Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:10 PM UTC

PDB ID	:	6CZR / pdb_00006czr
Title	:	The structure of amicetin bound to the 70S ribosome
Authors	:	Eiler, D.R.; Steitz, T.A.; Looper, R.E.; Serrano, C.M.; Kannareddy, H.R.; Koch, M.R.; Barrows, L.R.; Testa, C.A.; Sebahar, P.R.
Deposited on	:	2018-04-09
Resolution	:	3.14 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:

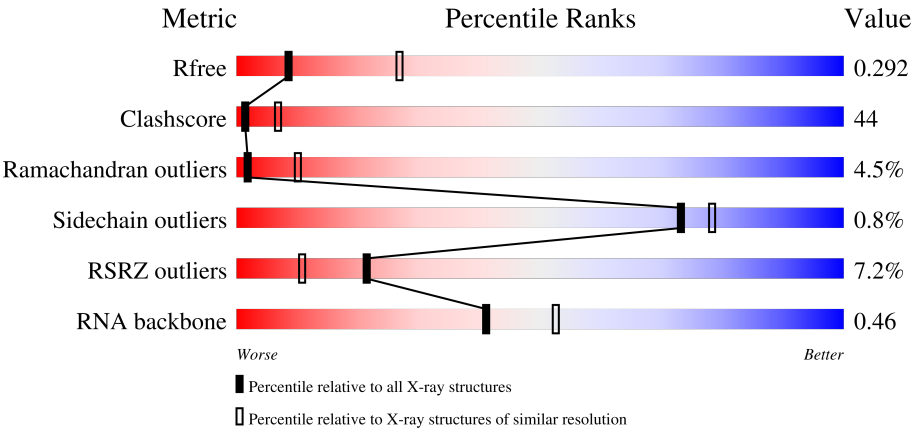
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 (i)

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

The reported resolution of this entry is 3.14 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	2351 (3.18-3.10)
Clashscore	190562	2452 (3.18-3.10)
Ramachandran outliers	187476	2324 (3.18-3.10)
Sidechain outliers	187428	2324 (3.18-3.10)
RSRZ outliers	180081	2351 (3.18-3.10)
RNA backbone	3983	1040 (3.38-2.90)

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 <=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	1A	2915	3% 22% 63% 14%
1	2A	2915	5% 17% 67% 15%
2	1B	120	% 36% 59% 5%
2	2B	120	10% 23% 66% 11%

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Mol	Chain	Length	Quality of chain
3	1D	275	35% 62%
3	2D	275	6% 31% 65%
4	1E	204	31% 67%
4	2E	204	3% 27% 71%
5	1F	203	28% 71%
5	2F	203	8% 32% 66%
6	1G	181	10% 23% 73%
6	2G	181	22% 17% 77% 6%
7	1H	174	50% 49%
7	2H	174	6% 29% 66%
8	1I	147	3% 37% 57% 6%
8	2I	147	9% 33% 61% 5%
9	1N	140	43% 55%
9	2N	140	32% 62% 6%
10	1O	122	30% 67%
10	2O	122	3% 30% 64% 6%
11	1P	149	44% 54%
11	2P	149	8% 39% 57%
12	1Q	141	33% 60% 7%
12	2Q	141	11% 25% 72%
13	1R	118	3% 27% 70%
13	2R	118	5% 16% 79% 5%
14	1S	110	40% 57%
14	2S	110	14% 31% 66%
15	1T	131	4% 31% 63% 5%

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Mol	Chain	Length	Quality of chain
15	2T	131	4% 33% 65%
16	1U	116	% 43% 56%
16	2U	116	4% 34% 61%
17	1V	101	45% 52%
17	2V	101	7% 24% 73%
18	1W	112	27% 67% 5%
18	2W	112	3% 23% 68% 9%
19	1X	95	% 39% 59%
19	2X	95	% 45% 48% 6%
20	1Y	107	% 42% 55%
20	2Y	107	6% 31% 67%
21	1Z	203	38% 55% 7%
21	2Z	203	8% 31% 63% 5%
22	10	77	% 39% 60%
22	20	77	5% 30% 66%
23	11	97	2% 46% 52%
23	21	97	4% 41% 57%
24	12	70	4% 47% 49%
24	22	70	3% 23% 71% 6%
25	13	59	39% 59%
25	23	59	8% 24% 75%
26	14	69	3% 22% 67% 10%
26	24	69	10% 32% 61% 7%
27	15	59	42% 56%
27	25	59	39% 61%

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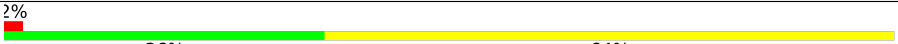
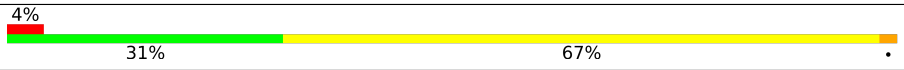
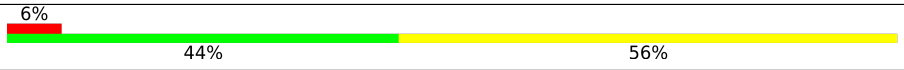
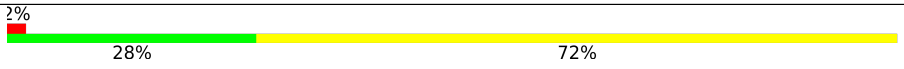
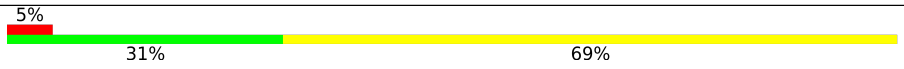
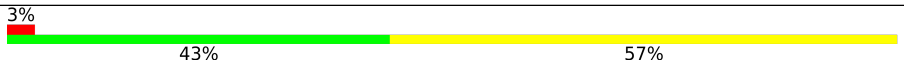
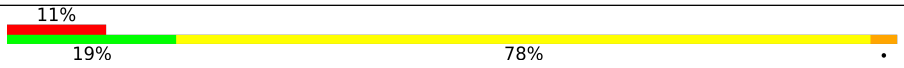
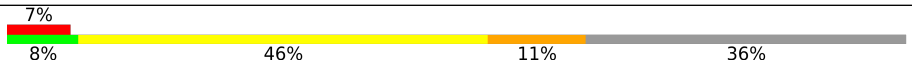
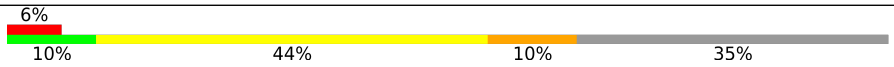
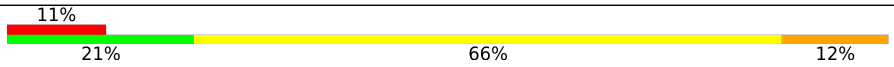
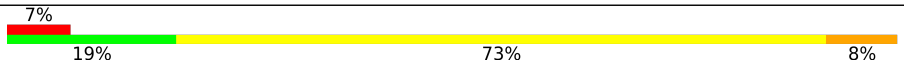
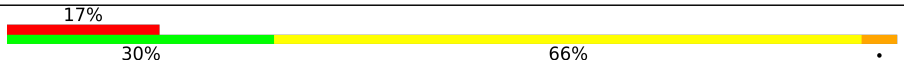
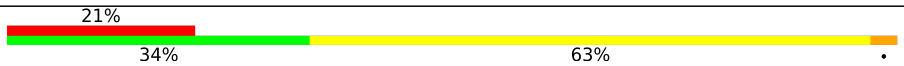
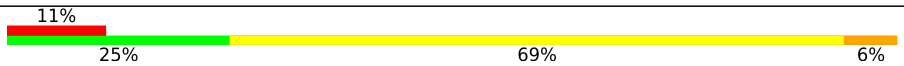
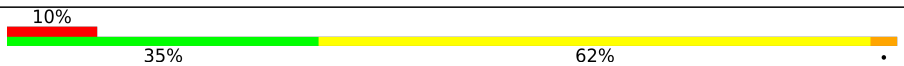
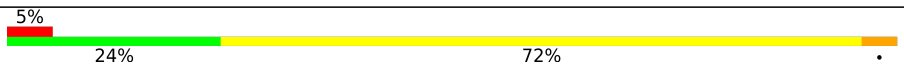
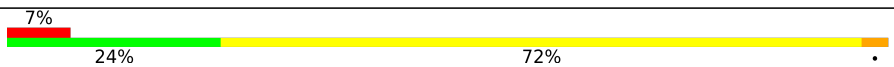
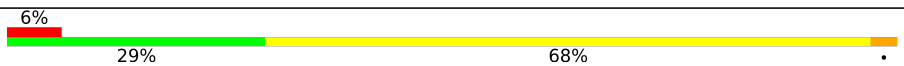
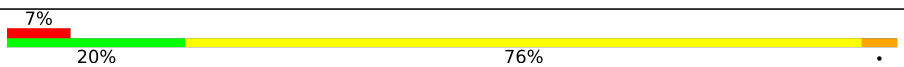
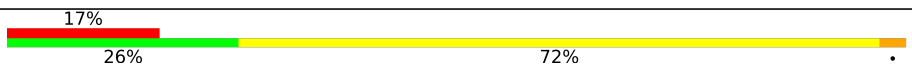
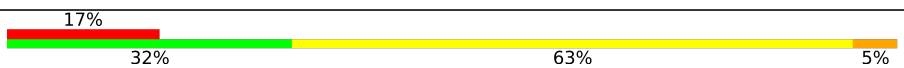
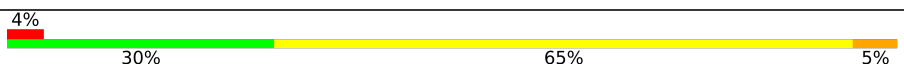
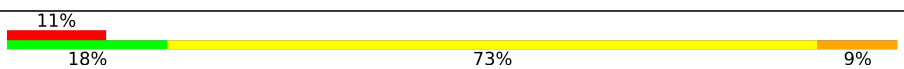
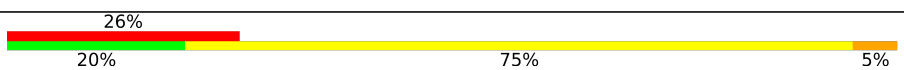
Mol	Chain	Length	Quality of chain
28	16	53	
28	26	53	
29	17	48	
29	27	48	
30	18	64	
30	28	64	
31	19	37	
31	29	37	
32	1a	2331	
32	2a	2331	
33	1b	231	
33	2b	231	
34	1c	206	
34	2c	206	
35	1d	208	
35	2d	208	
36	1e	148	
36	2e	148	
37	1f	100	
37	2f	100	
38	1g	155	
38	2g	155	
39	1h	137	
39	2h	137	
40	1i	127	

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Mol	Chain	Length	Quality of chain
40	2i	127	22% 19% 76% 5%
41	1j	97	25% 26% 68% 6%
41	2j	97	31% 22% 73%
42	1k	114	7% 39% 54% 6%
42	2k	114	8% 29% 64% 7%
43	1l	122	5% 38% 56% 7%
43	2l	122	7% 31% 66%
44	1m	116	22% 21% 77%
44	2m	116	17% 13% 81%
45	1n	60	12% 12% 83% 5%
45	2n	60	25% 27% 67% 7%
46	1o	88	3% 30% 59% 11%
46	2o	88	3% 26% 65% 9%
47	1p	82	12% 18% 79%
47	2p	82	15% 23% 72% 5%
48	1q	99	14% 26% 72%
48	2q	99	9% 25% 73%
49	1r	68	6% 22% 69% 9%
49	2r	68	3% 15% 76% 9%
50	1s	83	30% 20% 75%
50	2s	83	22% 27% 69% 5%
51	1t	98	5% 19% 73% 5%
51	2t	98	12% 35% 59% 6%
52	1u	23	48% 9% 78% 13%
52	2u	23	39% 13% 78% 9%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	OMC	2A	1941	-	-	X	-
32	MA6	1a	1497	-	-	X	-
32	MA6	2a	1496	-	-	X	-
43	0TD	1l	92	-	-	X	-
53	MG	1A	3002	-	-	-	X
53	MG	1A	3025	-	-	-	X
53	MG	1A	3040	-	-	-	X
53	MG	1A	3130	-	-	-	X
53	MG	1A	3524	-	-	-	X
53	MG	1A	3600	-	-	-	X
53	MG	1a	1775	-	-	-	X
53	MG	1a	1784	-	-	-	X
53	MG	1a	1810	-	-	-	X
53	MG	1a	1866	-	-	-	X
53	MG	2A	3128	-	-	-	X
53	MG	2A	3173	-	-	-	X
53	MG	2A	3194	-	-	-	X
53	MG	2A	3375	-	-	-	X
53	MG	2a	1806	-	-	-	X
53	MG	2a	1836	-	-	-	X
55	MPD	18	104	-	-	X	-
55	MPD	1a	1900	-	-	X	-
58	SF4	1d	501	-	-	X	-
58	SF4	2d	501	-	-	X	-

2 Entry composition

There are 59 unique types of molecules in this entry. The entry contains 290633 atoms, of which 88 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 23S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2872	Total	C	N	O	P	0	0	0
			61868	27540	11574	19883	2871			
1	2A	2867	Total	C	N	O	P	0	0	0
			61758	27491	11552	19850	2865			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1B	120	Total	C	N	O	P	0	0	0
			2572	1145	476	832	119			
2	2B	120	Total	C	N	O	P	0	0	0
			2573	1146	476	832	119			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	1D	275	Total	C	N	O	S	0	0	0
			2131	1346	422	360	3			
3	2D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	1E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
4	2E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	1F	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
5	2F	203	Total	C	N	O	S	0	0	1
			1580	1007	297	274	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1G	181	Total	C	N	O	S	0	0	0
			1426	916	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1424	912	259	249	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	1H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	2H	173	Total	C	N	O	S	0	0	0
			1324	842	247	234	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	147	Total	C	N	O	S	0	0	0
			1094	699	191	203	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1080	690	187	202	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	1N	140	Total	C	N	O	S	0	0	0
			1121	722	208	187	4			
9	2N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2O	122	Total 933	C 588	N 171	O 170	S 4	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	1P	149	Total 1135	C 706	N 230	O 196	S 3	0	0	0
11	2P	149	Total 1135	C 706	N 230	O 196	S 3	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	1Q	141	Total 1122	C 715	N 212	O 188	S 7	0	0	0
12	2Q	141	Total 1122	C 715	N 212	O 188	S 7	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	1R	118	Total 968	C 604	N 203	O 160	S 1	0	0	0
13	2R	118	Total 968	C 604	N 203	O 160	S 1	0	0	0

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	1S	110	Total 877	C 553	N 175	O 149	0	0	0
14	2S	110	Total 870	C 549	N 173	O 148	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	1T	131	Total 1091	C 680	N 225	O 185	S 1	0	0	0
15	2T	131	Total 1083	C 675	N 224	O 183	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	1U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			
16	2U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	1V	101	Total	C	N	O	S	0	0	0
			775	498	141	135	1			
17	2V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	1W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			
18	2W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	1X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
19	2X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	1Y	107	Total	C	N	O	S	0	0	0
			810	520	153	131	6			
20	2Y	107	Total	C	N	O	S	0	0	0
			810	519	153	132	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	203	Total	C	N	O	S	0	0	0
			1587	1011	282	292	2			
21	2Z	201	Total	C	N	O	S	0	0	0
			1557	995	274	286	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			
22	20	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	11	97	Total	C	N	O	S	0	0	0
			754	475	148	130	1			
23	21	97	Total	C	N	O	S	0	0	0
			759	478	149	131	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	12	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
24	22	70	Total	C	N	O	S	0	0	0
			592	368	119	103	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	13	59	Total	C	N	O	0	0	0
			469	298	90	81			
25	23	59	Total	C	N	O	0	0	0
			464	296	90	78			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	69	Total	C	N	O	S	0	0	0
			546	346	96	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			536	342	98	91	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	15	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
27	25	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	16	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
28	26	53	Total	C	N	O	S	0	0	0
			449	279	91	75	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	17	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
29	27	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	18	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
30	28	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 31 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	19	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
31	29	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 32 is a RNA chain called 16S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	1a	1500	Total	C	N	O	P	0	0	0
			32246	14358	5975	10413	1500			
32	2a	1504	Total	C	N	O	P	0	0	0
			32331	14396	5990	10441	1504			

- Molecule 33 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	1b	231	Total	C	N	O	S	0	0	0
			1842	1175	330	332	5			
33	2b	231	Total	C	N	O	S	0	0	0
			1825	1167	326	327	5			

- Molecule 34 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	1c	206	Total	C	N	O	S	0	0	0
			1558	979	305	273	1			
34	2c	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

- Molecule 35 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1d	208	Total	C	N	O	S	0	0	0
			1665	1043	329	286	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1668	1047	330	284	7			

- Molecule 36 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			
36	2e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

- Molecule 37 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	1f	100	Total	C	N	O	S	0	0	0
			814	516	144	151	3			
37	2f	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

- Molecule 38 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	1g	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1229	766	241	216	6			

- Molecule 39 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	1h	137	Total	C	N	O	S	0	0	0
			1098	694	210	192	2			
39	2h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			

- Molecule 40 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	1i	127	Total	C	N	O	0	0	0
			986	625	193	168			
40	2i	126	Total	C	N	O	0	0	0
			966	613	186	167			

- Molecule 41 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	1j	97	Total	C	N	O	0	0	0
			719	446	142	131			
41	2j	96	Total	C	N	O	0	0	0
			710	442	137	131			

- Molecule 42 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	1k	114	Total	C	N	O	S	0	0	0
			834	520	156	155	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	2k	114	Total	C	N	O	S	0	0	0
			833	519	156	155	3			

- Molecule 43 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	1l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			
43	2l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			

- Molecule 44 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1m	116	Total	C	N	O	S	0	0	0
			914	564	189	159	2			
44	2m	114	Total	C	N	O	S	0	0	0
			895	550	186	157	2			

- Molecule 45 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	1n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
45	2n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 46 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	1o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			
46	2o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			

- Molecule 47 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	1p	82	Total	C	N	O	S	0	0	0
			681	433	134	113	1			
47	2p	82	Total	C	N	O	S	0	0	0
			677	430	133	113	1			

- Molecule 48 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	1q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
48	2q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 49 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	1r	68	Total	C	N	O	0	0	0
			555	355	108	92			
49	2r	68	Total	C	N	O	0	0	0
			555	355	108	92			

- Molecule 50 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1s	83	Total	C	N	O	S	0	0	0
			648	415	120	111	2			
50	2s	83	Total	C	N	O	S	0	0	0
			645	410	118	115	2			

- Molecule 51 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	1t	96	Total	C	N	O	S	0	0	0
			732	449	157	124	2			
51	2t	98	Total	C	N	O	S	0	0	0
			733	451	154	126	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	1u	23	Total	C	N	O	0	0	0
			199	122	48	29			
52	2u	23	Total	C	N	O	0	0	0
			199	122	48	29			

- Molecule 53 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	1A	837	Total Mg 837 837	0	0
53	1B	24	Total Mg 24 24	0	0
53	1D	15	Total Mg 15 15	0	0
53	1E	9	Total Mg 9 9	0	0
53	1F	9	Total Mg 9 9	0	0
53	1G	3	Total Mg 3 3	0	0
53	1H	3	Total Mg 3 3	0	0
53	1N	4	Total Mg 4 4	0	0
53	1O	1	Total Mg 1 1	0	0
53	1P	3	Total Mg 3 3	0	0
53	1Q	3	Total Mg 3 3	0	0
53	1R	3	Total Mg 3 3	0	0
53	1S	1	Total Mg 1 1	0	0
53	1T	3	Total Mg 3 3	0	0
53	1U	1	Total Mg 1 1	0	0
53	1V	3	Total Mg 3 3	0	0
53	1W	2	Total Mg 2 2	0	0
53	1X	1	Total Mg 1 1	0	0
53	1Y	1	Total Mg 1 1	0	0
53	1Z	2	Total Mg 2 2	0	0
53	10	6	Total Mg 6 6	0	0
53	11	3	Total Mg 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	13	1	Total Mg 1 1	0	0
53	15	1	Total Mg 1 1	0	0
53	17	3	Total Mg 3 3	0	0
53	18	3	Total Mg 3 3	0	0
53	19	2	Total Mg 2 2	0	0
53	1a	203	Total Mg 203 203	0	0
53	1b	1	Total Mg 1 1	0	0
53	1d	2	Total Mg 2 2	0	0
53	1e	1	Total Mg 1 1	0	0
53	1f	2	Total Mg 2 2	0	0
53	1h	1	Total Mg 1 1	0	0
53	1l	2	Total Mg 2 2	0	0
53	1m	1	Total Mg 1 1	0	0
53	1o	1	Total Mg 1 1	0	0
53	1s	1	Total Mg 1 1	0	0
53	1t	1	Total Mg 1 1	0	0
53	2A	561	Total Mg 561 561	0	0
53	2B	9	Total Mg 9 9	0	0
53	2D	7	Total Mg 7 7	0	0
53	2E	5	Total Mg 5 5	0	0
53	2F	4	Total Mg 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	2G	1	Total Mg 1 1	0	0
53	2I	2	Total Mg 2 2	0	0
53	2O	2	Total Mg 2 2	0	0
53	2P	3	Total Mg 3 3	0	0
53	2Q	1	Total Mg 1 1	0	0
53	2R	2	Total Mg 2 2	0	0
53	2T	3	Total Mg 3 3	0	0
53	2U	2	Total Mg 2 2	0	0
53	2V	1	Total Mg 1 1	0	0
53	2W	2	Total Mg 2 2	0	0
53	2X	1	Total Mg 1 1	0	0
53	2Y	1	Total Mg 1 1	0	0
53	2Z	1	Total Mg 1 1	0	0
53	20	1	Total Mg 1 1	0	0
53	21	1	Total Mg 1 1	0	0
53	25	1	Total Mg 1 1	0	0
53	27	1	Total Mg 1 1	0	0
53	28	4	Total Mg 4 4	0	0
53	2a	144	Total Mg 144 144	0	0
53	2e	1	Total Mg 1 1	0	0
53	2f	2	Total Mg 2 2	0	0

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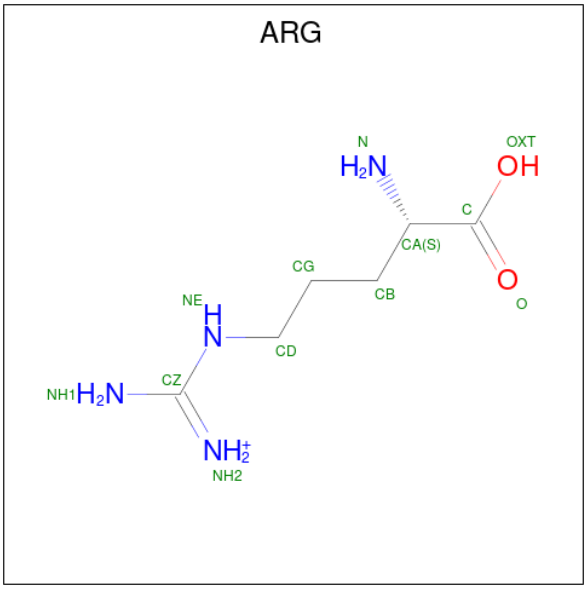
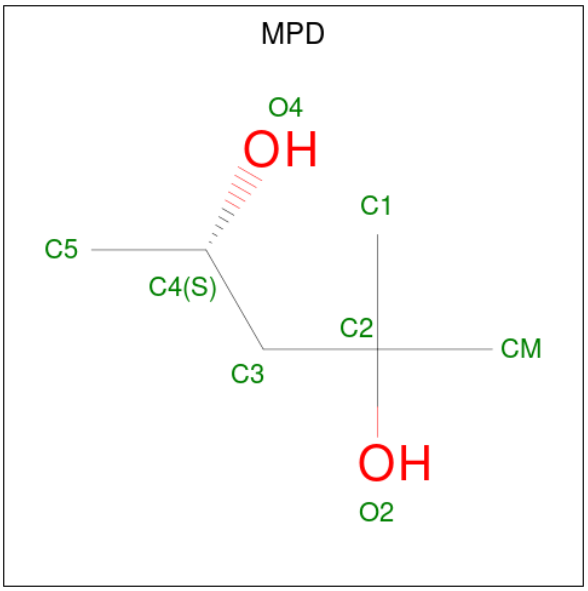
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	2h	1	Total Mg 1 1	0	0
53	2l	2	Total Mg 2 2	0	0
53	2n	1	Total Mg 1 1	0	0
53	2r	2	Total Mg 2 2	0	0
53	2t	1	Total Mg 1 1	0	0

- Molecule 54 is ARGININE (CCD ID: ARG) (formula: $C_6H_{15}N_4O_2$).



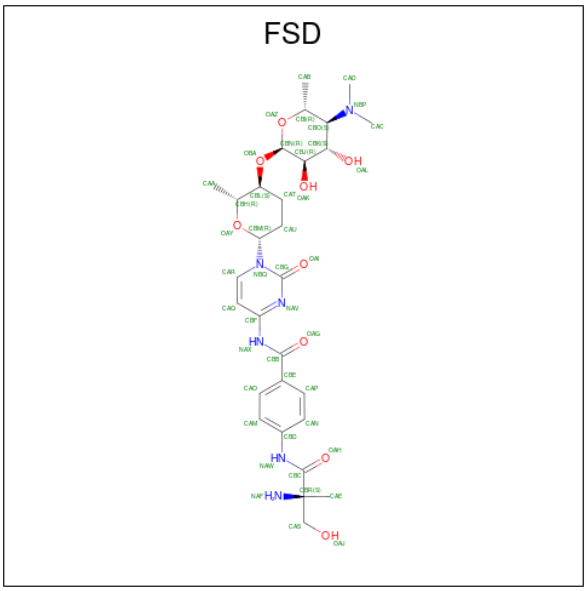
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	1A	1	Total C N O 12 6 4 2	0	0
54	1B	1	Total C N O 12 6 4 2	0	0

- Molecule 55 is (4S)-2-METHYL-2,4-PENTANEDIOL (CCD ID: MPD) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
55	1A	1	Total	C	O	0	0
			8	6	2		
55	1T	1	Total	C	O	0	0
			8	6	2		
55	18	1	Total	C	O	0	0
			8	6	2		
55	1a	1	Total	C	O	0	0
			8	6	2		
55	2A	1	Total	C	O	0	0
			8	6	2		
55	2A	1	Total	C	O	0	0
			8	6	2		
55	2B	1	Total	C	O	0	0
			8	6	2		

- Molecule 56 is amicetin (CCD ID: FSD) (formula: $C_{29}H_{42}N_6O_9$).

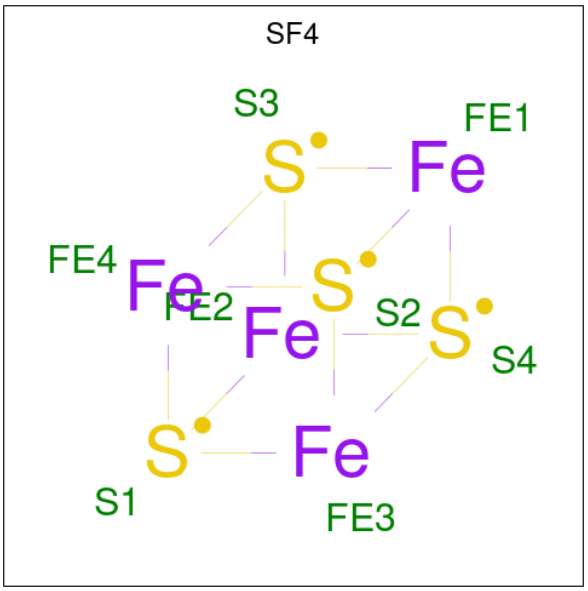


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
56	1A	1	Total	C	H	N	O	0	0
			88	29	44	6	9		
56	2A	1	Total	C	H	N	O	0	0
			88	29	44	6	9		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1Y	1	Total	Zn	0	0
			1	1		
57	15	1	Total	Zn	0	0
			1	1		
57	16	1	Total	Zn	0	0
			1	1		
57	19	1	Total	Zn	0	0
			1	1		
57	2Y	1	Total	Zn	0	0
			1	1		
57	25	1	Total	Zn	0	0
			1	1		
57	26	1	Total	Zn	0	0
			1	1		
57	29	1	Total	Zn	0	0
			1	1		
57	2n	1	Total	Zn	0	0
			1	1		

- Molecule 58 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1d	1	Total Fe S 8 4 4	0	0
58	2d	1	Total Fe S 8 4 4	0	0

- Molecule 59 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1A	1757	Total O 1757 1757	0	0
59	1B	40	Total O 40 40	0	0
59	1D	49	Total O 49 49	0	0
59	1E	31	Total O 31 31	0	0
59	1F	32	Total O 32 32	0	0
59	1G	6	Total O 6 6	0	0
59	1H	10	Total O 10 10	0	0
59	1I	2	Total O 2 2	0	0
59	1N	34	Total O 34 34	0	0
59	1O	10	Total O 10 10	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1P	28	Total O 28 28	0	0
59	1Q	19	Total O 19 19	0	0
59	1R	18	Total O 18 18	0	0
59	1S	3	Total O 3 3	0	0
59	1T	14	Total O 14 14	0	0
59	1U	24	Total O 24 24	0	0
59	1V	33	Total O 33 33	0	0
59	1W	21	Total O 21 21	0	0
59	1X	5	Total O 5 5	0	0
59	1Y	7	Total O 7 7	0	0
59	1Z	6	Total O 6 6	0	0
59	10	16	Total O 16 16	0	0
59	11	13	Total O 13 13	0	0
59	12	5	Total O 5 5	0	0
59	13	8	Total O 8 8	0	0
59	15	6	Total O 6 6	0	0
59	16	5	Total O 5 5	0	0
59	17	3	Total O 3 3	0	0
59	18	18	Total O 18 18	0	0
59	19	9	Total O 9 9	0	0
59	1a	235	Total O 235 235	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1c	1	Total O 1 1	0	0
59	1d	4	Total O 4 4	0	0
59	1e	1	Total O 1 1	0	0
59	1h	2	Total O 2 2	0	0
59	1i	1	Total O 1 1	0	0
59	1l	2	Total O 2 2	0	0
59	1m	1	Total O 1 1	0	0
59	1o	2	Total O 2 2	0	0
59	1q	1	Total O 1 1	0	0
59	2A	859	Total O 859 859	0	0
59	2B	5	Total O 5 5	0	0
59	2D	12	Total O 12 12	0	0
59	2E	11	Total O 11 11	0	0
59	2F	6	Total O 6 6	0	0
59	2G	4	Total O 4 4	0	0
59	2I	1	Total O 1 1	0	0
59	2O	6	Total O 6 6	0	0
59	2P	7	Total O 7 7	0	0
59	2Q	5	Total O 5 5	0	0
59	2R	5	Total O 5 5	0	0
59	2S	1	Total O 1 1	0	0

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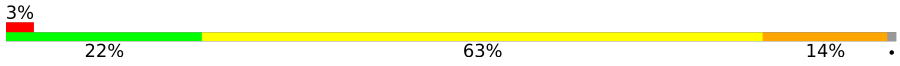
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	2T	4	Total O 4 4	0	0
59	2U	5	Total O 5 5	0	0
59	2V	3	Total O 3 3	0	0
59	2W	4	Total O 4 4	0	0
59	2X	5	Total O 5 5	0	0
59	2Y	2	Total O 2 2	0	0
59	20	5	Total O 5 5	0	0
59	21	4	Total O 4 4	0	0
59	22	1	Total O 1 1	0	0
59	23	2	Total O 2 2	0	0
59	25	1	Total O 1 1	0	0
59	26	2	Total O 2 2	0	0
59	27	5	Total O 5 5	0	0
59	28	5	Total O 5 5	0	0
59	2a	113	Total O 113 113	0	0
59	2f	1	Total O 1 1	0	0
59	2o	1	Total O 1 1	0	0
59	2q	1	Total O 1 1	0	0

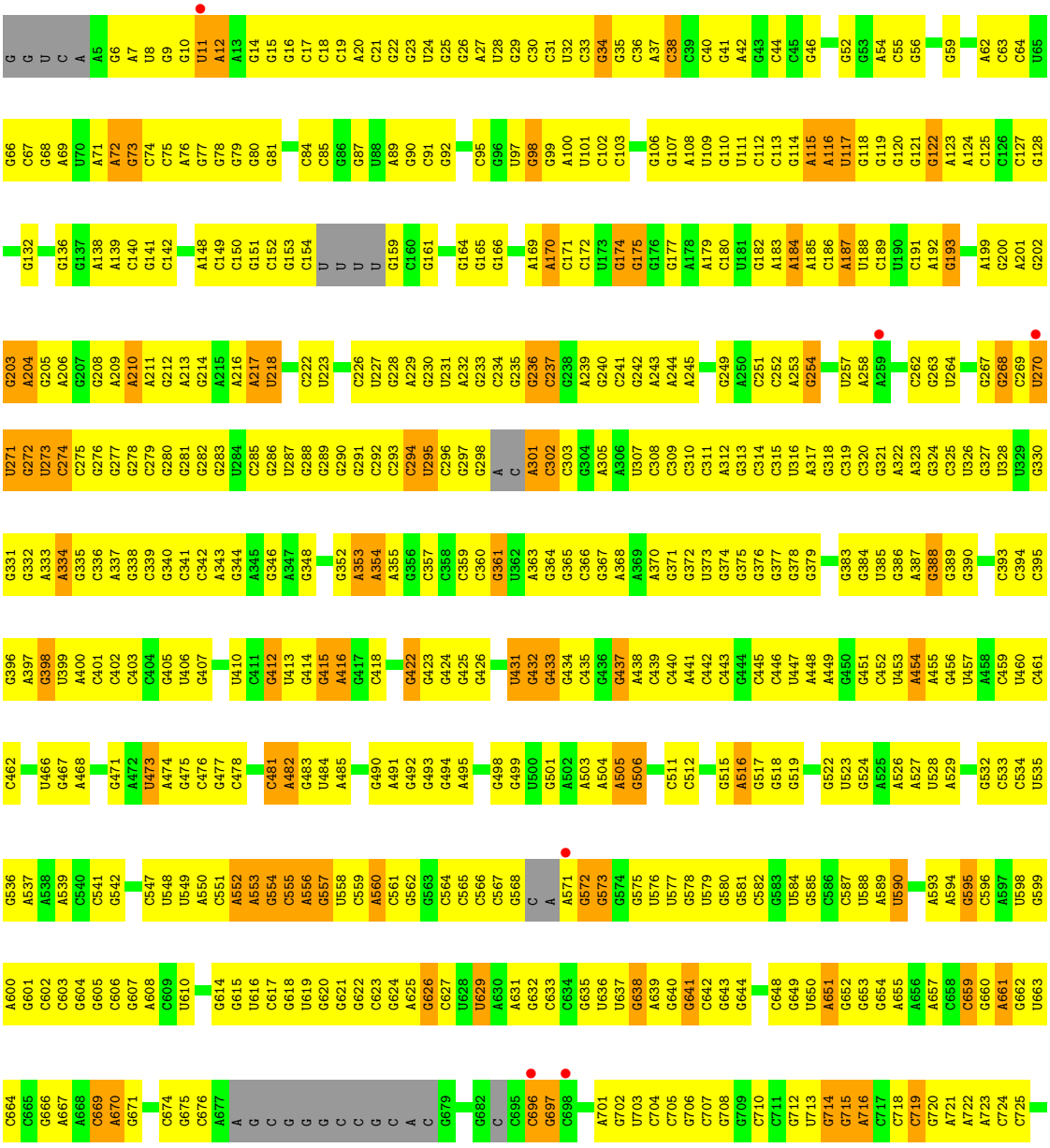
3 Residue-property plots (i)

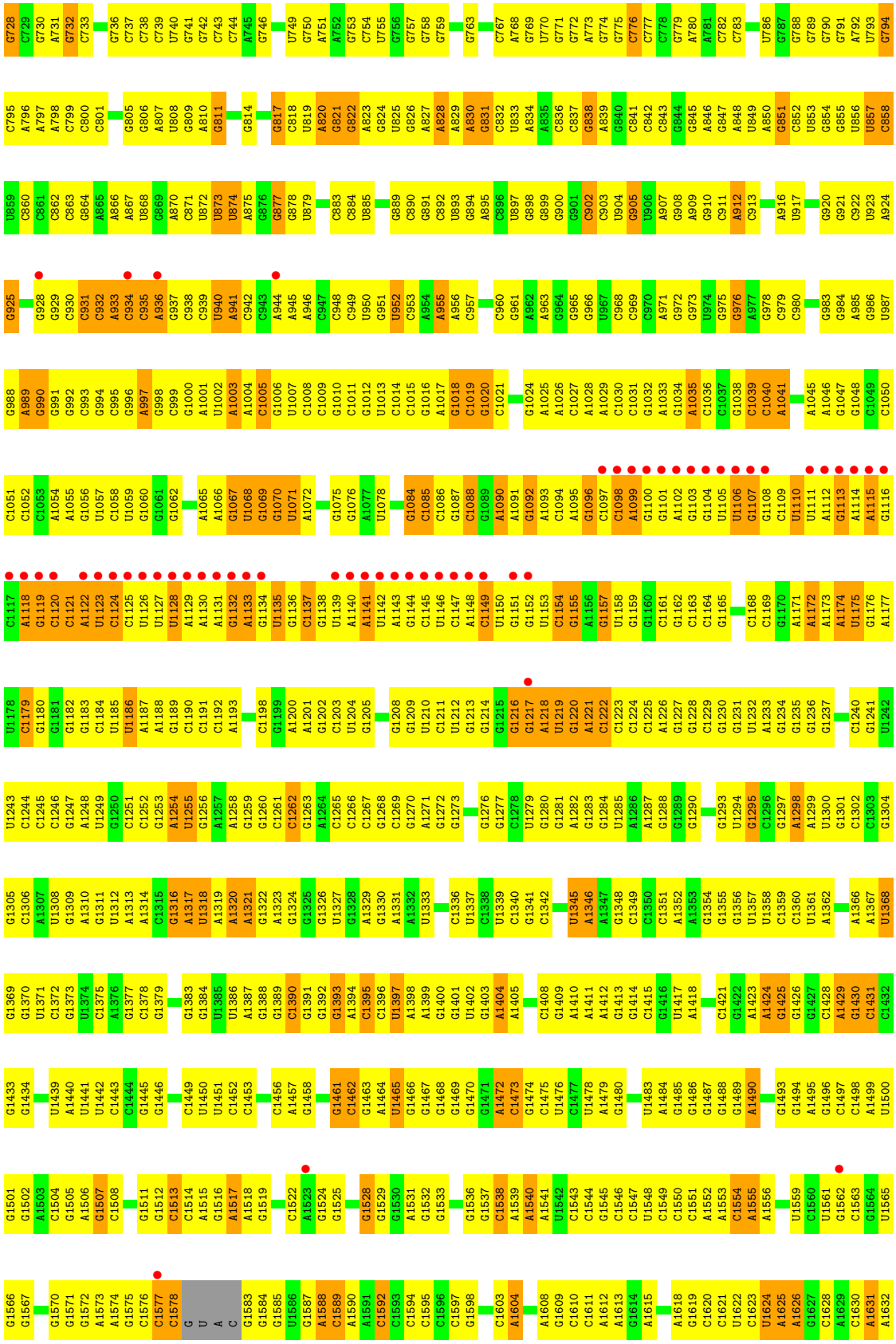
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

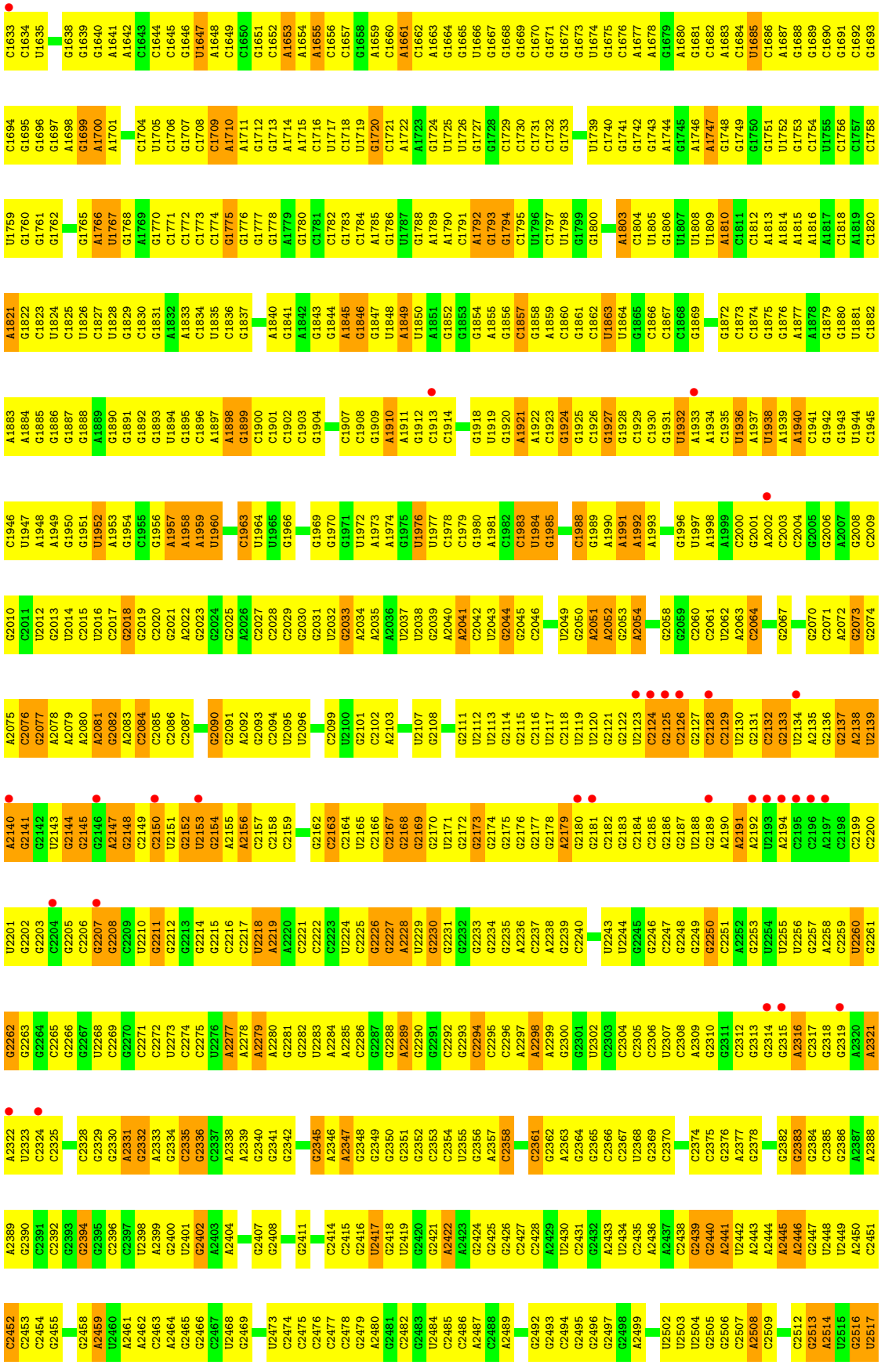
- Molecule 1: 23S Ribosomal RNA

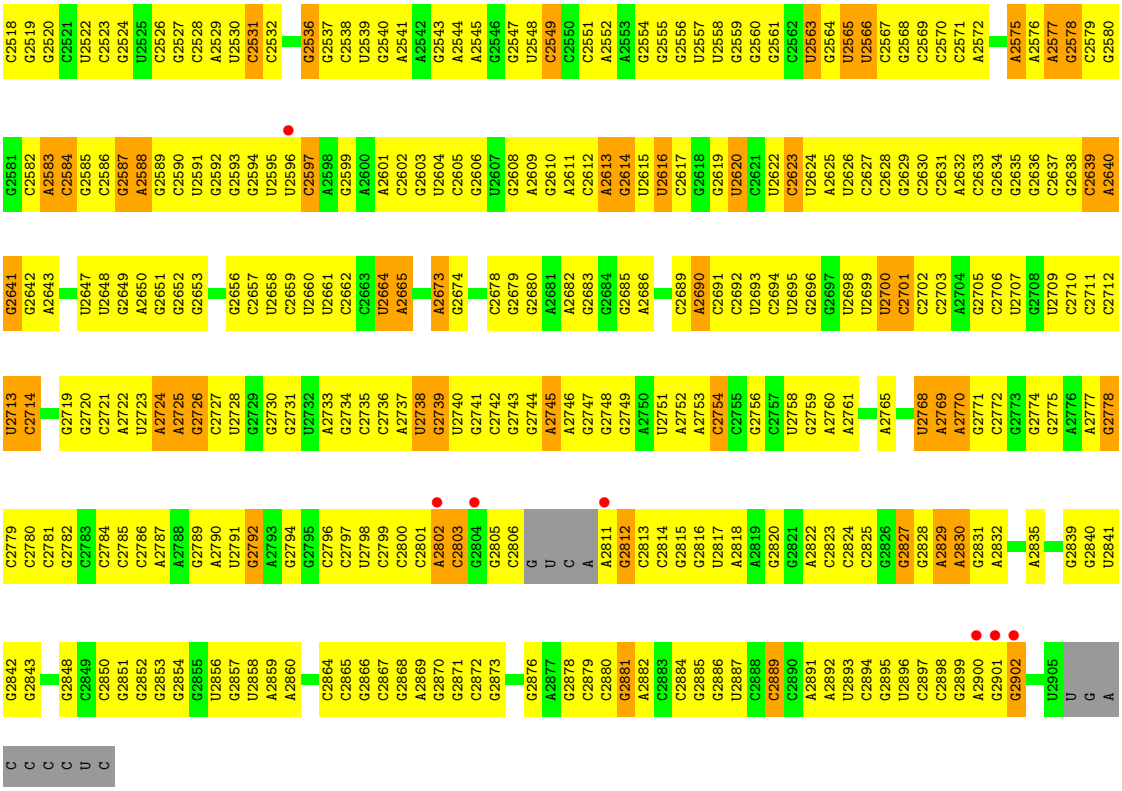
Chain 1A:





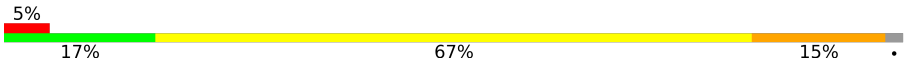


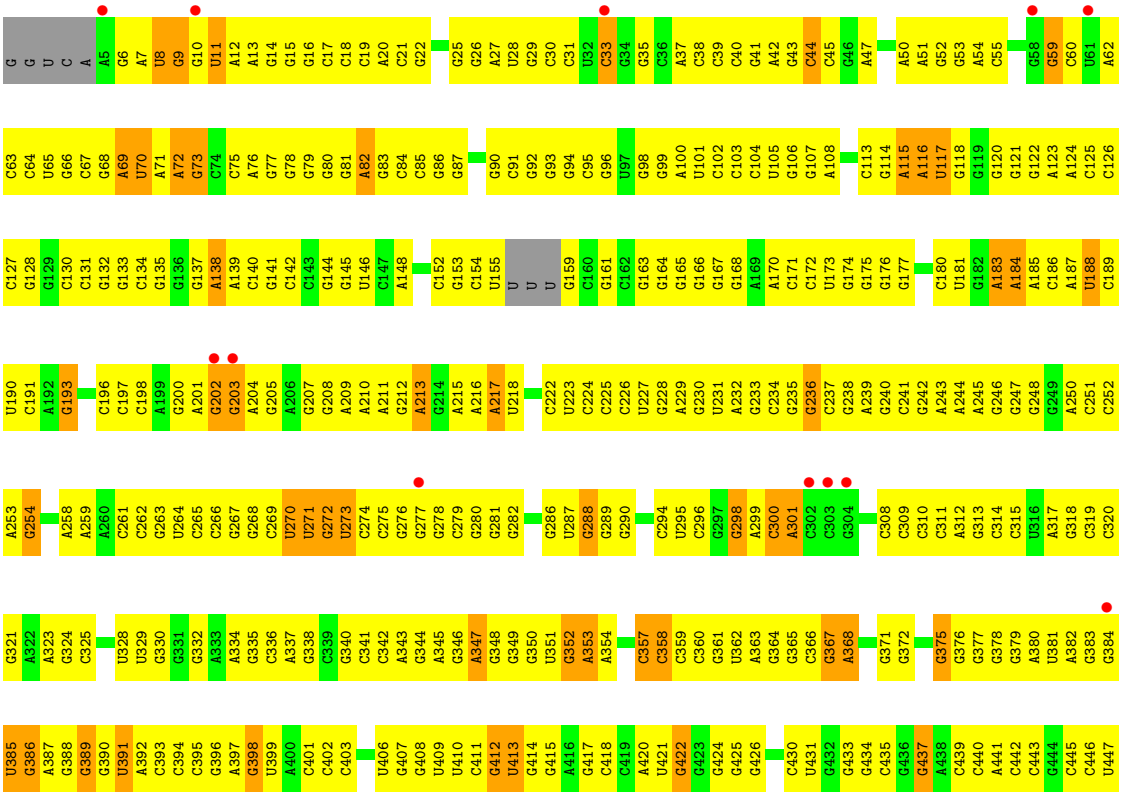


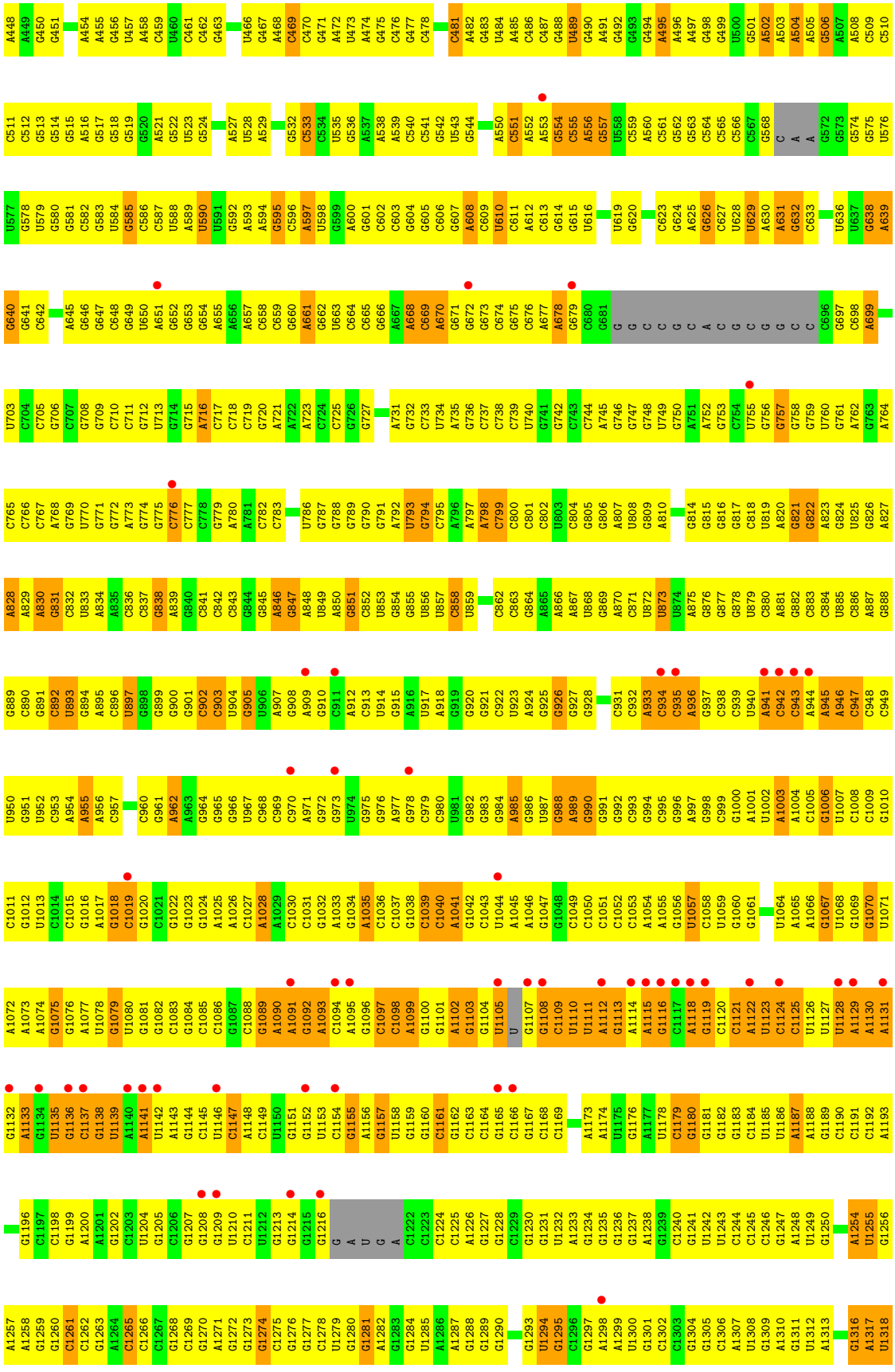


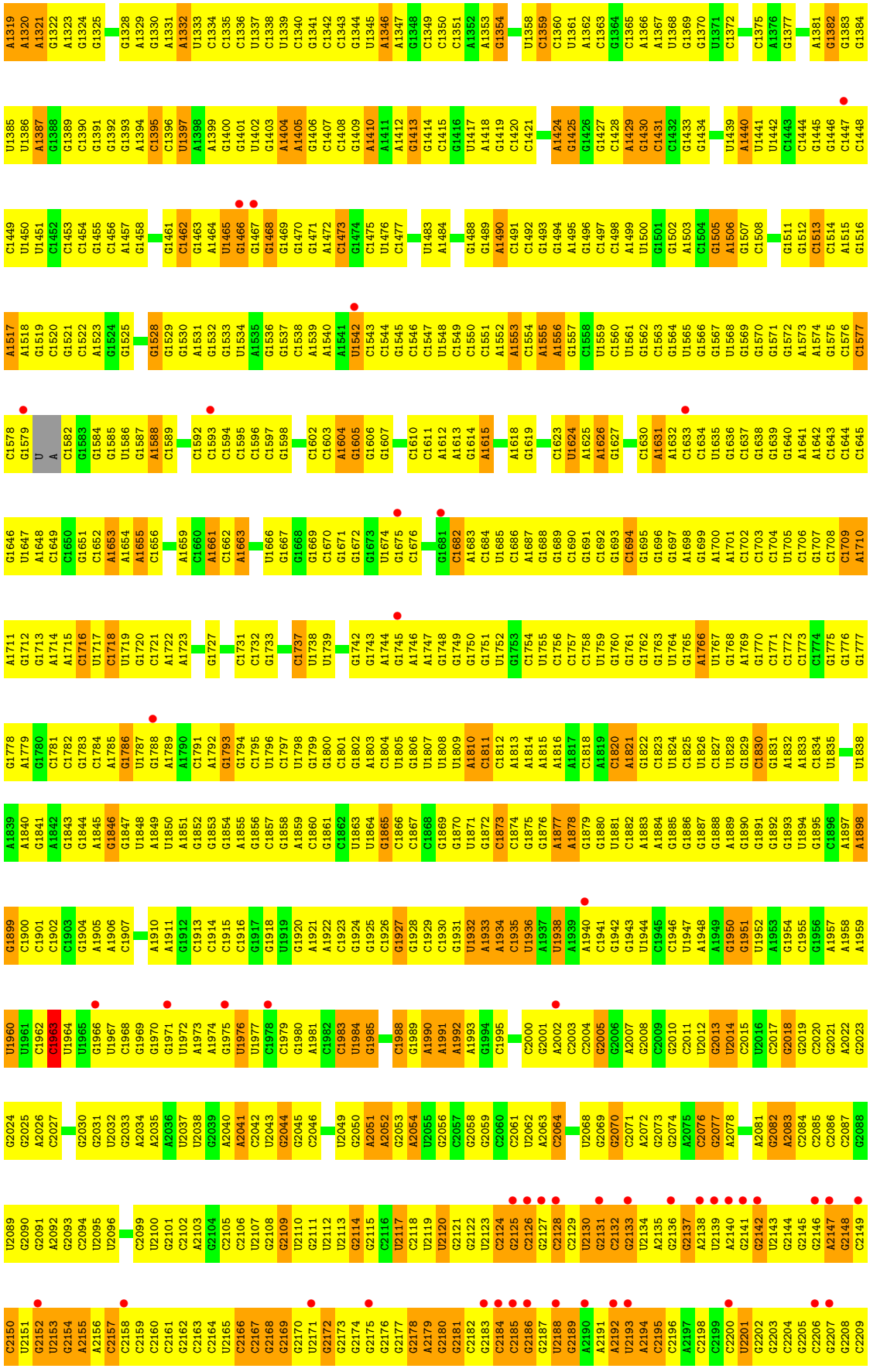
• Molecule 1: 23S Ribosomal RNA

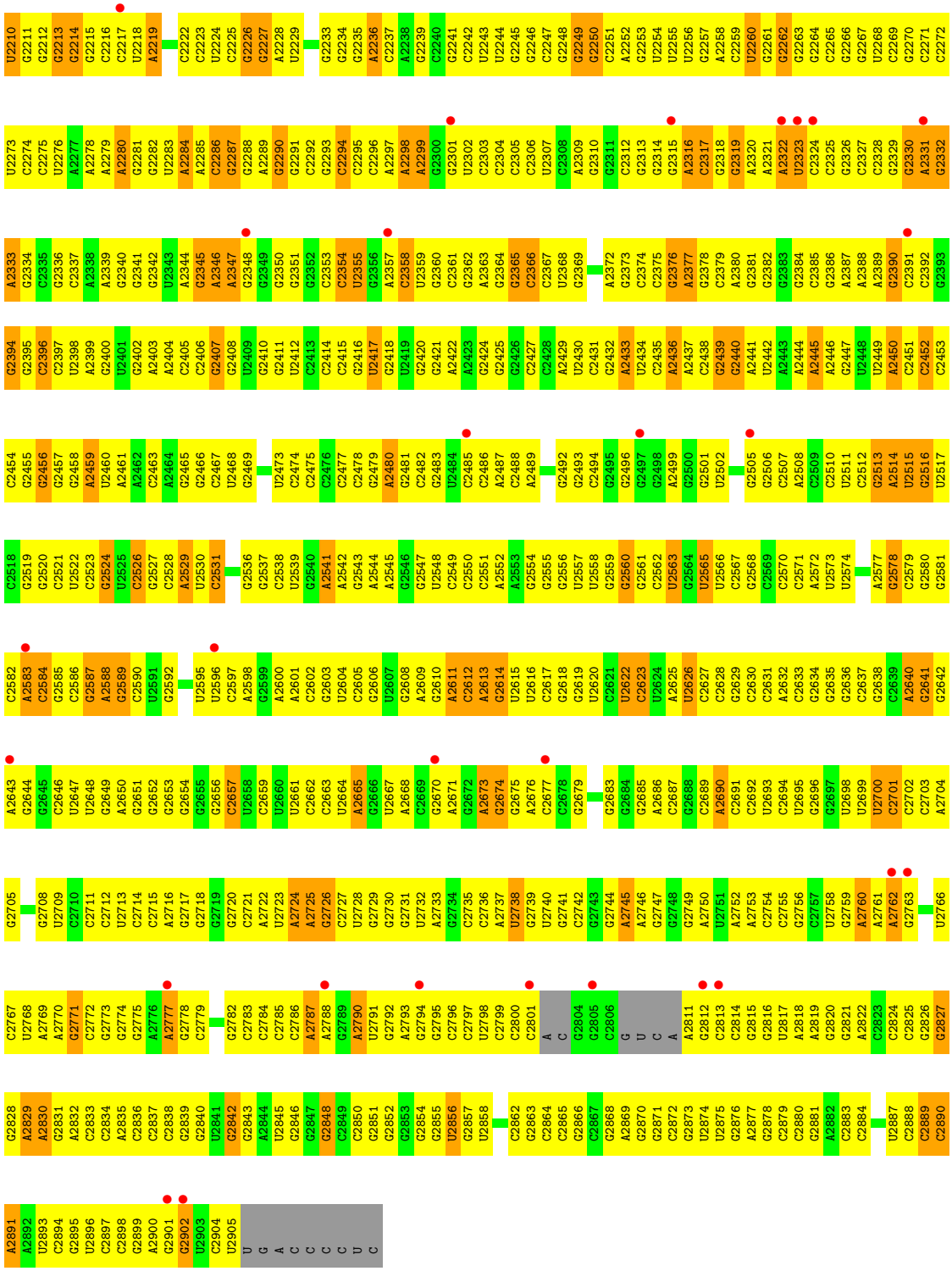
Chain 2A:





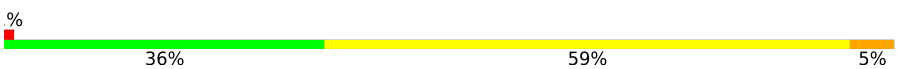


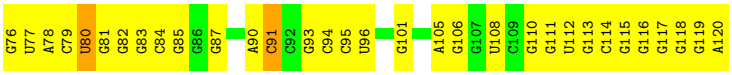




• Molecule 2: 5S Ribosomal RNA

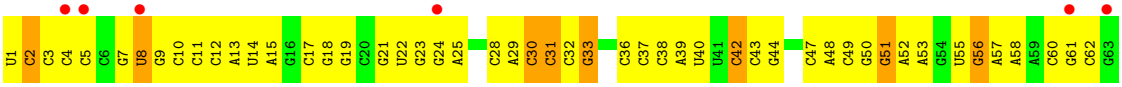
Chain 1B:

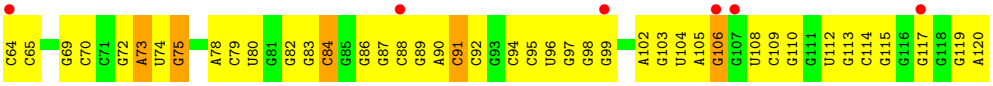




• Molecule 2: 5S Ribosomal RNA

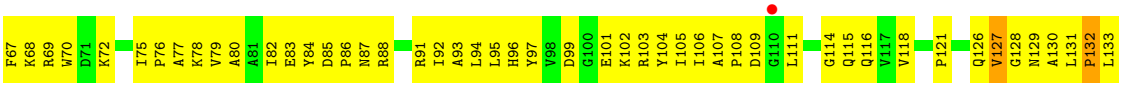
Chain 2B:

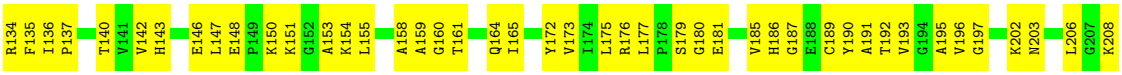


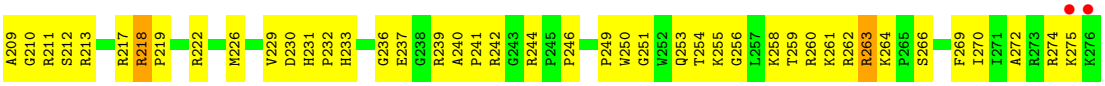


• Molecule 3: 50S ribosomal protein L2

Chain 1D:

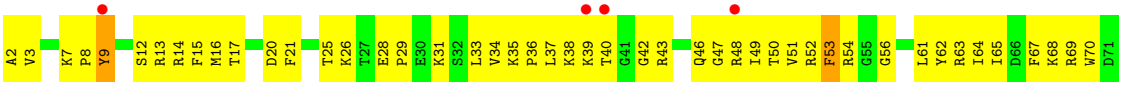


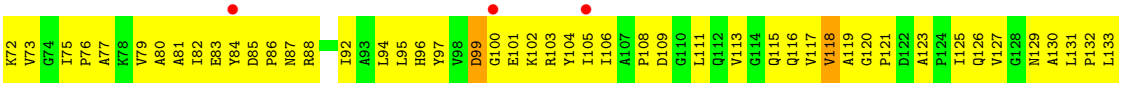


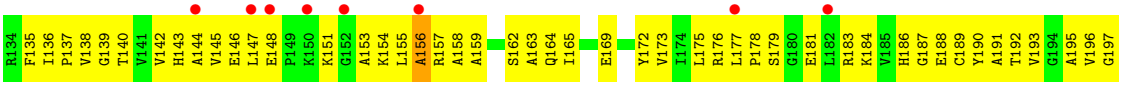


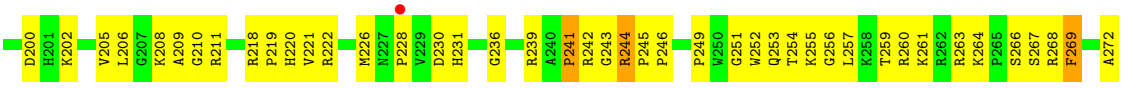
• Molecule 3: 50S ribosomal protein L2

Chain 2D:

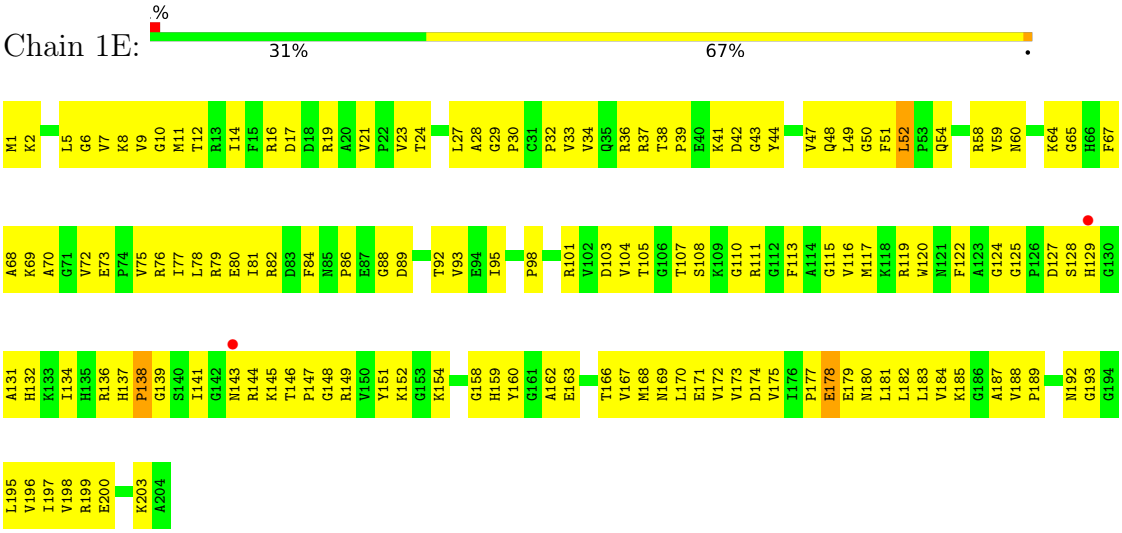




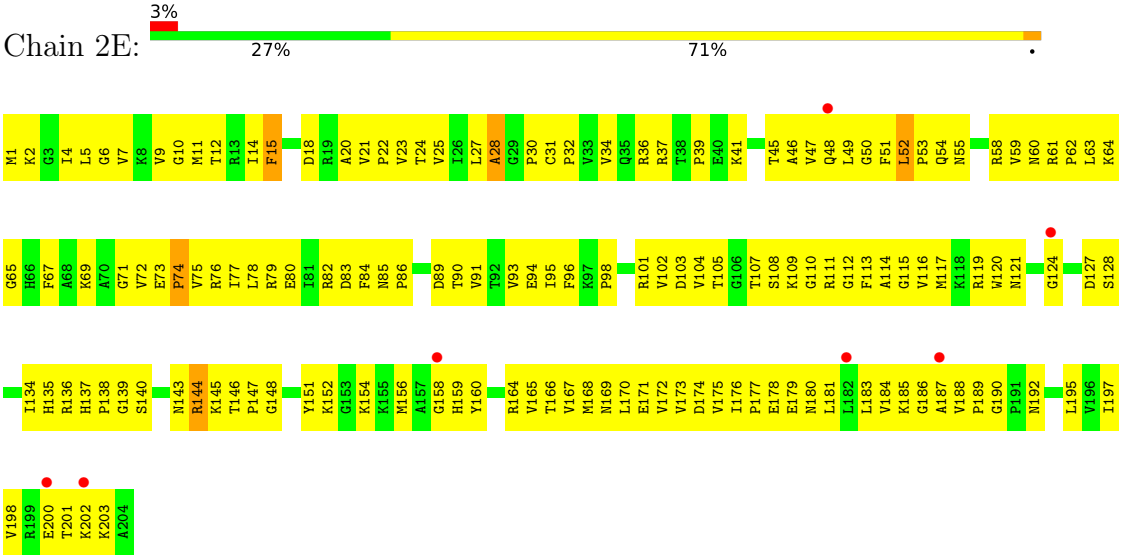




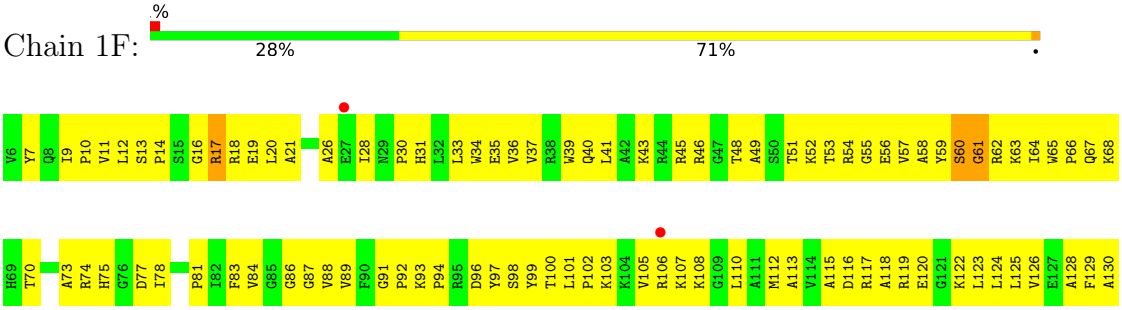
• Molecule 4: 50S ribosomal protein L3



• Molecule 4: 50S ribosomal protein L3

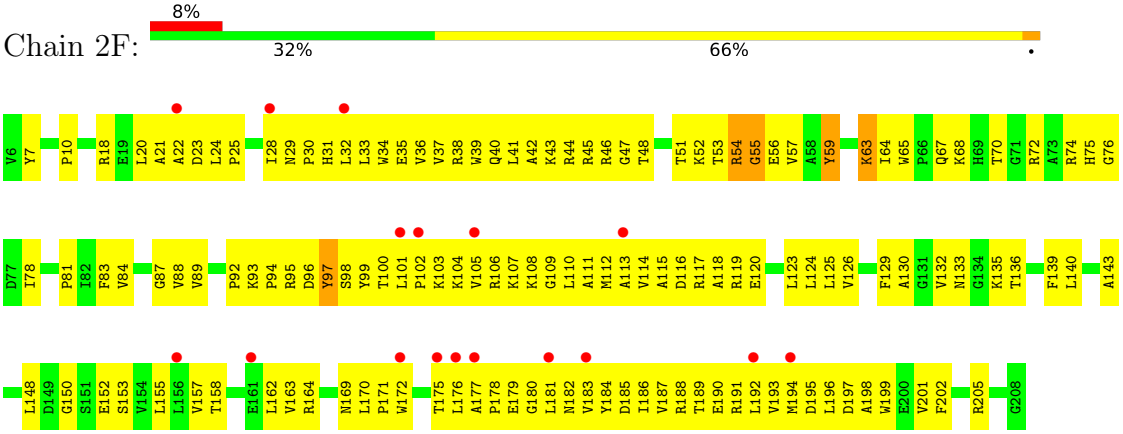


• Molecule 5: 50S ribosomal protein L4



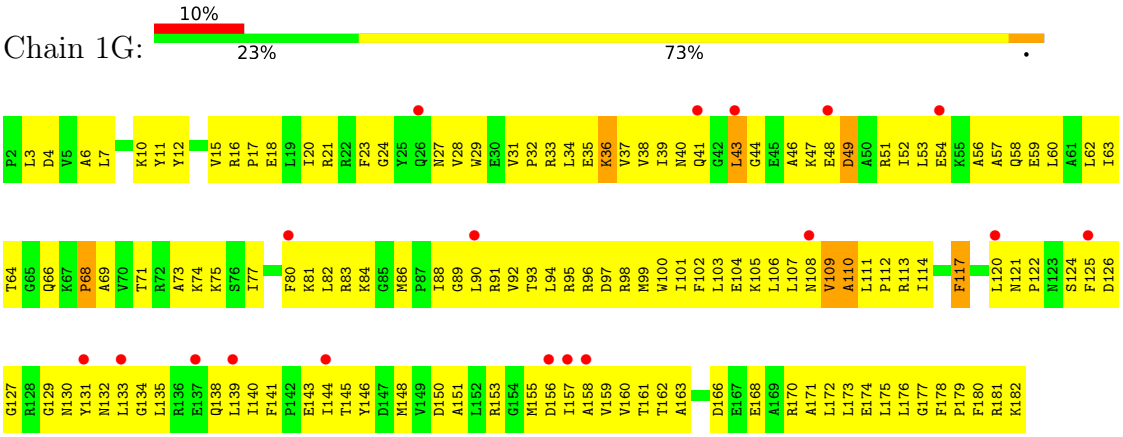
• Molecule 5: 50S ribosomal protein L4

Chain 2F:



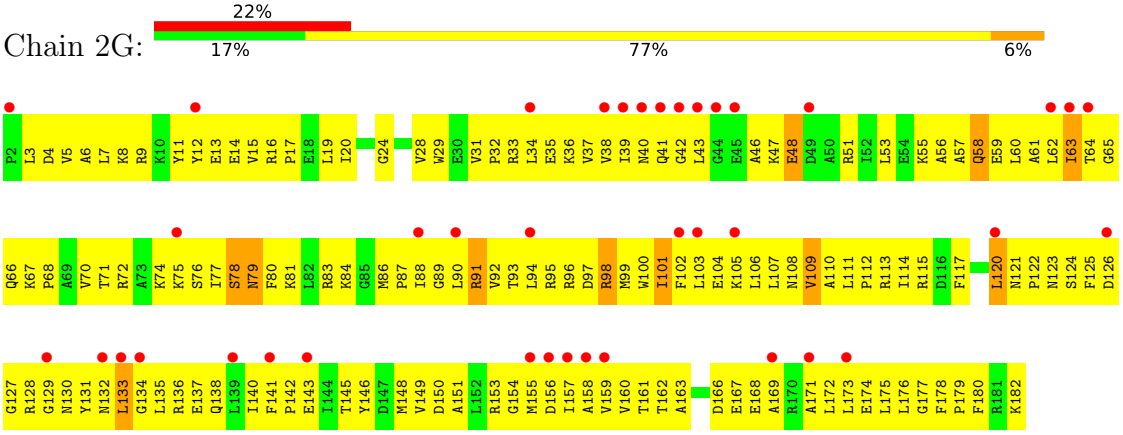
• Molecule 6: 50S ribosomal protein L5

Chain 1G:



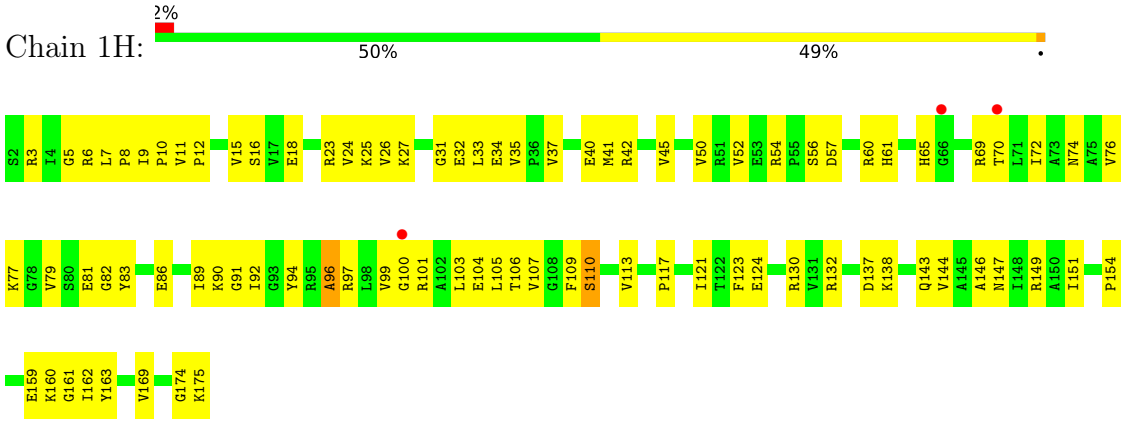
• Molecule 6: 50S ribosomal protein L5

Chain 2G:



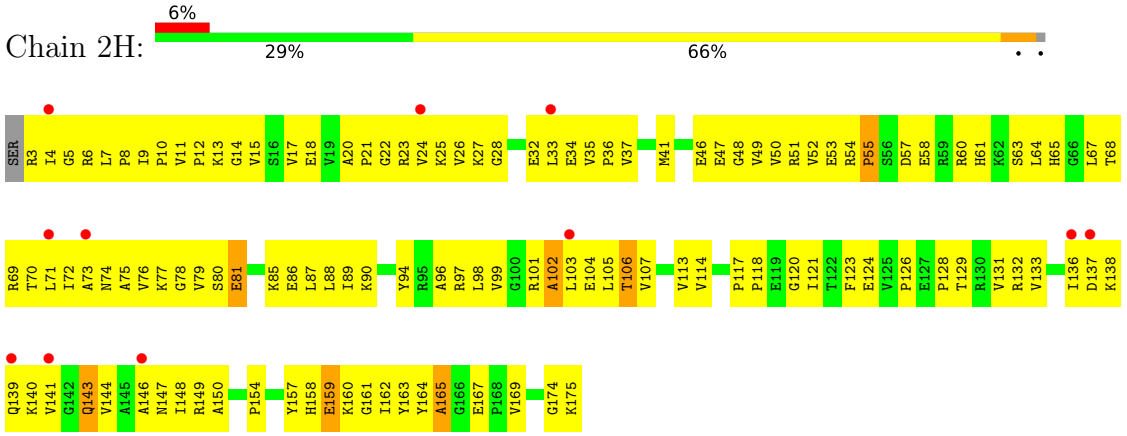
• Molecule 7: 50S ribosomal protein L6

Chain 1H:



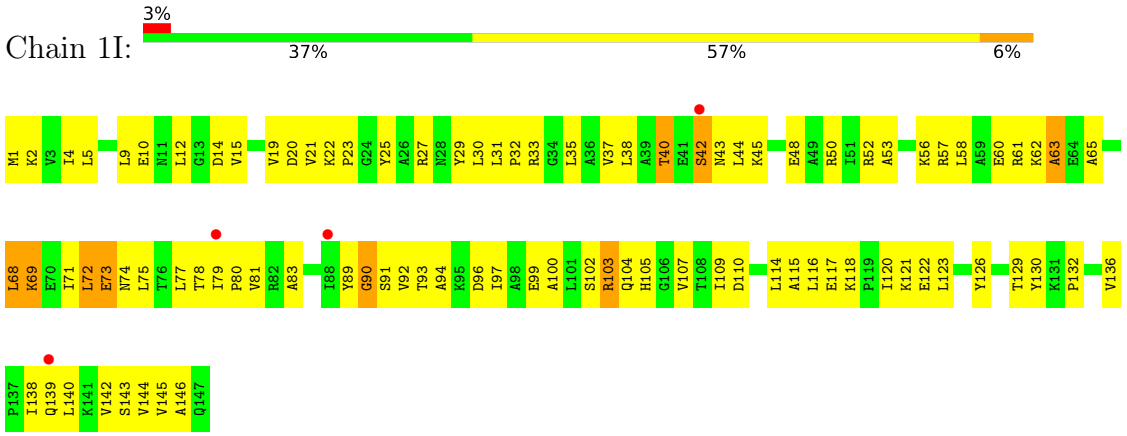
• Molecule 7: 50S ribosomal protein L6

Chain 2H:



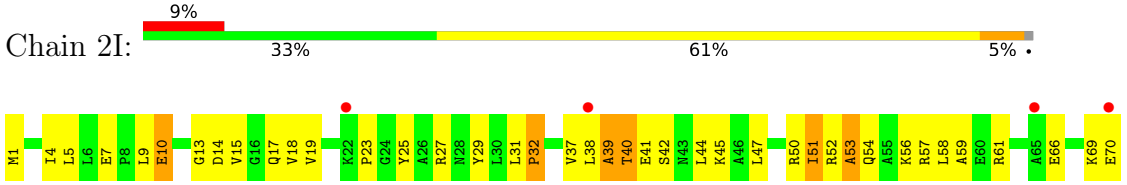
• Molecule 8: 50S ribosomal protein L9

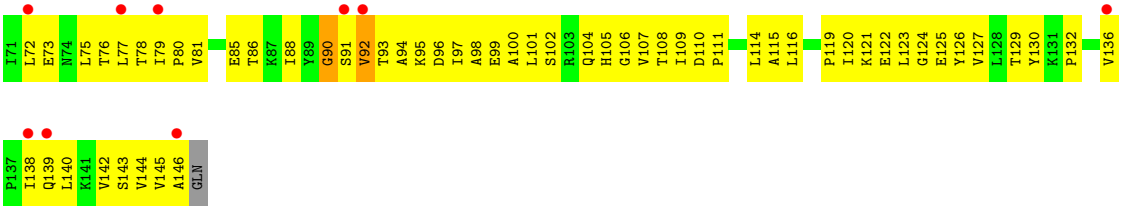
Chain 1I:



• Molecule 8: 50S ribosomal protein L9

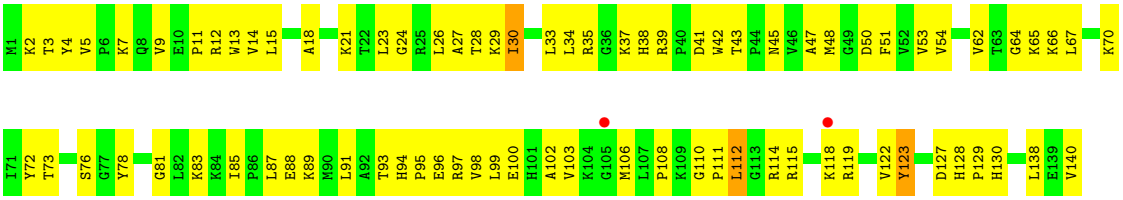
Chain 2I:





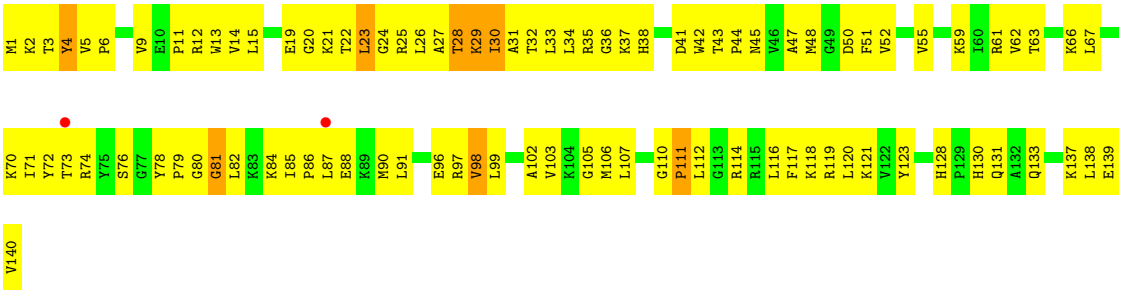
• Molecule 9: 50S ribosomal protein L13

Chain 1N:



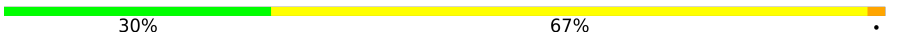
• Molecule 9: 50S ribosomal protein L13

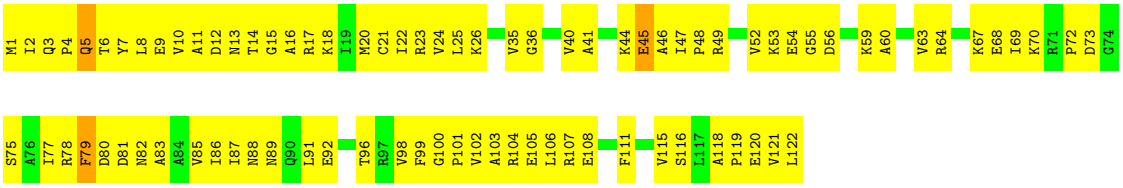
Chain 2N:



• Molecule 10: 50S ribosomal protein L14

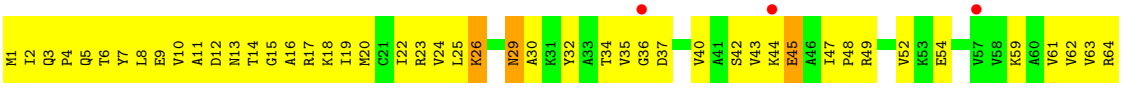
Chain 1O:

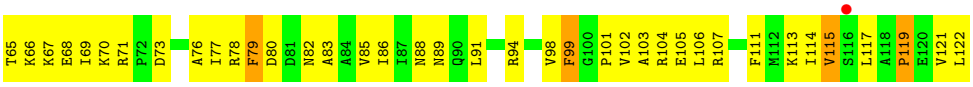




• Molecule 10: 50S ribosomal protein L14

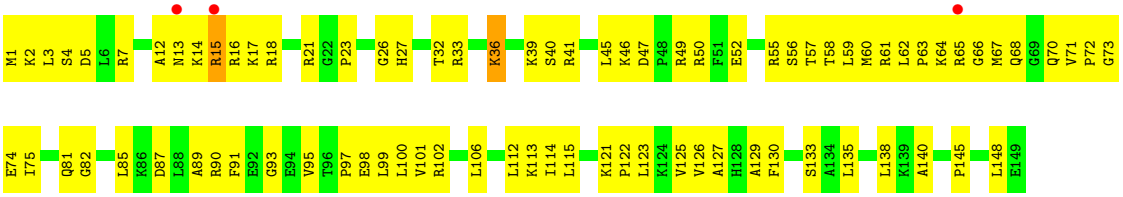
Chain 2O:





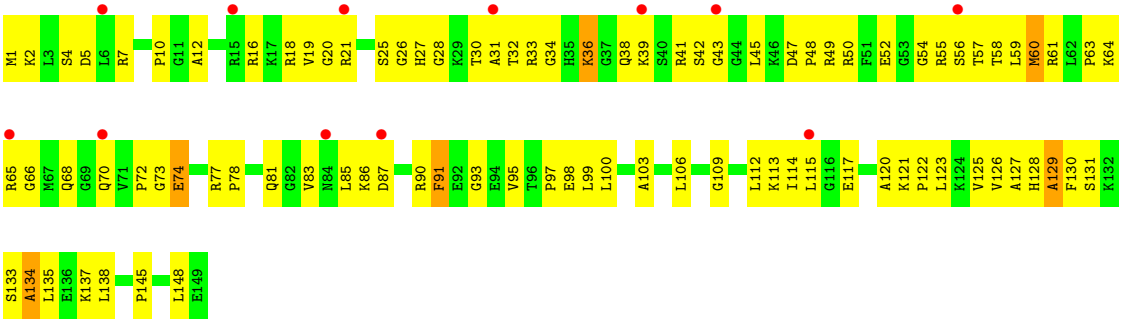
• Molecule 11: 50S ribosomal protein L15

Chain 1P:



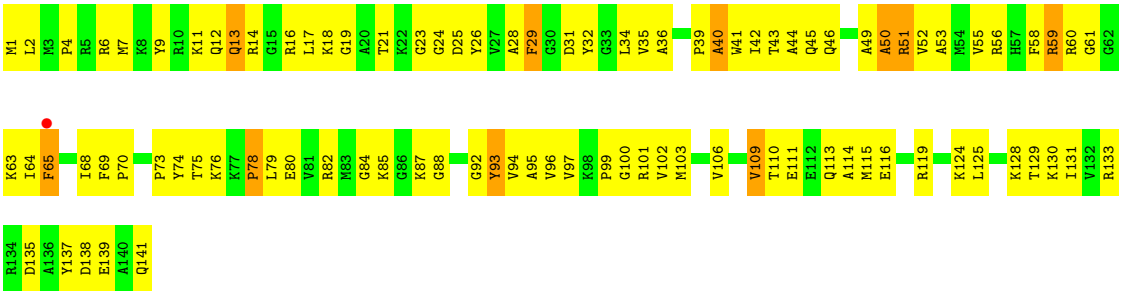
• Molecule 11: 50S ribosomal protein L15

Chain 2P:



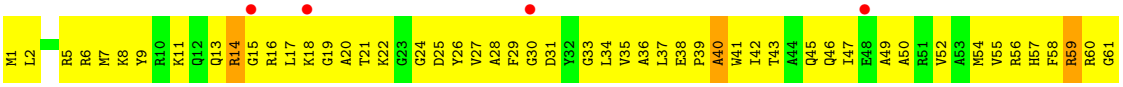
• Molecule 12: 50S ribosomal protein L16

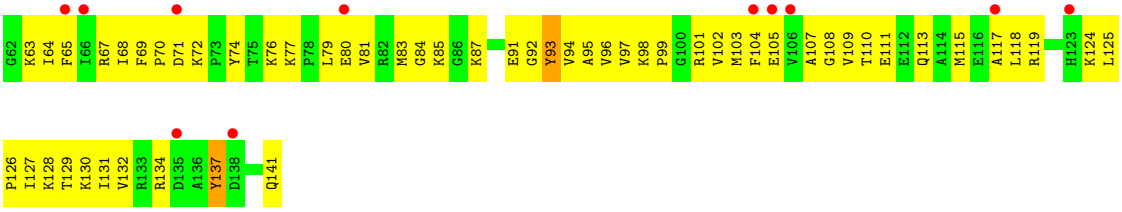
Chain 1Q:



• Molecule 12: 50S ribosomal protein L16

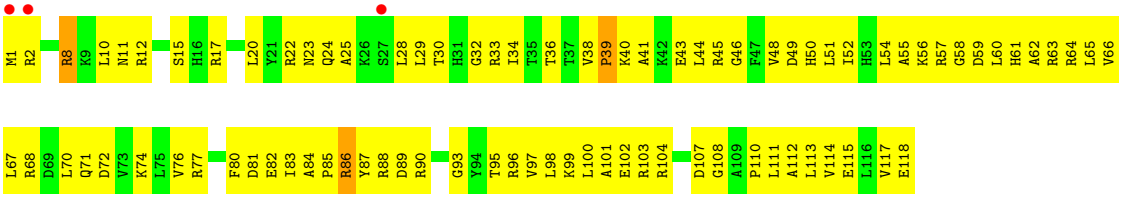
Chain 2Q:





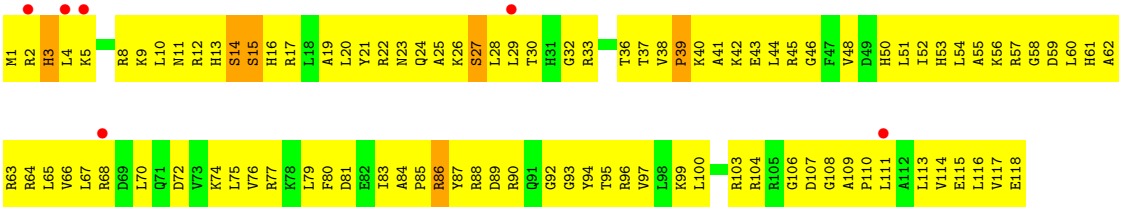
• Molecule 13: 50S ribosomal protein L17

Chain 1R:



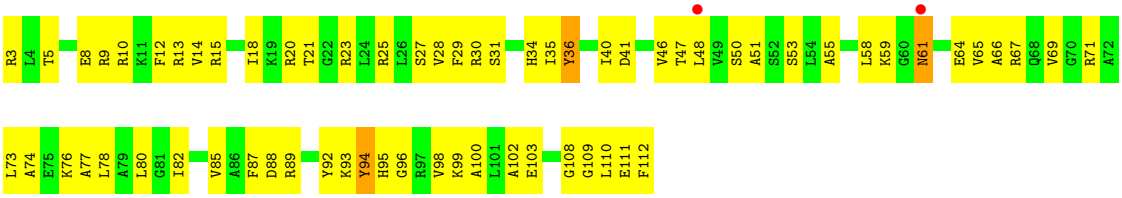
• Molecule 13: 50S ribosomal protein L17

Chain 2R:



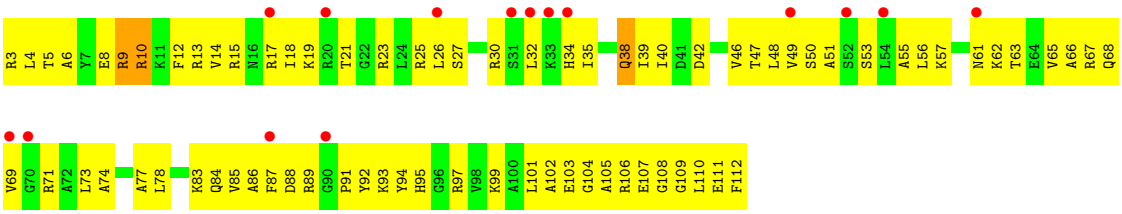
• Molecule 14: 50S ribosomal protein L18

Chain 1S:



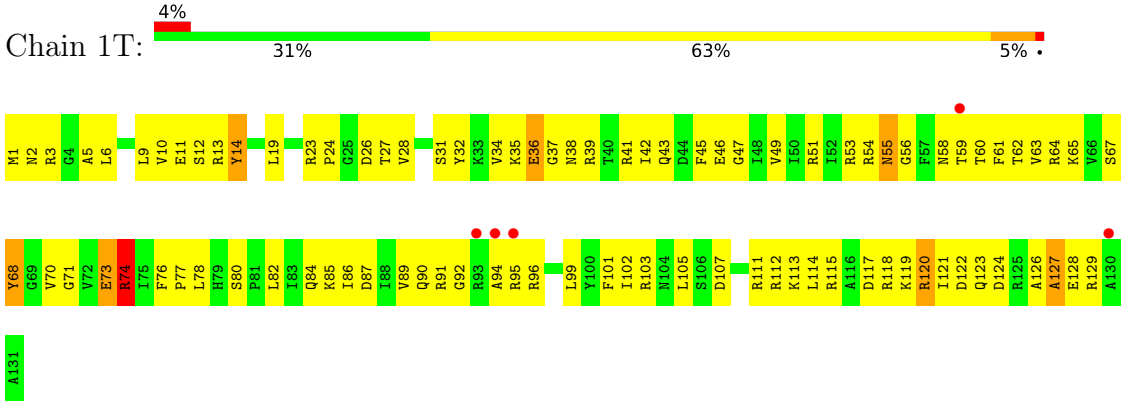
• Molecule 14: 50S ribosomal protein L18

Chain 2S:



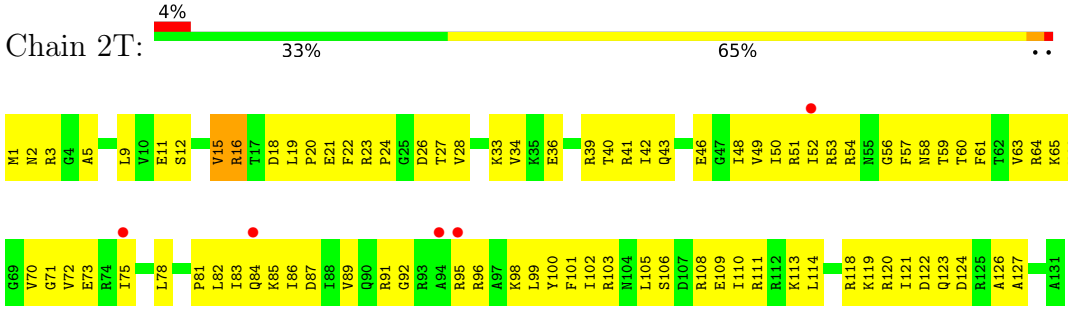
• Molecule 15: 50S ribosomal protein L19

Chain 1T:



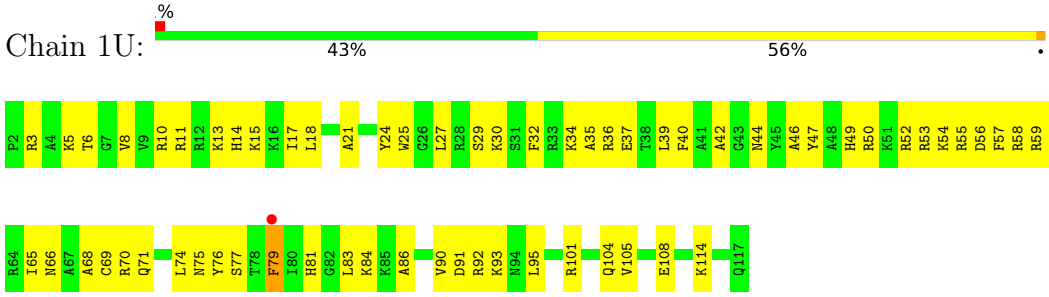
• Molecule 15: 50S ribosomal protein L19

