	0.86	0.12	67,67,67,67	0
55	MG	AA	3452	1/1	0.86	0.26	76,76,76,76	0
55	MG	AA	3114	1/1	0.86	0.35	56,56,56,56	0
55	MG	AA	3228	1/1	0.86	0.23	79,79,79,79	0
55	MG	BA	3383	1/1	0.86	0.38	95,95,95,95	0
55	MG	AA	3609	1/1	0.86	0.18	62,62,62,62	0
55	MG	BA	3102	1/1	0.86	0.08	86,86,86,86	0
55	MG	AA	3611	1/1	0.86	0.14	100,100,100,100	0
55	MG	AA	3612	1/1	0.86	0.19	92,92,92,92	0
55	MG	AA	3019	1/1	0.86	0.18	55,55,55,55	0
55	MG	AA	3063	1/1	0.86	0.26	85,85,85,85	0
55	MG	AA	3619	1/1	0.86	0.23	87,87,87,87	0
55	MG	BA	3298	1/1	0.86	0.16	61,61,61,61	0
55	MG	AA	3394	1/1	0.86	0.18	99,99,99,99	0
55	MG	CA	1681	1/1	0.86	0.17	80,80,80,80	0
55	MG	DA	1614	1/1	0.86	0.21	93,93,93,93	0
55	MG	DA	1615	1/1	0.86	0.17	96,96,96,96	0
55	MG	AA	3270	1/1	0.86	0.23	69,69,69,69	0
55	MG	AA	3136	1/1	0.86	0.12	61,61,61,61	0
55	MG	BA	3045	1/1	0.86	0.25	88,88,88,88	0
55	MG	BA	3307	1/1	0.86	0.20	106,106,106,106	0
55	MG	DA	1761	1/1	0.86	0.29	84,84,84,84	0
55	MG	AA	3368	1/1	0.86	0.23	90,90,90,90	0
55	MG	AA	3119	1/1	0.86	0.29	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3056	1/1	0.86	0.19	96,96,96,96	0
55	MG	BA	3144	1/1	0.86	0.14	95,95,95,95	0
55	MG	DA	1627	1/1	0.86	0.14	105,105,105,105	0
55	MG	AA	3305	1/1	0.86	0.19	80,80,80,80	0
55	MG	DA	1629	1/1	0.86	0.07	92,92,92,92	0
55	MG	BA	3518	1/1	0.86	0.27	74,74,74,74	0
55	MG	BA	3330	1/1	0.86	0.27	91,91,91,91	0
55	MG	CA	1784	1/1	0.86	0.28	101,101,101,101	0
55	MG	DA	1777	1/1	0.86	0.21	87,87,87,87	0
55	MG	AA	3274	1/1	0.86	0.14	72,72,72,72	0
55	MG	DA	1780	1/1	0.86	0.25	107,107,107,107	0
55	MG	BA	3063	1/1	0.86	0.20	89,89,89,89	0
55	MG	AA	3470	1/1	0.86	0.16	96,96,96,96	0
55	MG	BA	3159	1/1	0.86	0.24	83,83,83,83	0
55	MG	BA	3161	1/1	0.86	0.19	89,89,89,89	0
55	MG	CA	1798	1/1	0.86	0.26	82,82,82,82	0
55	MG	BA	3427	1/1	0.86	0.19	100,100,100,100	0
55	MG	DA	1654	1/1	0.86	0.24	92,92,92,92	0
55	MG	BB	205	1/1	0.86	0.21	86,86,86,86	0
55	MG	AA	3438	1/1	0.86	0.27	90,90,90,90	0
55	MG	AA	3405	1/1	0.86	0.36	90,90,90,90	0
55	MG	BA	3070	1/1	0.86	0.17	81,81,81,81	0
55	MG	AA	3478	1/1	0.86	0.19	75,75,75,75	0
55	MG	AA	3098	1/1	0.86	0.26	81,81,81,81	0
55	MG	AA	3033	1/1	0.86	0.20	49,49,49,49	0
55	MG	BA	3443	1/1	0.86	0.15	92,92,92,92	0
55	MG	AA	3017	1/1	0.86	0.17	64,64,64,64	0
55	MG	DA	1682	1/1	0.86	0.28	96,96,96,96	0
55	MG	AA	3077	1/1	0.86	0.16	103,103,103,103	0
55	MG	AA	3483	1/1	0.86	0.09	87,87,87,87	0
55	MG	BA	3426	1/1	0.87	0.19	87,87,87,87	0
55	MG	AB	207	1/1	0.87	0.07	103,103,103,103	0
55	MG	AB	208	1/1	0.87	0.22	92,92,92,92	0
55	MG	AA	3489	1/1	0.87	0.41	86,86,86,86	0
55	MG	DA	1695	1/1	0.87	0.26	88,88,88,88	0
55	MG	AA	3108	1/1	0.87	0.30	66,66,66,66	0
55	MG	AA	3557	1/1	0.87	0.29	100,100,100,100	0
55	MG	BA	3179	1/1	0.87	0.28	61,61,61,61	0
55	MG	BA	3441	1/1	0.87	0.17	93,93,93,93	0
55	MG	DA	1706	1/1	0.87	0.32	90,90,90,90	0
55	MG	AA	3493	1/1	0.87	0.14	92,92,92,92	0
55	MG	BA	3194	1/1	0.87	0.19	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	CG	301	1/1	0.87	0.25	94,94,94,94	0
55	MG	AA	3564	1/1	0.87	0.16	76,76,76,76	0
55	MG	AA	3435	1/1	0.87	0.32	78,78,78,78	0
55	MG	AA	3584	1/1	0.87	0.09	63,63,63,63	0
55	MG	AA	3462	1/1	0.87	0.22	85,85,85,85	0
55	MG	CA	1616	1/1	0.87	0.17	103,103,103,103	0
55	MG	AA	3386	1/1	0.87	0.15	74,74,74,74	0
55	MG	BA	3242	1/1	0.87	0.31	62,62,62,62	0
55	MG	CA	1623	1/1	0.87	0.17	73,73,73,73	0
55	MG	BA	3365	1/1	0.87	0.19	90,90,90,90	0
55	MG	AA	3500	1/1	0.87	0.17	103,103,103,103	0
55	MG	BA	3091	1/1	0.87	0.25	86,86,86,86	0
55	MG	AZ	101	1/1	0.87	0.10	77,77,77,77	0
55	MG	CA	1751	1/1	0.87	0.18	78,78,78,78	0
55	MG	CA	1752	1/1	0.87	0.11	96,96,96,96	0
55	MG	BA	3260	1/1	0.87	0.13	82,82,82,82	0
55	MG	A6	101	1/1	0.87	0.17	111,111,111,111	0
55	MG	CA	1639	1/1	0.87	0.24	86,86,86,86	0
55	MG	AA	3501	1/1	0.87	0.11	99,99,99,99	0
55	MG	AA	3342	1/1	0.87	0.27	70,70,70,70	0
55	MG	AA	3600	1/1	0.87	0.25	74,74,74,74	0
55	MG	CA	1648	1/1	0.87	0.24	79,79,79,79	0
55	MG	DA	1750	1/1	0.87	0.11	84,84,84,84	0
55	MG	BA	3378	1/1	0.87	0.07	78,78,78,78	0
55	MG	AA	3320	1/1	0.87	0.11	103,103,103,103	0
55	MG	CA	1763	1/1	0.87	0.14	81,81,81,81	0
55	MG	AA	3321	1/1	0.87	0.19	65,65,65,65	0
55	MG	AA	3324	1/1	0.87	0.15	92,92,92,92	0
55	MG	CA	1654	1/1	0.87	0.24	75,75,75,75	0
55	MG	BA	3025	1/1	0.87	0.10	80,80,80,80	0
55	MG	AA	3510	1/1	0.87	0.42	84,84,84,84	0
55	MG	AA	3511	1/1	0.87	0.32	98,98,98,98	0
55	MG	AA	3248	1/1	0.87	0.29	74,74,74,74	0
55	MG	DA	1764	1/1	0.87	0.32	85,85,85,85	0
55	MG	DA	1765	1/1	0.87	0.11	93,93,93,93	0
55	MG	BA	3390	1/1	0.87	0.26	77,77,77,77	0
55	MG	AA	3614	1/1	0.87	0.24	78,78,78,78	0
55	MG	AA	3032	1/1	0.87	0.17	65,65,65,65	0
55	MG	AA	3291	1/1	0.87	0.29	68,68,68,68	0
55	MG	AA	3522	1/1	0.87	0.19	97,97,97,97	0
55	MG	DA	1635	1/1	0.87	0.18	79,79,79,79	0
55	MG	BA	3495	1/1	0.87	0.23	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3060	1/1	0.87	0.15	84,84,84,84	0
55	MG	AA	3380	1/1	0.87	0.08	96,96,96,96	0
55	MG	AA	3117	1/1	0.87	0.21	54,54,54,54	0
55	MG	BA	3405	1/1	0.87	0.21	87,87,87,87	0
55	MG	BA	3127	1/1	0.87	0.33	55,55,55,55	0
55	MG	AA	3315	1/1	0.87	0.32	70,70,70,70	0
55	MG	AA	3428	1/1	0.87	0.15	120,120,120,120	0
55	MG	BA	3055	1/1	0.87	0.21	99,99,99,99	0
55	MG	BA	3516	1/1	0.87	0.14	73,73,73,73	0
55	MG	BA	3324	1/1	0.87	0.26	75,75,75,75	0
55	MG	BA	3326	1/1	0.87	0.16	84,84,84,84	0
55	MG	DA	1658	1/1	0.87	0.16	113,113,113,113	0
55	MG	AB	202	1/1	0.87	0.15	92,92,92,92	0
55	MG	BA	3418	1/1	0.87	0.14	73,73,73,73	0
55	MG	CA	1809	1/1	0.87	0.18	79,79,79,79	0
55	MG	AA	3537	1/1	0.87	0.09	105,105,105,105	0
55	MG	DA	1668	1/1	0.87	0.18	73,73,73,73	0
55	MG	BA	3158	1/1	0.87	0.22	70,70,70,70	0
55	MG	BA	3421	1/1	0.87	0.08	102,102,102,102	0
55	MG	AA	3056	1/1	0.87	0.24	98,98,98,98	0
55	MG	DC	101	1/1	0.87	0.10	95,95,95,95	0
55	MG	AB	205	1/1	0.87	0.18	83,83,83,83	0
55	MG	AA	3317	1/1	0.87	0.26	85,85,85,85	0
55	MG	CA	1821	1/1	0.87	0.26	94,94,94,94	0
55	MG	AA	3576	1/1	0.88	0.26	46,46,46,46	0
55	MG	BA	3195	1/1	0.88	0.25	94,94,94,94	0
55	MG	BA	3196	1/1	0.88	0.18	84,84,84,84	0
55	MG	BA	3200	1/1	0.88	0.19	65,65,65,65	0
55	MG	AA	3492	1/1	0.88	0.09	94,94,94,94	0
55	MG	AA	3415	1/1	0.88	0.27	87,87,87,87	0
55	MG	AA	3227	1/1	0.88	0.37	90,90,90,90	0
55	MG	BA	3228	1/1	0.88	0.27	74,74,74,74	0
55	MG	A2	201	1/1	0.88	0.33	101,101,101,101	0
55	MG	CC	103	1/1	0.88	0.19	104,104,104,104	0
55	MG	AA	3388	1/1	0.88	0.29	85,85,85,85	0
55	MG	AA	3419	1/1	0.88	0.28	89,89,89,89	0
55	MG	CA	1636	1/1	0.88	0.23	91,91,91,91	0
55	MG	AA	3389	1/1	0.88	0.19	72,72,72,72	0
55	MG	AA	3189	1/1	0.88	0.19	90,90,90,90	0
55	MG	AA	3313	1/1	0.88	0.23	70,70,70,70	0
55	MG	DA	1727	1/1	0.88	0.24	86,86,86,86	0
55	MG	AA	3505	1/1	0.88	0.30	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3155	1/1	0.88	0.32	71,71,71,71	0
55	MG	BA	3377	1/1	0.88	0.28	81,81,81,81	0
55	MG	DA	1731	1/1	0.88	0.26	70,70,70,70	0
55	MG	BA	3270	1/1	0.88	0.25	81,81,81,81	0
55	MG	AA	3065	1/1	0.88	0.26	88,88,88,88	0
55	MG	DA	1612	1/1	0.88	0.08	73,73,73,73	0
55	MG	AA	3343	1/1	0.88	0.23	74,74,74,74	0
55	MG	AA	3107	1/1	0.88	0.13	69,69,69,69	0
55	MG	BA	3028	1/1	0.88	0.24	85,85,85,85	0
55	MG	DA	1617	1/1	0.88	0.22	102,102,102,102	0
55	MG	BA	3109	1/1	0.88	0.13	75,75,75,75	0
55	MG	DA	1748	1/1	0.88	0.32	91,91,91,91	0
55	MG	BA	3111	1/1	0.88	0.14	82,82,82,82	0
55	MG	AA	3268	1/1	0.88	0.37	85,85,85,85	0
55	MG	AA	3512	1/1	0.88	0.12	97,97,97,97	0
55	MG	AA	3467	1/1	0.88	0.19	87,87,87,87	0
55	MG	AA	3196	1/1	0.88	0.16	61,61,61,61	0
55	MG	CA	1680	1/1	0.88	0.18	79,79,79,79	0
55	MG	AA	3431	1/1	0.88	0.18	89,89,89,89	0
55	MG	BA	3496	1/1	0.88	0.09	96,96,96,96	0
55	MG	AA	3375	1/1	0.88	0.15	88,88,88,88	0
55	MG	AA	3473	1/1	0.88	0.13	77,77,77,77	0
55	MG	AA	3376	1/1	0.88	0.19	85,85,85,85	0
55	MG	AA	3403	1/1	0.88	0.24	91,91,91,91	0
55	MG	AA	3092	1/1	0.88	0.18	71,71,71,71	0
55	MG	BA	3505	1/1	0.88	0.13	94,94,94,94	0
55	MG	BA	3506	1/1	0.88	0.16	74,74,74,74	0
55	MG	BA	3306	1/1	0.88	0.21	86,86,86,86	0
55	MG	BA	3051	1/1	0.88	0.09	90,90,90,90	0
55	MG	AA	3109	1/1	0.88	0.20	53,53,53,53	0
55	MG	AA	3536	1/1	0.88	0.16	92,92,92,92	0
55	MG	AA	3301	1/1	0.88	0.07	85,85,85,85	0
55	MG	AA	3542	1/1	0.88	0.15	93,93,93,93	0
55	MG	AA	3546	1/1	0.88	0.17	74,74,74,74	0
55	MG	AA	3408	1/1	0.88	0.20	83,83,83,83	0
55	MG	AA	3099	1/1	0.88	0.22	64,64,64,64	0
55	MG	AA	3410	1/1	0.88	0.11	95,95,95,95	0
55	MG	AA	3486	1/1	0.88	0.10	90,90,90,90	0
55	MG	BA	3528	1/1	0.88	0.14	98,98,98,98	0
55	MG	AA	3218	1/1	0.88	0.24	73,73,73,73	0
55	MG	AA	3076	1/1	0.88	0.17	82,82,82,82	0
55	MG	DA	1790	1/1	0.88	0.26	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3335	1/1	0.88	0.16	100,100,100,100	0
55	MG	AA	3560	1/1	0.88	0.19	87,87,87,87	0
55	MG	BA	3338	1/1	0.88	0.21	71,71,71,71	0
55	MG	DA	1796	1/1	0.88	0.15	97,97,97,97	0
55	MG	BA	3074	1/1	0.88	0.09	83,83,83,83	0
55	MG	CA	1824	1/1	0.88	0.24	94,94,94,94	0
55	MG	BA	3431	1/1	0.88	0.16	84,84,84,84	0
55	MG	BA	3176	1/1	0.88	0.14	79,79,79,79	0
55	MG	BA	3343	1/1	0.88	0.12	75,75,75,75	0
55	MG	BA	3177	1/1	0.88	0.24	75,75,75,75	0
55	MG	AA	3045	1/1	0.88	0.24	54,54,54,54	0
55	MG	BA	3439	1/1	0.88	0.12	103,103,103,103	0
55	MG	CA	1833	1/1	0.88	0.10	95,95,95,95	0
55	MG	BA	3188	1/1	0.88	0.20	85,85,85,85	0
55	MG	BA	3189	1/1	0.88	0.17	61,61,61,61	0
55	MG	AB	217	1/1	0.88	0.07	110,110,110,110	0
55	MG	A3	101	1/1	0.89	0.32	74,74,74,74	0
55	MG	CA	1747	1/1	0.89	0.22	83,83,83,83	0
55	MG	AA	3048	1/1	0.89	0.14	86,86,86,86	0
55	MG	BA	3490	1/1	0.89	0.13	52,52,52,52	0
55	MG	BA	3225	1/1	0.89	0.16	78,78,78,78	0
55	MG	DA	1709	1/1	0.89	0.17	109,109,109,109	0
55	MG	BA	3336	1/1	0.89	0.25	97,97,97,97	0
55	MG	AA	3091	1/1	0.89	0.22	78,78,78,78	0
55	MG	AA	3259	1/1	0.89	0.17	81,81,81,81	0
55	MG	BA	3004	1/1	0.89	0.23	105,105,105,105	0
55	MG	BA	3341	1/1	0.89	0.24	82,82,82,82	0
55	MG	BA	3241	1/1	0.89	0.24	52,52,52,52	0
55	MG	AA	3282	1/1	0.89	0.20	78,78,78,78	0
55	MG	BA	3010	1/1	0.89	0.22	68,68,68,68	0
55	MG	BA	3345	1/1	0.89	0.13	87,87,87,87	0
55	MG	CA	1676	1/1	0.89	0.20	76,76,76,76	0
55	MG	AA	3330	1/1	0.89	0.14	60,60,60,60	0
55	MG	CA	1678	1/1	0.89	0.25	69,69,69,69	0
55	MG	DA	1726	1/1	0.89	0.31	79,79,79,79	0
55	MG	BA	3509	1/1	0.89	0.34	73,73,73,73	0
55	MG	AA	3308	1/1	0.89	0.17	96,96,96,96	0
55	MG	AA	3365	1/1	0.89	0.24	74,74,74,74	0
55	MG	DA	1611	1/1	0.89	0.07	100,100,100,100	0
55	MG	BA	3263	1/1	0.89	0.18	84,84,84,84	0
55	MG	DA	1734	1/1	0.89	0.21	88,88,88,88	0
55	MG	BA	3265	1/1	0.89	0.21	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3135	1/1	0.89	0.21	52,52,52,52	0
55	MG	AA	3003	1/1	0.89	0.26	64,64,64,64	0
55	MG	DA	1616	1/1	0.89	0.22	100,100,100,100	0
55	MG	AA	3284	1/1	0.89	0.26	81,81,81,81	0
55	MG	CA	1688	1/1	0.89	0.14	77,77,77,77	0
55	MG	BA	3150	1/1	0.89	0.24	96,96,96,96	0
55	MG	BA	3274	1/1	0.89	0.15	90,90,90,90	0
55	MG	BA	3076	1/1	0.89	0.29	91,91,91,91	0
55	MG	CA	1781	1/1	0.89	0.22	62,62,62,62	0
55	MG	AA	3262	1/1	0.89	0.21	33,33,33,33	0
55	MG	AA	3340	1/1	0.89	0.18	83,83,83,83	0
55	MG	AA	3023	1/1	0.89	0.32	56,56,56,56	0
55	MG	BA	3082	1/1	0.89	0.38	76,76,76,76	0
55	MG	AA	3457	1/1	0.89	0.38	64,64,64,64	0
55	MG	BA	3162	1/1	0.89	0.07	92,92,92,92	0
55	MG	CA	1791	1/1	0.89	0.16	97,97,97,97	0
55	MG	CA	1792	1/1	0.89	0.19	81,81,81,81	0
55	MG	BA	3034	1/1	0.89	0.22	81,81,81,81	0
55	MG	AA	3222	1/1	0.89	0.29	54,54,54,54	0
55	MG	AA	3047	1/1	0.89	0.16	60,60,60,60	0
55	MG	CA	1801	1/1	0.89	0.10	84,84,84,84	0
55	MG	AA	3318	1/1	0.89	0.14	92,92,92,92	0
55	MG	BA	3093	1/1	0.89	0.10	78,78,78,78	0
55	MG	BA	3039	1/1	0.89	0.09	85,85,85,85	0
55	MG	CA	1719	1/1	0.89	0.09	85,85,85,85	0
55	MG	AA	3081	1/1	0.89	0.34	51,51,51,51	0
55	MG	B1	201	1/1	0.89	0.36	82,82,82,82	0
55	MG	BA	3041	1/1	0.89	0.08	104,104,104,104	0
55	MG	AA	3129	1/1	0.89	0.29	73,73,73,73	0
55	MG	CA	1817	1/1	0.89	0.19	85,85,85,85	0
55	MG	AA	3378	1/1	0.89	0.27	84,84,84,84	0