Chain 2T:



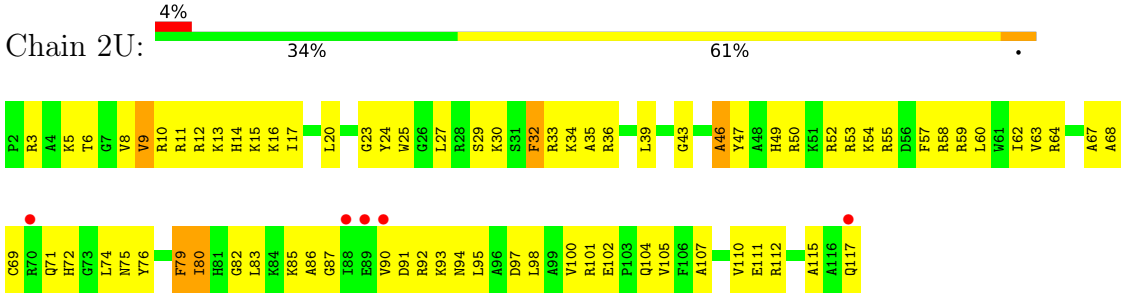
• Molecule 16: 50S ribosomal protein L20

Chain 1U:



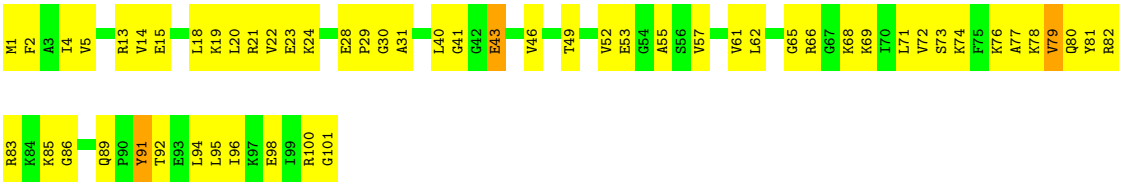
• Molecule 16: 50S ribosomal protein L20

Chain 2U:



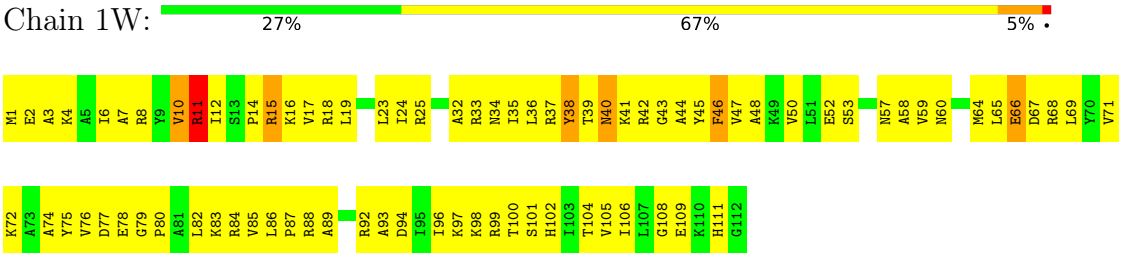
• Molecule 17: 50S ribosomal protein L21

Chain 1V:

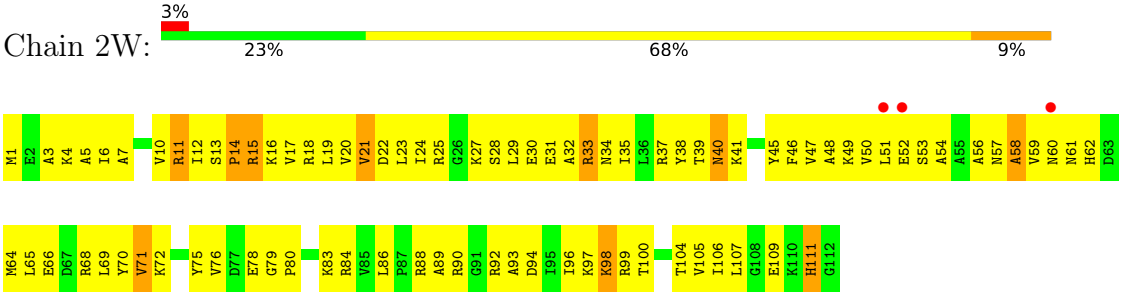


• Molecule 17: 50S ribosomal protein L21

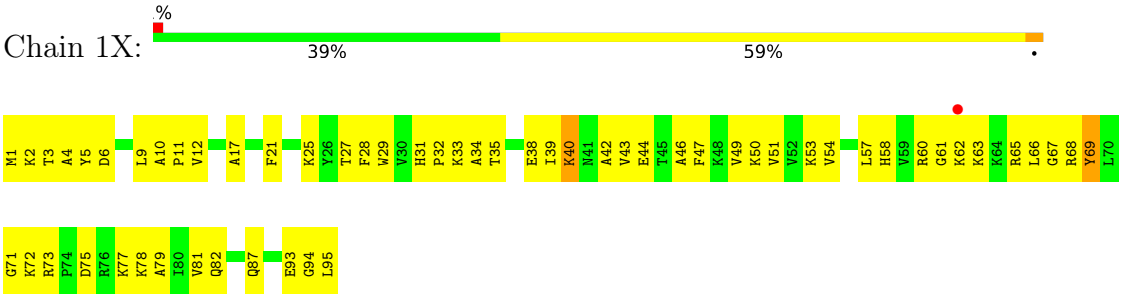
• Molecule 18: 50S ribosomal protein L22



• Molecule 18: 50S ribosomal protein L22

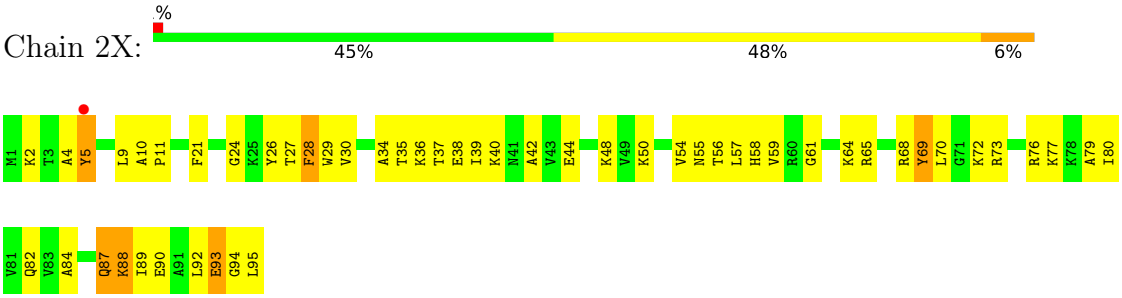


• Molecule 19: 50S ribosomal protein L23



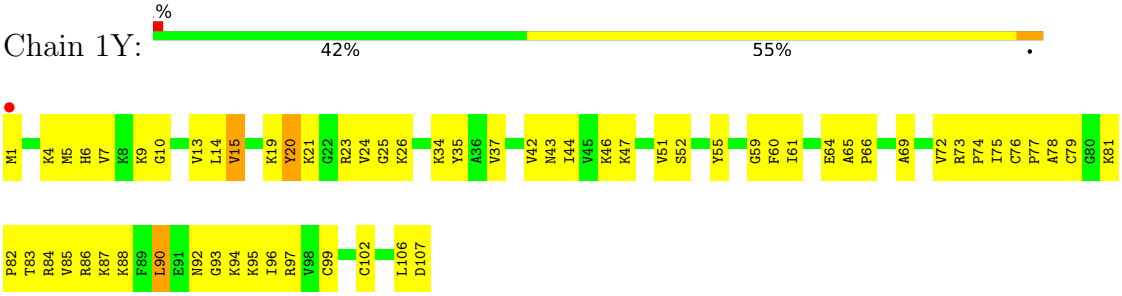
• Molecule 19: 50S ribosomal protein L23

Chain 2X:



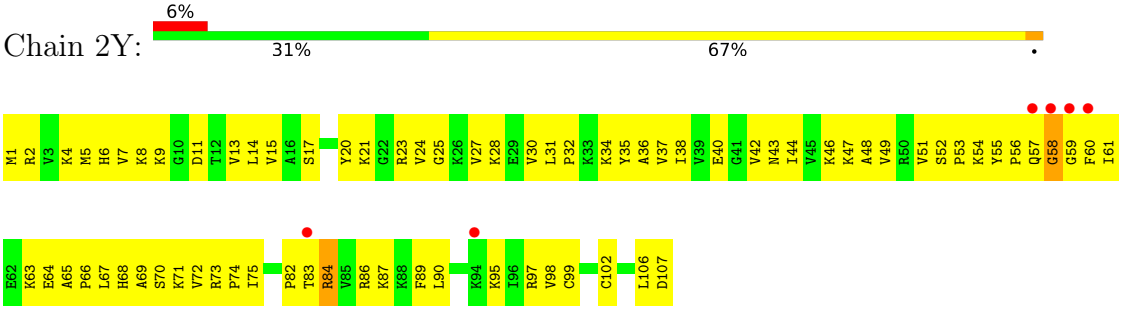
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:



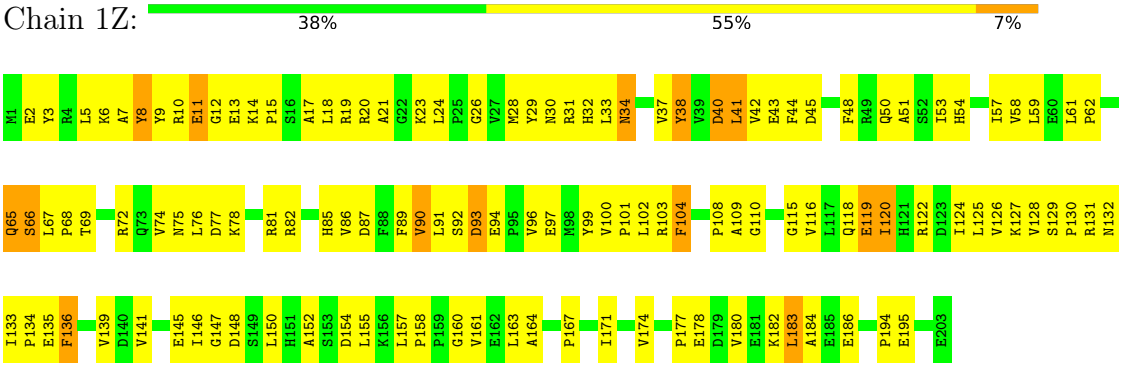
• Molecule 20: 50S ribosomal protein L24

Chain 2Y:



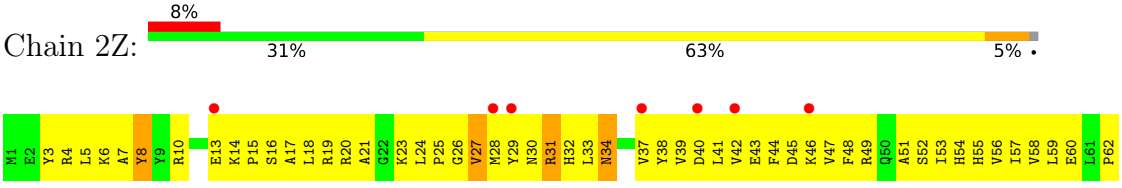
• Molecule 21: 50S ribosomal protein L25

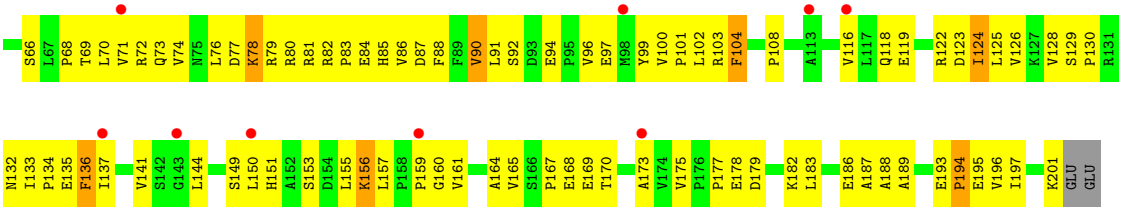
Chain 1Z:



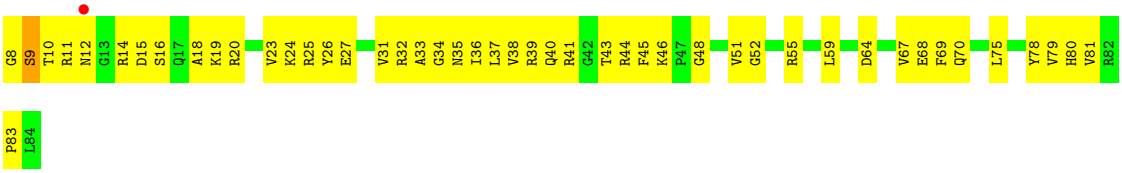
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:

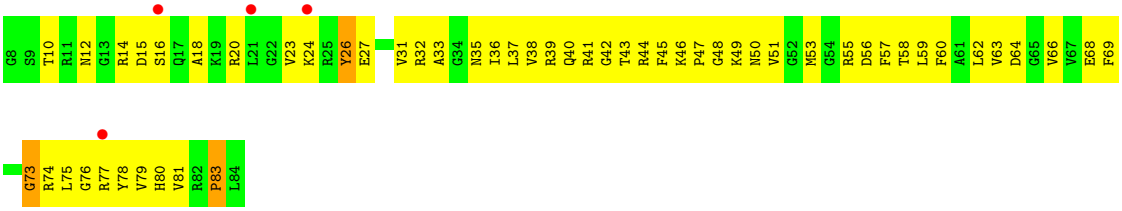




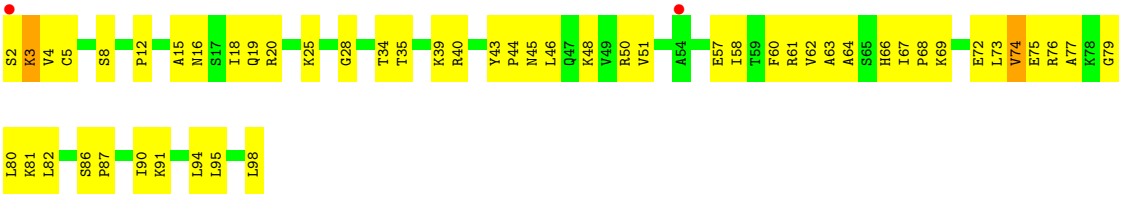
• Molecule 22: 50S ribosomal protein L27



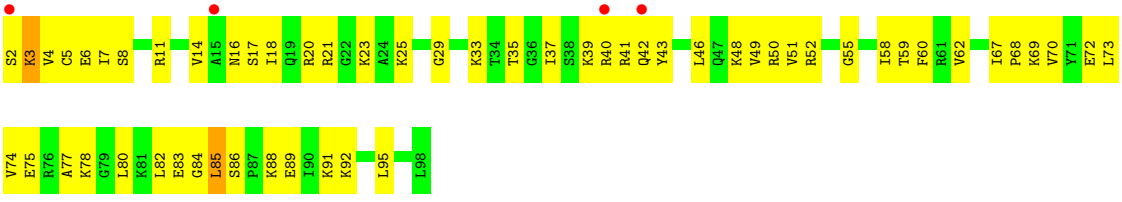
• Molecule 22: 50S ribosomal protein L27



• Molecule 23: 50S ribosomal protein L28

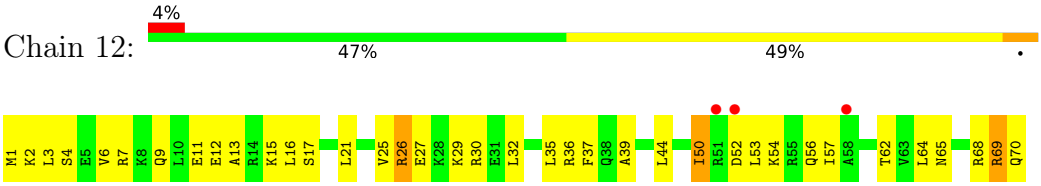


• Molecule 23: 50S ribosomal protein L28



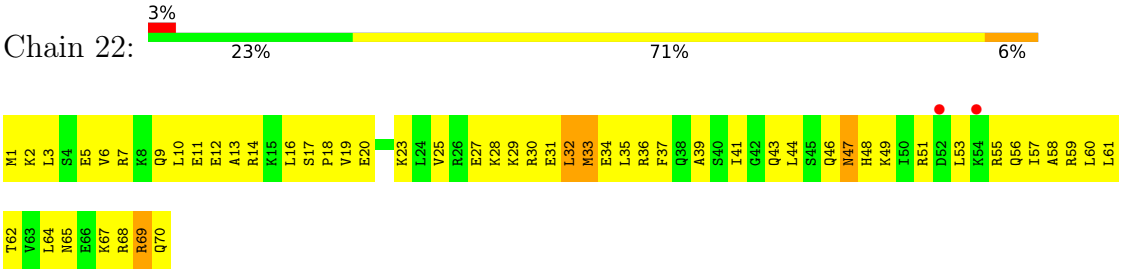
• Molecule 24: 50S ribosomal protein L29

Chain 12:



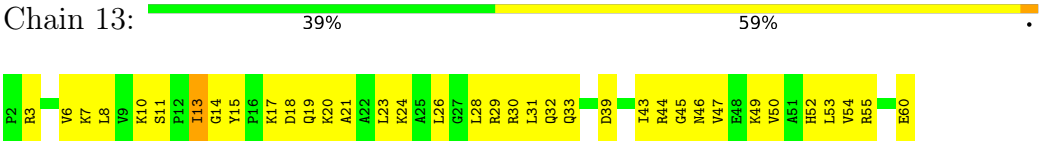
• Molecule 24: 50S ribosomal protein L29

Chain 22:



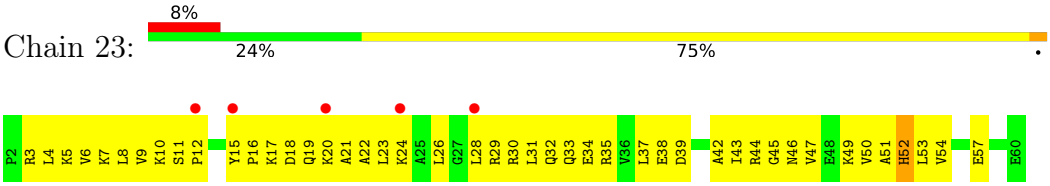
• Molecule 25: 50S ribosomal protein L30

Chain 13:



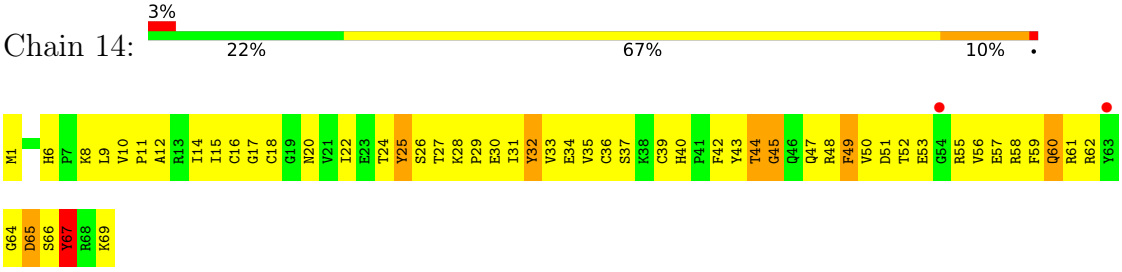
• Molecule 25: 50S ribosomal protein L30

Chain 23:



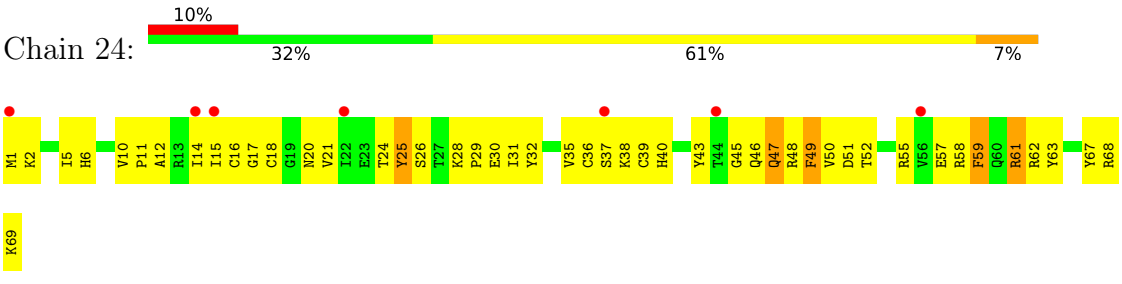
• Molecule 26: 50S ribosomal protein L31

Chain 14:



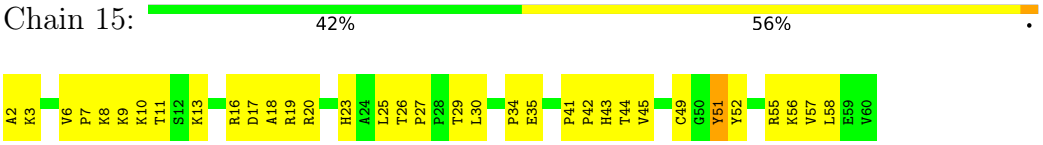
• Molecule 26: 50S ribosomal protein L31

Chain 24:



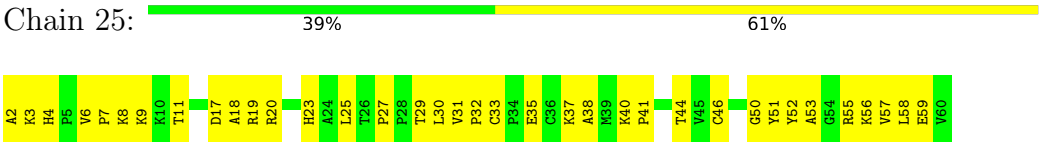
• Molecule 27: 50S ribosomal protein L32

Chain 15:



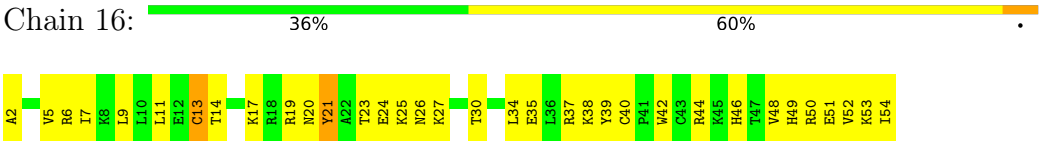
• Molecule 27: 50S ribosomal protein L32

Chain 25:



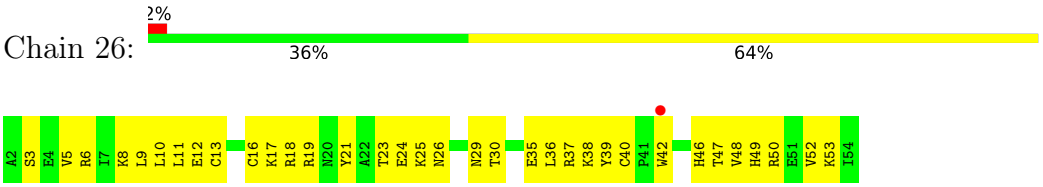
• Molecule 28: 50S ribosomal protein L33

Chain 16:



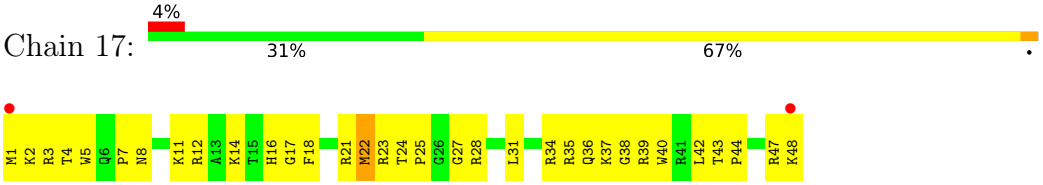
• Molecule 28: 50S ribosomal protein L33

Chain 26:



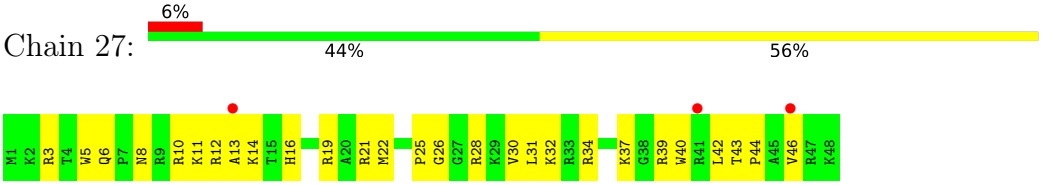
• Molecule 29: 50S ribosomal protein L34

Chain 17:



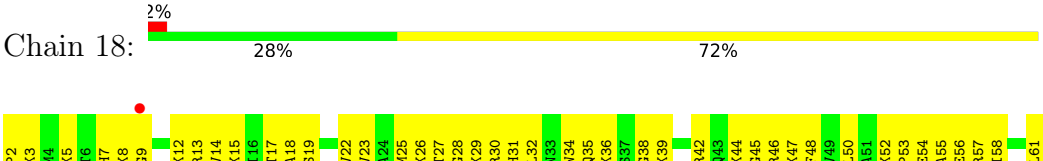
• Molecule 29: 50S ribosomal protein L34

Chain 27:



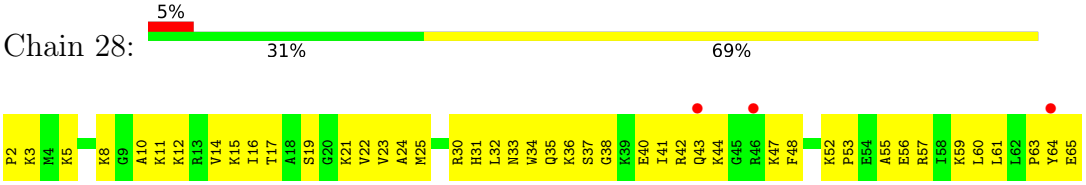
• Molecule 30: 50S ribosomal protein L35

Chain 18:



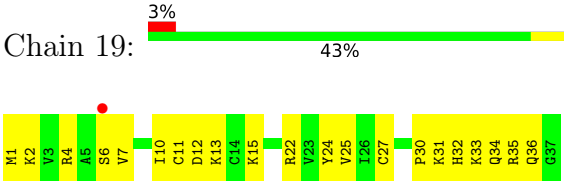
• Molecule 30: 50S ribosomal protein L35

Chain 28:



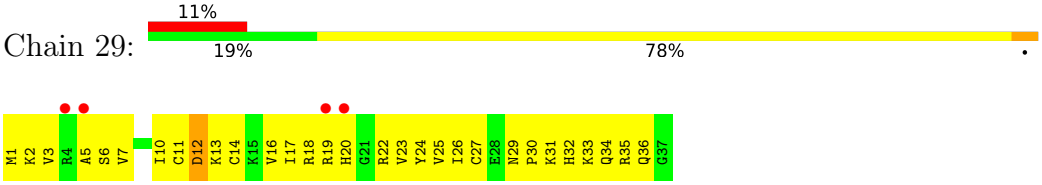
• Molecule 31: 50S ribosomal protein L36

Chain 19:



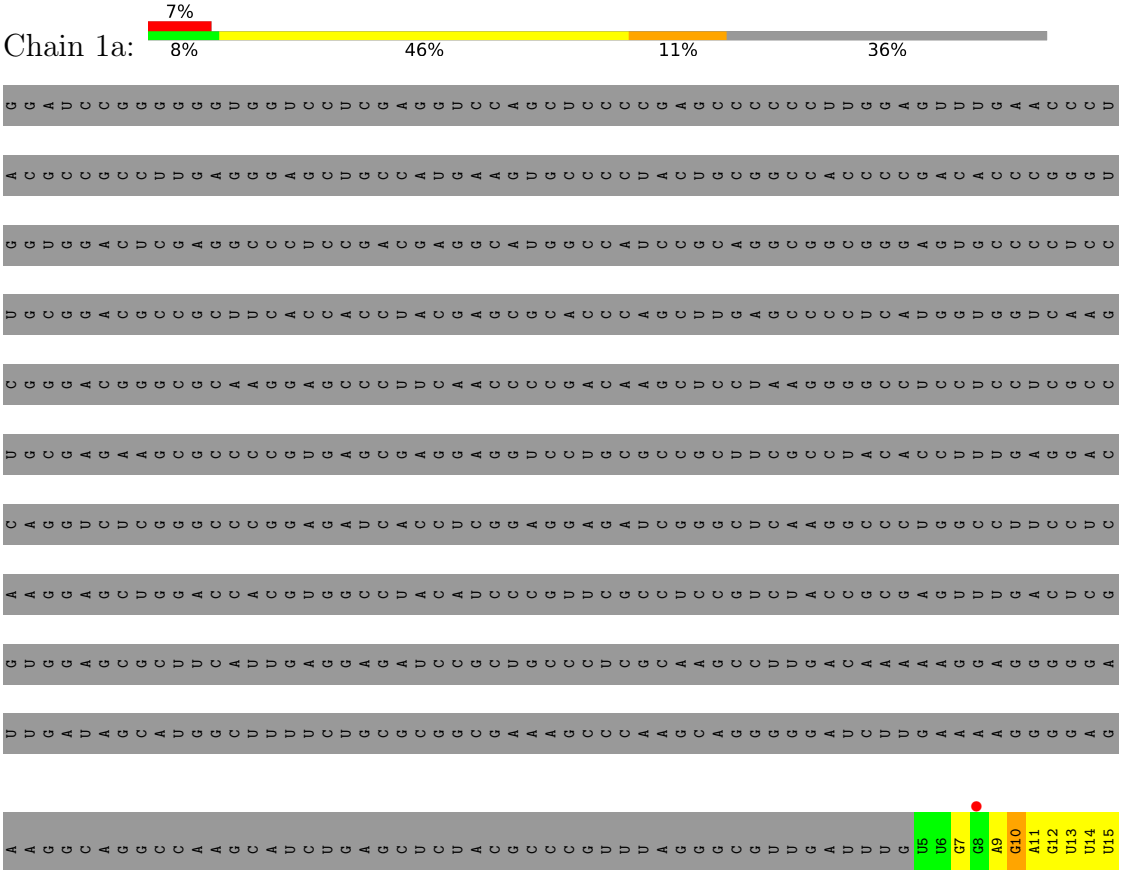
• Molecule 31: 50S ribosomal protein L36

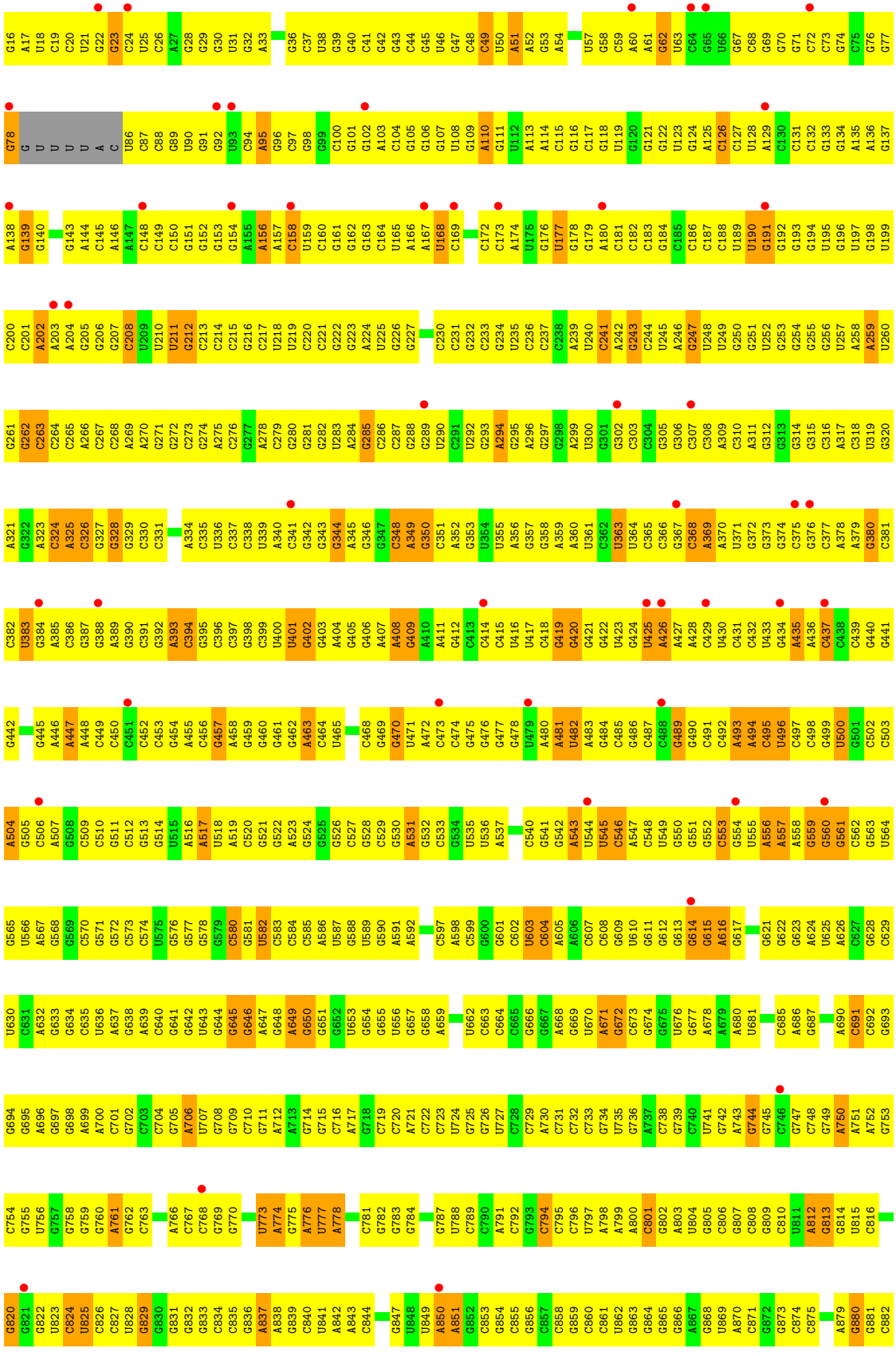
Chain 29:

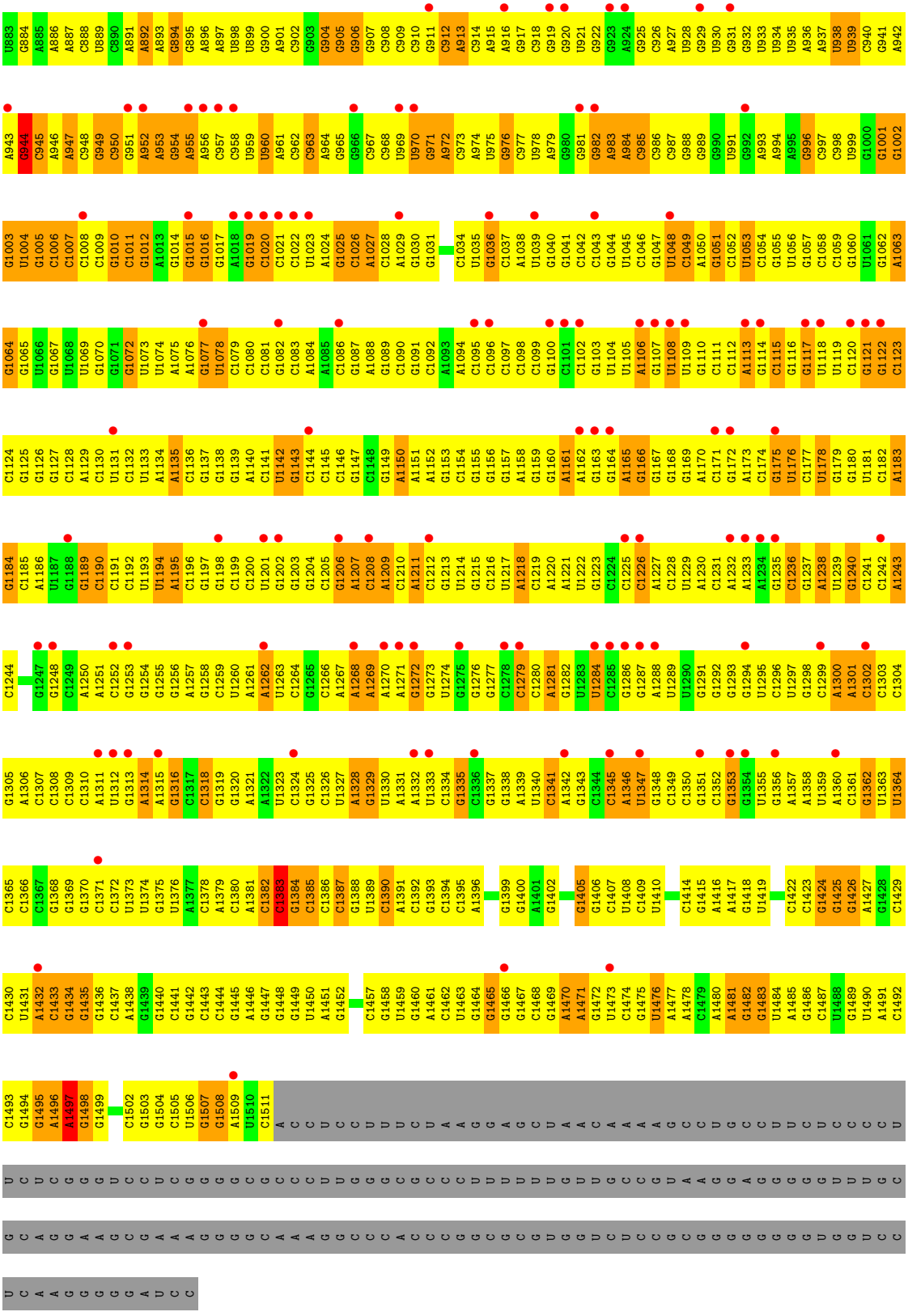


• Molecule 32: 16S Ribosomal RNA

Chain 1a:

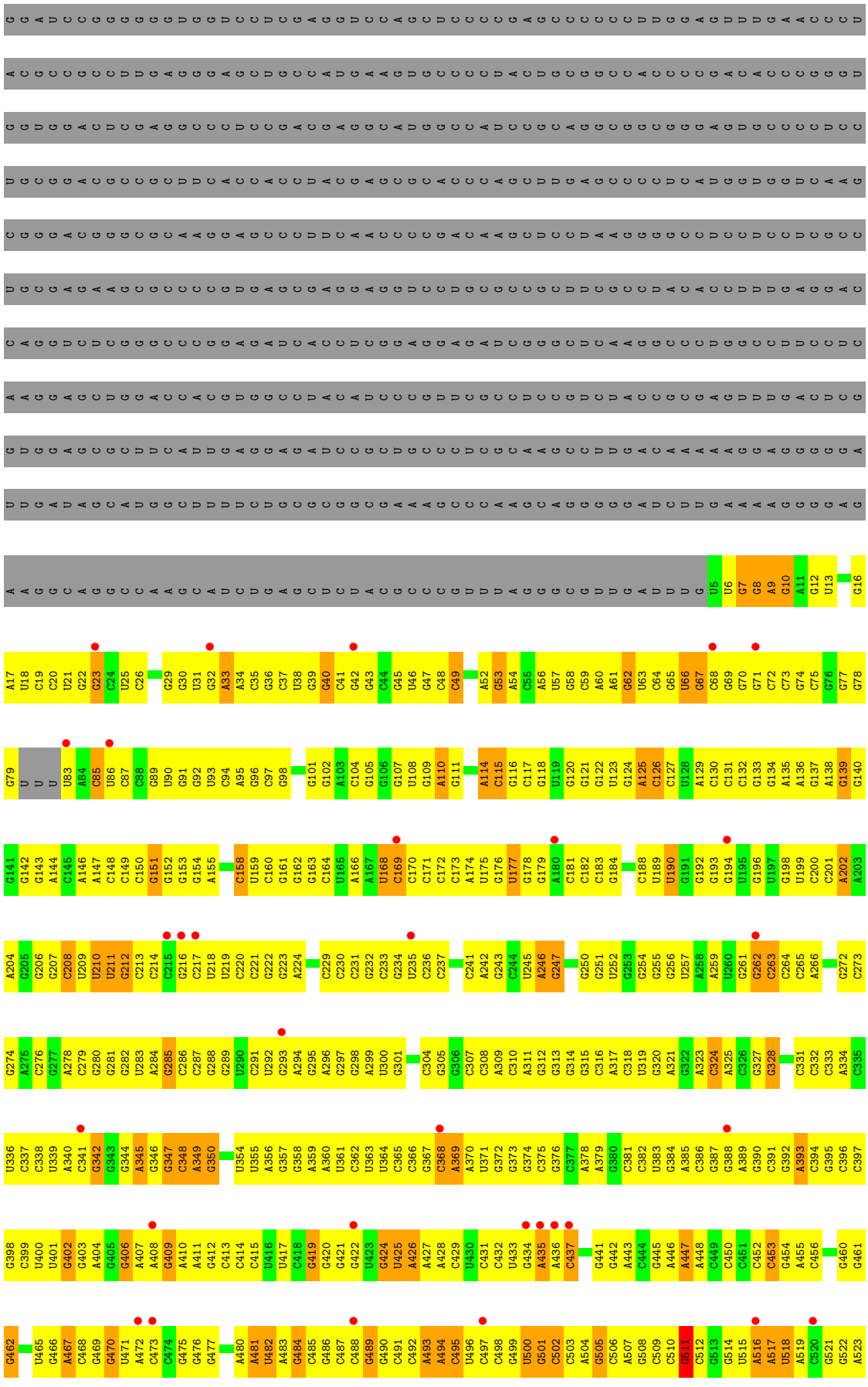


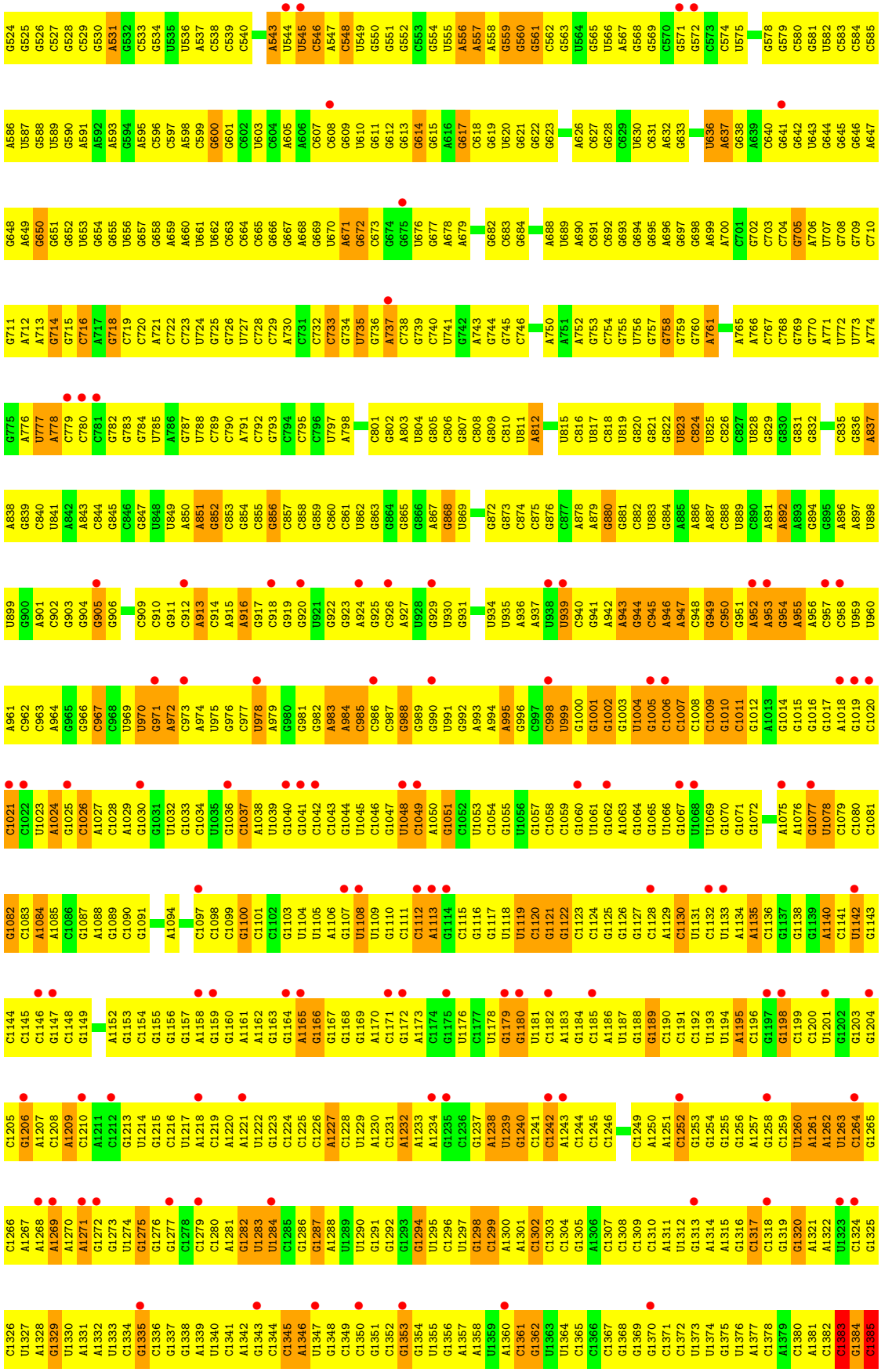


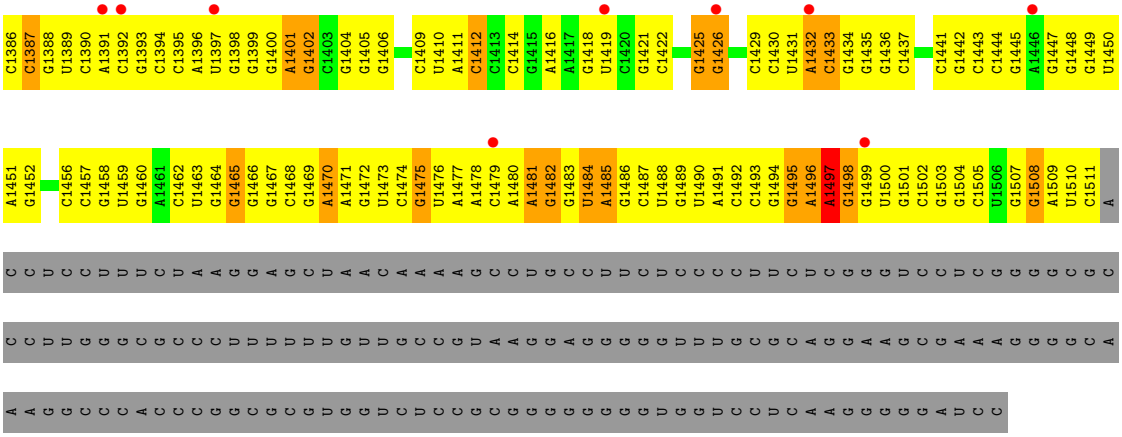


• Molecule 32: 16S Ribosomal RNA

Chain 2a:

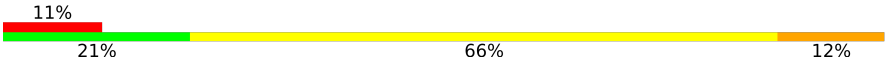


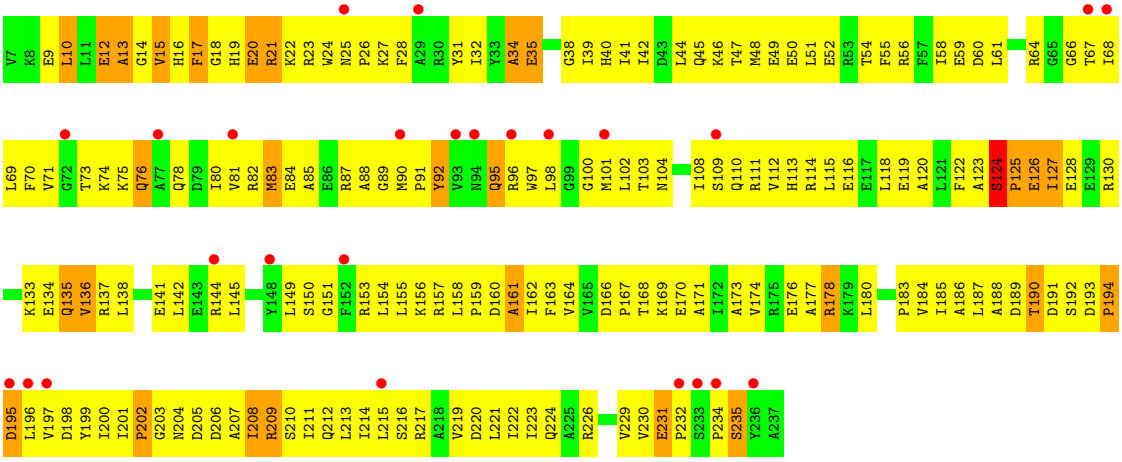




• Molecule 33: 30S ribosomal protein S2

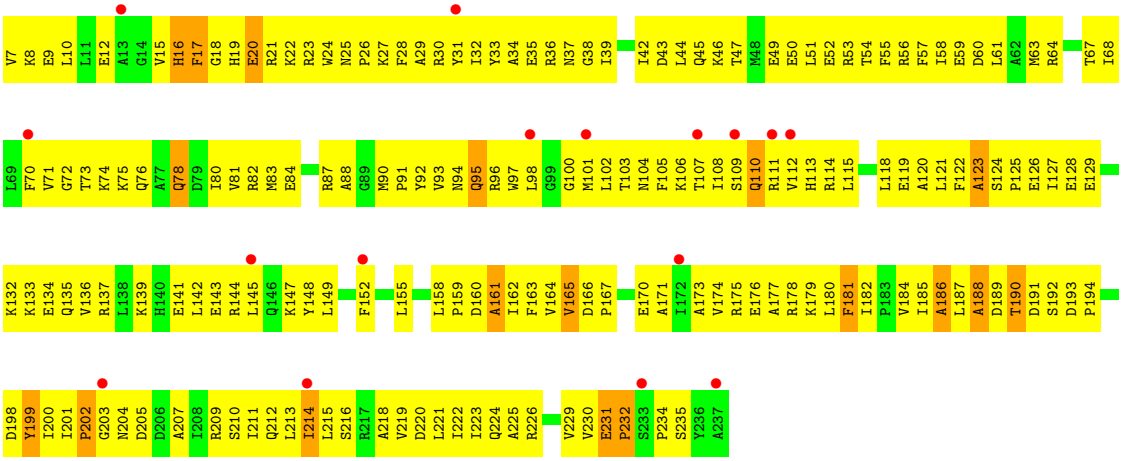
Chain 1b:





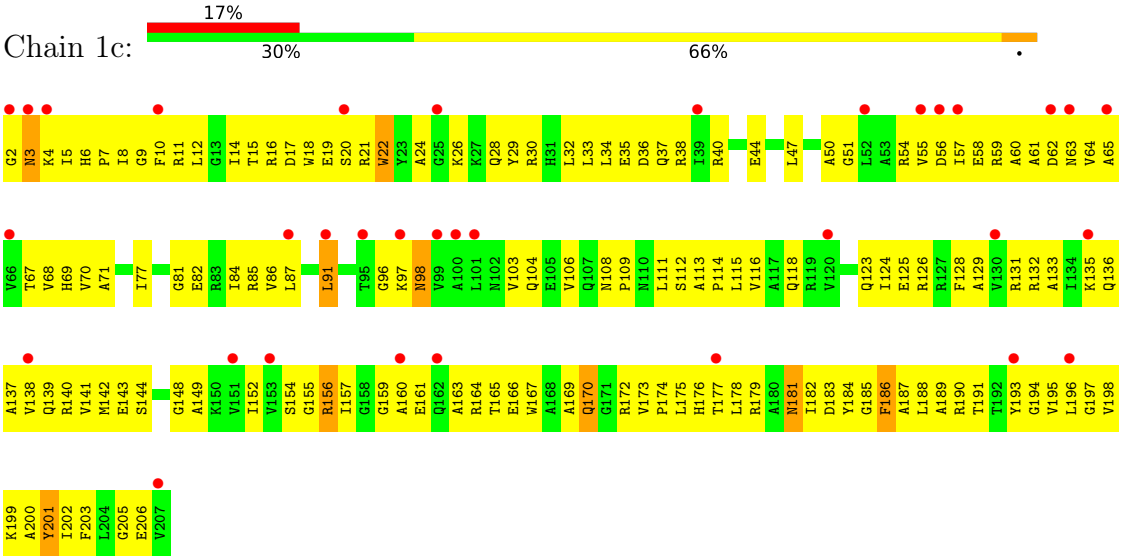
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



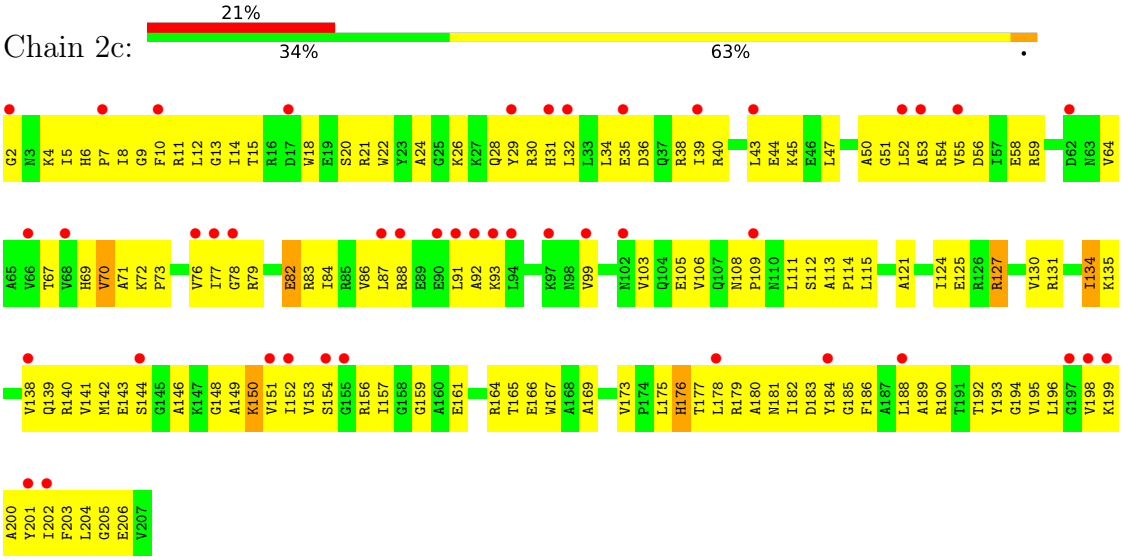
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



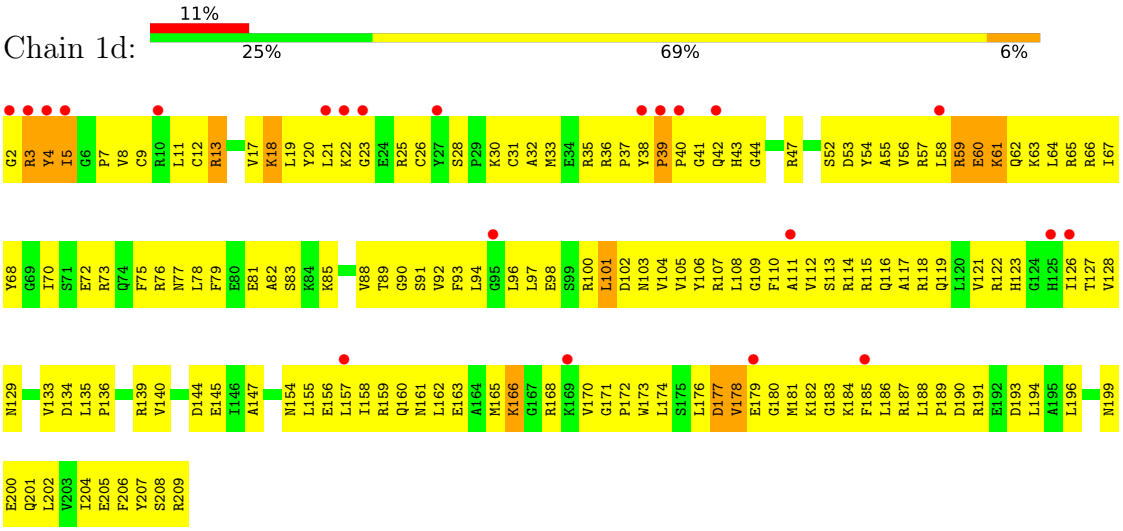
• Molecule 34: 30S ribosomal protein S3

Chain 2c:



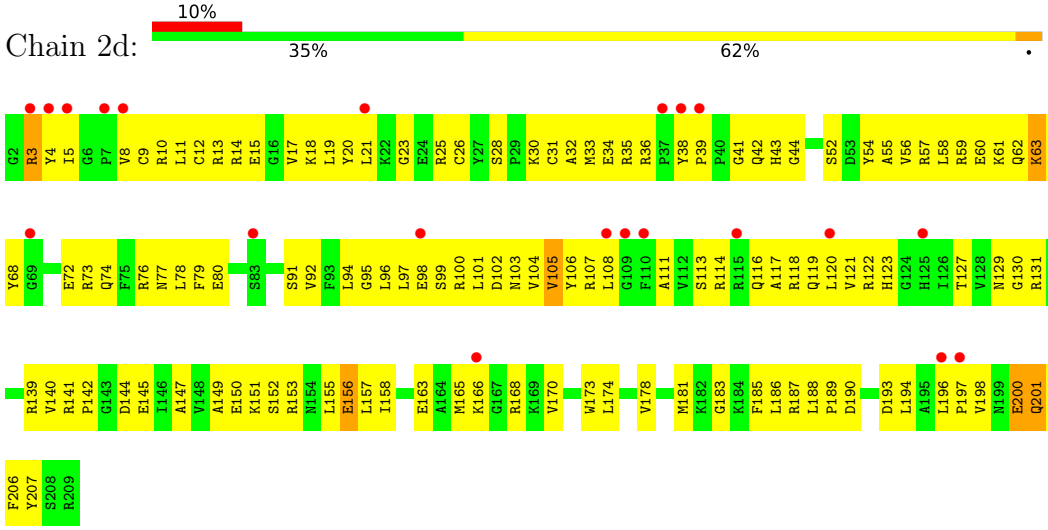
• Molecule 35: 30S ribosomal protein S4

Chain 1d:



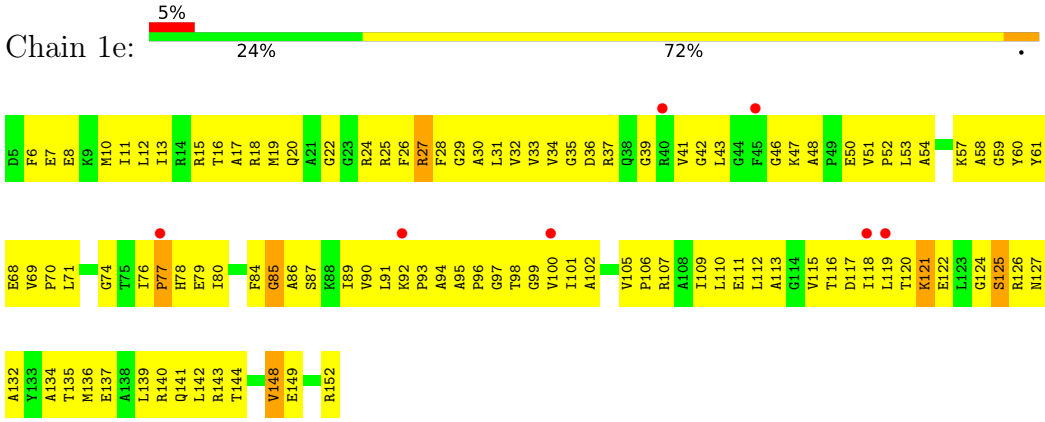
• Molecule 35: 30S ribosomal protein S4

Chain 2d:



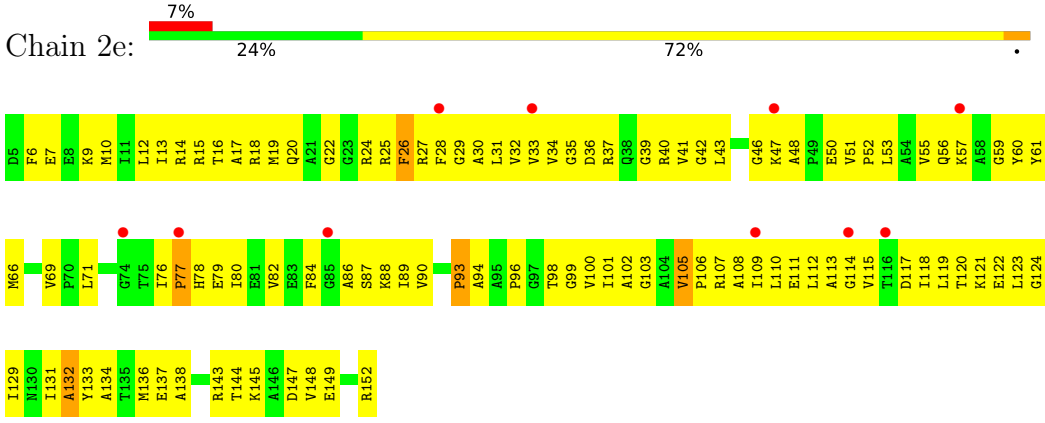
• Molecule 36: 30S ribosomal protein S5

Chain 1e:



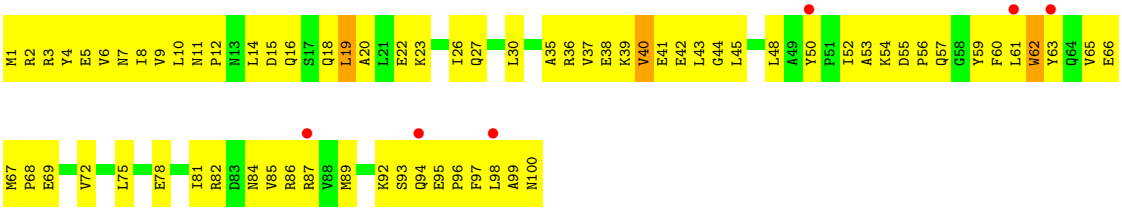
• Molecule 36: 30S ribosomal protein S5

Chain 2e:

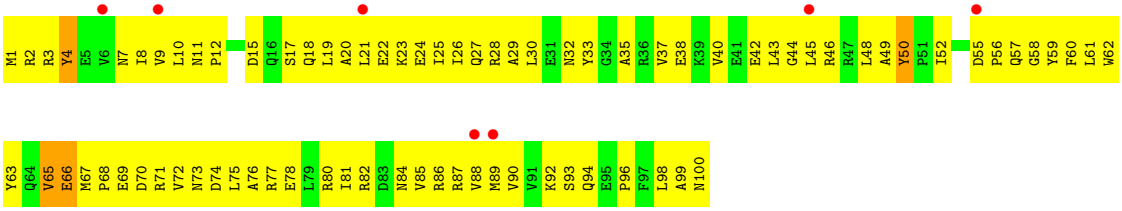


• Molecule 37: 30S ribosomal protein S6

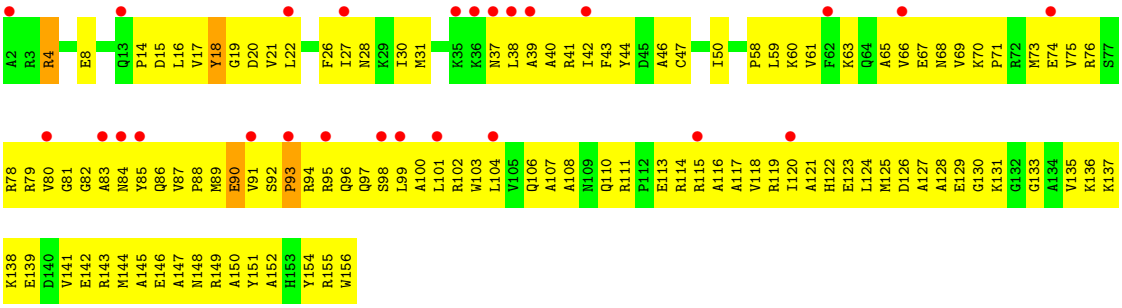
Chain 1f:



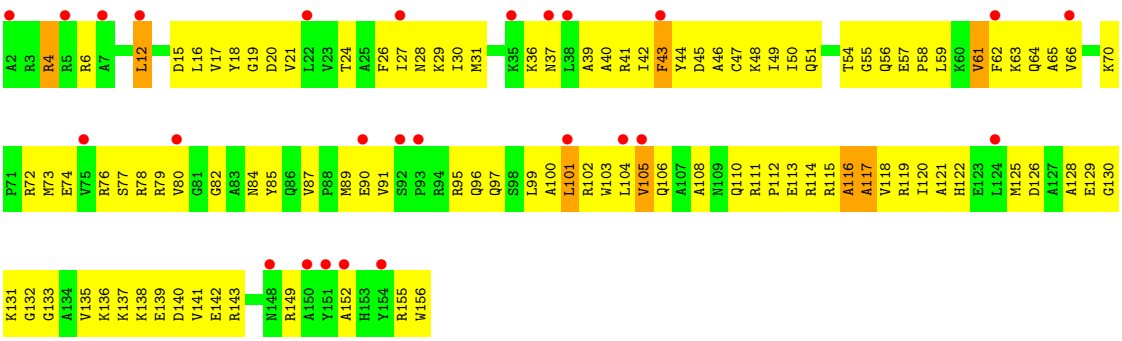
• Molecule 37: 30S ribosomal protein S6



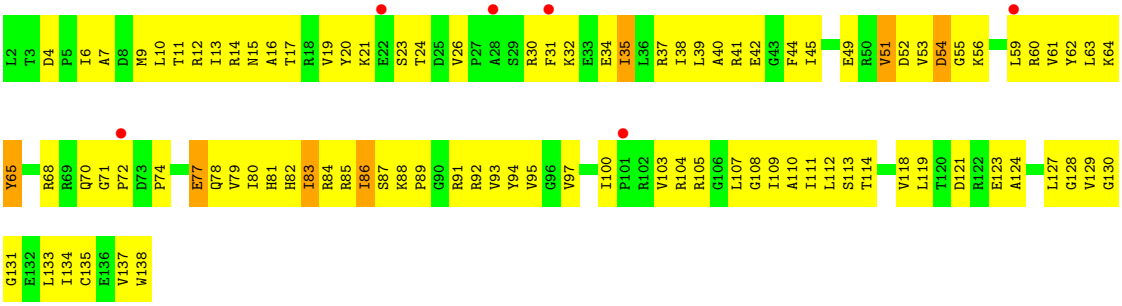
• Molecule 38: 30S ribosomal protein S7



• Molecule 38: 30S ribosomal protein S7

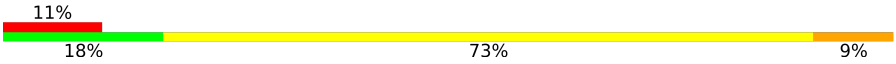


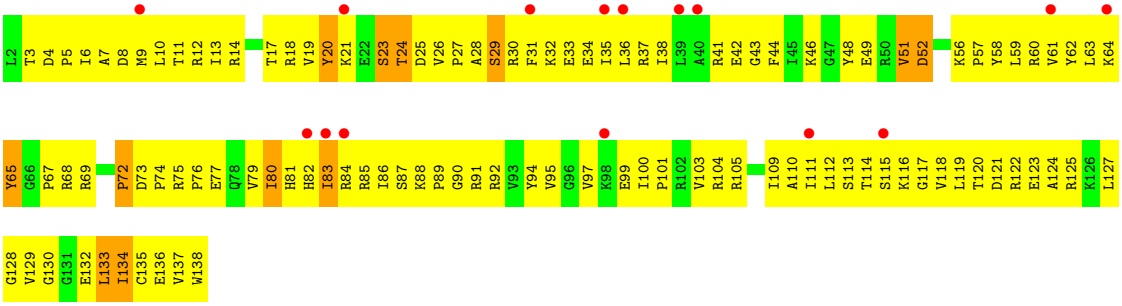
• Molecule 39: 30S ribosomal protein S8



• Molecule 39: 30S ribosomal protein S8

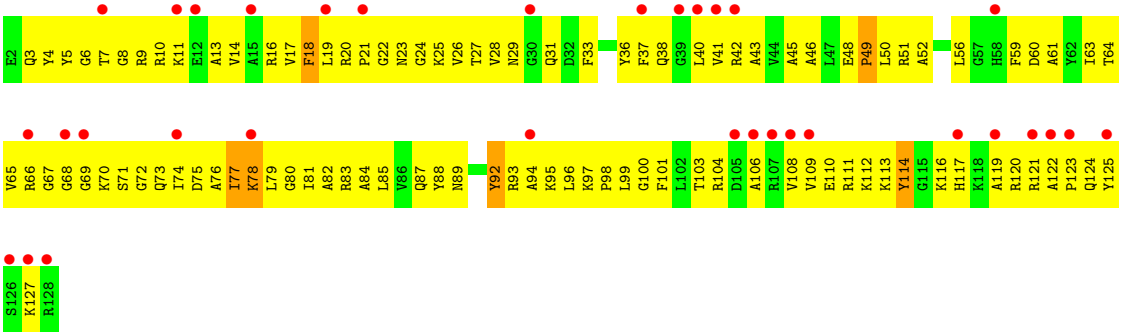
Chain 2h:





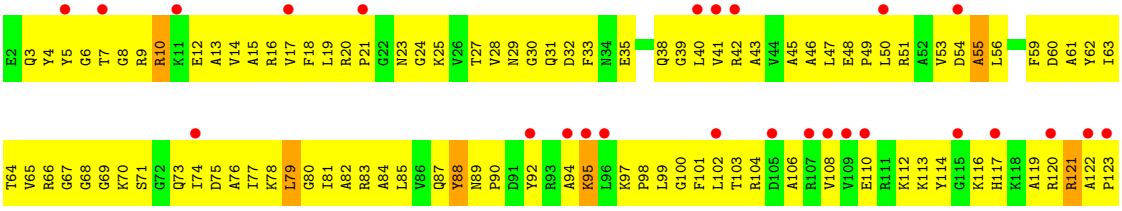
• Molecule 40: 30S ribosomal protein S9

Chain 1i:



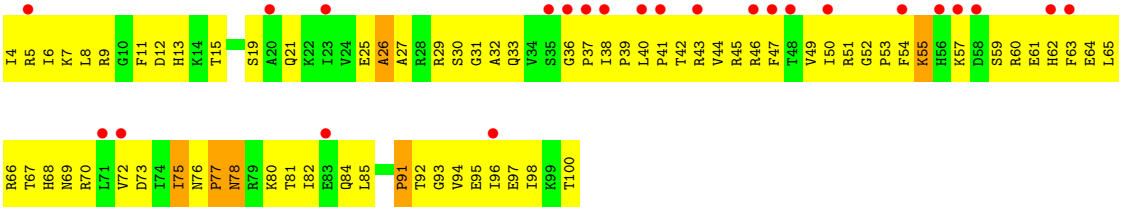
• Molecule 40: 30S ribosomal protein S9

Chain 2i:



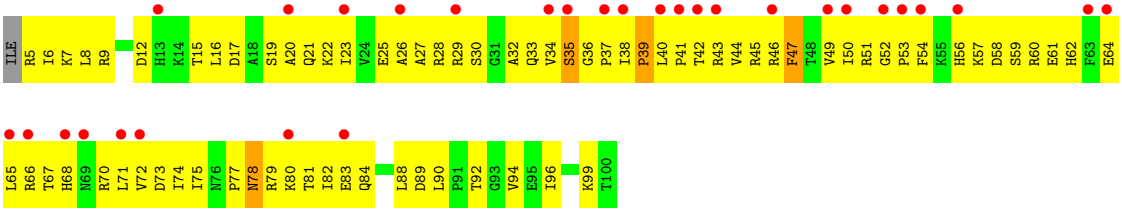
• Molecule 41: 30S ribosomal protein S10

Chain 1j:



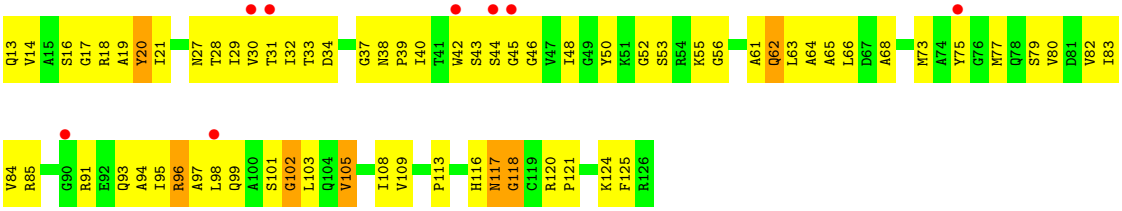
• Molecule 41: 30S ribosomal protein S10

Chain 2j:



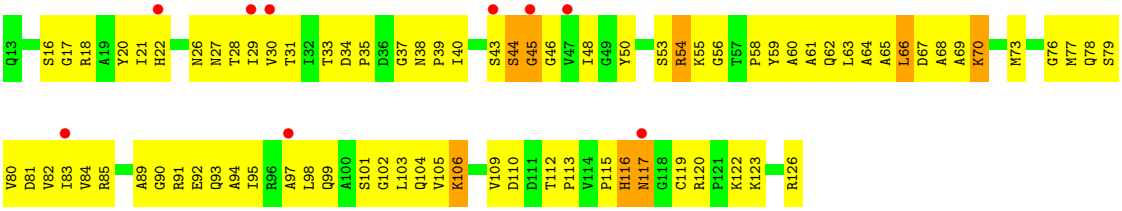
• Molecule 42: 30S ribosomal protein S11

Chain 1k:



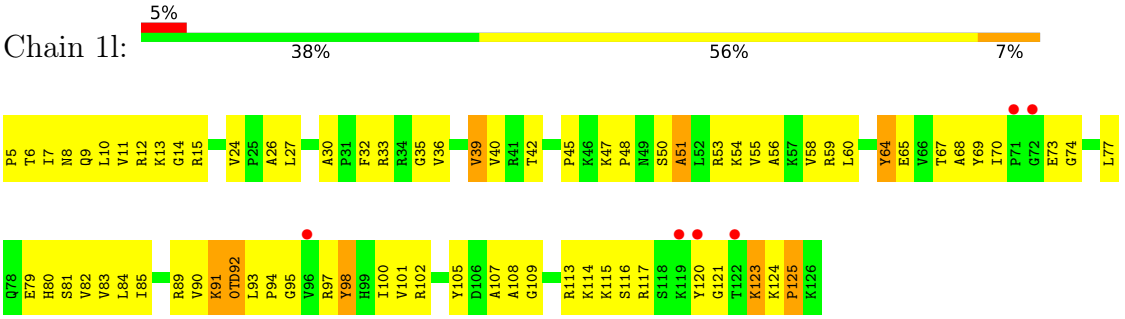
• Molecule 42: 30S ribosomal protein S11

Chain 2k:



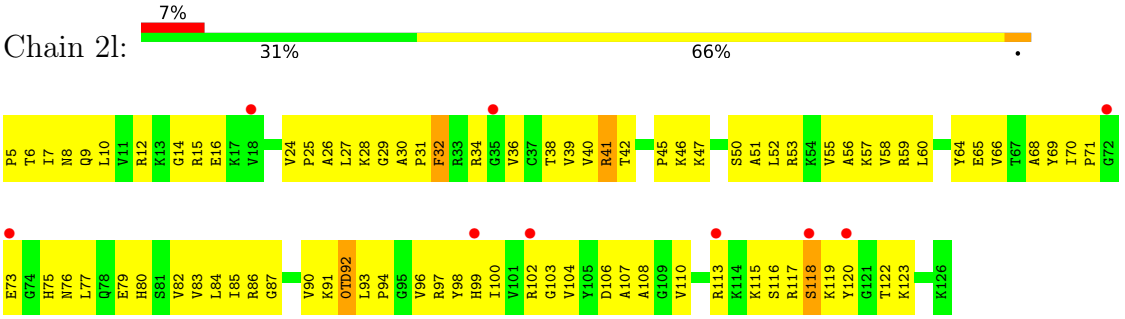
• Molecule 43: 30S ribosomal protein S12

Chain 1l:



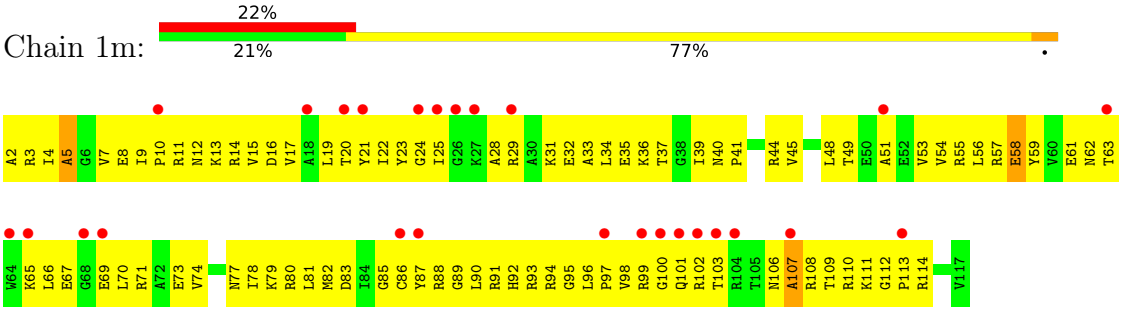
• Molecule 43: 30S ribosomal protein S12

Chain 2l:



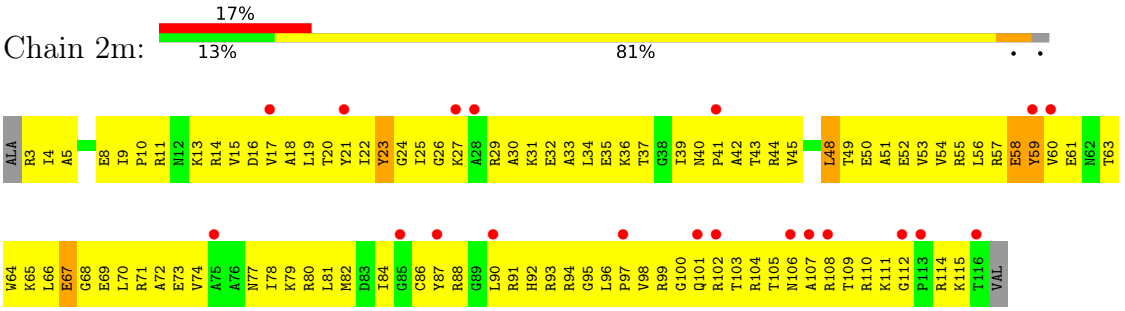
• Molecule 44: 30S ribosomal protein S13

Chain 1m:



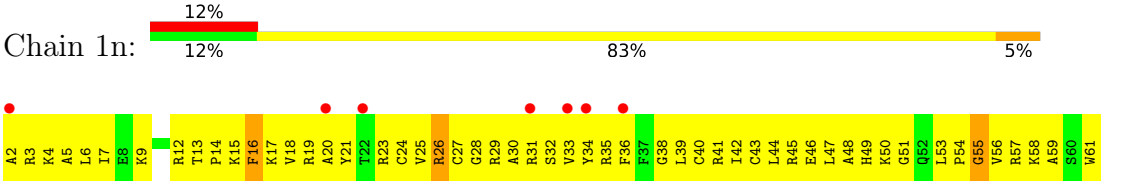
• Molecule 44: 30S ribosomal protein S13

Chain 2m:



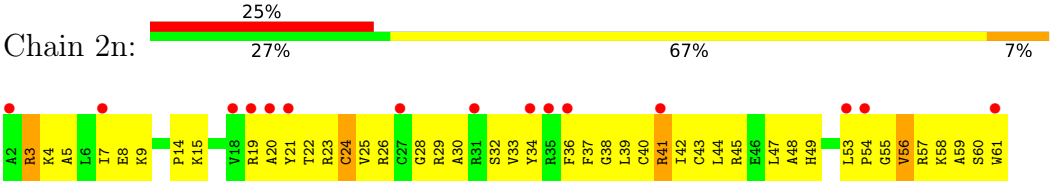
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 1n:



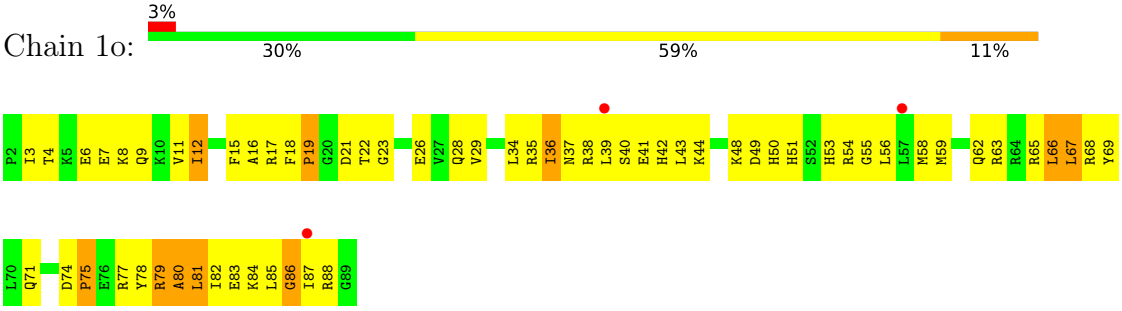
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 2n:



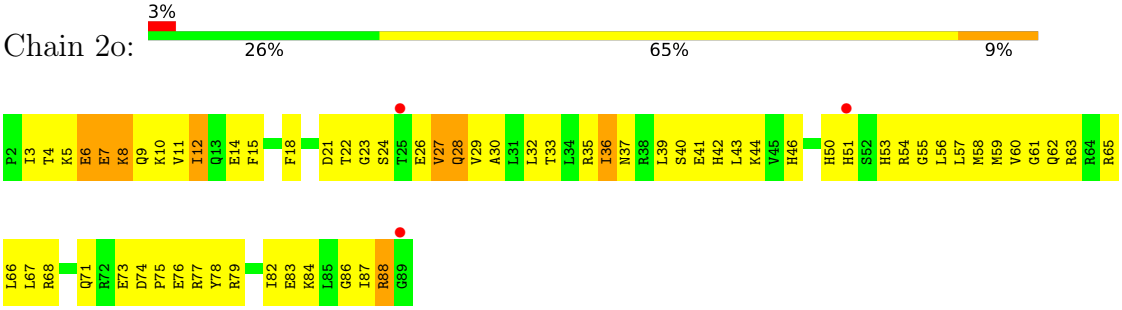
• Molecule 46: 30S ribosomal protein S15

Chain 1o:



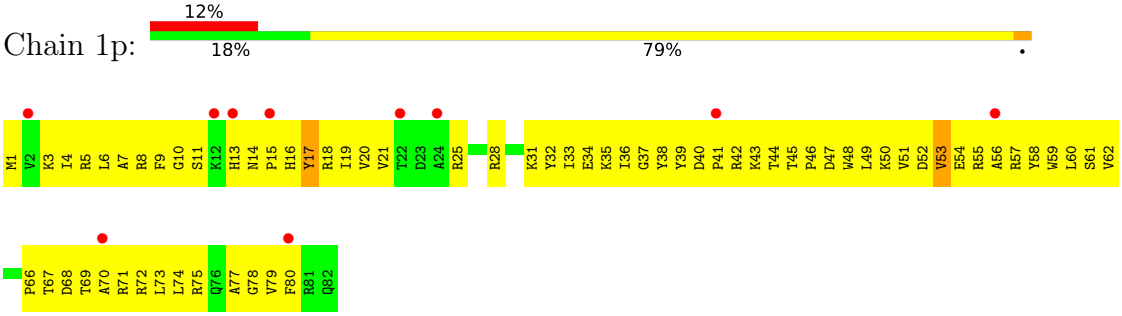
• Molecule 46: 30S ribosomal protein S15

Chain 2o:



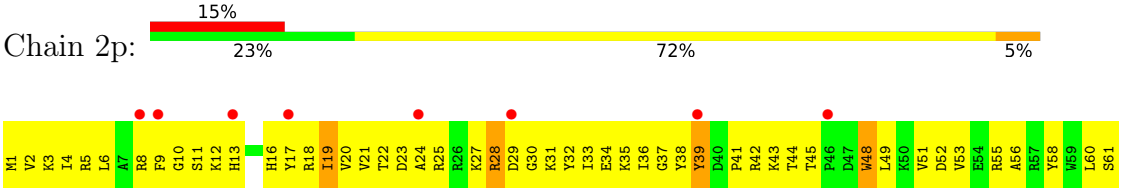
• Molecule 47: 30S ribosomal protein S16

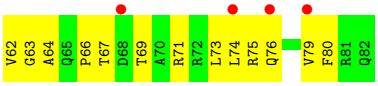
Chain 1p:



• Molecule 47: 30S ribosomal protein S16

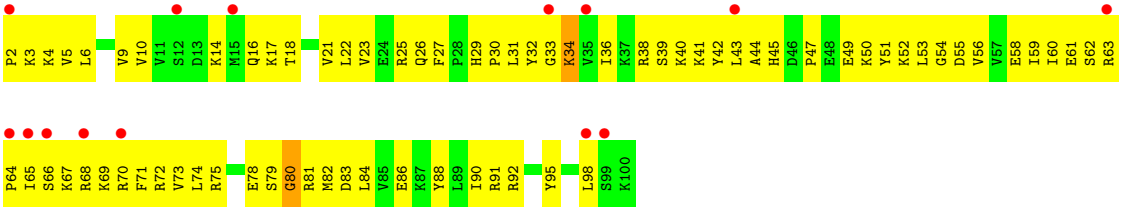
Chain 2p:





• Molecule 48: 30S ribosomal protein S17

Chain 1q:

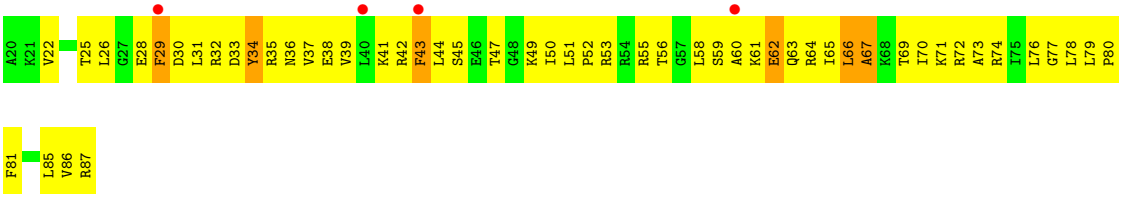


• Molecule 48: 30S ribosomal protein S17

Chain 2q:

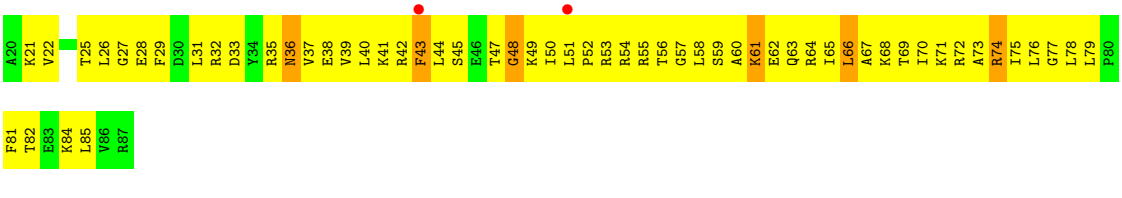
• Molecule 49: 30S ribosomal protein S18

Chain 1r:



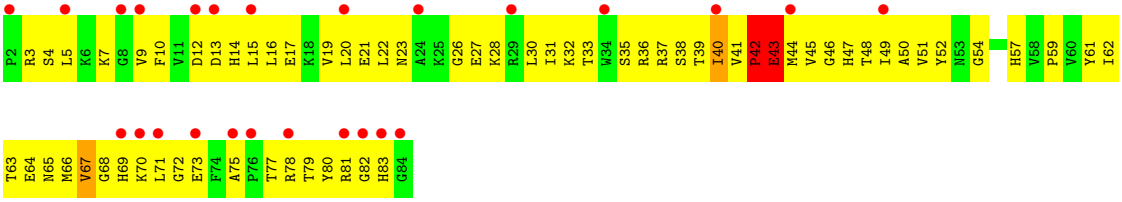
• Molecule 49: 30S ribosomal protein S18

Chain 2r:

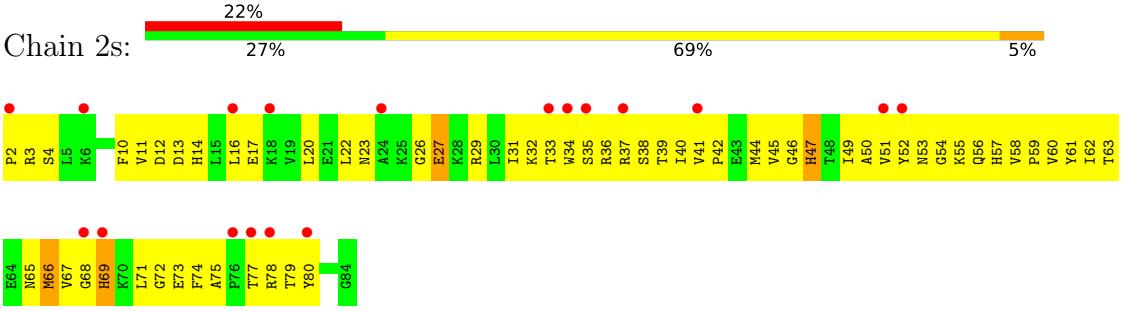


• Molecule 50: 30S ribosomal protein S19

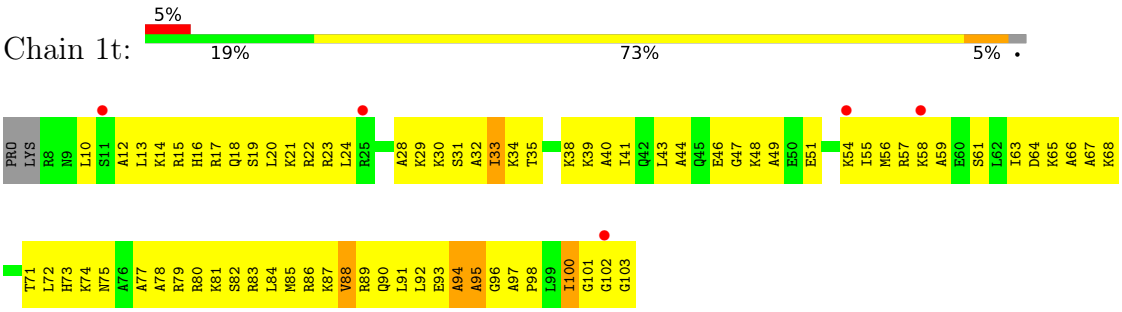
Chain 1s:



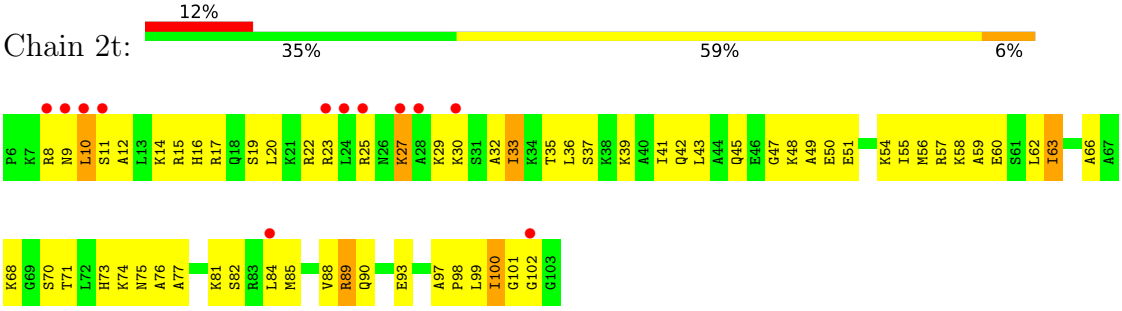
• Molecule 50: 30S ribosomal protein S19



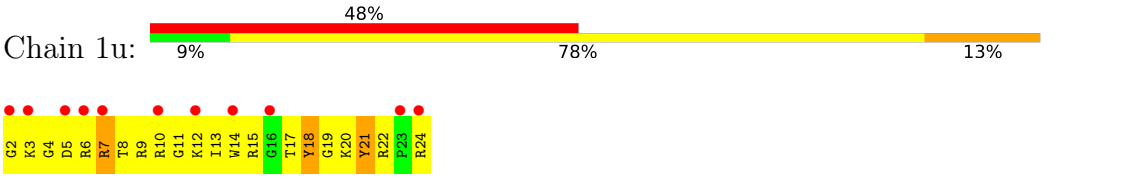
• Molecule 51: 30S ribosomal protein S20



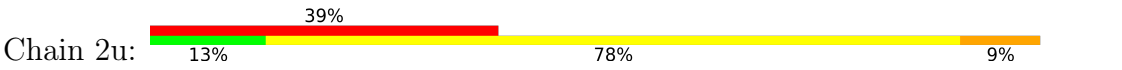
• Molecule 51: 30S ribosomal protein S20



• Molecule 52: 30S ribosomal protein Thx



• Molecule 52: 30S ribosomal protein Thx



G2
K3
G4
D5
R6
R7
T8
R9
R10
G11
K12
I13
W14
R15
G16
T17
Y18
G19
K20
Y21
R22
P23
R24

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.04Å 449.52Å 624.08Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.92 – 3.14 49.92 – 3.14	Depositor EDS
% Data completeness (in resolution range)	97.8 (49.92-3.14) 86.5 (49.92-3.14)	Depositor EDS
R_{merge}	0.33	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.26 (at 3.12Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.238 , 0.292 0.238 , 0.292	Depositor DCC
R_{free} test set	49960 reflections (2.52%)	wwPDB-VP
Wilson B-factor (Å^2)	74.6	Xtriage
Anisotropy	0.421	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 266.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.40$, $< L^2 > = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.85	EDS
Total number of atoms	290633	wwPDB-VP
Average B, all atoms (Å^2)	108.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 2MA, SF4, MG, 5MU, MPD, UR3, 0TD, FSD, M2G, OMG, OMU, PSU, 4OC, MA6, OMC, 2MG, ZN, G7M, 5MC

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	1A	0.08	0/69029	0.24	0/107749
1	2A	0.08	0/68903	0.23	0/107552
2	1B	0.08	0/2876	0.23	0/4486
2	2B	0.08	0/2878	0.22	0/4490
3	1D	0.14	0/2181	0.46	0/2940
3	2D	0.28	1/2186 (0.0%)	0.50	4/2944 (0.1%)
4	1E	0.14	0/1592	0.44	0/2149
4	2E	0.14	0/1592	0.43	0/2149
5	1F	0.13	0/1619	0.38	0/2193
5	2F	0.12	0/1615	0.38	0/2188
6	1G	0.12	0/1451	0.40	0/1961
6	2G	0.11	0/1449	0.43	0/1957
7	1H	0.12	0/1356	0.37	0/1834
7	2H	0.12	0/1350	0.42	2/1826 (0.1%)
8	1I	0.12	0/1109	0.39	0/1512
8	2I	0.12	0/1095	0.36	0/1494
9	1N	0.11	0/1148	0.37	0/1547
9	2N	0.11	0/1144	0.40	0/1543
10	1O	0.11	0/943	0.38	0/1269
10	2O	0.15	0/943	0.40	0/1269
11	1P	0.15	0/1152	0.42	0/1533
11	2P	0.13	0/1152	0.48	1/1533 (0.1%)
12	1Q	0.13	0/1143	0.43	0/1527
12	2Q	0.12	0/1143	0.39	0/1527
13	1R	0.16	0/982	0.46	0/1312
13	2R	0.12	0/982	0.41	0/1312
14	1S	0.12	0/887	0.40	0/1180
14	2S	0.13	0/880	0.41	0/1172
15	1T	0.36	1/1105 (0.1%)	0.61	3/1477 (0.2%)
15	2T	0.22	0/1097	0.55	4/1468 (0.3%)
16	1U	0.15	0/977	0.46	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
16	2U	0.12	0/977	0.40	0/1301
17	1V	0.12	0/786	0.40	0/1053
17	2V	0.16	0/782	0.46	0/1049
18	1W	0.47	2/897 (0.2%)	0.75	7/1205 (0.6%)
18	2W	0.12	0/897	0.44	0/1205
19	1X	0.09	0/764	0.36	0/1025
19	2X	0.13	0/764	0.36	0/1025
20	1Y	0.12	0/823	0.36	0/1099
20	2Y	0.13	0/823	0.39	0/1100
21	1Z	0.12	0/1620	0.38	0/2200
21	2Z	0.18	0/1590	0.50	1/2162 (0.0%)
22	10	0.12	0/616	0.39	0/821
22	20	0.13	0/616	0.44	0/821
23	11	0.14	0/761	0.42	0/1013
23	21	0.12	0/766	0.38	0/1018
24	12	0.11	0/590	0.39	0/781
24	22	0.16	0/594	0.51	0/785
25	13	0.12	0/474	0.38	0/635
25	23	0.14	0/469	0.47	0/630
26	14	0.21	0/559	0.62	1/754 (0.1%)
26	24	0.13	0/549	0.44	0/741
27	15	0.14	0/473	0.45	0/639
27	25	0.12	0/469	0.35	0/635
28	16	0.11	0/460	0.43	0/613
28	26	0.13	0/456	0.40	0/608
29	17	0.13	0/426	0.45	0/561
29	27	0.15	0/426	0.47	0/561
30	18	0.13	0/525	0.35	0/691
30	28	0.11	0/525	0.39	0/691
31	19	0.29	0/310	0.47	0/407
31	29	0.12	0/310	0.45	0/407
32	1a	0.09	0/35795	0.24	0/55864
32	2a	0.09	0/35890	0.24	0/56012
33	1b	0.16	0/1876	0.50	0/2533
33	2b	0.18	0/1860	0.47	0/2518
34	1c	0.13	0/1582	0.40	0/2137
34	2c	0.31	1/1566 (0.1%)	0.42	0/2119
35	1d	0.22	1/1695 (0.1%)	0.52	1/2274 (0.0%)
35	2d	0.14	0/1698	0.46	0/2277
36	1e	0.12	0/1149	0.41	0/1548
36	2e	0.13	0/1149	0.46	0/1548
37	1f	0.12	0/827	0.39	0/1120
37	2f	0.19	0/829	0.47	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	1g	0.12	0/1254	0.41	0/1683
38	2g	0.13	0/1248	0.43	0/1676
39	1h	0.13	0/1118	0.45	0/1506
39	2h	0.15	0/1108	0.42	0/1494
40	1i	0.16	0/1005	0.44	0/1351
40	2i	0.12	0/985	0.39	0/1329
41	1j	0.12	0/732	0.41	0/993
41	2j	0.12	0/723	0.36	0/984
42	1k	0.11	0/849	0.37	0/1150
42	2k	0.27	0/848	0.52	2/1149 (0.2%)
43	1l	0.13	0/937	0.44	0/1260
43	2l	0.12	0/937	0.43	0/1260
44	1m	0.13	0/924	0.45	0/1242
44	2m	0.13	0/905	0.45	0/1217
45	1n	0.16	0/501	0.48	0/664
45	2n	0.14	0/501	0.42	0/664
46	1o	0.12	0/739	0.47	0/985
46	2o	0.11	0/739	0.43	0/985
47	1p	0.12	0/697	0.41	0/939
47	2p	0.13	0/693	0.47	0/935
48	1q	0.11	0/836	0.41	0/1117
48	2q	0.12	0/836	0.39	0/1117
49	1r	0.23	0/560	0.52	0/746
49	2r	0.18	0/560	0.48	0/746
50	1s	0.45	1/663 (0.2%)	0.88	8/895 (0.9%)
50	2s	0.14	0/660	0.47	0/893
51	1t	0.12	0/734	0.42	0/969
51	2t	0.16	0/736	0.42	0/976
52	1u	0.21	0/203	0.55	0/266
52	2u	0.14	0/203	0.49	0/266
All	All	0.12	7/308406 (0.0%)	0.31	34/461160 (0.0%)

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	2D	0	1
26	14	0	1
26	24	0	1
33	1b	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
42	2k	0	1
50	1s	0	2
All	All	0	7

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	1W	11	ARG	CZ-NH1	9.79	1.46	1.32
34	2c	127	ARG	CG-CD	7.68	1.75	1.52
3	2D	275	LYS	CE-NZ	7.17	1.70	1.49
50	1s	43	GLU	CB-CG	7.05	1.73	1.52
15	1T	74	ARG	CB-CG	6.58	1.72	1.52
18	1W	11	ARG	CZ-NH2	6.16	1.41	1.33
35	1d	39	PRO	CA-C	-5.37	1.49	1.51

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	1W	11	ARG	NE-CZ-NH2	-14.08	106.53	119.20
50	1s	43	GLU	CB-CG-CD	-10.30	95.08	112.60
15	1T	74	ARG	CG-CD-NE	8.50	130.71	112.00
42	2k	54	ARG	CB-CG-CD	-7.31	94.48	111.30
42	2k	54	ARG	CG-CD-NE	7.10	127.61	112.00
50	1s	43	GLU	CA-C-N	-7.08	111.11	122.23
50	1s	43	GLU	C-N-CA	-7.08	111.11	122.23
50	1s	43	GLU	OE1-CD-OE2	-7.07	105.94	122.90
50	1s	42	PRO	CA-C-O	-7.04	109.70	118.99
11	2P	26	GLY	N-CA-C	-6.94	105.31	115.30
18	1W	10	VAL	CA-C-N	-6.67	111.37	122.17
18	1W	10	VAL	C-N-CA	-6.67	111.37	122.17
18	1W	11	ARG	NH1-CZ-NH2	6.59	127.87	119.30
50	1s	43	GLU	CG-CD-OE2	6.46	133.26	118.40
3	2D	274	ARG	CB-CG-CD	-6.45	96.48	111.30
26	14	65	ASP	N-CA-C	-6.06	106.54	112.97
3	2D	275	LYS	N-CA-C	5.98	120.29	107.67
15	2T	16	ARG	NE-CZ-NH2	5.94	124.55	119.20
21	2Z	160	GLY	N-CA-C	-5.89	107.62	115.40
15	1T	73	GLU	CA-C-N	-5.76	111.78	121.75
15	1T	73	GLU	C-N-CA	-5.76	111.78	121.75
15	2T	16	ARG	NE-CZ-NH1	-5.66	115.84	121.50
50	1s	40	ILE	CA-C-N	-5.55	113.86	121.68
50	1s	40	ILE	C-N-CA	-5.55	113.86	121.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2D	275	LYS	CB-CA-C	-5.49	103.98	111.95
35	1d	18	LYS	CD-CE-NZ	-5.46	94.42	111.90
15	2T	15	VAL	CA-C-N	-5.17	113.79	123.05
15	2T	15	VAL	C-N-CA	-5.17	113.79	123.05
7	2H	81	GLU	CA-C-N	-5.14	113.53	121.45
7	2H	81	GLU	C-N-CA	-5.14	113.53	121.45
18	1W	11	ARG	CA-C-N	5.13	128.83	121.96
18	1W	11	ARG	C-N-CA	5.13	128.83	121.96
3	2D	99	ASP	N-CA-C	-5.13	106.86	113.01
18	1W	11	ARG	CG-CD-NE	5.11	123.24	112.00

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	14	67	TYR	Peptide
33	1b	124	SER	Peptide
50	1s	42	PRO	Peptide
50	1s	43	GLU	Sidechain
26	24	59	PHE	Peptide
3	2D	275	LYS	Peptide
42	2k	116	HIS	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61868	0	31189	3056	0
1	2A	61758	0	31145	3530	2
2	1B	2572	0	1305	94	0
2	2B	2573	0	1306	139	0
3	1D	2131	0	2206	286	0
3	2D	2136	0	2218	268	0
4	1E	1559	0	1618	220	0
4	2E	1559	0	1618	247	0
5	1F	1584	0	1625	194	0
5	2F	1580	0	1618	196	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	1G	1426	0	1445	228	0
6	2G	1424	0	1441	272	0
7	1H	1330	0	1407	84	0
7	2H	1324	0	1402	154	0
8	1I	1094	0	1127	118	1
8	2I	1080	0	1103	110	1
9	1N	1121	0	1194	109	0
9	2N	1117	0	1184	151	0
10	1O	933	0	996	119	0
10	2O	933	0	996	111	0
11	1P	1135	0	1211	131	0
11	2P	1135	0	1212	144	0
12	1Q	1122	0	1178	134	0
12	2Q	1122	0	1179	146	0
13	1R	968	0	1032	111	0
13	2R	968	0	1033	147	0
14	1S	877	0	938	82	0
14	2S	870	0	923	126	0
15	1T	1091	0	1151	114	0
15	2T	1083	0	1136	127	0
16	1U	959	0	1019	116	0
16	2U	959	0	1019	115	0
17	1V	775	0	841	78	0
17	2V	771	0	830	112	0
18	1W	886	0	940	126	0
18	2W	886	0	939	122	0
19	1X	750	0	814	65	0
19	2X	750	0	814	86	0
20	1Y	810	0	892	79	0
20	2Y	810	0	887	95	0
21	1Z	1587	0	1598	171	0
21	2Z	1557	0	1564	217	0
22	10	608	0	622	51	0
22	20	608	0	622	75	0
23	11	754	0	823	52	0
23	21	759	0	837	68	0
24	12	588	0	643	43	0
24	22	592	0	654	69	0
25	13	469	0	518	43	0
25	23	464	0	514	65	0
26	14	546	0	526	109	0
26	24	536	0	518	80	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	15	459	0	476	56	0
27	25	455	0	465	53	0
28	16	453	0	473	44	0
28	26	449	0	469	40	0
29	17	418	0	467	40	0
29	27	418	0	467	37	0
30	18	517	0	582	81	0
30	28	517	0	581	70	0
31	19	307	0	335	23	0
31	29	307	0	335	50	0
32	1a	32246	0	16289	2121	1
32	2a	32331	0	16338	2083	3
33	1b	1842	0	1862	284	0
33	2b	1825	0	1828	280	0
34	1c	1558	0	1557	189	0
34	2c	1542	0	1517	201	0
35	1d	1665	0	1687	273	0
35	2d	1668	0	1702	206	0
36	1e	1133	0	1191	153	0
36	2e	1133	0	1191	151	0
37	1f	814	0	808	122	0
37	2f	816	0	808	137	0
38	1g	1235	0	1249	183	0
38	2g	1229	0	1238	156	0
39	1h	1098	0	1143	148	0
39	2h	1088	0	1126	179	0
40	1i	986	0	990	185	0
40	2i	966	0	953	175	0
41	1j	719	0	672	127	0
41	2j	710	0	661	144	0
42	1k	834	0	838	88	0
42	2k	833	0	836	123	0
43	1l	932	0	978	110	0
43	2l	932	0	980	122	0
44	1m	914	0	954	169	0
44	2m	895	0	920	191	0
45	1n	492	0	533	122	0
45	2n	492	0	529	69	0
46	1o	728	0	760	78	0
46	2o	728	0	760	90	0
47	1p	681	0	697	116	0
47	2p	677	0	686	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	1q	823	0	891	116	0
48	2q	823	0	891	115	0
49	1r	555	0	618	84	0
49	2r	555	0	618	103	0
50	1s	648	0	658	151	0
50	2s	645	0	635	122	0
51	1t	732	0	809	101	0
51	2t	733	0	795	77	0
52	1u	199	0	208	51	0
52	2u	199	0	208	47	0
53	10	6	0	0	0	0
53	11	3	0	0	0	0
53	13	1	0	0	0	0
53	15	1	0	0	0	0
53	17	3	0	0	0	0
53	18	3	0	0	0	0
53	19	2	0	0	0	0
53	1A	837	0	0	0	0
53	1B	24	0	0	0	0
53	1D	15	0	0	0	0
53	1E	9	0	0	0	0
53	1F	9	0	0	0	0
53	1G	3	0	0	0	0
53	1H	3	0	0	0	0
53	1N	4	0	0	0	0
53	1O	1	0	0	0	0
53	1P	3	0	0	0	0
53	1Q	3	0	0	0	0
53	1R	3	0	0	0	0
53	1S	1	0	0	0	0
53	1T	3	0	0	0	0
53	1U	1	0	0	0	0
53	1V	3	0	0	0	0
53	1W	2	0	0	0	0
53	1X	1	0	0	0	0
53	1Y	1	0	0	0	0
53	1Z	2	0	0	0	0
53	1a	203	0	0	0	0
53	1b	1	0	0	0	0
53	1d	2	0	0	0	0
53	1e	1	0	0	0	0
53	1f	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
53	1h	1	0	0	0	0
53	1l	2	0	0	0	0
53	1m	1	0	0	0	0
53	1o	1	0	0	0	0
53	1s	1	0	0	0	0
53	1t	1	0	0	0	0
53	20	1	0	0	0	0
53	21	1	0	0	0	0
53	25	1	0	0	0	0
53	27	1	0	0	0	0
53	28	4	0	0	0	0
53	2A	561	0	0	0	0
53	2B	9	0	0	0	0
53	2D	7	0	0	0	0
53	2E	5	0	0	0	0
53	2F	4	0	0	0	0
53	2G	1	0	0	0	0
53	2I	2	0	0	0	0
53	2O	2	0	0	0	0
53	2P	3	0	0	0	0
53	2Q	1	0	0	0	0
53	2R	2	0	0	0	0
53	2T	3	0	0	0	0
53	2U	2	0	0	0	0
53	2V	1	0	0	0	0
53	2W	2	0	0	0	0
53	2X	1	0	0	0	0
53	2Y	1	0	0	0	0
53	2Z	1	0	0	0	0
53	2a	144	0	0	0	0
53	2e	1	0	0	0	0
53	2f	2	0	0	0	0
53	2h	1	0	0	0	0
53	2l	2	0	0	0	0
53	2n	1	0	0	0	0
53	2r	2	0	0	0	0
53	2t	1	0	0	0	0
54	1A	12	0	12	2	0
54	1B	12	0	12	1	0
55	18	8	0	14	8	0
55	1A	8	0	14	2	0
55	1T	8	0	14	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	1a	8	0	14	12	0
55	2A	16	0	27	3	0
55	2B	8	0	14	1	0
56	1A	44	44	0	1	0
56	2A	44	44	0	10	0
57	15	1	0	0	0	0
57	16	1	0	0	0	0
57	19	1	0	0	0	0
57	1Y	1	0	0	0	0
57	25	1	0	0	0	0
57	26	1	0	0	0	0
57	29	1	0	0	0	0
57	2Y	1	0	0	0	0
57	2n	1	0	0	0	0
58	1d	8	0	0	3	0
58	2d	8	0	0	4	0
59	10	16	0	0	6	0
59	11	13	0	0	1	0
59	12	5	0	0	5	0
59	13	8	0	0	5	0
59	15	6	0	0	3	0
59	16	5	0	0	0	0
59	17	3	0	0	0	0
59	18	18	0	0	9	0
59	19	9	0	0	2	0
59	1A	1757	0	0	580	1
59	1B	40	0	0	13	0
59	1D	49	0	0	24	0
59	1E	31	0	0	14	0
59	1F	32	0	0	16	0
59	1G	6	0	0	3	0
59	1H	10	0	0	2	0
59	1I	2	0	0	0	0
59	1N	34	0	0	13	0
59	1O	10	0	0	6	0
59	1P	28	0	0	12	0
59	1Q	19	0	0	12	0
59	1R	18	0	0	14	0
59	1S	3	0	0	4	0
59	1T	14	0	0	3	0
59	1U	24	0	0	9	0
59	1V	33	0	0	19	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	1W	21	0	0	16	0
59	1X	5	0	0	1	0
59	1Y	7	0	0	4	0
59	1Z	6	0	0	5	0
59	1a	235	0	0	86	0
59	1c	1	0	0	0	0
59	1d	4	0	0	4	0
59	1e	1	0	0	1	0
59	1h	2	0	0	3	0
59	1i	1	0	0	0	0
59	1l	2	0	0	0	0
59	1m	1	0	0	0	0
59	1o	2	0	0	0	0
59	1q	1	0	0	0	0
59	20	5	0	0	2	0
59	21	4	0	0	2	0
59	22	1	0	0	2	0
59	23	2	0	0	0	0
59	25	1	0	0	1	0
59	26	2	0	0	3	0
59	27	5	0	0	2	0
59	28	5	0	0	2	0
59	2A	859	0	0	367	0
59	2B	5	0	0	5	0
59	2D	12	0	0	5	0
59	2E	11	0	0	9	0
59	2F	6	0	0	5	0
59	2G	4	0	0	4	0
59	2I	1	0	0	1	0
59	2O	6	0	0	4	0
59	2P	7	0	0	6	0
59	2Q	5	0	0	1	0
59	2R	5	0	0	4	0
59	2S	1	0	0	1	0
59	2T	4	0	0	0	0
59	2U	5	0	0	2	0
59	2V	3	0	0	1	0
59	2W	4	0	0	2	0
59	2X	5	0	0	2	0
59	2Y	2	0	0	1	0
59	2a	113	0	0	49	0
59	2f	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	2o	1	0	0	0	0
59	2q	1	0	0	1	0
All	All	290545	88	192953	20570	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 44.