55	MG	DA	1659	1/1	0.89	0.12	80,80,80,80	0
55	MG	CA	1726	1/1	0.89	0.16	103,103,103,103	0
55	MG	CA	1613	1/1	0.89	0.05	94,94,94,94	0
55	MG	AA	3613	1/1	0.89	0.16	76,76,76,76	0
55	MG	BA	3048	1/1	0.89	0.11	74,74,74,74	0
55	MG	DA	1667	1/1	0.89	0.19	82,82,82,82	0
55	MG	BA	3106	1/1	0.89	0.16	85,85,85,85	0
55	MG	DA	1674	1/1	0.89	0.18	76,76,76,76	0
55	MG	DA	1676	1/1	0.89	0.23	82,82,82,82	0
55	MG	DA	1677	1/1	0.89	0.14	82,82,82,82	0
55	MG	BA	3392	1/1	0.89	0.09	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	DA	1680	1/1	0.89	0.27	81,81,81,81	0
55	MG	BA	3393	1/1	0.89	0.16	84,84,84,84	0
55	MG	BA	3395	1/1	0.89	0.06	89,89,89,89	0
55	MG	BA	3320	1/1	0.89	0.27	77,77,77,77	0
55	MG	AA	3349	1/1	0.89	0.12	84,84,84,84	0
55	MG	AA	3198	1/1	0.89	0.34	74,74,74,74	0
55	MG	DH	201	1/1	0.89	0.19	105,105,105,105	0
55	MG	BA	3328	1/1	0.89	0.09	61,61,61,61	0
55	MG	AA	3322	1/1	0.89	0.23	68,68,68,68	0
55	MG	AA	3232	1/1	0.89	0.23	104,104,104,104	0
55	MG	BA	3206	1/1	0.89	0.23	98,98,98,98	0
55	MG	CA	1638	1/1	0.89	0.19	108,108,108,108	0
55	MG	BA	3476	1/1	0.89	0.11	68,68,68,68	0
55	MG	AA	3618	1/1	0.90	0.21	97,97,97,97	0
55	MG	CA	1840	1/1	0.90	0.16	69,69,69,69	0
55	MG	BA	3369	1/1	0.90	0.23	69,69,69,69	0
55	MG	AA	3547	1/1	0.90	0.14	45,45,45,45	0
55	MG	BA	3275	1/1	0.90	0.24	52,52,52,52	0
55	MG	BA	3152	1/1	0.90	0.21	73,73,73,73	0
55	MG	BA	3278	1/1	0.90	0.28	92,92,92,92	0
55	MG	BA	3155	1/1	0.90	0.30	87,87,87,87	0
55	MG	AA	3272	1/1	0.90	0.27	65,65,65,65	0
55	MG	AA	3250	1/1	0.90	0.12	99,99,99,99	0
55	MG	CA	1746	1/1	0.90	0.17	98,98,98,98	0
55	MG	DA	1711	1/1	0.90	0.22	89,89,89,89	0
55	MG	AA	3623	1/1	0.90	0.20	74,74,74,74	0
55	MG	CC	102	1/1	0.90	0.18	69,69,69,69	0
55	MG	CA	1633	1/1	0.90	0.22	83,83,83,83	0
55	MG	BA	3288	1/1	0.90	0.14	98,98,98,98	0
55	MG	AA	3095	1/1	0.90	0.10	89,89,89,89	0
55	MG	BA	3467	1/1	0.90	0.21	93,93,93,93	0
55	MG	AA	3055	1/1	0.90	0.25	67,67,67,67	0
55	MG	AA	3177	1/1	0.90	0.26	46,46,46,46	0
55	MG	AA	3254	1/1	0.90	0.25	85,85,85,85	0
55	MG	CA	1643	1/1	0.90	0.20	91,91,91,91	0
55	MG	BA	3030	1/1	0.90	0.22	99,99,99,99	0
55	MG	BA	3088	1/1	0.90	0.16	94,94,94,94	0
55	MG	BA	3473	1/1	0.90	0.21	78,78,78,78	0
55	MG	AA	3124	1/1	0.90	0.32	47,47,47,47	0
55	MG	AA	3363	1/1	0.90	0.26	95,95,95,95	0
55	MG	AA	3575	1/1	0.90	0.20	42,42,42,42	0
55	MG	BA	3305	1/1	0.90	0.19	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3479	1/1	0.90	0.37	95,95,95,95	0
55	MG	BA	3485	1/1	0.90	0.21	46,46,46,46	0
55	MG	AA	3472	1/1	0.90	0.36	80,80,80,80	0
55	MG	CA	1667	1/1	0.90	0.20	77,77,77,77	0
55	MG	AA	3280	1/1	0.90	0.14	94,94,94,94	0
55	MG	AA	3145	1/1	0.90	0.32	91,91,91,91	0
55	MG	CA	1675	1/1	0.90	0.12	97,97,97,97	0
55	MG	BA	3311	1/1	0.90	0.12	82,82,82,82	0
55	MG	BA	3187	1/1	0.90	0.33	65,65,65,65	0
55	MG	AA	3203	1/1	0.90	0.32	65,65,65,65	0
55	MG	AA	3586	1/1	0.90	0.13	53,53,53,53	0
55	MG	AA	3039	1/1	0.90	0.26	82,82,82,82	0
55	MG	BA	3406	1/1	0.90	0.12	97,97,97,97	0
55	MG	AB	213	1/1	0.90	0.26	73,73,73,73	0
55	MG	AA	3447	1/1	0.90	0.25	75,75,75,75	0
55	MG	AA	3261	1/1	0.90	0.26	85,85,85,85	0
55	MG	BA	3047	1/1	0.90	0.14	80,80,80,80	0
55	MG	DA	1633	1/1	0.90	0.20	88,88,88,88	0
55	MG	DA	1634	1/1	0.90	0.16	77,77,77,77	0
55	MG	AA	3449	1/1	0.90	0.11	63,63,63,63	0
55	MG	AA	3211	1/1	0.90	0.14	58,58,58,58	0
55	MG	AA	3068	1/1	0.90	0.39	72,72,72,72	0
55	MG	BA	3333	1/1	0.90	0.21	73,73,73,73	0
55	MG	BA	3212	1/1	0.90	0.25	70,70,70,70	0
55	MG	BA	3052	1/1	0.90	0.15	58,58,58,58	0
55	MG	BA	3220	1/1	0.90	0.12	40,40,40,40	0
55	MG	CA	1799	1/1	0.90	0.25	95,95,95,95	0
55	MG	BA	3221	1/1	0.90	0.16	37,37,37,37	0
55	MG	DA	1652	1/1	0.90	0.16	85,85,85,85	0
55	MG	BA	3222	1/1	0.90	0.11	54,54,54,54	0
55	MG	AA	3372	1/1	0.90	0.07	87,87,87,87	0
55	MG	BA	3524	1/1	0.90	0.37	105,105,105,105	0
55	MG	BA	3226	1/1	0.90	0.32	82,82,82,82	0
55	MG	BA	3526	1/1	0.90	0.21	92,92,92,92	0
55	MG	DA	1781	1/1	0.90	0.12	87,87,87,87	0
55	MG	AA	3424	1/1	0.90	0.22	54,54,54,54	0
55	MG	DA	1660	1/1	0.90	0.15	102,102,102,102	0
55	MG	AA	3532	1/1	0.90	0.28	88,88,88,88	0
55	MG	DA	1662	1/1	0.90	0.31	78,78,78,78	0
55	MG	AA	3290	1/1	0.90	0.26	72,72,72,72	0
55	MG	BA	3433	1/1	0.90	0.18	88,88,88,88	0
55	MG	BA	3060	1/1	0.90	0.07	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AU	201	1/1	0.90	0.14	85,85,85,85	0
55	MG	BA	3123	1/1	0.90	0.07	77,77,77,77	0
55	MG	DA	1669	1/1	0.90	0.29	68,68,68,68	0
55	MG	DA	1672	1/1	0.90	0.19	63,63,63,63	0
55	MG	DA	1800	1/1	0.90	0.24	99,99,99,99	0
55	MG	BA	3246	1/1	0.90	0.12	99,99,99,99	0
55	MG	AA	3187	1/1	0.90	0.23	87,87,87,87	0
55	MG	AA	3072	1/1	0.90	0.05	101,101,101,101	0
55	MG	AA	3540	1/1	0.90	0.47	63,63,63,63	0
55	MG	DG	301	1/1	0.90	0.19	94,94,94,94	0
55	MG	BA	3133	1/1	0.90	0.15	50,50,50,50	0
55	MG	AA	3296	1/1	0.90	0.25	72,72,72,72	0
55	MG	BA	3266	1/1	0.90	0.50	91,91,91,91	0
55	MG	CA	1604	1/1	0.90	0.19	77,77,77,77	0
55	MG	BA	3267	1/1	0.90	0.24	62,62,62,62	0
55	MG	BA	3142	1/1	0.90	0.21	70,70,70,70	0
55	MG	AA	3052	1/1	0.90	0.22	73,73,73,73	0
55	MG	BA	3005	1/1	0.90	0.18	70,70,70,70	0
55	MG	AA	3364	1/1	0.91	0.09	69,69,69,69	0
55	MG	AA	3024	1/1	0.91	0.25	45,45,45,45	0
55	MG	BA	3316	1/1	0.91	0.13	67,67,67,67	0
55	MG	CA	1814	1/1	0.91	0.13	86,86,86,86	0
55	MG	BA	3199	1/1	0.91	0.24	76,76,76,76	0
55	MG	AA	3051	1/1	0.91	0.26	71,71,71,71	0
55	MG	CA	1690	1/1	0.91	0.16	102,102,102,102	0
55	MG	AA	3559	1/1	0.91	0.15	83,83,83,83	0
55	MG	BA	3202	1/1	0.91	0.15	69,69,69,69	0
55	MG	BA	3412	1/1	0.91	0.25	50,50,50,50	0
55	MG	BA	3327	1/1	0.91	0.24	91,91,91,91	0
55	MG	CA	1696	1/1	0.91	0.17	90,90,90,90	0
55	MG	AA	3277	1/1	0.91	0.11	82,82,82,82	0
55	MG	AA	3337	1/1	0.91	0.22	99,99,99,99	0
55	MG	AA	3574	1/1	0.91	0.21	54,54,54,54	0
55	MG	DA	1694	1/1	0.91	0.34	84,84,84,84	0
55	MG	BA	3417	1/1	0.91	0.12	88,88,88,88	0
55	MG	CA	1705	1/1	0.91	0.08	95,95,95,95	0
55	MG	DA	1701	1/1	0.91	0.20	80,80,80,80	0