All (20570) 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)
34:2c:127:ARG:CG	34:2c:127:ARG:CD	1.75	1.55
3:2D:275:LYS:CE	3:2D:275:LYS:NZ	1.70	1.51
1:2A:2612:C:OP1	56:2A:3553:FSD:CAC	1.86	1.24
1:1A:1109:C:H3'	1:1A:1110:U:H5"	1.23	1.19
36:1e:11:ILE:HB	36:1e:31:LEU:HD12	1.23	1.17
8:2I:123:LEU:HD12	8:2I:144:VAL:HG12	1.19	1.16
8:1I:9:LEU:HD23	8:1I:12:LEU:HD13	1.25	1.16
7:2H:23:ARG:HG2	7:2H:36:PRO:HA	1.27	1.16
40:2i:16:ARG:HB2	40:2i:64:THR:HG22	1.29	1.14
32:2a:909:C:N4	32:2a:1369:G:H1	1.46	1.14
46:1o:16:ALA:HB1	46:1o:21:ASP:HB3	1.26	1.13
5:2F:40:GLN:HE22	5:2F:182:ASN:HB2	1.13	1.13
1:1A:1127:U:H3	1:1A:1131:A:N6	1.46	1.13
14:1S:78:LEU:HD11	14:1S:109:GLY:HA3	1.28	1.13
21:1Z:33:LEU:HD21	21:1Z:90:VAL:HG21	1.26	1.12
20:1Y:92:ASN:HB2	20:1Y:94:LYS:H	1.12	1.12
2:1B:30:C:H2'	2:1B:31:C:H5'	1.32	1.12
33:1b:185:ILE:HG22	33:1b:199:TYR:HB2	1.32	1.12
4:2E:34:VAL:HG21	4:2E:78:LEU:HD11	1.27	1.12
1:2A:2263:G:N1	56:2A:3553:FSD:OAG	1.84	1.11
32:1a:1268:A:H2'	32:1a:1269:A:H4'	1.26	1.11
2:1B:6:C:H2'	2:1B:7:G:H5"	1.31	1.11
6:2G:113:ARG:HD2	6:2G:140:ILE:HA	1.20	1.11
49:1r:38:GLU:HA	49:1r:41:LYS:HE2	1.31	1.10
19:2X:65:ARG:HB3	19:2X:70:LEU:HD23	1.33	1.10
32:1a:962:C:N4	32:1a:1203:G:H1	1.48	1.10
12:1Q:43:THR:HG22	12:1Q:94:VAL:HG12	1.33	1.09
32:1a:1164:G:H4'	32:1a:1165:A:H5'	1.28	1.09
32:2a:953:A:H4'	32:2a:954:G:H5"	1.32	1.09
1:2A:1941:OMC:HM22	1:2A:1942:G:H5'	1.34	1.09
1:2A:2160:C:N4	1:2A:2173:G:H1	1.48	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2263:G:C6	56:2A:3553:FSD:OAG	2.05	1.09
4:2E:11:MET:HG2	4:2E:24:THR:HG22	1.30	1.09
1:2A:2278:A:H5"	1:2A:2279:A:H5'	1.32	1.09
47:2p:39:TYR:HB2	47:2p:49:LEU:HD13	1.31	1.09
1:2A:1101:G:H5"	1:2A:1102:A:H5"	1.31	1.09
32:1a:485:C:OP1	43:1l:117:ARG:NH2	1.86	1.09
6:2G:43:LEU:HD23	6:2G:53:LEU:HD12	1.35	1.09
44:2m:4:ILE:HD13	44:2m:19:LEU:HD11	1.32	1.07
10:2O:115:VAL:HG13	10:2O:121:VAL:HG21	1.36	1.07
44:2m:52:GLU:HG2	44:2m:55:ARG:HH21	1.19	1.07
1:1A:2648:U:H5"	4:1E:82:ARG:HH12	1.15	1.06
5:1F:51:THR:HB	5:1F:88:VAL:HG11	1.36	1.06
32:1a:1330:U:H4'	40:1i:120:ARG:HD2	1.34	1.06
49:1r:45:SER:HB3	49:1r:51:LEU:HD21	1.36	1.06
3:2D:276:LYS:NZ	32:2a:759:G:OP2	1.88	1.06
31:29:25:VAL:HB	31:29:34:GLN:HB2	1.34	1.06
40:1i:50:LEU:HD13	40:1i:56:LEU:HA	1.36	1.06
1:2A:2152:G:H5"	1:2A:2153:U:H5'	1.35	1.06
3:1D:78:LYS:HD3	3:1D:114:GLY:HA2	1.37	1.06
47:2p:20:VAL:HG21	47:2p:32:TYR:HD2	1.19	1.05
32:1a:261:G:H2'	32:1a:262:G:H5"	1.39	1.05
32:1a:953:A:H4'	32:1a:954:G:H5"	1.39	1.05
48:1q:6:LEU:HD23	48:1q:23:VAL:HG11	1.35	1.05
4:2E:52:LEU:HB3	4:2E:76:ARG:HD3	1.39	1.05
6:1G:122:PRO:HG3	6:1G:180:PHE:HB3	1.38	1.05
18:1W:38:TYR:HE2	27:15:41:PRO:HD3	1.16	1.05
23:21:51:VAL:HG11	23:21:74:VAL:HG21	1.35	1.04
17:1V:55:ALA:HA	17:1V:101:GLY:HA2	1.38	1.04
32:1a:201:C:H2'	32:1a:202:A:H5"	1.39	1.04
1:1A:1105:U:H4'	1:1A:1106:U:H5'	1.40	1.04
12:2Q:36:ALA:HB2	12:2Q:103:MET:HE3	1.35	1.04
32:2a:1147:G:H1	32:2a:1154:C:N4	1.54	1.04
32:1a:1095:C:H1'	34:1c:179:ARG:HD3	1.39	1.03
38:1g:103:TRP:HA	38:1g:106:GLN:HB3	1.36	1.03
14:2S:10:ARG:HA	14:2S:13:ARG:HE	0.92	1.03
32:2a:982:G:H2'	32:2a:983:A:H4'	1.34	1.03
44:2m:15:VAL:HG11	44:2m:48:LEU:HD21	1.37	1.03
1:1A:2158:C:N4	1:1A:2175:G:H1	1.55	1.03
5:1F:192:LEU:HD21	5:1F:194:MET:HE3	1.36	1.03
21:1Z:152:ALA:HA	21:1Z:155:LEU:HD13	1.38	1.03
39:1h:20:TYR:HA	39:1h:65:TYR:CE2	1.94	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:2f:37:VAL:HA	37:2f:65:VAL:HG12	1.39	1.03
18:1W:38:TYR:CE2	27:15:41:PRO:HD3	1.93	1.03
27:15:45:VAL:HG11	27:15:58:LEU:HD13	1.35	1.03
33:1b:208:ILE:HG13	33:1b:209:ARG:H	1.16	1.03
13:2R:29:LEU:HB3	13:2R:75:LEU:HD21	1.39	1.03
44:1m:3:ARG:HG3	44:1m:4:ILE:HD12	1.36	1.03
1:2A:2302:U:OP1	1:2A:2391:C:O2'	1.75	1.03
6:2G:94:LEU:HD22	6:2G:98:ARG:HB3	1.41	1.03
38:2g:79:ARG:HA	38:2g:84:ASN:HA	1.37	1.03
1:1A:10:G:H2'	1:1A:11:U:H5"	1.41	1.02
36:1e:84:PHE:HB2	36:1e:134:ALA:HB2	1.41	1.02
28:26:35:GLU:HG2	28:26:50:ARG:HG3	1.40	1.02
36:2e:10:MET:HE2	36:2e:55:VAL:HG11	1.36	1.02
12:1Q:75:THR:HG21	12:1Q:87:LYS:HE2	1.36	1.02
11:2P:63:PRO:HB2	30:28:30:ARG:HH21	1.24	1.02
1:2A:1828:U:H5	3:2D:274:ARG:NH1	1.58	1.02
47:2p:20:VAL:HG21	47:2p:32:TYR:CD2	1.94	1.02
3:1D:9:TYR:HE1	3:1D:13:ARG:HG3	1.24	1.02
41:2j:62:HIS:HB3	45:2n:59:ALA:HB3	1.41	1.02
1:1A:720:G:H1'	5:1F:74:ARG:HD3	1.39	1.02
1:2A:2149:C:H3'	1:2A:2150:C:H5"	1.36	1.02
6:2G:11:TYR:HA	6:2G:15:VAL:HB	1.38	1.02
12:1Q:42:ILE:HD12	12:1Q:97:VAL:HG21	1.39	1.01
1:2A:2613:A:H1'	1:2A:2614:G:H5"	1.40	1.01
18:2W:86:LEU:HD22	18:2W:96:ILE:HD11	1.39	1.01
35:2d:98:GLU:HA	35:2d:103:ASN:HD22	1.21	1.01
11:1P:100:LEU:HD12	11:1P:112:LEU:HD11	1.42	1.01
10:1O:48:PRO:HB3	32:1a:1405:G:H5"	1.37	1.01
36:2e:24:ARG:HG3	36:2e:26:PHE:HE1	1.19	1.01
3:2D:125:ILE:HB	37:2f:81:ILE:HD11	1.41	1.01
24:12:50:ILE:O	59:12:101:HOH:O	1.79	1.01
1:2A:1102:A:O2'	1:2A:1103:G:O5'	1.77	1.01
1:2A:2131:G:H1	1:2A:2200:C:H42	1.02	1.01
5:2F:157:VAL:HB	5:2F:194:MET:HG2	1.39	1.01
14:2S:10:ARG:HA	14:2S:13:ARG:NE	1.76	1.01
8:1I:31:LEU:HD21	8:1I:38:LEU:HD13	1.41	1.00
32:2a:402:G:H4'	35:2d:5:ILE:HD11	1.39	1.00
4:1E:14:ILE:HB	15:1T:14:TYR:CE2	1.96	1.00
44:1m:78:ILE:HG22	44:1m:82:MET:HE2	1.42	1.00
6:2G:60:LEU:HD23	6:2G:68:PRO:HG3	1.41	1.00
1:1A:1150:U:H2'	1:1A:1151:G:C8	1.95	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2799:C:H1'	4:2E:62:PRO:HG3	1.43	1.00
32:2a:1043:C:H5'	45:2n:45:ARG:HH12	1.24	1.00
3:1D:218:ARG:HB3	3:1D:219:PRO:HD2	1.42	1.00
44:2m:34:LEU:HD13	44:2m:41:PRO:HB3	1.42	1.00
1:1A:2148:G:H1	1:1A:2182:C:H42	1.04	1.00
14:1S:53:SER:HA	14:1S:58:LEU:HD12	1.44	1.00
32:1a:1145:C:N4	32:1a:1156:G:H1	1.60	1.00
38:1g:79:ARG:HA	38:1g:84:ASN:HA	1.42	1.00
1:2A:2004:C:H2'	1:2A:2005:G:H5"	1.44	1.00
6:1G:41:GLN:HB3	6:1G:43:LEU:HD13	1.40	0.99
30:18:15:LYS:HB2	55:18:104:MPD:H31	1.44	0.99
45:1n:14:PRO:HG3	45:1n:20:ALA:HB2	1.42	0.99
21:2Z:55:HIS:HE1	21:2Z:135:GLU:HG2	1.27	0.99
6:1G:46:ALA:HB1	6:1G:51:ARG:HA	1.40	0.99
1:2A:1121:C:H1'	1:2A:1122:A:H5'	1.39	0.99
32:2a:1268:A:H2'	32:2a:1269:A:H4'	1.44	0.99
32:1a:1169:G:H5'	40:1i:113:LYS:HE3	1.44	0.99
1:2A:1872:G:O2'	3:2D:253:GLN:NE2	1.96	0.99
34:2c:152:ILE:HD11	34:2c:199:LYS:HE3	1.45	0.99
1:1A:2218:U:O2'	1:1A:2219:A:O5'	1.79	0.99
33:1b:200:ILE:HG22	33:1b:202:PRO:HD3	1.40	0.98
26:14:56:VAL:HB	26:14:60:GLN:HG3	1.41	0.98
26:14:62:ARG:HD2	26:14:65:ASP:HB2	1.44	0.98
1:2A:2131:G:H1	1:2A:2200:C:N4	1.61	0.98
34:2c:71:ALA:HB2	34:2c:106:VAL:HB	1.44	0.98
32:1a:1004:U:O2	32:1a:1019:G:O6	1.81	0.98
36:1e:143:ARG:NH1	39:1h:77:GLU:OE2	1.96	0.98
35:2d:68:TYR:CE2	35:2d:97:LEU:HB3	1.97	0.98
32:2a:1115:C:N4	32:2a:1125:G:H1	1.61	0.98
32:2a:978:U:H3	32:2a:1024:A:H61	1.07	0.98
40:2i:42:ARG:NH2	40:2i:71:SER:HG	1.62	0.98
1:1A:924:A:H2'	1:1A:925:G:H5'	1.44	0.98
32:2a:981:G:H1	32:2a:1021:C:N4	1.60	0.98
1:2A:592:G:O6	59:2A:3609:HOH:O	1.82	0.98
21:2Z:8:TYR:HB2	21:2Z:38:TYR:HE1	1.28	0.98
32:2a:1057:G:H1	32:2a:1066:U:H3	1.10	0.98
9:1N:62:VAL:HG22	9:1N:66:LYS:HD2	1.45	0.97
32:1a:933:U:H3	32:1a:1207:A:N6	1.62	0.97
1:1A:63:C:O2	1:1A:481:C:N4	1.97	0.97
30:18:14:VAL:HG21	30:18:22:VAL:HG13	1.46	0.97
1:2A:555:C:H4'	1:2A:556:A:H5"	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:48:A:OP2	14:2S:30:ARG:NH2	1.97	0.97
32:2a:543:A:H4'	32:2a:544:U:H3'	1.43	0.97
37:1f:42:GLU:OE2	37:1f:59:TYR:OH	1.82	0.97
14:2S:49:VAL:HG12	14:2S:73:LEU:HD12	1.42	0.97
44:2m:15:VAL:O	44:2m:19:LEU:HB2	1.65	0.97
3:1D:9:TYR:CE1	3:1D:13:ARG:HG3	2.00	0.97
3:1D:108:PRO:HD2	3:1D:111:LEU:HD11	1.46	0.97
32:1a:690:A:H2'	32:1a:691:C:H5'	1.42	0.97
39:1h:51:VAL:HG12	39:1h:52:ASP:H	1.27	0.97
5:2F:155:LEU:HB2	5:2F:189:THR:HG21	1.43	0.97
50:2s:22:LEU:HD11	50:2s:31:ILE:HD11	1.46	0.97
1:1A:1262:C:H2'	1:1A:1263:G:H5'	1.43	0.97
41:2j:64:GLU:OE2	41:2j:66:ARG:NH1	1.97	0.97
38:1g:50:ILE:HG23	38:1g:121:ALA:HB1	1.43	0.97
44:2m:11:ARG:HA	44:2m:45:VAL:HB	1.47	0.97
38:1g:65:ALA:HB1	38:1g:127:ALA:HB3	1.47	0.96
1:1A:1097:C:H42	1:1A:1152:G:H1	1.06	0.96
32:2a:1034:C:N4	32:2a:1189:2MG:HN1	1.61	0.96
1:1A:2712:C:H3'	1:1A:2713:U:H5"	1.47	0.96
5:2F:20:LEU:HD23	5:2F:22:ALA:H	1.29	0.96
32:1a:1050:A:O2'	32:1a:1051:G:OP2	1.83	0.96
51:1t:38:LYS:HA	51:1t:41:ILE:HD12	1.47	0.96
1:2A:1429:A:HO2'	1:2A:1449:C:HO2'	1.03	0.96
17:2V:11:GLN:HG2	17:2V:38:LEU:HD12	1.47	0.96
32:2a:1112:C:H42	32:2a:1126:G:H1	1.09	0.96
1:1A:2121:G:H1	1:1A:2210:U:H3	1.02	0.96
1:1A:1229:C:O2'	59:1A:3921:HOH:O	1.83	0.96
38:1g:18:TYR:HD2	38:1g:59:LEU:HD13	1.29	0.96
32:1a:933:U:H3	32:1a:1207:A:H61	0.96	0.96
40:1i:108:VAL:HG12	40:1i:109:VAL:H	1.31	0.96
44:1m:4:ILE:HD11	44:1m:9:ILE:HG12	1.47	0.96
26:14:61:ARG:HH12	50:1s:41:VAL:HA	1.30	0.95
33:1b:16:HIS:HB3	33:1b:210:SER:HB2	1.45	0.95
23:21:2:SER:HB3	23:21:46:LEU:HD12	1.45	0.95
32:1a:640:C:O2'	46:1o:28:GLN:NE2	1.99	0.95
1:1A:1097:C:H3'	1:1A:1098:C:H5"	1.48	0.95
40:1i:17:VAL:HG21	40:1i:81:ILE:HG22	1.46	0.95
46:2o:55:GLY:HA2	46:2o:58:MET:HE3	1.48	0.95
1:2A:2739:G:O2'	10:2O:70:LYS:NZ	1.99	0.95
34:2c:142:MET:HA	34:2c:146:ALA:HB3	1.48	0.95
38:1g:69:VAL:HG21	38:1g:104:LEU:HD11	1.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2586:C:OP2	59:2A:3611:HOH:O	1.83	0.95
50:2s:77:THR:HG23	50:2s:78:ARG:HG3	1.46	0.95
25:13:8:LEU:HD11	25:13:23:LEU:HD23	1.49	0.95
39:1h:83:ILE:HG13	39:1h:137:VAL:HG22	1.47	0.95
1:2A:1007:U:OP2	59:2A:3610:HOH:O	1.82	0.95
1:2A:1809:U:OP2	1:2A:1814:A:N6	1.98	0.95
46:1o:26:GLU:OE2	46:1o:77:ARG:NE	2.00	0.95
39:2h:86:ILE:HG21	39:2h:133:LEU:HD22	1.48	0.95
1:1A:1039:C:OP1	16:1U:53:ARG:NH2	2.00	0.95
1:2A:1377:G:OP1	59:2A:3612:HOH:O	1.85	0.95
1:2A:1821:A:H5'	3:2D:206:LEU:HD12	1.48	0.95
39:2h:12:ARG:HD2	39:2h:26:VAL:HG12	1.47	0.95
32:1a:1270:A:H4'	52:1u:10:ARG:HH12	1.29	0.94
36:2e:88:LYS:HB3	36:2e:123:LEU:HB2	1.49	0.94
8:1I:77:LEU:HD12	8:1I:104:GLN:HE21	1.31	0.94
12:1Q:63:LYS:HG3	12:1Q:65:PHE:HE1	1.30	0.94
32:1a:691:C:H4'	42:1k:20:TYR:CD2	2.01	0.94
50:1s:20:LEU:HD23	50:1s:23:ASN:HD22	1.31	0.94
9:2N:70:LYS:HE3	9:2N:72:TYR:HE1	1.29	0.94
40:2i:4:TYR:O	40:2i:19:LEU:N	2.01	0.94
40:2i:51:ARG:HA	40:2i:56:LEU:HD11	1.48	0.94
1:1A:798:A:H3'	29:17:1:MET:HE1	1.48	0.94
1:1A:2691:C:H5'	4:1E:189:PRO:HA	1.46	0.94
32:2a:1245:C:H42	32:2a:1254:G:H1	1.15	0.94
1:1A:2739:G:O2'	10:1O:70:LYS:NZ	2.00	0.94
50:1s:36:ARG:HH12	50:1s:75:ALA:HB3	1.32	0.94
1:2A:2657:C:OP2	1:2A:2744:G:O2'	1.85	0.94
38:2g:89:MET:HE1	38:2g:155:ARG:HA	1.47	0.94
42:1k:52:GLY:H	42:1k:55:LYS:HE2	1.29	0.94
9:2N:4:TYR:CE2	16:2U:100:VAL:HG11	2.02	0.94
41:2j:38:ILE:HD11	41:2j:71:LEU:HB3	1.47	0.94
32:1a:962:C:N3	32:1a:1203:G:N2	2.15	0.94
1:2A:1055:A:OP2	59:2A:3614:HOH:O	1.86	0.94
1:2A:2294:C:H2'	1:2A:2295:C:H5'	1.47	0.94
21:2Z:77:ASP:N	21:2Z:82:ARG:O	2.00	0.94
34:2c:24:ALA:HB1	34:2c:29:TYR:HB2	1.47	0.94
35:2d:127:THR:HG23	35:2d:147:ALA:HB3	1.48	0.94
40:2i:17:VAL:HA	40:2i:63:ILE:HG12	1.48	0.94
5:1F:187:VAL:HG12	11:1P:3:LEU:HD12	1.45	0.94
32:1a:1295:U:OP1	50:1s:5:LEU:N	1.99	0.94
1:2A:477:G:OP2	59:2A:3613:HOH:O	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1192:C:H2'	32:2a:1193:U:H5"	1.49	0.94
1:1A:2137:G:OP2	1:1A:2187:G:N2	2.01	0.93
3:1D:80:ALA:HB3	3:1D:94:LEU:HD12	1.50	0.93
48:2q:66:SER:O	48:2q:70:ARG:NH1	2.00	0.93
1:1A:1809:U:OP2	1:1A:1814:A:N6	2.01	0.93
10:1O:107:ARG:HH12	15:1T:36:GLU:HB3	1.34	0.93
26:14:40:HIS:HB3	26:14:43:TYR:HD2	1.31	0.93
37:2f:4:TYR:CE2	37:2f:72:VAL:HG11	2.04	0.93
29:17:34:ARG:HG3	29:17:39:ARG:HG3	1.50	0.93
32:1a:1165:A:H3'	32:1a:1166:G:H5"	1.50	0.93
44:2m:22:ILE:HG21	44:2m:66:LEU:HD13	1.49	0.93
1:1A:296:C:H2'	1:1A:297:G:H8	1.30	0.93
1:1A:1127:U:H3	1:1A:1131:A:H61	1.02	0.93
38:1g:103:TRP:O	38:1g:107:ALA:N	2.00	0.93
41:1j:5:ARG:HD3	41:1j:73:ASP:OD1	1.69	0.93
44:1m:4:ILE:CD1	44:1m:9:ILE:HG12	1.98	0.93
1:1A:2522:U:O2'	4:1E:138:PRO:O	1.87	0.93
4:1E:34:VAL:HG12	4:1E:72:VAL:HG11	1.48	0.93
10:1O:16:ALA:HB2	10:1O:52:VAL:HG21	1.50	0.93
18:1W:11:ARG:HD2	18:1W:11:ARG:C	1.93	0.93
1:2A:1360:C:OP2	59:2A:3612:HOH:O	1.85	0.93
1:1A:1035:A:OP2	59:1A:3926:HOH:O	1.87	0.93
20:2Y:48:ALA:HA	20:2Y:60:PHE:HA	1.50	0.93
32:2a:962:C:N4	32:2a:1203:G:H1	1.65	0.93
1:1A:851:G:OP1	59:1A:3922:HOH:O	1.86	0.93
6:1G:139:LEU:HD23	6:1G:144:ILE:HG22	1.49	0.93
6:2G:68:PRO:HG2	6:2G:90:LEU:HD13	1.50	0.93
22:20:46:LYS:HE3	22:20:78:TYR:HE1	1.33	0.93
32:2a:585:C:H2'	32:2a:586:A:H8	1.32	0.93
1:2A:1698:A:OP1	13:2R:8:ARG:NH1	2.02	0.93
16:2U:105:VAL:HG22	17:2V:45:THR:HG23	1.50	0.93
1:1A:1230:G:OP1	59:1A:3924:HOH:O	1.86	0.93
1:1A:1345:U:H4'	1:1A:1346:A:C5'	1.99	0.93
25:13:8:LEU:HD22	25:13:31:LEU:HD23	1.47	0.93
32:1a:73:C:H42	32:1a:91:G:H1	1.15	0.93
3:2D:76:PRO:HB2	3:2D:116:GLN:HE21	1.31	0.93
38:1g:79:ARG:NH1	38:1g:81:GLY:O	2.02	0.92
1:2A:241:C:OP2	30:28:5:LYS:NZ	1.99	0.92
32:1a:233:C:H4'	48:1q:25:ARG:HH12	1.32	0.92
32:1a:402:G:H4'	35:1d:5:ILE:HD11	1.50	0.92
40:1i:121:ARG:NH1	40:1i:122:ALA:O	2.01	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2824:C:H5'	27:15:29:THR:HG21	1.51	0.92
33:1b:75:LYS:HA	33:1b:78:GLN:HB2	1.51	0.92
1:2A:1691:G:H5"	1:2A:1692:C:H5'	1.49	0.92
15:2T:24:PRO:HA	15:2T:49:VAL:HG23	1.50	0.92
1:1A:2530:U:OP2	59:1A:3925:HOH:O	1.87	0.92
34:1c:114:PRO:HG3	34:1c:185:GLY:HA3	1.49	0.92
3:2D:37:LEU:HB2	3:2D:62:TYR:HB2	1.51	0.92
39:2h:63:LEU:HB3	39:2h:65:TYR:HE1	1.31	0.92
1:2A:1083:C:H42	1:2A:1162:G:H1	1.17	0.92
32:2a:659:A:H1'	42:2k:116:HIS:CD2	2.05	0.92
36:2e:144:THR:H	36:2e:147:ASP:HB2	1.34	0.92
1:1A:2701:C:OP1	13:1R:17:ARG:NH2	2.02	0.92
32:2a:1351:G:H5"	40:2i:112:LYS:HB3	1.49	0.92
21:2Z:48:PHE:CD1	21:2Z:52:SER:HA	2.04	0.92
20:1Y:92:ASN:N	20:1Y:93:GLY:HA2	1.85	0.92
38:1g:111:ARG:HD2	38:1g:123:GLU:HG2	1.51	0.92
51:1t:47:GLY:HA2	51:1t:48:LYS:HB2	1.50	0.92
1:2A:1129:A:N6	1:2A:1131:A:N7	2.17	0.92
9:2N:4:TYR:HE2	16:2U:100:VAL:HG11	1.31	0.92
21:2Z:8:TYR:HB2	21:2Z:38:TYR:CE1	2.04	0.92
32:2a:676:U:OP2	42:2k:26:ASN:ND2	2.01	0.92
40:2i:16:ARG:HH11	40:2i:64:THR:HG21	1.33	0.92
44:1m:15:VAL:HG12	44:1m:45:VAL:HG22	1.51	0.92
1:2A:358:C:H4'	20:2Y:73:ARG:HH11	1.33	0.92
37:2f:2:ARG:HB2	37:2f:4:TYR:HE1	1.34	0.92
1:1A:1512:G:HO2'	1:1A:1592:C:HO2'	0.99	0.91
21:1Z:157:LEU:HD11	21:1Z:163:LEU:HD13	1.52	0.91
21:2Z:119:GLU:OE1	21:2Z:122:ARG:NH1	2.03	0.91
32:2a:18:U:O2'	32:2a:1062:G:O2'	1.86	0.91
38:2g:140:ASP:OD1	38:2g:143:ARG:NH2	2.02	0.91
32:2a:1019:G:H2'	32:2a:1020:C:O4'	1.69	0.91
1:1A:1243:U:OP1	59:1A:3930:HOH:O	1.88	0.91
32:1a:657:G:H5"	37:1f:87:ARG:NH1	1.85	0.91
1:1A:601:G:O2'	1:1A:2040:A:OP1	1.86	0.91
26:14:67:TYR:CD2	50:1s:16:LEU:HD21	2.06	0.91
35:2d:114:ARG:HA	35:2d:117:ALA:HB3	1.51	0.91
47:2p:74:LEU:HD23	47:2p:79:VAL:HG11	1.51	0.91
1:2A:2306:C:OP1	14:2S:6:ALA:HB1	1.71	0.91
32:2a:9:A:H5'	36:2e:101:ILE:HG22	1.51	0.91
1:1A:2123:U:O2	1:1A:2208:G:O6	1.88	0.91
25:13:6:VAL:HG13	25:13:54:VAL:HG11	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:46:ALA:HB2	4:2E:82:ARG:HA	1.53	0.91
32:2a:536:U:H4'	43:2l:87:GLY:HA2	1.52	0.91
1:1A:1941:OMC:HM22	1:1A:1942:G:H5'	1.50	0.91
32:1a:20:C:OP1	36:1e:125:SER:OG	1.88	0.91
32:1a:960:U:H5"	45:1n:6:LEU:HD21	1.53	0.91
37:1f:3:ARG:HG2	37:1f:66:GLU:HB2	1.50	0.91
40:1i:10:ARG:HG2	40:1i:75:ASP:HB2	1.52	0.91
51:1t:40:ALA:HB2	51:1t:55:ILE:HB	1.51	0.91
1:2A:924:A:H2'	1:2A:925:G:H5'	1.53	0.91
1:2A:2263:G:O6	56:2A:3553:FSD:OAG	1.88	0.91
1:2A:2755:C:OP1	31:29:33:LYS:NZ	2.04	0.91
4:2E:101:ARG:HG2	4:2E:169:ASN:HD22	1.34	0.91
25:23:6:VAL:HG13	25:23:54:VAL:HG21	1.53	0.91
32:2a:1386:C:O2	32:2a:1477:A:N6	2.04	0.91
34:2c:182:ILE:HG12	34:2c:203:PHE:HA	1.52	0.91
1:1A:1309:G:OP1	27:15:19:ARG:NH2	2.04	0.91
1:1A:1468:G:H2'	1:1A:1469:G:H8	1.34	0.91
1:1A:2354:C:O2'	1:1A:2384:G:O2'	1.88	0.91
32:1a:388:G:HO2'	32:1a:468:C:HO2'	1.02	0.91
37:2f:50:TYR:CE1	49:2r:77:GLY:HA2	2.06	0.91
35:1d:76:ARG:HD2	35:1d:207:TYR:CE2	2.04	0.91
44:1m:4:ILE:HD13	44:1m:9:ILE:HG23	1.52	0.91
32:2a:1094:A:N6	34:2c:176:HIS:O	2.04	0.91
21:1Z:8:TYR:HB2	21:1Z:38:TYR:HE1	1.34	0.91
26:14:67:TYR:CE2	50:1s:16:LEU:HD11	2.05	0.91
29:17:34:ARG:HD3	29:17:42:LEU:HA	1.51	0.91
32:1a:208:C:H42	32:1a:212:G:H1	1.16	0.91
39:1h:20:TYR:HA	39:1h:65:TYR:HE2	1.27	0.91
1:2A:2730:G:O2'	1:2A:2856:U:OP1	1.87	0.91
24:22:32:LEU:O	24:22:35:LEU:N	2.04	0.91
26:24:67:TYR:HB3	50:2s:16:LEU:HD11	1.52	0.91
32:2a:652:G:HO2'	46:2o:46:HIS:HD1	1.09	0.91
1:1A:1360:C:OP2	59:1A:3923:HOH:O	1.86	0.90
45:1n:26:ARG:NH1	45:1n:43:CYS:SG	2.44	0.90
1:2A:320:C:OP1	20:2Y:87:LYS:NZ	2.04	0.90
5:2F:109:GLY:HA2	5:2F:112:MET:HB2	1.51	0.90
32:2a:1008:C:N3	32:2a:1015:G:O6	2.04	0.90
1:1A:461:C:H2'	1:1A:462:C:H5'	1.53	0.90
12:2Q:37:LEU:HD21	12:2Q:130:LYS:HD2	1.53	0.90
1:1A:2585:G:OP1	59:1A:3927:HOH:O	1.87	0.90
7:1H:83:TYR:HE2	7:1H:138:LYS:HD2	1.37	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:529:C:H5'	35:1d:72:GLU:HB2	1.51	0.90
40:1i:82:ALA:HB1	40:1i:96:LEU:HD13	1.53	0.90
51:1t:19:SER:O	51:1t:23:ARG:N	2.03	0.90
1:2A:81:G:H1	1:2A:99:G:HO2'	0.91	0.90
32:2a:1292:G:H1	32:2a:1309:C:H42	1.16	0.90
36:2e:24:ARG:HG3	36:2e:26:PHE:CE1	2.07	0.90
38:2g:111:ARG:HG2	38:2g:113:GLU:OE1	1.71	0.90
18:1W:86:LEU:HD22	18:1W:96:ILE:HD11	1.54	0.90
22:10:46:LYS:HD2	22:10:78:TYR:CE1	2.05	0.90
26:14:14:ILE:HB	26:14:22:ILE:HB	1.51	0.90
32:1a:403:G:OP1	35:1d:115:ARG:NH2	2.04	0.90
35:1d:32:ALA:O	35:1d:36:ARG:N	2.04	0.90
13:2R:54:LEU:HB3	13:2R:62:ALA:HB1	1.54	0.90
32:2a:741:U:O2'	32:2a:857:C:O2	1.90	0.90
38:2g:50:ILE:HD12	38:2g:61:VAL:HG21	1.49	0.90
32:1a:558:A:HO2'	32:1a:860:C:HO2'	1.09	0.90
50:1s:41:VAL:HG22	50:1s:42:PRO:HD2	1.51	0.90
1:2A:2585:G:OP1	59:2A:3611:HOH:O	1.89	0.90
32:2a:909:C:N3	32:2a:1369:G:N2	2.18	0.90
32:2a:962:C:H42	32:2a:1203:G:H1	0.94	0.90
32:1a:828:U:H2'	32:1a:829:G:H5"	1.53	0.90
41:1j:62:HIS:HB3	45:1n:59:ALA:HB3	1.54	0.90
51:1t:57:ARG:HH12	51:1t:100:ILE:HD12	1.35	0.90
1:2A:1121:C:H4'	1:2A:1122:A:OP1	1.69	0.90
1:1A:477:G:OP2	59:1A:3929:HOH:O	1.88	0.90
1:1A:1390:C:OP2	59:1A:3931:HOH:O	1.89	0.90
35:1d:18:LYS:NZ	35:1d:31:CYS:SG	2.45	0.90
32:2a:1129:A:H3'	32:2a:1130:C:H5"	1.52	0.90
39:2h:92:ARG:HD2	39:2h:132:GLU:OE2	1.72	0.90
43:2l:24:VAL:HB	43:2l:27:LEU:HD13	1.52	0.90
32:1a:434:G:H4'	35:1d:123:HIS:HD2	1.37	0.90
1:2A:2281:G:OP2	59:2A:3616:HOH:O	1.90	0.90
6:2G:48:GLU:HA	6:2G:51:ARG:HE	1.35	0.90
32:2a:1046:C:H3'	32:2a:1047:G:H2'	1.53	0.89
5:1F:158:THR:OG1	5:1F:195:ASP:OD2	1.90	0.89
21:1Z:103:ARG:HD3	21:1Z:136:PHE:CD2	2.06	0.89
1:2A:2160:C:N3	1:2A:2173:G:N2	2.20	0.89
41:2j:35:SER:HB3	41:2j:73:ASP:H	1.37	0.89
32:1a:161:G:H2'	32:1a:162:G:H8	1.38	0.89
50:1s:62:ILE:HA	50:1s:66:MET:HE3	1.52	0.89
1:2A:1828:U:OP2	3:2D:274:ARG:NH2	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:95:LEU:HD11	3:2D:105:ILE:HD13	1.53	0.89
46:2o:87:ILE:HG22	46:2o:88:ARG:H	1.36	0.89
1:1A:2114:G:H1	1:1A:2217:C:H42	1.14	0.89
32:1a:1338:G:H2'	32:1a:1339:A:H8	1.38	0.89
33:1b:51:LEU:HD23	33:1b:201:ILE:HD12	1.53	0.89
1:2A:2150:C:N3	1:2A:2180:G:O6	2.05	0.89
32:2a:1165:A:O2'	32:2a:1166:G:O5'	1.89	0.89
32:2a:1171:C:OP1	41:2j:51:ARG:NH2	2.05	0.89
42:2k:43:SER:HB3	42:2k:68:ALA:HB2	1.54	0.89
1:1A:172:C:O2'	1:1A:205:G:N3	2.05	0.89
1:1A:2443:A:OP2	59:1A:3928:HOH:O	1.87	0.89
34:1c:21:ARG:NH2	34:1c:58:GLU:OE2	2.05	0.89
1:2A:655:A:OP1	11:2P:65:ARG:NH1	2.04	0.89
1:2A:2155:A:N6	1:2A:2177:G:O2'	2.06	0.89
1:1A:492:G:HO2'	1:1A:842:C:HO2'	1.11	0.89
1:1A:1377:G:OP1	59:1A:3923:HOH:O	1.89	0.89
1:2A:1109:C:N4	1:2A:1119:G:O6	2.05	0.89
6:2G:112:PRO:HG3	26:24:43:TYR:HE2	1.37	0.89
17:2V:40:LEU:HB2	17:2V:46:VAL:HG12	1.54	0.89
1:1A:359:C:O2'	20:1Y:35:TYR:OH	1.88	0.89
5:1F:185:ASP:HA	5:1F:188:ARG:HD3	1.55	0.89
6:1G:11:TYR:OH	6:1G:32:PRO:O	1.90	0.89
21:1Z:8:TYR:HB2	21:1Z:38:TYR:CE1	2.08	0.89
32:1a:1255:G:H3'	32:1a:1256:G:H8	1.38	0.89
1:2A:2085:C:O2'	1:2A:2262:OMG:N2	2.06	0.89
21:2Z:4:ARG:HG2	21:2Z:58:VAL:HB	1.55	0.89
32:2a:548:C:O2'	39:2h:91:ARG:NH1	2.06	0.89
40:2i:78:LYS:HD3	40:2i:101:PHE:HD1	1.37	0.89
1:1A:84:C:HO2'	1:1A:101:U:HO2'	1.07	0.89
1:1A:1130:A:O2'	1:1A:1149:C:O2'	1.87	0.89
1:1A:1169:C:O2	31:19:36:GLN:NE2	2.05	0.89
1:1A:1220:G:H4'	1:1A:1221:A:OP1	1.69	0.89
10:1O:77:ILE:HG12	10:1O:79:PHE:HE1	1.37	0.89
1:2A:2388:A:O2'	14:2S:112:PHE:O	1.90	0.89
6:2G:77:ILE:HG21	6:2G:80:PHE:HB2	1.53	0.89
32:2a:657:G:H5"	37:2f:87:ARG:NH1	1.87	0.89
33:2b:71:VAL:HG23	33:2b:164:VAL:HG13	1.55	0.89
1:1A:1267:C:N3	59:1A:4107:HOH:O	2.04	0.89
23:11:3:LYS:HG3	23:11:4:VAL:H	1.38	0.89
1:2A:2816:G:N1	1:2A:2901:G:O6	2.04	0.89
32:2a:1382:C:H4'	32:2a:1383:5MC:H5"	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:2e:78:HIS:HE1	36:2e:143:ARG:H	1.21	0.89
38:2g:113:GLU:HG2	38:2g:118:VAL:HG12	1.52	0.89
43:2l:83:VAL:HG21	43:2l:100:ILE:HG23	1.52	0.89
44:2m:53:VAL:O	44:2m:57:ARG:N	2.05	0.89
2:1B:31:C:O2	2:1B:53:A:N6	2.04	0.88
34:1c:56:ASP:HB2	34:1c:67:THR:HB	1.55	0.88
15:2T:23:ARG:HB2	15:2T:120:ARG:HH12	1.38	0.88
32:2a:1014:G:H2'	32:2a:1015:G:C8	2.08	0.88
36:1e:87:SER:OG	36:1e:125:SER:O	1.91	0.88
1:2A:359:C:O2'	20:2Y:35:TYR:OH	1.89	0.88
1:2A:2612:C:P	56:2A:3553:FSD:CAC	2.61	0.88
6:2G:103:LEU:O	6:2G:107:LEU:N	2.06	0.88
40:2i:42:ARG:NH2	40:2i:71:SER:OG	2.06	0.88
21:1Z:69:THR:HG22	21:1Z:90:VAL:HA	1.54	0.88
1:2A:852:C:O2	1:2A:2455:G:O2'	1.90	0.88
21:2Z:126:VAL:HG11	21:2Z:161:VAL:HG13	1.56	0.88
1:1A:2449:U:O2'	1:1A:2451:C:OP1	1.90	0.88
2:1B:105:A:OP1	21:1Z:72:ARG:NH2	2.06	0.88
3:1D:94:LEU:HD23	3:1D:104:TYR:HE1	1.39	0.88
21:1Z:103:ARG:HD3	21:1Z:136:PHE:HD2	1.37	0.88
34:1c:82:GLU:OE1	34:1c:85:ARG:NH2	2.06	0.88
37:1f:41:GLU:HG2	37:1f:43:LEU:HD11	1.55	0.88
1:2A:867:A:H2'	1:2A:990:G:H5"	1.53	0.88
7:2H:7:LEU:O	7:2H:69:ARG:NE	2.06	0.88
16:2U:112:ARG:HH12	17:2V:47:VAL:HB	1.36	0.88
21:2Z:24:LEU:N	21:2Z:39:VAL:O	2.06	0.88
1:1A:1262:C:H42	1:1A:1276:G:H1	1.20	0.88
46:1o:17:ARG:N	46:1o:21:ASP:OD2	2.07	0.88
2:2B:115:G:O2'	14:2S:50:SER:OG	1.85	0.88
4:2E:15:PHE:CD2	15:2T:81:PRO:HD2	2.08	0.88
43:2l:113:ARG:NH2	43:2l:116:SER:OG	2.06	0.88
44:2m:26:GLY:O	44:2m:30:ALA:N	2.06	0.88
1:1A:661:A:OP1	11:1P:133:SER:OG	1.90	0.88
1:1A:2691:C:H1'	4:1E:187:ALA:HB1	1.54	0.88
2:1B:19:G:H1	2:1B:64:C:H42	1.19	0.88
32:1a:1083:C:OP2	33:1b:96:ARG:HD3	1.74	0.88
32:1a:1145:C:H42	32:1a:1156:G:H1	0.91	0.88
1:2A:1322:G:O2'	13:2R:24:GLN:OE1	1.92	0.88
1:2A:1404:A:H2'	1:2A:1405:A:H5'	1.55	0.88
6:2G:172:LEU:O	6:2G:176:LEU:N	2.06	0.88
32:2a:96:G:O2'	32:2a:146:A:N3	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:957:C:OP1	32:2a:1205:C:N4	2.06	0.88
1:1A:2280:A:OP1	59:1A:3932:HOH:O	1.90	0.88
12:1Q:7:MET:HE2	21:1Z:194:PRO:HB2	1.55	0.88
27:15:57:VAL:HG12	27:15:58:LEU:HD12	1.55	0.88
38:1g:113:GLU:HG3	38:1g:118:VAL:HG12	1.56	0.88
1:2A:430:C:OP1	59:2A:3617:HOH:O	1.91	0.88
32:2a:1147:G:N2	32:2a:1154:C:N3	2.21	0.88
1:1A:624:G:HO2'	1:1A:626:G:HO2'	1.22	0.88
4:1E:8:LYS:O	4:1E:193:GLY:N	2.07	0.88
32:1a:1053:U:OP1	36:1e:25:ARG:NH1	2.07	0.88
35:1d:108:LEU:HD11	35:1d:174:LEU:HD22	1.56	0.88
32:2a:1133:U:H2'	32:2a:1134:A:H5'	1.54	0.88
1:1A:1981:A:HO2'	32:1a:1462:C:HO2'	1.22	0.88
42:1k:61:ALA:HB1	42:1k:94:ALA:HB2	1.54	0.88
12:2Q:141:GLN:NE2	21:2Z:74:VAL:O	2.07	0.88
32:2a:124:G:H4'	32:2a:125:A:H5'	1.55	0.88
32:2a:601:G:H1	32:2a:607:C:H42	1.21	0.88
1:1A:2079:A:N7	59:1A:4151:HOH:O	2.06	0.88
1:1A:2302:U:O2'	1:1A:2385:C:O2	1.92	0.88
6:1G:41:GLN:HB3	6:1G:43:LEU:CD1	2.04	0.88
1:2A:1925:G:OP1	59:2A:3615:HOH:O	1.90	0.88
1:2A:2417:U:N3	11:2P:73:GLY:O	2.07	0.88
32:2a:1478:A:OP1	59:2a:1901:HOH:O	1.92	0.88
42:2k:20:TYR:HB2	42:2k:31:THR:HB	1.55	0.88
1:1A:1754:C:H42	1:1A:1780:G:H1	1.21	0.87
33:1b:12:GLU:O	33:1b:15:VAL:HG12	1.74	0.87
1:2A:375:G:N2	1:2A:455:A:H5"	1.89	0.87
1:2A:2606:G:OP2	59:2A:3618:HOH:O	1.92	0.87
5:2F:129:PHE:HB2	5:2F:132:VAL:HG21	1.56	0.87
21:2Z:76:LEU:HA	21:2Z:83:PRO:HA	1.55	0.87
36:2e:9:LYS:NZ	36:2e:111:GLU:OE1	2.06	0.87
1:1A:903:C:H5'	22:10:69:PHE:CE2	2.09	0.87
1:1A:1150:U:H2'	1:1A:1151:G:H8	1.40	0.87
4:1E:77:ILE:CD1	4:1E:195:LEU:HD22	2.05	0.87
12:1Q:23:GLY:O	12:1Q:101:ARG:NH1	2.08	0.87
32:2a:1362:G:OP1	38:2g:6:ARG:NH2	2.07	0.87
21:1Z:152:ALA:HB1	21:1Z:163:LEU:HD21	1.54	0.87
32:1a:548:C:O2'	39:1h:91:ARG:NH1	2.06	0.87
34:1c:81:GLY:O	34:1c:85:ARG:N	2.08	0.87
1:2A:1417:U:H2'	1:2A:1418:A:H5'	1.53	0.87
10:2O:119:PRO:HB2	15:2T:68:TYR:CE2	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2P:64:LYS:HE3	30:28:12:LYS:HB3	1.56	0.87
1:1A:638:G:OP1	54:1A:3799:ARG:N	2.08	0.87
1:1A:1467:G:N2	1:1A:1543:C:O2	2.06	0.87
1:2A:1120:C:H2'	1:2A:1121:C:H5'	1.56	0.87
32:2a:321:A:OP2	51:2t:70:SER:OG	1.91	0.87
33:2b:8:LYS:HG3	33:2b:9:GLU:H	1.38	0.87
36:2e:152:ARG:HD3	39:2h:42:GLU:O	1.73	0.87
1:1A:1260:G:OP1	16:1U:11:ARG:NH2	2.07	0.87
6:1G:37:VAL:O	6:1G:94:LEU:N	2.07	0.87
12:1Q:2:LEU:HD12	12:1Q:69:PHE:HE1	1.38	0.87
37:1f:89:MET:HE1	49:1r:72:ARG:HG2	1.55	0.87
38:1g:46:ALA:HB1	38:1g:121:ALA:HB2	1.55	0.87
1:2A:2229:U:O2	23:21:52:ARG:NH1	2.07	0.87
27:25:35:GLU:HG3	27:25:51:TYR:HD2	1.40	0.87
32:2a:74:G:H1	32:2a:90:U:H3	1.21	0.87
44:2m:99:ARG:HB2	44:2m:101:GLN:HE22	1.40	0.87
1:1A:554:G:N1	1:1A:2044:G:OP1	2.07	0.87
11:1P:26:GLY:O	59:1P:303:HOH:O	1.93	0.87
40:1i:46:ALA:HA	40:1i:78:LYS:HB2	1.54	0.87
6:2G:145:THR:HG22	6:2G:148:MET:HE3	1.56	0.87
32:1a:101:G:H2'	32:1a:102:G:O4'	1.73	0.87
35:1d:23:GLY:HA3	35:1d:112:VAL:HB	1.56	0.87
50:1s:46:GLY:HA2	50:1s:61:TYR:HE1	1.39	0.87
25:23:8:LEU:HD13	25:23:23:LEU:HD21	1.54	0.87
32:2a:1115:C:H42	32:2a:1125:G:H1	0.87	0.87
34:2c:108:ASN:HD21	34:2c:144:SER:HB3	1.40	0.87
1:1A:205:G:OP2	59:1A:3940:HOH:O	1.92	0.87
1:1A:775:G:O2'	1:1A:809:G:H4'	1.75	0.87
1:1A:1341:G:OP1	1:1A:2720:G:O2'	1.91	0.87
9:1N:14:VAL:HG11	9:1N:138:LEU:HD12	1.57	0.87
16:1U:101:ARG:NH1	59:1U:304:HOH:O	2.07	0.87
32:1a:1166:G:H2'	32:1a:1167:G:H8	1.39	0.87
1:2A:1317:A:H3'	1:2A:1318:U:H5"	1.56	0.87
1:2A:1846:G:O6	3:2D:35:LYS:NZ	2.08	0.87
37:2f:96:PRO:HB2	37:2f:98:LEU:HD11	1.54	0.87
46:2o:57:LEU:O	46:2o:61:GLY:N	2.06	0.87
1:1A:933:A:H4'	1:1A:934:C:OP1	1.72	0.87
1:1A:1715:A:OP2	59:1A:3934:HOH:O	1.92	0.87
1:2A:992:G:OP1	59:2A:3610:HOH:O	1.90	0.87
4:2E:1:MET:N	4:2E:83:ASP:O	2.07	0.87
32:2a:1231:C:H2'	32:2a:1232:A:H5"	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:233:G:O6	30:18:8:LYS:NZ	2.08	0.86
1:1A:455:A:OP2	59:1A:3935:HOH:O	1.92	0.86
1:1A:1108:G:H1	1:1A:1120:C:H42	1.22	0.86
32:2a:1112:C:N4	32:2a:1126:G:H1	1.73	0.86
33:2b:7:VAL:HG12	33:2b:8:LYS:H	1.40	0.86
35:2d:98:GLU:HA	35:2d:103:ASN:ND2	1.89	0.86
43:2l:53:ARG:HD2	43:2l:93:LEU:HD11	1.57	0.86
32:1a:1009:C:H42	32:1a:1014:G:H1	1.22	0.86
34:1c:87:LEU:O	34:1c:91:LEU:HB2	1.73	0.86
40:1i:9:ARG:H	40:1i:79:LEU:HD23	1.39	0.86
2:2B:24:G:O2'	2:2B:56:G:N7	2.09	0.86
8:2I:124:GLY:H	8:2I:144:VAL:HB	1.40	0.86
32:2a:1034:C:H42	32:2a:1189:2MG:HN1	0.89	0.86
32:2a:1291:G:OP1	44:2m:88:ARG:HD3	1.74	0.86
1:1A:2724:A:OP2	59:1A:3936:HOH:O	1.92	0.86
1:1A:2829:A:O2'	1:1A:2830:A:OP1	1.92	0.86
33:1b:84:GLU:OE1	33:1b:87:ARG:NH1	2.08	0.86
45:1n:4:LYS:HA	45:1n:7:ILE:HG12	1.57	0.86
32:2a:1057:G:O2'	32:2a:1084:A:N1	2.08	0.86
39:2h:124:ALA:O	39:2h:128:GLY:N	2.07	0.86
1:1A:598:U:OP1	59:1A:3946:HOH:O	1.94	0.86
1:1A:2768:U:O2'	59:1A:3938:HOH:O	1.92	0.86
2:1B:6:C:C2'	2:1B:7:G:H5"	2.03	0.86
32:1a:611:G:H2'	32:1a:612:G:H8	1.38	0.86
1:2A:2158:C:N3	1:2A:2175:G:O6	2.08	0.86
15:2T:39:ARG:NH2	32:2a:341:C:OP2	2.09	0.86
26:24:18:CYS:SG	26:24:39:CYS:HB3	2.16	0.86
32:2a:130:C:H2'	32:2a:131:C:H5'	1.58	0.86
32:2a:937:A:O2'	32:2a:962:C:O2'	1.94	0.86
32:2a:977:C:N4	32:2a:1025:G:H1	1.72	0.86
1:1A:608:A:N1	1:1A:855:G:O2'	2.09	0.86
1:1A:786:U:OP2	59:1A:3941:HOH:O	1.92	0.86
1:1A:1067:G:OP2	9:1N:65:LYS:NZ	2.07	0.86
1:1A:2733:A:OP1	59:1A:3943:HOH:O	1.93	0.86
4:1E:47:VAL:HG21	4:1E:86:PRO:HD2	1.57	0.86
5:1F:97:TYR:OH	59:1F:401:HOH:O	1.93	0.86
17:1V:72:VAL:HG13	17:1V:85:LYS:HB3	1.55	0.86
32:1a:403:G:H5"	35:1d:115:ARG:HG2	1.57	0.86
1:2A:2151:U:H2'	1:2A:2179:A:H61	1.41	0.86
4:2E:134:ILE:HA	4:2E:137:HIS:HD2	1.38	0.86
11:2P:127:ALA:HB3	11:2P:130:PHE:HE1	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:72:GLU:OE2	35:2d:207:TYR:OH	1.94	0.86
44:2m:81:LEU:HA	44:2m:84:ILE:HG12	1.58	0.86
1:1A:1017:A:OP2	59:1A:3933:HOH:O	1.92	0.86
1:1A:1068:U:OP2	59:1A:3939:HOH:O	1.92	0.86
1:1A:2431:C:H5'	28:16:54:ILE:HD11	1.55	0.86
16:1U:52:ARG:HG3	16:1U:55:ARG:CG	2.05	0.86
32:1a:253:G:H1	32:1a:265:C:H42	1.18	0.86
46:1o:82:ILE:HB	46:1o:87:ILE:HG22	1.58	0.86
48:1q:18:THR:OG1	48:1q:69:LYS:NZ	2.08	0.86
3:2D:245:PRO:HB3	3:2D:253:GLN:HE21	1.39	0.86
35:2d:68:TYR:HE2	35:2d:97:LEU:HB3	1.37	0.86
40:2i:28:VAL:HG22	40:2i:63:ILE:HB	1.57	0.86
1:1A:877:G:OP1	59:1A:3950:HOH:O	1.94	0.86
1:1A:1624:U:H2'	1:1A:1625:A:H5'	1.54	0.86
1:1A:1635:U:OP2	59:1A:3937:HOH:O	1.92	0.86
4:1E:105:THR:OG1	4:1E:199:ARG:NH2	2.08	0.86
26:14:61:ARG:NH1	50:1s:41:VAL:HA	1.89	0.86
38:1g:50:ILE:HD12	38:1g:58:PRO:HB3	1.57	0.86
1:2A:99:G:OP1	24:22:7:ARG:NH2	2.09	0.86
1:2A:2014:U:OP2	59:2A:3626:HOH:O	1.94	0.86
1:2A:2442:U:OP1	59:2A:3625:HOH:O	1.94	0.86
1:2A:2449:U:O2'	1:2A:2451:C:OP1	1.92	0.86
6:2G:171:ALA:O	6:2G:175:LEU:N	2.09	0.86
9:2N:14:VAL:HG11	9:2N:138:LEU:HD12	1.56	0.86
32:2a:608:C:O2'	47:2p:10:GLY:HA2	1.76	0.86
33:1b:151:GLY:HA2	33:1b:154:LEU:HD13	1.57	0.86
32:2a:978:U:H3	32:2a:1024:A:N6	1.73	0.86
47:2p:13:HIS:O	47:2p:42:ARG:NH1	2.09	0.86
10:1O:35:VAL:HG11	10:1O:103:ALA:HB3	1.58	0.86
32:1a:920:G:N2	40:1i:124:GLN:OE1	2.08	0.86
40:1i:9:ARG:HB2	40:1i:104:ARG:HE	1.38	0.86
40:1i:29:ASN:OD1	40:1i:65:VAL:HG12	1.75	0.86
1:2A:1682:C:OP2	59:2A:3624:HOH:O	1.94	0.86
7:1H:3:ARG:HH22	7:1H:65:HIS:HB3	1.39	0.86
1:2A:838:G:O6	59:2A:3621:HOH:O	1.93	0.86
1:2A:903:C:OP2	22:20:77:ARG:NH2	2.07	0.86
1:2A:952:U:O2'	12:2Q:101:ARG:NH2	2.09	0.86
2:2B:7:G:H3'	2:2B:8:U:H5"	1.55	0.86
4:2E:167:VAL:HG22	4:2E:170:LEU:HD11	1.56	0.86
6:2G:106:LEU:HD12	6:2G:110:ALA:HB3	1.56	0.86
7:2H:8:PRO:HB3	7:2H:51:ARG:HG2	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1O:102:VAL:O	59:1O:8101:HOH:O	1.94	0.85
10:1O:107:ARG:NH1	15:1T:36:GLU:HB3	1.89	0.85
15:1T:41:ARG:HH12	32:1a:342:G:H4'	1.38	0.85
30:18:34:TRP:O	59:18:201:HOH:O	1.93	0.85
1:2A:897:U:H5'	25:23:49:LYS:HE2	1.58	0.85
1:2A:1260:G:OP1	16:2U:11:ARG:NH2	2.09	0.85
8:2I:39:ALA:HB1	8:2I:44:LEU:HD11	1.57	0.85
12:2Q:55:VAL:HG21	21:2Z:183:LEU:HD21	1.57	0.85
14:2S:53:SER:O	14:2S:57:LYS:N	2.09	0.85
1:1A:175:G:OP2	59:1A:3952:HOH:O	1.94	0.85
14:1S:20:ARG:NH2	22:10:51:VAL:O	2.08	0.85
40:1i:65:VAL:HG21	40:1i:73:GLN:HB3	1.58	0.85
48:1q:53:LEU:HG	48:1q:82:MET:HE1	1.57	0.85
1:2A:1576:C:O2'	1:2A:1577:C:O5'	1.94	0.85
3:2D:154:LYS:HA	3:2D:157:ARG:HH11	1.40	0.85
17:2V:5:VAL:HG11	17:2V:57:VAL:HG21	1.58	0.85
1:1A:1813:A:OP1	59:1A:3941:HOH:O	1.95	0.85
11:1P:63:PRO:HD3	30:18:27:THR:HG22	1.56	0.85
39:1h:9:MET:HG3	59:1h:3102:HOH:O	1.75	0.85
41:1j:49:VAL:HG23	45:1n:41:ARG:HB2	1.57	0.85
1:2A:478:C:OP1	59:2A:3619:HOH:O	1.92	0.85
1:2A:2486:C:OP2	59:2A:3628:HOH:O	1.94	0.85
1:2A:2694:C:OP1	15:2T:53:ARG:NH2	2.08	0.85
6:2G:113:ARG:HD2	6:2G:140:ILE:CA	2.06	0.85
32:2a:865:G:O6	59:2a:1902:HOH:O	1.95	0.85
1:1A:1139:U:O2'	1:1A:1141:A:N7	2.08	0.85
35:1d:26:CYS:CB	58:1d:501:SF4:S1	2.65	0.85
40:1i:16:ARG:HB2	40:1i:64:THR:HG22	1.59	0.85
33:2b:15:VAL:HB	33:2b:209:ARG:HB3	1.57	0.85
1:1A:558:U:H5'	16:1U:42:ALA:HB1	1.56	0.85
1:1A:826:G:OP1	3:1D:218:ARG:NH1	2.09	0.85
1:1A:864:G:OP2	59:1A:3947:HOH:O	1.94	0.85
1:1A:1812:C:OP1	59:1A:3951:HOH:O	1.94	0.85
1:1A:2037:U:O2'	27:15:7:PRO:O	1.93	0.85
11:1P:36:LYS:O	59:1P:304:HOH:O	1.93	0.85
33:1b:109:SER:O	33:1b:112:VAL:HG22	1.75	0.85
37:1f:37:VAL:HA	37:1f:65:VAL:HG12	1.56	0.85
39:1h:14:ARG:NH1	39:1h:83:ILE:O	2.10	0.85
6:2G:38:VAL:O	59:2G:8101:HOH:O	1.93	0.85
1:1A:1940:A:O2'	32:1a:1495:G:N3	2.09	0.85
1:1A:1998:A:OP2	59:1A:3955:HOH:O	1.95	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:2q:62:SER:OG	48:2q:72:ARG:NH1	2.10	0.85
1:1A:838:G:O6	59:1A:3949:HOH:O	1.94	0.85
1:1A:934:C:O2'	1:1A:935:C:OP1	1.94	0.85
32:1a:1110:G:H1	32:1a:1128:C:N4	1.75	0.85
48:1q:61:GLU:HA	48:1q:71:PHE:CD1	2.11	0.85
1:2A:1052:C:OP1	9:2N:35:ARG:NH1	2.10	0.85
1:2A:2704:A:H2'	1:2A:2705:G:H8	1.39	0.85
12:1Q:25:ASP:OD2	21:1Z:78:LYS:HG2	1.76	0.85
32:1a:1267:A:H1'	32:1a:1268:A:OP2	1.77	0.85
35:1d:4:TYR:O	35:1d:5:ILE:HG22	1.76	0.85
35:1d:18:LYS:HD3	35:1d:33:MET:HB2	1.59	0.85
35:1d:159:ARG:HA	35:1d:162:LEU:HB2	1.57	0.85
37:1f:9:VAL:HB	37:1f:87:ARG:HB2	1.59	0.85
1:2A:1311:G:O2'	1:2A:2033:G:O6	1.95	0.85
1:2A:1467:G:N2	1:2A:1543:C:O2	2.10	0.85
1:2A:2514:2MA:O2'	1:2A:2516:G:OP2	1.94	0.85
4:2E:101:ARG:HG3	4:2E:169:ASN:HA	1.59	0.85
1:1A:2018:G:OP2	59:1A:3942:HOH:O	1.93	0.85
1:1A:2575:A:OP1	1:1A:2659:C:O2'	1.95	0.85
32:1a:1219:C:O2'	32:1a:1282:G:N2	2.09	0.85
32:1a:1385:4OC:HM22	32:1a:1386:C:H5'	1.58	0.85
33:1b:219:VAL:HA	33:1b:222:ILE:HD12	1.59	0.85
1:2A:1034:G:O2'	59:2A:3620:HOH:O	1.93	0.85
17:2V:12:TYR:CD2	17:2V:20:LEU:HD21	2.12	0.85
32:2a:528:G:OP1	35:2d:59:ARG:NH2	2.09	0.85
6:1G:133:LEU:HD11	6:1G:157:ILE:HD12	1.57	0.85
11:1P:4:SER:O	11:1P:7:ARG:NH2	2.09	0.85
32:1a:387:G:H5"	47:1p:8:ARG:HH11	1.41	0.85
34:1c:24:ALA:HB3	34:1c:29:TYR:HB2	1.59	0.85
38:1g:47:CYS:HA	38:1g:50:ILE:HD11	1.59	0.85
41:1j:30:SER:OG	41:1j:81:THR:HG22	1.77	0.85
1:2A:63:C:O2	1:2A:481:C:N4	2.10	0.85
1:2A:1344:G:OP1	59:2A:3627:HOH:O	1.94	0.85
9:2N:62:VAL:CG1	9:2N:66:LYS:HB2	2.06	0.85
32:2a:97:C:OP2	51:2t:14:LYS:NZ	2.10	0.85
32:2a:981:G:H1	32:2a:1021:C:H42	0.86	0.85
1:1A:1649:C:OP1	59:1A:3953:HOH:O	1.95	0.84
44:1m:79:LYS:HA	44:1m:82:MET:HE3	1.59	0.84
1:2A:2054:A:OP1	59:2A:3634:HOH:O	1.95	0.84
12:2Q:8:LYS:HG2	21:2Z:197:ILE:HD12	1.59	0.84
32:2a:117:C:OP1	32:2a:307:C:O2'	1.95	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:187:A:N6	1:1A:2442:U:O2	2.10	0.84
1:1A:797:A:OP1	59:1A:3945:HOH:O	1.93	0.84
1:1A:1087:G:C2'	1:1A:1088:C:H5'	2.06	0.84
1:1A:2035:A:OP1	59:1A:3944:HOH:O	1.93	0.84
1:1A:2148:G:H1	1:1A:2182:C:N4	1.75	0.84
32:1a:523:A:H2'	32:1a:524:G:H8	1.39	0.84
32:1a:1081:C:OP1	33:1b:144:ARG:NH1	2.10	0.84
10:2O:119:PRO:HB2	15:2T:68:TYR:HE2	1.42	0.84
32:2a:969:U:H1'	32:2a:970:U:OP2	1.77	0.84
1:1A:184:A:O2'	1:1A:851:G:O6	1.95	0.84
1:1A:1991:A:OP2	59:1A:3948:HOH:O	1.94	0.84
1:1A:2514:2MA:OP2	59:1A:3956:HOH:O	1.95	0.84
32:1a:1053:U:OP2	36:1e:20:GLN:NE2	2.11	0.84
32:1a:1325:G:H2'	32:1a:1326:C:C6	2.13	0.84
43:1l:56:ALA:HB3	43:1l:100:ILE:HD11	1.58	0.84
1:2A:2086:C:H1'	1:2A:2460:U:H3	1.41	0.84
1:2A:2800:C:O2'	1:2A:2818:A:N3	2.09	0.84
16:2U:111:GLU:O	16:2U:115:ALA:N	2.10	0.84
18:2W:19:LEU:HB3	27:25:25:LEU:HD11	1.59	0.84
21:2Z:55:HIS:CE1	21:2Z:135:GLU:HG2	2.13	0.84
32:2a:1338:G:H2'	32:2a:1339:A:C8	2.13	0.84
38:2g:108:ALA:O	38:2g:119:ARG:HD2	1.76	0.84
49:2r:66:LEU:O	49:2r:69:THR:N	2.10	0.84
50:2s:22:LEU:O	50:2s:26:GLY:N	2.10	0.84
1:1A:1231:G:O6	59:1A:3947:HOH:O	1.94	0.84
1:1A:2162:G:H2'	1:1A:2163:C:H5'	1.58	0.84
6:1G:77:ILE:HD12	6:1G:82:LEU:HD13	1.59	0.84
26:14:67:TYR:HD2	50:1s:16:LEU:HD21	1.41	0.84
32:2a:1327:U:O2	32:2a:1358:A:N6	2.10	0.84
33:2b:84:GLU:OE1	33:2b:87:ARG:NH2	2.09	0.84
1:1A:2288:G:H2'	1:1A:2289:A:H5"	1.55	0.84
5:1F:129:PHE:CE2	5:1F:163:VAL:HG11	2.11	0.84
33:1b:16:HIS:HB3	33:1b:210:SER:CB	2.07	0.84
35:1d:118:ARG:O	35:1d:122:ARG:N	2.08	0.84
2:2B:31:C:O2	2:2B:53:A:N6	2.10	0.84
3:2D:70:TRP:HB3	3:2D:190:TYR:CE2	2.11	0.84
7:2H:35:VAL:CG1	7:2H:71:LEU:HD22	2.06	0.84
8:2I:123:LEU:HD12	8:2I:144:VAL:CG1	2.06	0.84
1:1A:1359:C:OP1	59:1A:3923:HOH:O	1.94	0.84
1:1A:2250:G:OP2	59:1A:3961:HOH:O	1.96	0.84
1:1A:2801:C:O2	1:1A:2902:G:N2	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1277:G:O2'	44:1m:14:ARG:NH1	2.11	0.84
35:1d:119:GLN:HG3	35:1d:123:HIS:CE1	2.13	0.84
1:2A:501:G:N1	1:2A:504:A:OP2	2.09	0.84
1:2A:890:C:H2'	1:2A:891:G:H5'	1.57	0.84
1:2A:902:C:H2'	1:2A:903:C:H6	1.40	0.84
1:2A:1647:U:O4	59:2A:3630:HOH:O	1.95	0.84
32:2a:1341:C:H1'	32:2a:1344:C:H41	1.41	0.84
33:2b:55:PHE:O	33:2b:59:GLU:N	2.10	0.84
34:2c:11:ARG:HB3	34:2c:15:THR:HB	1.57	0.84
41:2j:49:VAL:HG23	45:2n:41:ARG:HB2	1.56	0.84
1:1A:1424:A:O2'	59:1A:3964:HOH:O	1.96	0.84
7:1H:124:GLU:OE2	7:1H:132:ARG:HD2	1.78	0.84
33:1b:35:GLU:HB3	33:1b:40:HIS:HA	1.59	0.84
1:2A:117:U:OP2	59:2A:3631:HOH:O	1.95	0.84
3:2D:2:ALA:N	3:2D:200:ASP:OD2	2.10	0.84
15:2T:26:ASP:OD1	15:2T:120:ARG:NH2	2.11	0.84
32:2a:96:G:OP1	51:2t:10:LEU:HD11	1.77	0.84
32:2a:111:G:OP2	59:2a:1903:HOH:O	1.96	0.84
33:2b:74:LYS:HD3	33:2b:76:GLN:NE2	1.92	0.84
39:2h:7:ALA:O	39:2h:11:THR:N	2.11	0.84
1:1A:952:U:O2'	12:1Q:101:ARG:NH2	2.11	0.84
1:1A:2586:C:OP2	59:1A:3954:HOH:O	1.95	0.84
5:1F:108:LYS:HE2	5:1F:112:MET:HE3	1.58	0.84
1:2A:2459:A:OP1	59:2A:3609:HOH:O	1.93	0.84
32:1a:117:C:O2'	32:1a:286:C:O2	1.95	0.84
33:1b:82:ARG:NH1	33:1b:92:TYR:OH	2.10	0.84
1:2A:1300:U:O2'	59:2A:3629:HOH:O	1.95	0.84
1:2A:1311:G:O5'	18:2W:15:ARG:NH2	2.11	0.84
4:2E:111:ARG:HA	13:2R:1:MET:SD	2.17	0.84
32:2a:1154:C:H2'	32:2a:1155:G:H8	1.43	0.84
32:2a:1304:C:H4'	32:2a:1305:G:OP1	1.76	0.84
38:2g:113:GLU:HB2	38:2g:119:ARG:HG2	1.60	0.84
1:1A:1230:G:OP2	59:1A:3926:HOH:O	1.94	0.84
13:1R:103:ARG:NH1	13:1R:108:GLY:O	2.10	0.84
17:1V:4:ILE:HG13	59:1V:317:HOH:O	1.77	0.84
32:1a:1356:G:OP2	40:1i:71:SER:OG	1.96	0.84
33:1b:212:GLN:HE22	33:1b:235:SER:HB2	1.41	0.84
35:1d:61:LYS:NZ	35:1d:62:GLN:OE1	2.11	0.84
38:1g:99:LEU:HB3	38:1g:103:TRP:CH2	2.12	0.84
1:2A:1036:C:OP2	59:2A:3633:HOH:O	1.95	0.84
3:2D:184:LYS:HB2	3:2D:269:PHE:HB3	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:2G:173:LEU:HB3	6:2G:178:PHE:CD2	2.13	0.84
14:2S:39:ILE:HD12	14:2S:49:VAL:HB	1.60	0.84
32:2a:558:A:HO2'	32:2a:860:C:HO2'	1.26	0.84
32:2a:977:C:N3	32:2a:1025:G:N2	2.24	0.84
39:2h:27:PRO:HA	39:2h:58:TYR:CD1	2.12	0.84
39:2h:34:GLU:CB	39:2h:118:VAL:HG21	2.08	0.84
41:2j:77:PRO:O	41:2j:81:THR:OG1	1.94	0.84
42:2k:21:ILE:HG12	42:2k:30:VAL:HG22	1.60	0.84
9:1N:62:VAL:CG2	9:1N:66:LYS:HD2	2.08	0.83
30:18:14:VAL:HG22	30:18:15:LYS:H	1.43	0.83
32:1a:1004:U:C2	32:1a:1019:G:O6	2.31	0.83
44:1m:19:LEU:HB3	44:1m:25:ILE:HG21	1.58	0.83
1:2A:226:C:H1'	1:2A:631:A:H1'	1.60	0.83
1:2A:1808:U:OP1	59:2A:3641:HOH:O	1.96	0.83
1:2A:2053:G:OP1	59:2A:3632:HOH:O	1.95	0.83
1:2A:2118:C:N3	1:2A:2213:G:O6	2.10	0.83
1:2A:2643:A:HO2'	1:2A:2820:G:HO2'	1.19	0.83
1:2A:2758:U:H2'	1:2A:2759:G:H5'	1.59	0.83
7:2H:18:GLU:HG2	7:2H:25:LYS:HB2	1.60	0.83
17:2V:74:LYS:HB2	17:2V:83:ARG:HB2	1.61	0.83
19:2X:88:LYS:NZ	19:2X:90:GLU:OE1	2.11	0.83
35:2d:165:MET:SD	35:2d:168:ARG:NH1	2.51	0.83
1:1A:741:G:O6	59:1A:3962:HOH:O	1.96	0.83
1:1A:1308:U:O4	59:1A:3966:HOH:O	1.96	0.83
44:1m:54:VAL:O	44:1m:58:GLU:N	2.10	0.83
1:2A:873:U:OP1	59:2A:3622:HOH:O	1.93	0.83
1:2A:2033:G:OP1	18:2W:11:ARG:NH2	2.11	0.83
1:2A:2123:U:O2	1:2A:2208:G:O6	1.95	0.83
19:2X:11:PRO:HD3	24:22:37:PHE:CD1	2.13	0.83
32:2a:977:C:H42	32:2a:1025:G:H1	1.24	0.83
32:1a:982:G:N2	32:1a:983:A:H1'	1.92	0.83
1:2A:907:A:N3	2:2B:79:C:O2'	2.10	0.83
32:2a:18:U:H1'	32:2a:1063:A:H1'	1.60	0.83
32:2a:982:G:H3'	32:2a:982:G:N3	1.91	0.83
34:2c:77:ILE:O	34:2c:84:ILE:N	2.10	0.83
1:1A:1628:C:O2'	1:1A:1631:A:N3	2.11	0.83
1:2A:1042:G:OP2	16:2U:58:ARG:NH1	2.12	0.83
1:2A:1468:G:OP1	1:2A:1537:G:O2'	1.96	0.83
5:2F:186:ILE:HG23	5:2F:192:LEU:HD12	1.60	0.83
11:2P:19:VAL:HB	11:2P:31:ALA:HB1	1.61	0.83
3:1D:147:LEU:O	59:1D:401:HOH:O	1.96	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1Q:63:LYS:HG3	12:1Q:65:PHE:CE1	2.12	0.83
17:1V:40:LEU:HB2	17:1V:46:VAL:CG1	2.09	0.83
32:1a:626:A:N3	39:1h:113:SER:OG	2.12	0.83
42:1k:34:ASP:OD1	42:1k:38:ASN:N	2.10	0.83
47:1p:49:LEU:HD13	47:1p:73:LEU:HD12	1.60	0.83
1:2A:2084:C:N4	1:2A:2512:C:O2	2.11	0.83
1:2A:2584:C:OP1	59:2A:3611:HOH:O	1.95	0.83
1:2A:2690:A:OP2	4:2E:160:TYR:OH	1.95	0.83
2:2B:83:G:H2'	2:2B:84:C:H5"	1.59	0.83
39:2h:17:THR:HA	39:2h:65:TYR:OH	1.77	0.83
39:2h:41:ARG:NH2	39:2h:123:GLU:OE2	2.12	0.83
1:1A:635:G:N2	1:1A:639:A:O2'	2.11	0.83
1:1A:800:C:OP2	59:1A:3959:HOH:O	1.95	0.83
1:1A:2063:A:OP1	59:1A:3974:HOH:O	1.97	0.83
1:1A:2133:G:O6	1:1A:2190:A:N6	2.11	0.83
41:1j:78:ASN:O	41:1j:81:THR:OG1	1.95	0.83
1:2A:866:A:N3	1:2A:987:U:O2'	2.10	0.83
3:2D:164:GLN:OE1	3:2D:176:ARG:NH2	2.11	0.83
6:2G:102:PHE:O	6:2G:106:LEU:N	2.10	0.83
32:2a:69:G:H1	32:2a:95:A:H61	1.24	0.83
41:2j:16:LEU:HD13	41:2j:70:ARG:HG2	1.61	0.83
1:1A:541:C:OP1	27:15:16:ARG:NH2	2.12	0.83
1:1A:856:U:O4	59:1A:3963:HOH:O	1.96	0.83
1:1A:2261:G:O2'	1:1A:2507:C:OP1	1.97	0.83
1:1A:2514:2MA:O2'	1:1A:2516:G:OP2	1.96	0.83
6:1G:28:VAL:O	6:1G:31:VAL:HG22	1.77	0.83
32:1a:201:C:C2'	32:1a:202:A:H5"	2.08	0.83
32:1a:796:C:O2	59:1a:2003:HOH:O	1.96	0.83
32:1a:1309:C:OP1	52:1u:20:LYS:N	2.09	0.83
40:1i:114:TYR:HE2	41:1j:60:ARG:H	1.25	0.83
44:1m:3:ARG:HG3	44:1m:4:ILE:CD1	2.09	0.83
1:2A:551:C:OP1	59:2A:3639:HOH:O	1.96	0.83
1:2A:1394:A:OP1	59:2A:3637:HOH:O	1.95	0.83
1:2A:1704:C:OP1	59:2E:401:HOH:O	1.97	0.83
3:2D:26:LYS:NZ	3:2D:28:GLU:O	2.12	0.83
4:2E:140:SER:O	59:2E:403:HOH:O	1.97	0.83
33:2b:57:PHE:HE2	33:2b:185:ILE:HD11	1.40	0.83
37:2f:50:TYR:HE2	49:2r:81:PHE:CE2	1.96	0.83
1:1A:2006:G:OP2	59:1A:3960:HOH:O	1.96	0.83
1:1A:2158:C:N3	1:1A:2175:G:N2	2.27	0.83
1:1A:2253:G:OP1	59:1A:3973:HOH:O	1.97	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1D:242:ARG:N	3:1D:242:ARG:HD2	1.92	0.83
35:1d:63:LYS:O	35:1d:67:ILE:HG13	1.79	0.83
1:2A:829:A:O2'	1:2A:831:G:OP1	1.96	0.83
1:2A:863:C:OP2	59:2A:3644:HOH:O	1.96	0.83
1:2A:1109:C:H3'	1:2A:1110:U:C5'	2.09	0.83
1:2A:1500:U:H5'	13:2R:63:ARG:NH1	1.93	0.83
32:2a:262:G:O2'	32:2a:263:C:OP2	1.95	0.83
1:1A:1813:A:OP2	59:1A:3951:HOH:O	1.95	0.83
1:1A:1860:C:N4	1:1A:1996:G:O6	2.12	0.83
1:1A:2077:G:OP2	59:1A:3957:HOH:O	1.95	0.83
1:1A:2083:A:H2'	1:1A:2084:C:H5'	1.59	0.83
3:1D:94:LEU:HD23	3:1D:104:TYR:CE1	2.14	0.83
8:1I:77:LEU:HD11	8:1I:100:ALA:HB1	1.60	0.83
15:1T:95:ARG:O	15:1T:96:ARG:HG2	1.78	0.83
26:14:16:CYS:SG	26:14:17:GLY:N	2.51	0.83
32:1a:1165:A:O2'	32:1a:1166:G:OP1	1.97	0.83
1:2A:105:U:H2'	1:2A:106:G:H8	1.42	0.83
1:2A:542:G:H4'	18:2W:18:ARG:NH1	1.93	0.83
1:2A:1410:A:O2'	23:21:11:ARG:NH2	2.11	0.83
5:2F:152:GLU:OE1	5:2F:191:ARG:NH1	2.12	0.83
32:2a:8:G:O2'	36:2e:120:THR:O	1.97	0.83
32:2a:65:G:H4'	32:2a:66:U:H3'	1.57	0.83
40:2i:28:VAL:HA	40:2i:63:ILE:O	1.78	0.83
40:2i:42:ARG:NH1	40:2i:75:ASP:OD2	2.10	0.83
1:1A:2868:G:OP1	59:1A:3970:HOH:O	1.97	0.83
32:1a:251:G:H1'	48:1q:16:GLN:HE21	1.41	0.83
38:1g:16:LEU:CD1	40:1i:42:ARG:HA	2.08	0.83
39:1h:11:THR:HG22	39:1h:15:ASN:HD21	1.42	0.83
1:2A:184:A:O2'	1:2A:851:G:O6	1.97	0.83
1:2A:550:A:OP1	59:2A:3639:HOH:O	1.96	0.83
1:2A:775:G:O2'	1:2A:809:G:H4'	1.78	0.83
1:2A:1044:U:OP2	59:2A:3636:HOH:O	1.97	0.83
1:2A:1198:C:OP2	59:2A:3636:HOH:O	1.95	0.83
1:2A:1652:C:N4	1:2A:1667:G:OP2	2.11	0.83
1:2A:2600:A:OP1	59:2A:3642:HOH:O	1.96	0.83
1:2A:2884:C:O2'	15:2T:2:ASN:OD1	1.96	0.83
3:2D:94:LEU:HD23	3:2D:104:TYR:CE1	2.13	0.83
4:2E:32:PRO:HD2	4:2E:50:GLY:O	1.79	0.83
8:2I:57:ARG:O	8:2I:61:ARG:HG2	1.79	0.83
9:2N:67:LEU:O	9:2N:88:GLU:HG3	1.78	0.83
37:2f:12:PRO:HG3	37:2f:57:GLN:O	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:2p:8:ARG:HB3	47:2p:28:ARG:NH1	1.94	0.83
50:2s:22:LEU:CD1	50:2s:31:ILE:HD11	2.08	0.83
1:1A:1647:U:O4	59:1A:3976:HOH:O	1.97	0.82
1:1A:1710:A:OP2	59:1A:3967:HOH:O	1.96	0.82
1:1A:2054:A:OP1	59:1A:3971:HOH:O	1.97	0.82
13:1R:97:VAL:HG22	13:1R:114:VAL:HG22	1.61	0.82
1:2A:188:U:H2'	1:2A:189:C:H5'	1.60	0.82
11:2P:95:VAL:HG22	11:2P:125:VAL:HA	1.61	0.82
12:2Q:103:MET:HE1	12:2Q:127:ILE:HD11	1.61	0.82
14:2S:27:SER:HA	14:2S:88:ASP:HB3	1.61	0.82
22:20:27:GLU:HB2	22:20:69:PHE:HD2	1.42	0.82
44:2m:4:ILE:HD13	44:2m:19:LEU:CD1	2.08	0.82
46:2o:26:GLU:OE2	46:2o:77:ARG:NE	2.11	0.82
1:1A:449:A:OP2	59:1A:3968:HOH:O	1.96	0.82
1:1A:1860:C:OP2	59:1A:3981:HOH:O	1.97	0.82
1:1A:2239:G:OP1	3:1D:261:LYS:NZ	2.11	0.82
32:1a:104:C:O2'	47:1p:25:ARG:O	1.97	0.82
32:1a:425:U:H1'	32:1a:426:A:H5"	1.61	0.82
1:2A:845:G:OP2	59:2A:3638:HOH:O	1.96	0.82
1:2A:2226:G:H5"	1:2A:2227:G:N7	1.94	0.82
1:2A:2307:U:OP2	14:2S:9:ARG:NH2	2.11	0.82
32:2a:1483:G:OP1	59:2a:1901:HOH:O	1.96	0.82
39:2h:20:TYR:HA	39:2h:65:TYR:CE2	2.14	0.82
1:1A:2150:C:N3	1:1A:2180:G:O6	2.11	0.82
3:1D:70:TRP:HB3	3:1D:190:TYR:CE2	2.14	0.82
8:1I:1:MET:N	8:1I:21:VAL:O	2.12	0.82
10:1O:104:ARG:NH2	15:1T:43:GLN:OE1	2.12	0.82
32:1a:231:C:H2'	32:1a:232:G:H8	1.43	0.82
1:2A:661:A:OP1	11:2P:133:SER:OG	1.97	0.82
1:2A:827:A:OP1	3:2D:218:ARG:NH2	2.12	0.82
1:2A:1273:G:H2'	1:2A:1274:G:H5"	1.59	0.82
7:2H:23:ARG:HG2	7:2H:36:PRO:CA	2.08	0.82
25:23:12:PRO:HB2	25:23:20:LYS:HG2	1.59	0.82
30:28:23:VAL:CG1	30:28:47:LYS:HB3	2.09	0.82
1:1A:9:G:O2'	1:1A:2811:A:N7	2.13	0.82
1:1A:582:C:H4'	16:1U:52:ARG:HH12	1.45	0.82
1:1A:2067:G:H5'	27:15:19:ARG:HG3	1.59	0.82
4:1E:134:ILE:HA	4:1E:137:HIS:HD2	1.45	0.82
1:2A:600:A:OP1	1:2A:1300:U:O2'	1.96	0.82
1:2A:639:A:O3'	59:2A:3640:HOH:O	1.96	0.82
1:2A:2663:C:H42	1:2A:2679:G:H1	1.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2I:80:PRO:HA	8:2I:145:VAL:HG23	1.60	0.82
32:2a:549:U:OP2	32:2a:550:G:O2'	1.97	0.82
32:2a:905:G:O2'	32:2a:1481:A:N6	2.12	0.82
34:2c:157:ILE:CD1	34:2c:166:GLU:HG2	2.09	0.82
1:1A:903:C:H5'	22:10:69:PHE:HE2	1.42	0.82
1:1A:991:G:OP1	59:1A:3982:HOH:O	1.97	0.82
1:1A:1290:G:OP1	11:1P:13:ASN:ND2	2.11	0.82
5:1F:132:VAL:HG21	5:1F:163:VAL:HG22	1.60	0.82
5:1F:200:GLU:OE2	5:1F:204:ASN:ND2	2.13	0.82
12:1Q:21:THR:OG1	12:1Q:99:PRO:O	1.97	0.82
40:1i:25:LYS:N	40:1i:60:ASP:OD1	2.12	0.82
1:2A:1860:C:OP2	59:2A:3635:HOH:O	1.95	0.82
6:2G:3:LEU:HD22	26:24:25:TYR:HE2	1.45	0.82
32:2a:558:A:O2'	32:2a:860:C:O2'	1.98	0.82
32:2a:646:G:O2'	32:2a:820:G:OP1	1.96	0.82
34:2c:180:ALA:HB1	34:2c:203:PHE:HE1	1.44	0.82
39:2h:28:ALA:HB2	39:2h:57:PRO:HB2	1.58	0.82
44:2m:24:GLY:O	44:2m:29:ARG:NH1	2.10	0.82
44:2m:78:ILE:O	44:2m:81:LEU:N	2.11	0.82
1:1A:1232:U:H4'	17:1V:79:VAL:HG13	1.62	0.82
1:1A:1464:A:OP2	59:1A:3986:HOH:O	1.98	0.82
1:1A:2439:G:O2'	59:1A:3977:HOH:O	1.97	0.82
1:1A:2482:C:OP2	59:1A:3958:HOH:O	1.95	0.82
32:1a:1110:G:H1	32:1a:1128:C:H42	1.25	0.82
33:1b:127:ILE:HG22	33:1b:130:ARG:HG2	1.60	0.82
35:1d:129:ASN:N	35:1d:145:GLU:O	2.10	0.82
44:1m:22:ILE:HG21	44:1m:25:ILE:HD12	1.61	0.82
51:1t:56:MET:HG3	51:1t:84:LEU:CD2	2.09	0.82
1:2A:1387:A:OP2	59:2A:3630:HOH:O	1.98	0.82
32:2a:1008:C:O2	32:2a:1015:G:N1	2.12	0.82
1:1A:18:C:OP2	16:1U:30:LYS:NZ	2.12	0.82
1:1A:23:G:O2'	18:1W:78:GLU:O	1.97	0.82
1:1A:1741:G:N7	3:1D:14:ARG:NH2	2.28	0.82
32:1a:608:C:O2'	47:1p:10:GLY:HA2	1.79	0.82
32:1a:1362:G:N2	32:1a:1364:U:O4	2.12	0.82
38:1g:113:GLU:O	38:1g:119:ARG:NH1	2.11	0.82
1:2A:831:G:OP2	59:2A:3647:HOH:O	1.97	0.82
1:2A:1648:A:OP1	59:2A:3643:HOH:O	1.96	0.82
1:2A:2020:C:O2	1:2A:2698:U:O2'	1.97	0.82
32:2a:640:C:N4	32:2a:734:G:O6	2.13	0.82
1:1A:499:G:O6	59:1A:3984:HOH:O	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1439:U:OP1	59:1A:3953:HOH:O	1.97	0.82
1:1A:2154:G:H3'	1:1A:2178:G:H21	1.43	0.82
1:1A:2698:U:OP2	59:1A:3972:HOH:O	1.97	0.82
32:1a:517:A:O2'	32:1a:519:A:OP2	1.96	0.82
44:1m:3:ARG:O	44:1m:57:ARG:NH2	2.13	0.82
47:1p:40:ASP:OD2	47:1p:44:THR:OG1	1.98	0.82
1:2A:795:C:OP2	59:2A:3646:HOH:O	1.97	0.82
1:2A:1069:G:O2'	1:2A:1189:G:O2'	1.98	0.82
1:2A:1181:G:N2	9:2N:105:GLY:O	2.13	0.82
1:2A:1661:A:O2'	59:2A:3623:HOH:O	1.93	0.82
14:2S:66:ALA:O	14:2S:69:VAL:HG22	1.78	0.82
19:2X:4:ALA:HB1	19:2X:42:ALA:HA	1.62	0.82
40:2i:80:GLY:HA2	40:2i:83:ARG:HB3	1.60	0.82
42:2k:48:ILE:HD11	42:2k:64:ALA:HA	1.61	0.82
1:1A:1952:U:O2'	59:1A:3969:HOH:O	1.96	0.82
3:1D:226:MET:O	59:1D:402:HOH:O	1.98	0.82
11:1P:127:ALA:HB3	11:1P:130:PHE:HE1	1.45	0.82
32:1a:843:A:H2	32:1a:896:A:H4'	1.45	0.82
44:1m:88:ARG:HG2	44:1m:98:VAL:HG13	1.61	0.82
48:1q:32:TYR:O	48:1q:34:LYS:N	2.13	0.82
1:2A:819:U:OP1	59:2A:3655:HOH:O	1.98	0.82
1:2A:1613:A:OP2	3:2D:84:TYR:OH	1.97	0.82
7:2H:27:LYS:NZ	7:2H:32:GLU:OE1	2.13	0.82
24:22:17:SER:HB3	24:22:20:GLU:HG3	1.61	0.82
32:2a:1392:C:H42	32:2a:1469:G:H1	1.28	0.82
34:2c:5:ILE:HG13	34:2c:6:HIS:H	1.42	0.82
1:1A:1071:U:OP1	59:1A:3939:HOH:O	1.98	0.82
1:1A:1130:A:HO2'	1:1A:1149:C:HO2'	1.11	0.82
1:1A:2050:G:OP2	59:1A:3988:HOH:O	1.98	0.82
32:1a:868:G:O2'	32:1a:884:G:O6	1.98	0.82
35:1d:61:LYS:HG3	35:1d:75:PHE:HE2	1.43	0.82
42:1k:84:VAL:HG11	42:1k:91:ARG:HD2	1.61	0.82
1:2A:623:C:O2'	1:2A:627:C:OP1	1.97	0.82
1:2A:986:G:OP2	11:2P:39:LYS:NZ	2.12	0.82
1:2A:1176:G:OP2	1:2A:2526:C:H4'	1.78	0.82
1:2A:1299:A:H5"	1:2A:1300:U:H5"	1.62	0.82
32:2a:971:G:H1	32:2a:1028:C:H42	1.27	0.82
34:2c:112:SER:OG	34:2c:115:LEU:HD13	1.80	0.82
1:1A:1209:G:O6	59:1A:3965:HOH:O	1.96	0.81
1:1A:1714:A:N6	1:1A:2012:U:O2	2.13	0.81
1:1A:2093:G:N2	59:1A:4260:HOH:O	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:21:LYS:NZ	9:1N:140:VAL:OXT	2.12	0.81
41:1j:81:THR:O	41:1j:85:LEU:HG	1.79	0.81
47:1p:58:TYR:O	47:1p:61:SER:OG	1.98	0.81
1:2A:8:U:O2'	1:2A:9:G:OP1	1.98	0.81
1:2A:247:G:H2'	1:2A:248:G:H8	1.45	0.81
1:2A:655:A:OP2	30:28:47:LYS:NZ	2.11	0.81
4:2E:170:LEU:HB3	4:2E:184:VAL:CG1	2.10	0.81
28:26:8:LYS:NZ	59:26:601:HOH:O	2.13	0.81
1:1A:2300:G:OP1	59:1A:3978:HOH:O	1.97	0.81
1:1A:2599:G:OP1	59:1A:3990:HOH:O	1.98	0.81
32:1a:96:G:O2'	32:1a:146:A:N3	2.12	0.81
32:1a:1330:U:H4'	40:1i:120:ARG:CD	2.09	0.81
1:2A:498:G:O6	59:2A:3650:HOH:O	1.98	0.81
1:2A:720:G:H1'	5:2F:74:ARG:HD3	1.62	0.81
1:2A:1921:A:OP2	59:2A:3654:HOH:O	1.98	0.81
1:2A:2082:G:OP2	59:2A:3658:HOH:O	1.98	0.81
1:2A:2405:C:O2	59:2A:3656:HOH:O	1.98	0.81
1:2A:2609:A:OP1	59:2A:3660:HOH:O	1.99	0.81
23:21:75:GLU:HA	23:21:78:LYS:HZ3	1.44	0.81
32:2a:556:A:OP2	59:2a:1904:HOH:O	1.98	0.81
32:2a:1226:C:H2'	32:2a:1227:A:C8	2.15	0.81
41:2j:30:SER:OG	41:2j:81:THR:HG22	1.79	0.81
52:2u:12:LYS:HA	52:2u:15:ARG:HB3	1.61	0.81
1:1A:132:G:O6	59:1A:3994:HOH:O	1.98	0.81
1:1A:829:A:O2'	1:1A:831:G:OP1	1.98	0.81
1:1A:1727:G:N3	59:1A:4232:HOH:O	2.10	0.81
1:1A:2162:G:C2'	1:1A:2163:C:H5'	2.10	0.81
1:1A:2249:G:O3'	59:1A:3980:HOH:O	1.97	0.81
3:1D:13:ARG:NH1	3:1D:16:MET:SD	2.52	0.81
5:1F:155:LEU:HB2	5:1F:189:THR:HG21	1.60	0.81
6:1G:173:LEU:HD22	6:1G:178:PHE:CE2	2.16	0.81
8:1I:83:ALA:HA	8:1I:89:TYR:CD2	2.15	0.81
16:1U:76:TYR:OH	16:1U:92:ARG:NE	2.11	0.81
32:1a:967:C:O2'	32:1a:996:G:O2'	1.98	0.81
32:1a:971:G:O2'	32:1a:973:C:N4	2.13	0.81
32:1a:1424:G:H5'	32:1a:1425:G:H5"	1.62	0.81
35:1d:62:GLN:HE22	35:1d:65:ARG:HH21	1.27	0.81
40:1i:100:GLY:O	40:1i:103:THR:OG1	1.98	0.81
46:1o:62:GLN:OE1	46:1o:65:ARG:NH2	2.10	0.81
50:1s:79:THR:HG22	50:1s:81:ARG:HH11	1.45	0.81
1:2A:590:U:O4	59:2A:3649:HOH:O	1.97	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2119:U:O2	1:2A:2212:G:N2	2.13	0.81
1:2A:2613:A:H4'	1:2A:2614:G:OP1	1.78	0.81
3:2D:123:ALA:HB3	3:2D:131:LEU:HD11	1.62	0.81
6:2G:103:LEU:HA	6:2G:106:LEU:HB3	1.62	0.81
30:28:30:ARG:O	59:28:8101:HOH:O	1.97	0.81
32:2a:1218:A:H2'	32:2a:1219:C:C6	2.15	0.81
39:2h:65:TYR:HA	39:2h:79:VAL:HG23	1.63	0.81
44:2m:82:MET:HE2	44:2m:92:HIS:HB3	1.61	0.81
52:2u:12:LYS:O	52:2u:16:GLY:N	2.12	0.81
52:2u:20:LYS:HD3	52:2u:21:TYR:HE1	1.45	0.81
1:1A:806:G:OP1	59:1A:3975:HOH:O	1.97	0.81
1:1A:1198:C:OP2	59:1A:3996:HOH:O	1.99	0.81
1:1A:1856:G:O2'	3:1D:242:ARG:NH2	2.12	0.81
17:1V:21:ARG:HD3	17:1V:91:TYR:CD2	2.15	0.81
18:1W:37:ARG:HG2	18:1W:38:TYR:CE1	2.16	0.81
44:1m:97:PRO:HB3	44:1m:101:GLN:HB2	1.63	0.81
1:2A:986:G:O2'	1:2A:1233:A:N3	2.13	0.81
6:2G:41:GLN:HG2	6:2G:43:LEU:CD1	2.11	0.81
32:2a:727:U:H2'	32:2a:728:C:C6	2.16	0.81
32:2a:1225:C:H2'	32:2a:1226:C:C6	2.16	0.81
1:1A:1383:G:O6	19:1X:62:LYS:NZ	2.12	0.81
1:1A:1394:A:OP1	59:1A:3995:HOH:O	1.99	0.81
1:1A:1640:G:O6	59:1A:3985:HOH:O	1.97	0.81
32:1a:581:G:H2'	32:1a:582:U:H5'	1.63	0.81
32:1a:722:C:H2'	32:1a:723:C:H6	1.44	0.81
1:2A:323:A:OP1	20:2Y:86:ARG:NH2	2.14	0.81
1:2A:394:C:OP2	59:2A:3652:HOH:O	1.98	0.81
1:2A:1396:C:OP2	59:2A:3637:HOH:O	1.98	0.81
1:2A:2438:C:OP1	59:2A:3645:HOH:O	1.97	0.81
6:2G:16:ARG:HB2	6:2G:17:PRO:HD3	1.62	0.81
19:2X:27:THR:OG1	19:2X:80:ILE:HG12	1.80	0.81
32:2a:359:A:OP1	43:2l:34:ARG:N	2.11	0.81
34:2c:24:ALA:CB	34:2c:29:TYR:HB2	2.10	0.81
42:2k:58:PRO:O	42:2k:62:GLN:N	2.12	0.81
48:2q:19:VAL:HG23	48:2q:44:ALA:HB3	1.62	0.81
1:1A:328:U:N3	1:1A:335:G:O6	2.14	0.81
1:1A:1101:G:H21	1:1A:1148:A:H62	1.27	0.81
32:1a:558:A:OP2	59:1a:2004:HOH:O	1.98	0.81
1:2A:185:A:O2'	1:2A:2255:U:OP1	1.98	0.81
1:2A:1341:G:OP1	1:2A:2720:G:O2'	1.99	0.81
1:2A:1552:A:O2'	1:2A:1553:A:O5'	1.97	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2012:U:H2'	1:2A:2013:G:H5"	1.63	0.81
2:2B:30:C:H2'	2:2B:31:C:H5'	1.61	0.81
26:24:12:ALA:N	26:24:24:THR:O	2.14	0.81
32:2a:603:U:N3	35:2d:134:ASP:OD1	2.14	0.81
32:2a:1043:C:C5	34:2c:2:GLY:HA2	2.16	0.81
33:2b:212:GLN:NE2	33:2b:235:SER:OG	2.12	0.81
35:2d:92:VAL:HG12	35:2d:96:LEU:HD13	1.61	0.81
35:2d:104:VAL:HA	35:2d:107:ARG:HB3	1.61	0.81
41:2j:88:LEU:O	41:2j:90:LEU:N	2.14	0.81
42:2k:61:ALA:HB1	42:2k:94:ALA:HB2	1.61	0.81
1:1A:112:C:O2'	1:1A:124:A:O2'	1.99	0.81
1:1A:1115:A:N7	1:1A:1142:U:H4'	1.95	0.81
4:1E:110:GLY:O	59:1R:301:HOH:O	1.98	0.81
12:1Q:96:VAL:O	59:1Q:301:HOH:O	1.99	0.81
32:1a:1382:C:H4'	32:1a:1383:5MC:H5"	1.61	0.81
1:2A:233:G:O6	30:28:8:LYS:NZ	2.14	0.81
26:24:15:ILE:HB	26:24:32:TYR:CD1	2.15	0.81
32:2a:285:G:OP2	59:2a:1903:HOH:O	1.98	0.81
36:2e:82:VAL:HG21	36:2e:138:ALA:HA	1.62	0.81
1:1A:1514:C:OP1	59:1A:3987:HOH:O	1.98	0.81
32:1a:419:G:H2'	32:1a:420:G:H5'	1.61	0.81
32:1a:434:G:H4'	35:1d:123:HIS:CD2	2.14	0.81
32:1a:1424:G:O6	59:1a:2005:HOH:O	1.99	0.81
33:1b:60:ASP:OD1	33:1b:64:ARG:NE	2.14	0.81
5:2F:95:ARG:HB2	5:2F:97:TYR:HE1	1.45	0.81
10:2O:12:ASP:OD2	59:2O:301:HOH:O	1.98	0.81
15:2T:67:SER:N	15:2T:70:VAL:O	2.12	0.81
32:2a:39:G:H4'	32:2a:531:A:N6	1.95	0.81
41:2j:30:SER:OG	41:2j:84:GLN:OE1	1.97	0.81
4:1E:59:VAL:O	4:1E:64:LYS:HE2	1.81	0.81
24:12:1:MET:SD	24:12:56:GLN:NE2	2.52	0.81
30:18:22:VAL:HG12	30:18:50:LEU:HD12	1.63	0.81
32:1a:350:G:N2	32:1a:384:G:O2'	2.14	0.81
2:2B:42:C:O2'	6:2G:67:LYS:O	1.98	0.81
6:2G:37:VAL:HG23	6:2G:99:MET:HG3	1.60	0.81
32:2a:1134:A:O4'	41:2j:39:PRO:HB2	1.79	0.81
32:2a:1351:G:OP2	40:2i:112:LYS:HG3	1.80	0.81
1:1A:352:G:O6	20:1Y:19:LYS:N	2.13	0.81
1:1A:1985:G:O2'	1:1A:1988:C:OP2	1.99	0.81
1:1A:2594:G:OP2	59:1A:3993:HOH:O	1.98	0.81
9:1N:123:TYR:CE2	9:1N:129:PRO:HD2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:30:ASN:HB3	21:1Z:90:VAL:HB	1.63	0.81
32:1a:403:G:O6	32:1a:431:C:N4	2.13	0.81
32:1a:1048:U:H1'	32:1a:1049:C:OP2	1.81	0.81
32:1a:1431:U:O2'	32:1a:1432:A:O5'	1.99	0.81
1:2A:1716:C:OP1	59:2A:3661:HOH:O	1.99	0.81
2:2B:37:C:O2	14:2S:95:HIS:NE2	2.14	0.81
6:2G:104:GLU:HG3	6:2G:108:ASN:HD22	1.44	0.81
32:2a:488:C:N4	32:2a:525:G:O6	2.13	0.81
32:2a:1133:U:C2'	32:2a:1134:A:H5'	2.11	0.81
33:2b:163:PHE:HA	33:2b:185:ILE:O	1.81	0.81
40:2i:79:LEU:HD11	40:2i:83:ARG:HH21	1.44	0.81
42:2k:92:GLU:HA	42:2k:95:ILE:HD12	1.61	0.81
50:2s:50:ALA:HA	50:2s:59:PRO:HA	1.61	0.81
1:1A:872:U:OP1	59:1A:3999:HOH:O	1.99	0.80
1:1A:1104:G:O6	1:1A:1124:C:N3	2.14	0.80
1:1A:1254:A:H5"	1:1A:1256:G:H5'	1.62	0.80
1:1A:1756:C:O2'	1:1A:2867:C:N3	2.13	0.80
1:1A:1843:G:O2'	3:1D:42:GLY:O	1.99	0.80
1:1A:2134:U:H3	1:1A:2189:G:H4'	1.45	0.80
1:1A:2583:A:C8	4:1E:144:ARG:HD2	2.16	0.80
5:1F:117:ARG:NH2	5:1F:189:THR:O	2.13	0.80
32:1a:1432:A:H5"	32:1a:1433:C:OP2	1.81	0.80
33:1b:208:ILE:HG13	33:1b:209:ARG:N	1.96	0.80
34:1c:33:LEU:HD21	45:1n:39:LEU:HD11	1.61	0.80
35:1d:11:LEU:HD23	35:1d:66:ARG:HB3	1.61	0.80
42:1k:20:TYR:CE1	42:1k:83:ILE:HD12	2.16	0.80
1:2A:1026:A:OP1	59:2A:3648:HOH:O	1.97	0.80
2:2B:29:A:P	14:2S:32:LEU:HD23	2.21	0.80
4:2E:52:LEU:O	4:2E:76:ARG:N	2.14	0.80
17:2V:35:LEU:HB2	17:2V:57:VAL:CG2	2.11	0.80
21:2Z:31:ARG:NH1	21:2Z:94:GLU:OE1	2.14	0.80
32:2a:246:A:H4'	32:2a:247:G:O5'	1.79	0.80
32:2a:1060:G:N2	32:2a:1063:A:OP2	2.12	0.80
32:2a:1283:U:O2'	32:2a:1284:U:H5'	1.82	0.80
1:1A:435:C:OP1	59:1A:4008:HOH:O	1.99	0.80
1:1A:600:A:OP2	59:1A:4001:HOH:O	1.99	0.80
1:1A:850:A:OP1	59:1A:3922:HOH:O	1.98	0.80
2:1B:96:U:OP2	59:1B:302:HOH:O	1.99	0.80
4:1E:5:LEU:HD21	4:1E:79:ARG:HB2	1.62	0.80
41:1j:62:HIS:CB	45:1n:59:ALA:HB3	2.11	0.80
1:2A:601:G:O2'	1:2A:2040:A:OP1	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1816:A:OP1	59:2A:3668:HOH:O	1.99	0.80
1:2A:2612:C:H3'	1:2A:2613:A:H5"	1.61	0.80
3:2D:125:ILE:CB	37:2f:81:ILE:HD11	2.10	0.80
7:2H:133:VAL:HG12	7:2H:141:VAL:HG13	1.63	0.80
1:1A:1000:G:O6	59:1A:4006:HOH:O	1.99	0.80
1:1A:1198:C:OP1	16:1U:92:ARG:NH2	2.13	0.80
1:1A:1397:U:OP1	59:1A:3979:HOH:O	1.97	0.80
17:1V:79:VAL:O	59:1V:302:HOH:O	1.99	0.80
32:1a:1204:G:OP1	50:1s:77:THR:OG1	1.98	0.80
1:2A:600:A:OP2	59:2A:3651:HOH:O	1.98	0.80
1:2A:1198:C:OP1	16:2U:92:ARG:NH2	2.12	0.80
1:2A:1586:U:OP1	59:2A:3653:HOH:O	1.98	0.80
2:2B:43:C:H5"	26:24:1:MET:HG2	1.63	0.80
4:2E:198:VAL:O	59:2E:404:HOH:O	1.98	0.80
13:2R:56:LYS:NZ	13:2R:94:TYR:OH	2.15	0.80
19:2X:61:GLY:HA3	19:2X:73:ARG:O	1.82	0.80
32:2a:812:A:H62	32:2a:836:G:H21	1.28	0.80
32:2a:1030:G:H5"	45:2n:4:LYS:HD3	1.62	0.80
42:2k:80:VAL:HG11	42:2k:103:LEU:HD23	1.63	0.80
1:1A:174:G:OP2	59:1A:4003:HOH:O	1.99	0.80
1:1A:1075:G:OP2	12:1Q:128:LYS:NZ	2.15	0.80
1:1A:2234:G:OP1	3:1D:172:TYR:OH	1.99	0.80
17:1V:62:LEU:HD11	17:1V:95:LEU:HB2	1.61	0.80
32:1a:1430:C:O2'	32:1a:1432:A:N6	2.13	0.80
1:2A:786:U:OP2	59:2A:3662:HOH:O	1.99	0.80
1:2A:1002:U:OP2	12:2Q:14:ARG:NH1	2.13	0.80
1:2A:1500:U:H5'	13:2R:63:ARG:HH12	1.43	0.80
1:2A:2581:G:O6	59:2A:3669:HOH:O	2.00	0.80
6:2G:107:LEU:HD11	6:2G:178:PHE:HE1	1.46	0.80
11:2P:126:VAL:HG12	11:2P:148:LEU:HD23	1.62	0.80
20:2Y:38:ILE:HD13	20:2Y:66:PRO:HA	1.61	0.80
32:2a:1354:G:O3'	40:2i:69:GLY:HA3	1.82	0.80
4:1E:131:ALA:O	59:1E:403:HOH:O	1.99	0.80
32:1a:68:C:O2'	32:1a:166:A:H1'	1.81	0.80
34:1c:131:ARG:HD3	34:1c:166:GLU:OE2	1.81	0.80
1:2A:1110:U:O2'	1:2A:1111:U:OP2	2.00	0.80
1:2A:1685:U:OP1	59:2A:3671:HOH:O	2.00	0.80
1:2A:2539:U:O2'	1:2A:2541:A:OP1	2.00	0.80
16:2U:82:GLY:O	16:2U:86:ALA:N	2.14	0.80
33:2b:68:ILE:HG12	33:2b:161:ALA:HB3	1.63	0.80
39:2h:97:VAL:HA	39:2h:100:ILE:CD1	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2526:C:N4	59:1A:4295:HOH:O	2.14	0.80
1:1A:2700:U:OP2	1:1A:2731:G:N2	2.12	0.80
10:1O:49:ARG:NH1	32:1a:1405:G:O3'	2.15	0.80
11:1P:58:THR:OG1	59:1P:305:HOH:O	2.00	0.80
21:1Z:180:VAL:HG13	21:1Z:183:LEU:HD12	1.62	0.80
32:1a:54:A:OP2	59:1a:2006:HOH:O	2.00	0.80
32:1a:260:U:O2'	48:1q:64:PRO:O	1.98	0.80
32:1a:386:C:O2'	47:1p:28:ARG:NH2	2.14	0.80
1:2A:552:A:O2'	59:2A:3670:HOH:O	2.00	0.80
1:2A:997:A:H2'	1:2A:998:G:H8	1.45	0.80
5:2F:179:GLU:O	5:2F:205:ARG:NH2	2.15	0.80
6:2G:135:LEU:HB2	6:2G:155:MET:HG2	1.61	0.80
33:2b:52:GLU:O	33:2b:56:ARG:NE	2.14	0.80
34:2c:14:ILE:HG21	34:2c:178:LEU:HD23	1.63	0.80
35:2d:163:GLU:O	35:2d:166:LYS:HG2	1.80	0.80
39:2h:34:GLU:HB3	39:2h:118:VAL:HG21	1.62	0.80
1:1A:596:C:N3	4:1E:145:LYS:NZ	2.29	0.80
1:1A:614:G:O6	59:1A:4017:HOH:O	2.00	0.80
8:1I:31:LEU:HD21	8:1I:38:LEU:CD1	2.12	0.80
26:14:67:TYR:CD2	50:1s:16:LEU:HD11	2.16	0.80
33:1b:92:TYR:CD1	33:1b:151:GLY:HA3	2.17	0.80
36:1e:148:VAL:HG21	39:1h:107:LEU:HD22	1.63	0.80
37:1f:75:LEU:O	37:1f:78:GLU:N	2.14	0.80
50:1s:28:LYS:NZ	50:1s:46:GLY:O	2.13	0.80
1:2A:38:C:O2	5:2F:46:ARG:NH2	2.15	0.80
1:2A:798:A:H4'	1:2A:799:C:O5'	1.80	0.80
1:2A:2480:A:O2'	12:2Q:56:ARG:NH1	2.15	0.80
1:2A:2633:C:O2'	1:2A:2834:C:N3	2.15	0.80
7:2H:8:PRO:HB3	7:2H:51:ARG:CG	2.11	0.80
31:29:24:TYR:CE1	31:29:35:ARG:HG3	2.17	0.80
32:2a:173:C:H2'	32:2a:174:A:H8	1.45	0.80
32:2a:262:G:H3'	48:2q:67:LYS:HB2	1.64	0.80
32:2a:1308:C:OP1	52:2u:12:LYS:NZ	2.14	0.80
44:2m:14:ARG:HE	44:2m:42:ALA:HA	1.45	0.80
1:1A:1430:G:O2'	1:1A:1441:U:O2	1.98	0.80
1:1A:2446:A:OP2	59:1A:3989:HOH:O	1.98	0.80
1:1A:2731:G:OP2	59:1A:4010:HOH:O	2.00	0.80
6:1G:39:ILE:HB	6:1G:92:VAL:HG12	1.63	0.80
15:1T:122:ASP:O	15:1T:126:ALA:N	2.12	0.80
35:1d:53:ASP:HB3	35:1d:57:ARG:HH12	1.46	0.80
39:1h:26:VAL:HG21	59:1h:3102:HOH:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:241:C:O3'	59:2A:3665:HOH:O	1.99	0.80
1:2A:1540:A:OP2	59:2A:3663:HOH:O	1.99	0.80
1:2A:1693:G:OP2	59:2A:3679:HOH:O	2.00	0.80
1:2A:1833:A:O2'	3:2D:259:THR:HG21	1.80	0.80
1:2A:2049:U:O4	59:2A:3634:HOH:O	1.99	0.80
10:2O:66:LYS:N	10:2O:82:ASN:OD1	2.12	0.80
29:27:13:ALA:O	59:27:201:HOH:O	1.98	0.80
32:2a:1338:G:H2'	32:2a:1339:A:H8	1.44	0.80
36:2e:78:HIS:CD2	39:2h:104:ARG:HD2	2.16	0.80
1:1A:1137:C:H2'	1:1A:1138:G:O4'	1.82	0.80
1:1A:1717:U:O4	59:1A:3934:HOH:O	1.99	0.80
1:1A:1921:A:OP2	59:1A:4012:HOH:O	2.00	0.80
32:1a:787:G:OP1	59:1a:2007:HOH:O	2.00	0.80
32:1a:915:A:N6	32:1a:1327:U:O4	2.13	0.80
34:1c:187:ALA:O	34:1c:198:VAL:HB	1.80	0.80
35:1d:26:CYS:HB3	58:1d:501:SF4:S1	2.22	0.80
43:1l:32:PHE:HB3	43:1l:84:LEU:HD11	1.62	0.80
1:2A:807:A:OP2	59:2A:3664:HOH:O	1.99	0.80
1:2A:1098:C:H2'	1:2A:1099:A:H8	1.47	0.80
1:2A:1882:C:O2	1:2A:1911:A:N6	2.15	0.80
5:2F:184:TYR:CE2	5:2F:188:ARG:HD2	2.16	0.80
32:2a:795:C:O2'	32:2a:879:A:N1	2.15	0.80
32:2a:976:G:H1	32:2a:1026:C:H42	1.29	0.80
35:2d:92:VAL:HG12	35:2d:96:LEU:CD1	2.11	0.80
1:1A:29:G:O6	59:1A:3984:HOH:O	2.00	0.80
1:1A:725:C:OP1	59:1A:3973:HOH:O	1.99	0.80
6:1G:31:VAL:O	59:1G:8101:HOH:O	1.99	0.80
12:1Q:116:GLU:OE2	12:1Q:119:ARG:NH2	2.15	0.80
17:1V:68:LYS:O	59:1V:301:HOH:O	1.99	0.80
32:1a:725:G:H5'	46:1o:39:LEU:HD21	1.62	0.80
39:1h:41:ARG:NH1	39:1h:123:GLU:OE2	2.15	0.80
44:1m:99:ARG:HB2	44:1m:101:GLN:HE22	1.47	0.80
2:2B:88:C:OP2	59:2B:301:HOH:O	1.99	0.80
4:2E:113:PHE:HB2	4:2E:159:HIS:CD2	2.16	0.80
32:2a:638:G:O6	32:2a:738:C:N4	2.14	0.80
41:2j:40:LEU:HB3	41:2j:41:PRO:HD2	1.63	0.80
1:1A:708:G:OP1	11:1P:16:ARG:NE	2.12	0.79
1:1A:1810:A:OP1	59:1A:3992:HOH:O	1.98	0.79
26:14:61:ARG:NH2	50:1s:9:VAL:HG11	1.96	0.79
32:1a:953:A:C4'	32:1a:954:G:H5"	2.12	0.79
32:1a:1100:G:H4'	40:1i:104:ARG:HH12	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1270:A:O3'	52:1u:10:ARG:NH2	2.15	0.79
1:2A:237:C:O2	30:28:12:LYS:NZ	2.14	0.79
1:2A:648:C:OP1	59:2A:3657:HOH:O	1.98	0.79
1:2A:1230:G:OP2	59:2A:3633:HOH:O	2.00	0.79
1:2A:1672:G:OP1	59:2A:3667:HOH:O	1.99	0.79
1:2A:1697:G:H5'	13:2R:39:PRO:HG2	1.63	0.79
2:2B:8:U:N3	2:2B:113:G:O6	2.14	0.79
21:2Z:182:LYS:HE2	21:2Z:186:GLU:OE2	1.81	0.79
32:2a:422:G:OP1	35:2d:38:TYR:OH	2.00	0.79
32:2a:982:G:H2'	32:2a:983:A:C4'	2.11	0.79
48:2q:45:HIS:CD2	48:2q:47:PRO:HD3	2.17	0.79
1:1A:524:G:O6	59:1A:3998:HOH:O	1.99	0.79
1:1A:992:G:OP1	59:1A:4011:HOH:O	2.00	0.79
1:1A:1269:C:OP1	59:1A:4020:HOH:O	2.00	0.79
1:1A:1652:C:N4	1:1A:1667:G:OP2	2.14	0.79
1:1A:2003:C:OP2	59:1A:4013:HOH:O	2.00	0.79
32:1a:1481:A:OP1	32:1a:1509:A:O2'	1.99	0.79
36:1e:137:GLU:HA	36:1e:140:ARG:HB3	1.63	0.79
50:1s:3:ARG:HH21	50:1s:7:LYS:HB3	1.45	0.79
1:2A:830:A:OP2	59:2A:3642:HOH:O	2.00	0.79
7:2H:13:LYS:HA	7:2H:15:VAL:H	1.46	0.79
9:2N:19:GLU:HA	9:2N:59:LYS:O	1.82	0.79
10:2O:64:ARG:HD2	10:2O:79:PHE:HD2	1.48	0.79
17:2V:30:GLY:H	17:2V:61:VAL:HG23	1.47	0.79
20:2Y:47:LYS:O	20:2Y:61:ILE:N	2.14	0.79
24:22:12:GLU:O	24:22:16:LEU:HG	1.83	0.79
32:2a:626:A:N3	39:2h:113:SER:OG	2.14	0.79
32:2a:952:A:OP2	45:2n:29:ARG:NH2	2.16	0.79
35:2d:141:ARG:N	35:2d:144:ASP:OD2	2.15	0.79
39:2h:103:VAL:HG23	39:2h:110:ALA:HB2	1.62	0.79
1:1A:1318:U:O2'	1:1A:1320:A:OP1	1.99	0.79
1:1A:2894:C:OP2	59:1A:3983:HOH:O	1.97	0.79
5:1F:59:TYR:HD2	5:1F:78:ILE:HG13	1.47	0.79
32:1a:1268:A:H2'	32:1a:1269:A:C4'	2.11	0.79
44:1m:24:GLY:O	44:1m:29:ARG:NH1	2.15	0.79
1:2A:607:G:OP2	59:2A:3675:HOH:O	2.00	0.79
1:2A:1863:U:O2'	1:2A:1990:A:N1	2.16	0.79
1:2A:2213:G:H2'	1:2A:2214:G:H5'	1.64	0.79
1:2A:2542:A:H61	1:2A:2673:A:H61	1.27	0.79
4:2E:169:ASN:OD1	4:2E:203:LYS:HG3	1.81	0.79
16:2U:52:ARG:HG3	16:2U:55:ARG:HD2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:129:A:N1	47:2p:25:ARG:NH2	2.30	0.79
38:2g:50:ILE:HD11	38:2g:58:PRO:CB	2.13	0.79
1:1A:169:A:OP1	59:1A:4005:HOH:O	1.99	0.79
1:1A:296:C:H2'	1:1A:297:G:C8	2.16	0.79
1:1A:779:G:OP2	59:1A:4024:HOH:O	2.01	0.79
1:1A:885:U:N3	1:1A:983:G:O6	2.11	0.79
1:1A:1087:G:H2'	1:1A:1088:C:H5'	1.62	0.79
1:1A:1158:U:H2'	1:1A:1159:G:C8	2.17	0.79
1:1A:1661:A:O2'	59:1A:4015:HOH:O	2.00	0.79
1:1A:1718:C:O2'	59:1A:3997:HOH:O	1.99	0.79
6:1G:15:VAL:HG21	6:1G:176:LEU:HD23	1.65	0.79
32:1a:725:G:H2'	32:1a:726:G:H8	1.48	0.79
32:1a:1300:A:H4'	50:1s:10:PHE:CD2	2.18	0.79
1:2A:1404:A:N6	1:2A:1417:U:O4	2.12	0.79
1:2A:1603:C:OP2	1:2A:1604:A:O2'	2.00	0.79
1:2A:2396:C:OP1	59:2A:3666:HOH:O	1.99	0.79
1:2A:2612:C:C3'	1:2A:2613:A:H5"	2.12	0.79
10:2O:7:TYR:HE1	10:2O:20:MET:HB2	1.45	0.79
19:2X:44:GLU:OE2	59:2X:201:HOH:O	2.01	0.79
39:2h:12:ARG:CD	39:2h:26:VAL:HG12	2.12	0.79
44:2m:22:ILE:HB	44:2m:25:ILE:CG2	2.11	0.79
1:1A:193:G:O6	23:11:39:LYS:NZ	2.16	0.79
1:1A:600:A:OP1	1:1A:1300:U:O2'	2.00	0.79
1:1A:2324:C:O4'	6:1G:40:ASN:ND2	2.14	0.79
7:1H:147:ASN:OD1	59:1H:301:HOH:O	1.99	0.79
10:1O:78:ARG:NH2	15:1T:73:GLU:OE1	2.14	0.79
32:1a:1266:C:OP2	32:1a:1267:A:O2'	2.00	0.79
44:1m:4:ILE:HD13	44:1m:9:ILE:H	1.46	0.79
48:1q:66:SER:O	48:1q:70:ARG:NH1	2.15	0.79
1:2A:448:A:OP2	59:2A:3682:HOH:O	2.01	0.79
1:2A:863:C:O2'	1:2A:885:U:OP1	1.99	0.79
1:2A:1312:U:OP1	59:2A:3678:HOH:O	2.00	0.79
1:2A:2147:A:H4'	1:2A:2148:G:O5'	1.81	0.79
6:2G:57:ALA:HB2	6:2G:90:LEU:HD11	1.64	0.79
23:21:48:LYS:O	59:21:201:HOH:O	2.00	0.79
32:2a:1387:5MC:O2	32:2a:1497:MA6:O2'	1.99	0.79
33:2b:96:ARG:HH11	33:2b:98:LEU:HD22	1.48	0.79
33:2b:105:PHE:O	33:2b:109:SER:N	2.15	0.79
34:2c:73:PRO:HB3	34:2c:103:VAL:HG11	1.65	0.79
1:1A:122:G:H5'	29:17:14:LYS:HG2	1.63	0.79
1:1A:236:G:O2'	1:1A:2443:A:OP1	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2608:G:OP1	59:1A:4033:HOH:O	2.01	0.79
6:1G:107:LEU:HD11	6:1G:178:PHE:CE1	2.18	0.79
32:1a:493:A:N3	32:1a:527:C:O2'	2.15	0.79
38:1g:138:LYS:NZ	38:1g:142:GLU:OE2	2.16	0.79
40:1i:10:ARG:HB3	40:1i:72:GLY:O	1.82	0.79
50:1s:41:VAL:HG12	50:1s:44:MET:HG3	1.65	0.79
1:2A:1247:G:OP2	1:2A:1248:A:O2'	2.01	0.79
1:2A:2150:C:O2	1:2A:2180:G:N1	2.13	0.79
3:2D:155:LEU:HD23	3:2D:177:LEU:HD22	1.63	0.79
17:2V:72:VAL:CG1	17:2V:85:LYS:HB3	2.12	0.79
21:2Z:13:GLU:HB3	21:2Z:18:LEU:HD11	1.64	0.79
32:2a:1145:C:H42	32:2a:1156:G:H1	1.30	0.79
37:2f:89:MET:HE1	49:2r:72:ARG:HG3	1.63	0.79
1:1A:97:U:OP1	1:1A:98:G:O2'	1.99	0.79
1:1A:1379:G:OP2	59:1A:4019:HOH:O	2.00	0.79
1:1A:2210:U:H2'	1:1A:2211:G:H5'	1.62	0.79
32:1a:623:G:H2'	32:1a:624:A:H8	1.48	0.79
1:2A:132:G:O6	59:2A:3687:HOH:O	2.01	0.79
1:2A:945:A:H2'	1:2A:946:A:O4'	1.83	0.79
1:2A:1477:C:N4	1:2A:1607:G:O6	2.15	0.79
1:2A:2306:C:N4	1:2A:2348:G:O6	2.15	0.79
1:2A:2508:A:N1	59:2A:3860:HOH:O	2.15	0.79
1:2A:2693:U:O2'	15:2T:58:ASN:ND2	2.15	0.79
32:2a:1277:G:O2'	44:2m:14:ARG:NH1	2.16	0.79
36:2e:34:VAL:CG1	36:2e:62:ALA:HB1	2.13	0.79
45:2n:24:CYS:N	45:2n:29:ARG:O	2.16	0.79
1:1A:1169:C:OP1	59:1A:4007:HOH:O	1.99	0.79
1:1A:1684:C:O2	1:1A:2709:U:O2'	2.00	0.79
1:1A:2163:C:N3	1:1A:2170:G:O6	2.16	0.79
40:1i:81:ILE:HG13	40:1i:82:ALA:H	1.47	0.79
47:1p:59:TRP:HA	47:1p:62:VAL:HG12	1.65	0.79
1:2A:471:G:OP1	16:2U:3:ARG:NH1	2.16	0.79
1:2A:1313:A:OP1	59:2A:3683:HOH:O	2.01	0.79
1:2A:1359:C:OP1	59:2A:3612:HOH:O	1.99	0.79
3:2D:218:ARG:HB3	3:2D:219:PRO:HD2	1.64	0.79
5:2F:107:LYS:NZ	5:2F:205:ARG:O	2.14	0.79
14:2S:3:ARG:HH12	14:2S:9:ARG:HH12	1.28	0.79
32:2a:1470:A:H5"	43:2l:47:LYS:CG	2.13	0.79
38:2g:15:ASP:OD1	38:2g:19:GLY:N	2.16	0.79
1:1A:848:A:OP1	59:1A:4004:HOH:O	1.99	0.79
1:1A:1109:C:H3'	1:1A:1110:U:C5'	2.08	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1378:C:OP2	59:1A:4009:HOH:O	2.00	0.79
1:1A:1402:U:O4	59:1A:4034:HOH:O	2.01	0.79
1:1A:2003:C:O2	59:1A:4000:HOH:O	1.99	0.79
1:1A:2049:U:O4	59:1A:3971:HOH:O	2.01	0.79
1:1A:2754:C:H42	1:1A:2774:G:H1	1.27	0.79
35:1d:82:ALA:HA	35:1d:85:LYS:HB3	1.65	0.79
1:2A:658:C:H2'	1:2A:659:C:C6	2.18	0.79
1:2A:783:C:OP1	59:2A:3681:HOH:O	2.01	0.79
6:2G:111:LEU:HB2	6:2G:112:PRO:HD3	1.64	0.79
8:2I:4:ILE:HG12	8:2I:18:VAL:HG22	1.65	0.79
32:2a:971:G:O2'	32:2a:972:A:N7	2.14	0.79
32:2a:1055:G:O6	32:2a:1067:G:N2	2.15	0.79
32:2a:1117:G:H1	32:2a:1123:C:H42	1.31	0.79
38:2g:137:LYS:O	38:2g:141:VAL:N	2.16	0.79
1:1A:361:G:OP2	59:1A:3991:HOH:O	1.98	0.79
1:1A:1127:U:O4	1:1A:1131:A:N1	2.15	0.79
1:1A:2262:OMG:HM22	1:1A:2263:G:H5'	1.65	0.79
1:1A:2447:G:O6	59:1A:4028:HOH:O	2.01	0.79
1:1A:2848:G:H5'	13:1R:46:GLY:HA2	1.65	0.79
3:1D:69:ARG:HE	3:1D:130:ALA:HB2	1.48	0.79
16:1U:37:GLU:OE1	59:1U:301:HOH:O	2.01	0.79
35:1d:178:VAL:HG12	35:1d:179:GLU:H	1.47	0.79
41:1j:32:ALA:HB3	41:1j:76:ASN:CB	2.12	0.79
1:2A:396:G:OP2	59:2A:3682:HOH:O	2.01	0.79
1:2A:1397:U:OP2	59:2A:3677:HOH:O	2.00	0.79
1:2A:1870:G:OP2	59:2A:3684:HOH:O	2.01	0.79
1:2A:2623:C:OP2	27:25:2:ALA:N	2.15	0.79
1:2A:2702:C:OP1	59:2A:3673:HOH:O	2.00	0.79
21:2Z:108:PRO:HG3	21:2Z:141:VAL:HB	1.62	0.79
32:2a:905:G:H2'	32:2a:906:G:H8	1.48	0.79
34:2c:152:ILE:HD11	34:2c:199:LYS:CE	2.12	0.79
39:2h:52:ASP:OD1	39:2h:56:LYS:N	2.16	0.79
1:1A:10:G:H2'	1:1A:11:U:C5'	2.12	0.78
1:1A:113:C:O2'	1:1A:123:A:N3	2.15	0.78
1:1A:582:C:H4'	16:1U:52:ARG:NH1	1.98	0.78
2:1B:58:A:OP2	59:1B:301:HOH:O	1.99	0.78
4:1E:149:ARG:O	59:1E:404:HOH:O	2.00	0.78
21:1Z:115:GLY:HA3	21:1Z:146:ILE:HD11	1.65	0.78
33:1b:212:GLN:NE2	33:1b:234:PRO:O	2.16	0.78
42:1k:66:LEU:HD21	42:1k:97:ALA:HB1	1.65	0.78
50:1s:63:THR:OG1	50:1s:65:ASN:OD1	2.02	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:956:A:OP1	59:2A:3685:HOH:O	2.01	0.78
20:2Y:97:ARG:HB2	20:2Y:106:LEU:HB2	1.64	0.78
32:2a:754:C:OP1	59:2a:1905:HOH:O	2.00	0.78
32:2a:1006:C:H3'	32:2a:1007:C:H5"	1.64	0.78
1:1A:1183:G:OP1	59:1A:4022:HOH:O	2.00	0.78
1:1A:2634:G:OP1	59:1A:4016:HOH:O	2.00	0.78
32:1a:572:G:OP2	59:1a:2010:HOH:O	2.01	0.78
32:1a:611:G:H2'	32:1a:612:G:C8	2.18	0.78
32:1a:975:U:H3	32:1a:1027:A:H61	1.31	0.78
33:1b:189:ASP:O	33:1b:191:ASP:N	2.16	0.78
38:1g:50:ILE:CG2	38:1g:121:ALA:HB1	2.13	0.78
1:2A:777:C:OP1	59:2A:3697:HOH:O	2.01	0.78
1:2A:2123:U:H2'	1:2A:2124:C:H6	1.49	0.78
1:2A:2158:C:O2	1:2A:2175:G:N1	2.15	0.78
32:2a:843:A:N3	32:2a:896:A:O2'	2.17	0.78
40:2i:16:ARG:HB2	40:2i:64:THR:CG2	2.11	0.78
41:2j:46:ARG:HG2	41:2j:64:GLU:HB3	1.65	0.78
41:2j:79:ARG:O	41:2j:83:GLU:N	2.13	0.78
1:1A:192:A:N1	59:1A:4314:HOH:O	2.15	0.78
1:1A:1401:G:OP2	59:1A:4030:HOH:O	2.01	0.78
31:19:27:CYS:O	59:19:201:HOH:O	2.00	0.78
32:1a:458:A:H4'	47:1p:80:PHE:O	1.83	0.78
32:1a:1052:C:OP2	59:1a:2008:HOH:O	2.01	0.78
43:1l:53:ARG:HD2	43:1l:93:LEU:HD11	1.63	0.78
1:2A:1656:C:OP1	59:2A:3674:HOH:O	2.00	0.78
1:2A:1929:C:H42	1:2A:1943:G:H1	1.29	0.78
6:2G:12:TYR:HA	6:2G:16:ARG:HG3	1.64	0.78
12:2Q:137:TYR:HE2	21:2Z:83:PRO:HG3	1.46	0.78
32:2a:232:G:OP1	48:2q:40:LYS:NZ	2.15	0.78
32:2a:951:G:H3'	32:2a:952:A:H5"	1.65	0.78
44:2m:52:GLU:HG2	44:2m:55:ARG:NH2	1.97	0.78
50:2s:52:TYR:HB2	50:2s:57:HIS:ND1	1.97	0.78
1:1A:552:A:O2'	1:1A:553:A:H5"	1.83	0.78
1:1A:1097:C:N4	1:1A:1152:G:H1	1.81	0.78
1:1A:1873:C:H5'	3:1D:253:GLN:OE1	1.82	0.78
1:1A:2648:U:H5"	4:1E:82:ARG:NH1	1.98	0.78
4:1E:125:GLY:O	59:1E:405:HOH:O	2.01	0.78
32:1a:161:G:H2'	32:1a:162:G:C8	2.17	0.78
32:1a:493:A:OP2	59:1a:2011:HOH:O	2.02	0.78
39:1h:39:LEU:HG	39:1h:45:ILE:HG23	1.66	0.78
50:1s:69:HIS:HB3	50:1s:73:GLU:OE1	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:47:A:N6	1:2A:117:U:O4	2.13	0.78
1:2A:886:C:N4	1:2A:982:G:O6	2.16	0.78
1:2A:1275:C:H2'	1:2A:1276:G:H8	1.48	0.78
1:2A:1857:C:O2'	1:2A:1991:A:N3	2.15	0.78
1:2A:2317:C:H3'	1:2A:2318:G:H2'	1.64	0.78
1:2A:2626:U:OP1	59:2A:3691:HOH:O	2.01	0.78
6:2G:68:PRO:CG	6:2G:90:LEU:HD13	2.12	0.78
21:2Z:69:THR:HG22	21:2Z:90:VAL:HA	1.66	0.78
32:2a:521:G:H5"	43:2l:113:ARG:HH12	1.48	0.78
1:1A:720:G:OP2	59:1A:4050:HOH:O	2.02	0.78
1:1A:1672:G:OP1	59:1A:4047:HOH:O	2.02	0.78
27:15:10:LYS:O	59:15:201:HOH:O	2.00	0.78
32:1a:635:C:OP1	59:1a:2012:HOH:O	2.02	0.78
32:1a:928:U:O2	32:1a:1213:G:N2	2.12	0.78
33:1b:15:VAL:HG23	33:1b:209:ARG:CD	2.13	0.78
1:2A:168:G:N2	1:2A:203:G:O6	2.16	0.78
1:2A:277:G:H2'	1:2A:278:G:H8	1.49	0.78
1:2A:346:G:H2'	5:2F:169:ASN:OD1	1.83	0.78
1:2A:1054:A:OP2	59:2A:3614:HOH:O	2.01	0.78
1:2A:1358:U:OP1	59:2A:3680:HOH:O	2.01	0.78
1:2A:1702:C:OP1	59:2A:3689:HOH:O	2.01	0.78
2:2B:72:G:OP2	55:2B:210:MPD:O4	2.01	0.78
5:2F:29:ASN:HB3	5:2F:112:MET:HE1	1.65	0.78
13:2R:87:TYR:HD1	13:2R:90:ARG:HD2	1.48	0.78
32:2a:452:C:H2'	32:2a:453:C:H5'	1.65	0.78
32:2a:1273:G:H4'	40:2i:39:GLY:HA3	1.66	0.78
32:2a:1286:G:H1'	32:2a:1315:A:H61	1.48	0.78
32:2a:1357:A:O2'	38:2g:28:ASN:HB3	1.81	0.78
40:2i:30:GLY:O	40:2i:31:GLN:HG3	1.84	0.78
1:1A:478:C:OP1	59:1A:4014:HOH:O	2.00	0.78
1:1A:1003:A:OP1	59:1A:4037:HOH:O	2.01	0.78
1:1A:2853:G:O6	59:1A:4053:HOH:O	2.02	0.78
3:1D:21:PHE:O	3:1D:24:ILE:N	2.17	0.78
6:1G:16:ARG:HB2	6:1G:17:PRO:HD3	1.66	0.78
7:1H:97:ARG:NE	7:1H:104:GLU:OE2	2.15	0.78
17:1V:40:LEU:HB2	17:1V:46:VAL:HG12	1.64	0.78
26:14:28:LYS:HD2	26:14:31:ILE:HD11	1.65	0.78
26:14:62:ARG:CD	26:14:65:ASP:HB2	2.14	0.78
30:18:28:GLY:O	30:18:36:LYS:NZ	2.17	0.78
32:1a:1102:C:H2'	32:1a:1103:G:H8	1.48	0.78
32:1a:1198:G:H5"	45:1n:5:ALA:HB2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:1g:70:LYS:O	38:1g:138:LYS:NZ	2.12	0.78
1:2A:833:U:OP1	59:2A:3698:HOH:O	2.01	0.78
1:2A:1490:A:OP1	59:2A:3704:HOH:O	2.02	0.78
1:2A:2209:C:H3'	1:2A:2210:U:H5"	1.65	0.78
1:2A:2360:G:OP1	59:2A:3696:HOH:O	2.01	0.78
28:26:10:LEU:HD13	28:26:19:ARG:HD3	1.66	0.78
51:2t:32:ALA:O	51:2t:36:LEU:N	2.15	0.78
1:1A:406:U:OP2	59:1A:4045:HOH:O	2.01	0.78
1:1A:830:A:OP2	59:1A:4029:HOH:O	2.01	0.78
1:1A:1171:A:OP1	59:1A:4060:HOH:O	2.02	0.78
1:1A:1218:A:H4'	1:1A:1219:U:OP1	1.82	0.78
1:1A:1322:G:O3'	59:1A:4042:HOH:O	2.01	0.78
1:1A:1699:G:O6	59:1A:4032:HOH:O	2.01	0.78
1:1A:2650:A:OP2	59:1A:4036:HOH:O	2.01	0.78
16:1U:32:PHE:CZ	16:1U:36:ARG:HD2	2.19	0.78
32:1a:982:G:H2'	32:1a:983:A:H4'	1.64	0.78
39:1h:86:ILE:HG13	39:1h:133:LEU:HD22	1.64	0.78
42:1k:61:ALA:O	42:1k:65:ALA:N	2.14	0.78
1:2A:1809:U:OP2	59:2A:3700:HOH:O	2.01	0.78
1:2A:2293:G:H4'	1:2A:2400:G:O2'	1.84	0.78
1:2A:2586:C:H2'	1:2A:2589:G:O6	1.84	0.78
6:2G:15:VAL:HG13	6:2G:175:LEU:HD23	1.65	0.78
32:2a:482:U:O2	32:2a:531:A:N6	2.17	0.78
32:2a:517:A:O2'	32:2a:519:A:OP2	2.00	0.78
32:2a:1356:G:O3'	38:2g:36:LYS:NZ	2.17	0.78
35:2d:20:TYR:HD1	35:2d:26:CYS:HB3	1.49	0.78
1:1A:401:C:OP1	59:1A:4021:HOH:O	2.00	0.78
1:1A:1019:C:OP1	59:1A:4027:HOH:O	2.01	0.78
1:1A:1108:G:H1	1:1A:1120:C:N4	1.82	0.78
1:1A:2155:A:N7	1:1A:2178:G:O2'	2.15	0.78
40:1i:16:ARG:HB2	40:1i:64:THR:CG2	2.14	0.78
1:2A:30:C:OP1	59:2A:3672:HOH:O	2.00	0.78
1:2A:488:G:OP1	59:2A:3688:HOH:O	2.01	0.78
1:2A:884:C:OP1	59:2A:3695:HOH:O	2.01	0.78
1:2A:1710:A:OP1	59:2A:3686:HOH:O	2.01	0.78
1:2A:1941:OMC:HM22	1:2A:1942:G:C5'	2.11	0.78
1:2A:2650:A:O2'	9:2N:97:ARG:NH2	2.17	0.78
5:2F:181:LEU:HD11	5:2F:186:ILE:HD11	1.65	0.78
8:2I:79:ILE:HG22	8:2I:81:VAL:HG13	1.64	0.78
18:2W:19:LEU:HB3	27:25:25:LEU:CD1	2.14	0.78
42:2k:43:SER:CB	42:2k:68:ALA:HB2	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:110:ASP:HB3	49:2r:85:LEU:HB3	1.65	0.78
1:1A:860:C:OP2	59:1A:4041:HOH:O	2.01	0.78
1:1A:993:C:OP2	59:1A:4049:HOH:O	2.02	0.78
1:1A:2027:C:O2'	1:1A:2832:A:N3	2.17	0.78
1:1A:2150:C:O2	1:1A:2180:G:N1	2.16	0.78
1:1A:2758:U:H2'	1:1A:2759:G:H5'	1.66	0.78
21:1Z:58:VAL:HG12	21:1Z:68:PRO:HA	1.65	0.78
24:12:64:LEU:HD21	24:12:68:ARG:HE	1.48	0.78
27:15:17:ASP:OD2	59:15:202:HOH:O	2.02	0.78
32:1a:560:G:OP2	59:1a:2009:HOH:O	2.01	0.78
32:1a:828:U:C2'	32:1a:829:G:H5"	2.14	0.78
33:1b:35:GLU:HA	33:1b:41:ILE:HG12	1.63	0.78
44:1m:22:ILE:CG2	44:1m:25:ILE:HD12	2.14	0.78
49:1r:66:LEU:O	49:1r:69:THR:N	2.17	0.78
11:2P:64:LYS:O	30:28:30:ARG:NH2	2.17	0.78
40:2i:51:ARG:HG3	40:2i:56:LEU:HD21	1.66	0.78
44:2m:39:ILE:CD1	44:2m:56:LEU:HB2	2.14	0.78
44:2m:73:GLU:O	44:2m:77:ASN:ND2	2.17	0.78
1:1A:1354:G:O2'	1:1A:1656:C:O2'	1.97	0.78
1:1A:1886:G:OP2	59:1A:4044:HOH:O	2.01	0.78
1:1A:1941:OMC:HM22	1:1A:1942:G:C5'	2.13	0.78
1:1A:2494:C:O2	59:1A:4026:HOH:O	2.01	0.78
9:1N:127:ASP:O	59:1N:301:HOH:O	2.02	0.78
32:1a:295:G:O6	59:1a:2014:HOH:O	2.02	0.78
32:1a:352:A:N7	59:1a:2055:HOH:O	2.16	0.78
32:1a:445:G:H5"	32:1a:446:A:H3'	1.64	0.78
32:1a:592:A:OP2	59:1a:2017:HOH:O	2.02	0.78
33:1b:59:GLU:OE2	33:1b:221:LEU:HD22	1.84	0.78
1:2A:183:A:OP2	59:2A:3710:HOH:O	2.02	0.78
1:2A:810:A:H5'	3:2D:210:GLY:HA2	1.65	0.78
1:2A:2117:U:H3	1:2A:2214:G:H1	0.82	0.78
1:2A:2668:A:O3'	7:2H:160:LYS:NZ	2.18	0.78
3:2D:109:ASP:N	3:2D:195:ALA:O	2.16	0.78
37:2f:2:ARG:HB2	37:2f:4:TYR:CE1	2.19	0.78
50:2s:40:ILE:HB	50:2s:67:VAL:O	1.84	0.78
1:1A:1231:G:OP2	59:1A:4064:HOH:O	2.02	0.77
1:1A:2554:G:OP2	59:1A:4070:HOH:O	2.02	0.77
1:1A:2703:C:O2	1:1A:2856:U:O2'	2.01	0.77
4:1E:48:GLN:NE2	4:1E:78:LEU:HD23	1.98	0.77
32:1a:556:A:OP1	59:1a:2015:HOH:O	2.02	0.77
1:2A:186:C:OP2	59:2A:3705:HOH:O	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:610:U:OP2	59:2A:3676:HOH:O	2.00	0.77
1:2A:1270:G:OP1	17:2V:69:LYS:NZ	2.13	0.77
1:2A:2650:A:OP2	59:2A:3692:HOH:O	2.01	0.77
6:2G:112:PRO:HG3	26:24:43:TYR:CE2	2.19	0.77
9:2N:29:LYS:O	9:2N:32:THR:N	2.17	0.77
32:2a:905:G:H1	32:2a:1373:U:H3	0.83	0.77
1:1A:2754:C:OP1	31:19:35:ARG:NH1	2.17	0.77
5:1F:86:GLY:O	59:1F:402:HOH:O	2.02	0.77
6:1G:126:ASP:HB2	6:1G:130:ASN:HB2	1.66	0.77
32:1a:397:C:O2'	32:1a:605:A:N3	2.16	0.77
44:1m:15:VAL:HG11	44:1m:48:LEU:HD21	1.66	0.77
1:2A:1284:G:H2'	1:2A:1285:U:O4'	1.84	0.77
1:2A:2136:G:H21	1:2A:2192:A:H61	1.31	0.77
1:2A:2601:A:O3'	3:2D:239:ARG:NH2	2.17	0.77
3:2D:169:GLU:HG2	3:2D:184:LYS:NZ	2.00	0.77
32:2a:30:G:N2	32:2a:538:C:O2	2.17	0.77
32:2a:453:C:H2'	32:2a:454:G:O4'	1.84	0.77
32:2a:1486:G:H1	32:2a:1505:C:H42	1.32	0.77
33:2b:78:GLN:HA	33:2b:94:ASN:OD1	1.85	0.77
40:2i:42:ARG:HH21	40:2i:71:SER:HG	1.30	0.77
40:2i:67:GLY:O	40:2i:73:GLN:NE2	2.17	0.77
1:1A:387:A:H2'	1:1A:388:G:H8	1.49	0.77
1:1A:1110:U:O2'	1:1A:1111:U:O4'	2.02	0.77
1:1A:1293:G:OP1	59:1A:4078:HOH:O	2.03	0.77
1:1A:1397:U:OP2	59:1A:4052:HOH:O	2.02	0.77
1:1A:1656:C:OP1	59:1A:4075:HOH:O	2.03	0.77
1:1A:1861:G:OP1	59:1A:4065:HOH:O	2.02	0.77
1:1A:2032:U:OP1	59:1A:4058:HOH:O	2.02	0.77
1:1A:2120:U:H3	1:1A:2211:G:H1	1.31	0.77
21:1Z:91:LEU:HD21	21:1Z:130:PRO:HB3	1.66	0.77
32:1a:969:U:H1'	32:1a:970:U:OP2	1.84	0.77
32:1a:1009:C:N4	32:1a:1014:G:H1	1.83	0.77
32:1a:1298:G:N2	32:1a:1300:A:H3'	1.99	0.77
40:1i:84:ALA:O	40:1i:87:GLN:HG2	1.84	0.77
1:2A:1739:U:O2'	3:2D:14:ARG:NH1	2.18	0.77
1:2A:2319:G:O6	1:2A:2322:A:N6	2.18	0.77
1:2A:2648:U:O2	1:2A:2788:A:N6	2.16	0.77
1:2A:2858:U:O4	15:2T:23:ARG:NH1	2.16	0.77
11:2P:18:ARG:O	59:2P:303:HOH:O	2.01	0.77
11:2P:32:THR:O	59:2P:302:HOH:O	2.01	0.77
18:2W:22:ASP:OD1	18:2W:25:ARG:NH1	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:720:C:OP1	49:2r:72:ARG:NH2	2.15	0.77
32:2a:1219:C:O2'	32:2a:1282:G:N2	2.15	0.77
32:2a:1478:A:OP2	59:2a:1907:HOH:O	2.02	0.77
36:2e:19:MET:SD	36:2e:24:ARG:HB3	2.24	0.77
1:1A:66:G:O6	59:1A:4054:HOH:O	2.02	0.77
1:1A:154:C:N4	1:1A:159:G:O6	2.18	0.77
1:1A:179:A:O2'	1:1A:724:C:O2	2.02	0.77
1:1A:244:A:OP2	59:1A:4069:HOH:O	2.02	0.77
1:1A:426:G:O6	59:1A:4035:HOH:O	2.01	0.77
1:1A:994:G:OP2	59:1A:4056:HOH:O	2.02	0.77
1:1A:1070:G:O2'	59:1A:3939:HOH:O	2.02	0.77
1:1A:1084:G:O6	1:1A:1161:C:N4	2.17	0.77
1:1A:1992:A:OP2	59:1A:4038:HOH:O	2.01	0.77
1:1A:2722:A:OP2	59:1A:3936:HOH:O	2.01	0.77
8:1I:23:PRO:HB3	8:1I:27:ARG:HH21	1.47	0.77
16:1U:79:PHE:CD1	16:1U:83:LEU:HD13	2.18	0.77
32:1a:1235:G:OP1	41:1j:46:ARG:NH1	2.17	0.77
39:1h:4:ASP:OD2	39:1h:85:ARG:NH1	2.17	0.77
41:1j:21:GLN:HE21	41:1j:25:GLU:HG3	1.48	0.77
42:1k:43:SER:HB3	42:1k:68:ALA:HB2	1.67	0.77
1:2A:814:G:O2'	1:2A:1424:A:N1	2.16	0.77
1:2A:1282:A:OP1	59:2A:3712:HOH:O	2.02	0.77
1:2A:1372:C:OP2	59:2A:3690:HOH:O	2.01	0.77
1:2A:2217:C:OP2	59:2A:3709:HOH:O	2.02	0.77
1:2A:2346:A:OP1	14:2S:13:ARG:HB3	1.83	0.77
10:2O:7:TYR:CE1	10:2O:20:MET:HB2	2.19	0.77
32:2a:233:C:H4'	48:2q:25:ARG:HH12	1.49	0.77
1:1A:185:A:OP1	59:1A:3916:HOH:O	2.01	0.77
1:1A:346:G:H1'	1:1A:1249:U:O2	1.84	0.77
1:1A:795:C:OP2	59:1A:4048:HOH:O	2.02	0.77
1:1A:798:A:H3'	29:17:1:MET:CE	2.14	0.77
1:1A:2038:U:OP2	59:1A:4040:HOH:O	2.01	0.77
6:1G:173:LEU:HB3	6:1G:178:PHE:CD2	2.18	0.77
11:1P:112:LEU:HD22	11:1P:127:ALA:HB2	1.66	0.77
17:1V:52:VAL:CG2	17:1V:55:ALA:HB3	2.14	0.77
18:1W:77:ASP:OD1	59:1W:3101:HOH:O	2.03	0.77
32:1a:1045:U:H2'	32:1a:1046:C:C6	2.19	0.77
35:1d:78:LEU:O	35:1d:81:GLU:HB3	1.85	0.77
1:2A:592:G:OP1	59:2A:3702:HOH:O	2.02	0.77
1:2A:2224:U:O4'	3:2D:151:LYS:HE2	1.85	0.77
32:2a:109:G:H1'	32:2a:110:A:OP2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:563:G:O6	32:2a:746:C:N4	2.14	0.77
32:2a:1141:C:O2'	33:2b:133:LYS:HE2	1.84	0.77
32:2a:1436:G:OP1	51:2t:35:THR:OG1	2.02	0.77
34:2c:71:ALA:C	34:2c:73:PRO:HD3	2.09	0.77
46:2o:67:LEU:HB3	46:2o:78:TYR:HE1	1.46	0.77
51:2t:47:GLY:HA2	51:2t:48:LYS:CB	2.14	0.77
1:1A:10:G:C2'	1:1A:11:U:H5"	2.13	0.77
1:1A:2027:C:OP1	59:1A:4025:HOH:O	2.01	0.77
18:1W:77:ASP:OD2	59:1W:3102:HOH:O	2.03	0.77
32:1a:389:A:OP1	59:1a:2016:HOH:O	2.02	0.77
32:1a:745:G:O6	59:1a:2019:HOH:O	2.03	0.77
32:1a:964:A:H2'	32:1a:965:G:O4'	1.85	0.77
32:1a:1073:U:N3	32:1a:1078:U:O4	2.17	0.77
50:1s:40:ILE:HB	50:1s:67:VAL:O	1.85	0.77
1:2A:365:G:O6	59:2A:3713:HOH:O	2.02	0.77
1:2A:2095:U:HO2'	1:2A:2608:G:HO2'	0.98	0.77
11:2P:63:PRO:HB2	30:28:30:ARG:NH2	2.00	0.77
32:2a:54:A:OP2	59:2a:1911:HOH:O	2.03	0.77
38:2g:46:ALA:HA	38:2g:49:ILE:HD12	1.65	0.77
11:1P:112:LEU:HD22	11:1P:127:ALA:CB	2.13	0.77
14:1S:28:VAL:O	59:1S:301:HOH:O	2.02	0.77
15:1T:55:ASN:H	15:1T:59:THR:HG22	1.49	0.77
26:14:16:CYS:HB2	26:14:36:CYS:HB3	1.67	0.77
32:1a:139:G:O6	32:1a:173:C:N4	2.17	0.77
35:1d:61:LYS:HG3	35:1d:75:PHE:CE2	2.20	0.77
1:2A:471:G:OP1	59:2A:3701:HOH:O	2.02	0.77
1:2A:1268:G:N2	1:2A:1271:A:OP2	2.16	0.77
1:2A:1368:U:OP1	18:2W:98:LYS:NZ	2.16	0.77
1:2A:1812:C:OP1	59:2A:3693:HOH:O	2.01	0.77
10:2O:88:ASN:O	10:2O:91:LEU:N	2.15	0.77
30:28:34:TRP:O	59:28:8102:HOH:O	2.00	0.77
32:2a:529:C:H2'	32:2a:530:G:O4'	1.84	0.77
32:2a:583:C:O2'	39:2h:130:GLY:N	2.17	0.77
32:2a:750:A:OP2	59:2a:1906:HOH:O	2.02	0.77
32:2a:810:C:H2'	32:2a:811:U:H6	1.49	0.77
32:2a:889:U:OP2	43:2l:97:ARG:NH2	2.17	0.77
49:2r:22:VAL:HG11	49:2r:43:PHE:CD1	2.19	0.77
1:1A:590:U:O4	59:1A:3933:HOH:O	2.01	0.77
1:1A:1272:G:N1	59:1A:4107:HOH:O	2.12	0.77
1:1A:1370:G:OP1	1:1A:1693:G:O2'	2.02	0.77
1:1A:1540:A:OP2	59:1A:4091:HOH:O	2.03	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2418:G:OP1	59:1A:4072:HOH:O	2.03	0.77
32:1a:581:G:OP2	59:1a:2021:HOH:O	2.03	0.77
32:1a:881:G:OP1	59:1a:2020:HOH:O	2.03	0.77
32:1a:942:A:N3	32:1a:947:A:O2'	2.15	0.77
35:1d:18:LYS:NZ	58:1d:501:SF4:S2	2.58	0.77
1:2A:2054:A:O2'	1:2A:2056:G:OP2	2.00	0.77
1:2A:2402:G:OP1	59:2A:3694:HOH:O	2.01	0.77
2:2B:73:A:OP2	59:2B:302:HOH:O	2.01	0.77
6:2G:12:TYR:HA	6:2G:16:ARG:CG	2.15	0.77
15:2T:85:LYS:NZ	15:2T:87:ASP:OD2	2.18	0.77
32:2a:1210:C:OP1	44:2m:115:LYS:N	2.18	0.77
32:2a:1250:A:O2'	52:2u:19:GLY:HA2	1.85	0.77
1:1A:117:U:OP2	59:1A:4043:HOH:O	2.01	0.77
1:1A:166:G:OP2	59:1A:4051:HOH:O	2.02	0.77
1:1A:877:G:OP1	59:1A:4081:HOH:O	2.03	0.77
1:1A:930:C:N4	1:1A:937:G:O6	2.18	0.77
1:1A:1963:5MC:OP2	1:1A:1964:U:O2'	2.00	0.77
1:1A:2158:C:H42	1:1A:2175:G:H1	0.81	0.77
1:1A:2366:C:H1'	22:10:39:ARG:HH21	1.49	0.77
2:1B:2:C:H2'	2:1B:3:C:H6	1.49	0.77
4:1E:77:ILE:HD11	4:1E:195:LEU:HD22	1.67	0.77
8:1I:1:MET:HG3	8:1I:23:PRO:HG3	1.66	0.77
32:1a:73:C:N4	32:1a:91:G:H1	1.83	0.77
32:1a:744:G:H2'	32:1a:745:G:H5'	1.67	0.77
32:1a:954:G:OP1	45:1n:31:ARG:HB3	1.85	0.77
32:1a:1218:A:N6	32:1a:1319:G:O6	2.18	0.77
1:2A:492:G:HO2'	1:2A:842:C:HO2'	1.25	0.77
1:2A:1041:A:H4'	16:2U:91:ASP:OD2	1.85	0.77
1:2A:1496:G:H1	1:2A:1508:C:H42	1.32	0.77
1:2A:1698:A:OP2	59:2A:3719:HOH:O	2.03	0.77
1:2A:2051:A:H5"	1:2A:2052:A:OP1	1.85	0.77
1:2A:2340:G:H2'	1:2A:2341:G:C8	2.20	0.77
1:2A:2366:C:H1'	22:20:39:ARG:HH21	1.49	0.77
11:2P:56:SER:OG	11:2P:61:ARG:HD2	1.85	0.77
21:2Z:71:VAL:HG22	21:2Z:88:PHE:CE1	2.20	0.77
32:2a:722:C:OP1	37:2f:2:ARG:NH1	2.17	0.77
32:2a:1355:U:H5"	40:2i:71:SER:HB3	1.67	0.77
33:2b:189:ASP:HB3	33:2b:205:ASP:H	1.50	0.77
44:2m:23:TYR:CE2	44:2m:70:LEU:HD22	2.19	0.77
45:2n:29:ARG:HD3	45:2n:40:CYS:CB	2.14	0.77
49:2r:26:LEU:HD21	49:2r:39:VAL:HG13	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:418:C:OP1	59:1A:4008:HOH:O	2.02	0.77
1:1A:437:G:OP1	59:1A:4072:HOH:O	2.02	0.77
1:1A:1101:G:H5"	1:1A:1102:A:O4'	1.84	0.77
1:1A:2459:A:O5'	59:1A:4076:HOH:O	2.03	0.77
12:1Q:44:ALA:HB2	12:1Q:70:PRO:HG3	1.67	0.77
16:1U:29:SER:O	59:1U:302:HOH:O	2.02	0.77
30:18:22:VAL:CG1	30:18:50:LEU:HD12	2.14	0.77
32:1a:1389:U:O2	32:1a:1495:G:N2	2.18	0.77
38:1g:104:LEU:O	38:1g:108:ALA:N	2.18	0.77
41:1j:50:ILE:HG12	41:1j:60:ARG:HD3	1.65	0.77
1:2A:1386:U:OP2	1:2A:1439:U:O2'	2.03	0.77
1:2A:2071:C:OP2	59:2A:3706:HOH:O	2.02	0.77
6:2G:4:ASP:OD2	6:2G:9:ARG:NH2	2.18	0.77
6:2G:39:ILE:HB	6:2G:92:VAL:CG1	2.15	0.77
21:2Z:48:PHE:HD1	21:2Z:52:SER:HA	1.47	0.77
32:2a:1434:G:O6	51:2t:54:LYS:NZ	2.13	0.77
44:2m:34:LEU:HD13	44:2m:41:PRO:CB	2.15	0.77
47:2p:58:TYR:O	47:2p:61:SER:OG	2.01	0.77
1:1A:180:C:OP1	59:1A:4031:HOH:O	2.01	0.76
1:1A:473:U:OP2	59:1A:4077:HOH:O	2.03	0.76
1:1A:558:U:O4	59:1A:4073:HOH:O	2.02	0.76
1:1A:584:U:OP2	59:1A:4063:HOH:O	2.02	0.76
1:1A:2517:U:OP1	59:1A:4067:HOH:O	2.02	0.76
32:1a:973:C:N3	32:1a:1029:A:O2'	2.17	0.76
32:1a:1470:A:OP1	43:1l:47:LYS:HG3	1.84	0.76
1:2A:774:G:H5"	3:2D:13:ARG:HH21	1.50	0.76
1:2A:775:G:O5'	3:2D:208:LYS:NZ	2.18	0.76
1:2A:794:G:OP2	59:2A:3711:HOH:O	2.02	0.76
1:2A:1972:U:O4	59:2A:3703:HOH:O	2.02	0.76
1:2A:2149:C:C3'	1:2A:2150:C:H5"	2.15	0.76
1:2A:2889:C:H2'	1:2A:2890:C:H5'	1.67	0.76
21:2Z:125:LEU:HG	21:2Z:164:ALA:HB3	1.66	0.76
23:21:80:LEU:HD23	23:21:82:LEU:HD21	1.65	0.76
30:28:14:VAL:HG22	30:28:15:LYS:H	1.49	0.76
32:2a:477:G:OP2	59:2a:1912:HOH:O	2.03	0.76
32:2a:1009:C:N3	32:2a:1014:G:N2	2.32	0.76
35:2d:140:VAL:HG12	35:2d:185:PHE:HD2	1.50	0.76
44:2m:25:ILE:HD12	44:2m:29:ARG:CD	2.15	0.76
51:2t:36:LEU:HD12	51:2t:62:LEU:HD22	1.67	0.76
1:1A:607:G:N7	59:1A:4339:HOH:O	2.17	0.76
1:1A:1680:A:OP2	59:1A:4079:HOH:O	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2402:G:OP1	59:1A:4082:HOH:O	2.03	0.76
1:1A:2604:U:O4	59:1A:4071:HOH:O	2.02	0.76
3:1D:206:LEU:O	3:1D:211:ARG:HD3	1.85	0.76
5:1F:188:ARG:NH1	59:1F:410:HOH:O	2.18	0.76
22:10:19:LYS:O	59:10:202:HOH:O	2.03	0.76
33:1b:178:ARG:HG3	39:1h:72:PRO:HA	1.65	0.76
50:1s:51:VAL:HG21	50:1s:71:LEU:HD22	1.67	0.76
1:2A:418:C:OP1	59:2A:3722:HOH:O	2.03	0.76
1:2A:1649:C:OP2	59:2A:3699:HOH:O	2.01	0.76
1:2A:1799:G:O2'	1:2A:1979:C:OP1	2.03	0.76
1:2A:1830:C:OP2	3:2D:183:ARG:NH2	2.17	0.76
1:2A:2027:C:OP2	59:2A:3683:HOH:O	2.03	0.76
1:2A:2537:G:O6	1:2A:2548:U:N3	2.18	0.76
6:2G:39:ILE:N	6:2G:92:VAL:O	2.19	0.76
6:2G:72:ARG:NE	6:2G:87:PRO:HG3	2.00	0.76
7:2H:13:LYS:HB2	7:2H:14:GLY:HA2	1.67	0.76
11:2P:2:LYS:NZ	11:2P:4:SER:OG	2.17	0.76
32:2a:132:C:H2'	32:2a:133:G:H8	1.48	0.76
33:2b:87:ARG:NH1	33:2b:220:ASP:OD1	2.19	0.76
34:2c:40:ARG:NH1	34:2c:55:VAL:O	2.19	0.76
35:2d:133:VAL:HG13	35:2d:135:LEU:HD23	1.67	0.76
37:2f:89:MET:CE	49:2r:72:ARG:HG3	2.15	0.76
42:2k:58:PRO:HB3	42:2k:93:GLN:CB	2.15	0.76
42:2k:58:PRO:HB3	42:2k:93:GLN:HB3	1.66	0.76
45:2n:24:CYS:O	45:2n:28:GLY:N	2.18	0.76
1:1A:257:U:N3	1:1A:396:G:O6	2.12	0.76
1:1A:312:A:H2'	1:1A:313:G:H5'	1.67	0.76
1:1A:831:G:OP2	59:1A:4068:HOH:O	2.02	0.76
1:1A:1612:A:OP1	3:1D:211:ARG:NH1	2.18	0.76
1:1A:1800:G:OP1	59:1A:4023:HOH:O	2.00	0.76
1:1A:1988:C:H2'	1:1A:1989:G:H5'	1.66	0.76
32:1a:690:A:C2'	32:1a:691:C:H5'	2.15	0.76
32:1a:1434:G:O6	51:1t:54:LYS:NZ	2.12	0.76
44:1m:34:LEU:HD13	44:1m:41:PRO:HB3	1.68	0.76
48:1q:43:LEU:HD12	48:1q:68:ARG:HG2	1.66	0.76
1:2A:64:C:N4	1:2A:86:G:O6	2.17	0.76
1:2A:2250:G:OP2	59:2A:3718:HOH:O	2.03	0.76
32:2a:1432:A:H5"	32:2a:1433:C:OP2	1.86	0.76
49:2r:35:ARG:O	49:2r:37:VAL:N	2.18	0.76
1:1A:1032:G:OP2	59:1A:4039:HOH:O	2.01	0.76
1:1A:1417:U:OP1	59:1A:4059:HOH:O	2.02	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2218:U:HO2'	1:1A:2219:A:P	2.08	0.76
1:1A:2260:U:OP2	59:1A:4094:HOH:O	2.03	0.76
1:1A:2865:C:N4	1:1A:2870:G:O6	2.15	0.76
3:1D:26:LYS:NZ	3:1D:28:GLU:O	2.17	0.76
12:1Q:42:ILE:HD12	12:1Q:97:VAL:CG2	2.14	0.76
32:1a:984:A:OP1	32:1a:985:C:N4	2.18	0.76
32:1a:1415:G:N7	59:1a:2058:HOH:O	2.18	0.76
33:1b:231:GLU:HB3	33:1b:232:PRO:HD3	1.67	0.76
8:2I:5:LEU:HD11	8:2I:19:VAL:HG22	1.66	0.76
9:2N:62:VAL:HG11	9:2N:66:LYS:HB2	1.66	0.76
19:2X:65:ARG:CB	19:2X:70:LEU:HD23	2.14	0.76
21:2Z:132:ASN:O	21:2Z:134:PRO:HD3	1.83	0.76
22:20:33:ALA:N	22:20:64:ASP:OD1	2.18	0.76
32:2a:1421:G:O6	32:2a:1441:C:N4	2.15	0.76
38:2g:46:ALA:HB2	38:2g:117:ALA:HB1	1.68	0.76
41:2j:61:GLU:OE2	45:2n:58:LYS:NZ	2.18	0.76
1:1A:1484:A:OP1	59:1A:3987:HOH:O	2.03	0.76
1:1A:1729:C:H42	1:1A:1751:G:H1	1.33	0.76
1:1A:2635:G:O6	59:1A:4046:HOH:O	2.01	0.76
2:1B:72:G:O6	59:1B:303:HOH:O	2.03	0.76
3:1D:85:ASP:OD2	59:1D:403:HOH:O	2.03	0.76
9:1N:123:TYR:HE2	9:1N:129:PRO:HD2	1.50	0.76
20:1Y:14:LEU:HD22	20:1Y:82:PRO:HG3	1.66	0.76
20:1Y:35:TYR:CE2	20:1Y:69:ALA:HB3	2.21	0.76
32:1a:275:A:N6	48:1q:98:LEU:O	2.19	0.76
32:1a:352:A:O2'	32:1a:363:U:O2'	2.02	0.76
32:1a:1145:C:N3	32:1a:1156:G:N2	2.30	0.76
34:1c:24:ALA:HB2	34:1c:32:LEU:HD12	1.68	0.76
35:1d:82:ALA:O	59:1d:601:HOH:O	2.04	0.76
38:1g:79:ARG:HH12	38:1g:82:GLY:HA2	1.51	0.76
50:1s:52:TYR:HB2	50:1s:57:HIS:CE1	2.20	0.76
1:2A:476:C:H5'	59:2A:3613:HOH:O	1.85	0.76
1:2A:1018:G:N7	59:2A:3882:HOH:O	2.19	0.76
1:2A:2053:G:OP2	1:2A:2465:G:O2'	2.03	0.76
1:2A:2618:G:O6	59:2A:3723:HOH:O	2.04	0.76
5:2F:115:ALA:O	5:2F:119:ARG:N	2.13	0.76
5:2F:150:GLY:HA2	5:2F:172:TRP:CD2	2.21	0.76
32:2a:673:C:H42	32:2a:682:G:H1	1.33	0.76
32:2a:981:G:H2'	32:2a:982:G:C8	2.20	0.76
32:2a:1386:C:H1'	32:2a:1478:A:C2	2.20	0.76
35:2d:61:LYS:NZ	35:2d:62:GLN:OE1	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:68:TYR:OH	35:2d:98:GLU:OE2	2.01	0.76
38:2g:16:LEU:HD11	40:2i:42:ARG:HA	1.65	0.76
1:1A:413:U:OP1	59:1A:4085:HOH:O	2.03	0.76
1:1A:853:U:OP2	11:1P:41:ARG:NH2	2.18	0.76
1:1A:2441:A:H2'	1:1A:2441:A:N3	1.98	0.76
7:1H:11:VAL:HG13	7:1H:15:VAL:HG23	1.65	0.76
11:1P:39:LYS:O	59:1P:306:HOH:O	2.04	0.76
14:1S:14:VAL:O	14:1S:18:ILE:HG12	1.86	0.76
38:1g:78:ARG:O	38:1g:85:TYR:N	2.13	0.76
50:1s:12:ASP:HB3	50:1s:14:HIS:CD2	2.20	0.76
1:2A:598:U:OP1	59:2A:3708:HOH:O	2.02	0.76
1:2A:905:G:O2'	1:2A:961:G:O6	2.02	0.76
1:2A:1046:A:OP2	59:2A:3707:HOH:O	2.02	0.76
1:2A:1305:G:O6	59:2A:3729:HOH:O	2.04	0.76
1:2A:1857:C:OP2	3:2D:222:ARG:NH1	2.18	0.76
1:2A:2587:G:O2'	59:2A:3716:HOH:O	2.03	0.76
10:2O:35:VAL:HA	10:2O:62:VAL:HG12	1.68	0.76
22:20:46:LYS:NZ	22:20:75:LEU:O	2.16	0.76
32:2a:475:G:H2'	32:2a:476:G:H8	1.50	0.76
32:2a:691:C:O2'	32:2a:692:C:H5'	1.85	0.76
32:2a:1131:U:O2'	40:2i:66:ARG:NH1	2.17	0.76
33:2b:61:LEU:HD23	33:2b:68:ILE:HD11	1.67	0.76
40:2i:51:ARG:CA	40:2i:56:LEU:HD11	2.15	0.76
44:2m:20:THR:HA	44:2m:25:ILE:HG23	1.67	0.76
1:1A:38:C:O2	5:1F:46:ARG:NH2	2.18	0.76
1:1A:1217:G:OP2	59:1A:4066:HOH:O	2.02	0.76
1:1A:1387:A:OP2	59:1A:3976:HOH:O	2.04	0.76
1:1A:1696:G:OP1	59:1A:4088:HOH:O	2.03	0.76
32:1a:22:G:OP1	59:1a:2023:HOH:O	2.04	0.76
32:1a:523:A:H2'	32:1a:524:G:C8	2.19	0.76
32:1a:647:A:H5"	49:1r:61:LYS:HE3	1.68	0.76
1:2A:324:G:OP2	20:2Y:84:ARG:NH2	2.17	0.76
1:2A:1595:C:O2'	1:2A:1770:G:N2	2.18	0.76
1:2A:1667:G:OP2	59:2A:3714:HOH:O	2.03	0.76
1:2A:1797:C:C2'	1:2A:1798:U:H5'	2.16	0.76
1:2A:2795:G:H2'	1:2A:2796:C:C6	2.21	0.76
6:2G:11:TYR:O	6:2G:16:ARG:HG2	1.86	0.76
17:2V:72:VAL:HG13	17:2V:85:LYS:HB3	1.65	0.76
39:2h:26:VAL:CG2	39:2h:59:LEU:HB2	2.16	0.76
1:1A:24:U:OP2	59:1A:4103:HOH:O	2.04	0.76
1:1A:200:G:OP1	59:1A:4051:HOH:O	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:344:G:O2'	1:1A:363:A:N3	2.17	0.76
1:1A:2630:C:H4'	4:1E:151:TYR:O	1.85	0.76
3:1D:260:ARG:NH2	3:1D:266:SER:OG	2.19	0.76
18:1W:11:ARG:C	18:1W:11:ARG:CD	2.56	0.76
32:1a:314:G:O6	59:1a:2025:HOH:O	2.04	0.76
32:1a:801:C:OP2	59:1a:2013:HOH:O	2.02	0.76
32:1a:856:G:H5'	39:1h:89:PRO:HG2	1.66	0.76
32:1a:1347:U:O2'	32:1a:1348:G:H5'	1.86	0.76
37:1f:99:ALA:HB3	49:1r:29:PHE:CE1	2.21	0.76
1:2A:1323:A:H2'	1:2A:1324:G:H8	1.51	0.76
1:2A:1525:G:O6	1:2A:1559:U:N3	2.18	0.76
1:2A:2027:C:OP1	59:2A:3724:HOH:O	2.04	0.76
4:2E:34:VAL:HG22	4:2E:48:GLN:O	1.86	0.76
6:2G:103:LEU:HD23	6:2G:106:LEU:HD23	1.68	0.76
11:2P:54:GLY:O	59:2P:304:HOH:O	2.02	0.76
32:2a:371:U:OP1	47:2p:69:THR:HG21	1.85	0.76
32:2a:485:C:O2	32:2a:533:C:O2'	2.04	0.76
32:2a:716:C:OP1	59:2a:1910:HOH:O	2.03	0.76
32:2a:976:G:H1	32:2a:1026:C:N4	1.84	0.76
32:2a:989:G:H2'	32:2a:990:G:H8	1.50	0.76
45:2n:23:ARG:NH1	45:2n:30:ALA:HB2	2.00	0.76
45:2n:59:ALA:HB1	45:2n:61:TRP:HZ3	1.50	0.76
48:2q:6:LEU:HD21	48:2q:23:VAL:HG11	1.68	0.76
1:1A:610:U:OP2	59:1A:4087:HOH:O	2.03	0.76
1:1A:1026:A:OP1	59:1A:4062:HOH:O	2.02	0.76
1:1A:2857:G:O6	59:1A:4101:HOH:O	2.04	0.76
4:1E:48:GLN:HE21	4:1E:78:LEU:HD23	1.51	0.76
15:1T:54:ARG:HA	15:1T:59:THR:HG22	1.68	0.76
25:13:6:VAL:HG12	25:13:28:LEU:HD11	1.67	0.76
32:1a:403:G:H5"	35:1d:115:ARG:CG	2.16	0.76
32:1a:557:A:N3	32:1a:861:C:O2'	2.18	0.76
32:1a:1080:C:O2'	32:1a:1151:A:N3	2.18	0.76
35:1d:18:LYS:HB3	35:1d:20:TYR:HE1	1.50	0.76
44:1m:87:TYR:O	44:1m:91:ARG:HG2	1.86	0.76
5:2F:123:LEU:CD1	5:2F:192:LEU:HD22	2.16	0.76
13:2R:95:THR:HG22	13:2R:116:LEU:HD23	1.68	0.76
31:29:1:MET:CE	31:29:33:LYS:HE2	2.16	0.76
32:2a:488:C:OP1	59:2a:1908:HOH:O	2.03	0.76
32:2a:891:A:H1'	32:2a:892:A:OP2	1.86	0.76
41:2j:12:ASP:O	41:2j:15:THR:OG1	2.03	0.76
1:1A:174:G:OP1	59:1A:4074:HOH:O	2.02	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1019:C:N4	59:1A:4346:HOH:O	2.18	0.76
59:1A:4085:HOH:O	23:11:34:THR:OG1	2.04	0.76
3:1D:51:VAL:HG11	3:1D:54:ARG:HE	1.50	0.76
3:1D:255:LYS:N	59:1D:412:HOH:O	2.16	0.76
6:1G:75:LYS:HA	6:1G:84:LYS:HG3	1.68	0.76
10:1O:9:GLU:OE2	10:1O:18:LYS:HE3	1.86	0.76
16:1U:17:ILE:HG23	16:1U:39:LEU:HD12	1.67	0.76
21:1Z:72:ARG:HG2	21:1Z:89:PHE:HB2	1.65	0.76
32:1a:939:U:H2'	32:1a:940:C:H5'	1.66	0.76
32:1a:1043:C:C5'	45:1n:45:ARG:HH12	1.98	0.76
41:1j:61:GLU:OE2	45:1n:58:LYS:HE2	1.84	0.76
44:1m:23:TYR:CE2	44:1m:70:LEU:HD22	2.20	0.76
1:2A:1198:C:H2'	1:2A:1199:G:O4'	1.85	0.76
1:2A:2096:U:OP1	3:2D:244:ARG:NH2	2.19	0.76
2:2B:36:C:N4	2:2B:49:C:O2	2.14	0.76
7:2H:139:GLN:O	7:2H:143:GLN:N	2.12	0.76
18:2W:65:LEU:HD12	18:2W:68:ARG:HD2	1.68	0.76
22:20:32:ARG:N	22:20:35:ASN:OD1	2.15	0.76
32:2a:272:G:O2'	48:2q:68:ARG:NH1	2.17	0.76
32:2a:506:C:OP2	43:2l:69:TYR:OH	2.04	0.76
32:2a:1260:U:H5'	32:2a:1261:A:O4'	1.85	0.76
1:1A:185:A:N6	1:1A:2441:A:O2'	2.18	0.75
1:1A:1019:C:O2'	59:1A:4102:HOH:O	2.04	0.75
1:1A:2123:U:O2	1:1A:2208:G:C6	2.39	0.75
1:1A:2438:C:OP1	59:1A:3999:HOH:O	2.03	0.75
32:1a:725:G:H2'	32:1a:726:G:C8	2.21	0.75
32:1a:750:A:OP2	59:1a:2018:HOH:O	2.02	0.75
32:1a:1311:A:O2'	44:1m:24:GLY:HA2	1.87	0.75
33:1b:15:VAL:CG2	33:1b:209:ARG:HG3	2.15	0.75
39:1h:81:HIS:HB2	39:1h:138:TRP:CD1	2.21	0.75
1:2A:654:G:N2	1:2A:657:A:OP2	2.18	0.75
1:2A:776:C:OP1	1:2A:1805:U:O2'	2.02	0.75
1:2A:1006:G:HO2'	1:2A:2507:C:HO2'	1.16	0.75
1:2A:2824:C:C5'	27:25:29:THR:HG21	2.16	0.75
3:2D:108:PRO:HD2	3:2D:111:LEU:CD1	2.16	0.75
7:2H:35:VAL:HG11	7:2H:71:LEU:HD22	1.68	0.75
13:2R:103:ARG:NH1	13:2R:110:PRO:HD3	2.01	0.75
16:2U:90:VAL:HG12	16:2U:95:LEU:HD12	1.67	0.75
32:2a:657:G:H2'	32:2a:658:G:C8	2.20	0.75
43:2l:117:ARG:HG2	43:2l:122:THR:O	1.84	0.75
51:2t:43:LEU:O	51:2t:47:GLY:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1462:C:OP1	59:1A:4110:HOH:O	2.04	0.75
1:1A:1468:G:H2'	1:1A:1469:G:C8	2.21	0.75
1:1A:1972:U:O4	59:1A:4090:HOH:O	2.03	0.75
1:1A:2030:G:OP1	18:1W:41:LYS:NZ	2.15	0.75
1:1A:2074:G:OP2	59:1A:4084:HOH:O	2.03	0.75
1:1A:2338:A:OP1	59:1A:4083:HOH:O	2.03	0.75
1:1A:2592:G:OP2	59:1A:4098:HOH:O	2.04	0.75
3:1D:6:PHE:CD2	3:1D:13:ARG:HD2	2.20	0.75
3:1D:142:VAL:HG22	3:1D:143:HIS:H	1.50	0.75
7:1H:86:GLU:OE2	7:1H:132:ARG:NH2	2.20	0.75
15:1T:41:ARG:NH1	32:1a:342:G:H4'	2.01	0.75
32:1a:101:G:N7	51:1t:15:ARG:NH2	2.33	0.75
32:1a:207:G:N2	32:1a:214:C:O2	2.19	0.75
32:1a:975:U:H2'	32:1a:976:G:H5"	1.68	0.75
32:1a:1394:C:N4	32:1a:1467:G:O6	2.15	0.75
34:1c:21:ARG:N	34:1c:57:ILE:O	2.19	0.75
39:1h:19:VAL:HG23	39:1h:21:LYS:HG2	1.69	0.75
1:2A:1626:A:H3'	1:2A:1627:G:H8	1.49	0.75
1:2A:2425:G:OP2	55:2A:3552:MPD:O2	2.02	0.75
1:2A:2430:U:O4	59:2A:3726:HOH:O	2.04	0.75
9:2N:33:LEU:O	9:2N:36:GLY:N	2.19	0.75
26:24:14:ILE:HD11	26:24:24:THR:HG21	1.66	0.75
31:29:10:ILE:HD12	31:29:32:HIS:HA	1.67	0.75
32:2a:1231:C:O4'	40:2i:70:LYS:HE3	1.86	0.75
32:2a:1469:G:O2'	32:2a:1470:A:OP1	2.05	0.75
45:2n:24:CYS:HB3	45:2n:29:ARG:H	1.52	0.75
1:1A:264:U:N3	1:1A:278:G:O6	2.19	0.75
1:1A:1010:G:OP1	59:1A:4093:HOH:O	2.03	0.75
1:1A:1032:G:O2'	1:1A:1045:A:N3	2.18	0.75
1:1A:1213:G:O6	1:1A:1225:C:N4	2.17	0.75
1:1A:1494:G:O6	59:1A:4114:HOH:O	2.04	0.75
1:1A:1765:G:H3'	1:1A:1766:A:H5"	1.67	0.75
1:1A:2791:U:H4'	1:1A:2792:G:H5"	1.67	0.75
18:1W:37:ARG:HG2	18:1W:38:TYR:CD1	2.22	0.75
25:13:3:ARG:HD3	25:13:60:GLU:OE2	1.87	0.75
32:1a:908:C:H42	32:1a:1370:G:H1	1.33	0.75
32:1a:1242:C:OP1	32:1a:1266:C:O2'	2.03	0.75
33:1b:98:LEU:HB2	33:1b:101:MET:HE3	1.68	0.75
41:1j:19:SER:OG	41:1j:91:PRO:HD2	1.87	0.75
1:2A:1092:G:H21	1:2A:1156:A:H62	1.34	0.75
1:2A:1399:A:H4'	3:2D:38:LYS:HE2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2248:G:OP1	59:2A:3734:HOH:O	2.04	0.75
1:2A:2435:C:O2	1:2A:2440:G:O2'	2.01	0.75
3:2D:34:VAL:O	59:2D:401:HOH:O	2.03	0.75
6:2G:142:PRO:HB2	26:24:31:ILE:HG21	1.66	0.75
8:2I:75:LEU:HD21	8:2I:105:HIS:CE1	2.21	0.75
31:29:29:ASN:HB3	31:29:32:HIS:ND1	2.02	0.75
32:2a:1109:U:N3	32:2a:1262:A:OP1	2.20	0.75
32:2a:1394:C:N4	32:2a:1467:G:O6	2.14	0.75
48:2q:90:ILE:HG22	48:2q:94:ASN:HD21	1.50	0.75
1:1A:1826:U:O4	59:1A:4096:HOH:O	2.03	0.75
1:1A:2124:C:H42	1:1A:2207:G:H1	1.33	0.75
4:1E:170:LEU:HB3	4:1E:184:VAL:CG2	2.17	0.75
32:1a:531:A:OP1	59:1a:2027:HOH:O	2.05	0.75
32:1a:1095:C:H1'	34:1c:179:ARG:CD	2.15	0.75
1:2A:332:G:N3	1:2A:352:G:O2'	2.18	0.75
1:2A:908:G:O2'	2:2B:78:A:N3	2.19	0.75
1:2A:2136:G:H3'	1:2A:2137:G:H5'	1.67	0.75
1:2A:2323:U:O4'	6:2G:88:ILE:HD11	1.87	0.75
11:2P:126:VAL:CG1	11:2P:148:LEU:HD23	2.17	0.75
23:21:91:LYS:O	23:21:95:LEU:HD13	1.86	0.75
32:2a:96:G:OP2	51:2t:10:LEU:HD21	1.87	0.75
32:2a:551:G:O2'	59:2a:1915:HOH:O	2.04	0.75
32:2a:1483:G:OP2	59:2a:1909:HOH:O	2.03	0.75
41:2j:27:ALA:HB1	41:2j:74:ILE:HD12	1.67	0.75
43:2l:28:LYS:N	43:2l:29:GLY:HA2	2.01	0.75
1:1A:737:C:N4	1:1A:817:G:O6	2.17	0.75
1:1A:1182:G:OP1	59:1A:4121:HOH:O	2.05	0.75
1:1A:2040:A:OP2	27:15:9:LYS:NZ	2.17	0.75
4:1E:160:TYR:OH	59:1E:406:HOH:O	2.04	0.75
11:1P:56:SER:O	59:1P:307:HOH:O	2.04	0.75
12:1Q:31:ASP:OD2	59:1Q:302:HOH:O	2.02	0.75
12:1Q:36:ALA:O	12:1Q:100:GLY:N	2.18	0.75
32:1a:371:U:OP1	47:1p:69:THR:HG21	1.86	0.75
32:1a:646:G:H2'	32:1a:647:A:C8	2.22	0.75
32:1a:1063:A:OP1	36:1e:47:LYS:HD3	1.86	0.75
32:1a:1189:2MG:H2'	32:1a:1190:C:H6	1.51	0.75
33:1b:15:VAL:HG11	33:1b:213:LEU:HD13	1.67	0.75
35:1d:194:LEU:HB3	35:1d:196:LEU:CD1	2.17	0.75
38:1g:143:ARG:O	38:1g:147:ALA:N	2.19	0.75
43:1l:102:ARG:NE	43:1l:108:ALA:O	2.17	0.75
1:2A:927:G:H2'	1:2A:928:G:C8	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2078:A:OP2	59:2A:3738:HOH:O	2.05	0.75
4:2E:110:GLY:O	59:2R:8101:HOH:O	2.04	0.75
17:2V:11:GLN:HG2	17:2V:38:LEU:CD1	2.16	0.75
32:2a:109:G:OP1	59:2a:1913:HOH:O	2.04	0.75
32:2a:143:G:H2'	32:2a:144:A:H8	1.52	0.75
32:2a:296:A:O2'	32:2a:548:C:N3	2.17	0.75
32:2a:1482:G:O2'	59:2a:1907:HOH:O	2.03	0.75
33:2b:83:MET:CE	33:2b:234:PRO:HB2	2.16	0.75
35:2d:121:VAL:O	35:2d:134:ASP:HA	1.87	0.75
1:1A:26:G:N2	1:1A:536:G:H1'	2.01	0.75
1:1A:1443:C:O3'	19:1X:25:LYS:NZ	2.20	0.75
1:1A:1621:C:O2'	59:1A:4095:HOH:O	2.03	0.75
6:1G:132:ASN:OD1	6:1G:158:ALA:HA	1.87	0.75
13:1R:33:ARG:HD2	13:1R:115:GLU:OE1	1.86	0.75
20:1Y:65:ALA:O	59:1Y:602:HOH:O	2.04	0.75
32:1a:370:A:N6	32:1a:386:C:O2	2.16	0.75
32:1a:582:U:O4	59:1a:2021:HOH:O	2.04	0.75
32:1a:1172:G:OP1	34:1c:5:ILE:N	2.19	0.75
32:1a:1429:C:N4	32:1a:1436:G:O6	2.20	0.75
39:1h:17:THR:O	39:1h:78:GLN:NE2	2.18	0.75
43:1l:70:ILE:HD13	43:1l:77:LEU:HD12	1.66	0.75
46:1o:29:VAL:HG13	46:1o:63:ARG:HG3	1.67	0.75
47:1p:6:LEU:HB3	47:1p:17:TYR:HB3	1.69	0.75
1:2A:118:G:O6	1:2A:127:C:N4	2.14	0.75
1:2A:508:A:O2'	20:2Y:49:VAL:O	2.03	0.75
1:2A:836:C:OP2	59:2A:3720:HOH:O	2.03	0.75
1:2A:1424:A:H4'	1:2A:1425:G:OP2	1.85	0.75
1:2A:2113:U:H4'	1:2A:2114:G:O5'	1.85	0.75
1:2A:2693:U:OP2	59:2A:3717:HOH:O	2.03	0.75
2:2B:7:G:C3'	2:2B:8:U:H5"	2.17	0.75
7:2H:28:GLY:HA3	7:2H:79:VAL:HB	1.69	0.75
17:2V:82:ARG:O	17:2V:83:ARG:NH1	2.19	0.75
32:2a:1377:A:O2'	32:2a:1479:C:O2	2.04	0.75
38:2g:46:ALA:HB2	38:2g:117:ALA:CB	2.17	0.75
42:2k:34:ASP:OD1	42:2k:37:GLY:N	2.18	0.75
1:1A:1369:G:O6	59:1A:4061:HOH:O	2.02	0.75
1:1A:2147:A:H4'	1:1A:2148:G:O5'	1.85	0.75
2:1B:114:C:O2'	14:1S:46:VAL:HG13	1.86	0.75
6:1G:106:LEU:HG	6:1G:111:LEU:HD23	1.66	0.75
6:1G:126:ASP:CB	6:1G:130:ASN:HB2	2.17	0.75
16:1U:59:ARG:O	16:1U:63:VAL:HG23	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:904:G:O6	59:1a:2026:HOH:O	2.04	0.75
34:1c:159:GLY:HA2	34:1c:193:TYR:CD2	2.22	0.75
36:1e:84:PHE:CB	36:1e:134:ALA:HB2	2.16	0.75
37:1f:3:ARG:NE	37:1f:38:GLU:OE2	2.19	0.75
37:1f:41:GLU:HG2	37:1f:43:LEU:CD1	2.16	0.75
41:1j:11:PHE:CE1	41:1j:67:THR:HG22	2.22	0.75
45:1n:4:LYS:HG3	45:1n:7:ILE:HD11	1.68	0.75
1:2A:180:C:O2	1:2A:848:A:O2'	2.03	0.75
1:2A:1017:A:OP2	59:2A:3649:HOH:O	2.03	0.75
1:2A:2266:G:H1	1:2A:2286:C:H42	1.32	0.75
1:2A:2510:C:OP2	59:2A:3721:HOH:O	2.03	0.75
6:2G:122:PRO:HD3	6:2G:180:PHE:HB3	1.68	0.75
18:2W:78:GLU:OE2	18:2W:99:ARG:NH1	2.17	0.75
32:2a:295:G:O6	59:2a:1914:HOH:O	2.04	0.75
32:2a:493:A:H2'	32:2a:494:A:C8	2.22	0.75
32:2a:1048:U:H1'	32:2a:1049:C:OP2	1.85	0.75
32:2a:1160:G:N2	32:2a:1163:G:OP2	2.20	0.75
32:2a:1279:C:O2	38:2g:114:ARG:NH1	2.20	0.75
38:2g:54:THR:O	38:2g:56:GLN:N	2.20	0.75
44:2m:90:LEU:HD21	44:2m:93:ARG:HH21	1.50	0.75
46:2o:27:VAL:O	46:2o:30:ALA:N	2.19	0.75
1:1A:894:G:H2'	1:1A:895:A:C8	2.22	0.75
1:1A:2537:G:N3	31:19:1:MET:N	2.35	0.75
4:1E:127:ASP:OD2	59:1E:407:HOH:O	2.05	0.75
17:1V:55:ALA:O	59:1V:303:HOH:O	2.04	0.75
21:1Z:157:LEU:HD11	21:1Z:163:LEU:CD1	2.16	0.75
32:1a:731:C:OP2	32:1a:732:C:N4	2.17	0.75
32:1a:839:G:O6	59:1a:2028:HOH:O	2.05	0.75
50:1s:40:ILE:HG22	50:1s:67:VAL:HG13	1.69	0.75
1:2A:933:A:O2'	1:2A:934:C:H3'	1.87	0.75
1:2A:1111:U:O2'	1:2A:1113:G:OP2	2.03	0.75
1:2A:2239:G:OP1	3:2D:261:LYS:NZ	2.13	0.75
1:2A:2513:G:OP2	59:2A:3728:HOH:O	2.04	0.75
1:2A:2798:U:O2'	4:2E:62:PRO:O	2.04	0.75
8:2I:98:ALA:HA	8:2I:101:LEU:HD12	1.66	0.75
12:2Q:68:ILE:HG22	12:2Q:101:ARG:HE	1.51	0.75
32:2a:853:C:HO2'	39:2h:14:ARG:HE	1.35	0.75
32:2a:1115:C:N3	32:2a:1125:G:N2	2.33	0.75
32:2a:1172:G:OP1	34:2c:5:ILE:N	2.18	0.75
34:2c:20:SER:OG	34:2c:22:TRP:NE1	2.20	0.75
34:2c:185:GLY:O	34:2c:200:ALA:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1012:G:O6	59:1A:4134:HOH:O	2.05	0.75
1:1A:2514:2MA:O2'	59:1A:4117:HOH:O	2.05	0.75
1:1A:2608:G:O3'	59:1A:4112:HOH:O	2.04	0.75
5:1F:67:GLN:O	59:1F:403:HOH:O	2.03	0.75
7:1H:3:ARG:HG2	7:1H:6:ARG:HH11	1.52	0.75
18:1W:80:PRO:O	18:1W:100:THR:HG22	1.86	0.75
32:1a:315:G:H1	32:1a:330:C:H42	1.33	0.75
32:1a:531:A:OP2	35:1d:2:GLY:N	2.20	0.75
32:1a:956:A:O2'	32:1a:1304:C:N3	2.19	0.75
32:1a:1287:G:OP2	52:1u:5:ASP:HB2	1.87	0.75
32:1a:1296:C:H2'	32:1a:1297:U:C6	2.21	0.75
32:1a:1308:C:OP1	52:1u:12:LYS:NZ	2.20	0.75
51:1t:43:LEU:O	51:1t:47:GLY:N	2.20	0.75
51:1t:56:MET:HG3	51:1t:84:LEU:HD22	1.66	0.75
1:2A:437:G:OP1	59:2A:3745:HOH:O	2.05	0.75
1:2A:640:G:OP2	5:2F:43:LYS:NZ	2.16	0.75
1:2A:846:A:OP1	59:2A:3741:HOH:O	2.05	0.75
1:2A:1043:C:OP2	16:2U:58:ARG:NH2	2.20	0.75
1:2A:1075:G:OP2	12:2Q:128:LYS:NZ	2.18	0.75
1:2A:1850:U:H4'	1:2A:1851:A:OP2	1.86	0.75
1:2A:2404:A:H5"	11:2P:63:PRO:HB3	1.67	0.75
1:2A:2651:G:O3'	9:2N:74:ARG:NH2	2.20	0.75
11:2P:28:GLY:O	59:2P:305:HOH:O	2.04	0.75
30:28:23:VAL:HG11	30:28:47:LYS:HB3	1.66	0.75
32:2a:135:A:H2'	32:2a:136:A:H8	1.51	0.75
32:2a:137:G:H2'	32:2a:138:A:C8	2.21	0.75
32:2a:734:G:N3	46:2o:23:GLY:HA3	2.00	0.75
32:2a:950:C:O3'	41:2j:57:LYS:HD3	1.85	0.75
32:2a:1161:A:H5"	40:2i:102:LEU:HD13	1.69	0.75
36:2e:15:ARG:HD2	36:2e:26:PHE:HD2	1.51	0.75
1:1A:883:C:OP2	59:1A:4092:HOH:O	2.03	0.74
1:1A:1219:U:O2'	1:1A:1220:G:O5'	2.05	0.74
1:1A:2035:A:OP1	59:1A:4080:HOH:O	2.03	0.74
6:1G:179:PRO:HB2	26:14:42:PHE:HE2	1.52	0.74
7:1H:24:VAL:CG2	7:1H:35:VAL:HB	2.17	0.74
7:1H:154:PRO:HB3	7:1H:163:TYR:CE1	2.22	0.74
8:1I:77:LEU:HD11	8:1I:100:ALA:CB	2.17	0.74
16:1U:40:PHE:O	59:1U:303:HOH:O	2.04	0.74
28:16:14:THR:O	28:16:17:LYS:NZ	2.17	0.74
32:1a:262:G:H4'	32:1a:263:C:O5'	1.86	0.74
32:1a:1349:C:H2'	32:1a:1350:C:C6	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1425:G:H2'	32:1a:1425:G:N3	2.00	0.74
33:1b:100:GLY:N	33:1b:176:GLU:OE2	2.19	0.74
43:1l:35:GLY:HA3	43:1l:58:VAL:CG1	2.17	0.74
43:1l:45:PRO:HB2	43:1l:92:0TD:SB	2.26	0.74
1:2A:1401:G:OP2	59:2A:3733:HOH:O	2.04	0.74
1:2A:1813:A:OP1	59:2A:3739:HOH:O	2.05	0.74
1:2A:1828:U:H5	3:2D:274:ARG:HH12	1.35	0.74
1:2A:1844:G:OP2	1:2A:1845:A:O2'	2.01	0.74
1:2A:2170:G:H2'	1:2A:2171:U:O4'	1.87	0.74
6:2G:68:PRO:HB2	6:2G:90:LEU:HB3	1.68	0.74
16:2U:74:LEU:HD21	16:2U:110:VAL:HG13	1.67	0.74
21:2Z:97:GLU:HG2	21:2Z:125:LEU:HD11	1.68	0.74
22:20:50:ASN:HA	22:20:62:LEU:HD12	1.69	0.74
25:23:5:LYS:NZ	25:23:57:GLU:OE1	2.20	0.74
32:2a:648:G:OP1	49:2r:64:ARG:NE	2.16	0.74
1:1A:76:A:H2'	1:1A:77:G:H8	1.52	0.74
1:1A:1997:U:O4	59:1A:4115:HOH:O	2.04	0.74
1:1A:2163:C:O2	1:1A:2170:G:N1	2.19	0.74
1:1A:2266:G:OP2	59:1A:4113:HOH:O	2.04	0.74
1:1A:2771:G:OP2	59:1A:4137:HOH:O	2.05	0.74
17:1V:21:ARG:HD3	17:1V:91:TYR:CE2	2.22	0.74
21:1Z:72:ARG:CG	21:1Z:89:PHE:HB2	2.17	0.74
30:18:31:HIS:ND1	30:18:32:LEU:HD13	2.01	0.74
32:1a:7:G:O2'	32:1a:294:A:H1'	1.87	0.74
32:1a:775:G:O3'	59:1a:2029:HOH:O	2.05	0.74
32:1a:1030:G:OP1	45:1n:4:LYS:NZ	2.17	0.74
37:1f:97:PHE:HB2	49:1r:32:ARG:NH1	2.02	0.74
48:1q:43:LEU:HD11	48:1q:68:ARG:HE	1.52	0.74
1:2A:412:G:O2'	59:2A:3735:HOH:O	2.04	0.74
1:2A:554:G:O6	59:2A:3732:HOH:O	2.04	0.74
1:2A:1092:G:H2'	1:2A:1155:G:H22	1.51	0.74
16:2U:59:ARG:O	16:2U:63:VAL:HG23	1.87	0.74
21:2Z:33:LEU:HD21	21:2Z:90:VAL:HG11	1.69	0.74
32:2a:19:C:H5"	36:2e:127:ASN:ND2	2.01	0.74
32:2a:931:G:N7	44:2m:104:ARG:NH2	2.34	0.74
32:2a:1014:G:H2'	32:2a:1015:G:H8	1.50	0.74
32:2a:1324:C:H1'	40:2i:124:GLN:HG3	1.68	0.74
39:2h:60:ARG:HB3	39:2h:62:TYR:HE1	1.49	0.74
43:2l:83:VAL:CG2	43:2l:100:ILE:HG23	2.16	0.74
1:1A:1652:C:O2	59:1A:4086:HOH:O	2.03	0.74
1:1A:2155:A:N6	1:1A:2178:G:H4'	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:111:ARG:HA	13:1R:1:MET:HE2	1.69	0.74
12:1Q:34:LEU:HD11	12:1Q:129:THR:HB	1.69	0.74
15:1T:112:ARG:O	15:1T:115:ARG:NE	2.19	0.74
30:18:14:VAL:HG21	30:18:22:VAL:CG1	2.16	0.74
32:1a:1138:G:H2'	32:1a:1139:G:O4'	1.88	0.74
32:1a:1164:G:C4'	32:1a:1165:A:H5'	2.12	0.74
1:2A:200:G:H2'	1:2A:201:A:O4'	1.88	0.74
1:2A:346:G:HO2'	1:2A:1249:U:H3	1.18	0.74
1:2A:890:C:C2'	1:2A:891:G:H5'	2.18	0.74
1:2A:1000:G:OP2	12:2Q:87:LYS:NZ	2.17	0.74
1:2A:1120:C:H4'	12:2Q:59:ARG:HH12	1.51	0.74
1:2A:2416:G:O2'	1:2A:2417:U:OP1	2.04	0.74
1:2A:2829:A:O2'	1:2A:2830:A:OP1	2.06	0.74
1:2A:2891:A:OP1	13:2R:96:ARG:NH1	2.19	0.74
6:2G:107:LEU:CD2	6:2G:111:LEU:HD11	2.17	0.74
13:2R:29:LEU:HD23	13:2R:79:LEU:HD12	1.67	0.74
13:2R:96:ARG:HD2	13:2R:115:GLU:OE2	1.87	0.74
20:2Y:86:ARG:O	20:2Y:98:VAL:HG22	1.85	0.74
32:2a:1300:A:OP1	50:2s:3:ARG:NH2	2.13	0.74
33:2b:73:THR:OG1	33:2b:170:GLU:OE2	2.05	0.74
34:2c:157:ILE:HD13	34:2c:166:GLU:HG2	1.67	0.74
35:2d:111:ALA:HB2	35:2d:120:LEU:CD1	2.16	0.74
40:2i:89:ASN:HB3	40:2i:92:TYR:CD2	2.23	0.74
45:2n:45:ARG:HG2	45:2n:49:HIS:CD2	2.21	0.74
46:2o:24:SER:OG	46:2o:26:GLU:OE1	2.04	0.74
49:2r:53:ARG:HA	49:2r:56:THR:OG1	1.86	0.74
1:1A:213:A:H2'	1:1A:214:G:H5'	1.70	0.74
1:1A:736:G:H4'	3:1D:218:ARG:HH22	1.51	0.74
1:1A:1312:U:OP1	59:1A:4116:HOH:O	2.04	0.74
1:1A:2016:U:O2'	59:1A:4131:HOH:O	2.05	0.74
1:1A:2262:OMG:OP2	59:1A:4089:HOH:O	2.03	0.74
1:1A:2891:A:H5'	13:1R:96:ARG:HG3	1.70	0.74
32:1a:17:A:O2'	32:1a:18:U:H5'	1.88	0.74
32:1a:144:A:N6	32:1a:166:A:N7	2.35	0.74
32:1a:261:G:C2'	32:1a:262:G:H5"	2.16	0.74
32:1a:382:C:H2'	32:1a:383:U:O4'	1.88	0.74
1:2A:82:A:H5"	20:2Y:8:LYS:HE3	1.68	0.74
1:2A:433:G:OP2	59:2A:3725:HOH:O	2.04	0.74
1:2A:1230:G:H2'	1:2A:1231:G:O4'	1.87	0.74
1:2A:1307:A:O2'	59:2A:3730:HOH:O	2.04	0.74
1:2A:2377:A:OP1	59:2A:3737:HOH:O	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2623:C:OP1	59:2A:3715:HOH:O	2.03	0.74
9:2N:71:ILE:CG2	9:2N:84:LYS:HB3	2.18	0.74
11:2P:112:LEU:HD22	11:2P:127:ALA:HB2	1.70	0.74
17:2V:56:SER:O	17:2V:100:ARG:N	2.16	0.74
24:22:9:GLN:HE22	24:22:56:GLN:HB3	1.52	0.74
32:2a:970:U:H4'	32:2a:971:G:O5'	1.87	0.74
33:2b:16:HIS:O	33:2b:18:GLY:N	2.21	0.74
36:2e:39:GLY:HA2	36:2e:69:VAL:HG13	1.70	0.74
42:2k:16:SER:OG	42:2k:106:LYS:NZ	2.14	0.74
1:1A:1171:A:H4'	1:1A:1172:A:O5'	1.87	0.74
1:1A:1578:C:H42	1:1A:1583:G:H1	1.31	0.74
1:1A:1590:A:OP2	59:1A:4111:HOH:O	2.04	0.74
1:1A:1644:C:OP2	59:1A:4145:HOH:O	2.06	0.74
1:1A:1716:C:OP1	59:1A:4099:HOH:O	2.04	0.74
1:1A:2025:G:OP2	59:1A:4104:HOH:O	2.04	0.74
1:1A:2033:G:OP1	59:1A:4108:HOH:O	2.04	0.74
1:1A:2298:A:H61	1:1A:2355:U:H3	1.35	0.74
1:1A:2537:G:H5'	1:1A:2754:C:O2'	1.87	0.74
1:1A:2831:G:OP2	59:1A:4144:HOH:O	2.06	0.74
2:1B:113:G:N2	59:1B:309:HOH:O	2.20	0.74
5:1F:64:ILE:HG21	5:1F:78:ILE:HG23	1.69	0.74
17:1V:80:GLN:OE1	59:1V:304:HOH:O	2.06	0.74
32:1a:638:G:H21	32:1a:739:G:H4'	1.53	0.74
32:1a:1478:A:OP2	59:1a:2022:HOH:O	2.03	0.74
34:1c:113:ALA:HB3	34:1c:114:PRO:HD3	1.69	0.74
1:2A:2112:U:OP2	1:2A:2113:U:O2'	2.03	0.74
1:2A:2296:C:OP2	28:26:6:ARG:HD2	1.86	0.74
1:2A:2332:G:O2'	1:2A:2333:A:OP1	2.05	0.74
2:2B:104:U:O2'	21:2Z:72:ARG:HG2	1.86	0.74
3:2D:70:TRP:HB3	3:2D:190:TYR:CZ	2.21	0.74
6:2G:109:VAL:O	6:2G:112:PRO:HD2	1.87	0.74
18:2W:23:LEU:HD11	27:25:27:PRO:HB3	1.68	0.74
32:2a:406:G:OP1	35:2d:30:LYS:NZ	2.14	0.74
32:2a:557:A:OP2	59:2a:1904:HOH:O	2.05	0.74
32:2a:1185:C:H2'	32:2a:1186:A:O4'	1.86	0.74
34:2c:50:ALA:O	34:2c:72:LYS:HB2	1.87	0.74
49:2r:26:LEU:CD2	49:2r:39:VAL:HG13	2.17	0.74
1:1A:475:G:O6	59:1A:4014:HOH:O	2.04	0.74
1:1A:550:A:OP1	59:1A:4105:HOH:O	2.04	0.74
1:1A:1000:G:O6	59:1A:4138:HOH:O	2.06	0.74
1:1A:1310:A:OP2	59:1A:4132:HOH:O	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1449:C:O2'	1:1A:1450:U:H5'	1.88	0.74
1:1A:1701:A:N3	59:1A:4350:HOH:O	2.19	0.74
3:1D:72:LYS:HD3	3:1D:97:TYR:CE2	2.22	0.74
3:1D:85:ASP:OD2	3:1D:88:ARG:NH1	2.21	0.74
21:1Z:145:GLU:O	21:1Z:148:ASP:N	2.18	0.74
33:1b:55:PHE:HD1	33:1b:58:ILE:HD12	1.53	0.74
1:2A:1139:U:OP1	1:2A:1141:A:N6	2.20	0.74
1:2A:2589:G:OP1	1:2A:2625:A:N6	2.20	0.74
1:2A:2761:A:H1'	7:2H:63:SER:HB2	1.69	0.74
32:2a:251:G:OP1	48:2q:69:LYS:NZ	2.21	0.74
32:2a:274:G:OP2	48:2q:92:ARG:NH2	2.20	0.74
32:2a:1129:A:C3'	32:2a:1130:C:H5"	2.17	0.74
32:2a:1163:G:O2'	32:2a:1164:G:N7	2.21	0.74
32:2a:1292:G:H1	32:2a:1309:C:N4	1.84	0.74
36:2e:71:LEU:HD11	36:2e:113:ALA:O	1.88	0.74
38:2g:111:ARG:HG3	38:2g:112:PRO:HD2	1.70	0.74
44:2m:97:PRO:N	44:2m:110:ARG:HG2	2.02	0.74
1:1A:986:G:OP1	59:1A:4123:HOH:O	2.05	0.74
1:1A:1341:G:O6	1:1A:1690:C:N4	2.18	0.74
1:1A:2382:G:O2'	28:16:46:HIS:ND1	2.20	0.74
3:1D:151:LYS:O	3:1D:154:LYS:NZ	2.21	0.74
12:1Q:137:TYR:OH	21:1Z:45:ASP:OD1	2.04	0.74
13:1R:15:SER:OG	59:1R:303:HOH:O	2.06	0.74
32:1a:447:A:O2'	32:1a:448:A:OP2	2.04	0.74
35:1d:127:THR:OG1	35:1d:147:ALA:O	2.02	0.74
44:1m:65:LYS:HE3	44:1m:69:GLU:HG2	1.69	0.74
1:2A:251:C:O2'	1:2A:455:A:N3	2.18	0.74
1:2A:1429:A:O2'	1:2A:1449:C:O2'	1.92	0.74
1:2A:1710:A:H1'	1:2A:2696:G:O2'	1.88	0.74
1:2A:1858:G:OP2	59:2A:3760:HOH:O	2.06	0.74
1:2A:2479:G:OP1	12:2Q:119:ARG:NH2	2.20	0.74
1:2A:2830:A:OP2	59:2R:8101:HOH:O	2.05	0.74
1:2A:2832:A:O2'	59:2A:3740:HOH:O	2.05	0.74
23:21:50:ARG:HG2	23:21:59:THR:HG22	1.67	0.74
32:2a:358:G:N7	59:2a:1937:HOH:O	2.21	0.74
32:2a:1009:C:N4	32:2a:1014:G:H1	1.86	0.74
43:2l:26:ALA:HA	43:2l:64:TYR:CD2	2.22	0.74
1:1A:282:G:O6	59:1A:4139:HOH:O	2.06	0.74
1:1A:833:U:OP1	59:1A:4128:HOH:O	2.05	0.74
1:1A:1815:A:O2'	59:1A:4141:HOH:O	2.06	0.74
1:1A:2114:G:H1	1:1A:2217:C:N4	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2147:A:N1	1:1A:2183:G:O2'	2.20	0.74
1:1A:2523:C:H2'	1:1A:2524:G:O4'	1.87	0.74
1:1A:2653:G:H5"	9:1N:78:TYR:CD2	2.23	0.74
18:1W:6:ILE:HG22	18:1W:8:ARG:HG3	1.70	0.74
32:1a:855:C:OP1	39:1h:88:LYS:NZ	2.17	0.74
32:1a:985:C:H2'	32:1a:986:C:C6	2.23	0.74
32:1a:991:U:O2	32:1a:996:G:O6	2.06	0.74
32:1a:1161:A:OP2	40:1i:93:ARG:NH2	2.18	0.74
34:1c:77:ILE:HA	34:1c:84:ILE:CB	2.17	0.74
48:1q:45:HIS:NE2	48:1q:47:PRO:HG3	2.02	0.74
50:1s:19:VAL:HG21	50:1s:44:MET:HG2	1.67	0.74
1:2A:252:C:O2'	1:2A:253:A:H2'	1.88	0.74
1:2A:848:A:OP1	59:2A:3757:HOH:O	2.06	0.74
1:2A:1013:U:OP1	25:23:17:LYS:N	2.20	0.74
1:2A:1108:G:H1	1:2A:1120:C:N4	1.86	0.74
1:2A:2241:G:O2'	23:21:43:TYR:O	2.04	0.74
1:2A:2249:G:OP1	59:2A:3755:HOH:O	2.06	0.74
5:2F:40:GLN:NE2	5:2F:182:ASN:HB2	1.97	0.74
18:2W:104:THR:O	59:2W:301:HOH:O	2.06	0.74
24:22:1:MET:SD	24:22:56:GLN:NE2	2.61	0.74
32:2a:854:G:O2'	39:2h:7:ALA:HB1	1.86	0.74
32:2a:1245:C:N4	32:2a:1254:G:H1	1.84	0.74
32:2a:1274:U:H3'	32:2a:1275:G:H5"	1.69	0.74
35:2d:113:SER:O	35:2d:117:ALA:N	2.17	0.74
35:2d:174:LEU:HD23	35:2d:185:PHE:HA	1.67	0.74
41:2j:74:ILE:HD11	41:2j:81:THR:HG21	1.68	0.74
1:1A:1553:A:H4'	1:1A:1555:A:C5	2.23	0.74
1:1A:1577:C:H42	1:1A:1584:G:H1	1.35	0.74
1:1A:2152:G:OP1	1:1A:2153:U:H3'	1.87	0.74
3:1D:108:PRO:HD2	3:1D:111:LEU:CD1	2.18	0.74
11:1P:55:ARG:O	59:1P:308:HOH:O	2.06	0.74
11:1P:64:LYS:NZ	59:1P:310:HOH:O	2.20	0.74
18:1W:74:ALA:O	59:1W:3103:HOH:O	2.04	0.74
29:17:24:THR:HG23	29:17:27:GLY:H	1.53	0.74
32:1a:542:G:O6	59:1a:2024:HOH:O	2.04	0.74
32:1a:910:C:H42	32:1a:1368:G:H1	1.36	0.74
32:1a:1006:C:H2'	32:1a:1007:C:C5	2.22	0.74
36:1e:85:GLY:O	59:1e:3101:HOH:O	2.05	0.74
43:1l:67:THR:OG1	43:1l:95:GLY:O	2.04	0.74
1:2A:2201:U:H2'	1:2A:2202:G:C8	2.23	0.74
1:2A:2266:G:OP2	59:2A:3754:HOH:O	2.06	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2379:C:H2'	1:2A:2380:A:H8	1.53	0.74
1:2A:2513:G:OP2	59:2A:3658:HOH:O	2.06	0.74
1:2A:2631:C:O2'	4:2E:156:MET:O	2.05	0.74
4:2E:170:LEU:HB3	4:2E:184:VAL:HG13	1.69	0.74
6:2G:128:ARG:O	59:2G:8102:HOH:O	2.06	0.74
21:2Z:6:LYS:NZ	21:2Z:43:GLU:OE1	2.21	0.74
31:29:1:MET:HE3	31:29:33:LYS:HE2	1.70	0.74
32:2a:766:A:H2'	32:2a:767:C:H5'	1.70	0.74
32:2a:989:G:H2'	32:2a:990:G:C8	2.22	0.74
33:2b:15:VAL:O	33:2b:17:PHE:N	2.17	0.74
36:2e:10:MET:HE2	36:2e:55:VAL:CG1	2.17	0.74
36:2e:69:VAL:HG11	36:2e:113:ALA:HB1	1.69	0.74
38:2g:72:ARG:N	38:2g:142:GLU:OE2	2.18	0.74
51:2t:57:ARG:NH1	51:2t:101:GLY:O	2.21	0.74
1:1A:805:G:O2'	59:1A:4142:HOH:O	2.06	0.74
1:1A:808:U:O2	59:1A:4100:HOH:O	2.04	0.74
1:1A:1202:G:O2'	25:13:31:LEU:HD12	1.87	0.74
1:1A:1514:C:OP1	59:1A:4118:HOH:O	2.05	0.74
21:1Z:155:LEU:HD11	21:1Z:171:ILE:HD13	1.69	0.74
32:1a:1100:G:H4'	40:1i:104:ARG:NH1	2.01	0.74
37:1f:50:TYR:CE1	49:1r:77:GLY:HA2	2.22	0.74
1:2A:131:C:N3	1:2A:144:G:N1	2.33	0.74
1:2A:384:G:O2'	1:2A:385:U:H5'	1.88	0.74
1:2A:782:C:OP1	59:2A:3763:HOH:O	2.06	0.74
1:2A:2592:G:OP2	1:2A:2592:G:N2	2.17	0.74
32:2a:869:U:OP2	59:2a:1918:HOH:O	2.05	0.74
32:2a:973:C:O2'	32:2a:974:A:H5'	1.87	0.74
37:2f:82:ARG:HB2	37:2f:85:VAL:CG2	2.18	0.74
48:2q:5:VAL:HA	48:2q:59:ILE:O	1.88	0.74
1:1A:846:A:OP1	59:1A:4097:HOH:O	2.04	0.73
1:1A:1006:G:OP1	59:1A:4011:HOH:O	2.05	0.73
1:1A:1107:G:H1	1:1A:1122:A:H2	1.34	0.73
1:1A:1700:A:OP1	13:1R:1:MET:N	2.17	0.73
1:1A:2330:G:H22	14:1S:3:ARG:HD2	1.52	0.73
1:1A:2881:G:O2'	1:1A:2882:A:H5'	1.87	0.73
3:1D:164:GLN:OE1	3:1D:176:ARG:NH2	2.21	0.73
7:1H:24:VAL:HG22	7:1H:35:VAL:HB	1.69	0.73
15:1T:42:ILE:HD13	15:1T:84:GLN:OE1	1.88	0.73
30:18:54:GLU:OE2	59:18:202:HOH:O	2.06	0.73
32:1a:342:G:OP2	55:1a:1900:MPD:HM1	1.87	0.73
32:1a:940:C:H2'	32:1a:941:G:O4'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1251:A:H1'	32:1a:1308:C:H1'	1.70	0.73
1:2A:1260:G:O6	1:2A:1278:C:N4	2.19	0.73
1:2A:1465:U:O2'	1:2A:1466:G:OP1	2.06	0.73
1:2A:1990:A:OP2	59:2A:3747:HOH:O	2.05	0.73
1:2A:2038:U:OP1	59:2A:3750:HOH:O	2.06	0.73
33:2b:163:PHE:HE1	33:2b:201:ILE:HD13	1.52	0.73
41:2j:32:ALA:HB1	41:2j:33:GLN:HA	1.69	0.73
1:1A:2034:A:OP1	59:1A:4149:HOH:O	2.06	0.73
1:1A:2238:A:OP2	59:1A:4159:HOH:O	2.06	0.73
6:1G:111:LEU:HD11	6:1G:120:LEU:HD21	1.69	0.73
18:1W:78:GLU:OE2	18:1W:99:ARG:NH1	2.21	0.73
21:1Z:74:VAL:O	59:1Z:8101:HOH:O	2.05	0.73
22:10:32:ARG:H	22:10:35:ASN:ND2	1.85	0.73
29:17:31:LEU:O	29:17:35:ARG:HG3	1.88	0.73
32:1a:345:A:O2'	32:1a:346:G:H5'	1.87	0.73
32:1a:1077:G:OP1	59:1a:2030:HOH:O	2.06	0.73
32:1a:1132:C:H2'	32:1a:1133:U:O4'	1.88	0.73
40:1i:4:TYR:O	40:1i:19:LEU:N	2.19	0.73
41:1j:11:PHE:HE1	41:1j:67:THR:HG22	1.53	0.73
1:2A:252:C:O2	59:2A:3753:HOH:O	2.06	0.73
1:2A:471:G:OP2	59:2A:3731:HOH:O	2.04	0.73
1:2A:1421:C:OP1	59:2A:3770:HOH:O	2.06	0.73
1:2A:1688:G:N7	59:2A:3906:HOH:O	2.21	0.73
1:2A:2234:G:OP1	3:2D:172:TYR:OH	2.06	0.73
1:2A:2552:A:OP2	59:2A:3744:HOH:O	2.05	0.73
32:2a:558:A:H1'	32:2a:861:C:O4'	1.88	0.73
32:2a:832:G:H3'	32:2a:849:U:O4	1.88	0.73
32:2a:906:G:O2'	32:2a:1511:C:OP1	2.05	0.73
32:2a:1009:C:H42	32:2a:1014:G:H1	1.36	0.73
32:2a:1117:G:H2'	32:2a:1118:U:H5'	1.70	0.73
1:1A:740:U:OP1	3:1D:59:LYS:NZ	2.21	0.73
1:1A:799:C:O5'	59:1A:3959:HOH:O	2.06	0.73
1:1A:806:G:OP1	59:1A:4109:HOH:O	2.04	0.73
1:1A:1533:G:O6	59:1A:4136:HOH:O	2.05	0.73
1:1A:2073:G:OP2	59:1A:4162:HOH:O	2.07	0.73
1:1A:2522:U:O2'	59:1A:4147:HOH:O	2.06	0.73
1:1A:2798:U:OP1	4:1E:69:LYS:NZ	2.21	0.73
3:1D:80:ALA:HB3	3:1D:94:LEU:CD1	2.17	0.73
7:1H:113:VAL:HG11	7:1H:151:ILE:HD13	1.70	0.73
11:1P:100:LEU:HD12	11:1P:112:LEU:CD1	2.19	0.73
17:1V:81:TYR:HE1	17:1V:83:ARG:HG2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:104:C:H2'	32:1a:105:G:O4'	1.87	0.73
32:1a:111:G:OP2	59:1a:2032:HOH:O	2.06	0.73
32:1a:542:G:OP1	59:1a:2014:HOH:O	2.06	0.73
33:1b:185:ILE:CG2	33:1b:199:TYR:HB2	2.14	0.73
1:2A:177:G:OP1	59:2A:3746:HOH:O	2.05	0.73
1:2A:605:G:OP2	16:2U:10:ARG:HD2	1.87	0.73
1:2A:628:U:OP2	5:2F:104:LYS:NZ	2.20	0.73
1:2A:740:U:O4	59:2A:3743:HOH:O	2.05	0.73
1:2A:990:G:N2	1:2A:1015:C:O2	2.18	0.73
1:2A:1701:A:OP1	59:2A:3742:HOH:O	2.05	0.73
32:2a:569:G:O2'	43:2l:8:ASN:ND2	2.21	0.73
32:2a:835:C:H2'	32:2a:836:G:O4'	1.87	0.73
34:2c:180:ALA:HB1	34:2c:203:PHE:CE1	2.23	0.73
1:1A:903:C:H1'	22:10:26:TYR:HE1	1.54	0.73
1:1A:1528:G:H2'	1:1A:1529:G:H8	1.54	0.73
1:1A:2038:U:OP1	59:1A:4165:HOH:O	2.07	0.73
1:1A:2051:A:OP2	59:1A:4161:HOH:O	2.06	0.73
1:1A:2091:G:OP2	59:1A:4126:HOH:O	2.05	0.73
3:1D:77:ALA:HB2	3:1D:97:TYR:CD1	2.24	0.73
7:1H:149:ARG:HA	7:1H:162:ILE:HG21	1.69	0.73
32:1a:616:A:H5'	32:1a:617:G:OP2	1.88	0.73
32:1a:1094:A:H2'	32:1a:1095:C:C6	2.22	0.73
35:1d:209:ARG:O	59:1d:602:HOH:O	2.06	0.73
39:1h:119:LEU:HD11	39:1h:127:LEU:HD22	1.69	0.73
47:1p:56:ALA:O	47:1p:60:LEU:HD13	1.88	0.73
1:2A:1200:A:OP2	59:2A:3736:HOH:O	2.04	0.73
1:2A:1233:A:OP2	59:2A:3758:HOH:O	2.06	0.73
1:2A:1649:C:OP1	59:2A:3761:HOH:O	2.06	0.73
1:2A:2563:OMU:OP2	59:2A:3751:HOH:O	2.06	0.73
1:2A:2664:U:OP2	1:2A:2665:A:O2'	2.04	0.73
3:2D:80:ALA:HB3	3:2D:94:LEU:HD12	1.68	0.73
3:2D:132:PRO:HG3	3:2D:190:TYR:HE1	1.52	0.73
3:2D:165:ILE:HG12	3:2D:175:LEU:HD21	1.69	0.73
32:2a:348:C:OP2	59:2a:1917:HOH:O	2.05	0.73
32:2a:804:U:OP1	59:2a:1916:HOH:O	2.05	0.73
32:2a:1324:C:H2'	32:2a:1325:G:H8	1.53	0.73
1:1A:963:A:N3	2:1B:80:U:O2'	2.20	0.73
1:1A:1096:G:H2'	1:1A:1097:C:O4'	1.88	0.73
4:1E:179:GLU:CB	4:1E:181:LEU:HD13	2.19	0.73
5:1F:51:THR:CG2	5:1F:92:PRO:HD2	2.19	0.73
14:1S:74:ALA:HA	14:1S:110:LEU:HD13	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1S:96:GLY:O	14:1S:100:ALA:N	2.20	0.73
32:1a:1255:G:H2'	32:1a:1256:G:O4'	1.89	0.73
32:1a:1330:U:C4'	40:1i:120:ARG:HD2	2.15	0.73
36:1e:78:HIS:HB2	39:1h:104:ARG:CD	2.17	0.73
38:1g:59:LEU:O	38:1g:63:LYS:HG3	1.88	0.73
46:1o:16:ALA:CB	46:1o:21:ASP:HB3	2.13	0.73
1:2A:1040:C:OP2	16:2U:54:LYS:NZ	2.20	0.73
1:2A:1081:G:O2'	1:2A:1082:G:H5'	1.89	0.73
1:2A:1737:C:H2'	1:2A:1738:U:H5'	1.70	0.73
1:2A:1828:U:C5	3:2D:274:ARG:NH1	2.51	0.73
1:2A:2537:G:O6	59:2A:3749:HOH:O	2.06	0.73
1:2A:2703:C:O2	1:2A:2856:U:O2'	2.07	0.73
5:2F:98:SER:O	59:2F:401:HOH:O	2.05	0.73
22:20:40:GLN:OE1	22:20:44:ARG:HB2	1.89	0.73