55	MG	BA	3213	1/1	0.91	0.20	75,75,75,75	0
55	MG	BA	3110	1/1	0.91	0.25	92,92,92,92	0
55	MG	DA	1704	1/1	0.91	0.24	87,87,87,87	0
55	MG	BA	3215	1/1	0.91	0.20	66,66,66,66	0
55	MG	AA	3503	1/1	0.91	0.23	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3504	1/1	0.91	0.23	80,80,80,80	0
55	MG	CA	1835	1/1	0.91	0.15	87,87,87,87	0
55	MG	BA	3527	1/1	0.91	0.25	97,97,97,97	0
55	MG	CA	1839	1/1	0.91	0.19	68,68,68,68	0
55	MG	AA	3028	1/1	0.91	0.23	54,54,54,54	0
55	MG	AA	3225	1/1	0.91	0.20	95,95,95,95	0
55	MG	BA	3425	1/1	0.91	0.30	85,85,85,85	0
55	MG	AA	3085	1/1	0.91	0.17	34,34,34,34	0
55	MG	BA	3339	1/1	0.91	0.16	90,90,90,90	0
55	MG	BA	3428	1/1	0.91	0.07	89,89,89,89	0
55	MG	CT	201	1/1	0.91	0.16	102,102,102,102	0
55	MG	BA	3053	1/1	0.91	0.20	65,65,65,65	0
55	MG	BA	3231	1/1	0.91	0.27	47,47,47,47	0
55	MG	DA	1721	1/1	0.91	0.24	71,71,71,71	0
55	MG	CB	103	1/1	0.91	0.09	110,110,110,110	0
55	MG	DA	1723	1/1	0.91	0.17	83,83,83,83	0
55	MG	BB	211	1/1	0.91	0.28	71,71,71,71	0
55	MG	BA	3119	1/1	0.91	0.10	79,79,79,79	0
55	MG	BA	3235	1/1	0.91	0.19	74,74,74,74	0
55	MG	AA	3130	1/1	0.91	0.14	67,67,67,67	0
55	MG	AA	3256	1/1	0.91	0.13	66,66,66,66	0
55	MG	AA	3590	1/1	0.91	0.25	81,81,81,81	0
55	MG	CC	105	1/1	0.91	0.10	105,105,105,105	0
55	MG	DA	1732	1/1	0.91	0.16	94,94,94,94	0
55	MG	CC	106	1/1	0.91	0.17	92,92,92,92	0
55	MG	BA	3057	1/1	0.91	0.21	97,97,97,97	0
55	MG	BA	3440	1/1	0.91	0.08	80,80,80,80	0
55	MG	AA	3592	1/1	0.91	0.19	76,76,76,76	0
55	MG	AA	3074	1/1	0.91	0.30	68,68,68,68	0
55	MG	BA	3350	1/1	0.91	0.29	77,77,77,77	0
55	MG	CA	1612	1/1	0.91	0.09	102,102,102,102	0
55	MG	BA	3351	1/1	0.91	0.29	81,81,81,81	0
55	MG	AA	3471	1/1	0.91	0.22	85,85,85,85	0
55	MG	BA	3354	1/1	0.91	0.16	90,90,90,90	0
55	MG	AA	3346	1/1	0.91	0.24	88,88,88,88	0
55	MG	DA	1610	1/1	0.91	0.12	97,97,97,97	0
55	MG	AA	3440	1/1	0.91	0.24	87,87,87,87	0
55	MG	BA	3065	1/1	0.91	0.25	101,101,101,101	0
55	MG	CA	1622	1/1	0.91	0.10	86,86,86,86	0
55	MG	BA	3146	1/1	0.91	0.19	86,86,86,86	0
55	MG	DA	1758	1/1	0.91	0.28	109,109,109,109	0
55	MG	AA	3166	1/1	0.91	0.18	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3361	1/1	0.91	0.14	88,88,88,88	0
55	MG	BA	3149	1/1	0.91	0.15	72,72,72,72	0
55	MG	CA	1629	1/1	0.91	0.10	95,95,95,95	0
55	MG	BA	3067	1/1	0.91	0.09	74,74,74,74	0
55	MG	AA	3442	1/1	0.91	0.20	78,78,78,78	0
55	MG	AA	3477	1/1	0.91	0.25	86,86,86,86	0
55	MG	AA	3040	1/1	0.91	0.22	68,68,68,68	0
55	MG	BA	3461	1/1	0.91	0.12	83,83,83,83	0
55	MG	AA	3527	1/1	0.91	0.12	86,86,86,86	0
55	MG	CA	1761	1/1	0.91	0.17	66,66,66,66	0
55	MG	BA	3276	1/1	0.91	0.12	88,88,88,88	0
55	MG	AA	3528	1/1	0.91	0.24	76,76,76,76	0
55	MG	AA	3176	1/1	0.91	0.10	74,74,74,74	0
55	MG	AA	3064	1/1	0.91	0.05	79,79,79,79	0
55	MG	BA	3280	1/1	0.91	0.36	74,74,74,74	0
55	MG	AA	3615	1/1	0.91	0.09	102,102,102,102	0
55	MG	AA	3353	1/1	0.91	0.27	86,86,86,86	0
55	MG	BA	3379	1/1	0.91	0.22	84,84,84,84	0
55	MG	AA	3239	1/1	0.91	0.14	60,60,60,60	0
55	MG	AA	3292	1/1	0.91	0.21	76,76,76,76	0
55	MG	DA	1639	1/1	0.91	0.19	78,78,78,78	0
55	MG	BA	3022	1/1	0.91	0.11	75,75,75,75	0
55	MG	BA	3024	1/1	0.91	0.13	110,110,110,110	0
55	MG	CA	1658	1/1	0.91	0.18	50,50,50,50	0
55	MG	CA	1660	1/1	0.91	0.18	64,64,64,64	0
55	MG	BA	3085	1/1	0.91	0.27	74,74,74,74	0
55	MG	CA	1665	1/1	0.91	0.35	74,74,74,74	0
55	MG	AA	3241	1/1	0.91	0.30	80,80,80,80	0
55	MG	CA	1669	1/1	0.91	0.18	70,70,70,70	0
55	MG	AA	3180	1/1	0.91	0.21	64,64,64,64	0
55	MG	BA	3484	1/1	0.91	0.23	65,65,65,65	0
55	MG	CA	1673	1/1	0.91	0.20	76,76,76,76	0
55	MG	CA	1674	1/1	0.91	0.20	102,102,102,102	0
55	MG	AA	3326	1/1	0.91	0.11	64,64,64,64	0
55	MG	AA	3008	1/1	0.91	0.21	44,44,44,44	0
55	MG	BA	3180	1/1	0.91	0.23	57,57,57,57	0
55	MG	BA	3183	1/1	0.91	0.13	80,80,80,80	0
55	MG	AA	3141	1/1	0.91	0.23	50,50,50,50	0
55	MG	AA	3066	1/1	0.91	0.24	48,48,48,48	0
55	MG	AA	3495	1/1	0.91	0.25	90,90,90,90	0
55	MG	CA	1682	1/1	0.91	0.15	106,106,106,106	0
55	MG	AB	201	1/1	0.91	0.24	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3249	1/1	0.91	0.32	76,76,76,76	0
55	MG	AA	3240	1/1	0.92	0.13	80,80,80,80	0
55	MG	BA	3483	1/1	0.92	0.18	34,34,34,34	0
55	MG	AA	3266	1/1	0.92	0.28	49,49,49,49	0
55	MG	CA	1645	1/1	0.92	0.26	60,60,60,60	0
55	MG	AA	3172	1/1	0.92	0.12	94,94,94,94	0
55	MG	AA	3507	1/1	0.92	0.25	99,99,99,99	0
55	MG	BA	3240	1/1	0.92	0.24	72,72,72,72	0
55	MG	CA	1650	1/1	0.92	0.25	73,73,73,73	0
55	MG	AA	3411	1/1	0.92	0.22	85,85,85,85	0
55	MG	AA	3561	1/1	0.92	0.11	82,82,82,82	0
55	MG	AA	3044	1/1	0.92	0.26	52,52,52,52	0
55	MG	BA	3245	1/1	0.92	0.20	72,72,72,72	0
55	MG	BA	3499	1/1	0.92	0.12	78,78,78,78	0
55	MG	AA	3001	1/1	0.92	0.28	44,44,44,44	0
55	MG	BA	3247	1/1	0.92	0.26	74,74,74,74	0
55	MG	BA	3248	1/1	0.92	0.18	54,54,54,54	0
55	MG	BA	3087	1/1	0.92	0.30	80,80,80,80	0
55	MG	AA	3297	1/1	0.92	0.11	69,69,69,69	0
55	MG	CA	1668	1/1	0.92	0.38	79,79,79,79	0
55	MG	BA	3257	1/1	0.92	0.35	86,86,86,86	0
55	MG	BA	3258	1/1	0.92	0.19	64,64,64,64	0
55	MG	BA	3089	1/1	0.92	0.14	83,83,83,83	0
55	MG	BA	3261	1/1	0.92	0.19	65,65,65,65	0
55	MG	AA	3125	1/1	0.92	0.24	55,55,55,55	0
55	MG	AA	3037	1/1	0.92	0.25	69,69,69,69	0
55	MG	AA	3417	1/1	0.92	0.07	67,67,67,67	0
55	MG	AA	3515	1/1	0.92	0.31	77,77,77,77	0
55	MG	BA	3042	1/1	0.92	0.10	86,86,86,86	0
55	MG	BA	3171	1/1	0.92	0.14	63,63,63,63	0
55	MG	DA	1733	1/1	0.92	0.20	98,98,98,98	0
55	MG	BA	3271	1/1	0.92	0.18	84,84,84,84	0
55	MG	DA	1735	1/1	0.92	0.23	106,106,106,106	0
55	MG	DA	1736	1/1	0.92	0.21	65,65,65,65	0
55	MG	AA	3519	1/1	0.92	0.10	53,53,53,53	0
55	MG	AA	3027	1/1	0.92	0.19	45,45,45,45	0
55	MG	AA	3057	1/1	0.92	0.23	66,66,66,66	0
55	MG	AA	3131	1/1	0.92	0.18	90,90,90,90	0
55	MG	DA	1742	1/1	0.92	0.20	82,82,82,82	0
55	MG	AA	3156	1/1	0.92	0.17	94,94,94,94	0
55	MG	BA	3103	1/1	0.92	0.17	82,82,82,82	0
55	MG	BB	201	1/1	0.92	0.09	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3049	1/1	0.92	0.11	86,86,86,86	0