24:22:1:MET:HE1	24:22:9:GLN:OE1	1.89	0.73
32:2a:601:G:H4'	47:2p:44:THR:OG1	1.87	0.73
32:2a:1296:C:H2'	32:2a:1297:U:C6	2.23	0.73
44:2m:13:LYS:O	44:2m:44:ARG:HA	1.88	0.73
1:1A:1504:C:H4'	1:1A:1505:G:O4'	1.89	0.73
1:1A:1823:C:OP1	59:1A:4122:HOH:O	2.05	0.73
1:1A:2017:C:H4'	1:1A:2018:G:OP1	1.88	0.73
1:1A:2260:U:O2'	59:1A:4163:HOH:O	2.07	0.73
4:1E:93:VAL:N	59:1E:410:HOH:O	2.09	0.73
5:1F:96:ASP:OD1	5:1F:98:SER:OG	2.06	0.73
16:1U:90:VAL:HG12	16:1U:95:LEU:HD12	1.70	0.73
21:1Z:28:MET:HE1	21:1Z:61:LEU:HD21	1.69	0.73
32:1a:1046:C:OP2	32:1a:1047:G:O2'	2.06	0.73
39:1h:53:VAL:O	39:1h:56:LYS:N	2.16	0.73
42:1k:45:GLY:O	42:1k:48:ILE:HG13	1.88	0.73
43:1l:102:ARG:HB3	43:1l:109:GLY:HA2	1.70	0.73
1:2A:10:G:H2'	1:2A:11:U:H5'	1.68	0.73
1:2A:706:G:H5"	5:2F:99:TYR:CD2	2.24	0.73
1:2A:1940:A:O3'	32:2a:1495:G:H1'	1.88	0.73
1:2A:2386:G:N2	1:2A:2389:A:OP2	2.21	0.73
4:2E:61:ARG:HB2	4:2E:62:PRO:HD3	1.71	0.73
6:2G:138:GLN:NE2	6:2G:149:VAL:HG23	2.02	0.73
10:2O:86:ILE:N	59:2O:301:HOH:O	2.07	0.73
11:2P:59:LEU:HD22	11:2P:60:MET:HE2	1.70	0.73
25:23:8:LEU:O	25:23:32:GLN:N	2.22	0.73
32:2a:981:G:N2	32:2a:1021:C:N3	2.33	0.73
32:2a:1303:C:O2'	50:2s:77:THR:HG21	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:188:LEU:HD11	34:2c:195:VAL:CG1	2.19	0.73
37:2f:4:TYR:HA	37:2f:93:SER:H	1.53	0.73
44:2m:108:ARG:NH1	44:2m:114:ARG:HA	2.04	0.73
48:2q:6:LEU:O	48:2q:59:ILE:HG12	1.89	0.73
1:1A:542:G:OP1	59:1A:4135:HOH:O	2.05	0.73
1:1A:631:A:OP1	59:1A:4125:HOH:O	2.05	0.73
1:1A:753:G:O6	59:1A:4164:HOH:O	2.07	0.73
1:1A:851:G:O2'	59:1A:4154:HOH:O	2.06	0.73
1:1A:1002:U:H4'	59:1A:4006:HOH:O	1.88	0.73
1:1A:1308:U:O2'	59:1A:4002:HOH:O	1.99	0.73
1:1A:2620:U:OP2	59:1A:4168:HOH:O	2.07	0.73
4:1E:119:ARG:HD3	4:1E:160:TYR:HB2	1.71	0.73
17:1V:80:GLN:O	59:1V:305:HOH:O	2.06	0.73
32:1a:1086:C:OP1	33:1b:96:ARG:NH2	2.22	0.73
50:1s:15:LEU:HD22	50:1s:35:SER:CB	2.18	0.73
1:2A:519:G:H1'	18:2W:57:ASN:HD22	1.53	0.73
1:2A:590:U:N3	1:2A:593:A:OP2	2.17	0.73
1:2A:593:A:OP1	59:2A:3752:HOH:O	2.06	0.73
1:2A:675:G:OP1	30:28:19:SER:OG	2.05	0.73
1:2A:1638:G:H2'	1:2A:1639:G:C8	2.24	0.73
1:2A:2494:C:N3	12:2Q:124:LYS:NZ	2.36	0.73
1:2A:2630:C:OP1	4:2E:152:LYS:NZ	2.19	0.73
1:2A:2785:C:O2'	1:2A:2786:C:H5'	1.88	0.73
2:2B:14:U:OP2	2:2B:70:C:O2'	2.04	0.73
3:2D:245:PRO:CB	3:2D:253:GLN:HE21	2.01	0.73
12:2Q:137:TYR:HB3	21:2Z:76:LEU:HD11	1.69	0.73
23:21:17:SER:OG	59:21:202:HOH:O	2.05	0.73
32:2a:867:A:H4'	32:2a:868:G:OP1	1.88	0.73
32:2a:962:C:N3	32:2a:1203:G:N2	2.36	0.73
32:2a:1335:G:OP1	52:2u:10:ARG:NH1	2.22	0.73
33:2b:25:ASN:HD21	33:2b:27:LYS:HD2	1.54	0.73
36:2e:35:GLY:CA	36:2e:41:VAL:HG12	2.19	0.73
45:2n:26:ARG:NH1	45:2n:43:CYS:SG	2.61	0.73
51:2t:11:SER:O	51:2t:15:ARG:N	2.18	0.73
1:1A:76:A:H2'	1:1A:77:G:C8	2.23	0.73
1:1A:206:A:OP2	59:1A:4133:HOH:O	2.05	0.73
1:1A:515:G:OP1	59:1A:4156:HOH:O	2.06	0.73
1:1A:1200:A:OP1	59:1A:4146:HOH:O	2.06	0.73
1:1A:1236:G:OP2	59:1A:4182:HOH:O	2.07	0.73
1:1A:1295:G:O4'	59:1A:4120:HOH:O	2.05	0.73
1:1A:2155:A:H62	1:1A:2178:G:H4'	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1O:104:ARG:N	10:1O:122:LEU:O	2.18	0.73
29:17:34:ARG:HG2	29:17:42:LEU:CD2	2.18	0.73
32:1a:275:A:OP2	48:1q:95:TYR:OH	2.02	0.73
32:1a:452:C:H42	32:1a:460:G:H1	1.37	0.73
32:1a:464:C:H2'	32:1a:465:U:O4'	1.88	0.73
32:1a:1470:A:H4'	32:1a:1471:A:C6	2.23	0.73
36:1e:102:ALA:HB2	36:1e:120:THR:HG21	1.70	0.73
37:1f:44:GLY:HA2	37:1f:59:TYR:CE1	2.24	0.73
1:2A:1274:G:O6	59:2A:3756:HOH:O	2.06	0.73
1:2A:1684:C:OP1	1:2A:2721:C:O2'	2.06	0.73
1:2A:1933:A:OP1	59:2A:3775:HOH:O	2.07	0.73
1:2A:2640:A:H1'	1:2A:2641:G:H5"	1.71	0.73
2:2B:50:G:H2'	2:2B:51:G:O4'	1.88	0.73
21:2Z:96:VAL:N	21:2Z:128:VAL:O	2.21	0.73
32:2a:935:U:H2'	32:2a:937:A:N7	2.03	0.73
32:2a:1483:G:OP2	59:2a:1919:HOH:O	2.06	0.73
32:2a:1496:MA6:H93	32:2a:1497:MA6:H102	1.70	0.73
33:2b:115:LEU:HB2	33:2b:145:LEU:HD13	1.69	0.73
1:1A:2690:A:OP2	4:1E:160:TYR:OH	2.07	0.73
4:1E:77:ILE:HD13	4:1E:195:LEU:HD22	1.70	0.73
10:1O:48:PRO:HB3	32:1a:1405:G:C5'	2.16	0.73
17:1V:81:TYR:CE1	17:1V:83:ARG:HG2	2.24	0.73
32:1a:495:C:N4	32:1a:524:G:O6	2.19	0.73
32:1a:1248:G:N2	32:1a:1250:A:H3'	2.04	0.73
51:1t:57:ARG:HH12	51:1t:100:ILE:CD1	2.02	0.73
1:2A:6:G:H2'	1:2A:7:A:C8	2.23	0.73
1:2A:490:G:O6	59:2A:3772:HOH:O	2.07	0.73
1:2A:878:G:OP1	59:2A:3765:HOH:O	2.06	0.73
1:2A:1035:A:OP2	59:2A:3633:HOH:O	2.06	0.73
1:2A:2278:A:OP2	59:2A:3774:HOH:O	2.07	0.73
1:2A:2510:C:N3	59:2A:3911:HOH:O	2.22	0.73
1:2A:2536:G:O6	59:2A:3762:HOH:O	2.06	0.73
1:2A:2583:A:OP1	1:2A:2585:G:O2'	2.06	0.73
4:2E:51:PHE:O	4:2E:75:VAL:HG22	1.89	0.73
11:2P:95:VAL:CG2	11:2P:125:VAL:HA	2.18	0.73
15:2T:102:ILE:HA	15:2T:105:LEU:HD12	1.70	0.73
20:2Y:7:VAL:HG12	20:2Y:8:LYS:H	1.52	0.73
32:2a:832:G:O6	59:2a:1920:HOH:O	2.07	0.73
39:2h:82:HIS:N	39:2h:138:TRP:O	2.21	0.73
1:1A:1311:G:O5'	18:1W:15:ARG:NH2	2.22	0.73
1:1A:1499:A:OP2	59:1A:4129:HOH:O	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1701:A:OP1	59:1A:4155:HOH:O	2.06	0.73
1:1A:1924:G:OP2	59:1A:4167:HOH:O	2.07	0.73
1:1A:2043:U:OP1	59:1A:4130:HOH:O	2.05	0.73
24:12:53:LEU:O	24:12:57:ILE:N	2.18	0.73
32:1a:1496:MA6:H93	32:1a:1497:MA6:H92	1.70	0.73
1:2A:836:C:O5'	59:2A:3766:HOH:O	2.06	0.73
1:2A:2603:G:OP2	59:2A:3782:HOH:O	2.07	0.73
1:2A:2820:G:OP1	4:2E:60:ASN:HB2	1.89	0.73
17:2V:62:LEU:HD13	17:2V:94:LEU:O	1.89	0.73
28:26:38:LYS:HB2	28:26:49:HIS:ND1	2.03	0.73
32:2a:956:A:O2'	32:2a:1304:C:N3	2.22	0.73
1:1A:913:C:O3'	59:1A:4158:HOH:O	2.06	0.72
1:1A:2566:U:O4	59:1A:4119:HOH:O	2.07	0.72
1:1A:2753:A:OP1	31:19:22:ARG:NH1	2.22	0.72
1:1A:2892:A:OP1	27:15:52:TYR:OH	2.06	0.72
9:1N:39:ARG:NH1	59:1N:308:HOH:O	2.18	0.72
11:1P:121:LYS:O	11:1P:123:LEU:N	2.22	0.72
13:1R:100:LEU:O	59:1R:304:HOH:O	2.07	0.72
32:1a:107:G:H2'	32:1a:108:U:H6	1.53	0.72
33:1b:15:VAL:HG23	33:1b:209:ARG:HG3	1.71	0.72
1:2A:1045:A:OP2	1:2A:1199:G:N1	2.22	0.72
1:2A:1313:A:OP1	59:2A:3724:HOH:O	2.06	0.72
1:2A:1341:G:OP2	59:2A:3776:HOH:O	2.07	0.72
1:2A:1957:A:OP2	1:2A:1983:5MC:N4	2.21	0.72
4:2E:6:GLY:HA2	4:2E:28:ALA:O	1.88	0.72
10:2O:48:PRO:HB3	32:2a:1405:G:H5"	1.69	0.72
32:2a:646:G:H2'	32:2a:647:A:C8	2.23	0.72
32:2a:1324:C:H2'	32:2a:1325:G:C8	2.24	0.72
34:2c:127:ARG:CG	34:2c:127:ARG:NE	2.52	0.72
49:2r:73:ALA:O	49:2r:76:LEU:N	2.19	0.72
1:1A:1647:U:OP2	59:1A:4192:HOH:O	2.08	0.72
1:1A:2155:A:O2'	1:1A:2180:G:N3	2.19	0.72
3:1D:185:VAL:HG12	3:1D:186:HIS:H	1.53	0.72
32:1a:549:U:OP2	32:1a:550:G:O2'	2.07	0.72
32:1a:804:U:H4'	32:1a:805:G:OP2	1.89	0.72
32:1a:1011:C:H2'	32:1a:1012:G:H5'	1.71	0.72
32:1a:1043:C:H5"	45:1n:45:ARG:HH12	1.52	0.72
33:1b:68:ILE:H	33:1b:90:MET:HE2	1.53	0.72
1:2A:1889:A:N6	1:2A:1904:G:O2'	2.21	0.72
1:2A:1930:C:N4	1:2A:1942:G:O6	2.15	0.72
1:2A:2723:U:OP1	1:2A:2726:G:H4'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2742:C:OP1	4:2E:185:LYS:NZ	2.22	0.72
4:2E:5:LEU:HD21	4:2E:79:ARG:HB2	1.71	0.72
6:2G:33:ARG:HG2	6:2G:162:THR:OG1	1.89	0.72
6:2G:46:ALA:HB1	6:2G:51:ARG:O	1.88	0.72
6:2G:111:LEU:HB3	6:2G:117:PHE:HE2	1.54	0.72
13:2R:52:ILE:O	13:2R:55:ALA:N	2.22	0.72
21:2Z:135:GLU:C	21:2Z:136:PHE:HD1	1.97	0.72
32:2a:369:A:O2'	32:2a:370:A:H5'	1.88	0.72
32:2a:567:A:O2'	48:2q:91:ARG:NH1	2.22	0.72
32:2a:574:C:O2'	32:2a:575:U:H5'	1.90	0.72
32:2a:1054:C:OP1	36:2e:27:ARG:NH2	2.21	0.72
40:2i:21:PRO:HA	40:2i:59:PHE:CD1	2.24	0.72
51:2t:37:SER:HB3	51:2t:84:LEU:HD21	1.69	0.72
1:1A:535:U:OP2	59:1A:4183:HOH:O	2.07	0.72
1:1A:669:C:H5'	1:1A:670:A:OP2	1.89	0.72
1:1A:1345:U:H4'	1:1A:1346:A:H5"	1.69	0.72
1:1A:1996:G:OP2	59:1A:4188:HOH:O	2.07	0.72
1:1A:2134:U:H2'	1:1A:2135:A:H5'	1.70	0.72
1:1A:2623:C:OP1	59:1A:4185:HOH:O	2.07	0.72
6:1G:46:ALA:HB1	6:1G:51:ARG:CA	2.19	0.72
32:1a:151:G:H1	32:1a:160:C:H42	1.35	0.72
32:1a:889:U:OP2	43:1l:97:ARG:NH2	2.21	0.72
32:1a:1327:U:OP1	32:1a:1327:U:H3'	1.89	0.72
47:1p:74:LEU:HB3	47:1p:79:VAL:HG21	1.71	0.72
1:2A:131:C:N4	1:2A:144:G:O6	2.18	0.72
1:2A:1068:U:OP2	59:2A:3780:HOH:O	2.07	0.72
1:2A:1120:C:H4'	12:2Q:59:ARG:NH1	2.05	0.72
1:2A:2442:U:OP1	59:2A:3768:HOH:O	2.06	0.72
1:2A:2468:U:OP2	59:2A:3777:HOH:O	2.07	0.72
1:2A:2573:U:H4'	10:2O:25:LEU:CD2	2.20	0.72
1:2A:2623:C:OP1	59:2A:3767:HOH:O	2.06	0.72
2:2B:22:U:H2'	2:2B:23:G:C8	2.24	0.72
6:2G:60:LEU:HD23	6:2G:68:PRO:CG	2.19	0.72
17:2V:52:VAL:HG21	17:2V:55:ALA:HB3	1.70	0.72
21:2Z:7:ALA:O	21:2Z:62:PRO:HD3	1.89	0.72
21:2Z:144:LEU:HD21	21:2Z:150:LEU:HD11	1.71	0.72
21:2Z:153:SER:HB3	21:2Z:167:PRO:HB3	1.70	0.72
32:2a:1117:G:H1	32:2a:1123:C:N4	1.87	0.72
35:2d:62:GLN:O	35:2d:66:ARG:N	2.15	0.72
39:2h:63:LEU:HB3	39:2h:65:TYR:CE1	2.21	0.72
44:2m:90:LEU:CD2	44:2m:93:ARG:HH21	2.00	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:174:G:O6	59:1A:4148:HOH:O	2.06	0.72
1:1A:177:G:O6	1:1A:193:G:O2'	2.04	0.72
1:1A:1330:G:O6	59:1A:4152:HOH:O	2.06	0.72
1:1A:2580:G:O6	59:1A:4177:HOH:O	2.07	0.72
8:1I:48:GLU:HG2	8:1I:52:ARG:HH22	1.53	0.72
12:1Q:24:GLY:O	59:1Q:303:HOH:O	2.06	0.72
21:1Z:13:GLU:HB3	21:1Z:18:LEU:HD11	1.72	0.72
25:13:52:HIS:O	59:13:201:HOH:O	2.06	0.72
32:1a:603:U:N3	35:1d:134:ASP:OD1	2.20	0.72
32:1a:1102:C:H2'	32:1a:1103:G:C8	2.23	0.72
33:1b:20:GLU:OE1	33:1b:190:THR:OG1	2.08	0.72
33:1b:115:LEU:HD13	33:1b:145:LEU:HB3	1.72	0.72
34:1c:71:ALA:HA	34:1c:106:VAL:HB	1.71	0.72
1:2A:765:C:H2'	1:2A:766:C:C6	2.24	0.72
1:2A:902:C:H2'	1:2A:903:C:C6	2.23	0.72
1:2A:2131:G:N2	1:2A:2200:C:N3	2.32	0.72
1:2A:2224:U:O2'	1:2A:2225:C:H5'	1.89	0.72
1:2A:2646:C:H4'	4:2E:48:GLN:NE2	2.04	0.72
6:2G:36:LYS:HD3	6:2G:95:ARG:CZ	2.19	0.72
15:2T:23:ARG:HE	15:2T:120:ARG:NH1	1.88	0.72
20:2Y:14:LEU:HD12	20:2Y:23:ARG:O	1.90	0.72
32:2a:737:A:H5"	32:2a:738:C:C6	2.24	0.72
33:2b:74:LYS:HD3	33:2b:76:GLN:HE21	1.54	0.72
33:2b:121:LEU:HG	33:2b:127:ILE:CG2	2.19	0.72
1:1A:52:G:O6	59:1A:4140:HOH:O	2.06	0.72
1:1A:552:A:OP2	9:1N:114:ARG:NH1	2.21	0.72
1:1A:1484:A:OP1	59:1A:4118:HOH:O	2.07	0.72
1:1A:2400:G:O4'	59:1A:4170:HOH:O	2.07	0.72
1:1A:2586:C:H2'	1:1A:2589:G:O6	1.89	0.72
59:1A:4022:HOH:O	9:1N:72:TYR:OH	2.08	0.72
3:1D:237:GLU:OE1	59:1D:404:HOH:O	2.06	0.72
11:1P:100:LEU:CD1	11:1P:112:LEU:HD11	2.17	0.72
37:1f:15:ASP:OD1	37:1f:18:GLN:N	2.17	0.72
1:2A:533:C:O3'	59:2A:3759:HOH:O	2.06	0.72
1:2A:819:U:H4'	3:2D:46:GLN:O	1.89	0.72
1:2A:957:C:OP1	12:2Q:9:TYR:OH	2.06	0.72
1:2A:2247:C:H2'	1:2A:2248:G:O4'	1.89	0.72
22:20:58:THR:OG1	59:20:202:HOH:O	2.07	0.72
31:29:1:MET:SD	31:29:35:ARG:HB2	2.29	0.72
32:2a:19:C:H5"	36:2e:127:ASN:HD21	1.53	0.72
32:2a:500:PSU:O2	59:2a:1923:HOH:O	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:585:C:H2'	32:2a:586:A:C8	2.20	0.72
32:2a:703:C:O2'	49:2r:50:ILE:O	2.05	0.72
32:2a:1287:G:N2	32:2a:1313:G:H1'	2.04	0.72
36:2e:110:LEU:HD23	36:2e:115:VAL:HG11	1.72	0.72
45:2n:48:ALA:HB2	45:2n:53:LEU:HD12	1.70	0.72
1:1A:230:G:O2'	1:1A:242:G:O6	2.08	0.72
1:1A:406:U:OP1	59:1A:4157:HOH:O	2.06	0.72
1:1A:2184:C:OP2	1:1A:2185:C:N4	2.21	0.72
1:1A:2565:U:O4	59:1A:4119:HOH:O	2.05	0.72
8:1I:38:LEU:HB3	8:1I:40:THR:HG23	1.71	0.72
32:1a:722:C:H2'	32:1a:723:C:C6	2.24	0.72
32:1a:893:A:H3'	32:1a:894:G:H5"	1.70	0.72
32:1a:1156:G:O2'	32:1a:1157:G:H5'	1.88	0.72
36:1e:78:HIS:ND1	39:1h:104:ARG:HD2	2.05	0.72
37:1f:10:LEU:HD13	37:1f:61:LEU:HD13	1.71	0.72
1:2A:247:G:O2'	1:2A:645:A:O2'	2.04	0.72
1:2A:491:A:OP1	29:27:34:ARG:NH1	2.22	0.72
1:2A:902:C:OP1	59:2A:3771:HOH:O	2.07	0.72
1:2A:1115:A:H2'	1:2A:1116:G:C8	2.25	0.72
1:2A:1129:A:H3'	1:2A:1130:A:C4'	2.20	0.72
1:2A:1691:G:C5'	1:2A:1692:C:H5'	2.19	0.72
1:2A:2005:G:O6	59:2A:3783:HOH:O	2.07	0.72
1:2A:2463:C:OP2	59:2A:3773:HOH:O	2.07	0.72
5:2F:20:LEU:CD2	5:2F:22:ALA:H	2.03	0.72
24:22:64:LEU:O	24:22:68:ARG:HG2	1.89	0.72
26:24:2:LYS:HB2	26:24:5:ILE:CD1	2.19	0.72
28:26:5:VAL:HG22	28:26:26:ASN:OD1	1.90	0.72
32:2a:92:G:O2'	32:2a:93:U:H5'	1.90	0.72
32:2a:121:G:O2'	32:2a:122:G:H5'	1.90	0.72
32:2a:401:U:OP1	32:2a:402:G:O2'	2.03	0.72
32:2a:485:C:OP1	43:2l:117:ARG:NH2	2.23	0.72
32:2a:955:A:O3'	32:2a:958:C:N4	2.22	0.72
33:2b:115:LEU:O	33:2b:119:GLU:N	2.21	0.72
41:2j:62:HIS:O	45:2n:59:ALA:N	2.20	0.72
1:1A:22:G:OP1	1:1A:528:U:N3	2.21	0.72
1:1A:415:G:O2'	59:1A:4174:HOH:O	2.07	0.72
1:1A:2188:U:H2'	1:1A:2189:G:C8	2.25	0.72
1:1A:2281:G:O2'	59:1A:4057:HOH:O	2.02	0.72
2:1B:5:C:N4	2:1B:116:G:O6	2.17	0.72
9:1N:94:HIS:HB3	9:1N:97:ARG:HD3	1.71	0.72
11:1P:56:SER:OG	11:1P:61:ARG:HD2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:146:ILE:HG12	21:1Z:174:VAL:HG12	1.71	0.72
26:14:67:TYR:HB2	50:1s:16:LEU:HD21	1.71	0.72
32:1a:133:G:O6	32:1a:221:C:N4	2.17	0.72
32:1a:841:U:OP1	59:1a:2031:HOH:O	2.06	0.72
32:1a:1109:U:P	41:1j:5:ARG:HH22	2.12	0.72
32:1a:1174:C:O2	36:1e:25:ARG:NH2	2.22	0.72
33:1b:9:GLU:HG3	33:1b:217:ARG:HH22	1.55	0.72
36:1e:39:GLY:O	36:1e:69:VAL:HG22	1.90	0.72
40:1i:37:PHE:CZ	40:1i:74:ILE:HG12	2.24	0.72
43:1l:27:LEU:HD23	43:1l:30:ALA:O	1.89	0.72
49:1r:33:ASP:OD2	49:1r:36:ASN:HB2	1.90	0.72
1:2A:2874:U:OP2	1:2A:2875:U:O2'	2.06	0.72
11:2P:112:LEU:HD22	11:2P:127:ALA:CB	2.19	0.72
12:2Q:21:THR:OG1	12:2Q:98:LYS:O	2.06	0.72
14:2S:39:ILE:HD12	14:2S:49:VAL:CB	2.20	0.72
16:2U:80:ILE:H	16:2U:80:ILE:HD12	1.53	0.72
20:2Y:7:VAL:HG11	20:2Y:27:VAL:HG21	1.70	0.72
32:2a:673:C:O2'	32:2a:689:U:O2'	1.89	0.72
33:2b:57:PHE:CE2	33:2b:185:ILE:HD11	2.23	0.72
33:2b:75:LYS:HA	33:2b:78:GLN:HG2	1.72	0.72
1:1A:2854:G:N7	59:1A:4385:HOH:O	2.22	0.72
3:1D:52:ARG:O	59:1D:406:HOH:O	2.07	0.72
5:1F:178:PRO:HB3	5:1F:198:ALA:HB1	1.71	0.72
10:1O:119:PRO:HB2	15:1T:68:TYR:CD2	2.25	0.72
12:1Q:42:ILE:O	12:1Q:95:ALA:N	2.22	0.72
32:1a:1166:G:H2'	32:1a:1167:G:C8	2.24	0.72
33:1b:168:THR:OG1	33:1b:192:SER:HA	1.89	0.72
36:1e:57:LYS:HG2	36:1e:61:TYR:HE2	1.52	0.72
39:1h:11:THR:HG22	39:1h:15:ASN:ND2	2.05	0.72
44:1m:45:VAL:HA	44:1m:48:LEU:HG	1.72	0.72
1:2A:658:C:H2'	1:2A:659:C:H6	1.54	0.72
1:2A:1084:G:O2'	1:2A:1085:C:H5'	1.88	0.72
1:2A:1397:U:OP1	59:2A:3769:HOH:O	2.06	0.72
1:2A:1717:U:OP2	59:2A:3797:HOH:O	2.08	0.72
1:2A:1834:C:H42	1:2A:1843:G:H1	1.38	0.72
1:2A:2123:U:H2'	1:2A:2124:C:C6	2.25	0.72
1:2A:2136:G:H3'	1:2A:2137:G:C5'	2.20	0.72
1:2A:2246:G:O6	59:2A:3748:HOH:O	2.05	0.72
1:2A:2397:C:O2'	59:2A:3796:HOH:O	2.08	0.72
2:2B:42:C:O2	6:2G:92:VAL:HA	1.89	0.72
14:2S:25:ARG:CG	14:2S:40:ILE:HB	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:49:C:OP2	59:2a:1913:HOH:O	2.08	0.72
32:2a:521:G:H5"	43:2l:113:ARG:NH1	2.03	0.72
32:2a:1101:C:H1'	32:2a:1161:A:C4	2.24	0.72
39:2h:69:ARG:HD3	39:2h:75:ARG:O	1.89	0.72
41:2j:62:HIS:CB	45:2n:59:ALA:HB3	2.19	0.72
1:1A:451:G:O2'	1:1A:452:C:H5'	1.90	0.72
1:1A:461:C:OP1	59:1A:4187:HOH:O	2.07	0.72
1:1A:908:G:OP1	59:1A:4181:HOH:O	2.07	0.72
1:1A:1622:U:O4	59:1A:4143:HOH:O	2.06	0.72
1:1A:2112:U:O4	59:1A:4106:HOH:O	2.04	0.72
3:1D:175:LEU:HD12	3:1D:185:VAL:HG21	1.71	0.72
3:1D:218:ARG:HB3	3:1D:219:PRO:CD	2.16	0.72
1:2A:325:C:H42	1:2A:338:G:H1	1.34	0.72
1:2A:867:A:O2'	1:2A:990:G:OP2	2.07	0.72
1:2A:1806:G:O6	59:2A:3779:HOH:O	2.07	0.72
1:2A:2135:A:H3'	1:2A:2136:G:H8	1.55	0.72
1:2A:2282:G:OP1	22:20:18:ALA:HB1	1.89	0.72
1:2A:2815:G:H2'	1:2A:2816:G:H8	1.55	0.72
6:2G:9:ARG:NH1	6:2G:13:GLU:OE2	2.21	0.72
14:2S:5:THR:H	14:2S:8:GLU:HB2	1.54	0.72
32:2a:1508:G:O2'	32:2a:1509:A:O4'	2.07	0.72
33:2b:178:ARG:HH22	39:2h:74:PRO:HB3	1.55	0.72
1:1A:438:A:OP1	59:1A:4195:HOH:O	2.08	0.72
1:1A:839:A:O2'	59:1A:4153:HOH:O	2.06	0.72
1:1A:1052:C:O2'	59:1A:4184:HOH:O	2.07	0.72
1:1A:1389:G:O6	59:1A:4180:HOH:O	2.07	0.72
1:1A:1572:G:H5"	1:1A:1573:A:OP1	1.89	0.72
1:1A:2281:G:OP2	59:1A:4160:HOH:O	2.06	0.72
3:1D:6:PHE:O	59:1D:405:HOH:O	2.07	0.72
10:1O:13:ASN:ND2	10:1O:96:THR:OG1	2.22	0.72
21:1Z:183:LEU:O	21:1Z:186:GLU:N	2.22	0.72
31:19:30:PRO:O	59:19:202:HOH:O	2.07	0.72
32:1a:61:A:N1	32:1a:101:G:O2'	2.23	0.72
32:1a:558:A:O2'	32:1a:860:C:O2'	1.96	0.72
32:1a:580:C:OP2	59:1a:2021:HOH:O	2.06	0.72
32:1a:917:G:OP1	38:1g:102:ARG:NH1	2.21	0.72
32:1a:1189:2MG:H2'	32:1a:1190:C:C6	2.25	0.72
33:1b:185:ILE:HG22	33:1b:199:TYR:CB	2.17	0.72
34:1c:125:GLU:OE2	34:1c:190:ARG:N	2.23	0.72
1:2A:2151:U:H2'	1:2A:2179:A:N6	2.05	0.72
1:2A:2758:U:N3	1:2A:2768:U:O4	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:2G:59:GLU:HA	6:2G:62:LEU:HD12	1.70	0.72
12:2Q:54:MET:HE2	12:2Q:118:LEU:HD23	1.70	0.72
21:2Z:179:ASP:O	21:2Z:182:LYS:HG2	1.90	0.72
25:23:23:LEU:CD1	25:23:50:VAL:HG11	2.19	0.72
32:2a:266:A:OP2	59:2a:1922:HOH:O	2.07	0.72
32:2a:543:A:C4'	32:2a:544:U:H3'	2.18	0.72
32:2a:691:C:OP1	42:2k:85:ARG:NH1	2.23	0.72
34:2c:54:ARG:H	34:2c:69:HIS:HB2	1.55	0.72
35:2d:187:ARG:NH2	35:2d:193:ASP:OD2	2.23	0.72
36:2e:34:VAL:HG12	36:2e:62:ALA:HB1	1.71	0.72
38:2g:26:PHE:CE2	38:2g:30:ILE:HD11	2.24	0.72
38:2g:100:ALA:O	38:2g:104:LEU:HD13	1.90	0.72
43:2l:55:VAL:HG13	43:2l:68:ALA:O	1.90	0.72
1:1A:1055:A:OP2	59:1A:4150:HOH:O	2.06	0.71
1:1A:1095:A:H2'	1:1A:1096:G:O4'	1.90	0.71
1:1A:1217:G:O2'	1:1A:1218:A:O5'	2.05	0.71
1:1A:1262:C:C2'	1:1A:1263:G:H5'	2.19	0.71
1:1A:1719:U:O2	59:1A:4198:HOH:O	2.08	0.71
1:1A:2440:G:OP1	59:1A:3999:HOH:O	2.08	0.71
1:1A:2513:G:N7	59:1A:4400:HOH:O	2.23	0.71
59:1A:4147:HOH:O	4:1E:138:PRO:O	2.08	0.71
5:1F:116:ASP:OD2	11:1P:1:MET:N	2.16	0.71
9:1N:70:LYS:HD3	9:1N:87:LEU:HD12	1.70	0.71
23:11:3:LYS:HG3	23:11:4:VAL:N	2.05	0.71
32:1a:233:C:OP2	48:1q:40:LYS:NZ	2.22	0.71
32:1a:543:A:H4'	32:1a:544:U:H3'	1.71	0.71
32:1a:922:G:OP1	59:1a:2036:HOH:O	2.08	0.71
42:1k:16:SER:HA	42:1k:79:SER:O	1.90	0.71
44:1m:15:VAL:HG23	44:1m:16:ASP:H	1.54	0.71
1:2A:75:C:O2'	24:22:14:ARG:NH2	2.22	0.71
1:2A:928:G:O6	1:2A:939:C:N4	2.18	0.71
1:2A:1505:G:O3'	1:2A:1506:A:H3'	1.90	0.71
1:2A:1975:G:C2	1:2A:2562:C:H5"	2.25	0.71
1:2A:2140:A:H61	1:2A:2189:G:H21	1.35	0.71
1:2A:2588:A:H2'	1:2A:2625:A:N6	2.05	0.71
1:2A:2833:C:H2'	1:2A:2834:C:H5'	1.71	0.71
9:2N:72:TYR:N	9:2N:85:ILE:O	2.23	0.71
32:2a:78:G:O2'	32:2a:79:G:H5'	1.89	0.71
32:2a:527:C:H2'	32:2a:528:G:H8	1.55	0.71
32:2a:621:G:H2'	32:2a:622:G:H8	1.55	0.71
32:2a:1361:C:OP1	38:2g:6:ARG:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:109:ILE:HD12	39:2h:111:ILE:HD11	1.72	0.71
40:2i:4:TYR:HB2	40:2i:19:LEU:HB2	1.71	0.71
1:1A:186:C:N4	1:1A:236:G:O6	2.17	0.71
1:1A:1092:G:H2'	1:1A:1155:G:H22	1.52	0.71
1:1A:1094:C:H1'	1:1A:1158:U:O2'	1.90	0.71
1:1A:1618:A:O2'	59:1A:4176:HOH:O	2.07	0.71
1:1A:1752:U:OP1	59:1A:4203:HOH:O	2.08	0.71
1:1A:1978:C:OP1	59:1A:4210:HOH:O	2.09	0.71
1:1A:2316:A:H5"	6:1G:134:GLY:HA3	1.72	0.71
1:1A:2719:G:N3	59:1A:4383:HOH:O	2.22	0.71
2:1B:37:C:O2'	59:1B:305:HOH:O	2.07	0.71
4:1E:2:LYS:HA	4:1E:84:PHE:CE1	2.25	0.71
4:1E:107:THR:OG1	59:1E:409:HOH:O	2.09	0.71
10:1O:68:GLU:HA	10:1O:77:ILE:O	1.89	0.71
16:1U:37:GLU:O	59:1U:305:HOH:O	2.07	0.71
17:1V:72:VAL:O	59:1V:306:HOH:O	2.07	0.71
20:1Y:4:LYS:O	59:1Y:603:HOH:O	2.06	0.71
32:1a:905:G:H1	32:1a:1373:U:H3	0.78	0.71
32:1a:1382:C:O2	32:1a:1480:A:N6	2.22	0.71
35:1d:109:GLY:HA3	35:1d:165:MET:HE2	1.71	0.71
35:1d:156:GLU:O	35:1d:160:GLN:HG2	1.89	0.71
36:1e:74:GLY:HA3	36:1e:116:THR:HG22	1.71	0.71
36:1e:78:HIS:HD1	39:1h:104:ARG:HD2	1.53	0.71
39:1h:12:ARG:CD	39:1h:26:VAL:HG12	2.20	0.71
40:1i:5:TYR:O	40:1i:87:GLN:NE2	2.23	0.71
1:2A:236:G:OP1	59:2A:3784:HOH:O	2.07	0.71
3:2D:77:ALA:HB2	3:2D:97:TYR:CD1	2.24	0.71
5:2F:158:THR:C	5:2F:178:PRO:HD3	2.15	0.71
7:2H:22:GLY:O	7:2H:37:VAL:N	2.22	0.71
32:2a:25:U:O2'	32:2a:508:G:O2'	2.06	0.71
32:2a:29:G:O2'	32:2a:292:U:H5"	1.90	0.71
32:2a:984:A:H5"	32:2a:985:C:C5	2.25	0.71
32:2a:1034:C:N3	32:2a:1189:2MG:N2	2.35	0.71
41:2j:44:VAL:HG22	41:2j:66:ARG:HG2	1.72	0.71
44:2m:4:ILE:HG23	44:2m:22:ILE:HD11	1.71	0.71
47:2p:74:LEU:HB3	47:2p:79:VAL:HB	1.71	0.71
1:1A:330:G:H21	1:1A:353:A:H62	1.36	0.71
1:1A:471:G:OP1	16:1U:3:ARG:NH1	2.20	0.71
1:1A:795:C:OP2	59:1A:4186:HOH:O	2.07	0.71
1:1A:1101:G:N1	1:1A:1147:C:OP2	2.22	0.71
1:1A:1699:G:H1'	1:1A:1700:A:OP2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1810:A:OP1	59:1A:4212:HOH:O	2.09	0.71
1:1A:1911:A:OP2	59:1A:4207:HOH:O	2.08	0.71
1:1A:2217:C:OP2	59:1A:4175:HOH:O	2.07	0.71
1:1A:2867:C:OP2	59:1A:4171:HOH:O	2.07	0.71
32:1a:137:G:O2'	32:1a:203:A:N1	2.20	0.71
32:1a:251:G:H1'	48:1q:16:GLN:NE2	2.06	0.71
32:1a:623:G:H2'	32:1a:624:A:C8	2.25	0.71
36:1e:149:GLU:HA	36:1e:152:ARG:CG	2.20	0.71
38:1g:78:ARG:NH1	38:1g:154:TYR:O	2.22	0.71
1:2A:555:C:OP2	59:2A:3798:HOH:O	2.08	0.71
1:2A:787:G:O6	1:2A:802:C:N4	2.19	0.71
1:2A:847:G:OP2	59:2A:3781:HOH:O	2.07	0.71
1:2A:1644:C:OP1	59:2A:3786:HOH:O	2.07	0.71
1:2A:2001:G:O2'	1:2A:2003:C:OP2	2.06	0.71
6:2G:117:PHE:HZ	6:2G:179:PRO:HG2	1.55	0.71
9:2N:71:ILE:HG21	9:2N:84:LYS:HB3	1.71	0.71
32:2a:1238:A:H61	32:2a:1260:U:H1'	1.55	0.71
37:2f:49:ALA:O	37:2f:50:TYR:HB3	1.87	0.71
40:2i:17:VAL:HG23	40:2i:63:ILE:HG12	1.72	0.71
1:1A:402:C:OP1	59:1A:4172:HOH:O	2.07	0.71
1:1A:442:C:N4	1:1A:2418:G:O6	2.14	0.71
1:1A:823:A:O2'	1:1A:824:G:H5'	1.90	0.71
1:1A:1113:G:O2'	1:1A:1141:A:O2'	2.05	0.71
1:1A:2081:A:OP1	59:1A:4200:HOH:O	2.08	0.71
1:1A:2107:U:H2'	1:1A:2108:G:C8	2.24	0.71
1:1A:2417:U:OP1	59:1A:4127:HOH:O	2.07	0.71
1:1A:2590:C:H2'	1:1A:2591:U:O4'	1.89	0.71
1:1A:2770:A:OP2	59:1A:4137:HOH:O	2.07	0.71
4:1E:39:PRO:O	4:1E:43:GLY:HA2	1.90	0.71
32:1a:215:C:H2'	32:1a:216:G:O4'	1.90	0.71
32:1a:440:G:O6	32:1a:474:C:N4	2.17	0.71
32:1a:493:A:H5"	35:1d:55:ALA:HB2	1.71	0.71
32:1a:638:G:O6	32:1a:738:C:N4	2.17	0.71
33:1b:194:PRO:O	33:1b:196:LEU:N	2.24	0.71
43:1l:24:VAL:HB	43:1l:27:LEU:HD13	1.72	0.71
1:2A:135:G:H1	1:2A:140:C:H42	1.38	0.71
1:2A:932:C:H2'	1:2A:933:A:C4'	2.20	0.71
1:2A:2216:C:O2'	1:2A:2217:C:H5'	1.90	0.71
4:2E:185:LYS:O	59:2E:405:HOH:O	2.08	0.71
9:2N:4:TYR:HE2	16:2U:100:VAL:CG1	2.04	0.71
16:2U:94:ASN:O	16:2U:98:LEU:HD23	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:135:A:H2'	32:2a:136:A:C8	2.25	0.71
32:2a:853:C:O2'	39:2h:14:ARG:NE	2.13	0.71
32:2a:881:G:OP1	59:2a:1921:HOH:O	2.07	0.71
42:2k:18:ARG:HB2	42:2k:33:THR:OG1	1.89	0.71
49:2r:59:SER:N	49:2r:62:GLU:OE2	2.22	0.71
1:1A:6:G:H2'	1:1A:7:A:C8	2.24	0.71
1:1A:383:G:O2'	1:1A:384:G:H5'	1.89	0.71
1:1A:1983:5MC:OP1	59:1A:4178:HOH:O	2.07	0.71
1:1A:2101:G:OP1	23:11:35:THR:HG21	1.91	0.71
1:1A:2474:C:O2'	1:1A:2475:C:H5'	1.91	0.71
5:1F:9:ILE:N	5:1F:20:LEU:O	2.14	0.71
5:1F:31:HIS:NE2	5:1F:35:GLU:OE2	2.23	0.71
5:1F:189:THR:OG1	59:1F:406:HOH:O	2.08	0.71
12:1Q:2:LEU:HD12	12:1Q:69:PHE:CE1	2.24	0.71
32:1a:30:G:O2'	32:1a:31:U:H5'	1.90	0.71
32:1a:1482:G:OP1	32:1a:1485:A:H4'	1.91	0.71
33:1b:153:ARG:O	33:1b:156:LYS:HE3	1.90	0.71
47:1p:19:ILE:HG22	47:1p:37:GLY:CA	2.20	0.71
1:2A:720:G:N3	5:2F:74:ARG:NH1	2.39	0.71
1:2A:2004:C:C2'	1:2A:2005:G:H5"	2.19	0.71
1:2A:2631:C:H1'	4:2E:156:MET:HB2	1.71	0.71
6:2G:11:TYR:HA	6:2G:15:VAL:CB	2.16	0.71
6:2G:107:LEU:HD11	6:2G:178:PHE:CE1	2.25	0.71
22:20:46:LYS:HB2	22:20:78:TYR:CD1	2.25	0.71
32:2a:659:A:H1'	42:2k:116:HIS:HD2	1.52	0.71
34:2c:188:LEU:HD11	34:2c:195:VAL:HG13	1.72	0.71
35:2d:61:LYS:HD3	35:2d:206:PHE:HE2	1.53	0.71
1:1A:1097:C:C3'	1:1A:1098:C:H5"	2.20	0.71
1:1A:2084:C:OP1	59:1A:4197:HOH:O	2.08	0.71
1:1A:2589:G:OP2	59:1A:4216:HOH:O	2.09	0.71
3:1D:21:PHE:O	3:1D:23:GLU:N	2.23	0.71
21:1Z:6:LYS:HB3	21:1Z:8:TYR:HE1	1.56	0.71
21:1Z:23:LYS:HG3	21:1Z:38:TYR:HE2	1.56	0.71
32:1a:393:A:O2'	32:1a:394:C:H5"	1.91	0.71
32:1a:1043:C:H5"	41:1j:51:ARG:HB3	1.71	0.71
39:1h:82:HIS:N	39:1h:138:TRP:O	2.20	0.71
44:1m:23:TYR:HB3	44:1m:67:GLU:HA	1.71	0.71
49:1r:28:GLU:O	49:1r:29:PHE:HB3	1.89	0.71
1:2A:250:A:N3	1:2A:456:G:O2'	2.17	0.71
1:2A:868:U:OP2	59:2A:3805:HOH:O	2.09	0.71
1:2A:926:G:H2'	1:2A:927:G:H5'	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1032:G:OP2	59:2A:3800:HOH:O	2.08	0.71
1:2A:1612:A:OP1	3:2D:211:ARG:NH1	2.23	0.71
1:2A:1991:A:OP1	59:2A:3791:HOH:O	2.08	0.71
1:2A:2083:A:O3'	59:2A:3790:HOH:O	2.08	0.71
6:2G:107:LEU:HA	6:2G:111:LEU:HG	1.72	0.71
25:23:29:ARG:HB2	25:23:30:ARG:HH11	1.55	0.71
32:2a:1111:C:O2'	32:2a:1112:C:OP1	2.07	0.71
32:2a:1300:A:H4'	50:2s:10:PHE:CE2	2.26	0.71
32:2a:1355:U:H5"	40:2i:71:SER:CB	2.20	0.71
33:2b:93:VAL:HG21	33:2b:97:TRP:CD1	2.26	0.71
36:2e:33:VAL:HG22	36:2e:34:VAL:H	1.55	0.71
1:1A:1719:U:OP1	59:1A:4202:HOH:O	2.08	0.71
1:1A:1885:G:H2'	1:1A:1886:G:H8	1.54	0.71
1:1A:2452:C:OP2	1:1A:2597:C:O2'	2.08	0.71
59:1A:4396:HOH:O	18:1W:42:ARG:NH1	2.23	0.71
4:1E:189:PRO:O	59:1E:408:HOH:O	2.07	0.71
45:1n:15:LYS:C	45:1n:16:PHE:HD1	1.98	0.71
47:1p:20:VAL:HG23	47:1p:35:LYS:HA	1.71	0.71
1:2A:661:A:H2'	11:2P:117:GLU:OE2	1.91	0.71
1:2A:1155:G:H1'	1:2A:1156:A:C8	2.25	0.71
1:2A:1603:C:H5"	1:2A:1604:A:OP2	1.89	0.71
1:2A:1708:C:O2'	1:2A:1709:C:H5'	1.90	0.71
13:2R:50:HIS:O	13:2R:54:LEU:HD13	1.91	0.71
33:2b:163:PHE:CD1	33:2b:185:ILE:HG22	2.25	0.71
42:2k:20:TYR:O	42:2k:31:THR:N	2.21	0.71
44:2m:22:ILE:CG2	44:2m:66:LEU:HD13	2.20	0.71
46:2o:33:THR:HA	46:2o:36:ILE:HD12	1.72	0.71
1:1A:128:G:OP1	59:1A:4208:HOH:O	2.08	0.71
1:1A:354:A:O3'	59:1A:4169:HOH:O	2.07	0.71
1:1A:1899:G:H2'	1:1A:1900:C:C6	2.25	0.71
1:1A:2839:G:N7	59:1A:4407:HOH:O	2.23	0.71
5:1F:91:GLY:O	59:1F:405:HOH:O	2.07	0.71
6:1G:110:ALA:HA	6:1G:140:ILE:O	1.91	0.71
10:1O:119:PRO:HB2	15:1T:68:TYR:CE2	2.26	0.71
12:1Q:103:MET:HE1	12:1Q:125:LEU:HD13	1.73	0.71
23:11:50:ARG:HD2	23:11:57:GLU:OE2	1.90	0.71
25:13:15:TYR:O	25:13:20:LYS:NZ	2.23	0.71
32:1a:292:U:O2'	32:1a:540:C:O2	2.07	0.71
32:1a:548:C:HO2'	39:1h:91:ARG:HH12	1.38	0.71
35:1d:8:VAL:HA	35:1d:11:LEU:HD13	1.73	0.71
35:1d:23:GLY:CA	35:1d:112:VAL:HB	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:1m:36:LYS:HG3	44:1m:59:TYR:CZ	2.26	0.71
1:2A:60:C:OP1	59:2A:3787:HOH:O	2.08	0.71
1:2A:483:G:O2'	1:2A:494:G:O6	2.08	0.71
1:2A:1100:G:H2'	1:2A:1101:G:O4'	1.89	0.71
1:2A:1231:G:H5'	17:2V:81:TYR:CE1	2.26	0.71
1:2A:2200:C:H3'	1:2A:2201:U:C5	2.26	0.71
6:2G:36:LYS:HD2	6:2G:93:THR:CG2	2.21	0.71
6:2G:72:ARG:HG2	6:2G:87:PRO:HA	1.72	0.71
19:2X:34:ALA:O	19:2X:77:LYS:NZ	2.21	0.71
22:20:46:LYS:HE3	22:20:78:TYR:CE1	2.21	0.71
23:21:5:CYS:SG	23:21:62:VAL:HG23	2.30	0.71
46:2o:40:SER:O	46:2o:44:LYS:HG3	1.90	0.71
1:1A:403:C:H42	1:1A:423:G:H1	1.39	0.71
1:1A:594:A:O2'	59:1A:4214:HOH:O	2.09	0.71
1:1A:2045:G:OP1	59:1A:4194:HOH:O	2.08	0.71
1:1A:2207:G:H3'	1:1A:2208:G:H5"	1.73	0.71
1:1A:2712:C:H3'	1:1A:2713:U:C5'	2.20	0.71
17:1V:71:LEU:O	59:1V:307:HOH:O	2.08	0.71
32:1a:686:A:OP2	59:1a:2039:HOH:O	2.09	0.71
32:1a:726:G:OP2	46:1o:35:ARG:NH2	2.24	0.71
32:1a:953:A:C4'	32:1a:1340:U:H1'	2.21	0.71
32:1a:1098:C:H1'	45:1n:61:TRP:O	1.90	0.71
44:1m:19:LEU:HB3	44:1m:25:ILE:CG2	2.19	0.71
50:1s:36:ARG:NH1	50:1s:75:ALA:HB3	2.05	0.71
1:2A:1659:A:OP1	59:2A:3789:HOH:O	2.08	0.71
1:2A:2050:G:OP2	59:2A:3799:HOH:O	2.08	0.71
1:2A:2183:G:O3'	1:2A:2193:U:O2'	2.06	0.71
3:2D:139:GLY:N	3:2D:165:ILE:O	2.23	0.71
4:2E:11:MET:CG	4:2E:24:THR:HG22	2.16	0.71
7:2H:55:PRO:HG2	7:2H:61:HIS:ND1	2.05	0.71
32:2a:562:C:O2'	32:2a:712:A:N3	2.19	0.71
32:2a:782:G:N7	59:2a:1939:HOH:O	2.23	0.71
32:2a:823:U:H5"	32:2a:824:C:H5	1.55	0.71
32:2a:1045:U:H2'	32:2a:1046:C:C6	2.26	0.71
32:2a:1192:C:C2'	32:2a:1193:U:H5"	2.20	0.71
33:2b:178:ARG:HB3	39:2h:72:PRO:HA	1.73	0.71
36:2e:35:GLY:HA3	36:2e:41:VAL:HG12	1.71	0.71
38:2g:18:TYR:HH	38:2g:47:CYS:HG	1.35	0.71
47:2p:9:PHE:N	47:2p:16:HIS:O	2.24	0.71
1:1A:2040:A:O4'	16:1U:34:LYS:HE3	1.90	0.71
6:1G:77:ILE:HB	6:1G:82:LEU:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1O:35:VAL:HG11	10:1O:103:ALA:CB	2.20	0.71
11:1P:98:GLU:CG	11:1P:102:ARG:HH21	2.04	0.71
12:1Q:16:ARG:HH11	12:1Q:18:LYS:HB3	1.56	0.71
21:1Z:19:ARG:O	59:1Z:8102:HOH:O	2.09	0.71
31:19:24:TYR:CE1	31:19:35:ARG:HG3	2.25	0.71
32:1a:1038:A:N7	32:1a:1182:C:N4	2.39	0.71
36:1e:149:GLU:HA	36:1e:152:ARG:HG2	1.71	0.71
52:1u:5:ASP:O	52:1u:11:GLY:HA3	1.91	0.71
1:2A:779:G:N7	59:2A:3915:HOH:O	2.23	0.71
1:2A:2082:G:H2'	1:2A:2512:C:O2'	1.91	0.71
1:2A:2421:G:H2'	1:2A:2422:A:O4'	1.91	0.71
1:2A:2845:U:H2'	1:2A:2846:G:C8	2.25	0.71
20:2Y:73:ARG:HH22	20:2Y:83:THR:HA	1.54	0.71
32:2a:18:U:HO2'	32:2a:1062:G:HO2'	1.26	0.71
32:2a:120:G:H1	32:2a:231:C:H42	1.37	0.71
32:2a:125:A:N6	32:2a:229:C:O2	2.24	0.71
32:2a:609:G:O2'	32:2a:610:U:H5'	1.90	0.71
32:2a:721:A:H2'	32:2a:722:C:C6	2.25	0.71
33:2b:93:VAL:HG11	33:2b:101:MET:SD	2.31	0.71
34:2c:131:ARG:HD3	34:2c:166:GLU:CD	2.16	0.71
39:2h:8:ASP:O	39:2h:12:ARG:N	2.20	0.71
39:2h:26:VAL:HG23	39:2h:59:LEU:HB2	1.71	0.71
39:2h:49:GLU:OE2	39:2h:62:TYR:OH	2.09	0.71
42:2k:17:GLY:HA3	42:2k:77:MET:HE1	1.73	0.71
44:2m:34:LEU:CD1	44:2m:41:PRO:HB3	2.20	0.71
48:2q:90:ILE:HG22	48:2q:94:ASN:ND2	2.06	0.71
50:2s:49:ILE:HD13	50:2s:62:ILE:HD13	1.73	0.71
1:1A:1272:G:O6	59:1A:4179:HOH:O	2.07	0.70
1:1A:1785:A:OP1	59:1A:4225:HOH:O	2.09	0.70
1:1A:2176:G:H2'	1:1A:2177:G:O4'	1.91	0.70
12:1Q:35:VAL:CG1	12:1Q:130:LYS:HB3	2.21	0.70
15:1T:45:PHE:CD1	15:1T:65:LYS:HD2	2.25	0.70
32:1a:111:G:N7	59:1a:2073:HOH:O	2.23	0.70
32:1a:781:C:OP1	42:1k:124:LYS:HD3	1.91	0.70
32:1a:1021:C:H2'	32:1a:1022:C:H6	1.56	0.70
32:1a:1332:A:H61	32:1a:1355:U:H3	1.39	0.70
33:1b:187:LEU:HG	33:1b:201:ILE:O	1.91	0.70
39:1h:12:ARG:HD2	39:1h:26:VAL:HG12	1.72	0.70
44:1m:33:ALA:O	44:1m:37:THR:N	2.12	0.70
1:2A:2469:G:OP2	59:2A:3788:HOH:O	2.08	0.70
1:2A:2641:G:H2'	1:2A:2642:G:C8	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:6:ARG:HB2	21:2Z:195:GLU:O	1.91	0.70
22:20:56:ASP:O	59:20:202:HOH:O	2.07	0.70
32:2a:671:A:H1'	32:2a:672:G:OP2	1.91	0.70
32:2a:1147:G:H1	32:2a:1154:C:H42	0.77	0.70
36:2e:78:HIS:CE1	36:2e:143:ARG:H	2.07	0.70
38:2g:43:PHE:O	38:2g:47:CYS:N	2.19	0.70
1:1A:733:C:H5"	29:17:2:LYS:HE2	1.71	0.70
1:1A:1066:A:O3'	59:1A:4224:HOH:O	2.09	0.70
1:1A:1815:A:H4'	1:1A:2003:C:O2'	1.91	0.70
16:1U:47:TYR:HA	16:1U:50:ARG:HG2	1.73	0.70
18:1W:10:VAL:HG12	18:1W:12:ILE:HG22	1.73	0.70
32:1a:78:G:N1	32:1a:86:U:N3	2.39	0.70
32:1a:1338:G:H2'	32:1a:1339:A:C8	2.24	0.70
32:1a:1399:G:N7	59:1a:2075:HOH:O	2.23	0.70
33:1b:24:TRP:CH2	33:1b:26:PRO:HA	2.26	0.70
37:1f:1:MET:HB3	37:1f:67:MET:O	1.89	0.70
49:1r:56:THR:HB	49:1r:58:LEU:HD13	1.71	0.70
1:2A:608:A:OP2	59:2A:3803:HOH:O	2.09	0.70
1:2A:1243:U:O3'	59:2A:3792:HOH:O	2.08	0.70
1:2A:1962:C:H2'	1:2A:1963:5MC:H5'	1.74	0.70
1:2A:2043:U:O2'	1:2A:2628:C:H5'	1.91	0.70
1:2A:2390:G:O2'	14:2S:17:ARG:NH1	2.22	0.70
4:2E:61:ARG:O	4:2E:65:GLY:N	2.18	0.70
10:2O:64:ARG:HD2	10:2O:79:PHE:CD2	2.26	0.70
18:2W:68:ARG:O	18:2W:109:GLU:HA	1.90	0.70
21:2Z:73:GLN:O	21:2Z:87:ASP:N	2.24	0.70
23:21:75:GLU:HA	23:21:78:LYS:NZ	2.06	0.70
27:25:17:ASP:OD2	59:25:201:HOH:O	2.09	0.70
32:2a:395:G:H2'	32:2a:396:C:C6	2.26	0.70
32:2a:485:C:H42	32:2a:528:G:H1	1.39	0.70
32:2a:1009:C:N4	32:2a:1014:G:N1	2.39	0.70
46:2o:39:LEU:HD23	46:2o:43:LEU:HG	1.73	0.70
1:1A:476:C:OP1	5:1F:52:LYS:NZ	2.23	0.70
3:1D:65:ILE:O	59:1D:408:HOH:O	2.09	0.70
5:1F:51:THR:HG23	5:1F:92:PRO:HD2	1.73	0.70
21:1Z:9:TYR:CE1	21:1Z:61:LEU:HD23	2.27	0.70
25:13:6:VAL:HG13	25:13:54:VAL:CG1	2.21	0.70
32:1a:734:G:N2	46:1o:23:GLY:O	2.19	0.70
35:1d:101:LEU:HD23	35:1d:121:VAL:HG13	1.73	0.70
51:1t:57:ARG:NH1	51:1t:100:ILE:HD12	2.06	0.70
1:2A:1020:G:OP1	59:2A:3795:HOH:O	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1262:C:OP1	59:2A:3801:HOH:O	2.09	0.70
1:2A:1304:G:H2'	1:2A:1305:G:C8	2.26	0.70
1:2A:1797:C:H2'	1:2A:1798:U:H5'	1.73	0.70
1:2A:2043:U:OP1	59:2A:3732:HOH:O	2.08	0.70
1:2A:2120:U:O2	1:2A:2211:G:N2	2.22	0.70
5:2F:133:ASN:C	5:2F:162:LEU:HD23	2.16	0.70
19:2X:68:ARG:HB3	19:2X:69:TYR:CE1	2.26	0.70
32:2a:312:G:O6	32:2a:333:C:N4	2.16	0.70
32:2a:613:G:H3'	32:2a:614:G:H5"	1.74	0.70
32:2a:905:G:HO2'	32:2a:1481:A:H62	1.40	0.70
32:2a:1112:C:O2	32:2a:1113:A:N6	2.24	0.70
36:2e:79:GLU:OE2	39:2h:104:ARG:HA	1.91	0.70
1:1A:1297:G:OP2	16:1U:14:HIS:NE2	2.21	0.70
1:1A:1665:G:N3	59:1A:4413:HOH:O	2.24	0.70
1:1A:2115:G:P	8:1I:22:LYS:HD2	2.30	0.70
1:1A:2273:U:O2'	1:1A:2274:C:H5'	1.91	0.70
1:1A:2694:C:O2	10:1O:70:LYS:NZ	2.24	0.70
32:1a:37:C:O2'	43:1l:117:ARG:NH2	2.25	0.70
32:1a:157:A:H3'	32:1a:158:C:O4'	1.92	0.70
32:1a:337:C:O2'	32:1a:338:C:H5'	1.91	0.70
32:1a:459:G:H2'	32:1a:460:G:H8	1.56	0.70
37:1f:50:TYR:HE1	49:1r:77:GLY:HA2	1.57	0.70
40:1i:81:ILE:HG13	40:1i:82:ALA:N	2.06	0.70
40:1i:112:LYS:HE2	40:1i:116:LYS:O	1.91	0.70
41:1j:57:LYS:O	41:1j:60:ARG:NE	2.11	0.70
44:1m:9:ILE:HD11	44:1m:45:VAL:HG11	1.73	0.70
49:1r:61:LYS:O	49:1r:65:ILE:HG12	1.91	0.70
50:1s:46:GLY:HA2	50:1s:61:TYR:CE1	2.24	0.70
1:2A:990:G:N1	1:2A:1015:C:N3	2.32	0.70
1:2A:2631:C:C1'	4:2E:156:MET:HB2	2.20	0.70
6:2G:41:GLN:O	6:2G:43:LEU:HD13	1.90	0.70
6:2G:161:THR:HG22	6:2G:163:ALA:H	1.57	0.70
32:2a:608:C:H4'	47:2p:10:GLY:C	2.16	0.70
32:2a:1129:A:H3'	32:2a:1130:C:C5'	2.22	0.70
32:2a:1470:A:H2'	32:2a:1471:A:C5'	2.20	0.70
40:2i:24:GLY:HA2	40:2i:59:PHE:O	1.90	0.70
50:2s:66:MET:HB2	50:2s:74:PHE:CZ	2.27	0.70
1:1A:2177:G:H2'	1:1A:2178:G:O4'	1.91	0.70
17:1V:55:ALA:CA	17:1V:101:GLY:HA2	2.20	0.70
21:1Z:102:LEU:HD11	21:1Z:124:ILE:HB	1.72	0.70
32:1a:331:C:O2'	32:1a:1416:A:O2'	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1079:C:H2'	32:1a:1080:C:H6	1.54	0.70
32:1a:1183:A:H4'	32:1a:1184:G:O5'	1.91	0.70
34:1c:63:ASN:CB	34:1c:98:ASN:HB2	2.21	0.70
42:1k:48:ILE:HG21	42:1k:63:LEU:HB3	1.74	0.70
1:2A:272:G:H1'	1:2A:273:U:OP1	1.91	0.70
1:2A:461:C:H2'	1:2A:462:C:H5'	1.73	0.70
1:2A:604:G:OP1	16:2U:14:HIS:ND1	2.25	0.70
1:2A:677:A:O2'	1:2A:678:A:H5'	1.91	0.70
1:2A:829:A:OP2	59:2A:3642:HOH:O	2.08	0.70
1:2A:870:A:H1'	1:2A:2369:G:N7	2.07	0.70
1:2A:1440:A:OP1	59:2A:3643:HOH:O	2.08	0.70
2:2B:48:A:H2'	2:2B:49:C:C6	2.27	0.70
10:2O:94:ARG:HB2	59:2O:303:HOH:O	1.89	0.70
12:2Q:111:GLU:O	12:2Q:115:MET:HG2	1.92	0.70
20:2Y:6:HIS:CE1	20:2Y:7:VAL:HG23	2.26	0.70
34:2c:125:GLU:OE2	34:2c:190:ARG:HG2	1.92	0.70
1:1A:309:C:N4	1:1A:378:G:O6	2.20	0.70
1:1A:452:C:OP1	59:1A:4190:HOH:O	2.07	0.70
1:1A:1502:G:OP2	59:1A:4205:HOH:O	2.08	0.70
1:1A:1856:G:O4'	59:1A:4193:HOH:O	2.08	0.70
1:1A:1939:A:O2'	1:1A:1941:OMC:N4	2.24	0.70
1:1A:2090:G:OP2	59:1A:4199:HOH:O	2.08	0.70
8:1I:94:ALA:HA	8:1I:97:ILE:HD12	1.74	0.70
10:1O:8:LEU:HD13	10:1O:82:ASN:HB3	1.74	0.70
17:1V:72:VAL:CG1	17:1V:85:LYS:HB3	2.22	0.70
30:18:29:LYS:HE2	30:18:45:GLY:HA2	1.74	0.70
32:1a:105:G:OP2	59:1a:2034:HOH:O	2.07	0.70
32:1a:699:A:H2'	32:1a:700:A:C8	2.26	0.70
32:1a:953:A:H4'	32:1a:1340:U:H1'	1.72	0.70
34:1c:63:ASN:HB3	34:1c:98:ASN:HB2	1.71	0.70
50:1s:41:VAL:CG1	50:1s:44:MET:HG3	2.22	0.70
1:2A:280:G:H2'	1:2A:281:G:H8	1.56	0.70
1:2A:425:G:OP2	59:2A:3811:HOH:O	2.09	0.70
1:2A:484:U:H4'	29:27:40:TRP:CZ3	2.27	0.70
1:2A:561:C:H2'	1:2A:562:G:H8	1.57	0.70
1:2A:797:A:OP1	59:2A:3789:HOH:O	2.08	0.70
1:2A:877:G:OP1	59:2A:3812:HOH:O	2.09	0.70
1:2A:894:G:OP1	59:2A:3813:HOH:O	2.10	0.70
1:2A:932:C:H2'	1:2A:933:A:O4'	1.91	0.70
1:2A:2094:C:O2'	1:2A:2609:A:O2'	2.09	0.70
1:2A:2202:G:H2'	1:2A:2203:G:C8	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:228:PRO:O	59:2D:402:HOH:O	2.08	0.70
9:2N:70:LYS:HE3	9:2N:72:TYR:CE1	2.21	0.70
14:2S:3:ARG:NH1	14:2S:4:LEU:O	2.25	0.70
18:2W:15:ARG:O	18:2W:19:LEU:HD13	1.91	0.70
27:25:35:GLU:HG3	27:25:51:TYR:CD2	2.26	0.70
59:26:601:HOH:O	30:28:32:LEU:HA	1.91	0.70
32:2a:491:C:OP2	32:2a:492:C:O2'	2.07	0.70
32:2a:802:G:O2'	32:2a:803:A:H5'	1.92	0.70
38:2g:46:ALA:HB2	38:2g:117:ALA:CA	2.21	0.70
50:2s:27:GLU:HG3	50:2s:47:HIS:NE2	2.07	0.70
1:1A:1232:U:O3'	59:1V:302:HOH:O	2.08	0.70
1:1A:1528:G:H2'	1:1A:1529:G:C8	2.25	0.70
1:1A:2238:A:OP1	3:1D:263:ARG:HD2	1.92	0.70
1:1A:2616:PSU:OP2	59:1A:4218:HOH:O	2.09	0.70
2:1B:43:C:H5"	26:14:1:MET:HG2	1.74	0.70
5:1F:88:VAL:O	59:1F:407:HOH:O	2.09	0.70
17:1V:19:LYS:O	59:1V:308:HOH:O	2.09	0.70
32:1a:262:G:H1'	32:1a:263:C:OP2	1.92	0.70
32:1a:601:G:H1	32:1a:607:C:H42	1.38	0.70
32:1a:1030:G:H2'	32:1a:1031:G:H5'	1.72	0.70
32:1a:1485:A:O2'	59:1a:2040:HOH:O	2.09	0.70
33:1b:70:PHE:HD2	33:1b:85:ALA:HB2	1.55	0.70
33:1b:163:PHE:HD1	33:1b:185:ILE:HG13	1.56	0.70
42:1k:84:VAL:CG1	42:1k:91:ARG:HD2	2.21	0.70
43:1l:56:ALA:O	43:1l:68:ALA:N	2.18	0.70
44:1m:73:GLU:HG2	44:1m:77:ASN:OD1	1.91	0.70
49:1r:74:ARG:HD3	49:1r:81:PHE:CD1	2.26	0.70
50:1s:12:ASP:OD2	50:1s:35:SER:OG	2.05	0.70
52:1u:20:LYS:HE3	52:1u:21:TYR:HE1	1.55	0.70
1:2A:716:A:H5"	11:2P:43:GLY:H	1.54	0.70
1:2A:855:G:O6	59:2A:3778:HOH:O	2.07	0.70
1:2A:902:C:O2'	1:2A:903:C:OP1	2.10	0.70
1:2A:1883:A:H1'	1:2A:2245:G:H5'	1.72	0.70
1:2A:2701:C:N4	1:2A:2725:A:H1'	2.07	0.70
6:2G:117:PHE:CZ	6:2G:179:PRO:HG2	2.27	0.70
17:2V:1:MET:CE	17:2V:43:GLU:HB2	2.22	0.70
17:2V:21:ARG:HD3	17:2V:91:TYR:CD2	2.25	0.70
23:21:50:ARG:HG2	23:21:59:THR:CG2	2.22	0.70
27:25:41:PRO:O	27:25:44:THR:OG1	2.03	0.70
32:2a:272:G:O3'	48:2q:68:ARG:NH1	2.25	0.70
36:2e:33:VAL:HG13	36:2e:112:LEU:HD12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:85:ARG:NE	39:2h:87:SER:O	2.25	0.70
44:2m:17:VAL:O	44:2m:20:THR:OG1	2.06	0.70
1:1A:555:C:H4'	1:1A:556:A:H5"	1.74	0.70
1:1A:641:G:P	5:1F:106:ARG:HD3	2.32	0.70
1:1A:1140:A:H5'	1:1A:2485:C:O2	1.91	0.70
1:1A:1298:A:N6	59:1A:4414:HOH:O	2.24	0.70
1:1A:1659:A:OP2	59:1A:4217:HOH:O	2.09	0.70
1:1A:2463:C:OP1	59:1A:4211:HOH:O	2.09	0.70
3:1D:226:MET:SD	3:1D:231:HIS:HB2	2.32	0.70
8:1I:92:VAL:CG1	8:1I:120:ILE:HB	2.22	0.70
9:1N:64:GLY:O	59:1N:302:HOH:O	2.10	0.70
18:1W:76:VAL:N	59:1W:3105:HOH:O	2.21	0.70
30:18:31:HIS:CE1	30:18:32:LEU:HD13	2.26	0.70
32:1a:10:G:OP1	36:1e:122:GLU:N	2.18	0.70
32:1a:49:C:O2	59:1a:2037:HOH:O	2.08	0.70
32:1a:850:A:O2'	32:1a:851:A:H5"	1.90	0.70
32:1a:1357:A:O2'	38:1g:28:ASN:HB3	1.91	0.70
35:1d:194:LEU:HB3	35:1d:196:LEU:HD12	1.72	0.70
38:1g:47:CYS:HA	38:1g:50:ILE:CD1	2.22	0.70
40:1i:108:VAL:HG12	40:1i:109:VAL:N	2.06	0.70
46:1o:63:ARG:HD2	46:1o:87:ILE:HD11	1.74	0.70
1:2A:358:C:H4'	20:2Y:73:ARG:NH1	2.05	0.70
1:2A:1552:A:O2'	1:2A:1553:A:O4'	2.10	0.70
1:2A:2155:A:O2'	1:2A:2180:G:H1'	1.92	0.70
1:2A:2602:C:OP2	59:2A:3817:HOH:O	2.10	0.70
5:2F:185:ASP:HA	5:2F:188:ARG:HD3	1.72	0.70
6:2G:43:LEU:CD2	6:2G:53:LEU:HD12	2.19	0.70
7:2H:99:VAL:O	7:2H:102:ALA:N	2.24	0.70
8:2I:90:GLY:O	8:2I:121:LYS:NZ	2.17	0.70
23:21:86:SER:OG	23:21:89:GLU:OE1	2.07	0.70
32:2a:732:C:H1'	32:2a:733:C:OP2	1.92	0.70
35:2d:25:ARG:NH1	35:2d:30:LYS:HB3	2.07	0.70
1:1A:705:C:C2'	1:1A:706:G:H5'	2.22	0.70
2:1B:2:C:H2'	2:1B:3:C:C6	2.26	0.70
4:1E:167:VAL:HG12	4:1E:170:LEU:HD11	1.73	0.70
12:1Q:63:LYS:CG	12:1Q:65:PHE:HE1	2.04	0.70
23:11:3:LYS:HG2	23:11:61:ARG:HH22	1.55	0.70
23:11:16:ASN:O	59:11:201:HOH:O	2.09	0.70
32:1a:18:U:O2'	32:1a:19:C:H5'	1.91	0.70
32:1a:640:C:H4'	46:1o:62:GLN:NE2	2.07	0.70
32:1a:1169:G:H5'	40:1i:113:LYS:CE	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1222:U:OP2	38:1g:116:ALA:N	2.25	0.70
34:1c:12:LEU:HD13	34:1c:18:TRP:HE1	1.57	0.70
36:1e:11:ILE:CB	36:1e:31:LEU:HD12	2.12	0.70
40:1i:23:ASN:OD1	40:1i:25:LYS:HG2	1.91	0.70
41:1j:8:LEU:N	41:1j:70:ARG:O	2.23	0.70
42:1k:109:VAL:HA	49:1r:85:LEU:O	1.92	0.70
50:1s:15:LEU:HD22	50:1s:35:SER:HB2	1.74	0.70
1:2A:365:G:O2'	1:2A:366:C:H5'	1.92	0.70
1:2A:523:U:H2'	1:2A:524:G:H5'	1.72	0.70
1:2A:777:C:OP2	59:2A:3808:HOH:O	2.09	0.70
1:2A:982:G:OP2	30:28:52:LYS:NZ	2.19	0.70
1:2A:1587:G:H5"	1:2A:1588:A:OP2	1.91	0.70
1:2A:1894:U:OP1	1:2A:2421:G:O2'	2.08	0.70
1:2A:2100:U:O4	59:2A:3764:HOH:O	2.06	0.70
1:2A:2646:C:O2'	4:2E:80:GLU:OE2	2.10	0.70
1:2A:2711:C:O2'	1:2A:2712:C:H5'	1.91	0.70
3:2D:37:LEU:HD22	3:2D:87:ASN:ND2	2.07	0.70
5:2F:164:ARG:HB3	5:2F:175:THR:HG21	1.74	0.70
20:2Y:47:LYS:NZ	20:2Y:48:ALA:O	2.24	0.70
28:26:40:CYS:SG	28:26:42:TRP:HB2	2.32	0.70
31:29:11:CYS:SG	31:29:13:LYS:HB2	2.31	0.70
32:2a:1344:C:O2'	32:2a:1345:C:H5"	1.92	0.70
33:2b:162:ILE:HD13	33:2b:177:ALA:HB2	1.72	0.70
38:2g:76:ARG:O	38:2g:87:VAL:N	2.23	0.70
39:2h:4:ASP:OD2	39:2h:85:ARG:NH1	2.25	0.70
46:2o:4:THR:OG1	46:2o:6:GLU:OE1	2.07	0.70
1:1A:616:U:OP2	59:1A:4223:HOH:O	2.09	0.70
1:1A:720:G:H1'	5:1F:74:ARG:CD	2.19	0.70
1:1A:986:G:O2'	1:1A:1233:A:N3	2.23	0.70
1:1A:1175:U:O2'	59:1A:4238:HOH:O	2.10	0.70
1:1A:1235:G:OP1	59:1A:4228:HOH:O	2.10	0.70
1:1A:2079:A:OP1	59:1A:4204:HOH:O	2.08	0.70
1:1A:2383:G:N3	59:1A:4404:HOH:O	2.23	0.70
3:1D:26:LYS:NZ	3:1D:83:GLU:OE2	2.22	0.70
3:1D:78:LYS:CD	3:1D:114:GLY:HA2	2.19	0.70
4:1E:67:PHE:CE1	4:1E:75:VAL:HG12	2.25	0.70
4:1E:134:ILE:HA	4:1E:137:HIS:CD2	2.26	0.70
6:1G:77:ILE:HG21	6:1G:80:PHE:HB2	1.73	0.70
24:12:39:ALA:HB2	24:12:44:LEU:HD23	1.71	0.70
32:1a:753:G:O2'	32:1a:754:C:H5'	1.92	0.70
32:1a:1110:G:N2	32:1a:1128:C:N3	2.37	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:1i:99:LEU:HD23	40:1i:101:PHE:HE2	1.56	0.70
44:1m:14:ARG:HG3	44:1m:44:ARG:NH1	2.07	0.70
50:1s:31:ILE:O	50:1s:50:ALA:N	2.24	0.70
1:2A:1052:C:OP1	9:2N:37:LYS:NZ	2.25	0.70
1:2A:1275:C:H2'	1:2A:1276:G:C8	2.26	0.70
1:2A:1886:G:H2'	1:2A:1887:G:O4'	1.92	0.70
1:2A:2237:C:OP2	59:2A:3793:HOH:O	2.08	0.70
1:2A:2652:G:P	9:2N:74:ARG:HH12	2.15	0.70
1:2A:2888:C:OP2	59:2A:3810:HOH:O	2.09	0.70
3:2D:144:ALA:O	3:2D:191:ALA:HA	1.92	0.70
6:2G:158:ALA:HB3	59:2G:8101:HOH:O	1.91	0.70
14:2S:74:ALA:HA	14:2S:110:LEU:HD11	1.73	0.70
32:2a:433:U:C5'	35:2d:155:LEU:HD11	2.22	0.70
32:2a:725:G:H5"	46:2o:59:MET:HE1	1.72	0.70
34:2c:70:VAL:HG13	34:2c:73:PRO:HG3	1.73	0.70
38:2g:113:GLU:HB2	38:2g:119:ARG:CG	2.21	0.70
43:2l:84:LEU:HB3	43:2l:104:VAL:HG21	1.74	0.70
1:1A:856:U:OP1	59:1A:4196:HOH:O	2.08	0.69
1:1A:1623:C:OP2	59:1A:4219:HOH:O	2.09	0.69
1:1A:1717:U:H2'	1:1A:1719:U:OP2	1.91	0.69
5:1F:54:ARG:HG2	5:1F:54:ARG:O	1.91	0.69
5:1F:108:LYS:HE2	5:1F:112:MET:CE	2.21	0.69
8:1I:68:LEU:O	8:1I:71:ILE:N	2.25	0.69
8:1I:77:LEU:HD12	8:1I:104:GLN:NE2	2.06	0.69
15:1T:2:ASN:O	15:1T:6:LEU:HD13	1.91	0.69
32:1a:107:G:H2'	32:1a:108:U:C6	2.27	0.69
32:1a:1015:G:H2'	32:1a:1016:G:O4'	1.91	0.69
32:1a:1031:G:O3'	45:1n:2:ALA:N	2.25	0.69
47:1p:40:ASP:HB3	47:1p:48:TRP:CB	2.21	0.69
1:2A:1402:U:OP2	59:2A:3820:HOH:O	2.10	0.69
1:2A:2613:A:H1'	1:2A:2614:G:C5'	2.19	0.69
4:2E:11:MET:HG2	4:2E:24:THR:CG2	2.15	0.69
32:2a:86:U:O2'	32:2a:87:C:H5'	1.92	0.69
36:2e:31:LEU:HD12	36:2e:129:ILE:HG12	1.74	0.69
39:2h:64:LYS:C	39:2h:65:TYR:HD1	1.99	0.69
1:1A:920:G:H1	1:1A:948:C:H42	1.38	0.69
1:1A:2031:G:H5"	18:1W:42:ARG:HB2	1.73	0.69
1:1A:2613:A:H1'	1:1A:2614:G:H5"	1.74	0.69
1:1A:2817:U:H5"	1:1A:2899:G:O6	1.92	0.69
3:1D:118:VAL:N	3:1D:129:ASN:OD1	2.23	0.69
3:1D:232:PRO:O	59:1D:407:HOH:O	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:93:VAL:HG13	59:1E:410:HOH:O	1.90	0.69
6:1G:29:TRP:O	59:1G:8102:HOH:O	2.10	0.69
32:1a:77:G:H1	32:1a:87:C:N4	1.90	0.69
32:1a:789:C:OP2	59:1a:2043:HOH:O	2.10	0.69
33:1b:92:TYR:CE1	33:1b:151:GLY:HA3	2.27	0.69
35:1d:64:LEU:HA	35:1d:67:ILE:HD12	1.74	0.69
41:1j:39:PRO:HA	41:1j:70:ARG:HD3	1.74	0.69
45:1n:15:LYS:HG2	45:1n:16:PHE:CE1	2.27	0.69
1:2A:183:A:N7	59:2A:3705:HOH:O	2.25	0.69
1:2A:787:G:OP1	59:2A:3819:HOH:O	2.10	0.69
1:2A:1392:G:N7	59:2A:3931:HOH:O	2.26	0.69
1:2A:2234:G:H2'	1:2A:2235:G:H5'	1.74	0.69
1:2A:2278:A:H5"	1:2A:2279:A:C5'	2.18	0.69
5:2F:101:LEU:O	5:2F:106:ARG:NH2	2.25	0.69
6:2G:29:TRP:O	6:2G:33:ARG:NH1	2.25	0.69
16:2U:105:VAL:HG22	17:2V:45:THR:CG2	2.20	0.69
17:2V:11:GLN:C	17:2V:12:TYR:HD1	2.00	0.69
32:2a:544:U:OP2	59:2a:1924:HOH:O	2.09	0.69
32:2a:1148:C:H42	32:2a:1153:G:H1	1.40	0.69
32:2a:1214:U:OP1	40:2i:124:GLN:NE2	2.25	0.69
32:2a:1304:C:H5"	44:2m:100:GLY:CA	2.22	0.69
32:2a:1311:A:OP1	44:2m:26:GLY:HA3	1.92	0.69
33:2b:7:VAL:HG12	33:2b:8:LYS:N	2.07	0.69
34:2c:11:ARG:NH2	34:2c:177:THR:O	2.15	0.69
37:2f:2:ARG:CB	37:2f:4:TYR:HE1	2.05	0.69
39:2h:73:ASP:OD2	39:2h:75:ARG:NH2	2.25	0.69
44:2m:54:VAL:HA	44:2m:57:ARG:HB3	1.73	0.69
52:2u:12:LYS:HB3	52:2u:17:THR:O	1.92	0.69
1:1A:425:G:OP2	59:1A:4234:HOH:O	2.10	0.69
1:1A:1005:C:O2	59:1A:4213:HOH:O	2.09	0.69
1:1A:2315:G:H5'	6:1G:124:SER:HB2	1.75	0.69
1:1A:2374:C:O3'	59:1A:4215:HOH:O	2.09	0.69
6:1G:139:LEU:HD11	6:1G:146:TYR:HD1	1.58	0.69
12:1Q:45:GLN:O	59:1Q:304:HOH:O	2.11	0.69
13:1R:8:ARG:HH12	13:1R:39:PRO:HB3	1.58	0.69
19:1X:4:ALA:HB1	19:1X:42:ALA:HA	1.75	0.69
19:1X:10:ALA:HA	24:12:37:PHE:CE1	2.28	0.69
32:1a:752:A:OP2	59:1a:2038:HOH:O	2.08	0.69
38:1g:113:GLU:HG2	38:1g:119:ARG:HG3	1.75	0.69
1:2A:933:A:H1'	1:2A:935:C:H5	1.57	0.69
1:2A:945:A:O2'	1:2A:946:A:OP1	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1273:G:C2'	1:2A:1274:G:H5"	2.22	0.69
1:2A:1390:C:OP2	59:2A:3821:HOH:O	2.11	0.69
1:2A:1710:A:OP2	59:2A:3815:HOH:O	2.10	0.69
1:2A:2342:G:O2'	22:20:43:THR:HG22	1.91	0.69
3:2D:12:SER:HB3	3:2D:208:LYS:HB3	1.72	0.69
13:2R:38:VAL:CG1	13:2R:42:LYS:HE2	2.20	0.69
25:23:7:LYS:C	25:23:54:VAL:HG23	2.17	0.69
32:2a:403:G:H2'	32:2a:404:A:H8	1.57	0.69
32:2a:777:U:O2	32:2a:1494:G:H4'	1.92	0.69
32:2a:865:G:H1	32:2a:888:C:H42	1.40	0.69
32:2a:1351:G:OP1	41:2j:62:HIS:NE2	2.25	0.69
39:2h:28:ALA:CB	39:2h:57:PRO:HB2	2.22	0.69
39:2h:121:ASP:HB2	39:2h:125:ARG:NH1	2.07	0.69
41:2j:21:GLN:NE2	41:2j:25:GLU:OE2	2.24	0.69
1:1A:1111:U:H2'	1:1A:1112:A:C5	2.27	0.69
1:1A:1246:C:HO2'	5:1F:184:TYR:HH	1.38	0.69
1:1A:1657:C:N4	1:1A:1664:G:O6	2.18	0.69
1:1A:2080:A:OP2	59:1A:4230:HOH:O	2.10	0.69
1:1A:2143:U:H2'	1:1A:2144:G:O4'	1.93	0.69
3:1D:60:ARG:O	59:1D:409:HOH:O	2.11	0.69
26:14:56:VAL:CB	26:14:60:GLN:HG3	2.19	0.69
32:1a:250:G:H5"	48:1q:69:LYS:HD2	1.73	0.69
32:1a:317:A:H4'	32:1a:1419:U:O4'	1.92	0.69
32:1a:752:A:OP1	32:1a:788:U:H4'	1.92	0.69
32:1a:843:A:C2	32:1a:896:A:H4'	2.28	0.69
32:1a:1001:G:H5'	32:1a:1002:G:OP2	1.92	0.69
32:1a:1333:U:O2'	32:1a:1334:C:H5'	1.93	0.69
36:1e:143:ARG:HH12	39:1h:77:GLU:CD	1.97	0.69
39:1h:51:VAL:HG12	39:1h:52:ASP:N	2.06	0.69
1:2A:141:G:H2'	1:2A:142:C:C6	2.27	0.69
1:2A:420:A:O2'	1:2A:421:U:H5'	1.93	0.69
1:2A:851:G:OP1	59:2A:3794:HOH:O	2.08	0.69
1:2A:972:G:H2'	1:2A:973:G:O4'	1.91	0.69
1:2A:1309:G:OP1	27:25:19:ARG:NH2	2.24	0.69
1:2A:1502:G:H1	1:2A:2714:C:H42	1.40	0.69
1:2A:2100:U:O3'	23:21:35:THR:OG1	2.08	0.69
1:2A:2114:G:O2'	8:2I:25:TYR:HB2	1.92	0.69
1:2A:2345:G:O3'	59:2A:3818:HOH:O	2.10	0.69
3:2D:12:SER:CB	3:2D:208:LYS:HB3	2.22	0.69
6:2G:36:LYS:HB3	6:2G:95:ARG:HG2	1.75	0.69
13:2R:97:VAL:HG23	13:2R:114:VAL:HG22	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2Y:43:ASN:CG	20:2Y:65:ALA:HB3	2.16	0.69
21:2Z:24:LEU:O	21:2Z:39:VAL:HG22	1.92	0.69
27:25:51:TYR:HE1	27:25:56:LYS:HB2	1.57	0.69
32:2a:70:G:H2'	32:2a:71:G:C8	2.27	0.69
32:2a:504:A:OP1	59:2a:1927:HOH:O	2.11	0.69
32:2a:925:G:O3'	44:2m:109:THR:OG1	2.09	0.69
32:2a:1084:A:H4'	32:2a:1085:A:O5'	1.92	0.69
32:2a:1315:A:H2'	32:2a:1316:G:O4'	1.92	0.69
35:2d:64:LEU:HD22	35:2d:198:VAL:HG11	1.74	0.69
46:2o:9:GLN:HA	46:2o:12:ILE:HD12	1.73	0.69
50:2s:52:TYR:HB2	50:2s:57:HIS:CE1	2.27	0.69
1:1A:103:C:O2'	1:1A:317:A:O2'	2.06	0.69
1:1A:639:A:H4'	5:1F:182:ASN:ND2	2.08	0.69
1:1A:2288:G:C2'	1:1A:2289:A:H5"	2.23	0.69
13:1R:48:VAL:O	13:1R:51:LEU:N	2.25	0.69
25:13:7:LYS:NZ	25:13:32:GLN:O	2.20	0.69
32:1a:87:C:O2'	32:1a:88:C:H5'	1.91	0.69
32:1a:109:G:H4'	32:1a:110:A:O5'	1.92	0.69
32:1a:186:C:H42	32:1a:193:G:H1	1.38	0.69
32:1a:714:G:H2'	32:1a:715:G:H5'	1.74	0.69
32:1a:916:A:H2	32:1a:1359:U:H1'	1.57	0.69
32:1a:970:U:H4'	32:1a:971:G:H5'	1.72	0.69
32:1a:982:G:C2	32:1a:983:A:H1'	2.27	0.69
32:1a:1106:A:O2'	41:1j:37:PRO:O	2.08	0.69
1:2A:1715:A:OP2	59:2A:3807:HOH:O	2.09	0.69
1:2A:2283:U:H5"	1:2A:2284:A:OP1	1.92	0.69
1:2A:2761:A:OP2	1:2A:2762:A:O2'	2.08	0.69
6:2G:37:VAL:CG2	6:2G:99:MET:HG3	2.21	0.69
11:2P:77:ARG:HB2	11:2P:78:PRO:HD2	1.74	0.69
15:2T:11:GLU:O	15:2T:15:VAL:HG23	1.91	0.69
32:2a:216:G:H2'	32:2a:217:C:H5'	1.74	0.69
32:2a:732:C:H4'	32:2a:733:C:O5'	1.93	0.69
32:2a:942:A:OP1	59:2a:1925:HOH:O	2.10	0.69
32:2a:1210:C:H5'	44:2m:108:ARG:HH22	1.58	0.69
36:2e:60:TYR:HA	36:2e:63:ARG:HD3	1.74	0.69
47:2p:6:LEU:HD12	47:2p:17:TYR:HB3	1.74	0.69
3:1D:91:ARG:O	3:1D:107:ALA:N	2.22	0.69
5:1F:125:LEU:HD23	5:1F:196:LEU:HD23	1.73	0.69
11:1P:90:ARG:HG3	11:1P:91:PHE:CD1	2.27	0.69
26:14:67:TYR:HD2	50:1s:16:LEU:CD2	2.05	0.69
32:1a:121:G:HO2'	48:1q:2:PRO:N	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:258:A:H2'	32:1a:259:A:C8	2.28	0.69
32:1a:372:G:O6	59:1a:2033:HOH:O	2.07	0.69
1:2A:103:C:O2'	1:2A:317:A:O2'	1.95	0.69
1:2A:420:A:O2'	59:2A:3804:HOH:O	2.09	0.69
1:2A:1045:A:OP1	59:2A:3707:HOH:O	2.10	0.69
2:2B:94:C:O2'	2:2B:95:C:H5'	1.93	0.69
5:2F:104:LYS:O	5:2F:108:LYS:HG3	1.93	0.69
5:2F:185:ASP:OD1	5:2F:188:ARG:NH1	2.25	0.69
7:2H:23:ARG:CG	7:2H:36:PRO:HA	2.15	0.69
32:2a:566:U:OP1	46:2o:68:ARG:NH2	2.23	0.69
32:2a:957:C:H2'	32:2a:958:C:H5'	1.75	0.69
32:2a:1265:G:H2'	32:2a:1266:C:O4'	1.92	0.69
35:2d:111:ALA:HB2	35:2d:120:LEU:HD12	1.73	0.69
49:2r:25:THR:C	49:2r:26:LEU:HD12	2.18	0.69
1:1A:1059:U:OP2	59:1A:4245:HOH:O	2.10	0.69
1:1A:1803:A:H2'	1:1A:1804:C:H5'	1.75	0.69
1:1A:1822:G:O2'	1:1A:1860:C:OP1	2.09	0.69
1:1A:1989:G:OP1	59:1A:4241:HOH:O	2.10	0.69
1:1A:2218:U:O2'	1:1A:2219:A:H2'	1.92	0.69
1:1A:2249:G:H2'	1:1A:2249:G:N3	2.06	0.69
1:1A:2695:U:O4	1:1A:2737:A:N6	2.17	0.69
2:1B:5:C:OP1	2:1B:61:G:O2'	2.09	0.69
5:1F:87:GLY:O	59:1F:408:HOH:O	2.09	0.69
6:1G:121:ASN:O	6:1G:131:TYR:OH	2.10	0.69
9:1N:47:ALA:O	9:1N:119:ARG:NH1	2.26	0.69
21:1Z:119:GLU:OE1	21:1Z:122:ARG:NH1	2.26	0.69
32:1a:494:A:N3	32:1a:527:C:H1'	2.08	0.69
32:1a:1165:A:H3'	32:1a:1166:G:C5'	2.23	0.69
32:1a:1303:C:OP2	32:1a:1304:C:O2'	2.11	0.69
32:1a:1385:4OC:CM2	32:1a:1386:C:H5'	2.23	0.69
44:1m:54:VAL:HA	44:1m:57:ARG:HB3	1.73	0.69
1:2A:424:G:H2'	1:2A:425:G:C8	2.28	0.69
1:2A:1382:G:OP2	19:2X:73:ARG:NH2	2.24	0.69
5:2F:115:ALA:HA	5:2F:118:ALA:HB3	1.75	0.69
14:2S:9:ARG:O	14:2S:12:PHE:N	2.23	0.69
32:2a:1029:A:H2'	32:2a:1030:G:H5'	1.72	0.69
32:2a:1351:G:H5"	40:2i:112:LYS:CB	2.23	0.69
1:1A:26:G:O2'	1:1A:27:A:OP2	2.11	0.69
1:1A:186:C:OP2	59:1A:3916:HOH:O	2.10	0.69
1:1A:188:U:H2'	1:1A:189:C:H5'	1.73	0.69
1:1A:394:C:OP2	59:1A:4242:HOH:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1119:G:H4'	12:1Q:59:ARG:NH2	2.08	0.69
1:1A:2363:A:H2'	1:1A:2364:G:H5'	1.74	0.69
1:1A:2419:U:OP2	59:1A:4221:HOH:O	2.09	0.69
1:1A:2461:A:OP2	59:1A:4222:HOH:O	2.09	0.69
1:1A:2587:G:OP1	59:1A:4246:HOH:O	2.10	0.69
1:1A:2792:G:OP1	59:1A:4227:HOH:O	2.09	0.69
1:1A:2884:C:O2'	15:1T:2:ASN:OD1	2.03	0.69
4:1E:51:PHE:CD2	4:1E:52:LEU:HG	2.28	0.69
6:1G:131:TYR:HB3	6:1G:159:VAL:HG11	1.75	0.69
11:1P:33:ARG:HD3	11:1P:40:SER:O	1.92	0.69
15:1T:107:ASP:O	15:1T:111:ARG:HG3	1.93	0.69
17:1V:78:LYS:O	59:1V:309:HOH:O	2.10	0.69
18:1W:19:LEU:O	27:15:25:LEU:HD12	1.91	0.69
18:1W:41:LYS:HE3	27:15:25:LEU:HD21	1.74	0.69
22:10:55:ARG:O	59:10:203:HOH:O	2.10	0.69
24:12:54:LYS:N	59:12:101:HOH:O	1.98	0.69
32:1a:163:G:O2'	32:1a:164:C:H5'	1.92	0.69
32:1a:220:C:OP1	51:1t:74:LYS:NZ	2.25	0.69
32:1a:342:G:N3	55:1a:1900:MPD:O4	2.26	0.69
32:1a:420:G:O2'	32:1a:421:G:H5'	1.92	0.69
32:1a:471:U:H2'	32:1a:472:A:H8	1.58	0.69
32:1a:530:G:OP2	35:1d:72:GLU:N	2.23	0.69
32:1a:662:U:O2	32:1a:761:A:H4'	1.93	0.69
32:1a:1026:C:H3'	32:1a:1027:A:H5"	1.75	0.69
32:1a:1078:U:OP2	59:1a:2042:HOH:O	2.10	0.69
32:1a:1503:G:OP1	42:1k:120:ARG:NH2	2.25	0.69
39:1h:83:ILE:HG13	39:1h:137:VAL:CG2	2.21	0.69
39:1h:86:ILE:CB	39:1h:133:LEU:HD22	2.23	0.69
47:1p:74:LEU:O	47:1p:79:VAL:HG22	1.93	0.69
1:2A:15:G:OP1	27:25:17:ASP:HB3	1.92	0.69
1:2A:407:G:O2'	1:2A:408:G:H5'	1.93	0.69
1:2A:1039:C:OP1	16:2U:53:ARG:NH2	2.26	0.69
1:2A:1247:G:O6	59:2A:3785:HOH:O	2.07	0.69
3:2D:126:GLN:O	3:2D:193:VAL:HG21	1.92	0.69
3:2D:273:ARG:HG2	3:2D:274:ARG:HG3	1.75	0.69
4:2E:37:ARG:N	4:2E:46:ALA:O	2.23	0.69
5:2F:109:GLY:O	5:2F:113:ALA:N	2.15	0.69
6:2G:38:VAL:HG22	6:2G:93:THR:HG23	1.75	0.69
8:2I:94:ALA:CB	8:2I:114:LEU:HD23	2.22	0.69
13:2R:2:ARG:NH1	13:2R:5:LYS:O	2.25	0.69
13:2R:87:TYR:CD1	13:2R:90:ARG:HD2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2S:14:VAL:O	14:2S:18:ILE:HG12	1.92	0.69
18:2W:45:TYR:HE1	18:2W:49:LYS:HD2	1.58	0.69
23:21:52:ARG:HD2	23:21:55:GLY:HA2	1.75	0.69
32:2a:182:C:H2'	32:2a:183:C:H6	1.58	0.69
32:2a:445:G:OP2	32:2a:446:A:O2'	2.09	0.69
32:2a:536:U:H4'	43:2l:87:GLY:CA	2.22	0.69
32:2a:723:C:HO2'	46:2o:42:HIS:HD1	1.33	0.69
32:2a:1165:A:H1'	32:2a:1166:G:OP1	1.93	0.69
32:2a:1222:U:O4	38:2g:30:ILE:HG23	1.92	0.69
34:2c:20:SER:O	45:2n:54:PRO:HB3	1.93	0.69
34:2c:130:VAL:HG12	34:2c:134:ILE:HD11	1.73	0.69
35:2d:15:GLU:OE1	35:2d:63:LYS:HB2	1.93	0.69
35:2d:31:CYS:HA	58:2d:501:SF4:S3	2.33	0.69
35:2d:173:TRP:HB2	35:2d:187:ARG:O	1.93	0.69
36:2e:78:HIS:HD2	39:2h:104:ARG:HD2	1.56	0.69
41:2j:44:VAL:CG1	41:2j:46:ARG:HG3	2.23	0.69
41:2j:44:VAL:HG12	41:2j:46:ARG:HG3	1.75	0.69
43:2l:8:ASN:O	43:2l:12:ARG:N	2.23	0.69
48:2q:40:LYS:HD3	48:2q:42:TYR:OH	1.92	0.69
1:1A:122:G:N2	29:17:48:LYS:HA	2.08	0.69
1:1A:1269:C:OP1	59:1A:4249:HOH:O	2.11	0.69
1:1A:2442:U:O4	59:1A:4209:HOH:O	2.08	0.69
1:1A:2647:U:H4'	4:1E:80:GLU:OE1	1.93	0.69
4:1E:179:GLU:OE1	59:1E:411:HOH:O	2.10	0.69
5:1F:184:TYR:CE2	5:1F:188:ARG:HD2	2.28	0.69
6:1G:16:ARG:NE	6:1G:31:VAL:HG21	2.07	0.69
6:1G:39:ILE:HD12	6:1G:64:THR:HG21	1.75	0.69
9:1N:67:LEU:O	9:1N:88:GLU:HG3	1.92	0.69
11:1P:87:ASP:O	11:1P:90:ARG:NH1	2.25	0.69
21:1Z:23:LYS:HG3	21:1Z:38:TYR:CE2	2.28	0.69
34:1c:6:HIS:CD2	45:1n:49:HIS:HB3	2.28	0.69
34:1c:30:ARG:HB3	45:1n:36:PHE:O	1.92	0.69
38:1g:14:PRO:HG3	38:1g:21:VAL:HG13	1.75	0.69
40:1i:80:GLY:O	40:1i:83:ARG:HB3	1.92	0.69
48:1q:27:PHE:CE2	48:1q:36:ILE:HD11	2.28	0.69
50:1s:12:ASP:OD1	50:1s:37:ARG:HD2	1.91	0.69
1:2A:1071:U:OP1	59:2A:3780:HOH:O	2.09	0.69
3:2D:125:ILE:HB	37:2f:81:ILE:CD1	2.19	0.69
18:2W:45:TYR:CE1	18:2W:49:LYS:HD2	2.28	0.69
32:2a:603:U:C2	35:2d:135:LEU:HD21	2.28	0.69
35:2d:57:ARG:NH2	35:2d:205:GLU:OE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:2s:41:VAL:HG22	50:2s:42:PRO:HD2	1.73	0.69
1:1A:857:U:H2'	11:1P:21:ARG:HA	1.75	0.69
1:1A:903:C:H1'	22:10:26:TYR:CE1	2.28	0.69
1:1A:1140:A:H3'	1:1A:1141:A:C8	2.27	0.69
1:1A:2083:A:OP2	59:1A:4255:HOH:O	2.11	0.69
1:1A:2416:G:O2'	1:1A:2417:U:OP1	2.11	0.69
1:1A:2506:G:OP1	12:1Q:82:ARG:NE	2.25	0.69
1:1A:2885:G:O3'	59:1A:4236:HOH:O	2.10	0.69
32:1a:937:A:H2'	32:1a:938:U:H4'	1.74	0.69
32:1a:1074:U:H2'	32:1a:1076:A:OP2	1.93	0.69
32:1a:1207:A:O2'	32:1a:1208:C:O5'	2.09	0.69
1:2A:141:G:H2'	1:2A:142:C:H6	1.57	0.69
1:2A:1013:U:H5'	25:23:16:PRO:HA	1.75	0.69
1:2A:2226:G:H3'	1:2A:2227:G:C8	2.27	0.69
5:2F:72:ARG:N	59:2F:403:HOH:O	2.26	0.69
5:2F:95:ARG:CB	5:2F:97:TYR:HE1	2.05	0.69
32:2a:475:G:H2'	32:2a:476:G:C8	2.27	0.69
32:2a:804:U:H4'	32:2a:805:G:OP2	1.91	0.69
44:2m:81:LEU:CD2	44:2m:88:ARG:HD2	2.23	0.69
1:1A:758:G:H2'	1:1A:759:G:H5'	1.74	0.68
1:1A:817:G:O2'	1:1A:1400:G:O2'	2.09	0.68
1:1A:2045:G:N7	59:1A:4419:HOH:O	2.25	0.68
1:1A:2461:A:O2'	1:1A:2462:A:H5'	1.93	0.68
1:1A:2691:C:H1'	4:1E:187:ALA:CB	2.23	0.68
3:1D:35:LYS:HB2	3:1D:36:PRO:HD2	1.75	0.68
5:1F:33:LEU:HD11	5:1F:112:MET:HB3	1.75	0.68
13:1R:102:GLU:O	59:1R:305:HOH:O	2.10	0.68
32:1a:324:C:OP1	59:1a:2045:HOH:O	2.11	0.68
1:2A:1310:A:O2'	59:2A:3814:HOH:O	2.10	0.68
1:2A:1311:G:O6	18:2W:13:SER:OG	2.05	0.68
1:2A:1715:A:H5"	1:2A:2561:G:OP1	1.93	0.68
1:2A:2243:U:O2'	1:2A:2244:U:H5'	1.92	0.68
1:2A:2825:C:O3'	13:2R:99:LYS:NZ	2.25	0.68
1:2A:2837:C:H2'	1:2A:2838:C:H6	1.58	0.68
2:2B:17:C:H2'	2:2B:18:G:O4'	1.92	0.68
6:2G:3:LEU:HD22	26:24:25:TYR:CE2	2.25	0.68
10:2O:23:ARG:HB3	10:2O:40:VAL:HB	1.74	0.68
21:2Z:144:LEU:HD11	21:2Z:150:LEU:CD1	2.23	0.68
32:2a:66:U:H1'	32:2a:67:G:OP2	1.92	0.68
32:2a:809:G:N2	39:2h:11:THR:HG21	2.08	0.68
32:2a:935:U:O2'	32:2a:937:A:N6	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1243:A:H5'	32:2a:1265:G:O3'	1.93	0.68
33:2b:50:GLU:O	33:2b:54:THR:N	2.18	0.68
38:2g:114:ARG:HB3	38:2g:115:ARG:NH1	2.08	0.68
38:2g:117:ALA:O	38:2g:121:ALA:N	2.25	0.68
50:2s:66:MET:HB2	50:2s:74:PHE:HZ	1.58	0.68
1:1A:121:G:N2	1:1A:123:A:O2'	2.26	0.68
1:1A:554:G:O6	59:1A:4130:HOH:O	2.10	0.68
1:1A:619:U:O2	1:1A:706:G:N1	2.13	0.68
1:1A:900:G:H1	1:1A:968:C:H42	1.40	0.68
1:1A:1293:G:O2'	59:1A:4220:HOH:O	2.09	0.68
1:1A:1531:A:H2'	1:1A:1532:G:H8	1.56	0.68
1:1A:1716:C:O2	4:1E:129:HIS:NE2	2.25	0.68
1:1A:1747:A:OP2	59:1A:4235:HOH:O	2.10	0.68
1:1A:1760:G:H2'	1:1A:1761:G:C8	2.28	0.68
1:1A:2001:G:O2'	1:1A:2003:C:OP2	2.11	0.68
1:1A:2224:U:O4'	3:1D:151:LYS:NZ	2.25	0.68
9:1N:4:TYR:OH	59:1N:303:HOH:O	2.10	0.68
10:1O:36:GLY:HA2	10:1O:106:LEU:HD23	1.75	0.68
10:1O:77:ILE:HG12	10:1O:79:PHE:CE1	2.26	0.68
18:1W:43:GLY:N	59:1W:3108:HOH:O	2.26	0.68
20:1Y:90:LEU:HD11	20:1Y:96:ILE:CD1	2.23	0.68
22:10:70:GLN:OE1	22:10:80:HIS:NE2	2.26	0.68
32:1a:1287:G:N2	32:1a:1313:G:H1'	2.09	0.68
35:1d:114:ARG:HA	35:1d:117:ALA:HB3	1.74	0.68
36:1e:92:LYS:HB3	36:1e:119:LEU:HB2	1.74	0.68
41:1j:50:ILE:HD11	41:1j:57:LYS:HD3	1.76	0.68
1:2A:286:G:N7	1:2A:447:U:H2'	2.08	0.68
1:2A:624:G:O2'	1:2A:626:G:O2'	2.07	0.68
1:2A:790:G:O6	1:2A:799:C:N4	2.18	0.68
2:2B:114:C:H2'	2:2B:115:G:C8	2.28	0.68
3:2D:33:LEU:HD11	3:2D:102:LYS:O	1.92	0.68
3:2D:70:TRP:NE1	3:2D:146:GLU:OE2	2.21	0.68
9:2N:20:GLY:HA2	9:2N:61:ARG:HG3	1.74	0.68
14:2S:4:LEU:HA	14:2S:8:GLU:OE1	1.92	0.68
22:20:27:GLU:HB2	22:20:69:PHE:CD2	2.27	0.68
24:22:19:VAL:HG12	24:22:23:LYS:HE3	1.74	0.68
32:2a:1208:C:H4'	32:2a:1209:A:OP1	1.94	0.68
35:2d:127:THR:CG2	35:2d:147:ALA:HB3	2.24	0.68
37:2f:29:ALA:HA	37:2f:32:ASN:HB2	1.74	0.68
1:1A:773:A:H2	3:1D:9:TYR:HD2	1.40	0.68
1:1A:1555:A:H2'	1:1A:1556:A:H8	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1587:G:H5”	1:1A:1588:A:OP2	1.94	0.68
1:1A:1833:A:O2’	3:1D:259:THR:HG21	1.92	0.68
1:1A:2596:U:O3’	59:1A:4231:HOH:O	2.10	0.68
15:1T:56:GLY:O	59:1T:8101:HOH:O	2.10	0.68
15:1T:74:ARG:HD3	15:1T:76:PHE:CZ	2.28	0.68
16:1U:32:PHE:CE2	16:1U:36:ARG:HD2	2.29	0.68
30:18:30:ARG:O	59:18:203:HOH:O	2.12	0.68
32:1a:224:A:H4’	47:1p:62:VAL:HG21	1.74	0.68
32:1a:459:G:H2’	32:1a:460:G:C8	2.28	0.68
32:1a:486:G:H2’	32:1a:487:C:O4’	1.93	0.68
38:1g:15:ASP:OD1	38:1g:19:GLY:N	2.26	0.68
40:1i:19:LEU:HD23	40:1i:61:ALA:HB2	1.76	0.68
1:2A:864:G:OP2	59:2A:3806:HOH:O	2.11	0.68
1:2A:1024:G:N7	59:2A:3648:HOH:O	2.25	0.68
1:2A:2217:C:O2’	1:2A:2218:U:H5’	1.94	0.68
1:2A:2376:G:O6	30:28:43:GLN:NE2	2.26	0.68
4:2E:59:VAL:HG12	4:2E:64:LYS:HG3	1.74	0.68
7:2H:154:PRO:HB3	7:2H:163:TYR:CE1	2.27	0.68
13:2R:103:ARG:NH1	13:2R:108:GLY:O	2.26	0.68
14:2S:25:ARG:HG3	14:2S:40:ILE:HB	1.75	0.68
19:2X:4:ALA:CB	19:2X:42:ALA:HA	2.23	0.68
20:2Y:52:SER:HB2	20:2Y:53:PRO:HD2	1.76	0.68
29:27:8:ASN:O	29:27:11:LYS:N	2.27	0.68
32:2a:725:G:H5’	46:2o:39:LEU:CD1	2.23	0.68
33:2b:198:ASP:C	33:2b:199:TYR:HD1	2.02	0.68
34:2c:26:LYS:HA	45:2n:36:PHE:HE1	1.57	0.68
39:2h:60:ARG:HB3	39:2h:62:TYR:CE1	2.27	0.68
41:2j:43:ARG:HB2	41:2j:67:THR:OG1	1.93	0.68
46:2o:82:ILE:O	46:2o:86:GLY:N	2.27	0.68
1:1A:171:C:H1’	1:1A:459:C:H1’	1.76	0.68
1:1A:478:C:O2	1:1A:482:A:O2’	2.12	0.68
1:1A:1107:G:N3	1:1A:1133:A:N6	2.41	0.68
1:1A:1684:C:O2’	1:1A:2709:U:O2	2.11	0.68
1:1A:1814:A:OP2	59:1A:4237:HOH:O	2.10	0.68
1:1A:1845:A:O3’	59:1A:4252:HOH:O	2.11	0.68
1:1A:2330:G:H22	14:1S:3:ARG:CD	2.06	0.68
4:1E:47:VAL:HG12	4:1E:49:LEU:HD12	1.74	0.68
6:1G:6:ALA:HB3	6:1G:104:GLU:OE2	1.94	0.68
8:1I:92:VAL:HG13	8:1I:120:ILE:HB	1.75	0.68
13:1R:111:LEU:O	59:1R:304:HOH:O	2.12	0.68
18:1W:71:VAL:HG11	59:1W:3110:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:310:C:OP2	59:1a:2041:HOH:O	2.10	0.68
32:1a:529:C:C2'	32:1a:530:G:H5'	2.23	0.68
32:1a:636:U:O4	32:1a:736:G:O2'	2.09	0.68
32:1a:651:G:H4'	46:1o:51:HIS:CE1	2.28	0.68
32:1a:1389:U:H3'	32:1a:1390:5MC:HM53	1.75	0.68
34:1c:133:ALA:HA	34:1c:136:GLN:HB2	1.73	0.68
38:1g:74:GLU:HG2	38:1g:91:VAL:HG22	1.74	0.68
38:1g:113:GLU:HG3	38:1g:118:VAL:CG1	2.22	0.68
38:1g:144:MET:HE3	38:1g:148:ASN:OD1	1.94	0.68
40:1i:110:GLU:HG2	40:1i:119:ALA:HB1	1.74	0.68
42:1k:52:GLY:N	42:1k:55:LYS:HE2	2.07	0.68
1:2A:91:C:H2'	1:2A:92:G:H5'	1.74	0.68
1:2A:311:C:O2'	1:2A:312:A:H5'	1.93	0.68
1:2A:953:C:O3'	59:2A:3823:HOH:O	2.11	0.68
1:2A:1755:U:O2'	1:2A:2868:G:H1'	1.92	0.68
1:2A:2084:C:H2'	1:2A:2085:C:H5'	1.74	0.68
1:2A:2573:U:H2'	1:2A:2574:U:H5'	1.76	0.68
2:2B:43:C:C5'	26:24:1:MET:HG2	2.23	0.68
2:2B:102:A:OP2	59:2B:304:HOH:O	2.11	0.68
5:2F:143:ALA:HB1	5:2F:148:LEU:HB2	1.75	0.68
8:2I:94:ALA:HB2	8:2I:114:LEU:HD23	1.75	0.68
21:2Z:144:LEU:HD11	21:2Z:150:LEU:HD13	1.74	0.68
32:2a:272:G:H2'	32:2a:273:C:H5'	1.74	0.68
32:2a:1217:U:O3'	52:2u:3:LYS:HB2	1.93	0.68