55	MG	BA	3105	1/1	0.92	0.32	81,81,81,81	0
55	MG	BA	3184	1/1	0.92	0.14	76,76,76,76	0
55	MG	CA	1691	1/1	0.92	0.16	56,56,56,56	0
55	MG	BA	3362	1/1	0.92	0.07	71,71,71,71	0
55	MG	AA	3595	1/1	0.92	0.30	79,79,79,79	0
55	MG	CA	1796	1/1	0.92	0.20	82,82,82,82	0
55	MG	CA	1797	1/1	0.92	0.16	93,93,93,93	0
55	MG	AA	3597	1/1	0.92	0.17	91,91,91,91	0
55	MG	AF	301	1/1	0.92	0.14	80,80,80,80	0
55	MG	AA	3306	1/1	0.92	0.21	65,65,65,65	0
55	MG	BA	3289	1/1	0.92	0.19	70,70,70,70	0
55	MG	BA	3448	1/1	0.92	0.10	85,85,85,85	0
55	MG	AA	3163	1/1	0.92	0.12	55,55,55,55	0
55	MG	AA	3455	1/1	0.92	0.25	49,49,49,49	0
55	MG	CA	1806	1/1	0.92	0.10	62,62,62,62	0
55	MG	AA	3530	1/1	0.92	0.13	79,79,79,79	0
55	MG	AA	3058	1/1	0.92	0.20	64,64,64,64	0
55	MG	CA	1813	1/1	0.92	0.10	94,94,94,94	0
55	MG	B3	101	1/1	0.92	0.12	76,76,76,76	0
55	MG	CA	1712	1/1	0.92	0.14	92,92,92,92	0
55	MG	CA	1601	1/1	0.92	0.16	56,56,56,56	0
55	MG	DA	1772	1/1	0.92	0.17	68,68,68,68	0
55	MG	BA	3297	1/1	0.92	0.13	63,63,63,63	0
55	MG	AA	3013	1/1	0.92	0.13	44,44,44,44	0
55	MG	AA	3533	1/1	0.92	0.12	67,67,67,67	0
55	MG	AA	3534	1/1	0.92	0.17	49,49,49,49	0
55	MG	BA	3458	1/1	0.92	0.09	71,71,71,71	0
55	MG	BA	3302	1/1	0.92	0.20	75,75,75,75	0
55	MG	DA	1665	1/1	0.92	0.26	82,82,82,82	0
55	MG	CA	1722	1/1	0.92	0.21	74,74,74,74	0
55	MG	AA	3311	1/1	0.92	0.20	68,68,68,68	0
55	MG	DA	1785	1/1	0.92	0.17	93,93,93,93	0
55	MG	AA	3494	1/1	0.92	0.21	88,88,88,88	0
55	MG	CA	1827	1/1	0.92	0.10	89,89,89,89	0
55	MG	AA	3016	1/1	0.92	0.16	48,48,48,48	0
55	MG	AA	3234	1/1	0.92	0.12	82,82,82,82	0
55	MG	AA	3167	1/1	0.92	0.26	50,50,50,50	0
55	MG	AA	3544	1/1	0.92	0.22	63,63,63,63	0
55	MG	BA	3310	1/1	0.92	0.17	74,74,74,74	0
55	MG	DA	1797	1/1	0.92	0.22	85,85,85,85	0
55	MG	AA	3285	1/1	0.92	0.23	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3168	1/1	0.92	0.25	68,68,68,68	0
55	MG	CA	1732	1/1	0.92	0.18	69,69,69,69	0
55	MG	AA	3169	1/1	0.92	0.17	89,89,89,89	0
55	MG	BA	3394	1/1	0.92	0.26	88,88,88,88	0
55	MG	DA	1685	1/1	0.92	0.33	72,72,72,72	0
55	MG	BA	3314	1/1	0.92	0.16	71,71,71,71	0
55	MG	BA	3223	1/1	0.92	0.20	64,64,64,64	0
55	MG	CA	1634	1/1	0.92	0.20	60,60,60,60	0
55	MG	DS	101	1/1	0.92	0.26	87,87,87,87	0
55	MG	CN	201	1/1	0.92	0.10	78,78,78,78	0
55	MG	BA	3139	1/1	0.92	0.14	58,58,58,58	0
55	MG	BA	3318	1/1	0.92	0.07	89,89,89,89	0
55	MG	AA	3406	1/1	0.92	0.13	83,83,83,83	0
55	MG	BA	3477	1/1	0.92	0.15	94,94,94,94	0
55	MG	AA	3171	1/1	0.92	0.08	84,84,84,84	0
56	PAR	DA	1805	42/42	0.92	0.07	46,59,73,84	0
57	ZN	CG	303	1/1	0.92	0.24	95,95,95,95	0
55	MG	BA	3481	1/1	0.93	0.18	49,49,49,49	0
55	MG	BA	3230	1/1	0.93	0.16	68,68,68,68	0
55	MG	AA	3246	1/1	0.93	0.27	73,73,73,73	0
55	MG	CA	1642	1/1	0.93	0.19	69,69,69,69	0
55	MG	BA	3145	1/1	0.93	0.23	53,53,53,53	0
55	MG	CA	1744	1/1	0.93	0.29	57,57,57,57	0
55	MG	DA	1707	1/1	0.93	0.15	95,95,95,95	0
55	MG	AA	3214	1/1	0.93	0.30	47,47,47,47	0
55	MG	AA	3215	1/1	0.93	0.16	79,79,79,79	0
55	MG	BA	3491	1/1	0.93	0.08	49,49,49,49	0
55	MG	AA	3086	1/1	0.93	0.32	62,62,62,62	0
55	MG	AA	3565	1/1	0.93	0.26	53,53,53,53	0
55	MG	AA	3569	1/1	0.93	0.18	60,60,60,60	0
55	MG	BA	3497	1/1	0.93	0.19	63,63,63,63	0
55	MG	BA	3411	1/1	0.93	0.29	83,83,83,83	0
55	MG	AA	3116	1/1	0.93	0.24	37,37,37,37	0
55	MG	BA	3244	1/1	0.93	0.21	54,54,54,54	0
55	MG	BA	3153	1/1	0.93	0.28	77,77,77,77	0
55	MG	CA	1656	1/1	0.93	0.26	88,88,88,88	0
55	MG	AA	3476	1/1	0.93	0.23	79,79,79,79	0
55	MG	AA	3220	1/1	0.93	0.17	70,70,70,70	0
55	MG	AA	3577	1/1	0.93	0.09	52,52,52,52	0
55	MG	AA	3026	1/1	0.93	0.08	40,40,40,40	0
55	MG	BA	3253	1/1	0.93	0.23	66,66,66,66	0
55	MG	BA	3255	1/1	0.93	0.23	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3101	1/1	0.93	0.13	79,79,79,79	0
55	MG	AA	3344	1/1	0.93	0.21	68,68,68,68	0
55	MG	BA	3515	1/1	0.93	0.15	59,59,59,59	0
55	MG	AA	3314	1/1	0.93	0.22	80,80,80,80	0
55	MG	AA	3186	1/1	0.93	0.12	58,58,58,58	0
55	MG	AA	3379	1/1	0.93	0.23	66,66,66,66	0
55	MG	BA	3262	1/1	0.93	0.06	94,94,94,94	0
55	MG	CA	1772	1/1	0.93	0.07	83,83,83,83	0
55	MG	BA	3167	1/1	0.93	0.22	59,59,59,59	0
55	MG	AA	3133	1/1	0.93	0.22	46,46,46,46	0
55	MG	AA	3090	1/1	0.93	0.18	45,45,45,45	0
55	MG	BA	3046	1/1	0.93	0.18	83,83,83,83	0
55	MG	CA	1777	1/1	0.93	0.16	92,92,92,92	0
55	MG	AA	3190	1/1	0.93	0.09	58,58,58,58	0
55	MG	AA	3596	1/1	0.93	0.19	93,93,93,93	0
55	MG	AE	303	1/1	0.93	0.09	91,91,91,91	0
55	MG	AA	3034	1/1	0.93	0.25	52,52,52,52	0
55	MG	AA	3014	1/1	0.93	0.19	38,38,38,38	0
55	MG	AA	3233	1/1	0.93	0.12	55,55,55,55	0
55	MG	BA	3182	1/1	0.93	0.14	47,47,47,47	0
55	MG	CA	1786	1/1	0.93	0.10	74,74,74,74	0
55	MG	AA	3070	1/1	0.93	0.20	68,68,68,68	0
55	MG	DA	1752	1/1	0.93	0.21	89,89,89,89	0
55	MG	AA	3009	1/1	0.93	0.17	63,63,63,63	0
55	MG	DA	1632	1/1	0.93	0.12	84,84,84,84	0
55	MG	DA	1755	1/1	0.93	0.23	79,79,79,79	0
55	MG	CA	1790	1/1	0.93	0.06	89,89,89,89	0
55	MG	BA	3360	1/1	0.93	0.21	83,83,83,83	0
55	MG	AA	3496	1/1	0.93	0.17	87,87,87,87	0
55	MG	AA	3029	1/1	0.93	0.11	46,46,46,46	0
55	MG	AA	3605	1/1	0.93	0.28	72,72,72,72	0
55	MG	BA	3191	1/1	0.93	0.28	77,77,77,77	0
55	MG	BA	3192	1/1	0.93	0.26	72,72,72,72	0
55	MG	BA	3286	1/1	0.93	0.12	85,85,85,85	0
55	MG	CA	1697	1/1	0.93	0.22	92,92,92,92	0
55	MG	BA	3112	1/1	0.93	0.12	69,69,69,69	0
55	MG	CA	1700	1/1	0.93	0.11	72,72,72,72	0
55	MG	BA	3113	1/1	0.93	0.17	84,84,84,84	0
55	MG	AA	3147	1/1	0.93	0.29	89,89,89,89	0
55	MG	BA	3059	1/1	0.93	0.15	50,50,50,50	0
55	MG	BA	3291	1/1	0.93	0.31	67,67,67,67	0
55	MG	AA	3113	1/1	0.93	0.27	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	CA	1710	1/1	0.93	0.20	81,81,81,81	0
55	MG	CA	1812	1/1	0.93	0.27	84,84,84,84	0
55	MG	BA	3002	1/1	0.93	0.17	66,66,66,66	0
55	MG	BA	3376	1/1	0.93	0.17	65,65,65,65	0
55	MG	CA	1713	1/1	0.93	0.18	83,83,83,83	0
55	MG	CA	1608	1/1	0.93	0.15	68,68,68,68	0
55	MG	AA	3360	1/1	0.93	0.18	63,63,63,63	0
55	MG	AA	3204	1/1	0.93	0.18	44,44,44,44	0
55	MG	BA	3204	1/1	0.93	0.23	74,74,74,74	0
55	MG	BA	3205	1/1	0.93	0.19	70,70,70,70	0
55	MG	BA	3381	1/1	0.93	0.24	80,80,80,80	0
55	MG	DA	1786	1/1	0.93	0.23	86,86,86,86	0
55	MG	AA	3207	1/1	0.93	0.09	50,50,50,50	0
55	MG	BA	3207	1/1	0.93	0.15	46,46,46,46	0
55	MG	DA	1789	1/1	0.93	0.14	77,77,77,77	0
55	MG	CA	1620	1/1	0.93	0.12	74,74,74,74	0
55	MG	DA	1792	1/1	0.93	0.14	81,81,81,81	0
55	MG	BA	3208	1/1	0.93	0.18	57,57,57,57	0
55	MG	DA	1675	1/1	0.93	0.27	60,60,60,60	0
55	MG	CA	1826	1/1	0.93	0.19	81,81,81,81	0
55	MG	AA	3395	1/1	0.93	0.19	80,80,80,80	0
55	MG	AA	3552	1/1	0.93	0.28	83,83,83,83	0
55	MG	DA	1679	1/1	0.93	0.29	64,64,64,64	0
55	MG	BA	3014	1/1	0.93	0.17	72,72,72,72	0
55	MG	AA	3004	1/1	0.93	0.19	40,40,40,40	0
55	MG	CA	1626	1/1	0.93	0.13	88,88,88,88	0
55	MG	BA	3071	1/1	0.93	0.13	78,78,78,78	0
55	MG	BA	3132	1/1	0.93	0.17	54,54,54,54	0
55	MG	AA	3430	1/1	0.93	0.07	105,105,105,105	0
55	MG	CA	1631	1/1	0.93	0.07	74,74,74,74	0
55	MG	CA	1836	1/1	0.93	0.10	71,71,71,71	0
55	MG	CA	1837	1/1	0.93	0.20	88,88,88,88	0
55	MG	DA	1691	1/1	0.93	0.25	82,82,82,82	0
55	MG	AA	3332	1/1	0.93	0.10	62,62,62,62	0
55	MG	BA	3137	1/1	0.93	0.19	48,48,48,48	0
55	MG	DC	104	1/1	0.93	0.20	102,102,102,102	0
55	MG	AA	3150	1/1	0.93	0.29	59,59,59,59	0
55	MG	BA	3141	1/1	0.93	0.17	72,72,72,72	0
55	MG	DA	1697	1/1	0.93	0.07	111,111,111,111	0
55	MG	AA	3334	1/1	0.93	0.36	76,76,76,76	0
55	MG	DA	1700	1/1	0.93	0.22	94,94,94,94	0
55	MG	AA	3188	1/1	0.94	0.27	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3111	1/1	0.94	0.26	36,36,36,36	0
55	MG	CA	1706	1/1	0.94	0.14	91,91,91,91	0
55	MG	AA	3025	1/1	0.94	0.18	40,40,40,40	0
55	MG	CA	1795	1/1	0.94	0.13	68,68,68,68	0
55	MG	DA	1622	1/1	0.94	0.10	98,98,98,98	0
55	MG	DA	1724	1/1	0.94	0.28	72,72,72,72	0
55	MG	BA	3250	1/1	0.94	0.16	58,58,58,58	0
55	MG	BA	3403	1/1	0.94	0.13	77,77,77,77	0
55	MG	A5	102	1/1	0.94	0.23	83,83,83,83	0
55	MG	AA	3299	1/1	0.94	0.16	79,79,79,79	0
55	MG	BA	3001	1/1	0.94	0.16	64,64,64,64	0
55	MG	BA	3480	1/1	0.94	0.18	56,56,56,56	0
55	MG	AA	3010	1/1	0.94	0.19	47,47,47,47	0
55	MG	AA	3192	1/1	0.94	0.18	63,63,63,63	0
55	MG	AA	3563	1/1	0.94	0.18	52,52,52,52	0
55	MG	BA	3259	1/1	0.94	0.15	54,54,54,54	0
55	MG	CA	1807	1/1	0.94	0.19	64,64,64,64	0
55	MG	AA	3302	1/1	0.94	0.16	104,104,104,104	0
55	MG	DA	1737	1/1	0.94	0.25	74,74,74,74	0
55	MG	AA	3153	1/1	0.94	0.14	48,48,48,48	0
55	MG	CA	1811	1/1	0.94	0.18	95,95,95,95	0
55	MG	AA	3622	1/1	0.94	0.18	65,65,65,65	0
55	MG	DA	1638	1/1	0.94	0.15	74,74,74,74	0
55	MG	BA	3013	1/1	0.94	0.16	74,74,74,74	0
55	MG	AA	3223	1/1	0.94	0.27	71,71,71,71	0
55	MG	BA	3015	1/1	0.94	0.15	71,71,71,71	0
55	MG	BA	3120	1/1	0.94	0.17	81,81,81,81	0
55	MG	AA	3135	1/1	0.94	0.12	66,66,66,66	0
55	MG	BA	3069	1/1	0.94	0.11	70,70,70,70	0
55	MG	DA	1646	1/1	0.94	0.18	65,65,65,65	0
55	MG	AA	3484	1/1	0.94	0.09	44,44,44,44	0
55	MG	AA	3071	1/1	0.94	0.23	56,56,56,56	0
55	MG	DA	1653	1/1	0.94	0.15	96,96,96,96	0
55	MG	AA	3226	1/1	0.94	0.13	77,77,77,77	0
55	MG	BA	3197	1/1	0.94	0.07	76,76,76,76	0
55	MG	AA	3157	1/1	0.94	0.19	39,39,39,39	0
55	MG	BA	3130	1/1	0.94	0.13	44,44,44,44	0
55	MG	AA	3281	1/1	0.94	0.21	74,74,74,74	0
55	MG	AA	3310	1/1	0.94	0.12	65,65,65,65	0
55	MG	BA	3510	1/1	0.94	0.24	67,67,67,67	0
55	MG	BA	3511	1/1	0.94	0.26	68,68,68,68	0
55	MG	BA	3203	1/1	0.94	0.23	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3458	1/1	0.94	0.14	70,70,70,70	0
55	MG	AA	3181	1/1	0.94	0.17	66,66,66,66	0
55	MG	BA	3029	1/1	0.94	0.23	75,75,75,75	0
55	MG	AA	3588	1/1	0.94	0.17	68,68,68,68	0
55	MG	CA	1659	1/1	0.94	0.11	71,71,71,71	0
55	MG	AA	3229	1/1	0.94	0.09	89,89,89,89	0
55	MG	BA	3143	1/1	0.94	0.13	63,63,63,63	0
55	MG	CA	1662	1/1	0.94	0.28	81,81,81,81	0
55	MG	DA	1673	1/1	0.94	0.13	88,88,88,88	0
55	MG	AA	3201	1/1	0.94	0.15	85,85,85,85	0
55	MG	DA	1773	1/1	0.94	0.28	69,69,69,69	0
55	MG	CA	1666	1/1	0.94	0.18	70,70,70,70	0
55	MG	AA	3022	1/1	0.94	0.12	49,49,49,49	0
55	MG	AA	3139	1/1	0.94	0.13	54,54,54,54	0
55	MG	BA	3147	1/1	0.94	0.22	63,63,63,63	0
55	MG	BA	3219	1/1	0.94	0.13	48,48,48,48	0
55	MG	CA	1671	1/1	0.94	0.09	72,72,72,72	0
55	MG	AA	3464	1/1	0.94	0.22	83,83,83,83	0
55	MG	AA	3205	1/1	0.94	0.23	55,55,55,55	0
55	MG	AA	3374	1/1	0.94	0.16	74,74,74,74	0
55	MG	AA	3543	1/1	0.94	0.25	46,46,46,46	0
55	MG	BA	3224	1/1	0.94	0.16	51,51,51,51	0
55	MG	AA	3073	1/1	0.94	0.37	97,97,97,97	0
55	MG	DA	1687	1/1	0.94	0.25	72,72,72,72	0
55	MG	AD	301	1/1	0.94	0.07	99,99,99,99	0
55	MG	BA	3227	1/1	0.94	0.30	50,50,50,50	0
55	MG	BA	3452	1/1	0.94	0.07	96,96,96,96	0
55	MG	AE	301	1/1	0.94	0.14	65,65,65,65	0
55	MG	AA	3436	1/1	0.94	0.17	66,66,66,66	0
55	MG	AA	3054	1/1	0.94	0.24	62,62,62,62	0
55	MG	BA	3097	1/1	0.94	0.11	60,60,60,60	0
55	MG	BA	3309	1/1	0.94	0.23	80,80,80,80	0
55	MG	AA	3210	1/1	0.94	0.18	72,72,72,72	0
55	MG	DA	1799	1/1	0.94	0.18	68,68,68,68	0
55	MG	BA	3237	1/1	0.94	0.16	47,47,47,47	0
55	MG	BE	302	1/1	0.94	0.14	76,76,76,76	0
55	MG	BA	3238	1/1	0.94	0.29	66,66,66,66	0
55	MG	DA	1602	1/1	0.94	0.22	85,85,85,85	0
55	MG	BA	3160	1/1	0.94	0.18	82,82,82,82	0
55	MG	AF	302	1/1	0.94	0.13	93,93,93,93	0
55	MG	BA	3315	1/1	0.94	0.14	91,91,91,91	0
55	MG	AA	3038	1/1	0.94	0.34	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3350	1/1	0.94	0.12	90,90,90,90	0
55	MG	DA	1608	1/1	0.94	0.15	92,92,92,92	0
55	MG	BA	3466	1/1	0.94	0.11	73,73,73,73	0
55	MG	AA	3061	1/1	0.94	0.19	79,79,79,79	0
55	MG	DC	102	1/1	0.94	0.18	74,74,74,74	0
55	MG	BA	3165	1/1	0.94	0.18	42,42,42,42	0
55	MG	CA	1611	1/1	0.94	0.15	97,97,97,97	0
55	MG	BA	3323	1/1	0.94	0.27	74,74,74,74	0
55	MG	AA	3555	1/1	0.94	0.18	67,67,67,67	0
55	MG	CA	1702	1/1	0.94	0.09	71,71,71,71	0
55	MG	BA	3325	1/1	0.94	0.29	50,50,50,50	0
55	MG	AA	3093	1/1	0.95	0.26	65,65,65,65	0
55	MG	AA	3545	1/1	0.95	0.15	75,75,75,75	0
55	MG	BA	3178	1/1	0.95	0.19	62,62,62,62	0
55	MG	CA	1657	1/1	0.95	0.18	63,63,63,63	0