32:2a:1275:G:H2'	32:2a:1276:G:C8	2.28	0.68
33:2b:15:VAL:HB	33:2b:209:ARG:CB	2.23	0.68
39:2h:51:VAL:HG11	39:2h:60:ARG:HH11	1.59	0.68
49:2r:61:LYS:O	49:2r:64:ARG:N	2.26	0.68
1:1A:389:G:H2'	1:1A:390:G:C8	2.29	0.68
1:1A:590:U:O5'	1:1A:989:A:N6	2.26	0.68
1:1A:2063:A:H2'	1:1A:2064:C:H5'	1.74	0.68
1:1A:2071:C:OP1	59:1A:4262:HOH:O	2.12	0.68
1:1A:2486:C:OP2	59:1A:4240:HOH:O	2.10	0.68
1:1A:2612:C:O2'	1:1A:2613:A:H5"	1.92	0.68
13:1R:40:LYS:O	59:1R:307:HOH:O	2.12	0.68
25:13:8:LEU:HD11	25:13:23:LEU:CD2	2.22	0.68
31:19:32:HIS:O	31:19:34:GLN:HG3	1.92	0.68
32:1a:149:C:H2'	32:1a:150:C:H5'	1.74	0.68
32:1a:273:C:H5"	48:1q:68:ARG:NH2	2.08	0.68
32:1a:561:G:N2	32:1a:748:C:O2	2.19	0.68
32:1a:1044:G:OP1	41:1j:59:SER:OG	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1052:C:O2'	32:1a:1174:C:O2	2.11	0.68
33:1b:231:GLU:HB3	33:1b:232:PRO:CD	2.23	0.68
35:1d:89:THR:OG1	59:1d:601:HOH:O	2.10	0.68
36:1e:30:ALA:N	36:1e:46:GLY:O	2.27	0.68
37:1f:97:PHE:O	49:1r:31:LEU:N	2.21	0.68
38:1g:16:LEU:HD11	40:1i:42:ARG:HA	1.75	0.68
40:1i:10:ARG:HG2	40:1i:75:ASP:CB	2.21	0.68
44:1m:65:LYS:NZ	44:1m:73:GLU:HB2	2.09	0.68
50:1s:19:VAL:HG11	50:1s:44:MET:HG2	1.75	0.68
1:2A:880:C:O4'	59:2A:3825:HOH:O	2.11	0.68
1:2A:1057:U:H5	9:2N:28:THR:HG21	1.57	0.68
1:2A:1813:A:OP2	59:2A:3693:HOH:O	2.10	0.68
1:2A:2083:A:OP1	59:2A:3822:HOH:O	2.11	0.68
1:2A:2855:G:P	15:2T:54:ARG:HB2	2.34	0.68
2:2B:38:C:OP2	59:2B:303:HOH:O	2.10	0.68
4:2E:46:ALA:CB	4:2E:82:ARG:HA	2.23	0.68
6:2G:105:LYS:O	6:2G:109:VAL:HB	1.93	0.68
6:2G:111:LEU:HB3	6:2G:117:PHE:CE2	2.28	0.68
32:2a:461:G:H2'	32:2a:462:G:C8	2.28	0.68
32:2a:544:U:H4'	32:2a:545:U:O5'	1.93	0.68
32:2a:1050:A:O2'	32:2a:1076:A:O3'	2.07	0.68
32:2a:1307:C:OP1	52:2u:15:ARG:NH1	2.26	0.68
35:2d:106:TYR:HD2	35:2d:114:ARG:HG3	1.57	0.68
40:2i:16:ARG:N	40:2i:64:THR:O	2.21	0.68
1:1A:1613:A:OP1	3:1D:60:ARG:NE	2.26	0.68
1:1A:2150:C:C2	1:1A:2180:G:N1	2.61	0.68
1:1A:2532:C:O2'	1:1A:2575:A:N3	2.24	0.68
6:1G:51:ARG:O	6:1G:53:LEU:N	2.25	0.68
14:1S:89:ARG:N	59:1S:302:HOH:O	2.27	0.68
30:18:61:LEU:C	30:18:63:PRO:HD3	2.18	0.68
32:1a:832:G:H3'	32:1a:849:U:O4	1.92	0.68
41:1j:65:LEU:HB2	45:1n:56:VAL:HG22	1.73	0.68
42:1k:109:VAL:HG23	49:1r:85:LEU:O	1.94	0.68
48:1q:45:HIS:CD2	48:1q:47:PRO:HG3	2.27	0.68
1:2A:516:A:H2'	1:2A:517:G:O4'	1.94	0.68
1:2A:1262:C:O2'	1:2A:1263:G:H5'	1.93	0.68
1:2A:1988:C:H2'	1:2A:1989:G:H5'	1.75	0.68
1:2A:2565:U:O4	59:2A:3824:HOH:O	2.11	0.68
18:2W:32:ALA:O	18:2W:35:ILE:N	2.26	0.68
20:2Y:8:LYS:HG2	20:2Y:11:ASP:OD2	1.92	0.68
25:23:26:LEU:O	25:23:35:ARG:NE	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:127:THR:OG1	35:2d:130:GLY:O	2.11	0.68
40:2i:19:LEU:HD12	40:2i:84:ALA:HB3	1.75	0.68
44:2m:25:ILE:HD12	44:2m:29:ARG:HD3	1.76	0.68
1:1A:103:C:HO2'	1:1A:317:A:HO2'	1.41	0.68
1:1A:649:G:O2'	1:1A:650:U:H5'	1.94	0.68
1:1A:1858:G:OP1	59:1A:4267:HOH:O	2.12	0.68
1:1A:2037:U:H1'	27:15:6:VAL:HG22	1.76	0.68
1:1A:2524:G:OP2	59:1A:4239:HOH:O	2.10	0.68
2:1B:30:C:C2'	2:1B:31:C:H5'	2.19	0.68
7:1H:25:LYS:HE3	7:1H:27:LYS:NZ	2.09	0.68
20:1Y:19:LYS:HE3	20:1Y:20:TYR:HE1	1.58	0.68
32:1a:374:G:N2	32:1a:381:C:O2	2.18	0.68
32:1a:423:U:OP2	35:1d:36:ARG:NH1	2.24	0.68
32:1a:622:G:O2'	32:1a:623:G:H5'	1.94	0.68
32:1a:691:C:O2'	32:1a:692:C:H5'	1.93	0.68
32:1a:722:C:OP1	37:1f:2:ARG:NH1	2.23	0.68
32:1a:781:C:O2'	32:1a:782:G:H5'	1.94	0.68
32:1a:856:G:C5'	39:1h:89:PRO:HG2	2.24	0.68
32:1a:860:C:OP2	43:1l:13:LYS:NZ	2.26	0.68
32:1a:1312:U:H5'	44:1m:24:GLY:H	1.58	0.68
33:1b:67:THR:HA	33:1b:90:MET:CE	2.23	0.68
35:1d:57:ARG:NH2	36:1e:107:ARG:HD3	2.09	0.68
40:1i:17:VAL:HG21	40:1i:81:ILE:CG2	2.22	0.68
1:2A:1182:G:O2'	9:2N:102:ALA:O	2.12	0.68
1:2A:1323:A:H2'	1:2A:1324:G:C8	2.27	0.68
1:2A:1483:U:O2'	1:2A:1484:A:H5'	1.94	0.68
1:2A:2155:A:O2'	1:2A:2180:G:N3	2.27	0.68
1:2A:2837:C:H2'	1:2A:2838:C:C6	2.29	0.68
8:2I:130:TYR:HD2	8:2I:132:PRO:HD3	1.56	0.68
37:2f:26:ILE:O	37:2f:30:LEU:HG	1.94	0.68
1:1A:28:U:O4	59:1A:4226:HOH:O	2.09	0.68
1:1A:746:G:OP2	59:1A:4263:HOH:O	2.12	0.68
1:1A:989:A:OP1	59:1A:4269:HOH:O	2.12	0.68
1:1A:1146:U:H2'	1:1A:1147:C:H6	1.58	0.68
1:1A:1384:G:O2'	59:1A:4261:HOH:O	2.12	0.68
1:1A:1565:U:H2'	1:1A:1566:G:O4'	1.93	0.68
1:1A:2227:G:O2'	1:1A:2228:A:OP1	2.10	0.68
1:1A:2400:G:H5"	1:1A:2401:U:H5'	1.74	0.68
3:1D:52:ARG:NH1	3:1D:249:PRO:HG2	2.08	0.68
16:1U:63:VAL:O	59:1U:306:HOH:O	2.11	0.68
25:13:39:ASP:OD2	25:13:44:ARG:NH2	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:377:C:H2'	32:1a:378:A:O4'	1.94	0.68
32:1a:436:A:H3'	32:1a:437:C:C5	2.29	0.68
32:1a:1002:G:H2'	32:1a:1003:G:C8	2.28	0.68
32:1a:1310:C:H2'	32:1a:1311:A:C8	2.29	0.68
32:1a:1496:MA6:N6	32:1a:1497:MA6:H103	2.08	0.68
34:1c:159:GLY:HA2	34:1c:193:TYR:CE2	2.29	0.68
35:1d:61:LYS:CG	35:1d:75:PHE:HE2	2.07	0.68
45:1n:27:CYS:HB3	45:1n:43:CYS:SG	2.34	0.68
51:1t:64:ASP:OD1	51:1t:81:LYS:HD2	1.94	0.68
1:2A:272:G:O2'	1:2A:273:U:O5'	2.11	0.68
1:2A:770:U:H2'	1:2A:771:G:O4'	1.94	0.68
1:2A:807:A:OP1	59:2A:3808:HOH:O	2.11	0.68
1:2A:1711:A:OP2	59:2A:3686:HOH:O	2.12	0.68
1:2A:2365:G:O6	1:2A:2374:C:N4	2.19	0.68
1:2A:2374:C:O2'	1:2A:2375:C:H5'	1.93	0.68
1:2A:2760:A:H5'	7:2H:4:ILE:HD12	1.76	0.68
5:2F:153:SER:OG	5:2F:190:GLU:N	2.20	0.68
8:2I:92:VAL:CG2	8:2I:120:ILE:HB	2.24	0.68
28:26:6:ARG:HH21	28:26:24:GLU:HG3	1.59	0.68
32:2a:433:U:H5"	35:2d:155:LEU:HD11	1.74	0.68
32:2a:613:G:H2'	32:2a:614:G:O4'	1.94	0.68
32:2a:688:A:OP1	59:2a:1926:HOH:O	2.11	0.68
32:2a:1241:C:N4	32:2a:1242:C:O2	2.26	0.68
36:2e:100:VAL:HA	36:2e:118:ILE:HG22	1.76	0.68
38:2g:61:VAL:O	38:2g:64:GLN:N	2.26	0.68
39:2h:38:ILE:HD11	39:2h:118:VAL:HG12	1.76	0.68
40:2i:51:ARG:CG	40:2i:56:LEU:HD21	2.23	0.68
1:1A:95:C:OP1	24:12:2:LYS:NZ	2.23	0.68
1:1A:879:U:O2'	30:18:57:ARG:NH1	2.27	0.68
1:1A:1084:G:H2'	1:1A:1085:C:H5'	1.76	0.68
4:1E:47:VAL:HG23	4:1E:84:PHE:O	1.93	0.68
17:1V:77:ALA:N	59:1V:313:HOH:O	2.27	0.68
32:1a:198:G:H1'	51:1t:103:GLY:HA3	1.74	0.68
32:1a:1494:G:H2'	32:1a:1496:MA6:OP2	1.93	0.68
33:1b:32:ILE:HG23	33:1b:41:ILE:O	1.94	0.68
34:1c:131:ARG:NE	34:1c:135:LYS:HE3	2.09	0.68
39:1h:86:ILE:CG1	39:1h:133:LEU:HD22	2.24	0.68
1:2A:121:G:N2	1:2A:123:A:O2'	2.27	0.68
1:2A:1130:A:H5'	1:2A:1131:A:OP2	1.94	0.68
1:2A:1551:C:H2'	1:2A:1552:A:H5'	1.76	0.68
1:2A:1883:A:N3	1:2A:2244:U:O2'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2091:G:OP2	59:2A:3828:HOH:O	2.12	0.68
1:2A:2192:A:H4'	1:2A:2193:U:OP1	1.94	0.68
1:2A:2294:C:C2'	1:2A:2295:C:H5'	2.21	0.68
1:2A:2366:C:O2'	22:20:39:ARG:NE	2.18	0.68
1:2A:2685:G:O2'	10:2O:29:ASN:OD1	2.07	0.68
1:2A:2817:U:H3'	1:2A:2899:G:O6	1.93	0.68
1:2A:2854:G:H5"	15:2T:54:ARG:O	1.94	0.68
1:2A:2858:U:H4'	1:2A:2877:A:C2	2.28	0.68
5:2F:155:LEU:CB	5:2F:189:THR:HG21	2.21	0.68
6:2G:64:THR:OG1	6:2G:66:GLN:O	2.12	0.68
6:2G:107:LEU:HA	6:2G:111:LEU:CD1	2.23	0.68
21:2Z:29:TYR:HA	21:2Z:33:LEU:HD12	1.76	0.68
32:2a:107:G:N3	32:2a:349:A:O2'	2.24	0.68
32:2a:493:A:O2'	32:2a:494:A:OP1	2.08	0.68
32:2a:526:G:OP1	35:2d:10:ARG:NH1	2.26	0.68
32:2a:1308:C:O2'	32:2a:1309:C:H5'	1.93	0.68
39:2h:23:SER:HB2	39:2h:61:VAL:O	1.94	0.68
45:2n:26:ARG:HD2	45:2n:47:LEU:HD11	1.76	0.68
50:2s:11:VAL:HG22	50:2s:39:THR:HB	1.76	0.68
1:1A:461:C:C2'	1:1A:462:C:H5'	2.24	0.68
1:1A:1110:U:O2	1:1A:1111:U:N3	2.26	0.68
1:1A:1175:U:N3	1:1A:2046:C:OP1	2.26	0.68
1:1A:1373:G:O6	59:1A:4247:HOH:O	2.11	0.68
1:1A:1849:A:N1	59:1A:4433:HOH:O	2.27	0.68
1:1A:2202:G:H2'	1:1A:2203:G:C8	2.28	0.68
1:1A:2340:G:H2'	1:1A:2341:G:C8	2.29	0.68
1:1A:2664:U:H3'	1:1A:2665:A:C8	2.28	0.68
3:1D:4:LYS:HE3	3:1D:6:PHE:CE1	2.29	0.68
14:1S:74:ALA:HA	14:1S:110:LEU:CD1	2.23	0.68
21:1Z:99:TYR:CE1	21:1Z:125:LEU:HB2	2.29	0.68
32:1a:381:C:O2'	32:1a:382:C:H5'	1.94	0.68
32:1a:529:C:H2'	32:1a:530:G:H5'	1.76	0.68
32:1a:705:G:H4'	32:1a:706:A:O4'	1.93	0.68
32:1a:1248:G:N2	32:1a:1251:A:OP2	2.15	0.68
35:1d:62:GLN:NE2	35:1d:65:ARG:HH21	1.90	0.68
38:1g:75:VAL:HA	38:1g:88:PRO:HA	1.76	0.68
40:1i:26:VAL:HB	40:1i:33:PHE:HB2	1.76	0.68
41:1j:65:LEU:HD13	45:1n:56:VAL:HG23	1.75	0.68
47:1p:49:LEU:CD1	47:1p:73:LEU:HD12	2.22	0.68
1:2A:596:C:N3	4:2E:145:LYS:NZ	2.41	0.68
1:2A:1115:A:H2'	1:2A:1116:G:H8	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1761:G:O2'	1:2A:1762:G:H5'	1.93	0.68
1:2A:2889:C:C2'	1:2A:2890:C:H5'	2.24	0.68
5:2F:157:VAL:CB	5:2F:194:MET:HG2	2.22	0.68
17:2V:58:VAL:N	17:2V:98:GLU:O	2.23	0.68
19:2X:27:THR:O	59:2X:202:HOH:O	2.12	0.68
21:2Z:4:ARG:HH22	21:2Z:66:SER:CB	2.05	0.68
21:2Z:54:HIS:CD2	21:2Z:101:PRO:HG3	2.28	0.68
21:2Z:71:VAL:HG22	21:2Z:88:PHE:HE1	1.57	0.68
32:2a:523:A:OP2	43:2l:115:LYS:NZ	2.25	0.68
32:2a:536:U:C4'	43:2l:87:GLY:HA2	2.24	0.68
32:2a:810:C:H2'	32:2a:811:U:C6	2.29	0.68
32:2a:1215:G:N2	32:2a:1347:U:O2	2.18	0.68
34:2c:181:ASN:N	34:2c:205:GLY:O	2.26	0.68
39:2h:34:GLU:OE1	39:2h:37:ARG:NH2	2.21	0.68
1:1A:796:A:OP1	1:1A:1660:C:N4	2.27	0.67
1:1A:1850:U:O2	3:1D:202:LYS:N	2.25	0.67
1:1A:2096:U:OP2	1:1A:2249:G:O2'	2.12	0.67
12:1Q:55:VAL:HG21	21:1Z:183:LEU:HD21	1.76	0.67
30:18:32:LEU:O	30:18:36:LYS:HE3	1.93	0.67
32:1a:16:G:OP1	32:1a:1379:A:O2'	2.10	0.67
32:1a:402:G:H21	35:1d:119:GLN:HE22	1.42	0.67
32:1a:933:U:H2'	32:1a:934:U:C6	2.29	0.67
32:1a:1217:U:H2'	32:1a:1218:A:O4'	1.94	0.67
36:1e:76:ILE:HB	36:1e:77:PRO:HD2	1.76	0.67
41:1j:11:PHE:CD2	45:1n:55:GLY:HA3	2.29	0.67
43:1l:97:ARG:C	43:1l:98:TYR:HD1	2.02	0.67
1:2A:425:G:H2'	1:2A:426:G:H5'	1.76	0.67
1:2A:1381:A:H2'	1:2A:1382:G:H8	1.59	0.67
1:2A:2118:C:O2	1:2A:2213:G:N1	2.20	0.67
1:2A:2133:G:H2'	1:2A:2134:U:C6	2.29	0.67
1:2A:2274:C:O2'	1:2A:2275:C:H5'	1.93	0.67
1:2A:2287:G:OP2	12:2Q:84:GLY:HA2	1.95	0.67
4:2E:108:SER:HB3	4:2E:165:VAL:CG2	2.24	0.67
6:2G:129:GLY:O	6:2G:161:THR:HB	1.92	0.67
8:2I:25:TYR:O	8:2I:29:TYR:HB3	1.94	0.67
15:2T:42:ILE:HG21	15:2T:84:GLN:OE1	1.94	0.67
19:2X:56:THR:C	19:2X:57:LEU:HD12	2.19	0.67
21:2Z:30:ASN:O	21:2Z:32:HIS:N	2.27	0.67
32:2a:1219:C:HO2'	32:2a:1282:G:H22	1.42	0.67
33:2b:87:ARG:HH22	33:2b:216:SER:HA	1.59	0.67
44:2m:102:ARG:NH2	44:2m:104:ARG:HD3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:323:A:O2'	1:1A:341:C:O2'	2.10	0.67
1:1A:471:G:OP2	59:1A:4253:HOH:O	2.11	0.67
1:1A:819:U:H4'	3:1D:46:GLN:O	1.93	0.67
1:1A:1765:G:H5'	1:1A:1766:A:OP2	1.93	0.67
1:1A:2123:U:C2	1:1A:2208:G:O6	2.47	0.67
3:1D:21:PHE:O	3:1D:24:ILE:HG12	1.93	0.67
5:1F:59:TYR:CD2	5:1F:78:ILE:HG13	2.29	0.67
31:19:24:TYR:CD1	31:19:35:ARG:HG3	2.29	0.67
32:1a:387:G:H5"	47:1p:8:ARG:NH1	2.07	0.67
32:1a:1425:G:H1'	32:1a:1426:G:OP1	1.93	0.67
34:1c:114:PRO:CG	34:1c:185:GLY:HA3	2.24	0.67
34:1c:191:THR:OG1	34:1c:194:GLY:O	2.11	0.67
37:1f:94:GLN:HG3	49:1r:32:ARG:HD3	1.75	0.67
48:1q:9:VAL:HG21	48:1q:84:LEU:HD13	1.74	0.67
51:1t:61:SER:OG	51:1t:65:LYS:HD2	1.94	0.67
1:2A:380:A:H2'	1:2A:381:U:C6	2.30	0.67
1:2A:718:C:O2'	1:2A:719:C:H5'	1.95	0.67
1:2A:1156:A:O2'	1:2A:1157:G:O2'	2.10	0.67
1:2A:1158:U:H2'	1:2A:1159:G:C8	2.29	0.67
1:2A:1391:G:OP2	59:2A:3821:HOH:O	2.13	0.67
1:2A:1786:G:H1'	1:2A:1788:G:C2	2.29	0.67
6:2G:38:VAL:HA	6:2G:93:THR:HA	1.76	0.67
14:2S:19:LYS:HE2	14:2S:42:ASP:OD2	1.93	0.67
21:2Z:30:ASN:OD1	21:2Z:33:LEU:HG	1.94	0.67
32:2a:653:U:O2'	32:2a:654:G:H5'	1.94	0.67
32:2a:729:C:OP1	32:2a:829:G:O2'	2.12	0.67
32:2a:1109:U:O4'	32:2a:1263:U:H1'	1.94	0.67
32:2a:1336:C:O2'	32:2a:1337:G:H5'	1.94	0.67
38:2g:113:GLU:OE2	38:2g:122:HIS:ND1	2.22	0.67
46:2o:21:ASP:OD2	46:2o:24:SER:HB2	1.94	0.67
48:2q:32:TYR:O	48:2q:34:LYS:N	2.25	0.67
1:1A:227:U:O4	59:1A:4250:HOH:O	2.11	0.67
1:1A:1055:A:N3	1:1A:1198:C:H1'	2.09	0.67
1:1A:2051:A:H5"	1:1A:2052:A:OP1	1.94	0.67
1:1A:2132:C:H4'	1:1A:2133:G:OP2	1.92	0.67
1:1A:2700:U:H4'	1:1A:2701:C:H5'	1.76	0.67
3:1D:106:ILE:O	3:1D:108:PRO:HD3	1.95	0.67
5:1F:40:GLN:NE2	5:1F:182:ASN:HB2	2.08	0.67
6:1G:145:THR:OG1	6:1G:148:MET:HG2	1.95	0.67
8:1I:72:LEU:O	8:1I:74:ASN:N	2.27	0.67
13:1R:33:ARG:CG	13:1R:115:GLU:HB3	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:18:65:GLU:N	59:18:205:HOH:O	2.22	0.67
32:1a:77:G:H1	32:1a:87:C:H42	1.41	0.67
32:1a:285:G:OP2	59:1a:2032:HOH:O	2.13	0.67
33:1b:130:ARG:NH2	33:1b:134:GLU:OE2	2.27	0.67
33:1b:223:ILE:HD12	33:1b:224:GLN:N	2.09	0.67
38:1g:42:ILE:HG23	38:1g:117:ALA:N	2.09	0.67
39:1h:119:LEU:HD22	39:1h:123:GLU:HB3	1.76	0.67
42:1k:65:ALA:HB1	42:1k:98:LEU:HD21	1.76	0.67
1:2A:2120:U:O4	1:2A:2211:G:O6	2.13	0.67
1:2A:2541:A:O2'	1:2A:2543:G:OP2	2.07	0.67
2:2B:31:C:H2'	2:2B:32:C:H5'	1.77	0.67
5:2F:110:LEU:O	5:2F:114:VAL:HG23	1.94	0.67
7:2H:17:VAL:HA	7:2H:25:LYS:O	1.93	0.67
9:2N:14:VAL:CG1	9:2N:138:LEU:HD12	2.22	0.67
21:2Z:5:LEU:O	21:2Z:59:LEU:HA	1.93	0.67
21:2Z:45:ASP:O	21:2Z:49:ARG:HG2	1.94	0.67
32:2a:29:G:H1	32:2a:539:C:H42	1.42	0.67
32:2a:769:G:O2'	32:2a:770:G:H5'	1.93	0.67
32:2a:1039:U:O2'	32:2a:1040:G:H5'	1.93	0.67
39:2h:34:GLU:HB2	39:2h:118:VAL:HG21	1.77	0.67
40:2i:12:GLU:O	40:2i:68:GLY:N	2.28	0.67
44:2m:81:LEU:HD22	44:2m:88:ARG:HD2	1.76	0.67
47:2p:6:LEU:HD12	47:2p:17:TYR:CB	2.24	0.67
1:1A:708:G:O2'	59:1A:4270:HOH:O	2.12	0.67
1:1A:1313:A:OP1	59:1A:4025:HOH:O	2.13	0.67
1:1A:1340:C:OP2	59:1A:4256:HOH:O	2.11	0.67
1:1A:1561:U:H2'	1:1A:1562:G:C8	2.30	0.67
1:1A:1826:U:H2'	1:1A:1827:C:C6	2.29	0.67
1:1A:2240:C:N4	59:1A:4438:HOH:O	2.27	0.67
1:1A:2346:A:O2'	1:1A:2347:A:OP2	2.11	0.67
1:1A:2640:A:O2'	1:1A:2641:G:OP2	2.10	0.67
1:1A:2701:C:N4	1:1A:2725:A:H1'	2.09	0.67
59:1A:4277:HOH:O	18:1W:97:LYS:NZ	2.27	0.67
4:1E:107:THR:N	59:1E:412:HOH:O	2.27	0.67
11:1P:89:ALA:O	11:1P:121:LYS:NZ	2.26	0.67
12:1Q:58:PHE:O	12:1Q:60:ARG:N	2.26	0.67
32:1a:254:G:H1	32:1a:264:C:H42	1.43	0.67
32:1a:751:A:OP2	59:1a:2046:HOH:O	2.11	0.67
35:1d:93:PHE:CE2	35:1d:97:LEU:HD11	2.29	0.67
36:1e:96:PRO:HA	36:1e:117:ASP:OD2	1.94	0.67
38:1g:46:ALA:O	38:1g:50:ILE:HG12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:484:U:H2'	1:2A:485:A:H8	1.60	0.67
1:2A:518:G:H21	18:2W:57:ASN:HD21	1.42	0.67
1:2A:1328:G:N2	1:2A:1331:A:OP2	2.27	0.67
1:2A:1683:A:H4'	1:2A:2722:A:O2'	1.94	0.67
1:2A:2154:G:O2'	1:2A:2179:A:N6	2.28	0.67
21:2Z:126:VAL:CG1	21:2Z:161:VAL:HG13	2.25	0.67
21:2Z:144:LEU:HD21	21:2Z:150:LEU:CD1	2.25	0.67
32:2a:312:G:OP2	32:2a:347:G:O2'	2.11	0.67
32:2a:315:G:O2'	32:2a:316:C:H5'	1.94	0.67
32:2a:1111:C:H1'	32:2a:1130:C:H42	1.59	0.67
32:2a:1127:G:O2'	32:2a:1128:C:H5'	1.95	0.67
32:2a:1290:U:OP1	44:2m:98:VAL:N	2.26	0.67
32:2a:1311:A:H2'	32:2a:1312:U:O4'	1.94	0.67
32:2a:1425:G:H1'	32:2a:1426:G:OP1	1.93	0.67
34:2c:51:GLY:O	34:2c:70:VAL:HG23	1.93	0.67
44:2m:16:ASP:HB3	44:2m:34:LEU:HD11	1.76	0.67
1:1A:1308:U:OP2	59:1A:4266:HOH:O	2.12	0.67
1:1A:1439:U:H4'	1:1A:1648:A:H4'	1.75	0.67
1:1A:2131:G:OP1	1:1A:2139:U:N3	2.27	0.67
1:1A:2582:C:O2'	4:1E:146:THR:O	2.09	0.67
1:1A:2693:U:O2'	15:1T:58:ASN:ND2	2.27	0.67
2:1B:7:G:H1	2:1B:114:C:H42	1.40	0.67
4:1E:36:ARG:NH2	4:1E:88:GLY:O	2.27	0.67
9:1N:67:LEU:HB3	9:1N:88:GLU:CG	2.24	0.67
32:1a:225:U:O2'	32:1a:226:G:H5'	1.95	0.67
32:1a:352:A:H2'	32:1a:353:G:H5'	1.77	0.67
32:1a:860:C:O2'	32:1a:861:C:H5'	1.95	0.67
32:1a:1232:A:H2'	32:1a:1233:A:O4'	1.94	0.67
32:1a:1436:G:OP1	51:1t:35:THR:OG1	2.11	0.67
33:1b:222:ILE:O	33:1b:226:ARG:N	2.27	0.67
34:1c:54:ARG:NH1	34:1c:56:ASP:OD1	2.28	0.67
1:2A:105:U:H2'	1:2A:106:G:C8	2.28	0.67
1:2A:710:C:O2'	1:2A:711:C:H5'	1.94	0.67
1:2A:749:U:H2'	1:2A:750:G:H5'	1.74	0.67
1:2A:863:C:OP1	59:2A:3826:HOH:O	2.12	0.67
1:2A:927:G:H2'	1:2A:928:G:H8	1.59	0.67
56:2A:3553:FSD:OAJ	56:2A:3553:FSD:OAH	2.10	0.67
5:2F:152:GLU:HA	5:2F:190:GLU:OE1	1.94	0.67
10:2O:78:ARG:HH21	15:2T:103:ARG:NH2	1.92	0.67
14:2S:67:ARG:NH2	14:2S:103:GLU:OE1	2.27	0.67
32:2a:409:G:O6	35:2d:35:ARG:HD3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:722:C:P	37:2f:92:LYS:HD2	2.34	0.67
32:2a:1431:U:O2'	32:2a:1432:A:O5'	2.13	0.67
34:2c:6:HIS:NE2	34:2c:8:ILE:HB	2.09	0.67
36:2e:39:GLY:HA2	36:2e:69:VAL:CG1	2.25	0.67
44:2m:91:ARG:O	44:2m:96:LEU:N	2.28	0.67
46:2o:87:ILE:HG22	46:2o:88:ARG:N	2.07	0.67
1:1A:251:C:O2'	1:1A:455:A:N3	2.25	0.67
1:1A:1038:G:OP1	16:1U:50:ARG:HD2	1.95	0.67
1:1A:2317:C:H3'	1:1A:2318:G:H8	1.59	0.67
1:1A:2723:U:OP1	1:1A:2726:G:H4'	1.95	0.67
5:1F:39:TRP:HA	5:1F:99:TYR:HE1	1.59	0.67
5:1F:51:THR:CB	5:1F:88:VAL:HG11	2.21	0.67
15:1T:91:ARG:HD2	15:1T:120:ARG:NH1	2.09	0.67
25:13:15:TYR:CE2	25:13:53:LEU:HD21	2.29	0.67
32:1a:766:A:OP1	59:1a:2048:HOH:O	2.12	0.67
32:1a:773:U:O4	59:1a:2044:HOH:O	2.10	0.67
35:1d:158:ILE:O	35:1d:162:LEU:HG	1.94	0.67
1:2A:84:C:O2'	1:2A:85:C:H5'	1.94	0.67
1:2A:1336:C:O2'	1:2A:1337:U:H5'	1.94	0.67
1:2A:1382:G:P	19:2X:73:ARG:HH22	2.16	0.67
1:2A:2119:U:H3'	1:2A:2120:U:H5"	1.75	0.67
1:2A:2595:U:H2'	1:2A:2596:U:H2'	1.76	0.67
1:2A:2831:G:OP2	59:2R:8101:HOH:O	2.11	0.67
32:2a:389:A:O2'	32:2a:390:G:H5'	1.94	0.67
32:2a:1027:A:C5	32:2a:1028:C:H1'	2.29	0.67
32:2a:1036:G:H4'	32:2a:1037:C:O5'	1.94	0.67
32:2a:1134:A:O2'	32:2a:1135:A:O5'	2.13	0.67
32:2a:1425:G:N3	32:2a:1425:G:H2'	2.10	0.67
33:2b:29:ALA:HA	33:2b:32:ILE:HD12	1.76	0.67
40:2i:5:TYR:C	40:2i:84:ALA:HB2	2.20	0.67
1:1A:890:C:H2'	1:1A:891:G:H5'	1.77	0.67
1:1A:1001:A:H5'	12:1Q:76:LYS:HG3	1.75	0.67
1:1A:1056:G:OP2	16:1U:66:ASN:ND2	2.27	0.67
1:1A:1132:G:H2'	1:1A:1134:G:O4'	1.95	0.67
1:1A:1308:U:H1'	27:15:10:LYS:HG3	1.77	0.67
1:1A:2588:A:OP2	59:1A:4281:HOH:O	2.13	0.67
2:1B:76:G:O2'	59:1B:307:HOH:O	2.12	0.67
3:1D:72:LYS:O	59:1D:410:HOH:O	2.11	0.67
8:1I:122:GLU:O	8:1I:126:TYR:OH	2.10	0.67
9:1N:38:HIS:O	59:1N:304:HOH:O	2.12	0.67
13:1R:97:VAL:O	59:1R:306:HOH:O	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1W:15:ARG:NH1	59:1W:3109:HOH:O	2.28	0.67
21:1Z:102:LEU:HB3	21:1Z:104:PHE:HE1	1.60	0.67
32:1a:89:G:O2'	32:1a:90:U:H5'	1.95	0.67
32:1a:405:G:H2'	32:1a:406:G:O4'	1.95	0.67
32:1a:905:G:N2	32:1a:1373:U:O2	2.20	0.67
33:1b:163:PHE:HA	33:1b:185:ILE:O	1.95	0.67
39:1h:86:ILE:HG13	39:1h:133:LEU:CD2	2.24	0.67
47:1p:8:ARG:HG3	47:1p:17:TYR:CE1	2.29	0.67
1:2A:280:G:H2'	1:2A:281:G:C8	2.30	0.67
1:2A:1118:A:HO2'	1:2A:1119:G:C5'	2.08	0.67
9:2N:85:ILE:HG21	9:2N:90:MET:HE2	1.77	0.67
15:2T:78:LEU:O	15:2T:78:LEU:HD23	1.93	0.67
25:23:50:VAL:O	25:23:54:VAL:HG12	1.95	0.67
32:2a:126:C:O2'	32:2a:127:C:H5'	1.95	0.67
32:2a:987:C:N3	32:2a:1000:G:O6	2.27	0.67
34:2c:127:ARG:CD	34:2c:127:ARG:CB	2.71	0.67
38:2g:50:ILE:HD11	38:2g:58:PRO:HB3	1.77	0.67
1:1A:904:U:O2	1:1A:2279:A:H2'	1.94	0.67
1:1A:1316:G:OP1	59:1A:4273:HOH:O	2.12	0.67
1:1A:1840:A:H2'	1:1A:1841:G:H5'	1.77	0.67
1:1A:1989:G:OP1	59:1A:4258:HOH:O	2.11	0.67
3:1D:28:GLU:OE2	59:1D:411:HOH:O	2.13	0.67
5:1F:49:ALA:N	59:1F:411:HOH:O	2.18	0.67
10:1O:1:MET:O	59:1O:8102:HOH:O	2.13	0.67
18:1W:83:LYS:NZ	59:1W:3106:HOH:O	2.23	0.67
26:14:53:GLU:HG3	26:14:55:ARG:H	1.60	0.67
26:14:61:ARG:HD2	50:1s:68:GLY:HA2	1.76	0.67
32:1a:172:C:OP1	51:1t:65:LYS:NZ	2.28	0.67
32:1a:1094:A:N6	34:1c:176:HIS:O	2.28	0.67
32:1a:1434:G:N1	51:1t:51:GLU:OE2	2.28	0.67
33:1b:91:PRO:HA	33:1b:151:GLY:O	1.95	0.67
50:1s:40:ILE:HB	50:1s:67:VAL:HA	1.76	0.67
1:2A:2379:C:H2'	1:2A:2380:A:C8	2.29	0.67
1:2A:2876:G:C6	15:2T:23:ARG:HD2	2.30	0.67
14:2S:74:ALA:HA	14:2S:110:LEU:CD1	2.25	0.67
25:23:39:ASP:OD1	25:23:44:ARG:HD2	1.94	0.67
32:2a:703:C:N4	49:2r:71:LYS:HE2	2.09	0.67
32:2a:716:C:OP1	59:2a:1930:HOH:O	2.13	0.67
32:2a:1118:U:H2'	32:2a:1120:C:C4	2.30	0.67
32:2a:1160:G:H2'	32:2a:1162:A:OP2	1.94	0.67
32:2a:1237:G:O2'	32:2a:1240:G:H1'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:24:TRP:CH2	33:2b:26:PRO:HA	2.29	0.67
33:2b:87:ARG:NH2	33:2b:216:SER:HA	2.10	0.67
34:2c:59:ARG:O	41:2j:92:THR:HB	1.95	0.67
35:2d:61:LYS:HD3	35:2d:206:PHE:CE2	2.29	0.67
35:2d:101:LEU:O	35:2d:105:VAL:HG23	1.95	0.67
36:2e:14:ARG:O	36:2e:28:PHE:HA	1.95	0.67
1:1A:107:G:O2'	1:1A:108:A:H5'	1.95	0.67
1:1A:1588:A:O2'	59:1A:4189:HOH:O	2.07	0.67
1:1A:2148:G:H1'	1:1A:2194:A:H2	1.58	0.67
5:1F:70:THR:OG1	59:1F:409:HOH:O	2.11	0.67
13:1R:33:ARG:HG2	13:1R:115:GLU:HB3	1.75	0.67
19:1X:39:ILE:HD13	19:1X:79:ALA:HB2	1.77	0.67
20:1Y:13:VAL:HB	20:1Y:72:VAL:HG13	1.77	0.67
21:1Z:155:LEU:HD11	21:1Z:171:ILE:CD1	2.24	0.67
32:1a:323:A:O2'	32:1a:324:C:O4'	2.10	0.67
32:1a:403:G:O2'	35:1d:116:GLN:HG2	1.94	0.67
32:1a:513:G:H2'	32:1a:514:G:H5'	1.76	0.67
32:1a:724:U:O2'	32:1a:725:G:H5'	1.95	0.67
32:1a:1087:G:H2'	32:1a:1088:A:O4'	1.94	0.67
32:1a:1092:C:OP2	34:1c:176:HIS:ND1	2.27	0.67
32:1a:1141:C:H5	32:1a:1163:G:H1	1.41	0.67
32:1a:1349:C:H2'	32:1a:1350:C:H6	1.58	0.67
33:1b:166:ASP:HB3	33:1b:169:LYS:HB3	1.75	0.67
38:1g:58:PRO:HA	38:1g:61:VAL:CG2	2.25	0.67
40:1i:74:ILE:HA	40:1i:77:ILE:HD12	1.75	0.67
1:2A:424:G:H2'	1:2A:425:G:H8	1.59	0.67
1:2A:596:C:OP2	59:2A:3834:HOH:O	2.12	0.67
1:2A:609:C:N3	11:2P:33:ARG:NE	2.37	0.67
1:2A:1120:C:C2'	1:2A:1121:C:H5'	2.25	0.67
1:2A:1943:G:H2'	1:2A:1944:U:C6	2.30	0.67
1:2A:2398:U:H1'	22:20:41:ARG:HE	1.59	0.67
3:2D:130:ALA:C	3:2D:131:LEU:HD12	2.19	0.67
32:2a:22:G:H2'	32:2a:23:G:C8	2.30	0.67
32:2a:63:U:O2'	32:2a:375:C:H1'	1.95	0.67
32:2a:206:G:H1	32:2a:214:C:H42	1.43	0.67
32:2a:744:G:H2'	32:2a:745:G:H5'	1.77	0.67
32:2a:1043:C:H5'	45:2n:45:ARG:NH1	2.05	0.67
32:2a:1051:G:N2	32:2a:1173:A:N3	2.35	0.67
39:2h:32:LYS:O	39:2h:36:LEU:HG	1.95	0.67
48:2q:6:LEU:CD2	48:2q:23:VAL:HG11	2.24	0.67
48:2q:60:ILE:HB	48:2q:74:LEU:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:453:U:OP1	59:1A:4272:HOH:O	2.12	0.67
1:1A:1208:G:O2'	1:1A:1209:G:H5'	1.94	0.67
1:1A:2441:A:OP1	59:1A:4284:HOH:O	2.13	0.67
7:1H:56:SER:OG	7:1H:61:HIS:ND1	2.27	0.67
9:1N:67:LEU:HB3	9:1N:88:GLU:HG3	1.77	0.67
10:1O:122:LEU:O	59:1O:8101:HOH:O	2.12	0.67
12:1Q:51:ARG:NH2	21:1Z:186:GLU:OE1	2.28	0.67
29:17:34:ARG:HG2	29:17:42:LEU:HD23	1.75	0.67
32:1a:45:G:C2	32:1a:46:U:H1'	2.30	0.67
32:1a:90:U:H2'	32:1a:91:G:C8	2.30	0.67
32:1a:704:C:OP2	32:1a:705:G:O2'	2.06	0.67
32:1a:926:C:OP2	44:1m:108:ARG:N	2.28	0.67
32:1a:1222:U:H4'	32:1a:1223:G:OP2	1.93	0.67
32:1a:1255:G:H3'	32:1a:1256:G:C8	2.26	0.67
35:1d:107:ARG:HH12	35:1d:194:LEU:HD11	1.59	0.67
39:1h:86:ILE:HG12	39:1h:135:CYS:HA	1.76	0.67
46:1o:9:GLN:HA	46:1o:12:ILE:HD12	1.76	0.67
47:1p:19:ILE:HG22	47:1p:37:GLY:C	2.20	0.67
47:1p:19:ILE:HG22	47:1p:37:GLY:HA3	1.77	0.67
51:1t:89:ARG:O	51:1t:93:GLU:N	2.27	0.67
1:2A:650:U:O4	11:2P:81:GLN:NE2	2.26	0.67
1:2A:1801:C:OP2	59:2A:3836:HOH:O	2.12	0.67
1:2A:2524:G:N2	4:2E:143:ASN:OD1	2.27	0.67
1:2A:2606:G:N7	59:2A:3937:HOH:O	2.27	0.67
5:2F:38:ARG:HD3	5:2F:99:TYR:OH	1.95	0.67
5:2F:187:VAL:CG1	11:2P:2:LYS:HA	2.25	0.67
8:2I:78:THR:OG1	8:2I:143:SER:OG	2.12	0.67
32:2a:365:C:H42	32:2a:388:G:H1	1.42	0.67
32:2a:522:G:OP2	43:2l:115:LYS:HB2	1.94	0.67
32:2a:628:G:H5'	39:2h:92:ARG:HH12	1.60	0.67
32:2a:858:C:O2'	32:2a:859:G:H5'	1.95	0.67
32:2a:898:U:H2'	32:2a:899:U:H6	1.60	0.67
33:2b:210:SER:O	33:2b:214:ILE:HG12	1.95	0.67
38:2g:100:ALA:C	38:2g:104:LEU:HD13	2.20	0.67
41:2j:8:LEU:HB3	41:2j:16:LEU:HD22	1.77	0.67
1:1A:200:G:O2'	1:1A:201:A:H5'	1.94	0.66
17:1V:52:VAL:HG21	17:1V:55:ALA:HB3	1.75	0.66
22:10:18:ALA:O	22:10:20:ARG:NH1	2.28	0.66
32:1a:458:A:H5"	47:1p:80:PHE:HB3	1.77	0.66
32:1a:567:A:OP2	59:1a:2050:HOH:O	2.13	0.66
32:1a:933:U:O2'	50:1s:83:HIS:HD2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:8:ILE:HG22	37:1f:10:LEU:CD1	2.25	0.66
38:1g:18:TYR:CD2	38:1g:59:LEU:HD13	2.21	0.66
50:1s:41:VAL:HG12	50:1s:44:MET:CG	2.25	0.66
51:1t:43:LEU:HD22	51:1t:48:LYS:HD3	1.76	0.66
1:2A:1877:A:H3'	1:2A:1878:A:H5'	1.77	0.66
1:2A:2166:C:O2'	1:2A:2168:G:N2	2.28	0.66
1:2A:2444:A:OP1	59:2A:3838:HOH:O	2.13	0.66
1:2A:2601:A:O2'	1:2A:2602:C:H5'	1.96	0.66
1:2A:2799:C:O2'	1:2A:2800:C:H5'	1.95	0.66
12:2Q:33:GLY:O	12:2Q:132:VAL:N	2.28	0.66
18:2W:25:ARG:HA	18:2W:71:VAL:HG11	1.77	0.66
20:2Y:8:LYS:HA	20:2Y:30:VAL:HG21	1.76	0.66
20:2Y:43:ASN:ND2	20:2Y:66:PRO:O	2.28	0.66
21:2Z:99:TYR:HE1	21:2Z:125:LEU:HD13	1.60	0.66
32:2a:598:A:O2'	32:2a:599:C:H5'	1.95	0.66
32:2a:640:C:O2'	46:2o:28:GLN:NE2	2.27	0.66
32:2a:785:U:OP1	59:2a:1929:HOH:O	2.13	0.66
35:2d:129:ASN:N	35:2d:145:GLU:O	2.21	0.66
44:2m:96:LEU:C	44:2m:110:ARG:HG2	2.20	0.66
47:2p:4:ILE:HB	47:2p:66:PRO:HB3	1.77	0.66
1:1A:838:G:N3	1:1A:2093:G:O2'	2.24	0.66
1:1A:1388:G:OP1	59:1A:4257:HOH:O	2.11	0.66
1:1A:1697:G:N3	59:1A:4448:HOH:O	2.28	0.66
1:1A:1927:G:H1	1:1A:1945:C:H42	1.42	0.66
1:1A:2443:A:OP2	59:1A:4274:HOH:O	2.13	0.66
3:1D:231:HIS:CD2	3:1D:249:PRO:HG3	2.30	0.66
6:1G:106:LEU:HD12	6:1G:110:ALA:HB3	1.77	0.66
15:1T:24:PRO:HA	15:1T:49:VAL:O	1.94	0.66
16:1U:15:LYS:O	59:1U:307:HOH:O	2.13	0.66
32:1a:225:U:H5"	47:1p:33:ILE:HD13	1.75	0.66
32:1a:898:U:O2'	32:1a:899:U:H5'	1.95	0.66
32:1a:955:A:O2'	32:1a:959:U:N3	2.24	0.66
32:1a:1276:G:O2'	32:1a:1277:G:H5'	1.94	0.66
36:1e:57:LYS:HG2	36:1e:61:TYR:CE2	2.29	0.66
36:1e:128:PRO:HA	36:1e:131:ILE:HG22	1.76	0.66
50:1s:41:VAL:CG2	50:1s:42:PRO:HD2	2.22	0.66
1:2A:26:G:N2	1:2A:536:G:H1'	2.09	0.66
1:2A:1039:C:H3'	16:2U:54:LYS:HZ2	1.60	0.66
1:2A:1192:C:H2'	1:2A:1193:A:H8	1.60	0.66
1:2A:1662:C:OP1	59:2A:3829:HOH:O	2.12	0.66
1:2A:1670:C:H2'	1:2A:1671:G:O4'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2440:G:OP2	59:2A:3622:HOH:O	2.11	0.66
1:2A:2673:A:H2'	1:2A:2674:G:O4'	1.94	0.66
5:2F:53:THR:O	5:2F:55:GLY:N	2.27	0.66
12:2Q:59:ARG:HG2	12:2Q:60:ARG:HG2	1.78	0.66
14:2S:23:ARG:HD3	14:2S:85:VAL:C	2.20	0.66
14:2S:35:ILE:HD13	14:2S:66:ALA:CB	2.25	0.66
20:2Y:7:VAL:HG12	20:2Y:8:LYS:N	2.09	0.66
26:24:14:ILE:HD11	26:24:24:THR:CG2	2.24	0.66
32:2a:234:G:O2'	32:2a:235:U:H5'	1.95	0.66
42:2k:61:ALA:CB	42:2k:94:ALA:HB2	2.24	0.66
48:2q:3:LYS:HA	48:2q:61:GLU:OE2	1.95	0.66
1:1A:121:G:OP1	1:1A:1421:C:O2'	2.10	0.66
1:1A:956:A:H5"	1:1A:957:C:H5"	1.77	0.66
1:1A:1039:C:O2'	1:1A:1041:A:OP1	2.12	0.66
3:1D:6:PHE:HD2	3:1D:13:ARG:HD2	1.58	0.66
5:1F:170:LEU:HD21	5:1F:172:TRP:CZ2	2.31	0.66
7:1H:117:PRO:HG3	7:1H:123:PHE:CD2	2.30	0.66
30:18:65:GLU:HG2	59:18:205:HOH:O	1.96	0.66
32:1a:287:C:O2'	32:1a:288:G:H5'	1.95	0.66
32:1a:348:C:OP2	59:1a:2047:HOH:O	2.11	0.66
32:1a:389:A:O2'	32:1a:390:G:H5'	1.96	0.66
44:1m:15:VAL:HG12	44:1m:45:VAL:CG2	2.25	0.66
1:2A:706:G:H5"	5:2F:99:TYR:CE2	2.31	0.66
1:2A:727:G:OP2	59:2A:3840:HOH:O	2.13	0.66
1:2A:1185:U:OP2	9:2N:63:THR:OG1	2.12	0.66
1:2A:2691:C:H1'	4:2E:187:ALA:CB	2.25	0.66
6:2G:39:ILE:HB	6:2G:92:VAL:HG12	1.77	0.66
6:2G:77:ILE:CG2	6:2G:80:PHE:HB2	2.26	0.66
12:2Q:34:LEU:HD11	12:2Q:129:THR:HB	1.76	0.66
15:2T:23:ARG:HB2	15:2T:120:ARG:NH1	2.10	0.66
16:2U:69:CYS:HB3	16:2U:74:LEU:HD12	1.76	0.66
16:2U:76:TYR:CE1	16:2U:80:ILE:HD11	2.31	0.66
21:2Z:151:HIS:ND1	21:2Z:168:GLU:O	2.28	0.66
21:2Z:153:SER:HB3	21:2Z:167:PRO:CB	2.25	0.66
26:24:59:PHE:CE1	50:2s:42:PRO:HG3	2.30	0.66
32:2a:386:C:O3'	47:2p:28:ARG:NH2	2.26	0.66
32:2a:524:G:H2'	32:2a:525:G:O4'	1.95	0.66
32:2a:666:G:O2'	32:2a:667:G:H5'	1.95	0.66
32:2a:721:A:H2'	32:2a:722:C:H6	1.59	0.66
32:2a:1057:G:H2'	32:2a:1058:C:C6	2.31	0.66
32:2a:1077:G:O2'	32:2a:1091:G:N2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1200:C:H2'	32:2a:1201:U:C6	2.30	0.66
35:2d:32:ALA:HB3	58:2d:501:SF4:S2	2.35	0.66
36:2e:42:GLY:HA3	36:2e:65:ASN:O	1.96	0.66
51:2t:29:LYS:HD3	51:2t:66:ALA:CB	2.26	0.66
1:1A:99:G:OP1	24:12:7:ARG:NH2	2.28	0.66
1:1A:2226:G:H4'	1:1A:2226:G:OP2	1.92	0.66
5:1F:12:LEU:HB3	5:1F:126:VAL:HG12	1.77	0.66
12:1Q:35:VAL:HG12	12:1Q:130:LYS:O	1.96	0.66
32:1a:50:U:H3	32:1a:358:G:H1'	1.59	0.66
32:1a:312:G:H4'	59:1a:2144:HOH:O	1.95	0.66
32:1a:957:C:O2	45:1n:19:ARG:NE	2.26	0.66
32:1a:1305:G:H4'	32:1a:1345:C:N3	2.11	0.66
40:1i:22:GLY:H	40:1i:59:PHE:HA	1.61	0.66
1:2A:596:C:OP1	59:2A:3843:HOH:O	2.13	0.66
1:2A:956:A:H2'	12:2Q:9:TYR:OH	1.96	0.66
1:2A:1318:U:OP2	59:2A:3846:HOH:O	2.13	0.66
1:2A:1701:A:O2'	4:2E:115:GLY:HA2	1.95	0.66
1:2A:2013:G:O3'	59:2A:3837:HOH:O	2.13	0.66
1:2A:2068:U:O2'	1:2A:2832:A:N1	2.28	0.66
1:2A:2505:G:H5'	59:2A:4046:HOH:O	1.95	0.66
1:2A:2704:A:H2'	1:2A:2705:G:C8	2.26	0.66
2:2B:14:U:H1'	2:2B:108:U:O2'	1.96	0.66
19:2X:55:ASN:O	19:2X:80:ILE:N	2.25	0.66
32:2a:426:A:OP2	35:2d:8:VAL:HG12	1.94	0.66
32:2a:1010:G:H21	32:2a:1012:G:H3'	1.60	0.66
32:2a:1117:G:C2'	32:2a:1118:U:H5'	2.25	0.66
36:2e:88:LYS:HB3	36:2e:123:LEU:CB	2.25	0.66
39:2h:90:GLY:O	48:2q:34:LYS:HD2	1.95	0.66
41:2j:22:LYS:HA	41:2j:25:GLU:HB2	1.77	0.66
46:2o:43:LEU:HD12	46:2o:56:LEU:HD22	1.78	0.66
48:2q:48:GLU:OE1	48:2q:50:LYS:HD3	1.95	0.66
1:1A:767:C:H2'	1:1A:768:A:H8	1.61	0.66
1:1A:1953:A:OP2	59:1A:4265:HOH:O	2.12	0.66
32:1a:156:A:H2'	32:1a:157:A:C8	2.31	0.66
32:1a:186:C:N4	32:1a:193:G:H1	1.94	0.66
32:1a:1006:C:H2'	32:1a:1007:C:C6	2.30	0.66
32:1a:1115:C:H2'	32:1a:1116:G:O4'	1.96	0.66
33:1b:42:ILE:O	33:1b:44:LEU:HD12	1.96	0.66
1:2A:230:G:C8	30:28:5:LYS:HG2	2.29	0.66
1:2A:310:C:H2'	1:2A:311:C:H6	1.60	0.66
1:2A:736:G:O2'	1:2A:826:G:OP1	2.07	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1231:G:O6	59:2A:3806:HOH:O	2.09	0.66
1:2A:1351:C:H42	1:2A:1667:G:H1	1.44	0.66
1:2A:1361:U:H2'	1:2A:1362:A:H8	1.59	0.66
1:2A:1502:G:OP2	59:2A:3833:HOH:O	2.12	0.66
1:2A:2188:U:H2'	1:2A:2189:G:C4	2.31	0.66
10:2O:11:ALA:O	10:2O:99:PHE:N	2.23	0.66
32:2a:461:G:H2'	32:2a:462:G:H8	1.61	0.66
32:2a:622:G:O2'	32:2a:623:G:H5'	1.95	0.66
32:2a:1171:C:H4'	34:2c:10:PHE:CE1	2.30	0.66
32:2a:1302:C:C1'	50:2s:73:GLU:HG2	2.25	0.66
36:2e:105:VAL:HB	36:2e:106:PRO:CD	2.25	0.66
37:2f:22:GLU:OE2	37:2f:82:ARG:NH2	2.26	0.66
37:2f:98:LEU:HD23	49:2r:28:GLU:HG3	1.76	0.66
39:2h:97:VAL:HA	39:2h:100:ILE:HD12	1.76	0.66
41:2j:46:ARG:HG2	41:2j:64:GLU:CB	2.24	0.66
42:2k:80:VAL:CG1	42:2k:103:LEU:HD23	2.25	0.66
1:1A:596:C:OP2	59:1A:4276:HOH:O	2.13	0.66
1:1A:940:U:O2'	1:1A:941:A:OP1	2.11	0.66
1:1A:1372:C:OP2	59:1A:4283:HOH:O	2.13	0.66
1:1A:1571:G:H2'	1:1A:1572:G:O4'	1.96	0.66
1:1A:2431:C:OP1	30:18:34:TRP:HB3	1.95	0.66
1:1A:2880:C:N3	59:1A:4447:HOH:O	2.28	0.66
6:1G:33:ARG:O	6:1G:161:THR:HG23	1.94	0.66
19:1X:39:ILE:O	19:1X:42:ALA:N	2.27	0.66
21:1Z:158:PRO:HD2	21:1Z:161:VAL:HG21	1.76	0.66
32:1a:25:U:H2'	32:1a:26:C:H6	1.61	0.66
32:1a:949:G:OP1	32:1a:950:C:H5"	1.94	0.66
32:1a:986:C:N3	32:1a:1001:G:O6	2.29	0.66
39:1h:9:MET:HE1	39:1h:35:ILE:HD13	1.77	0.66
1:2A:267:G:H2'	1:2A:268:G:H8	1.59	0.66
1:2A:579:U:O2	9:2N:45:ASN:HB2	1.94	0.66
1:2A:1086:C:H42	1:2A:1159:G:H22	1.43	0.66
1:2A:1098:C:H2'	1:2A:1099:A:C8	2.29	0.66
1:2A:2130:U:OP2	1:2A:2171:U:H4'	1.94	0.66
1:2A:2613:A:C1'	1:2A:2614:G:H5"	2.22	0.66
3:2D:38:LYS:NZ	3:2D:39:LYS:O	2.28	0.66
4:2E:73:GLU:HG3	4:2E:74:PRO:HD2	1.78	0.66
6:2G:126:ASP:HB2	6:2G:130:ASN:O	1.95	0.66
7:2H:101:ARG:NH2	7:2H:121:ILE:O	2.27	0.66
15:2T:66:VAL:HA	15:2T:71:GLY:HA2	1.77	0.66
21:2Z:27:VAL:HA	21:2Z:37:VAL:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:23:6:VAL:CG1	25:23:54:VAL:HG21	2.25	0.66
32:2a:427:A:H2'	32:2a:428:A:O4'	1.94	0.66
32:2a:929:G:H1'	32:2a:948:C:O2'	1.95	0.66
32:2a:1007:C:H2'	32:2a:1016:G:H22	1.60	0.66
32:2a:1125:G:H2'	32:2a:1126:G:O4'	1.96	0.66
44:2m:11:ARG:HA	44:2m:45:VAL:CB	2.22	0.66
49:2r:73:ALA:HB3	49:2r:79:LEU:HD12	1.77	0.66
1:1A:2071:C:OP2	59:1A:4286:HOH:O	2.13	0.66
1:1A:2813:C:H2'	1:1A:2814:C:C6	2.31	0.66
6:1G:107:LEU:HD11	6:1G:178:PHE:HE1	1.60	0.66
10:1O:35:VAL:CG1	10:1O:103:ALA:HB3	2.26	0.66
15:1T:60:THR:HG22	15:1T:77:PRO:HA	1.77	0.66
20:1Y:99:CYS:HB3	20:1Y:102:CYS:O	1.96	0.66
21:1Z:182:LYS:O	21:1Z:186:GLU:HG3	1.94	0.66
28:16:11:LEU:HB3	28:16:49:HIS:HB3	1.76	0.66
32:1a:240:U:H4'	32:1a:241:C:H5"	1.77	0.66
32:1a:1227:A:H2'	32:1a:1228:C:C6	2.31	0.66
1:2A:122:G:O6	29:27:10:ARG:NH1	2.29	0.66
1:2A:1386:U:O2	19:2X:80:ILE:HD12	1.96	0.66
1:2A:2482:C:OP2	59:2A:3845:HOH:O	2.13	0.66
5:2F:70:THR:OG1	59:2F:402:HOH:O	2.13	0.66
12:2Q:43:THR:HB	12:2Q:45:GLN:OE1	1.96	0.66
16:2U:97:ASP:OD1	16:2U:101:ARG:NE	2.22	0.66
17:2V:2:PHE:CE1	17:2V:41:GLY:HA3	2.30	0.66
32:2a:199:U:H4'	51:2t:57:ARG:HD3	1.78	0.66
32:2a:397:C:O2'	32:2a:605:A:N3	2.20	0.66
32:2a:483:A:H4'	32:2a:484:G:H5'	1.76	0.66
32:2a:839:G:H21	32:2a:852:G:C4'	2.09	0.66
32:2a:953:A:C4'	32:2a:954:G:H5"	2.19	0.66
32:2a:1010:G:C2'	32:2a:1011:C:H5"	2.25	0.66
32:2a:1496:MA6:C9	32:2a:1497:MA6:H102	2.26	0.66
33:2b:72:GLY:HA3	33:2b:165:VAL:HG21	1.78	0.66
37:2f:3:ARG:C	37:2f:4:TYR:HD1	2.03	0.66
45:2n:33:VAL:HA	45:2n:39:LEU:O	1.96	0.66
1:1A:696:C:H5'	1:1A:697:G:OP2	1.95	0.66
1:1A:722:A:O2'	1:1A:2453:C:O2'	2.14	0.66
1:1A:1462:C:H2'	1:1A:1463:G:O4'	1.94	0.66
1:1A:2297:A:H4'	1:1A:2298:A:O4'	1.95	0.66
59:1A:4002:HOH:O	27:15:11:THR:N	2.28	0.66
32:1a:417:U:O2'	32:1a:419:G:O6	2.07	0.66
32:1a:529:C:OP1	35:1d:61:LYS:NZ	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:725:G:C5'	46:1o:39:LEU:HD21	2.25	0.66
32:1a:1130:C:O2'	32:1a:1131:U:H5'	1.96	0.66
32:1a:1218:A:OP2	52:1u:3:LYS:NZ	2.29	0.66
34:1c:15:THR:OG1	34:1c:178:LEU:O	2.14	0.66
38:1g:31:MET:HA	38:1g:39:ALA:HB2	1.78	0.66
39:1h:53:VAL:O	39:1h:55:GLY:N	2.28	0.66
41:1j:82:ILE:HA	41:1j:85:LEU:HD12	1.78	0.66
51:1t:20:LEU:O	51:1t:24:LEU:HG	1.96	0.66
52:1u:18:TYR:CD2	52:1u:24:ARG:HG2	2.30	0.66
1:2A:344:G:OP1	5:2F:135:LYS:HE3	1.96	0.66
1:2A:393:C:OP2	59:2A:3652:HOH:O	2.13	0.66
1:2A:2094:C:HO2'	1:2A:2609:A:HO2'	1.40	0.66
1:2A:2147:A:H1'	1:2A:2148:G:OP2	1.96	0.66
1:2A:2156:A:H2'	1:2A:2156:A:N3	2.09	0.66
1:2A:2670:G:O2'	7:2H:175:LYS:HE2	1.95	0.66
2:2B:30:C:H2'	2:2B:31:C:C5'	2.26	0.66
7:2H:3:ARG:HG2	7:2H:6:ARG:HB2	1.78	0.66
25:23:8:LEU:HD13	25:23:23:LEU:CD2	2.26	0.66
30:28:17:THR:HG21	30:28:21:LYS:HB2	1.78	0.66
32:2a:42:G:H2'	32:2a:43:G:C8	2.31	0.66
32:2a:397:C:OP2	35:2d:73:ARG:NH2	2.29	0.66
32:2a:638:G:N1	32:2a:738:C:N3	2.41	0.66
33:2b:106:LYS:O	33:2b:109:SER:OG	2.11	0.66
33:2b:187:LEU:HB3	33:2b:201:ILE:HB	1.78	0.66
35:2d:127:THR:OG1	35:2d:131:ARG:O	2.09	0.66
37:2f:21:LEU:HG	37:2f:25:ILE:CD1	2.24	0.66
39:2h:103:VAL:CG2	39:2h:110:ALA:HB2	2.26	0.66
41:2j:16:LEU:HD13	41:2j:70:ARG:CG	2.24	0.66
42:2k:85:ARG:HB2	42:2k:113:PRO:CD	2.25	0.66
44:2m:107:ALA:O	44:2m:111:LYS:N	2.27	0.66
48:2q:6:LEU:CG	48:2q:23:VAL:HG11	2.25	0.66
50:2s:36:ARG:NH1	50:2s:53:ASN:HB3	2.11	0.66
1:1A:30:C:O2'	1:1A:1283:G:O5'	2.13	0.66
1:1A:660:G:O2'	1:1A:662:G:O2'	2.04	0.66
1:1A:820:A:H2'	1:1A:820:A:N3	2.09	0.66
1:1A:1727:G:H1'	59:1A:4232:HOH:O	1.95	0.66
1:1A:2348:G:OP2	59:1A:4291:HOH:O	2.14	0.66
1:1A:2889:C:O2'	13:1R:90:ARG:NH1	2.28	0.66
5:1F:152:GLU:OE1	5:1F:191:ARG:HD2	1.96	0.66
6:1G:131:TYR:O	6:1G:159:VAL:HG12	1.96	0.66
12:1Q:28:ALA:C	12:1Q:29:PHE:HD1	2.04	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:5:TYR:OH	24:12:30:ARG:NH1	2.25	0.66
26:14:40:HIS:HB3	26:14:43:TYR:CD2	2.23	0.66
27:15:56:LYS:HE3	27:15:58:LEU:O	1.96	0.66
30:18:15:LYS:CB	55:18:104:MPD:H31	2.22	0.66
32:1a:118:G:OP1	32:1a:306:G:N2	2.18	0.66
32:1a:425:U:O2'	35:1d:22:LYS:NZ	2.28	0.66
32:1a:916:A:C2	32:1a:1359:U:H1'	2.30	0.66
32:1a:954:G:P	45:1n:32:SER:H	2.18	0.66
49:1r:70:ILE:HG23	49:1r:79:LEU:CD1	2.26	0.66
50:1s:17:GLU:O	50:1s:21:GLU:HG3	1.96	0.66
1:2A:75:C:OP2	59:2A:3839:HOH:O	2.13	0.66
1:2A:627:C:O2	1:2A:703:U:O2'	2.13	0.66
1:2A:1178:U:O2	1:2A:1181:G:H5"	1.96	0.66
1:2A:1413:G:OP1	29:27:28:ARG:NH2	2.28	0.66
1:2A:1641:A:O2'	1:2A:1642:A:H5'	1.95	0.66
1:2A:1962:C:C2'	1:2A:1963:5MC:H5'	2.26	0.66
1:2A:2375:C:OP1	22:20:55:ARG:NH1	2.29	0.66
1:2A:2884:C:OP1	15:2T:3:ARG:NH1	2.26	0.66
2:2B:115:G:O4'	14:2S:47:THR:HB	1.96	0.66
3:2D:69:ARG:HE	3:2D:130:ALA:HB2	1.61	0.66
8:2I:79:ILE:HG22	8:2I:81:VAL:CG1	2.26	0.66
14:2S:66:ALA:O	14:2S:69:VAL:N	2.28	0.66
32:2a:278:A:N3	32:2a:278:A:H2'	2.10	0.66
32:2a:547:A:H5'	32:2a:548:C:OP1	1.95	0.66
32:2a:1009:C:N4	32:2a:1015:G:O6	2.28	0.66
32:2a:1079:C:O2'	32:2a:1080:C:H5'	1.96	0.66
32:2a:1149:G:N2	32:2a:1152:A:OP2	2.29	0.66
33:2b:226:ARG:O	33:2b:226:ARG:HG3	1.95	0.66
38:2g:89:MET:CE	38:2g:155:ARG:HA	2.25	0.66
44:2m:27:LYS:O	44:2m:31:LYS:N	2.24	0.66
45:2n:29:ARG:HD3	45:2n:40:CYS:HB2	1.77	0.66
51:2t:100:ILE:HG22	51:2t:101:GLY:H	1.61	0.66
1:1A:749:U:H2'	1:1A:750:G:H5'	1.77	0.66
1:1A:2323:U:H5'	6:1G:88:ILE:HD11	1.78	0.66
8:1I:72:LEU:C	8:1I:74:ASN:H	2.04	0.66
11:1P:95:VAL:HG22	11:1P:125:VAL:HA	1.76	0.66
18:1W:19:LEU:O	59:1W:3104:HOH:O	2.14	0.66
22:10:40:GLN:O	59:10:204:HOH:O	2.14	0.66
27:15:20:ARG:HG2	27:15:23:HIS:CE1	2.31	0.66
32:1a:472:A:C2	32:1a:473:C:H1'	2.31	0.66
32:1a:663:C:H2'	32:1a:664:C:C6	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:15:VAL:HG23	33:1b:209:ARG:CG	2.26	0.66
38:1g:111:ARG:CD	38:1g:123:GLU:HG2	2.26	0.66
42:1k:66:LEU:CD2	42:1k:97:ALA:HB1	2.25	0.66
1:2A:79:G:H1	1:2A:102:C:H42	1.44	0.66
1:2A:711:C:O2'	1:2A:712:G:H5'	1.96	0.66
1:2A:847:G:OP2	5:2F:55:GLY:HA2	1.96	0.66
1:2A:1208:G:O2'	1:2A:1209:G:H5'	1.96	0.66
1:2A:1343:C:OP2	59:2A:3844:HOH:O	2.13	0.66
1:2A:1697:G:OP1	13:2R:40:LYS:NZ	2.25	0.66
1:2A:1793:G:OP1	59:2A:3827:HOH:O	2.12	0.66
1:2A:2442:U:N3	1:2A:2445:A:OP2	2.18	0.66
3:2D:108:PRO:HB3	3:2D:143:HIS:CE1	2.30	0.66
6:2G:28:VAL:O	6:2G:31:VAL:HG22	1.96	0.66
32:2a:101:G:H2'	32:2a:102:G:O4'	1.96	0.66
32:2a:134:G:H2'	32:2a:135:A:H8	1.60	0.66
32:2a:402:G:C4'	35:2d:5:ILE:HD11	2.22	0.66
32:2a:715:G:OP1	32:2a:750:A:H1'	1.96	0.66
32:2a:1300:A:O2'	50:2s:37:ARG:HD2	1.95	0.66
33:2b:137:ARG:O	33:2b:141:GLU:HG3	1.96	0.66
34:2c:73:PRO:HB3	34:2c:103:VAL:CG1	2.26	0.66
34:2c:77:ILE:HG13	34:2c:78:GLY:H	1.61	0.66
36:2e:27:ARG:HG3	36:2e:48:ALA:O	1.96	0.66
36:2e:82:VAL:HG21	36:2e:138:ALA:CA	2.25	0.66
38:2g:136:LYS:O	38:2g:139:GLU:HB2	1.96	0.66
44:2m:68:GLY:O	44:2m:72:ALA:N	2.26	0.66
1:1A:1306:C:OP2	59:1A:4277:HOH:O	2.13	0.65
1:1A:1713:G:O2'	1:1A:2012:U:O4	2.15	0.65
4:1E:143:ASN:HD22	4:1E:147:PRO:HD2	1.61	0.65
6:1G:36:LYS:HA	6:1G:99:MET:SD	2.36	0.65
11:1P:1:MET:HE3	11:1P:5:ASP:HB3	1.78	0.65
12:1Q:59:ARG:O	21:1Z:180:VAL:HG23	1.95	0.65
20:1Y:92:ASN:H	20:1Y:93:GLY:HA2	1.59	0.65
21:1Z:5:LEU:HD21	21:1Z:44:PHE:HB2	1.78	0.65
32:1a:159:U:O2'	32:1a:160:C:H5'	1.96	0.65
32:1a:753:G:OP2	32:1a:787:G:O2'	2.12	0.65
32:1a:975:U:C2'	32:1a:976:G:H5"	2.26	0.65
32:1a:1477:A:OP2	59:1a:2051:HOH:O	2.13	0.65
35:1d:159:ARG:O	35:1d:163:GLU:N	2.24	0.65
35:1d:170:VAL:HG12	35:1d:174:LEU:HB2	1.78	0.65
39:1h:63:LEU:HB3	39:1h:65:TYR:CE1	2.31	0.65
40:1i:96:LEU:O	40:1i:100:GLY:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:49:VAL:CG2	45:1n:41:ARG:HB2	2.24	0.65
50:1s:36:ARG:NH2	50:1s:75:ALA:O	2.29	0.65
1:2A:180:C:N3	59:2A:3942:HOH:O	2.29	0.65
1:2A:1756:C:O2'	1:2A:1757:C:H5'	1.95	0.65
1:2A:2132:C:N3	1:2A:2166:C:O2'	2.30	0.65
1:2A:2759:G:P	7:2H:138:LYS:HZ3	2.18	0.65
1:2A:2821:G:H2'	1:2A:2822:A:H8	1.61	0.65
5:2F:176:LEU:HD11	5:2F:180:GLY:C	2.20	0.65
17:2V:21:ARG:HD3	17:2V:91:TYR:CE2	2.31	0.65
21:2Z:7:ALA:C	21:2Z:8:TYR:HD1	2.04	0.65
32:2a:654:G:H2'	32:2a:655:G:O4'	1.96	0.65
32:2a:1307:C:OP1	52:2u:15:ARG:HD2	1.96	0.65
39:2h:48:TYR:HA	39:2h:60:ARG:O	1.96	0.65
40:2i:82:ALA:HA	40:2i:85:LEU:HD12	1.77	0.65
40:2i:89:ASN:HB3	40:2i:92:TYR:CE2	2.30	0.65
44:2m:14:ARG:NE	44:2m:42:ALA:HA	2.09	0.65
1:1A:449:A:OP2	55:1A:3800:MPD:O4	2.13	0.65
1:1A:1826:U:OP2	59:1A:4289:HOH:O	2.13	0.65
1:1A:1888:G:O6	59:1A:4229:HOH:O	2.10	0.65
1:1A:2317:C:H3'	1:1A:2318:G:C8	2.31	0.65
4:1E:167:VAL:HG12	4:1E:170:LEU:CD1	2.26	0.65
5:1F:123:LEU:CD1	5:1F:192:LEU:HD22	2.26	0.65
14:1S:61:ASN:O	14:1S:65:VAL:HG23	1.97	0.65
32:1a:906:G:O2'	32:1a:1511:C:OP1	2.14	0.65
32:1a:1287:G:OP1	52:1u:2:GLY:N	2.29	0.65
33:1b:184:VAL:O	33:1b:198:ASP:HB2	1.97	0.65
34:1c:21:ARG:O	34:1c:58:GLU:HA	1.95	0.65
42:1k:82:VAL:O	42:1k:109:VAL:HG12	1.95	0.65
44:1m:88:ARG:HG2	44:1m:98:VAL:CG1	2.25	0.65
1:2A:185:A:OP1	59:2A:3710:HOH:O	2.15	0.65
1:2A:924:A:C2'	1:2A:925:G:H5'	2.24	0.65
1:2A:1542:U:N3	1:2A:1624:U:O5'	2.28	0.65
1:2A:1652:C:H4'	1:2A:1653:A:O5'	1.96	0.65
1:2A:1973:A:OP1	10:2O:44:LYS:NZ	2.24	0.65
1:2A:2659:C:N4	1:2A:2683:G:O6	2.18	0.65
10:2O:99:PHE:N	10:2O:99:PHE:HD1	1.95	0.65
15:2T:121:ILE:O	15:2T:124:ASP:N	2.30	0.65
17:2V:40:LEU:HB2	17:2V:46:VAL:CG1	2.24	0.65
21:2Z:151:HIS:HA	21:2Z:170:THR:HA	1.77	0.65
24:22:35:LEU:CD1	24:22:53:LEU:HD12	2.26	0.65
32:2a:223:G:O2'	32:2a:224:A:H5'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:905:G:N2	32:2a:1373:U:O2	2.22	0.65
32:2a:1412:C:H42	32:2a:1449:G:H1	1.43	0.65
34:2c:152:ILE:HG22	34:2c:167:TRP:CB	2.26	0.65
47:2p:5:ARG:HB3	47:2p:67:THR:HG23	1.77	0.65
48:2q:43:LEU:HD12	48:2q:68:ARG:HB2	1.77	0.65
51:2t:54:LYS:HA	51:2t:57:ARG:NH2	2.10	0.65
1:1A:732:G:OP2	59:1A:4299:HOH:O	2.14	0.65
1:1A:908:G:OP2	59:1A:4271:HOH:O	2.12	0.65
1:1A:2034:A:H5'	59:1A:4149:HOH:O	1.97	0.65
1:1A:2243:U:O2'	1:1A:2244:U:H5'	1.97	0.65
3:1D:21:PHE:HB3	3:1D:24:ILE:HG13	1.78	0.65
4:1E:38:THR:OG1	4:1E:41:LYS:HB3	1.96	0.65
8:1I:52:ARG:O	8:1I:56:LYS:N	2.29	0.65
9:1N:2:LYS:O	59:1N:305:HOH:O	2.13	0.65
10:1O:16:ALA:HA	10:1O:46:ALA:CB	2.27	0.65
13:1R:63:ARG:HB2	13:1R:80:PHE:HE2	1.60	0.65
17:1V:52:VAL:HG23	17:1V:55:ALA:HB3	1.78	0.65
32:1a:101:G:C2	32:1a:102:G:H1'	2.32	0.65
32:1a:132:C:O2'	32:1a:133:G:H5'	1.96	0.65
32:1a:316:C:H2'	32:1a:317:A:C8	2.32	0.65
32:1a:982:G:C2'	32:1a:983:A:H4'	2.26	0.65
32:1a:1072:G:C2'	32:1a:1073:U:H5'	2.26	0.65
37:1f:45:LEU:HD23	37:1f:57:GLN:OE1	1.96	0.65
37:1f:89:MET:HE1	49:1r:72:ARG:CG	2.26	0.65
52:1u:9:ARG:HG2	52:1u:13:ILE:CD1	2.26	0.65
1:2A:335:G:H5'	1:2A:354:A:O2'	1.96	0.65
1:2A:1234:G:N7	59:2A:3758:HOH:O	2.29	0.65
1:2A:1595:C:O2'	1:2A:1596:C:H5'	1.96	0.65
2:2B:95:C:H2'	2:2B:96:U:C6	2.31	0.65
13:2R:38:VAL:HG12	13:2R:42:LYS:HE2	1.77	0.65
14:2S:25:ARG:HD2	14:2S:42:ASP:OD2	1.95	0.65
17:2V:57:VAL:HG12	17:2V:99:ILE:HG22	1.78	0.65
19:2X:39:ILE:HD13	19:2X:79:ALA:HB2	1.78	0.65
32:2a:37:C:H5"	43:2l:123:LYS:HD3	1.77	0.65
32:2a:292:U:O2'	32:2a:540:C:O2	2.14	0.65
32:2a:569:G:OP1	48:2q:37:LYS:HD2	1.97	0.65
32:2a:1131:U:H2'	32:2a:1132:C:O4'	1.97	0.65
35:2d:39:PRO:O	35:2d:44:GLY:HA3	1.97	0.65
41:2j:27:ALA:CB	41:2j:74:ILE:HD12	2.26	0.65
1:1A:136:G:O6	59:1A:4287:HOH:O	2.13	0.65
1:1A:1760:G:H2'	1:1A:1761:G:H8	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1835:U:O2	3:1D:50:THR:HB	1.96	0.65
1:1A:2117:U:O2'	1:1A:2118:C:H5'	1.97	0.65
1:1A:2234:G:H2'	1:1A:2235:G:H5'	1.79	0.65
1:1A:2544:A:H2'	1:1A:2545:A:O4'	1.97	0.65
3:1D:76:PRO:HB2	3:1D:116:GLN:HE21	1.62	0.65
3:1D:212:SER:O	3:1D:217:ARG:HG2	1.97	0.65
15:1T:13:ARG:C	15:1T:14:TYR:HD1	2.05	0.65
15:1T:49:VAL:HG12	15:1T:63:VAL:HG22	1.78	0.65
30:18:23:VAL:CG1	30:18:47:LYS:HB3	2.26	0.65
32:1a:653:U:O2'	32:1a:654:G:H5'	1.95	0.65
38:1g:78:ARG:HD2	38:1g:156:TRP:HZ3	1.61	0.65
1:2A:168:G:OP1	29:27:32:LYS:HG3	1.96	0.65
1:2A:430:C:OP2	59:2A:3849:HOH:O	2.14	0.65
1:2A:1098:C:H4'	1:2A:1099:A:OP1	1.96	0.65
1:2A:1273:G:H2'	1:2A:1274:G:C5'	2.25	0.65
1:2A:1637:C:O2'	1:2A:1638:G:H5'	1.96	0.65
1:2A:2160:C:C2'	1:2A:2161:C:H5'	2.25	0.65
59:2A:3626:HOH:O	4:2E:127:ASP:OD2	2.14	0.65
2:2B:40:U:N3	2:2B:44:G:OP2	2.29	0.65
21:2Z:99:TYR:HA	21:2Z:124:ILE:O	1.96	0.65
32:2a:1225:C:H2'	32:2a:1226:C:H6	1.56	0.65
32:2a:1250:A:N3	32:2a:1308:C:O2'	2.29	0.65
33:2b:80:ILE:HG21	33:2b:211:ILE:HG21	1.78	0.65
40:2i:82:ALA:HA	40:2i:85:LEU:CD1	2.27	0.65
1:1A:308:C:N4	1:1A:379:G:O6	2.20	0.65
1:1A:1613:A:O2'	59:1A:4055:HOH:O	2.02	0.65
1:1A:2652:G:H5'	9:1N:76:SER:HB3	1.79	0.65
1:1A:2813:C:H2'	1:1A:2814:C:H6	1.62	0.65
6:1G:101:ILE:HG22	6:1G:105:LYS:HE2	1.79	0.65
7:1H:91:GLY:HA3	7:1H:94:TYR:CD2	2.31	0.65
9:1N:108:PRO:O	59:1N:307:HOH:O	2.14	0.65
10:1O:60:ALA:HB2	10:1O:86:ILE:HA	1.77	0.65
12:1Q:12:GLN:O	59:1Q:306:HOH:O	2.14	0.65
26:14:65:ASP:HA	26:14:67:TYR:CE1	2.32	0.65
32:1a:1306:A:OP1	32:1a:1345:C:H1'	1.97	0.65
32:1a:1338:G:O2'	32:1a:1339:A:H5'	1.95	0.65
32:1a:1434:G:H1'	51:1t:39:LYS:HE2	1.77	0.65
40:1i:46:ALA:CA	40:1i:78:LYS:HB2	2.26	0.65
41:1j:31:GLY:O	41:1j:81:THR:HG21	1.97	0.65
1:2A:1070:G:C4	1:2A:1179:C:H1'	2.32	0.65
1:2A:1164:C:O2'	1:2A:1165:G:H5'	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2018:G:O2'	1:2A:2019:G:H5'	1.97	0.65
1:2A:2331:A:H2'	1:2A:2331:A:N3	2.11	0.65
4:2E:127:ASP:OD2	59:2E:406:HOH:O	2.13	0.65
32:2a:182:C:O2'	51:2t:89:ARG:HD3	1.96	0.65
32:2a:410:A:OP2	32:2a:424:G:N2	2.28	0.65
32:2a:489:G:OP1	32:2a:519:A:H5'	1.95	0.65
32:2a:941:G:H1	32:2a:950:C:N4	1.95	0.65
34:2c:150:LYS:CD	34:2c:169:ALA:HB2	2.26	0.65
40:2i:50:LEU:CB	40:2i:56:LEU:HG	2.27	0.65
1:1A:141:G:H2'	1:1A:142:C:C6	2.31	0.65
1:1A:172:C:OP1	59:1A:4285:HOH:O	2.13	0.65
1:1A:359:C:H4'	20:1Y:6:HIS:CD2	2.32	0.65
1:1A:448:A:H3'	59:1A:3968:HOH:O	1.97	0.65
1:1A:468:A:HO2'	1:1A:1244:C:HO2'	1.42	0.65
1:1A:1248:A:O2'	59:1A:4298:HOH:O	2.14	0.65
1:1A:1855:A:O2'	59:1A:4193:HOH:O	2.14	0.65
1:1A:2785:C:OP1	4:1E:166:THR:OG1	2.11	0.65
7:1H:3:ARG:NH2	7:1H:65:HIS:HB3	2.12	0.65
9:1N:11:PRO:HA	59:1N:322:HOH:O	1.96	0.65
12:1Q:19:GLY:O	59:1Q:305:HOH:O	2.13	0.65
32:1a:559:G:OP1	59:1a:2054:HOH:O	2.14	0.65
32:1a:988:G:O2'	32:1a:989:G:H5'	1.97	0.65
32:1a:1089:G:H2'	32:1a:1090:C:C6	2.31	0.65
32:1a:1365:C:H2'	32:1a:1366:C:C6	2.32	0.65
49:1r:29:PHE:O	49:1r:29:PHE:HD1	1.79	0.65
50:1s:19:VAL:HG21	50:1s:44:MET:HE2	1.78	0.65
1:2A:233:G:H4'	11:2P:70:GLN:O	1.96	0.65
1:2A:1516:G:N7	59:2A:3947:HOH:O	2.29	0.65
21:2Z:4:ARG:NH1	21:2Z:58:VAL:HG11	2.12	0.65
21:2Z:17:ALA:HA	21:2Z:20:ARG:NH2	2.11	0.65
25:23:23:LEU:HD12	25:23:50:VAL:HG11	1.78	0.65
32:2a:42:G:H2'	32:2a:43:G:H8	1.62	0.65
32:2a:858:C:H2'	32:2a:859:G:H8	1.60	0.65
32:2a:1134:A:O2'	32:2a:1135:A:O4'	2.14	0.65
36:2e:106:PRO:HA	36:2e:109:ILE:HB	1.77	0.65
42:2k:50:TYR:HB3	42:2k:54:ARG:HG3	1.79	0.65
42:2k:109:VAL:HA	49:2r:85:LEU:O	1.96	0.65
50:2s:40:ILE:HG22	50:2s:67:VAL:HG13	1.77	0.65
52:2u:10:ARG:HA	52:2u:13:ILE:HD12	1.77	0.65
1:1A:841:C:O2'	1:1A:842:C:H5'	1.97	0.65
1:1A:1135:U:H2'	1:1A:1136:G:O4'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1674:U:O4	59:1A:4264:HOH:O	2.12	0.65
3:1D:253:GLN:HB3	59:1D:412:HOH:O	1.96	0.65
4:1E:113:PHE:CE1	4:1E:158:GLY:HA2	2.32	0.65
10:1O:88:ASN:OD1	10:1O:92:GLU:N	2.28	0.65
11:1P:1:MET:HE3	11:1P:5:ASP:CB	2.27	0.65
11:1P:127:ALA:HB3	11:1P:130:PHE:CE1	2.30	0.65
13:1R:8:ARG:NH1	13:1R:39:PRO:HB3	2.12	0.65
16:1U:8:VAL:HG23	16:1U:11:ARG:NH2	2.12	0.65
21:1Z:115:GLY:CA	21:1Z:146:ILE:HD11	2.26	0.65
32:1a:506:C:H2'	32:1a:507:A:H5'	1.78	0.65
32:1a:527:C:O2'	32:1a:528:G:H5'	1.96	0.65
32:1a:753:G:N2	32:1a:795:C:H1'	2.11	0.65
32:1a:1387:5MC:HN41	32:1a:1475:G:H1	1.45	0.65
33:1b:120:ALA:O	33:1b:123:ALA:HB3	1.97	0.65
38:1g:120:ILE:O	38:1g:124:LEU:HG	1.97	0.65
42:1k:73:MET:HG2	42:1k:77:MET:O	1.97	0.65
42:1k:84:VAL:HG21	42:1k:95:ILE:HD11	1.79	0.65
44:1m:37:THR:HG21	44:1m:56:LEU:HA	1.77	0.65
1:2A:247:G:HO2'	1:2A:645:A:HO2'	1.33	0.65
1:2A:885:U:OP1	59:2A:3851:HOH:O	2.14	0.65
1:2A:1225:C:O2'	1:2A:1226:A:H5'	1.97	0.65
1:2A:1317:A:OP1	59:2A:3854:HOH:O	2.14	0.65
1:2A:2796:C:O3'	4:2E:41:LYS:HE2	1.96	0.65
1:2A:2813:C:O2'	1:2A:2814:C:H5'	1.96	0.65
1:2A:2878:G:H2'	1:2A:2879:C:H6	1.61	0.65
3:2D:85:ASP:OD2	3:2D:88:ARG:NH1	2.28	0.65
9:2N:70:LYS:HD3	9:2N:87:LEU:HD12	1.78	0.65
12:2Q:33:GLY:N	12:2Q:132:VAL:O	2.29	0.65
13:2R:55:ALA:HB2	13:2R:79:LEU:CD2	2.27	0.65
14:2S:83:LYS:HB3	14:2S:111:GLU:CD	2.21	0.65
32:2a:778:A:H4'	32:2a:1499:G:O2'	1.96	0.65
35:2d:64:LEU:HB2	35:2d:198:VAL:HG21	1.78	0.65
42:2k:59:TYR:HA	42:2k:62:GLN:HB3	1.77	0.65
1:1A:522:G:O2'	1:1A:523:U:H5'	1.97	0.65
1:1A:720:G:O2'	5:1F:67:GLN:NE2	2.26	0.65
1:1A:1095:A:C2'	1:1A:1096:G:H5'	2.27	0.65
1:1A:1128:U:O2	1:1A:1131:A:N6	2.30	0.65
1:1A:1472:A:O3'	59:1A:4288:HOH:O	2.13	0.65
1:1A:2020:C:O2	1:1A:2698:U:O2'	2.15	0.65
1:1A:2084:C:OP2	59:1A:4303:HOH:O	2.14	0.65
1:1A:2222:C:OP1	23:11:48:LYS:NZ	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2691:C:C1’	4:1E:187:ALA:HB1	2.26	0.65
1:1A:2848:G:H5’	13:1R:46:GLY:CA	2.27	0.65
6:1G:59:GLU:O	6:1G:63:ILE:N	2.29	0.65
18:1W:59:VAL:HA	18:1W:64:MET:O	1.97	0.65
32:1a:406:G:N1	32:1a:427:A:OP2	2.29	0.65
32:1a:649:A:H2’	32:1a:716:C:O2	1.97	0.65
32:1a:1258:G:O2’	32:1a:1259:C:H5’	1.96	0.65
32:1a:1302:C:H2’	32:1a:1303:C:C6	2.32	0.65
32:1a:1324:C:O2’	32:1a:1325:G:H5’	1.95	0.65
34:1c:5:ILE:HD13	41:1j:51:ARG:HH12	1.61	0.65
38:1g:79:ARG:CA	38:1g:84:ASN:HA	2.23	0.65
42:1k:18:ARG:O	42:1k:32:ILE:HG23	1.96	0.65
48:1q:9:VAL:HG22	48:1q:56:VAL:HG22	1.77	0.65
1:2A:908:G:OP2	59:2A:3848:HOH:O	2.14	0.65
1:2A:1076:G:O2’	31:29:7:VAL:N	2.30	0.65
1:2A:1722:A:OP2	59:2A:3850:HOH:O	2.14	0.65
1:2A:1829:G:OP1	3:2D:260:ARG:NE	2.30	0.65
1:2A:1915:C:O2’	1:2A:1916:C:H5’	1.97	0.65
1:2A:1933:A:H5”	1:2A:1934:A:OP2	1.97	0.65
1:2A:2086:C:H1’	1:2A:2460:U:N3	2.11	0.65
1:2A:2821:G:H2’	1:2A:2822:A:C8	2.31	0.65
59:2A:3868:HOH:O	18:2W:41:LYS:NZ	2.28	0.65
6:2G:53:LEU:O	6:2G:56:ALA:N	2.30	0.65
6:2G:163:ALA:O	59:2G:8102:HOH:O	2.15	0.65
13:2R:32:GLY:O	13:2R:115:GLU:HA	1.96	0.65
32:2a:901:A:H2’	32:2a:902:C:O4’	1.96	0.65
32:2a:1318:C:H4’	32:2a:1319:G:C4	2.31	0.65
1:1A:1218:A:O4’	1:1A:1219:U:H5’	1.97	0.65
1:1A:1463:G:N7	59:1A:4467:HOH:O	2.30	0.65
1:1A:1495:A:H2’	1:1A:1496:G:O4’	1.97	0.65
1:1A:1709:C:O2’	1:1A:1710:A:O5’	2.15	0.65
1:1A:2377:A:H2’	1:1A:2378:G:O4’	1.97	0.65
3:1D:69:ARG:HH21	3:1D:129:ASN:HA	1.62	0.65
4:1E:9:VAL:HG12	15:1T:1:MET:HE1	1.78	0.65
5:1F:53:THR:HG22	5:1F:56:GLU:HG3	1.79	0.65
6:1G:39:ILE:HB	6:1G:92:VAL:CG1	2.27	0.65
8:1I:1:MET:O	8:1I:20:ASP:HA	1.97	0.65
11:1P:82:GLY:HA2	11:1P:113:LYS:O	1.97	0.65
17:1V:30:GLY:N	17:1V:61:VAL:HG13	2.12	0.65
23:11:5:CYS:SG	23:11:62:VAL:HG23	2.37	0.65
32:1a:340:A:OP2	32:1a:341:C:N4	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:762:G:H2'	32:1a:763:C:O4'	1.97	0.65
32:1a:1355:U:OP1	40:1i:71:SER:N	2.30	0.65
32:1a:1387:5MC:O2	32:1a:1497:MA6:O2'	2.10	0.65
35:1d:178:VAL:HG12	35:1d:179:GLU:N	2.11	0.65
36:1e:105:VAL:HG11	36:1e:131:ILE:HG23	1.78	0.65
37:1f:23:LYS:O	37:1f:27:GLN:N	2.26	0.65
38:1g:78:ARG:HG2	38:1g:80:VAL:HG23	1.77	0.65
40:1i:99:LEU:HB3	40:1i:101:PHE:CE2	2.32	0.65
41:1j:5:ARG:HA	41:1j:73:ASP:OD1	1.97	0.65
51:1t:78:ALA:O	51:1t:82:SER:N	2.27	0.65
1:2A:614:G:O2'	30:28:64:TYR:OH	2.09	0.65
1:2A:1121:C:OP1	12:2Q:60:ARG:HB2	1.96	0.65
1:2A:1697:G:C5'	13:2R:39:PRO:HG2	2.26	0.65
1:2A:2529:A:OP2	59:2A:3841:HOH:O	2.13	0.65
1:2A:2573:U:H4'	10:2O:25:LEU:HD21	1.77	0.65
4:2E:36:ARG:NH1	4:2E:85:ASN:OD1	2.30	0.65
8:2I:1:MET:CE	8:2I:38:LEU:HD11	2.27	0.65
21:2Z:153:SER:CB	21:2Z:167:PRO:HB3	2.27	0.65
29:27:16:HIS:CB	29:27:44:PRO:HG2	2.26	0.65
32:2a:13:U:H4'	32:2a:510:C:O2'	1.96	0.65
32:2a:30:G:O2'	32:2a:31:U:H5'	1.97	0.65
32:2a:206:G:H2'	32:2a:207:G:H8	1.60	0.65
32:2a:934:U:O2'	32:2a:935:U:H5'	1.97	0.65
32:2a:1470:A:H2'	32:2a:1471:A:O4'	1.96	0.65
33:2b:63:MET:HG2	33:2b:225:ALA:HB1	1.78	0.65
33:2b:163:PHE:CE1	33:2b:201:ILE:HD13	2.31	0.65
40:2i:78:LYS:HA	40:2i:81:ILE:CG2	2.26	0.65
42:2k:50:TYR:HB3	42:2k:54:ARG:CG	2.26	0.65
1:1A:271:U:H5'	8:1I:50:ARG:NH1	2.12	0.65
1:1A:559:C:O2'	1:1A:560:A:H5'	1.96	0.65
1:1A:1116:G:H1'	1:1A:1134:G:C8	2.31	0.65
1:1A:1269:C:O2	59:1A:4282:HOH:O	2.13	0.65
1:1A:1693:G:H3'	1:1A:1693:G:OP2	1.97	0.65
1:1A:1725:U:H2'	1:1A:1726:U:H5'	1.77	0.65
1:1A:1744:A:OP1	59:1A:4305:HOH:O	2.15	0.65
1:1A:1751:G:O2'	1:1A:1752:U:H5'	1.97	0.65
59:1A:4123:HOH:O	11:1P:33:ARG:O	2.13	0.65
3:1D:155:LEU:HD23	3:1D:177:LEU:CD2	2.26	0.65
11:1P:101:VAL:HG22	11:1P:106:LEU:O	1.97	0.65
32:1a:57:U:H2'	32:1a:58:G:C8	2.31	0.65
32:1a:372:G:H5"	47:1p:5:ARG:HD2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:887:A:N3	32:1a:1396:A:O2'	2.29	0.65
32:1a:1144:C:O2'	32:1a:1145:C:H5'	1.97	0.65
34:1c:12:LEU:O	34:1c:14:ILE:HD12	1.97	0.65
38:1g:58:PRO:HA	38:1g:61:VAL:HG23	1.78	0.65
46:1o:82:ILE:O	46:1o:86:GLY:N	2.30	0.65
1:2A:869:G:O2'	1:2A:870:A:H5'	1.96	0.65
1:2A:1261:C:C2'	1:2A:1262:C:H5'	2.27	0.65
1:2A:1596:C:O2'	1:2A:1597:C:H5'	1.97	0.65
1:2A:1871:U:C2'	1:2A:1872:G:H5'	2.27	0.65
59:2A:3814:HOH:O	27:25:20:ARG:NH2	2.19	0.65
5:2F:51:THR:HG21	5:2F:92:PRO:HD2	1.77	0.65
12:2Q:8:LYS:CG	21:2Z:197:ILE:HD12	2.26	0.65
19:2X:2:LYS:NZ	19:2X:38:GLU:OE2	2.27	0.65
20:2Y:44:ILE:HA	20:2Y:63:LYS:O	1.97	0.65
32:2a:905:G:H2'	32:2a:906:G:C8	2.29	0.65
33:2b:91:PRO:CB	33:2b:155:LEU:HB2	2.26	0.65
1:1A:249:G:O2'	1:1A:632:G:O2'	1.92	0.64
1:1A:366:C:O2'	1:1A:367:G:H5'	1.97	0.64
1:1A:737:C:O2	59:1A:4280:HOH:O	2.13	0.64
1:1A:1475:C:H2'	1:1A:1476:U:H6	1.62	0.64
1:1A:1704:C:OP1	59:1E:402:HOH:O	2.14	0.64
1:1A:2151:U:O2'	1:1A:2154:G:O2'	2.04	0.64
2:1B:48:A:OP2	14:1S:30:ARG:NH2	2.29	0.64
3:1D:155:LEU:HD23	3:1D:177:LEU:HD22	1.79	0.64
4:1E:179:GLU:HB2	4:1E:181:LEU:HD13	1.78	0.64
10:1O:64:ARG:HG2	10:1O:79:PHE:CE2	2.32	0.64
13:1R:44:LEU:HD13	13:1R:44:LEU:O	1.96	0.64
16:1U:79:PHE:CE1	16:1U:83:LEU:HD13	2.32	0.64
27:15:34:PRO:HG2	27:15:35:GLU:OE1	1.97	0.64
32:1a:317:A:H4'	32:1a:1419:U:C4'	2.27	0.64
32:1a:422:G:OP1	35:1d:38:TYR:OH	2.12	0.64
32:1a:560:G:OP1	59:1a:2054:HOH:O	2.15	0.64
32:1a:802:G:N2	32:1a:851:A:OP1	2.28	0.64
32:1a:962:C:H42	32:1a:1203:G:H1	0.71	0.64
32:1a:1041:G:OP1	34:1c:199:LYS:HE3	1.97	0.64
32:1a:1096:C:O2'	32:1a:1097:C:H5'	1.97	0.64
32:1a:1300:A:H5"	32:1a:1301:A:OP2	1.97	0.64
36:1e:42:GLY:HA3	36:1e:62:ALA:O	1.97	0.64
44:1m:2:ALA:N	44:1m:8:GLU:OE1	2.30	0.64
1:2A:1035:A:C6	1:2A:1230:G:H1'	2.31	0.64
1:2A:1254:A:OP1	1:2A:1255:U:O2'	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1922:A:H2'	1:2A:1923:C:H5'	1.79	0.64
1:2A:2125:G:O6	1:2A:2206:C:N3	2.30	0.64
1:2A:2368:U:OP1	22:20:20:ARG:NE	2.29	0.64
12:2Q:91:GLU:O	59:2Q:8102:HOH:O	2.13	0.64
14:2S:23:ARG:HD2	14:2S:86:ALA:HB2	1.79	0.64
18:2W:23:LEU:HD11	27:25:27:PRO:CB	2.28	0.64
19:2X:5:TYR:CE2	24:22:30:ARG:HB2	2.32	0.64
32:2a:389:A:H2'	32:2a:390:G:H8	1.62	0.64
32:2a:703:C:H2'	49:2r:50:ILE:HB	1.78	0.64
32:2a:910:C:H4'	38:2g:4:ARG:NH2	2.12	0.64
37:2f:49:ALA:N	49:2r:77:GLY:O	2.25	0.64
38:2g:111:ARG:CG	38:2g:112:PRO:HD2	2.27	0.64
42:2k:103:LEU:O	42:2k:105:VAL:HG13	1.96	0.64
48:2q:9:VAL:HG22	48:2q:56:VAL:HG22	1.78	0.64
1:1A:924:A:H2'	1:1A:925:G:C5'	2.21	0.64
1:1A:1710:A:OP1	59:1A:4311:HOH:O	2.15	0.64
1:1A:2150:C:N3	1:1A:2180:G:C6	2.65	0.64
1:1A:2536:G:O2'	1:1A:2754:C:O2'	2.15	0.64
2:1B:30:C:H2'	2:1B:31:C:C5'	2.20	0.64
4:1E:70:ALA:O	4:1E:72:VAL:HG23	1.98	0.64
5:1F:7:TYR:O	5:1F:21:ALA:HA	1.97	0.64
32:1a:273:C:OP2	48:1q:41:LYS:NZ	2.29	0.64
32:1a:702:G:H5'	42:1k:117:ASN:HB2	1.78	0.64
32:1a:1171:C:H4'	34:1c:10:PHE:CE1	2.33	0.64
32:1a:1242:C:H4'	32:1a:1266:C:H5'	1.79	0.64
37:1f:5:GLU:OE1	49:1r:34:TYR:OH	2.08	0.64
52:1u:9:ARG:HG2	52:1u:13:ILE:HD11	1.80	0.64
1:2A:6:G:H2'	1:2A:7:A:H8	1.63	0.64
1:2A:247:G:H2'	1:2A:248:G:C8	2.30	0.64
1:2A:340:G:H2'	1:2A:341:C:O4'	1.97	0.64
1:2A:851:G:OP2	11:2P:41:ARG:HG2	1.97	0.64
1:2A:2013:G:H1'	1:2A:2014:U:OP2	1.98	0.64
1:2A:2760:A:N3	7:2H:63:SER:OG	2.23	0.64
9:2N:103:VAL:HG12	9:2N:107:LEU:HG	1.79	0.64
15:2T:73:GLU:OE2	15:2T:103:ARG:NE	2.30	0.64
16:2U:46:ALA:O	16:2U:50:ARG:N	2.18	0.64
19:2X:27:THR:C	19:2X:28:PHE:HD1	2.05	0.64
32:2a:323:A:O2'	32:2a:324:C:H4'	1.97	0.64
32:2a:452:C:C2'	32:2a:453:C:H5'	2.26	0.64
32:2a:720:C:H2'	32:2a:721:A:C8	2.32	0.64
32:2a:789:C:O2'	32:2a:790:C:H5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1154:C:H2'	32:2a:1155:G:C8	2.29	0.64
32:2a:1288:A:H2'	44:2m:109:THR:HG21	1.79	0.64
40:2i:65:VAL:HG21	40:2i:73:GLN:HB3	1.79	0.64
41:2j:46:ARG:HA	41:2j:64:GLU:HA	1.78	0.64
50:2s:27:GLU:N	50:2s:27:GLU:OE1	2.31	0.64
1:1A:516:A:N3	59:1A:4460:HOH:O	2.29	0.64
1:1A:554:G:H4'	1:1A:555:C:OP1	1.97	0.64
1:1A:589:A:OP1	59:1A:4307:HOH:O	2.15	0.64
1:1A:650:U:O4	11:1P:81:GLN:NE2	2.26	0.64
1:1A:1895:G:OP1	59:1A:4292:HOH:O	2.14	0.64
1:1A:1958:A:N6	59:1A:4473:HOH:O	2.31	0.64
1:1A:2508:A:O2'	59:1A:4297:HOH:O	2.14	0.64
1:1A:2693:U:H5'	4:1E:11:MET:O	1.96	0.64
1:1A:2856:U:H2'	1:1A:2857:G:H5'	1.78	0.64
6:1G:33:ARG:N	6:1G:162:THR:OG1	2.30	0.64
6:1G:122:PRO:CG	6:1G:180:PHE:HB3	2.23	0.64
16:1U:79:PHE:HD1	16:1U:83:LEU:HD13	1.63	0.64
17:1V:21:ARG:NH1	17:1V:91:TYR:HE2	1.95	0.64
17:1V:81:TYR:HE1	17:1V:83:ARG:CG	2.09	0.64
21:1Z:3:TYR:HE2	21:1Z:50:GLN:CB	2.10	0.64
28:16:20:ASN:C	28:16:21:TYR:HD1	2.05	0.64
29:17:12:ARG:NH2	29:17:44:PRO:HB3	2.12	0.64
32:1a:491:C:OP2	32:1a:492:C:O2'	2.07	0.64
32:1a:1073:U:O2'	32:1a:1074:U:H5'	1.97	0.64
32:1a:1091:G:OP1	34:1c:175:LEU:HB2	1.97	0.64
32:1a:1434:G:H4'	32:1a:1435:G:OP2	1.98	0.64
34:1c:124:ILE:HD12	34:1c:196:LEU:HD12	1.79	0.64
40:1i:106:ALA:O	40:1i:108:VAL:HG23	1.97	0.64
1:2A:468:A:H1'	1:2A:1245:C:O4'	1.97	0.64
1:2A:705:C:O2'	1:2A:706:G:H5'	1.98	0.64
1:2A:935:C:O2'	1:2A:936:A:O5'	2.15	0.64
1:2A:1147:C:H2'	1:2A:1148:A:H8	1.61	0.64
1:2A:1789:A:H4'	1:2A:2727:C:O4'	1.97	0.64
1:2A:2649:G:OP2	4:2E:82:ARG:NH1	2.26	0.64
1:2A:2651:G:H1	1:2A:2786:C:H42	1.45	0.64
5:2F:176:LEU:HD13	5:2F:177:ALA:O	1.98	0.64
6:2G:38:VAL:CG1	6:2G:91:ARG:HD3	2.27	0.64
6:2G:142:PRO:HB2	26:24:31:ILE:CG2	2.27	0.64
9:2N:47:ALA:HB2	9:2N:112:LEU:HD11	1.79	0.64
9:2N:116:LEU:O	9:2N:119:ARG:N	2.20	0.64
12:2Q:1:MET:HE1	12:2Q:45:GLN:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:126:VAL:HG11	21:2Z:161:VAL:CG1	2.25	0.64
32:2a:739:G:OP2	46:2o:65:ARG:HD2	1.97	0.64
32:2a:844:C:O2'	32:2a:897:A:OP1	2.12	0.64
32:2a:986:C:O2'	32:2a:987:C:H5'	1.97	0.64
32:2a:1309:C:H2'	32:2a:1310:C:C6	2.32	0.64
35:2d:99:SER:HB3	35:2d:139:ARG:HG3	1.79	0.64
41:2j:38:ILE:HG12	41:2j:71:LEU:O	1.96	0.64
1:1A:63:C:OP2	59:1A:4300:HOH:O	2.14	0.64
1:1A:468:A:N7	5:1F:45:ARG:HG2	2.12	0.64
1:1A:1218:A:C4'	1:1A:1219:U:H5'	2.27	0.64
1:1A:2848:G:C5'	13:1R:46:GLY:HA2	2.26	0.64
7:1H:23:ARG:HD2	7:1H:34:GLU:OE2	1.97	0.64
14:1S:92:TYR:HB3	14:1S:98:VAL:HG21	1.79	0.64
20:1Y:90:LEU:HD11	20:1Y:96:ILE:HD13	1.79	0.64
32:1a:582:U:H4'	39:1h:94:TYR:CD2	2.33	0.64
32:1a:651:G:H4'	46:1o:51:HIS:ND1	2.12	0.64
32:1a:657:G:H2'	32:1a:658:G:C8	2.31	0.64
32:1a:1298:G:H5"	45:1n:17:LYS:NZ	2.12	0.64
33:1b:103:THR:HG23	33:1b:176:GLU:HB3	1.79	0.64
35:1d:12:CYS:SG	35:1d:19:LEU:HB2	2.38	0.64
1:2A:1697:G:H4'	13:2R:39:PRO:HG2	1.80	0.64
1:2A:2331:A:O2'	1:2A:2332:G:OP2	2.14	0.64
3:2D:241:PRO:O	59:2D:403:HOH:O	2.14	0.64
4:2E:119:ARG:NH1	4:2E:156:MET:O	2.31	0.64
5:2F:129:PHE:O	5:2F:132:VAL:HG22	1.98	0.64
16:2U:17:ILE:HG23	16:2U:39:LEU:HD12	1.80	0.64
26:24:35:VAL:HA	26:24:39:CYS:SG	2.37	0.64
32:2a:492:C:H4'	32:2a:493:A:O5'	1.95	0.64
32:2a:1241:C:C4	32:2a:1242:C:H1'	2.33	0.64
32:2a:1287:G:H22	32:2a:1313:G:H1'	1.62	0.64
32:2a:1356:G:OP2	40:2i:42:ARG:NH2	2.31	0.64
37:2f:9:VAL:HB	37:2f:87:ARG:HB2	1.79	0.64
43:2l:53:ARG:HD2	43:2l:93:LEU:CD1	2.26	0.64
48:2q:61:GLU:HA	48:2q:71:PHE:CD1	2.33	0.64
1:1A:213:A:O2'	1:1A:245:A:H4'	1.98	0.64
1:1A:280:G:O2'	1:1A:281:G:H5'	1.97	0.64
1:1A:301:A:H2'	1:1A:302:C:C6	2.31	0.64
1:1A:342:C:H2'	1:1A:343:A:O4'	1.97	0.64
1:1A:1820:C:H5"	1:1A:1821:A:OP1	1.97	0.64
7:1H:77:LYS:HE2	7:1H:81:GLU:OE1	1.97	0.64
8:1I:129:THR:HG22	8:1I:139:GLN:OE1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:42:TRP:HA	9:1N:48:MET:CE	2.27	0.64
12:1Q:16:ARG:HD3	12:1Q:18:LYS:HD3	1.79	0.64
13:1R:71:GLN:OE1	59:1R:308:HOH:O	2.14	0.64
32:1a:41:C:O2'	32:1a:42:G:H5'	1.97	0.64
32:1a:262:G:O3'	48:1q:67:LYS:HB2	1.97	0.64
32:1a:408:A:N6	35:1d:35:ARG:HG2	2.13	0.64
32:1a:670:U:O4'	42:1k:42:TRP:NE1	2.30	0.64
32:1a:982:G:H2'	32:1a:983:A:C4'	2.28	0.64
33:1b:178:ARG:HH22	39:1h:68:ARG:HH22	1.44	0.64
43:1l:26:ALA:HB3	43:1l:98:TYR:CE2	2.32	0.64
1:2A:121:G:OP1	1:2A:1421:C:O2'	2.14	0.64
1:2A:176:G:H2'	1:2A:177:G:H5'	1.79	0.64
1:2A:1038:G:OP1	16:2U:50:ARG:NH2	2.23	0.64
1:2A:1269:C:O2'	17:2V:86:GLY:N	2.28	0.64
1:2A:1847:G:OP1	3:2D:88:ARG:NH2	2.30	0.64
3:2D:132:PRO:HG3	3:2D:190:TYR:CE1	2.32	0.64
4:2E:113:PHE:HB2	4:2E:159:HIS:HD2	1.59	0.64
6:2G:41:GLN:HG2	6:2G:43:LEU:HD11	1.78	0.64
10:2O:14:THR:O	10:2O:52:VAL:HG22	1.97	0.64
14:2S:27:SER:OG	59:2S:201:HOH:O	2.14	0.64
21:2Z:8:TYR:HA	21:2Z:62:PRO:HD3	1.80	0.64
29:27:6:GLN:O	59:27:202:HOH:O	2.13	0.64
32:2a:1498:G:H2'	32:2a:1499:G:H8	1.61	0.64
34:2c:181:ASN:HB3	34:2c:205:GLY:H	1.63	0.64
36:2e:96:PRO:HA	36:2e:117:ASP:OD2	1.97	0.64
37:2f:42:GLU:OE2	37:2f:59:TYR:OH	2.12	0.64
38:2g:74:GLU:HG2	38:2g:91:VAL:HG22	1.78	0.64
40:2i:50:LEU:HB2	40:2i:56:LEU:HG	1.79	0.64
48:2q:52:LYS:N	48:2q:55:ASP:OD2	2.29	0.64
1:1A:289:G:H2'	1:1A:290:G:H8	1.62	0.64
1:1A:1391:G:O2'	1:1A:1392:G:H5'	1.97	0.64
1:1A:1827:C:H3'	3:1D:274:ARG:HH22	1.62	0.64
6:1G:131:TYR:HB3	6:1G:159:VAL:CG1	2.27	0.64
7:1H:41:MET:HE1	7:1H:61:HIS:O	1.97	0.64
12:1Q:125:LEU:HD12	12:1Q:129:THR:HG21	1.78	0.64