55	MG	BA	3026	1/1	0.95	0.21	72,72,72,72	0
55	MG	AA	3238	1/1	0.95	0.24	82,82,82,82	0
55	MG	AA	3112	1/1	0.95	0.34	45,45,45,45	0
55	MG	DA	1645	1/1	0.95	0.19	51,51,51,51	0
55	MG	AA	3015	1/1	0.95	0.20	44,44,44,44	0
55	MG	AA	3011	1/1	0.95	0.20	37,37,37,37	0
55	MG	DA	1651	1/1	0.95	0.17	72,72,72,72	0
55	MG	CA	1663	1/1	0.95	0.09	52,52,52,52	0
55	MG	BA	3382	1/1	0.95	0.18	89,89,89,89	0
55	MG	BA	3185	1/1	0.95	0.24	68,68,68,68	0
55	MG	BB	203	1/1	0.95	0.17	76,76,76,76	0
55	MG	AA	3005	1/1	0.95	0.14	25,25,25,25	0
55	MG	CA	1749	1/1	0.95	0.13	62,62,62,62	0
55	MG	BA	3252	1/1	0.95	0.20	86,86,86,86	0
55	MG	AA	3485	1/1	0.95	0.19	71,71,71,71	0
55	MG	BA	3128	1/1	0.95	0.11	56,56,56,56	0
55	MG	BA	3388	1/1	0.95	0.22	87,87,87,87	0
55	MG	AA	3331	1/1	0.95	0.20	76,76,76,76	0
55	MG	AA	3516	1/1	0.95	0.20	76,76,76,76	0
55	MG	BA	3391	1/1	0.95	0.10	95,95,95,95	0
55	MG	AA	3606	1/1	0.95	0.26	61,61,61,61	0
55	MG	BA	3134	1/1	0.95	0.15	63,63,63,63	0
55	MG	AA	3517	1/1	0.95	0.07	66,66,66,66	0
55	MG	BA	3038	1/1	0.95	0.22	78,78,78,78	0
55	MG	BA	3138	1/1	0.95	0.16	52,52,52,52	0
55	MG	BR	201	1/1	0.95	0.05	77,77,77,77	0
55	MG	AA	3263	1/1	0.95	0.16	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3434	1/1	0.95	0.24	44,44,44,44	0
55	MG	AA	3243	1/1	0.95	0.17	51,51,51,51	0
55	MG	B5	101	1/1	0.95	0.18	61,61,61,61	0
55	MG	AO	202	1/1	0.95	0.33	80,80,80,80	0
55	MG	CA	1603	1/1	0.95	0.15	73,73,73,73	0
55	MG	CA	1769	1/1	0.95	0.04	79,79,79,79	0
55	MG	BA	3268	1/1	0.95	0.11	59,59,59,59	0
55	MG	AA	3105	1/1	0.95	0.19	61,61,61,61	0
55	MG	AA	3525	1/1	0.95	0.09	73,73,73,73	0
55	MG	AA	3267	1/1	0.95	0.16	62,62,62,62	0
55	MG	AA	3106	1/1	0.95	0.17	69,69,69,69	0
55	MG	AA	3568	1/1	0.95	0.13	49,49,49,49	0
55	MG	AA	3174	1/1	0.95	0.25	40,40,40,40	0
55	MG	BA	3409	1/1	0.95	0.19	71,71,71,71	0
55	MG	DA	1776	1/1	0.95	0.10	70,70,70,70	0
55	MG	AA	3570	1/1	0.95	0.20	41,41,41,41	0
55	MG	DA	1689	1/1	0.95	0.20	72,72,72,72	0
55	MG	AA	3387	1/1	0.95	0.34	80,80,80,80	0
55	MG	AA	3338	1/1	0.95	0.17	51,51,51,51	0
55	MG	BA	3100	1/1	0.95	0.27	66,66,66,66	0
55	MG	BA	3154	1/1	0.95	0.09	46,46,46,46	0
55	MG	BA	3216	1/1	0.95	0.18	56,56,56,56	0
55	MG	BA	3218	1/1	0.95	0.23	51,51,51,51	0
55	MG	DA	1696	1/1	0.95	0.19	66,66,66,66	0
55	MG	BA	3488	1/1	0.95	0.08	59,59,59,59	0
55	MG	AA	3158	1/1	0.95	0.10	68,68,68,68	0
55	MG	AA	3293	1/1	0.95	0.08	77,77,77,77	0
55	MG	CA	1789	1/1	0.95	0.06	71,71,71,71	0
55	MG	DA	1791	1/1	0.95	0.21	80,80,80,80	0
55	MG	AA	3581	1/1	0.95	0.10	36,36,36,36	0
55	MG	BA	3353	1/1	0.95	0.20	84,84,84,84	0
55	MG	AA	3294	1/1	0.95	0.39	93,93,93,93	0
55	MG	BA	3009	1/1	0.95	0.16	48,48,48,48	0
55	MG	AA	3162	1/1	0.95	0.18	45,45,45,45	0
55	MG	CA	1632	1/1	0.95	0.12	76,76,76,76	0
55	MG	BA	3012	1/1	0.95	0.27	63,63,63,63	0
55	MG	AA	3041	1/1	0.95	0.16	66,66,66,66	0
55	MG	CA	1717	1/1	0.95	0.14	69,69,69,69	0
55	MG	AA	3002	1/1	0.95	0.18	41,41,41,41	0
55	MG	CA	1800	1/1	0.95	0.10	104,104,104,104	0
55	MG	BA	3061	1/1	0.95	0.05	69,69,69,69	0
55	MG	AA	3195	1/1	0.95	0.16	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	BA	3016	1/1	0.95	0.06	56,56,56,56	0
55	MG	BA	3232	1/1	0.95	0.18	55,55,55,55	0
55	MG	BA	3432	1/1	0.95	0.20	88,88,88,88	0
55	MG	BA	3364	1/1	0.95	0.11	76,76,76,76	0
55	MG	AA	3539	1/1	0.95	0.15	49,49,49,49	0
55	MG	BA	3234	1/1	0.95	0.22	67,67,67,67	0
55	MG	AA	3217	1/1	0.95	0.07	64,64,64,64	0
55	MG	BA	3437	1/1	0.95	0.21	73,73,73,73	0
55	MG	DC	103	1/1	0.95	0.22	78,78,78,78	0
55	MG	BA	3236	1/1	0.95	0.32	41,41,41,41	0
55	MG	DC	105	1/1	0.95	0.22	75,75,75,75	0
55	MG	AA	3591	1/1	0.95	0.13	74,74,74,74	0
55	MG	BA	3173	1/1	0.95	0.24	50,50,50,50	0
55	MG	BA	3517	1/1	0.95	0.15	61,61,61,61	0
56	PAR	CA	1841	42/42	0.95	0.07	40,56,74,83	0
55	MG	AA	3082	1/1	0.95	0.21	50,50,50,50	0
55	MG	AA	3219	1/1	0.95	0.22	81,81,81,81	0
55	MG	AA	3607	1/1	0.96	0.14	44,44,44,44	0
55	MG	AA	3608	1/1	0.96	0.12	41,41,41,41	0
55	MG	AA	3352	1/1	0.96	0.14	52,52,52,52	0
55	MG	BA	3126	1/1	0.96	0.12	51,51,51,51	0
55	MG	AA	3170	1/1	0.96	0.15	41,41,41,41	0
55	MG	BA	3079	1/1	0.96	0.12	82,82,82,82	0
55	MG	AA	3152	1/1	0.96	0.28	58,58,58,58	0
55	MG	CA	1664	1/1	0.96	0.06	47,47,47,47	0
55	MG	BA	3186	1/1	0.96	0.23	52,52,52,52	0
55	MG	AA	3089	1/1	0.96	0.25	64,64,64,64	0
55	MG	BP	201	1/1	0.96	0.08	65,65,65,65	0
55	MG	AA	3572	1/1	0.96	0.27	54,54,54,54	0
55	MG	AA	3573	1/1	0.96	0.17	31,31,31,31	0
55	MG	A1	201	1/1	0.96	0.28	64,64,64,64	0
55	MG	BA	3366	1/1	0.96	0.23	76,76,76,76	0
55	MG	BA	3136	1/1	0.96	0.10	43,43,43,43	0
55	MG	BA	3086	1/1	0.96	0.49	82,82,82,82	0
55	MG	CA	1602	1/1	0.96	0.10	74,74,74,74	0
55	MG	AA	3154	1/1	0.96	0.28	52,52,52,52	0
55	MG	AA	3046	1/1	0.96	0.07	57,57,57,57	0
55	MG	BA	3254	1/1	0.96	0.31	69,69,69,69	0
55	MG	AA	3175	1/1	0.96	0.09	45,45,45,45	0
55	MG	BA	3430	1/1	0.96	0.05	89,89,89,89	0
55	MG	BA	3492	1/1	0.96	0.18	47,47,47,47	0
55	MG	AA	3128	1/1	0.96	0.17	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3031	1/1	0.96	0.20	52,52,52,52	0
55	MG	AA	3179	1/1	0.96	0.15	53,53,53,53	0
55	MG	BA	3319	1/1	0.96	0.26	68,68,68,68	0
55	MG	AA	3100	1/1	0.96	0.28	67,67,67,67	0
55	MG	BA	3321	1/1	0.96	0.04	59,59,59,59	0
55	MG	CA	1617	1/1	0.96	0.19	72,72,72,72	0
55	MG	AA	3143	1/1	0.96	0.16	35,35,35,35	0
55	MG	BA	3501	1/1	0.96	0.06	88,88,88,88	0
55	MG	AA	3488	1/1	0.96	0.07	93,93,93,93	0
55	MG	BA	3096	1/1	0.96	0.20	89,89,89,89	0
55	MG	AA	3144	1/1	0.96	0.25	45,45,45,45	0
55	MG	AA	3042	1/1	0.96	0.05	77,77,77,77	0
55	MG	BA	3006	1/1	0.96	0.07	47,47,47,47	0
55	MG	BA	3007	1/1	0.96	0.06	83,83,83,83	0
55	MG	AA	3589	1/1	0.96	0.12	60,60,60,60	0
55	MG	AA	3549	1/1	0.96	0.34	50,50,50,50	0
55	MG	AA	3550	1/1	0.96	0.22	39,39,39,39	0
55	MG	BA	3011	1/1	0.96	0.22	65,65,65,65	0
55	MG	DA	1647	1/1	0.96	0.10	71,71,71,71	0
55	MG	AA	3551	1/1	0.96	0.23	69,69,69,69	0
55	MG	BA	3514	1/1	0.96	0.24	51,51,51,51	0
55	MG	AA	3593	1/1	0.96	0.32	95,95,95,95	0
55	MG	AA	3146	1/1	0.96	0.17	65,65,65,65	0
55	MG	AA	3206	1/1	0.96	0.09	51,51,51,51	0
55	MG	AA	3012	1/1	0.96	0.17	40,40,40,40	0
55	MG	CA	1707	1/1	0.96	0.23	78,78,78,78	0
55	MG	BA	3017	1/1	0.96	0.19	50,50,50,50	0
55	MG	AA	3523	1/1	0.96	0.12	91,91,91,91	0
55	MG	AA	3208	1/1	0.96	0.12	44,44,44,44	0
55	MG	AA	3323	1/1	0.96	0.07	71,71,71,71	0
55	MG	BA	3166	1/1	0.96	0.16	40,40,40,40	0
55	MG	BA	3400	1/1	0.96	0.20	74,74,74,74	0
55	MG	AA	3069	1/1	0.96	0.11	64,64,64,64	0
55	MG	CA	1646	1/1	0.96	0.17	75,75,75,75	0
55	MG	BA	3168	1/1	0.96	0.14	60,60,60,60	0
55	MG	AA	3035	1/1	0.96	0.13	45,45,45,45	0
55	MG	BA	3023	1/1	0.96	0.26	70,70,70,70	0
55	MG	AA	3036	1/1	0.96	0.06	39,39,39,39	0
55	MG	BB	202	1/1	0.96	0.06	103,103,103,103	0
55	MG	DA	1671	1/1	0.96	0.24	77,77,77,77	0
55	MG	AA	3603	1/1	0.96	0.23	41,41,41,41	0
55	MG	AA	3257	1/1	0.96	0.15	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3212	1/1	0.96	0.13	52,52,52,52	0
55	MG	AA	3450	1/1	0.96	0.21	72,72,72,72	0
55	MG	AE	302	1/1	0.96	0.20	45,45,45,45	0
55	MG	DA	1749	1/1	0.96	0.20	101,101,101,101	0
57	ZN	CQ	103	1/1	0.96	0.08	144,144,144,144	0
57	ZN	DG	303	1/1	0.96	0.18	134,134,134,134	0
55	MG	CA	1641	1/1	0.97	0.10	65,65,65,65	0
55	MG	BA	3190	1/1	0.97	0.10	73,73,73,73	0
55	MG	BE	303	1/1	0.97	0.18	57,57,57,57	0
55	MG	BA	3129	1/1	0.97	0.10	41,41,41,41	0
55	MG	AA	3199	1/1	0.97	0.26	46,46,46,46	0
55	MG	AA	3200	1/1	0.97	0.21	71,71,71,71	0
55	MG	BA	3264	1/1	0.97	0.14	59,59,59,59	0
55	MG	DA	1779	1/1	0.97	0.20	91,91,91,91	0
55	MG	BA	3229	1/1	0.97	0.20	50,50,50,50	0
55	MG	AA	3562	1/1	0.97	0.12	82,82,82,82	0
55	MG	A5	101	1/1	0.97	0.11	51,51,51,51	0
55	MG	AB	210	1/1	0.97	0.37	65,65,65,65	0
55	MG	AA	3083	1/1	0.97	0.17	34,34,34,34	0
55	MG	A7	101	1/1	0.97	0.20	60,60,60,60	0
55	MG	AA	3202	1/1	0.97	0.13	46,46,46,46	0
55	MG	AA	3006	1/1	0.97	0.36	46,46,46,46	0
55	MG	BA	3169	1/1	0.97	0.19	56,56,56,56	0
55	MG	BA	3140	1/1	0.97	0.16	42,42,42,42	0
55	MG	CA	1610	1/1	0.97	0.17	54,54,54,54	0
55	MG	AA	3566	1/1	0.97	0.13	27,27,27,27	0
55	MG	AA	3140	1/1	0.97	0.17	67,67,67,67	0
55	MG	CA	1708	1/1	0.97	0.17	45,45,45,45	0
55	MG	BA	3031	1/1	0.97	0.20	60,60,60,60	0
55	MG	AA	3127	1/1	0.97	0.21	53,53,53,53	0
55	MG	AA	3287	1/1	0.97	0.20	69,69,69,69	0
55	MG	AA	3244	1/1	0.97	0.22	45,45,45,45	0
55	MG	CA	1808	1/1	0.97	0.17	67,67,67,67	0
55	MG	BA	3211	1/1	0.97	0.14	57,57,57,57	0
55	MG	AA	3265	1/1	0.97	0.11	95,95,95,95	0
55	MG	BA	3283	1/1	0.97	0.11	43,43,43,43	0
55	MG	BA	3482	1/1	0.97	0.13	65,65,65,65	0
55	MG	DA	1699	1/1	0.97	0.16	68,68,68,68	0
55	MG	DA	1648	1/1	0.97	0.11	69,69,69,69	0
55	MG	DA	1649	1/1	0.97	0.10	93,93,93,93	0
55	MG	BA	3284	1/1	0.97	0.07	61,61,61,61	0
55	MG	AA	3518	1/1	0.97	0.26	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3007	1/1	0.97	0.09	42,42,42,42	0
55	MG	BA	3486	1/1	0.97	0.13	30,30,30,30	0
55	MG	BA	3487	1/1	0.97	0.10	66,66,66,66	0
55	MG	AA	3520	1/1	0.97	0.20	68,68,68,68	0
55	MG	AA	3491	1/1	0.97	0.16	85,85,85,85	0
55	MG	BA	3217	1/1	0.97	0.10	39,39,39,39	0
55	MG	AA	3578	1/1	0.97	0.19	50,50,50,50	0
55	MG	AA	3579	1/1	0.97	0.10	39,39,39,39	0
55	MG	AA	3538	1/1	0.97	0.17	36,36,36,36	0
55	MG	BA	3295	1/1	0.97	0.09	58,58,58,58	0
55	MG	AA	3582	1/1	0.97	0.14	44,44,44,44	0
55	MG	AA	3399	1/1	0.97	0.13	60,60,60,60	0
55	MG	AA	3161	1/1	0.97	0.15	42,42,42,42	0
55	MG	AA	3541	1/1	0.97	0.12	48,48,48,48	0
55	MG	BA	3300	1/1	0.97	0.15	56,56,56,56	0
55	MG	BD	301	1/1	0.97	0.15	39,39,39,39	0
55	MG	BA	3493	1/1	0.98	0.13	39,39,39,39	0
55	MG	DA	1670	1/1	0.98	0.22	49,49,49,49	0
55	MG	AA	3159	1/1	0.98	0.05	28,28,28,28	0
55	MG	BA	3292	1/1	0.98	0.26	51,51,51,51	0
55	MG	CA	1606	1/1	0.98	0.07	94,94,94,94	0
55	MG	BA	3080	1/1	0.98	0.11	72,72,72,72	0
55	MG	BA	3322	1/1	0.98	0.16	79,79,79,79	0
55	MG	A7	102	1/1	0.98	0.23	68,68,68,68	0
55	MG	AA	3610	1/1	0.98	0.07	46,46,46,46	0
55	MG	AA	3160	1/1	0.98	0.12	32,32,32,32	0
55	MG	AA	3269	1/1	0.98	0.26	55,55,55,55	0
55	MG	AA	3230	1/1	0.98	0.07	34,34,34,34	0
55	MG	AA	3084	1/1	0.98	0.07	43,43,43,43	0
55	MG	AA	3580	1/1	0.98	0.06	78,78,78,78	0
55	MG	AA	3151	1/1	0.98	0.25	58,58,58,58	0
55	MG	BA	3198	1/1	0.98	0.13	44,44,44,44	0
55	MG	BA	3249	1/1	0.98	0.12	40,40,40,40	0
55	MG	CA	1619	1/1	0.98	0.14	59,59,59,59	0
55	MG	BA	3508	1/1	0.98	0.32	73,73,73,73	0
55	MG	BA	3131	1/1	0.98	0.10	49,49,49,49	0
55	MG	AA	3020	1/1	0.98	0.13	39,39,39,39	0
55	MG	AA	3400	1/1	0.98	0.20	39,39,39,39	0
55	MG	A0	201	1/1	0.98	0.11	62,62,62,62	0
55	MG	AA	3030	1/1	0.98	0.12	45,45,45,45	0
55	MG	BE	301	1/1	0.98	0.14	54,54,54,54	0
55	MG	CA	1627	1/1	0.98	0.13	65,65,65,65	0

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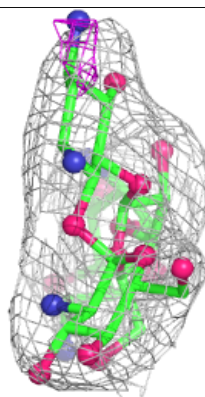
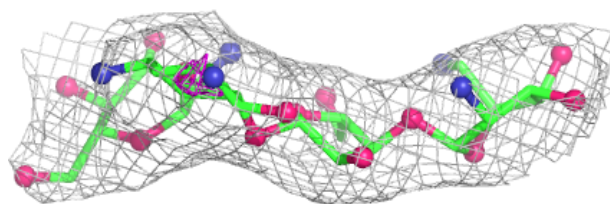
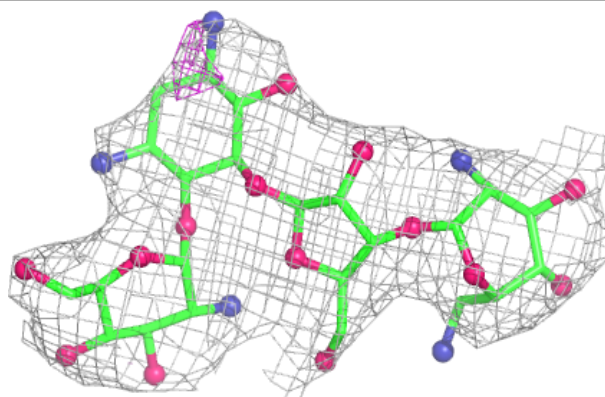
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
55	MG	AA	3021	1/1	0.98	0.15	42,42,42,42	0
55	MG	CA	1699	1/1	0.98	0.09	63,63,63,63	0
55	MG	BA	3181	1/1	0.98	0.09	49,49,49,49	0
55	MG	AA	3138	1/1	0.98	0.23	45,45,45,45	0
55	MG	AA	3088	1/1	0.98	0.09	42,42,42,42	0
55	MG	BA	3285	1/1	0.98	0.06	45,45,45,45	0
55	MG	AA	3571	1/1	0.98	0.10	52,52,52,52	0
55	MG	BA	3209	1/1	0.98	0.16	46,46,46,46	0
55	MG	AA	3213	1/1	0.98	0.26	59,59,59,59	0
55	MG	AA	3018	1/1	0.98	0.20	43,43,43,43	0
55	MG	CA	1780	1/1	0.98	0.22	55,55,55,55	0
55	MG	DA	1744	1/1	0.98	0.27	57,57,57,57	0
55	MG	AA	3053	1/1	0.98	0.45	67,67,67,67	0
55	MG	AA	3178	1/1	0.99	0.06	54,54,54,54	0
55	MG	AA	3567	1/1	0.99	0.14	39,39,39,39	0
55	MG	AA	3110	1/1	0.99	0.03	40,40,40,40	0
57	ZN	DQ	101	1/1	0.99	0.05	118,118,118,118	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

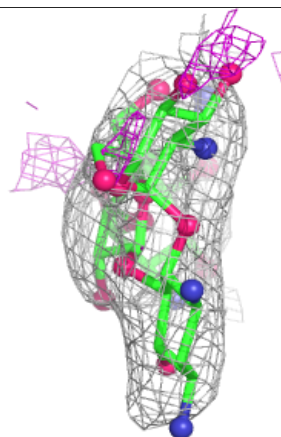
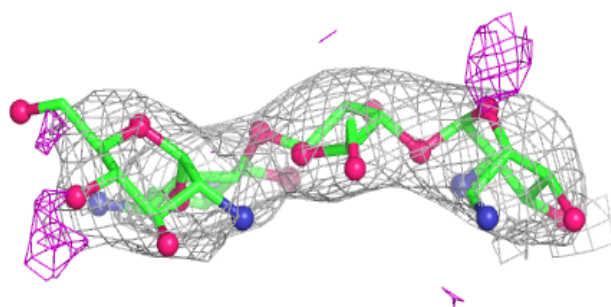
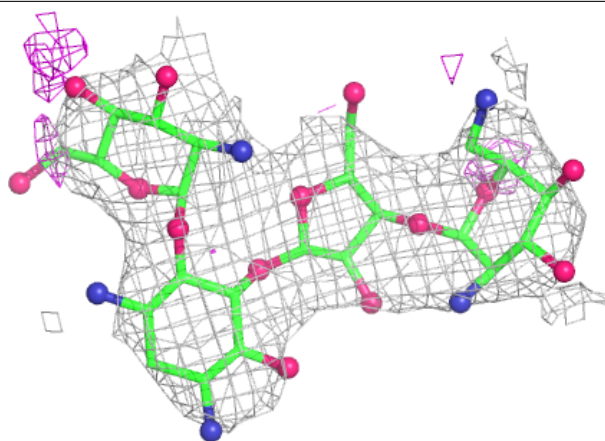
Electron density around PAR DA 1805:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PAR CA 1841:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.