22:10:10:THR:HG22	22:10:12:ASN:H	1.63	0.64
32:1a:340:A:H4'	32:1a:341:C:OP2	1.98	0.64
32:1a:440:G:O2'	32:1a:441:G:H5'	1.98	0.64
32:1a:766:A:O3'	32:1a:1493:C:H4'	1.97	0.64
32:1a:948:C:H4'	32:1a:950:C:C5	2.33	0.64
32:1a:1091:G:H2'	32:1a:1092:C:H5'	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1103:G:H1	32:1a:1136:C:H42	1.44	0.64
33:1b:212:GLN:HE22	33:1b:235:SER:CB	2.11	0.64
33:1b:226:ARG:HG2	33:1b:226:ARG:O	1.97	0.64
35:1d:19:LEU:O	35:1d:21:LEU:HG	1.97	0.64
35:1d:19:LEU:HB3	35:1d:21:LEU:HD21	1.80	0.64
35:1d:104:VAL:HG12	35:1d:108:LEU:HD13	1.79	0.64
43:1l:47:LYS:HB3	43:1l:48:PRO:HA	1.79	0.64
48:1q:6:LEU:HD22	48:1q:42:TYR:CE2	2.33	0.64
1:2A:468:A:C6	5:2F:45:ARG:HD2	2.32	0.64
1:2A:523:U:C2'	1:2A:524:G:H5'	2.27	0.64
1:2A:827:A:O2'	1:2A:1818:C:O2	2.13	0.64
1:2A:1259:G:O6	59:2A:3831:HOH:O	2.12	0.64
1:2A:1602:C:H2'	1:2A:1603:C:H6	1.62	0.64
1:2A:2184:C:H5"	1:2A:2185:C:OP2	1.98	0.64
4:2E:144:ARG:HG2	4:2E:145:LYS:H	1.61	0.64
9:2N:137:LYS:NZ	9:2N:139:GLU:OE2	2.22	0.64
12:2Q:103:MET:CE	12:2Q:127:ILE:HD11	2.27	0.64
17:2V:72:VAL:HG12	17:2V:85:LYS:O	1.96	0.64
32:2a:38:U:H2'	32:2a:39:G:O4'	1.97	0.64
32:2a:608:C:H2'	32:2a:609:G:H8	1.62	0.64
32:2a:991:U:H3	32:2a:996:G:H1	1.46	0.64
32:2a:1287:G:O2'	32:2a:1288:A:OP2	2.16	0.64
32:2a:1340:U:H5"	32:2a:1341:C:OP2	1.98	0.64
35:2d:8:VAL:CG2	35:2d:21:LEU:HD13	2.28	0.64
35:2d:108:LEU:HD21	35:2d:183:GLY:HA3	1.79	0.64
36:2e:10:MET:CE	36:2e:55:VAL:HG11	2.23	0.64
36:2e:31:LEU:HD11	36:2e:129:ILE:HA	1.80	0.64
36:2e:100:VAL:HG11	36:2e:107:ARG:HG3	1.80	0.64
40:2i:21:PRO:HA	40:2i:59:PHE:HD1	1.61	0.64
41:2j:16:LEU:O	41:2j:20:ALA:N	2.27	0.64
41:2j:44:VAL:HG11	41:2j:46:ARG:NH1	2.12	0.64
50:2s:32:LYS:HG3	50:2s:57:HIS:CG	2.32	0.64
1:1A:731:A:O3'	59:1A:4302:HOH:O	2.14	0.64
1:1A:788:G:H4'	1:1A:1722:A:H5'	1.80	0.64
1:1A:837:C:H4'	1:1A:838:G:OP1	1.97	0.64
1:1A:1858:G:OP2	59:1A:4301:HOH:O	2.14	0.64
1:1A:2038:U:H4'	27:15:8:LYS:O	1.97	0.64
1:1A:2507:C:C2'	1:1A:2508:A:H5'	2.27	0.64
6:1G:170:ARG:HG3	6:1G:180:PHE:CE2	2.32	0.64
25:13:13:ILE:O	59:13:202:HOH:O	2.14	0.64
32:1a:137:G:H2'	32:1a:138:A:H8	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:234:G:O2'	32:1a:235:U:H5'	1.98	0.64
32:1a:353:G:H3'	59:1a:2078:HOH:O	1.98	0.64
32:1a:372:G:H4'	47:1p:5:ARG:HD2	1.80	0.64
32:1a:510:C:OP1	32:1a:891:A:O2'	2.10	0.64
32:1a:648:G:H2'	32:1a:650:G:OP1	1.98	0.64
32:1a:1091:G:O6	59:1a:2042:HOH:O	2.14	0.64
34:1c:184:TYR:HE1	34:1c:201:TYR:CE1	2.16	0.64
40:1i:26:VAL:HG12	40:1i:28:VAL:HG23	1.77	0.64
43:1l:117:ARG:NH1	43:1l:123:LYS:O	2.31	0.64
1:2A:716:A:H5"	11:2P:43:GLY:N	2.12	0.64
1:2A:885:U:H3	1:2A:983:G:H1	1.45	0.64
1:2A:987:U:OP2	59:2A:3852:HOH:O	2.14	0.64
1:2A:2455:G:P	5:2F:68:LYS:HD2	2.37	0.64
4:2E:59:VAL:C	4:2E:64:LYS:HE2	2.23	0.64
5:2F:20:LEU:HD13	5:2F:125:LEU:HD12	1.79	0.64
17:2V:1:MET:HE2	17:2V:43:GLU:HB2	1.78	0.64
17:2V:52:VAL:CG2	17:2V:55:ALA:HB3	2.27	0.64
21:2Z:102:LEU:CB	21:2Z:104:PHE:HE1	2.10	0.64
32:2a:926:C:O2'	32:2a:927:A:H5'	1.98	0.64
32:2a:972:A:C2'	32:2a:973:C:H5'	2.27	0.64
32:2a:1213:G:H2'	32:2a:1214:U:O4'	1.98	0.64
40:2i:17:VAL:HG23	40:2i:63:ILE:CG1	2.27	0.64
43:2l:27:LEU:HD23	43:2l:30:ALA:O	1.98	0.64
43:2l:76:ASN:ND2	43:2l:108:ALA:HB2	2.13	0.64
47:2p:19:ILE:HB	47:2p:37:GLY:HA3	1.78	0.64
51:2t:57:ARG:NH2	51:2t:100:ILE:HG21	2.13	0.64
1:1A:396:G:OP2	59:1A:4315:HOH:O	2.15	0.64
1:1A:810:A:H5'	3:1D:210:GLY:HA3	1.80	0.64
1:1A:1699:G:O3'	13:1R:2:ARG:HB2	1.96	0.64
1:1A:1721:C:OP2	59:1A:4310:HOH:O	2.15	0.64
1:1A:2536:G:H1	1:1A:2549:C:H42	1.44	0.64
3:1D:69:ARG:NE	3:1D:130:ALA:HB2	2.12	0.64
21:1Z:93:ASP:CG	21:1Z:131:ARG:HH21	2.06	0.64
32:1a:913:A:N1	32:1a:1363:U:O4	2.30	0.64
32:1a:983:A:O2'	32:1a:1021:C:O2	2.09	0.64
33:1b:137:ARG:CZ	33:1b:138:LEU:HG	2.28	0.64
34:1c:59:ARG:HG2	34:1c:64:VAL:HG23	1.79	0.64
35:1d:158:ILE:HG13	35:1d:159:ARG:N	2.12	0.64
37:1f:30:LEU:HD11	37:1f:63:TYR:CE2	2.33	0.64
40:1i:26:VAL:CG1	40:1i:33:PHE:HB2	2.27	0.64
40:1i:108:VAL:CG1	40:1i:109:VAL:H	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:375:G:H21	1:2A:455:A:H5"	1.62	0.64
1:2A:747:G:O6	59:2A:3842:HOH:O	2.13	0.64
1:2A:1137:C:H2'	1:2A:1137:C:O2	1.97	0.64
1:2A:1626:A:H3'	1:2A:1627:G:C8	2.31	0.64
1:2A:1699:G:C6	13:2R:9:LYS:HB2	2.33	0.64
1:2A:1812:C:O2	1:2A:2619:G:O2'	2.16	0.64
1:2A:2160:C:H2'	1:2A:2161:C:H5'	1.78	0.64
1:2A:2279:A:OP1	59:2A:3855:HOH:O	2.15	0.64
1:2A:2301:G:H22	1:2A:2354:C:H1'	1.63	0.64
1:2A:2691:C:OP2	4:2E:111:ARG:NH2	2.30	0.64
1:2A:2728:U:O2'	1:2A:2729:G:H5'	1.96	0.64
1:2A:2768:U:H4'	1:2A:2769:A:OP1	1.98	0.64
6:2G:36:LYS:HD2	6:2G:93:THR:HG23	1.78	0.64
14:2S:62:LYS:HA	14:2S:65:VAL:HB	1.79	0.64
17:2V:14:VAL:HA	17:2V:18:LEU:HD13	1.80	0.64
20:2Y:14:LEU:HB2	20:2Y:75:ILE:HD11	1.79	0.64
32:2a:402:G:H21	35:2d:119:GLN:HE22	1.46	0.64
32:2a:426:A:H2'	32:2a:427:A:H5'	1.79	0.64
32:2a:508:G:H2'	32:2a:509:C:C6	2.33	0.64
32:2a:1006:C:N3	32:2a:1017:G:O6	2.31	0.64
32:2a:1500:U:O2'	32:2a:1501:G:H5'	1.97	0.64
33:2b:125:PRO:O	33:2b:127:ILE:N	2.28	0.64
35:2d:57:ARG:HB3	35:2d:206:PHE:HB2	1.80	0.64
49:2r:36:ASN:O	49:2r:40:LEU:HG	1.97	0.64
51:2t:89:ARG:O	51:2t:93:GLU:HG2	1.98	0.64
1:1A:387:A:H2'	1:1A:388:G:C8	2.29	0.64
1:1A:806:G:H2'	1:1A:807:A:O4'	1.97	0.64
1:1A:2256:U:H5"	1:1A:2257:G:H5'	1.80	0.64
1:1A:2304:C:N4	1:1A:2350:G:O6	2.15	0.64
1:1A:2330:G:N1	14:1S:3:ARG:HA	2.12	0.64
1:1A:2558:U:O2	10:1O:23:ARG:NH2	2.30	0.64
3:1D:130:ALA:C	3:1D:131:LEU:HD12	2.21	0.64
5:1F:184:TYR:O	5:1F:188:ARG:HG3	1.98	0.64
10:1O:49:ARG:NH2	32:1a:1406:G:OP1	2.19	0.64
12:1Q:68:ILE:HG22	12:1Q:101:ARG:HE	1.61	0.64
19:1X:31:HIS:CD2	19:1X:33:LYS:HB2	2.33	0.64
26:14:16:CYS:HA	26:14:33:VAL:HG23	1.79	0.64
32:1a:873:G:O2'	32:1a:874:C:H5'	1.98	0.64
32:1a:933:U:O2	32:1a:1207:A:N1	2.31	0.64
32:1a:1318:C:H4'	32:1a:1319:G:O5'	1.97	0.64
34:1c:22:TRP:CH2	34:1c:29:TYR:HD1	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1d:98:GLU:HA	35:1d:103:ASN:ND2	2.13	0.64
40:1i:22:GLY:HA3	40:1i:60:ASP:CG	2.23	0.64
41:1j:50:ILE:HG12	41:1j:60:ARG:CD	2.28	0.64
43:1l:85:ILE:HD12	43:1l:98:TYR:HD2	1.63	0.64
44:1m:79:LYS:HD3	44:1m:83:ASP:OD2	1.98	0.64
50:1s:37:ARG:HG3	50:1s:38:SER:N	2.13	0.64
1:2A:440:C:O2	1:2A:1894:U:O2'	2.11	0.64
1:2A:619:U:O2'	1:2A:620:G:H5'	1.98	0.64
1:2A:967:U:H2'	1:2A:968:C:C6	2.33	0.64
1:2A:1969:G:H21	32:2a:1401:A:H2	1.45	0.64
1:2A:2866:G:N2	1:2A:2869:A:OP2	2.22	0.64
6:2G:102:PHE:CE2	6:2G:106:LEU:HD22	2.33	0.64
8:2I:104:GLN:HG2	8:2I:105:HIS:CD2	2.33	0.64
32:2a:117:C:O2'	32:2a:118:G:H5'	1.98	0.64
32:2a:522:G:H3'	43:2l:115:LYS:NZ	2.12	0.64
32:2a:527:C:H2'	32:2a:528:G:C8	2.31	0.64
32:2a:778:A:H2'	32:2a:779:C:C6	2.32	0.64
32:2a:1180:G:O2'	32:2a:1181:U:H5'	1.98	0.64
32:2a:1288:A:H62	32:2a:1313:G:H21	1.46	0.64
33:2b:145:LEU:HB3	33:2b:149:LEU:HD12	1.80	0.64
34:2c:77:ILE:HG13	34:2c:78:GLY:N	2.12	0.64
36:2e:144:THR:N	36:2e:147:ASP:HB2	2.11	0.64
38:2g:50:ILE:HD11	38:2g:58:PRO:CA	2.27	0.64
40:2i:17:VAL:HG23	40:2i:63:ILE:CD1	2.28	0.64
47:2p:43:LYS:HA	47:2p:48:TRP:HB3	1.78	0.64
49:2r:53:ARG:NH2	49:2r:58:LEU:O	2.30	0.64
1:1A:303:C:H42	1:1A:383:G:H1	1.46	0.64
1:1A:396:G:H4'	1:1A:397:A:OP2	1.96	0.64
1:1A:776:C:OP2	59:1A:4296:HOH:O	2.14	0.64
1:1A:793:U:O2	1:1A:2035:A:H1'	1.98	0.64
1:1A:1127:U:N3	1:1A:1131:A:N6	2.22	0.64
1:1A:1222:C:O2'	1:1A:1223:C:H5'	1.98	0.64
1:1A:2682:A:O2'	1:1A:2683:G:H5'	1.98	0.64
5:1F:126:VAL:HG21	5:1F:129:PHE:CE1	2.33	0.64
18:1W:68:ARG:HH11	18:1W:111:HIS:HA	1.62	0.64
21:1Z:54:HIS:ND1	21:1Z:101:PRO:HG3	2.13	0.64
21:1Z:132:ASN:ND2	21:1Z:160:GLY:HA3	2.12	0.64
23:11:46:LEU:HA	23:11:63:ALA:HA	1.79	0.64
32:1a:1284:U:C5	44:1m:17:VAL:HG21	2.33	0.64
32:1a:1355:U:H2'	32:1a:1356:G:O4'	1.98	0.64
36:1e:15:ARG:HG3	36:1e:28:PHE:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:67:MET:HE1	37:1f:75:LEU:HD22	1.80	0.64
1:2A:705:C:C2'	1:2A:706:G:H5'	2.28	0.64
1:2A:894:G:H2'	1:2A:895:A:C8	2.33	0.64
1:2A:1174:A:O2'	1:2A:2526:C:O2	2.16	0.64
1:2A:1192:C:O2'	1:2A:1193:A:H5'	1.98	0.64
1:2A:1516:G:N2	1:2A:1567:G:OP2	2.29	0.64
1:2A:2183:G:H2'	1:2A:2184:C:C6	2.33	0.64
1:2A:2272:C:O2'	1:2A:2273:U:H5'	1.97	0.64
2:2B:3:C:H2'	2:2B:4:C:H6	1.62	0.64
5:2F:53:THR:C	5:2F:55:GLY:H	2.06	0.64
8:2I:14:ASP:OD1	8:2I:15:VAL:N	2.30	0.64
20:2Y:6:HIS:ND1	20:2Y:7:VAL:HG23	2.12	0.64
20:2Y:40:GLU:O	20:2Y:42:VAL:HG23	1.97	0.64
21:2Z:57:ILE:HD12	21:2Z:71:VAL:HG23	1.80	0.64
22:20:46:LYS:O	22:20:78:TYR:HA	1.98	0.64
23:21:49:VAL:HG11	23:21:70:VAL:HG11	1.80	0.64
27:25:20:ARG:HG2	27:25:23:HIS:CE1	2.32	0.64
32:2a:289:G:N1	32:2a:300:U:O2	2.18	0.64
32:2a:320:G:N1	32:2a:323:A:OP2	2.30	0.64
32:2a:445:G:H4'	47:2p:41:PRO:HB2	1.79	0.64
32:2a:543:A:C5'	32:2a:544:U:H3'	2.28	0.64
32:2a:548:C:HO2'	39:2h:91:ARG:HH12	1.45	0.64
32:2a:1301:A:OP2	50:2s:3:ARG:HD2	1.97	0.64
32:2a:1304:C:H5"	44:2m:100:GLY:HA2	1.78	0.64
36:2e:144:THR:OG1	36:2e:147:ASP:N	2.26	0.64
37:2f:3:ARG:HG2	37:2f:93:SER:OG	1.97	0.64
39:2h:33:GLU:OE2	39:2h:59:LEU:HD21	1.98	0.64
40:2i:84:ALA:O	40:2i:87:GLN:HB3	1.98	0.64
44:2m:80:ARG:O	44:2m:84:ILE:HG23	1.97	0.64
1:1A:1677:A:OP1	59:1A:4317:HOH:O	2.15	0.63
1:1A:2172:G:H2'	1:1A:2173:G:O4'	1.98	0.63
2:1B:11:C:OP2	2:1B:12:C:N4	2.26	0.63
32:1a:402:G:C4'	35:1d:5:ILE:HD11	2.26	0.63
32:1a:558:A:H1'	32:1a:861:C:O4'	1.98	0.63
32:1a:1160:G:OP2	40:1i:93:ARG:NH2	2.31	0.63
32:1a:1309:C:O2'	32:1a:1310:C:H5'	1.97	0.63
47:1p:11:SER:H	47:1p:14:ASN:HB3	1.61	0.63
48:1q:83:ASP:OD1	48:1q:84:LEU:N	2.31	0.63
1:2A:180:C:O2'	1:2A:848:A:N3	2.25	0.63
1:2A:676:C:H2'	1:2A:677:A:H5'	1.80	0.63
1:2A:747:G:H1	1:2A:777:C:H42	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1269:C:H4'	17:2V:86:GLY:O	1.98	0.63
1:2A:1457:A:H2'	1:2A:1458:G:C8	2.34	0.63
1:2A:2076:C:H4'	1:2A:2077:G:H5"	1.80	0.63
1:2A:2095:U:O2'	1:2A:2608:G:O2'	1.85	0.63
1:2A:2889:C:O2	13:2R:93:GLY:N	2.31	0.63
9:2N:42:TRP:O	16:2U:64:ARG:NE	2.29	0.63
11:2P:115:LEU:HD23	11:2P:131:SER:HB3	1.80	0.63
32:2a:71:G:H1	32:2a:93:U:H3	1.45	0.63
32:2a:872:G:O6	59:2a:1928:HOH:O	2.11	0.63
32:2a:1140:A:H4'	32:2a:1141:C:O5'	1.97	0.63
32:2a:1240:G:H2'	32:2a:1241:C:C6	2.32	0.63
38:2g:133:GLY:O	38:2g:136:LYS:HB2	1.98	0.63
49:2r:74:ARG:HB3	49:2r:79:LEU:HB2	1.81	0.63
1:1A:323:A:OP1	20:1Y:86:ARG:NH2	2.31	0.63
1:1A:798:A:C3'	29:17:1:MET:HE1	2.26	0.63
1:1A:2641:G:O2'	1:1A:2642:G:H5'	1.98	0.63
1:1A:2656:G:O6	59:1A:4233:HOH:O	2.10	0.63
56:1A:3801:FSD:NAF	12:1Q:80:GLU:O	2.32	0.63
10:1O:8:LEU:CD1	10:1O:82:ASN:HB3	2.27	0.63
13:1R:24:GLN:HE22	13:1R:40:LYS:HB3	1.63	0.63
21:1Z:17:ALA:O	21:1Z:21:ALA:N	2.30	0.63
32:1a:1209:A:OP2	44:1m:111:LYS:NZ	2.31	0.63
32:1a:1288:A:C2'	32:1a:1289:U:H5'	2.28	0.63
33:1b:208:ILE:O	33:1b:211:ILE:N	2.31	0.63
35:1d:33:MET:SD	35:1d:37:PRO:HA	2.39	0.63
1:2A:475:G:O6	59:2A:3619:HOH:O	2.12	0.63
1:2A:594:A:H5"	1:2A:595:G:OP2	1.97	0.63
1:2A:1084:G:C2'	1:2A:1085:C:H5'	2.28	0.63
1:2A:1200:A:O3'	16:2U:55:ARG:NH2	2.32	0.63
1:2A:1638:G:H2'	1:2A:1639:G:H8	1.63	0.63
1:2A:2165:U:H1'	1:2A:2168:G:O6	1.99	0.63
2:2B:86:G:H1	2:2B:91:C:H42	1.46	0.63
13:2R:29:LEU:CB	13:2R:75:LEU:HD21	2.24	0.63
13:2R:55:ALA:HB1	13:2R:84:ALA:HB2	1.78	0.63
18:2W:66:GLU:HA	18:2W:69:LEU:CD1	2.28	0.63
22:20:48:GLY:H	22:20:51:VAL:HB	1.61	0.63
26:24:24:THR:C	26:24:25:TYR:HD1	2.05	0.63
32:2a:806:C:O2'	32:2a:807:G:H5'	1.98	0.63
32:2a:951:G:H1'	41:2j:54:PHE:CD1	2.33	0.63
32:2a:1268:A:H2'	32:2a:1269:A:C4'	2.23	0.63
32:2a:1385:4OC:HM23	32:2a:1386:C:O4'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:122:PHE:HA	33:2b:127:ILE:HG12	1.79	0.63
36:2e:33:VAL:HG13	36:2e:112:LEU:CD1	2.28	0.63
39:2h:112:LEU:HA	39:2h:134:ILE:HG12	1.80	0.63
44:2m:29:ARG:HG3	44:2m:64:TRP:CH2	2.32	0.63
1:1A:468:A:N6	5:1F:41:LEU:O	2.29	0.63
1:1A:524:G:N2	1:1A:526:A:H3'	2.13	0.63
1:1A:1829:G:N2	1:1A:1849:A:OP2	2.24	0.63
9:1N:41:ASP:C	9:1N:48:MET:HE1	2.24	0.63
11:1P:68:GLN:OE1	30:18:12:LYS:HG2	1.97	0.63
30:18:48:PHE:CE2	30:18:50:LEU:HD23	2.32	0.63
32:1a:203:A:OP1	51:1t:68:LYS:NZ	2.30	0.63
32:1a:356:A:H2'	32:1a:357:G:C8	2.33	0.63
32:1a:976:G:H2'	32:1a:977:C:C6	2.32	0.63
33:1b:24:TRP:CZ3	33:1b:26:PRO:HA	2.33	0.63
40:1i:49:PRO:HG2	40:1i:81:ILE:HD11	1.81	0.63
47:1p:40:ASP:O	47:1p:48:TRP:HB2	1.99	0.63
50:1s:20:LEU:HA	50:1s:23:ASN:ND2	2.14	0.63
1:2A:145:G:O2'	1:2A:146:U:H5'	1.98	0.63
1:2A:853:U:O2'	1:2A:854:G:H5'	1.98	0.63
1:2A:1163:C:H2'	1:2A:1164:C:O4'	1.99	0.63
1:2A:1262:C:OP2	16:2U:15:LYS:NZ	2.19	0.63
1:2A:2032:U:H2'	1:2A:2033:G:H5'	1.81	0.63
1:2A:2309:A:C2	1:2A:2310:G:H1'	2.33	0.63
7:2H:9:ILE:O	7:2H:49:VAL:HA	1.99	0.63
7:2H:54:ARG:NH2	7:2H:57:ASP:OD1	2.25	0.63
17:2V:5:VAL:CG1	17:2V:57:VAL:HG21	2.27	0.63
31:29:24:TYR:CD1	31:29:35:ARG:HG3	2.33	0.63
32:2a:53:G:H2'	32:2a:54:A:H8	1.64	0.63
32:2a:378:A:H2'	32:2a:379:A:C8	2.34	0.63
32:2a:556:A:OP1	59:2a:1932:HOH:O	2.15	0.63
32:2a:727:U:H2'	32:2a:728:C:H6	1.61	0.63
32:2a:914:C:H2'	32:2a:915:A:O4'	1.97	0.63
33:2b:90:MET:HE3	33:2b:222:ILE:HD12	1.79	0.63
1:1A:346:G:H2'	5:1F:169:ASN:OD1	1.98	0.63
1:1A:552:A:N7	1:1A:2064:C:H4'	2.13	0.63
1:1A:767:C:H2'	1:1A:768:A:C8	2.34	0.63
1:1A:902:C:H4'	22:10:27:GLU:OE1	1.99	0.63
1:1A:1355:G:H2'	1:1A:1356:G:H5'	1.80	0.63
1:1A:1697:G:N7	13:1R:11:ASN:ND2	2.46	0.63
6:1G:170:ARG:HG3	6:1G:180:PHE:HE2	1.63	0.63
16:1U:27:LEU:O	16:1U:30:LYS:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1106:A:H4'	41:1j:36:GLY:HA3	1.79	0.63
34:1c:114:PRO:O	34:1c:118:GLN:HG3	1.99	0.63
37:1f:99:ALA:CB	49:1r:29:PHE:CE1	2.81	0.63
40:1i:9:ARG:N	40:1i:79:LEU:HD23	2.12	0.63
1:2A:122:G:OP2	29:27:19:ARG:NE	2.28	0.63
1:2A:126:C:O2'	1:2A:127:C:H5'	1.97	0.63
1:2A:1211:C:H42	1:2A:1227:G:H1	1.45	0.63
1:2A:2018:G:C2'	1:2A:2019:G:H5'	2.28	0.63
1:2A:2117:U:O4	1:2A:2214:G:O6	2.15	0.63
1:2A:2463:C:OP1	59:2A:3859:HOH:O	2.15	0.63
1:2A:2573:U:H1'	10:2O:23:ARG:HD3	1.79	0.63
1:2A:2693:U:H5'	4:2E:11:MET:O	1.99	0.63
6:2G:107:LEU:HD22	6:2G:111:LEU:HD11	1.78	0.63
9:2N:99:LEU:O	9:2N:99:LEU:HD23	1.99	0.63
32:2a:1344:C:C2'	32:2a:1345:C:H5"	2.29	0.63
32:2a:1388:G:H2'	32:2a:1389:U:C6	2.33	0.63
32:2a:1401:A:H5"	32:2a:1402:G:OP2	1.99	0.63
33:2b:61:LEU:CD2	33:2b:68:ILE:HD11	2.28	0.63
33:2b:71:VAL:CG2	33:2b:164:VAL:HG22	2.27	0.63
33:2b:163:PHE:HE2	33:2b:215:LEU:HD23	1.63	0.63
39:2h:13:ILE:O	39:2h:17:THR:HG23	1.99	0.63
48:2q:27:PHE:CZ	48:2q:36:ILE:HD11	2.33	0.63
1:1A:74:C:O2'	1:1A:75:C:H5'	1.99	0.63
1:1A:641:G:H5'	5:1F:205:ARG:HD2	1.79	0.63
1:1A:1026:A:H1'	1:1A:2058:G:H1'	1.78	0.63
1:1A:1104:G:N1	1:1A:1124:C:O2	2.27	0.63
1:1A:1652:C:H5"	1:1A:1653:A:H5'	1.80	0.63
1:1A:2121:G:N2	1:1A:2210:U:O2	2.28	0.63
1:1A:2630:C:OP1	4:1E:152:LYS:NZ	2.30	0.63
4:1E:2:LYS:HA	4:1E:84:PHE:CD1	2.33	0.63
21:1Z:29:TYR:CE1	21:1Z:87:ASP:HB3	2.33	0.63
26:14:59:PHE:CE1	50:1s:45:VAL:HB	2.34	0.63
32:1a:45:G:O6	32:1a:394:C:N4	2.17	0.63
32:1a:342:G:H3'	55:1a:1900:MPD:O4	1.98	0.63
32:1a:975:U:C3'	32:1a:976:G:H5"	2.28	0.63
32:1a:1149:G:H5'	32:1a:1150:A:OP2	1.97	0.63
32:1a:1292:G:O2'	32:1a:1293:G:H5'	1.97	0.63
34:1c:112:SER:O	34:1c:116:VAL:HG23	1.98	0.63
35:1d:119:GLN:HG3	35:1d:123:HIS:ND1	2.13	0.63
37:1f:8:ILE:HG22	37:1f:10:LEU:HD11	1.81	0.63
37:1f:14:LEU:HD11	37:1f:84:ASN:CG	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:48:LEU:HD21	37:1f:60:PHE:HZ	1.63	0.63
47:1p:79:VAL:HG23	47:1p:80:PHE:CD1	2.34	0.63
51:1t:20:LEU:HA	51:1t:23:ARG:HB3	1.79	0.63
1:2A:439:C:H42	1:2A:2421:G:H1	1.45	0.63
1:2A:613:C:H1'	30:28:2:PRO:HA	1.81	0.63
1:2A:897:U:H5'	25:23:49:LYS:CE	2.26	0.63
1:2A:1050:C:O2'	9:2N:28:THR:HG23	1.99	0.63
1:2A:1465:U:HO2'	1:2A:1466:G:P	2.21	0.63
1:2A:1807:U:O2'	1:2A:1808:U:H5'	1.98	0.63
1:2A:2337:C:O2'	21:2Z:201:LYS:HE2	1.99	0.63
3:2D:20:ASP:OD1	3:2D:21:PHE:N	2.32	0.63
3:2D:80:ALA:HB3	3:2D:94:LEU:CD1	2.28	0.63
7:2H:3:ARG:CG	7:2H:6:ARG:HB2	2.28	0.63
21:2Z:5:LEU:N	21:2Z:58:VAL:O	2.32	0.63
25:23:3:ARG:HG2	25:23:38:GLU:HA	1.80	0.63
26:24:1:MET:HB3	26:24:6:HIS:CD2	2.34	0.63
32:2a:1296:C:O2'	32:2a:1297:U:O4'	2.14	0.63
33:2b:185:ILE:HA	33:2b:199:TYR:O	1.97	0.63
34:2c:125:GLU:HG3	34:2c:189:ALA:HB1	1.81	0.63
38:2g:29:LYS:HB3	38:2g:105:VAL:HG21	1.81	0.63
51:2t:84:LEU:O	51:2t:88:VAL:N	2.32	0.63
1:1A:46:G:N7	59:1A:4469:HOH:O	2.31	0.63
1:1A:1873:C:O2'	3:1D:256:GLY:O	2.15	0.63
1:1A:1903:C:H2'	1:1A:1904:G:O4'	1.98	0.63
59:1A:4341:HOH:O	11:1P:21:ARG:NH2	2.32	0.63
15:1T:127:ALA:C	15:1T:129:ARG:H	2.06	0.63
32:1a:269:A:O2'	32:1a:270:A:H5'	1.98	0.63
32:1a:390:G:O2'	32:1a:391:C:H5'	1.99	0.63
32:1a:1222:U:OP1	38:1g:119:ARG:NH2	2.32	0.63
32:1a:1294:G:H5'	50:1s:5:LEU:HD11	1.81	0.63
33:1b:70:PHE:CD2	33:1b:85:ALA:HB2	2.34	0.63
33:1b:163:PHE:CD1	33:1b:185:ILE:HG13	2.33	0.63
38:1g:137:LYS:O	38:1g:141:VAL:HG23	1.98	0.63
41:1j:12:ASP:OD2	41:1j:15:THR:HG23	1.99	0.63
44:1m:108:ARG:CZ	44:1m:114:ARG:HG2	2.28	0.63
1:2A:17:C:O2'	16:2U:23:GLY:HA2	1.98	0.63
1:2A:128:G:OP1	59:2A:3858:HOH:O	2.15	0.63
1:2A:154:C:H42	1:2A:159:G:H1	1.45	0.63
1:2A:512:C:H2'	1:2A:513:G:H5'	1.80	0.63
1:2A:1114:A:OP1	1:2A:1141:A:H5'	1.98	0.63
1:2A:1561:U:H2'	1:2A:1562:G:H8	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1810:A:N6	59:2A:3698:HOH:O	2.31	0.63
1:2A:2040:A:H62	27:25:9:LYS:HE3	1.63	0.63
1:2A:2394:G:O2'	1:2A:2395:G:H5'	1.98	0.63
1:2A:2402:G:O2'	1:2A:2433:A:N7	2.31	0.63
7:2H:139:GLN:HG2	7:2H:140:LYS:N	2.14	0.63
32:2a:132:C:O2'	32:2a:133:G:H5'	1.98	0.63
32:2a:216:G:C2'	32:2a:217:C:H5'	2.28	0.63
32:2a:589:U:H2'	32:2a:590:G:O4'	1.98	0.63
32:2a:693:G:H2'	32:2a:694:G:H8	1.64	0.63
34:2c:43:LEU:HB3	34:2c:47:LEU:HD12	1.81	0.63
39:2h:86:ILE:CG2	39:2h:133:LEU:HD22	2.27	0.63
39:2h:100:ILE:HG22	39:2h:125:ARG:HH11	1.64	0.63
40:2i:78:LYS:HD3	40:2i:101:PHE:CD1	2.27	0.63
1:1A:1297:G:N2	16:1U:37:GLU:OE2	2.26	0.63
1:1A:1719:U:H5'	59:1A:3997:HOH:O	1.98	0.63
1:1A:1758:C:H42	1:1A:1776:G:H1	1.44	0.63
1:1A:1860:C:O2'	1:1A:1861:G:H5'	1.98	0.63
1:1A:2058:G:O6	59:1A:4259:HOH:O	2.11	0.63
1:1A:2602:C:OP1	3:1D:239:ARG:HD2	1.99	0.63
1:1A:2612:C:C3'	1:1A:2613:A:H5"	2.28	0.63
1:1A:2866:G:H3'	59:1A:4171:HOH:O	1.99	0.63
1:1A:2896:U:O2'	1:1A:2897:C:H5'	1.98	0.63
6:1G:37:VAL:HG13	6:1G:158:ALA:O	1.99	0.63
24:12:32:LEU:O	24:12:35:LEU:N	2.32	0.63
31:19:25:VAL:O	31:19:33:LYS:HA	1.99	0.63
32:1a:442:G:O6	32:1a:470:G:O2'	2.13	0.63
32:1a:905:G:O6	32:1a:1373:U:O4	2.17	0.63
32:1a:1003:G:N2	32:1a:1004:U:O4'	2.32	0.63
32:1a:1051:G:O2'	32:1a:1052:C:H5'	1.99	0.63
35:1d:188:LEU:O	35:1d:188:LEU:HD12	1.98	0.63
37:1f:62:TRP:C	37:1f:63:TYR:HD1	2.06	0.63
40:1i:18:PHE:N	40:1i:18:PHE:HD1	1.97	0.63
49:1r:37:VAL:O	49:1r:41:LYS:HG2	1.98	0.63
1:2A:721:A:OP1	5:2F:63:LYS:NZ	2.29	0.63
1:2A:1057:U:C5	9:2N:28:THR:HG21	2.34	0.63
1:2A:1457:A:H2'	1:2A:1458:G:H8	1.62	0.63
1:2A:1552:A:N3	1:2A:1553:A:H1'	2.14	0.63
1:2A:2134:U:H2'	1:2A:2135:A:O4'	1.97	0.63
1:2A:2204:C:H2'	1:2A:2205:G:C8	2.34	0.63
1:2A:2573:U:C2'	1:2A:2574:U:H5'	2.28	0.63
1:2A:2646:C:H4'	4:2E:48:GLN:HE21	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:108:SER:HB3	4:2E:165:VAL:HG21	1.79	0.63
4:2E:111:ARG:HB2	4:2E:160:TYR:O	1.98	0.63
5:2F:129:PHE:CD2	5:2F:163:VAL:HG21	2.34	0.63
6:2G:101:ILE:HG22	6:2G:105:LYS:HD3	1.80	0.63
8:2I:57:ARG:HB2	8:2I:61:ARG:NH2	2.14	0.63
11:2P:91:PHE:N	11:2P:91:PHE:HD1	1.97	0.63
12:2Q:2:LEU:HD23	12:2Q:69:PHE:CD1	2.33	0.63
14:2S:61:ASN:O	14:2S:65:VAL:HG23	1.99	0.63
16:2U:87:GLY:O	17:2V:49:THR:HA	1.97	0.63
19:2X:65:ARG:HD3	19:2X:70:LEU:CD2	2.29	0.63
20:2Y:5:MET:HE1	20:2Y:69:ALA:HB2	1.79	0.63
24:22:10:LEU:HB2	59:22:101:HOH:O	1.98	0.63
32:2a:660:A:H1'	42:2k:115:PRO:HB3	1.80	0.63
32:2a:1319:G:H5"	32:2a:1320:G:OP1	1.97	0.63
34:2c:53:ALA:CB	34:2c:115:LEU:HD11	2.29	0.63
40:2i:75:ASP:O	40:2i:78:LYS:N	2.31	0.63
1:1A:1070:G:C4	1:1A:1179:C:H1'	2.34	0.63
1:1A:1475:C:H2'	1:1A:1476:U:C6	2.34	0.63
1:1A:2094:C:H5"	3:1D:229:VAL:HG22	1.81	0.63
1:1A:2121:G:O6	1:1A:2210:U:O4	2.16	0.63
1:1A:2382:G:O6	59:1A:4290:HOH:O	2.14	0.63
1:1A:2696:G:H5'	10:1O:68:GLU:OE2	1.99	0.63
11:1P:130:PHE:HE2	11:1P:145:PRO:HB3	1.62	0.63
30:18:26:LYS:HB3	30:18:44:LYS:O	1.98	0.63
32:1a:839:G:O2'	32:1a:840:C:H5'	1.98	0.63
32:1a:1060:G:N2	32:1a:1063:A:OP2	2.31	0.63
32:1a:1165:A:C3'	32:1a:1166:G:H5"	2.27	0.63
33:1b:19:HIS:CE1	33:1b:20:GLU:HG3	2.34	0.63
34:1c:29:TYR:HE1	45:1n:54:PRO:HD2	1.62	0.63
35:1d:104:VAL:HA	35:1d:107:ARG:HB2	1.81	0.63
41:1j:44:VAL:HG12	41:1j:46:ARG:HG3	1.81	0.63
1:2A:27:A:O2'	1:2A:605:G:H5'	1.99	0.63
1:2A:106:G:O2'	1:2A:107:G:H5'	1.99	0.63
1:2A:144:G:O2'	1:2A:145:G:H5'	1.98	0.63
1:2A:228:G:O6	59:2A:3832:HOH:O	2.12	0.63
1:2A:473:U:C4	1:2A:605:G:H1'	2.34	0.63
1:2A:597:A:H4'	1:2A:2511:U:H4'	1.81	0.63
1:2A:857:U:H2'	11:2P:21:ARG:HA	1.81	0.63
6:2G:15:VAL:CG1	6:2G:172:LEU:HD12	2.28	0.63
6:2G:145:THR:HG22	6:2G:148:MET:HG2	1.80	0.63
8:2I:122:GLU:O	8:2I:126:TYR:OH	2.09	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2O:35:VAL:HG11	10:2O:103:ALA:HB3	1.80	0.63
26:24:16:CYS:SG	26:24:17:GLY:N	2.72	0.63
32:2a:307:C:O2'	32:2a:308:C:H5'	1.98	0.63
32:2a:332:C:O2'	32:2a:333:C:H5'	1.98	0.63
32:2a:523:A:H2'	32:2a:524:G:C8	2.34	0.63
33:2b:122:PHE:HA	33:2b:127:ILE:HG21	1.80	0.63
33:2b:124:SER:HB2	33:2b:125:PRO:HD3	1.80	0.63
34:2c:6:HIS:HD2	34:2c:9:GLY:H	1.47	0.63
35:2d:173:TRP:CD1	35:2d:174:LEU:HG	2.33	0.63
37:2f:27:GLN:HA	37:2f:30:LEU:HD12	1.80	0.63
37:2f:96:PRO:HB2	37:2f:98:LEU:CD1	2.25	0.63
40:2i:17:VAL:CA	40:2i:63:ILE:HG12	2.26	0.63
40:2i:48:GLU:CD	40:2i:51:ARG:HD2	2.23	0.63
1:1A:1094:C:O2	1:1A:1158:U:H4'	1.98	0.63
1:1A:1118:A:H2	1:1A:1119:G:C8	2.17	0.63
1:1A:1409:G:N7	23:11:3:LYS:NZ	2.37	0.63
1:1A:1715:A:H5"	1:1A:2561:G:OP1	1.98	0.63
1:1A:1827:C:O2'	3:1D:259:THR:HG22	1.99	0.63
2:1B:119:G:C2'	2:1B:120:A:H5'	2.29	0.63
3:1D:68:LYS:O	3:1D:70:TRP:N	2.31	0.63
8:1I:80:PRO:HA	8:1I:145:VAL:O	1.99	0.63
13:1R:2:ARG:O	13:1R:2:ARG:HD2	1.98	0.63
14:1S:50:SER:O	14:1S:76:LYS:NZ	2.29	0.63
17:1V:82:ARG:O	59:1V:310:HOH:O	2.16	0.63
21:1Z:9:TYR:OH	21:1Z:61:LEU:HD23	1.99	0.63
23:11:25:LYS:O	23:11:28:GLY:N	2.30	0.63
32:1a:826:C:H2'	32:1a:827:C:H6	1.64	0.63
32:1a:969:U:C4	32:1a:1194:U:H1'	2.34	0.63
32:1a:1379:A:H2	36:1e:19:MET:HG3	1.63	0.63
36:1e:33:VAL:HG13	36:1e:112:LEU:HD12	1.80	0.63
38:1g:17:VAL:HG12	38:1g:18:TYR:CD1	2.33	0.63
38:1g:76:ARG:HD2	38:1g:156:TRP:HZ2	1.64	0.63
40:1i:112:LYS:HD3	40:1i:112:LYS:C	2.23	0.63
1:2A:8:U:HO2'	1:2A:9:G:P	2.21	0.63
1:2A:67:C:O2'	1:2A:68:G:H5'	1.99	0.63
1:2A:797:A:H5"	1:2A:798:A:OP1	1.99	0.63
1:2A:2332:G:HO2'	1:2A:2333:A:P	2.22	0.63
1:2A:2889:C:O2'	13:2R:90:ARG:NH1	2.32	0.63
5:2F:63:LYS:HA	5:2F:76:GLY:O	1.98	0.63
6:2G:83:ARG:H	6:2G:86:MET:HE3	1.64	0.63
7:2H:97:ARG:NH2	7:2H:104:GLU:OE1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2I:81:VAL:O	8:2I:146:ALA:HA	1.99	0.63
12:2Q:55:VAL:HG23	21:2Z:183:LEU:HD11	1.81	0.63
32:2a:7:G:O2'	32:2a:294:A:H1'	1.99	0.63
32:2a:9:A:H5'	36:2e:101:ILE:CG2	2.27	0.63
32:2a:400:U:O2'	32:2a:401:U:H5'	1.99	0.63
32:2a:792:C:O2'	32:2a:793:G:H5'	1.99	0.63
32:2a:992:G:H2'	32:2a:994:A:OP2	1.99	0.63
38:2g:37:ASN:OD1	40:2i:40:LEU:HD23	1.98	0.63
40:2i:110:GLU:CG	40:2i:119:ALA:HB1	2.29	0.63
1:1A:736:G:O2'	1:1A:826:G:OP1	2.15	0.62
1:1A:1210:U:H2'	1:1A:1211:C:C6	2.34	0.62
1:1A:1386:U:O4'	19:1X:57:LEU:HD23	1.98	0.62
1:1A:1555:A:H2'	1:1A:1556:A:C8	2.34	0.62
1:1A:1603:C:H5"	1:1A:1604:A:OP2	1.99	0.62
3:1D:134:ARG:HG3	3:1D:135:PHE:CD1	2.34	0.62
4:1E:111:ARG:HD2	4:1E:160:TYR:CE2	2.33	0.62
5:1F:64:ILE:HD12	5:1F:65:TRP:CZ3	2.34	0.62
5:1F:192:LEU:CD2	5:1F:194:MET:HE3	2.21	0.62
7:1H:83:TYR:CE2	7:1H:138:LYS:HD2	2.26	0.62
25:13:8:LEU:CD2	25:13:31:LEU:HD23	2.26	0.62
32:1a:77:G:O2'	32:1a:78:G:H5'	1.99	0.62
32:1a:425:U:H4'	32:1a:426:A:OP1	1.97	0.62
32:1a:635:C:O2'	32:1a:636:U:H5'	1.99	0.62
34:1c:12:LEU:HD13	34:1c:18:TRP:NE1	2.14	0.62
35:1d:193:ASP:O	35:1d:194:LEU:HD22	1.99	0.62
1:2A:665:C:O2'	1:2A:2361:C:OP1	2.12	0.62
1:2A:720:G:O2'	5:2F:67:GLN:NE2	2.30	0.62
1:2A:1241:G:O2'	1:2A:1242:U:H5'	1.98	0.62
1:2A:1448:C:C2'	1:2A:1449:C:H5'	2.29	0.62
1:2A:1711:A:H4'	10:2O:67:LYS:HB2	1.81	0.62
1:2A:1825:C:H1'	1:2A:1922:A:OP1	1.98	0.62
1:2A:2120:U:H1'	1:2A:2212:G:N2	2.14	0.62
1:2A:2163:C:H2'	1:2A:2164:C:C6	2.34	0.62
1:2A:2375:C:H2'	1:2A:2376:G:O4'	1.99	0.62
1:2A:2613:A:H3'	59:2A:4172:HOH:O	1.99	0.62
1:2A:2759:G:O2'	7:2H:67:LEU:HD13	1.99	0.62
6:2G:36:LYS:HD3	6:2G:95:ARG:NH1	2.14	0.62
7:2H:101:ARG:NH2	7:2H:118:PRO:O	2.31	0.62
15:2T:120:ARG:HG3	15:2T:123:GLN:NE2	2.14	0.62
17:2V:21:ARG:CZ	17:2V:91:TYR:HE2	2.12	0.62
19:2X:57:LEU:O	19:2X:77:LYS:HG3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:20:66:VAL:O	22:20:81:VAL:HA	1.99	0.62
32:2a:977:C:N4	32:2a:1025:G:N1	2.33	0.62
32:2a:1231:C:C2'	32:2a:1232:A:H5"	2.28	0.62
35:2d:150:GLU:HA	35:2d:153:ARG:CD	2.29	0.62
37:2f:89:MET:SD	49:2r:76:LEU:HD11	2.39	0.62
48:2q:83:ASP:OD1	48:2q:84:LEU:N	2.32	0.62
48:2q:87:LYS:O	48:2q:91:ARG:HG3	1.99	0.62
1:1A:294:C:H42	1:1A:388:G:H1	1.47	0.62
4:1E:117:MET:SD	4:1E:136:ARG:HA	2.40	0.62
5:1F:103:LYS:O	5:1F:106:ARG:HG2	2.00	0.62
5:1F:129:PHE:HE2	5:1F:163:VAL:HG11	1.63	0.62
6:1G:16:ARG:HE	6:1G:31:VAL:HG21	1.63	0.62
8:1I:99:GLU:O	8:1I:103:ARG:N	2.20	0.62
20:1Y:35:TYR:OH	59:1Y:603:HOH:O	2.11	0.62
32:1a:352:A:N3	32:1a:364:U:O2'	2.23	0.62
32:1a:425:U:C1'	32:1a:426:A:H5"	2.28	0.62
32:1a:808:C:H42	32:1a:854:G:H1	1.47	0.62
32:1a:1159:G:OP2	40:1i:97:LYS:NZ	2.28	0.62
35:1d:70:ILE:CD1	35:1d:75:PHE:HB2	2.30	0.62
38:1g:78:ARG:HD2	38:1g:156:TRP:CZ3	2.34	0.62
38:1g:78:ARG:N	38:1g:85:TYR:O	2.24	0.62
39:1h:97:VAL:HA	39:1h:100:ILE:CD1	2.29	0.62
44:1m:20:THR:HA	44:1m:25:ILE:O	1.99	0.62
50:1s:3:ARG:NH2	50:1s:7:LYS:HB3	2.15	0.62
1:2A:1230:G:N3	1:2A:1231:G:H1'	2.14	0.62
1:2A:1636:G:H2'	1:2A:1637:C:H6	1.64	0.62
1:2A:1688:G:O2'	1:2A:1689:G:H5'	1.98	0.62
1:2A:1951:G:O2'	1:2A:1989:G:O6	2.05	0.62
1:2A:2135:A:H3'	1:2A:2136:G:C8	2.35	0.62
1:2A:2359:U:H2'	1:2A:2360:G:H5'	1.79	0.62
1:2A:2458:G:N2	1:2A:2461:A:OP2	2.32	0.62
1:2A:2759:G:OP1	7:2H:138:LYS:NZ	2.25	0.62
5:2F:181:LEU:CD1	5:2F:186:ILE:HD11	2.28	0.62
6:2G:47:LYS:HD2	6:2G:81:LYS:O	1.99	0.62
7:2H:86:GLU:HA	7:2H:132:ARG:HA	1.81	0.62
13:2R:54:LEU:CB	13:2R:62:ALA:HB1	2.27	0.62
23:21:4:VAL:HG12	23:21:11:ARG:HD2	1.80	0.62
26:24:10:VAL:HB	26:24:11:PRO:HD2	1.80	0.62
32:2a:618:C:O2'	32:2a:619:G:H5'	1.98	0.62
34:2c:125:GLU:OE2	34:2c:190:ARG:N	2.26	0.62
37:2f:60:PHE:HE2	49:2r:78:LEU:HD21	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:180:C:O2'	1:1A:848:A:N3	2.29	0.62
1:1A:773:A:H2	3:1D:9:TYR:CD2	2.17	0.62
2:1B:83:G:H4'	25:13:52:HIS:CG	2.33	0.62
4:1E:7:VAL:HG12	4:1E:27:LEU:HB3	1.81	0.62
4:1E:54:GLN:HE22	4:1E:58:ARG:HD2	1.64	0.62
12:1Q:4:PRO:HD2	12:1Q:93:TYR:CE2	2.35	0.62
13:1R:71:GLN:NE2	59:1R:311:HOH:O	2.31	0.62
18:1W:45:TYR:HD2	18:1W:46:PHE:CE1	2.17	0.62
28:16:52:VAL:HG22	28:16:53:LYS:H	1.62	0.62
32:1a:246:A:H5'	32:1a:248:U:H1'	1.80	0.62
32:1a:250:G:H21	48:1q:16:GLN:NE2	1.97	0.62
32:1a:506:C:H5"	43:1l:120:TYR:OH	1.98	0.62
32:1a:640:C:H4'	46:1o:62:GLN:HE22	1.64	0.62
32:1a:1030:G:C2'	32:1a:1031:G:H5'	2.29	0.62
32:1a:1064:G:O2'	32:1a:1065:G:H5'	1.99	0.62
32:1a:1302:C:C2	50:1s:72:GLY:HA3	2.34	0.62
32:1a:1493:C:O2'	32:1a:1494:G:H5'	1.99	0.62
38:1g:103:TRP:CA	38:1g:106:GLN:HB3	2.22	0.62
39:1h:86:ILE:O	39:1h:88:LYS:HG3	1.99	0.62
43:1l:109:GLY:HA3	43:1l:121:GLY:O	1.99	0.62
1:2A:1024:G:H3'	1:2A:1025:A:H5"	1.82	0.62
1:2A:2284:A:O2'	1:2A:2285:A:H5'	1.99	0.62
2:2B:29:A:OP2	14:2S:32:LEU:HD23	2.00	0.62
9:2N:35:ARG:O	9:2N:42:TRP:NE1	2.30	0.62
11:2P:127:ALA:HB3	11:2P:130:PHE:CE1	2.30	0.62
13:2R:38:VAL:HB	13:2R:39:PRO:HD3	1.81	0.62
19:2X:65:ARG:HD3	19:2X:70:LEU:HD21	1.79	0.62
32:2a:58:G:H2'	32:2a:59:C:O4'	1.99	0.62
32:2a:771:A:H2'	32:2a:772:U:H5'	1.81	0.62
32:2a:1256:G:N2	32:2a:1257:A:H62	1.97	0.62
32:2a:1418:G:O6	32:2a:1445:G:N2	2.32	0.62
33:2b:27:LYS:CB	33:2b:194:PRO:HD2	2.29	0.62
35:2d:98:GLU:CD	35:2d:103:ASN:HD21	2.06	0.62
39:2h:20:TYR:CD1	39:2h:65:TYR:HE2	2.17	0.62
47:2p:20:VAL:HG22	47:2p:21:VAL:N	2.14	0.62
52:2u:18:TYR:HE2	52:2u:24:ARG:HG3	1.63	0.62
1:1A:241:C:OP2	30:18:5:LYS:NZ	2.26	0.62
1:1A:471:G:OP1	59:1A:4319:HOH:O	2.16	0.62
1:1A:1132:G:H2'	1:1A:1134:G:C4'	2.30	0.62
1:1A:1613:A:H3'	3:1D:86:PRO:HG3	1.82	0.62
1:1A:1659:A:OP1	1:1A:1662:C:N4	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2657:C:OP2	1:1A:2744:G:O2'	2.16	0.62
5:1F:178:PRO:HB3	5:1F:198:ALA:CB	2.30	0.62
10:1O:63:VAL:HG12	10:1O:106:LEU:HD11	1.80	0.62
26:14:16:CYS:HA	26:14:33:VAL:CG2	2.29	0.62
32:1a:152:G:O2'	32:1a:153:G:H5'	1.98	0.62
32:1a:1199:C:OP1	45:1n:9:LYS:HE3	2.00	0.62
34:1c:58:GLU:O	34:1c:65:ALA:N	2.29	0.62
37:1f:82:ARG:HB2	37:1f:85:VAL:HG23	1.81	0.62
38:1g:68:ASN:ND2	38:1g:127:ALA:O	2.32	0.62
1:2A:265:C:H42	1:2A:277:G:H1	1.46	0.62
1:2A:775:G:O4'	3:2D:208:LYS:NZ	2.30	0.62
1:2A:1577:C:H2'	1:2A:1578:C:H5'	1.80	0.62
1:2A:2359:U:C2'	1:2A:2360:G:H5'	2.29	0.62
1:2A:2582:C:O2'	4:2E:146:THR:O	2.15	0.62
1:2A:2760:A:H5'	7:2H:4:ILE:CD1	2.30	0.62
10:2O:22:ILE:HD11	10:2O:40:VAL:HG12	1.81	0.62
10:2O:101:PRO:HG3	15:2T:67:SER:OG	1.99	0.62
10:2O:104:ARG:NH1	15:2T:34:VAL:HG13	2.15	0.62
11:2P:130:PHE:CE2	11:2P:145:PRO:HB3	2.34	0.62
18:2W:6:ILE:HG12	18:2W:104:THR:OG1	2.00	0.62
18:2W:56:ALA:HB1	18:2W:60:ASN:HD22	1.64	0.62
18:2W:68:ARG:HH11	18:2W:111:HIS:HA	1.62	0.62
32:2a:954:G:OP2	32:2a:1340:U:O2'	2.17	0.62
32:2a:1270:A:O2'	52:2u:10:ARG:NH1	2.32	0.62
32:2a:1307:C:C2'	32:2a:1308:C:H5'	2.29	0.62
32:2a:1362:G:P	38:2g:6:ARG:HH21	2.20	0.62
36:2e:145:LYS:O	36:2e:149:GLU:HG3	1.99	0.62
37:2f:1:MET:N	37:2f:69:GLU:OE1	2.31	0.62
41:2j:50:ILE:HG12	41:2j:60:ARG:NE	2.15	0.62
46:2o:71:GLN:O	46:2o:75:PRO:HG3	1.98	0.62
1:1A:559:C:O2'	16:1U:53:ARG:HG2	1.99	0.62
1:1A:1203:C:O2'	1:1A:1204:U:H5'	2.00	0.62
1:1A:1619:G:H2'	1:1A:1620:C:H5'	1.81	0.62
1:1A:2272:C:O2'	1:1A:2273:U:H5'	1.99	0.62
7:1H:12:PRO:O	7:1H:15:VAL:HG22	1.98	0.62
7:1H:154:PRO:HB3	7:1H:163:TYR:CZ	2.34	0.62
17:1V:21:ARG:HD3	17:1V:91:TYR:HD2	1.64	0.62
18:1W:17:VAL:CG2	18:1W:76:VAL:HG11	2.30	0.62
21:1Z:30:ASN:OD1	21:1Z:33:LEU:HD23	1.99	0.62
32:1a:100:C:O2'	32:1a:101:G:H5'	1.98	0.62
32:1a:425:U:H3'	35:1d:9:CYS:SG	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:471:U:H2'	32:1a:472:A:C8	2.34	0.62
32:1a:608:C:H4'	47:1p:10:GLY:O	2.00	0.62
32:1a:1329:G:O2'	32:1a:1330:U:OP2	2.15	0.62
33:1b:155:LEU:HD21	33:1b:159:PRO:HG3	1.82	0.62
34:1c:186:PHE:HD1	34:1c:198:VAL:O	1.83	0.62
36:1e:6:PHE:CD1	36:1e:36:ASP:HB3	2.35	0.62
41:1j:57:LYS:HG3	41:1j:60:ARG:HH21	1.65	0.62
51:1t:63:ILE:HG22	51:1t:77:ALA:HB1	1.82	0.62
1:2A:1101:G:N2	1:2A:1147:C:OP2	2.26	0.62
1:2A:1547:C:O2'	1:2A:1548:U:H5'	2.00	0.62
1:2A:2652:G:H1	1:2A:2785:C:H42	1.48	0.62
1:2A:2832:A:OP1	4:2E:159:HIS:NE2	2.31	0.62
6:2G:94:LEU:HD22	6:2G:98:ARG:CB	2.24	0.62
7:2H:158:HIS:O	7:2H:160:LYS:N	2.32	0.62
9:2N:128:HIS:O	9:2N:131:GLN:NE2	2.33	0.62
14:2S:49:VAL:HG12	14:2S:73:LEU:CD1	2.23	0.62
16:2U:47:TYR:HA	16:2U:50:ARG:NH2	2.14	0.62
32:2a:399:C:H4'	35:2d:122:ARG:HH11	1.65	0.62
32:2a:1097:C:O2'	32:2a:1098:C:H5'	2.00	0.62
32:2a:1210:C:OP2	44:2m:111:LYS:HD3	1.99	0.62
32:2a:1274:U:C3'	32:2a:1275:G:H5"	2.28	0.62
34:2c:150:LYS:O	34:2c:201:TYR:HB2	1.99	0.62
38:2g:95:ARG:HG2	38:2g:99:LEU:CD1	2.30	0.62
39:2h:26:VAL:O	39:2h:59:LEU:N	2.28	0.62
43:2l:83:VAL:HG22	43:2l:84:LEU:H	1.64	0.62
44:2m:20:THR:HA	44:2m:25:ILE:CG2	2.29	0.62
1:1A:324:G:OP2	20:1Y:84:ARG:NH2	2.32	0.62
1:1A:325:C:O2'	1:1A:326:U:H5'	1.99	0.62
1:1A:1090:A:H1'	1:1A:1092:G:N3	2.14	0.62
1:1A:1162:G:O2'	1:1A:1163:C:H5'	2.00	0.62
1:1A:1632:A:H2'	1:1A:1633:C:C6	2.35	0.62
1:1A:1784:C:H6	15:1T:96:ARG:HH12	1.45	0.62
1:1A:2652:G:O3'	9:1N:76:SER:HB2	2.00	0.62
4:1E:52:LEU:O	4:1E:76:ARG:N	2.33	0.62
4:1E:143:ASN:HD22	4:1E:147:PRO:CD	2.11	0.62
6:1G:34:LEU:HD12	6:1G:100:TRP:CZ3	2.34	0.62
9:1N:67:LEU:C	9:1N:88:GLU:HG3	2.25	0.62
11:1P:65:ARG:HD3	30:18:25:MET:HG3	1.81	0.62
18:1W:37:ARG:NE	18:1W:38:TYR:HE1	1.96	0.62
24:12:11:GLU:O	24:12:15:LYS:HG3	1.98	0.62
25:13:50:VAL:O	25:13:53:LEU:N	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:8:LYS:HE3	26:14:10:VAL:CG1	2.29	0.62
32:1a:225:U:H2'	32:1a:226:G:H8	1.63	0.62
32:1a:506:C:OP2	43:1l:69:TYR:OH	2.17	0.62
32:1a:612:G:H2'	32:1a:613:G:C8	2.34	0.62
32:1a:1263:U:H2'	32:1a:1264:C:C6	2.34	0.62
33:1b:103:THR:HG23	33:1b:176:GLU:CB	2.29	0.62
34:1c:138:VAL:CG1	34:1c:170:GLN:HB3	2.30	0.62
35:1d:162:LEU:CD1	35:1d:181:MET:HE2	2.30	0.62
43:1l:81:SER:O	43:1l:83:VAL:HG23	2.00	0.62
49:1r:22:VAL:O	49:1r:25:THR:OG1	2.13	0.62
1:2A:1052:C:H5"	9:2N:35:ARG:NH1	2.14	0.62
1:2A:1187:A:H4'	1:2A:1188:A:OP1	1.99	0.62
1:2A:1207:G:O2'	1:2A:1208:G:H5'	2.00	0.62
1:2A:1765:G:O6	1:2A:1767:U:H5"	2.00	0.62
1:2A:2017:C:H4'	1:2A:2018:G:OP1	1.99	0.62
1:2A:2367:C:H2'	1:2A:2368:U:O4'	1.99	0.62
2:2B:43:C:O4'	6:2G:66:GLN:NE2	2.32	0.62
2:2B:114:C:H2'	2:2B:115:G:H8	1.65	0.62
14:2S:51:ALA:CB	14:2S:73:LEU:HB2	2.30	0.62
32:2a:143:G:H1	32:2a:169:C:H42	1.45	0.62
32:2a:403:G:H2'	32:2a:404:A:C8	2.34	0.62
32:2a:1037:C:H4'	32:2a:1038:A:H5"	1.82	0.62
32:2a:1228:C:H2'	32:2a:1229:U:C6	2.34	0.62
32:2a:1291:G:H2'	32:2a:1292:G:O4'	1.99	0.62
35:2d:106:TYR:CD2	35:2d:114:ARG:HG3	2.34	0.62
1:1A:566:C:O2'	1:1A:567:C:H5'	1.99	0.62
1:1A:907:A:N3	2:1B:79:C:O2'	2.31	0.62
1:1A:909:A:H2'	1:1A:910:G:C8	2.35	0.62
1:1A:992:G:OP2	59:1A:4326:HOH:O	2.16	0.62
1:1A:1029:A:H5"	1:1A:1030:C:H5	1.64	0.62
1:1A:1182:G:H2'	1:1A:1183:G:O4'	1.99	0.62
1:1A:2053:G:OP2	1:1A:2465:G:O2'	2.14	0.62
1:1A:2588:A:H5"	1:1A:2589:G:H5'	1.82	0.62
5:1F:33:LEU:HD11	5:1F:112:MET:CB	2.29	0.62
5:1F:107:LYS:HG3	5:1F:206:ILE:HA	1.82	0.62
20:1Y:6:HIS:ND1	20:1Y:7:VAL:HG23	2.14	0.62
32:1a:483:A:H1'	32:1a:484:G:C8	2.35	0.62
32:1a:672:G:H2'	32:1a:673:C:H6	1.64	0.62
32:1a:937:A:H2'	32:1a:938:U:C4'	2.30	0.62
33:1b:161:ALA:HA	33:1b:183:PRO:O	1.98	0.62
40:1i:28:VAL:HG22	40:1i:63:ILE:HB	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:1i:69:GLY:O	40:1i:73:GLN:HG3	1.99	0.62
1:2A:486:C:O2'	1:2A:487:C:H5'	1.99	0.62
1:2A:1069:G:OP2	59:2A:3780:HOH:O	2.16	0.62
1:2A:1124:C:H3'	1:2A:1125:C:H5"	1.82	0.62
1:2A:1737:C:C2'	1:2A:1738:U:H5'	2.28	0.62
2:2B:105:A:H4'	21:2Z:29:TYR:HE2	1.64	0.62
7:2H:129:THR:HG22	7:2H:129:THR:O	2.00	0.62
13:2R:57:ARG:O	13:2R:59:ASP:N	2.32	0.62
17:2V:40:LEU:HD12	17:2V:46:VAL:HG11	1.81	0.62
18:2W:88:ARG:HG3	18:2W:94:ASP:OD2	1.99	0.62
22:20:43:THR:HG23	22:20:43:THR:O	2.00	0.62
30:28:33:ASN:OD1	30:28:36:LYS:NZ	2.25	0.62
32:2a:220:C:H2'	32:2a:221:C:H6	1.65	0.62
40:2i:78:LYS:O	40:2i:81:ILE:HG22	1.98	0.62
41:2j:46:ARG:C	41:2j:47:PHE:HD1	2.08	0.62
44:2m:4:ILE:HD11	44:2m:60:VAL:HG11	1.80	0.62
46:2o:55:GLY:HA2	46:2o:58:MET:CE	2.25	0.62
48:2q:19:VAL:CG2	48:2q:44:ALA:HB3	2.29	0.62
1:1A:108:A:O2'	24:12:65:ASN:ND2	2.32	0.62
1:1A:445:C:H2'	1:1A:446:C:O4'	1.98	0.62
1:1A:879:U:O2	11:1P:55:ARG:NH2	2.33	0.62
1:1A:992:G:O2'	1:1A:993:C:H5'	2.00	0.62
1:1A:1217:G:HO2'	1:1A:1218:A:C5'	2.13	0.62
1:1A:1424:A:H4'	1:1A:1425:G:OP2	2.00	0.62
4:1E:111:ARG:CA	13:1R:1:MET:HE2	2.29	0.62
6:1G:11:TYR:HA	6:1G:15:VAL:HB	1.82	0.62
6:1G:106:LEU:HD12	6:1G:110:ALA:CB	2.29	0.62
9:1N:99:LEU:HD22	9:1N:122:VAL:HG21	1.80	0.62
32:1a:350:G:H21	32:1a:384:G:C2'	2.12	0.62
32:1a:658:G:H5'	37:1f:50:TYR:HE2	1.65	0.62
34:1c:5:ILE:HD11	41:1j:61:GLU:OE2	2.00	0.62
34:1c:63:ASN:HA	34:1c:98:ASN:HB2	1.80	0.62
34:1c:179:ARG:O	34:1c:206:GLU:HB2	2.00	0.62
35:1d:77:ASN:O	35:1d:81:GLU:N	2.28	0.62
39:1h:23:SER:HA	39:1h:63:LEU:HD13	1.80	0.62
39:1h:124:ALA:O	39:1h:128:GLY:N	2.32	0.62
1:2A:10:G:H2'	1:2A:11:U:C5'	2.30	0.62
1:2A:899:G:H1	1:2A:969:C:H42	1.47	0.62
1:2A:904:U:O2	1:2A:2279:A:H2'	1.99	0.62
1:2A:1039:C:H3'	16:2U:54:LYS:NZ	2.15	0.62
1:2A:1920:G:H2'	1:2A:1920:G:N3	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:50:G:OP1	14:2S:63:THR:OG1	2.16	0.62
5:2F:178:PRO:HB2	5:2F:201:VAL:HG21	1.80	0.62
6:2G:3:LEU:HD13	26:24:25:TYR:CE2	2.34	0.62
11:2P:59:LEU:HD22	11:2P:60:MET:CE	2.29	0.62
19:2X:11:PRO:HD3	24:22:37:PHE:CE1	2.34	0.62
32:2a:124:G:C6	32:2a:189:U:H4'	2.35	0.62
32:2a:974:A:H2'	32:2a:975:U:O4'	1.99	0.62
32:2a:1059:C:H42	32:2a:1064:G:H1	1.48	0.62
32:2a:1442:G:O2'	32:2a:1443:C:H5'	2.00	0.62
33:2b:91:PRO:HB3	33:2b:155:LEU:HB2	1.80	0.62
1:1A:355:A:O2'	1:1A:357:C:OP2	2.16	0.62
1:1A:1426:G:N7	59:1A:4479:HOH:O	2.31	0.62
1:1A:2431:C:H5'	28:16:54:ILE:CD1	2.29	0.62
1:1A:2576:A:H5"	1:1A:2577:A:OP2	1.99	0.62
5:1F:20:LEU:HD23	5:1F:21:ALA:N	2.14	0.62
9:1N:24:GLY:O	9:1N:28:THR:HG23	2.00	0.62
10:1O:16:ALA:HB2	10:1O:52:VAL:CG2	2.29	0.62
18:1W:23:LEU:HD11	27:15:27:PRO:HB3	1.82	0.62
19:1X:4:ALA:CB	19:1X:42:ALA:HA	2.30	0.62
32:1a:179:G:C4'	32:1a:220:C:H4'	2.29	0.62
32:1a:1021:C:H2'	32:1a:1022:C:C6	2.35	0.62
32:1a:1069:U:C2'	32:1a:1070:G:H5'	2.30	0.62
32:1a:1237:G:O2'	32:1a:1240:G:N3	2.28	0.62
34:1c:24:ALA:HB2	34:1c:32:LEU:CD1	2.29	0.62
34:1c:63:ASN:CA	34:1c:98:ASN:HB2	2.30	0.62
35:1d:20:TYR:HA	35:1d:26:CYS:SG	2.40	0.62
38:1g:89:MET:SD	38:1g:155:ARG:HB2	2.39	0.62
40:1i:85:LEU:O	40:1i:89:ASN:N	2.32	0.62
44:1m:49:THR:O	44:1m:53:VAL:HG23	2.00	0.62
45:1n:9:LYS:O	45:1n:12:ARG:HG3	1.99	0.62
46:1o:81:LEU:O	46:1o:84:LYS:N	2.33	0.62
50:1s:20:LEU:HA	50:1s:23:ASN:HD22	1.64	0.62
1:2A:439:C:O2'	1:2A:1901:C:H1'	2.00	0.62
1:2A:629:U:O2'	1:2A:630:A:H5'	1.99	0.62
1:2A:810:A:H5'	3:2D:210:GLY:CA	2.30	0.62
1:2A:1359:C:H42	1:2A:1383:G:H1	1.45	0.62
1:2A:1884:A:H2'	1:2A:1885:G:H5'	1.81	0.62
1:2A:1970:G:O2'	32:2a:1402:G:O2'	2.18	0.62
1:2A:2155:A:N7	1:2A:2178:G:H5'	2.15	0.62
1:2A:2193:U:H4'	1:2A:2194:A:OP2	1.99	0.62
1:2A:2313:G:O2'	1:2A:2314:G:H5'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2631:C:O2'	4:2E:119:ARG:NH1	2.33	0.62
3:2D:162:SER:HB3	3:2D:195:ALA:CB	2.29	0.62
3:2D:165:ILE:HA	3:2D:175:LEU:HD23	1.81	0.62
3:2D:181:GLU:HA	3:2D:272:ALA:O	1.98	0.62
4:2E:47:VAL:HG11	4:2E:86:PRO:HD2	1.81	0.62
4:2E:48:GLN:NE2	4:2E:78:LEU:HG	2.14	0.62
7:2H:133:VAL:CG1	7:2H:141:VAL:HG13	2.30	0.62
11:2P:112:LEU:HD23	11:2P:113:LYS:N	2.15	0.62
15:2T:41:ARG:NH1	32:2a:342:G:OP1	2.32	0.62
20:2Y:13:VAL:HB	20:2Y:72:VAL:HG13	1.80	0.62
33:2b:118:LEU:HB3	33:2b:142:LEU:HD12	1.82	0.62
35:2d:52:SER:O	35:2d:56:VAL:HG23	1.99	0.62
36:2e:84:PHE:HB3	36:2e:134:ALA:HB2	1.82	0.62
49:2r:74:ARG:HD3	49:2r:81:PHE:CD1	2.34	0.62
1:1A:393:C:O2'	1:1A:394:C:H5'	1.99	0.62
1:1A:576:U:O2'	1:1A:577:U:H5'	2.00	0.62
1:1A:847:G:O6	5:1F:53:THR:OG1	2.18	0.62
1:1A:1516:G:N2	1:1A:1567:G:OP2	2.32	0.62
1:1A:1918:G:H2'	1:1A:1919:U:O4'	2.00	0.62
1:1A:2156:A:C2	1:1A:2157:C:H1'	2.35	0.62
1:1A:2541:A:O2'	1:1A:2543:G:OP2	2.07	0.62
1:1A:2852:G:O2'	1:1A:2853:G:H5'	1.99	0.62
8:1I:77:LEU:CD2	8:1I:97:ILE:HG23	2.30	0.62
21:1Z:7:ALA:HB2	21:1Z:59:LEU:HD22	1.82	0.62
32:1a:22:G:H2'	32:1a:23:G:C8	2.35	0.62
32:1a:47:G:H1	32:1a:391:C:H42	1.48	0.62
32:1a:843:A:H2'	32:1a:844:C:C6	2.35	0.62
32:1a:961:A:H5"	32:1a:962:C:OP2	2.00	0.62
32:1a:993:A:H5'	50:1s:14:HIS:ND1	2.15	0.62
32:1a:1198:G:H5"	45:1n:5:ALA:CB	2.30	0.62
32:1a:1415:G:O6	59:1a:2049:HOH:O	2.12	0.62
33:1b:197:VAL:CG1	33:1b:200:ILE:HG13	2.29	0.62
38:1g:121:ALA:HA	38:1g:124:LEU:HD12	1.82	0.62
39:1h:40:ALA:HB2	39:1h:45:ILE:HG13	1.81	0.62
44:1m:39:ILE:CD1	44:1m:56:LEU:HB2	2.30	0.62
45:1n:14:PRO:HB2	45:1n:16:PHE:O	2.00	0.62
1:2A:154:C:N4	1:2A:159:G:H1	1.97	0.62
1:2A:895:A:N3	25:23:21:ALA:HB1	2.15	0.62
1:2A:900:G:H2'	1:2A:901:G:H8	1.65	0.62
1:2A:1075:G:H2'	1:2A:1076:G:C8	2.34	0.62
1:2A:1584:G:H2'	1:2A:1585:G:C8	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1959:A:OP2	59:2A:3863:HOH:O	2.16	0.62
1:2A:2211:G:O2'	1:2A:2212:G:H5'	2.00	0.62
1:2A:2693:U:O4'	4:2E:12:THR:HA	2.00	0.62
5:2F:129:PHE:HB2	5:2F:132:VAL:CG2	2.27	0.62
7:2H:17:VAL:HG22	7:2H:26:VAL:HG22	1.82	0.62
13:2R:12:ARG:HD2	13:2R:20:LEU:HD22	1.81	0.62
19:2X:68:ARG:HB3	19:2X:69:TYR:CD1	2.35	0.62
32:2a:33:A:H2'	32:2a:34:A:C8	2.35	0.62
32:2a:528:G:P	35:2d:59:ARG:HH22	2.22	0.62
32:2a:647:A:O2'	32:2a:648:G:H5'	2.00	0.62
32:2a:767:C:O2'	32:2a:768:C:H5'	2.00	0.62
34:2c:8:ILE:HD11	34:2c:184:TYR:HB3	1.81	0.62
34:2c:70:VAL:HG22	34:2c:72:LYS:H	1.63	0.62
46:2o:62:GLN:HE21	46:2o:66:LEU:HD11	1.65	0.62
50:2s:3:ARG:NE	50:2s:10:PHE:HB2	2.14	0.62
52:2u:12:LYS:HD2	52:2u:22:ARG:HB3	1.81	0.62
1:1A:150:C:O2'	1:1A:151:G:H5'	2.00	0.61
1:1A:1185:U:H4'	1:1A:1187:A:O4'	1.99	0.61
1:1A:1624:U:C2'	1:1A:1625:A:H5'	2.28	0.61
1:1A:1922:A:OP2	3:1D:255:LYS:NZ	2.25	0.61
1:1A:2083:A:H2'	1:1A:2084:C:C5'	2.30	0.61
1:1A:2345:G:H5'	14:1S:9:ARG:HG2	1.82	0.61
1:1A:2575:A:H5"	1:1A:2576:A:OP2	1.99	0.61
4:1E:5:LEU:CD2	4:1E:79:ARG:HB2	2.29	0.61
5:1F:185:ASP:OD1	59:1F:410:HOH:O	2.16	0.61
6:1G:107:LEU:HD11	6:1G:178:PHE:CD1	2.35	0.61
8:1I:48:GLU:O	8:1I:52:ARG:NH2	2.33	0.61
10:1O:21:CYS:HA	10:1O:41:ALA:HB2	1.82	0.61
12:1Q:34:LEU:CD1	12:1Q:129:THR:HB	2.30	0.61
12:1Q:74:TYR:HB3	12:1Q:92:GLY:O	2.00	0.61
14:1S:34:HIS:HB2	14:1S:36:TYR:HE1	1.63	0.61
19:1X:68:ARG:C	19:1X:69:TYR:HD1	2.06	0.61
21:1Z:7:ALA:C	21:1Z:8:TYR:HD1	2.06	0.61
30:18:14:VAL:HG22	30:18:15:LYS:N	2.14	0.61
32:1a:60:A:N6	32:1a:327:G:H1'	2.14	0.61
32:1a:94:C:H2'	32:1a:95:A:C8	2.35	0.61
32:1a:293:G:N2	32:1a:296:A:OP2	2.33	0.61
32:1a:542:G:O5'	32:1a:543:A:H3'	2.00	0.61
32:1a:691:C:O2	42:1k:39:PRO:HD3	2.00	0.61
32:1a:715:G:O2'	32:1a:716:C:H5'	1.99	0.61
32:1a:918:C:O2'	32:1a:919:G:H5'	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:930:U:H2'	32:1a:931:G:H8	1.65	0.61
32:1a:1160:G:H2'	32:1a:1161:A:H5"	1.80	0.61
32:1a:1299:C:C2	45:1n:16:PHE:HE2	2.18	0.61
33:1b:80:ILE:HD11	33:1b:208:ILE:HB	1.82	0.61
47:1p:39:TYR:CE2	47:1p:41:PRO:HB3	2.35	0.61
50:1s:32:LYS:HG2	50:1s:50:ALA:HB3	1.81	0.61
52:1u:6:ARG:O	52:1u:8:THR:N	2.31	0.61
1:2A:495:A:OP1	5:2F:59:TYR:HE1	1.82	0.61
1:2A:524:G:N1	1:2A:527:A:OP2	2.32	0.61
1:2A:775:G:C5	3:2D:208:LYS:HB2	2.34	0.61
1:2A:775:G:C8	3:2D:208:LYS:HD2	2.35	0.61
1:2A:830:A:N6	1:2A:2093:G:O2'	2.32	0.61
1:2A:1182:G:N2	9:2N:106:MET:HE2	2.15	0.61
1:2A:1234:G:O2'	1:2A:1235:G:H5'	1.99	0.61
1:2A:2691:C:OP1	4:2E:109:LYS:HG3	1.99	0.61
1:2A:2777:A:H3'	1:2A:2777:A:N3	2.15	0.61
2:2B:79:C:H42	2:2B:98:G:H1	1.48	0.61
4:2E:93:VAL:HG13	59:2E:410:HOH:O	1.99	0.61
11:2P:5:ASP:HA	11:2P:7:ARG:NH2	2.14	0.61
18:2W:14:PRO:O	18:2W:17:VAL:N	2.32	0.61
21:2Z:47:VAL:O	21:2Z:51:ALA:N	2.28	0.61
21:2Z:100:VAL:O	21:2Z:123:ASP:HA	2.00	0.61
23:21:6:GLU:OE1	23:21:91:LYS:NZ	2.29	0.61
32:2a:319:U:H4'	51:2t:22:ARG:HB2	1.82	0.61
32:2a:571:G:OP1	39:2h:89:PRO:HB3	2.00	0.61
32:2a:582:U:H4'	39:2h:94:TYR:CG	2.34	0.61
32:2a:651:G:H4'	46:2o:51:HIS:CE1	2.35	0.61
32:2a:957:C:C2'	32:2a:958:C:H5'	2.29	0.61
32:2a:1474:C:H2'	32:2a:1475:G:C1'	2.30	0.61
34:2c:70:VAL:O	34:2c:73:PRO:HG3	2.00	0.61
34:2c:150:LYS:HD3	34:2c:169:ALA:HB2	1.82	0.61
39:2h:100:ILE:HG22	39:2h:125:ARG:NH1	2.14	0.61
40:2i:112:LYS:NZ	40:2i:113:LYS:O	2.32	0.61
40:2i:114:TYR:CG	41:2j:60:ARG:HB2	2.35	0.61
1:1A:718:C:C2'	1:1A:719:C:H5'	2.31	0.61
1:1A:953:C:OP2	59:1A:4324:HOH:O	2.16	0.61
1:1A:1219:U:HO2'	1:1A:1220:G:P	2.23	0.61
1:1A:1874:C:H2'	1:1A:1875:G:H8	1.64	0.61
1:1A:2148:G:N2	1:1A:2182:C:N3	2.43	0.61
1:1A:2507:C:H2'	1:1A:2508:A:H5'	1.81	0.61
1:1A:2555:G:O6	59:1A:4316:HOH:O	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:53:THR:HG22	5:1F:56:GLU:CG	2.30	0.61
25:13:6:VAL:CG1	25:13:28:LEU:HD11	2.31	0.61
32:1a:62:G:H2'	32:1a:63:U:C6	2.35	0.61
32:1a:214:C:C2'	32:1a:215:C:H5'	2.30	0.61
32:1a:230:C:O2'	32:1a:231:C:H5'	2.00	0.61
32:1a:402:G:N2	35:1d:119:GLN:HE22	1.98	0.61
32:1a:404:A:H5'	35:1d:116:GLN:HG3	1.82	0.61
32:1a:447:A:O3'	47:1p:72:ARG:HD2	2.00	0.61
32:1a:891:A:H4'	32:1a:892:A:O5'	1.99	0.61
33:1b:177:ALA:O	33:1b:180:LEU:N	2.32	0.61
36:1e:78:HIS:HB2	39:1h:104:ARG:HD2	1.81	0.61
40:1i:117:HIS:NE2	40:1i:123:PRO:HB3	2.15	0.61
44:1m:94:ARG:NH1	50:1s:80:TYR:HD2	1.97	0.61
47:1p:4:ILE:O	47:1p:66:PRO:HA	2.00	0.61
1:2A:774:G:H5"	3:2D:13:ARG:NH2	2.15	0.61
1:2A:817:G:OP1	29:27:14:LYS:HE2	2.00	0.61
1:2A:1732:C:H2'	1:2A:1733:G:O4'	1.99	0.61
1:2A:2101:G:OP1	23:21:35:THR:HG21	2.00	0.61
1:2A:2130:U:N3	1:2A:2131:G:O6	2.33	0.61
4:2E:67:PHE:CE1	4:2E:75:VAL:HG12	2.35	0.61
4:2E:111:ARG:HD2	4:2E:160:TYR:CD2	2.34	0.61
4:2E:152:LYS:HB3	9:2N:78:TYR:CE1	2.34	0.61
6:2G:107:LEU:HD23	6:2G:111:LEU:HD11	1.81	0.61
12:2Q:109:VAL:HG22	12:2Q:113:GLN:OE1	2.00	0.61
13:2R:109:ALA:O	13:2R:111:LEU:HD22	1.99	0.61
24:22:19:VAL:CG1	24:22:23:LYS:HE3	2.30	0.61
24:22:35:LEU:HD11	24:22:53:LEU:HD12	1.82	0.61
32:2a:610:U:H4'	47:2p:38:TYR:CE2	2.34	0.61
32:2a:664:C:H42	32:2a:694:G:H1	1.49	0.61
32:2a:733:C:O2'	32:2a:734:G:H5'	2.00	0.61
32:2a:970:U:H1'	32:2a:971:G:OP2	1.99	0.61
32:2a:1099:C:H2'	32:2a:1100:G:O4'	1.99	0.61
32:2a:1296:C:N4	50:2s:2:PRO:O	2.28	0.61
33:2b:223:ILE:HD12	33:2b:224:GLN:N	2.14	0.61
34:2c:173:VAL:HG12	34:2c:175:LEU:CD1	2.31	0.61
37:2f:82:ARG:HB2	37:2f:85:VAL:HG23	1.81	0.61
40:2i:78:LYS:C	40:2i:81:ILE:HG22	2.26	0.61
41:2j:39:PRO:HB3	41:2j:70:ARG:HH12	1.65	0.61
44:2m:78:ILE:CG2	44:2m:82:MET:HE3	2.29	0.61
47:2p:1:MET:O	47:2p:24:ALA:HB2	2.00	0.61
1:1A:594:A:H5"	1:1A:595:G:OP2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:897:U:O2'	25:13:45:GLY:HA3	2.00	0.61
1:1A:1545:G:N2	3:1D:99:ASP:O	2.33	0.61
1:1A:1988:C:C2'	1:1A:1989:G:H5'	2.29	0.61
4:1E:34:VAL:CG1	4:1E:72:VAL:HG11	2.28	0.61
6:1G:7:LEU:HD12	6:1G:104:GLU:HB2	1.81	0.61
9:1N:21:LYS:HD3	9:1N:26:LEU:HD13	1.80	0.61
10:1O:122:LEU:HD23	15:1T:43:GLN:HE22	1.65	0.61
13:1R:61:HIS:N	59:1R:310:HOH:O	2.25	0.61
16:1U:52:ARG:HG3	16:1U:55:ARG:HG3	1.82	0.61
30:18:14:VAL:CG2	30:18:22:VAL:HG13	2.26	0.61
32:1a:317:A:H2'	32:1a:318:C:C6	2.35	0.61
32:1a:442:G:H2'	32:1a:470:G:N2	2.14	0.61
32:1a:551:G:H2'	32:1a:552:G:O4'	1.99	0.61
32:1a:942:A:H5'	32:1a:1181:U:OP1	1.99	0.61
32:1a:1027:A:C5	32:1a:1028:C:H1'	2.36	0.61
32:1a:1190:C:H2'	32:1a:1191:C:C6	2.34	0.61
32:1a:1259:C:HO2'	32:1a:1261:A:H1'	1.64	0.61
33:1b:28:PHE:CD2	33:1b:190:THR:HA	2.36	0.61
33:1b:100:GLY:HA2	33:1b:103:THR:OG1	2.00	0.61
33:1b:208:ILE:HA	33:1b:211:ILE:HB	1.82	0.61
35:1d:190:ASP:N	35:1d:193:ASP:OD2	2.24	0.61
50:1s:33:THR:HG22	50:1s:51:VAL:HA	1.82	0.61
1:2A:37:A:H1'	5:2F:48:THR:HB	1.82	0.61
1:2A:1092:G:N2	1:2A:1156:A:H62	1.98	0.61
1:2A:1118:A:O2'	1:2A:1119:G:O5'	2.09	0.61
1:2A:1386:U:OP1	1:2A:1442:U:N3	2.32	0.61
1:2A:2043:U:O2'	1:2A:2627:C:O2'	2.09	0.61
1:2A:2758:U:C2'	1:2A:2759:G:H5'	2.29	0.61
6:2G:97:ASP:HA	6:2G:100:TRP:HD1	1.64	0.61
7:2H:18:GLU:HG2	7:2H:25:LYS:CB	2.31	0.61
8:2I:88:ILE:HD11	8:2I:144:VAL:HG11	1.82	0.61
11:2P:128:HIS:NE2	11:2P:148:LEU:HD11	2.14	0.61
12:2Q:103:MET:HE1	12:2Q:127:ILE:CD1	2.30	0.61
32:2a:150:C:H2'	32:2a:151:G:O4'	1.99	0.61
32:2a:382:C:H2'	32:2a:383:U:H5'	1.82	0.61
32:2a:505:G:OP1	43:2l:73:GLU:HA	2.00	0.61
32:2a:1103:G:O6	32:2a:1135:A:N6	2.32	0.61
32:2a:1300:A:N6	32:2a:1342:A:H61	1.97	0.61
32:2a:1393:G:O2'	32:2a:1394:C:H5'	2.01	0.61
32:2a:1451:A:H2'	32:2a:1452:G:C8	2.35	0.61
38:2g:135:VAL:O	38:2g:139:GLU:HG3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:22:HIS:HB3	42:2k:29:ILE:HB	1.82	0.61
51:2t:100:ILE:HG22	51:2t:101:GLY:N	2.15	0.61
1:1A:806:G:O2'	59:1A:4330:HOH:O	2.16	0.61
1:1A:1232:U:C4'	17:1V:79:VAL:HG13	2.29	0.61
1:1A:1625:A:O2'	1:1A:1626:A:O5'	2.15	0.61
1:1A:2401:U:P	30:18:35:GLN:HE22	2.23	0.61
3:1D:133:LEU:HB3	3:1D:173:VAL:HG21	1.82	0.61
3:1D:134:ARG:HG3	3:1D:135:PHE:CE1	2.36	0.61
3:1D:185:VAL:HG12	3:1D:186:HIS:N	2.14	0.61
11:1P:91:PHE:CE2	11:1P:100:LEU:HD23	2.35	0.61
18:1W:36:LEU:HD13	18:1W:48:ALA:HA	1.81	0.61
25:13:18:ASP:OD1	25:13:19:GLN:N	2.33	0.61
33:1b:194:PRO:O	33:1b:197:VAL:N	2.30	0.61
38:1g:50:ILE:CD1	38:1g:58:PRO:HB3	2.28	0.61
38:1g:122:HIS:HA	38:1g:125:MET:HE2	1.82	0.61
44:1m:90:LEU:HA	44:1m:93:ARG:HB2	1.81	0.61
47:1p:71:ARG:O	47:1p:75:ARG:HG3	2.00	0.61
1:2A:10:G:O6	59:2A:3847:HOH:O	2.14	0.61
1:2A:241:C:H2'	1:2A:242:G:H5'	1.82	0.61
1:2A:413:U:O2'	59:2A:3866:HOH:O	2.16	0.61
1:2A:468:A:N6	5:2F:41:LEU:O	2.32	0.61
1:2A:712:G:N2	30:28:2:PRO:O	2.34	0.61
1:2A:1112:A:H4'	1:2A:1113:G:OP2	1.98	0.61
1:2A:1577:C:C2'	1:2A:1578:C:H5'	2.30	0.61
1:2A:2031:G:O2'	1:2A:2032:U:H5'	2.00	0.61
1:2A:2086:C:H5'	1:2A:2262:OMG:HN22	1.64	0.61
1:2A:2226:G:H5"	1:2A:2227:G:C8	2.34	0.61
1:2A:2339:A:H2'	1:2A:2340:G:C8	2.34	0.61
5:2F:29:ASN:O	5:2F:33:LEU:HD13	2.01	0.61
7:2H:51:ARG:NH1	7:2H:53:GLU:OE2	2.33	0.61
21:2Z:104:PHE:HB3	21:2Z:141:VAL:CG1	2.31	0.61
21:2Z:108:PRO:HB3	21:2Z:144:LEU:HB2	1.80	0.61
24:22:17:SER:HB3	24:22:20:GLU:CG	2.30	0.61
32:2a:568:G:C5'	48:2q:91:ARG:HH22	2.12	0.61
32:2a:1006:C:C2	32:2a:1017:G:N1	2.69	0.61
32:2a:1065:G:O2'	32:2a:1066:U:H5'	2.00	0.61
34:2c:71:ALA:CB	34:2c:109:PRO:HG3	2.30	0.61
46:2o:43:LEU:CD1	46:2o:56:LEU:HD22	2.30	0.61
50:2s:49:ILE:HD13	50:2s:62:ILE:CD1	2.29	0.61
51:2t:56:MET:SD	51:2t:88:VAL:HG21	2.40	0.61
1:1A:378:G:C2'	1:1A:379:G:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1116:G:O2'	1:1A:1134:G:H2'	2.01	0.61
1:1A:2032:U:H2'	1:1A:2033:G:H5'	1.83	0.61
1:1A:2332:G:H5"	1:1A:2333:A:OP2	1.99	0.61
6:1G:181:ARG:HG3	6:1G:182:LYS:N	2.16	0.61
11:1P:71:VAL:CG2	11:1P:72:PRO:HA	2.30	0.61
14:1S:74:ALA:CB	14:1S:110:LEU:HD13	2.31	0.61
22:10:33:ALA:N	22:10:64:ASP:OD1	2.32	0.61
28:16:14:THR:HG21	28:16:48:VAL:HG13	1.83	0.61
32:1a:21:U:H2'	32:1a:22:G:O4'	2.01	0.61
32:1a:194:G:O2'	32:1a:195:U:H5'	2.00	0.61
32:1a:372:G:H5"	47:1p:5:ARG:HB2	1.82	0.61
32:1a:1026:C:C3'	32:1a:1027:A:H5"	2.30	0.61
32:1a:1031:G:OP1	45:1n:3:ARG:HB3	2.00	0.61
32:1a:1082:G:H2'	32:1a:1083:C:O4'	2.00	0.61
33:1b:15:VAL:HG11	33:1b:213:LEU:CD1	2.30	0.61
33:1b:50:GLU:O	33:1b:54:THR:N	2.25	0.61
36:1e:39:GLY:C	36:1e:69:VAL:HG22	2.26	0.61
36:1e:41:VAL:HG11	36:1e:113:ALA:HB2	1.81	0.61
36:1e:128:PRO:HA	36:1e:131:ILE:CG2	2.30	0.61
38:1g:73:MET:O	38:1g:142:GLU:HA	1.99	0.61
38:1g:113:GLU:OE2	38:1g:119:ARG:HA	2.00	0.61
44:1m:32:GLU:O	44:1m:36:LYS:HG2	2.00	0.61
47:1p:55:ARG:O	47:1p:58:TYR:HB3	2.01	0.61
1:2A:749:U:C2'	1:2A:750:G:H5'	2.30	0.61
1:2A:967:U:H2'	1:2A:968:C:H6	1.65	0.61
1:2A:984:G:H2'	1:2A:985:A:C4'	2.31	0.61
1:2A:1695:G:O2'	1:2A:1696:G:H5'	2.00	0.61
1:2A:2374:C:C2'	1:2A:2375:C:H5'	2.30	0.61
1:2A:2758:U:H2'	1:2A:2759:G:C5'	2.28	0.61
4:2E:134:ILE:HA	4:2E:137:HIS:CD2	2.28	0.61
32:2a:16:G:H1'	36:2e:19:MET:SD	2.40	0.61
32:2a:176:G:H1'	32:2a:177:U:H5	1.65	0.61
32:2a:807:G:O2'	32:2a:808:C:H5'	2.00	0.61
32:2a:961:A:H5'	32:2a:962:C:OP2	2.00	0.61
32:2a:978:U:O2'	32:2a:979:A:H5'	2.01	0.61
32:2a:1140:A:H1'	32:2a:1163:G:N2	2.15	0.61
32:2a:1326:C:O2'	32:2a:1327:U:H5'	2.00	0.61
34:2c:36:ASP:HA	34:2c:39:ILE:HD12	1.81	0.61
35:2d:31:CYS:SG	35:2d:33:MET:N	2.73	0.61
39:2h:119:LEU:HA	39:2h:123:GLU:OE1	1.99	0.61
42:2k:83:ILE:HG12	42:2k:109:VAL:CG1	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:97:ALA:O	42:2k:101:SER:HB3	1.99	0.61
1:1A:26:G:H22	1:1A:536:G:H1'	1.65	0.61
1:1A:172:C:O3'	1:1A:205:G:N2	2.30	0.61
1:1A:524:G:N1	1:1A:527:A:OP2	2.33	0.61
1:1A:774:G:C5'	3:1D:13:ARG:HH21	2.13	0.61
1:1A:910:G:O2'	1:1A:911:C:H5'	2.01	0.61
1:1A:1120:C:O2'	1:1A:1121:C:H2'	2.01	0.61
1:1A:1898:A:H5'	1:1A:1899:G:OP2	2.01	0.61
1:1A:2322:A:H3'	1:1A:2322:A:OP1	2.00	0.61
1:1A:2791:U:C4'	1:1A:2792:G:H5"	2.30	0.61
16:1U:52:ARG:O	16:1U:55:ARG:HG2	1.99	0.61
21:1Z:3:TYR:HE2	21:1Z:50:GLN:HB3	1.65	0.61
32:1a:32:G:H5'	32:1a:302:G:C2	2.36	0.61
32:1a:655:G:H2'	32:1a:656:U:H5'	1.81	0.61
32:1a:928:U:O4	32:1a:1213:G:O6	2.19	0.61
32:1a:953:A:H61	32:1a:1350:C:H1'	1.65	0.61
32:1a:974:A:H2'	32:1a:975:U:C6	2.36	0.61
32:1a:1154:C:O2'	32:1a:1155:G:H5'	2.01	0.61
32:1a:1299:C:H2'	32:1a:1300:A:O4'	2.00	0.61
38:1g:95:ARG:O	38:1g:99:LEU:N	2.32	0.61
38:1g:111:ARG:HD2	38:1g:123:GLU:CG	2.27	0.61
40:1i:49:PRO:HB3	40:1i:82:ALA:HB2	1.82	0.61
41:1j:42:THR:OG1	41:1j:68:HIS:ND1	2.34	0.61
41:1j:65:LEU:HD13	45:1n:56:VAL:CG2	2.30	0.61
44:1m:15:VAL:HG23	44:1m:16:ASP:N	2.14	0.61
1:2A:6:G:H5"	9:2N:121:LYS:NZ	2.16	0.61
1:2A:20:A:O2'	1:2A:21:C:H5'	2.00	0.61
1:2A:1038:G:OP1	16:2U:50:ARG:HD2	2.00	0.61
1:2A:1044:U:H3'	1:2A:1199:G:O6	2.00	0.61
1:2A:1381:A:H2'	1:2A:1382:G:C8	2.36	0.61
1:2A:1691:G:H5"	1:2A:1692:C:C5'	2.28	0.61
1:2A:2389:A:H3'	1:2A:2390:G:O4'	2.01	0.61
1:2A:2700:U:H1'	1:2A:2701:C:OP2	2.00	0.61
12:2Q:37:LEU:HD21	12:2Q:130:LYS:CD	2.26	0.61
32:2a:426:A:C2'	32:2a:427:A:H5'	2.31	0.61
32:2a:722:C:OP2	37:2f:92:LYS:HD2	2.01	0.61
32:2a:843:A:H5'	32:2a:1061:U:C5	2.35	0.61
32:2a:858:C:H2'	32:2a:859:G:C8	2.35	0.61
32:2a:860:C:O2'	32:2a:861:C:H5'	2.01	0.61
32:2a:1245:C:O2'	32:2a:1246:C:H5'	2.00	0.61
41:2j:49:VAL:CG2	45:2n:41:ARG:HB2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1054:A:OP1	9:1N:37:LYS:NZ	2.31	0.61
1:1A:2094:C:C5'	3:1D:229:VAL:HG22	2.30	0.61
5:1F:185:ASP:OD1	5:1F:188:ARG:NH1	2.27	0.61
6:1G:44:GLY:O	6:1G:47:LYS:HE2	2.01	0.61
6:1G:125:PHE:HB3	6:1G:166:ASP:OD1	2.01	0.61
32:1a:377:C:O2	59:1a:2052:HOH:O	2.14	0.61
32:1a:439:C:O2'	32:1a:440:G:H5'	2.01	0.61
32:1a:487:C:OP2	43:1l:116:SER:OG	2.18	0.61
32:1a:1448:G:O2'	32:1a:1449:G:H5'	2.01	0.61
35:1d:8:VAL:HG22	35:1d:21:LEU:CD1	2.31	0.61
37:1f:19:LEU:HD11	37:1f:59:TYR:CE2	2.35	0.61
1:2A:51:A:H2'	1:2A:52:G:H5'	1.83	0.61
1:2A:1125:C:H2'	1:2A:1126:U:O4'	2.01	0.61
1:2A:1512:G:O2'	1:2A:1592:C:O2'	2.06	0.61
1:2A:1772:C:O2'	1:2A:1773:C:H5'	2.00	0.61
1:2A:1784:C:H2'	1:2A:1785:A:O4'	2.01	0.61
1:2A:1857:C:H2'	1:2A:1858:G:H5'	1.81	0.61
1:2A:2044:G:H4'	1:2A:2628:C:O2'	2.01	0.61
1:2A:2390:G:OP1	14:2S:23:ARG:NH2	2.33	0.61
1:2A:2674:G:H2'	1:2A:2675:G:H5'	1.81	0.61
3:2D:12:SER:OG	3:2D:208:LYS:HB3	2.00	0.61
4:2E:15:PHE:HD2	15:2T:81:PRO:HD2	1.62	0.61
4:2E:67:PHE:HE1	4:2E:75:VAL:HG12	1.65	0.61
4:2E:94:GLU:OE2	4:2E:177:PRO:HB3	2.01	0.61
7:2H:52:VAL:HG12	7:2H:65:HIS:HD2	1.65	0.61
10:2O:99:PHE:N	10:2O:99:PHE:CD1	2.68	0.61
23:21:50:ARG:HA	23:21:59:THR:HA	1.83	0.61
29:27:16:HIS:HB2	29:27:44:PRO:HG2	1.82	0.61
32:2a:873:G:H1	32:2a:882:C:H42	1.49	0.61
32:2a:959:U:OP1	45:2n:9:LYS:NZ	2.18	0.61
32:2a:1105:U:C2'	32:2a:1106:A:H5'	2.30	0.61
32:2a:1130:C:O2'	40:2i:5:TYR:OH	2.13	0.61
32:2a:1385:4OC:HM22	32:2a:1386:C:H5'	1.83	0.61
36:2e:13:ILE:HA	36:2e:29:GLY:O	2.01	0.61
50:2s:40:ILE:HG13	50:2s:71:LEU:HD12	1.81	0.61
1:1A:890:C:C2'	1:1A:891:G:H5'	2.30	0.61
1:1A:1097:C:N3	1:1A:1152:G:N2	2.44	0.61
1:1A:1164:C:C2'	1:1A:1165:G:H5'	2.31	0.61
1:1A:1827:C:H42	1:1A:1852:G:H1	1.48	0.61
1:1A:2124:C:N4	1:1A:2207:G:H1	1.98	0.61
1:1A:2272:C:OP1	22:10:19:LYS:NZ	2.22	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1Q:43:THR:OG1	59:1Q:307:HOH:O	2.16	0.61
13:1R:96:ARG:NE	13:1R:115:GLU:OE2	2.32	0.61
32:1a:247:G:H4'	32:1a:248:U:O5'	2.00	0.61
32:1a:306:G:H5"	47:1p:31:LYS:HB2	1.81	0.61
32:1a:496:U:O2'	32:1a:497:C:H5'	1.99	0.61
32:1a:835:C:H2'	32:1a:836:G:O4'	2.01	0.61
32:1a:870:A:O2'	32:1a:871:C:H5'	2.01	0.61
32:1a:891:A:H1'	32:1a:892:A:OP2	1.99	0.61
32:1a:1496:MA6:C9	32:1a:1497:MA6:H92	2.30	0.61
33:1b:84:GLU:HB3	33:1b:219:VAL:HG21	1.83	0.61
33:1b:97:TRP:CZ2	33:1b:173:ALA:HA	2.36	0.61
36:1e:131:ILE:O	36:1e:135:THR:OG1	2.12	0.61
43:1l:117:ARG:NH1	43:1l:124:LYS:HA	2.16	0.61
47:1p:39:TYR:CD1	47:1p:73:LEU:HD11	2.36	0.61
1:2A:519:G:H1'	18:2W:57:ASN:ND2	2.15	0.61
1:2A:564:C:O2'	1:2A:565:C:H5'	2.01	0.61
1:2A:1940:A:H2'	1:2A:1941:OMC:H5"	1.82	0.61
1:2A:2287:G:O2'	1:2A:2288:G:H5'	2.01	0.61
10:2O:122:LEU:HD23	15:2T:43:GLN:HE22	1.66	0.61
17:2V:61:VAL:HG12	17:2V:94:LEU:CD2	2.31	0.61
19:2X:24:GLY:O	19:2X:82:GLN:HA	2.01	0.61
32:2a:276:C:N3	48:2q:39:SER:N	2.49	0.61
32:2a:805:G:O2'	32:2a:806:C:H5'	2.00	0.61
32:2a:1190:C:O2'	32:2a:1191:C:H5'	2.01	0.61
32:2a:1468:C:O2'	32:2a:1469:G:H5'	2.00	0.61
33:2b:35:GLU:HG3	33:2b:39:ILE:O	2.01	0.61
39:2h:86:ILE:HG12	39:2h:135:CYS:HA	1.81	0.61
44:2m:51:ALA:HA	44:2m:54:VAL:HG22	1.82	0.61
1:1A:605:G:OP2	16:1U:10:ARG:HD2	2.00	0.61
1:1A:800:C:H2'	1:1A:801:C:H6	1.66	0.61
1:1A:1457:A:H2'	1:1A:1458:G:C8	2.36	0.61
1:1A:2268:U:O2'	1:1A:2269:C:H5'	1.99	0.61
1:1A:2475:C:O2'	59:1A:4322:HOH:O	2.16	0.61
1:1A:2756:G:N2	7:1H:143:GLN:OE1	2.32	0.61
1:1A:2796:C:H1'	4:1E:37:ARG:HH12	1.66	0.61
3:1D:133:LEU:HB2	3:1D:187:GLY:HA2	1.80	0.61
7:1H:25:LYS:HE3	7:1H:27:LYS:HZ2	1.64	0.61
14:1S:15:ARG:NE	14:1S:88:ASP:OD2	2.34	0.61
16:1U:69:CYS:HB3	16:1U:74:LEU:HD12	1.81	0.61
20:1Y:77:PRO:HD2	20:1Y:106:LEU:HD23	1.81	0.61
32:1a:655:G:C2'	32:1a:656:U:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:719:C:O2'	32:1a:720:C:H5'	2.01	0.61
32:1a:982:G:N2	32:1a:983:A:N3	2.49	0.61
32:1a:1183:A:H4'	32:1a:1184:G:C5'	2.31	0.61
34:1c:12:LEU:HA	34:1c:16:ARG:O	2.01	0.61
37:1f:9:VAL:HG22	37:1f:60:PHE:CD1	2.35	0.61
1:2A:469:C:O2'	1:2A:470:C:H5'	2.01	0.61
1:2A:552:A:O2'	1:2A:553:A:H5'	2.01	0.61
1:2A:580:G:P	9:2N:111:PRO:HD2	2.40	0.61
1:2A:801:C:O2'	1:2A:802:C:H5'	2.01	0.61
1:2A:1098:C:O2'	1:2A:1099:A:O5'	2.18	0.61
1:2A:1279:U:O4	59:2A:3831:HOH:O	2.15	0.61
1:2A:1796:U:O2'	1:2A:1797:C:H5'	1.99	0.61
1:2A:2140:A:O2'	1:2A:2141:G:H5'	2.00	0.61
1:2A:2792:G:OP1	9:2N:118:LYS:HE2	2.01	0.61
11:2P:83:VAL:CG2	11:2P:114:ILE:HG12	2.30	0.61
20:2Y:86:ARG:HB2	20:2Y:98:VAL:HG23	1.81	0.61
21:2Z:99:TYR:CE1	21:2Z:125:LEU:HB2	2.35	0.61
23:21:50:ARG:CG	23:21:59:THR:HG22	2.30	0.61
27:25:51:TYR:CE1	27:25:56:LYS:HB2	2.34	0.61
32:2a:338:C:H2'	32:2a:339:U:O4'	2.00	0.61
32:2a:710:C:O2'	32:2a:711:G:H5'	1.99	0.61
32:2a:769:G:C2'	32:2a:770:G:H5'	2.31	0.61
32:2a:1242:C:O5'	32:2a:1266:C:H4'	2.00	0.61
32:2a:1350:C:H5"	40:2i:114:TYR:HA	1.83	0.61
32:2a:1409:C:O2'	32:2a:1410:U:H5'	2.01	0.61
34:2c:131:ARG:HH21	36:2e:50:GLU:HG3	1.64	0.61
35:2d:8:VAL:HG13	35:2d:9:CYS:N	2.16	0.61
35:2d:23:GLY:O	35:2d:26:CYS:HB2	2.01	0.61
35:2d:189:PRO:HB2	35:2d:194:LEU:HD11	1.82	0.61
44:2m:19:LEU:O	44:2m:22:ILE:HG12	2.00	0.61
1:1A:14:G:H1	1:1A:549:U:H3	1.49	0.61
1:1A:473:U:H1'	5:1F:84:VAL:HG11	1.81	0.61
1:1A:1054:A:OP2	59:1A:4150:HOH:O	2.15	0.61
1:1A:2407:G:O2'	1:1A:2408:G:H5'	2.00	0.61
8:1I:81:VAL:O	8:1I:146:ALA:HA	2.00	0.61
10:1O:121:VAL:HG21	55:1a:1900:MPD:HM3	1.83	0.61
12:1Q:75:THR:HG22	59:1Q:315:HOH:O	2.01	0.61
13:1R:38:VAL:HG22	13:1R:112:ALA:HB2	1.81	0.61
18:1W:25:ARG:HB3	59:1W:3111:HOH:O	1.99	0.61
19:1X:12:VAL:HG21	19:1X:27:THR:HG22	1.83	0.61
25:13:14:GLY:HA3	59:13:202:HOH:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1391:A:O2'	32:1a:1392:C:H5'	2.01	0.61
38:1g:133:GLY:HA2	38:1g:136:LYS:HB2	1.81	0.61
41:1j:6:ILE:N	41:1j:72:VAL:O	2.34	0.61
44:1m:9:ILE:CD1	44:1m:45:VAL:HG21	2.31	0.61
1:2A:1102:A:O2'	1:2A:1103:G:O4'	2.19	0.61
1:2A:1784:C:OP1	15:2T:96:ARG:NH1	2.34	0.61
1:2A:2366:C:O2	22:20:39:ARG:NH2	2.34	0.61
1:2A:2474:C:O2'	1:2A:2475:C:H5'	2.01	0.61
1:2A:2785:C:OP1	4:2E:164:ARG:NE	2.33	0.61
59:2A:4017:HOH:O	23:21:3:LYS:HE3	2.01	0.61
21:2Z:155:LEU:HD23	21:2Z:157:LEU:HD21	1.82	0.61
32:2a:97:C:H2'	32:2a:98:G:H5'	1.82	0.61
32:2a:627:C:H2'	32:2a:628:G:H5'	1.83	0.61
32:2a:1006:C:H2'	32:2a:1007:C:C6	2.35	0.61
34:2c:34:LEU:HD13	45:2n:25:VAL:HG21	1.82	0.61
40:2i:16:ARG:O	40:2i:63:ILE:HA	2.01	0.61
42:2k:29:ILE:HG12	42:2k:44:SER:CB	2.30	0.61
44:2m:68:GLY:HA2	44:2m:71:ARG:HB2	1.83	0.61
47:2p:19:ILE:HD11	47:2p:73:LEU:HD13	1.82	0.61
1:1A:1417:U:O5'	1:1A:1417:U:H6	1.83	0.60
1:1A:2363:A:C2'	1:1A:2364:G:H5'	2.31	0.60
1:1A:2659:C:O2'	1:1A:2660:U:H5'	2.01	0.60
1:1A:2759:G:O6	59:1A:4293:HOH:O	2.14	0.60
15:1T:35:LYS:NZ	15:1T:38:ASN:O	2.34	0.60
26:14:10:VAL:HB	26:14:11:PRO:HD2	1.83	0.60
32:1a:342:G:H5"	55:1a:1900:MPD:O4	2.00	0.60
32:1a:708:G:O2'	32:1a:709:G:H5'	2.01	0.60
32:1a:1081:C:O2'	32:1a:1082:G:H5'	2.01	0.60
33:1b:46:LYS:HA	33:1b:49:GLU:HG2	1.83	0.60
34:1c:29:TYR:CE1	45:1n:54:PRO:HD2	2.35	0.60
34:1c:77:ILE:HG23	34:1c:81:GLY:HA2	1.82	0.60
38:1g:16:LEU:HD12	40:1i:42:ARG:HA	1.82	0.60
1:2A:1333:U:O2'	1:2A:1693:G:N2	2.34	0.60
1:2A:1409:G:OP1	23:21:2:SER:HA	2.00	0.60
1:2A:1750:G:H5'	32:2a:1412:C:O2'	2.01	0.60
1:2A:1757:C:O2'	1:2A:1758:C:H5'	2.01	0.60
1:2A:2260:U:N3	1:2A:2264:G:OP2	2.32	0.60
1:2A:2386:G:O2'	1:2A:2388:A:N7	2.30	0.60
1:2A:2893:U:H2'	1:2A:2894:C:H5'	1.82	0.60
5:2F:136:THR:HG22	5:2F:140:LEU:CD1	2.31	0.60
13:2R:8:ARG:HD2	13:2R:43:GLU:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:92:SER:O	21:2Z:130:PRO:HG2	2.00	0.60
32:2a:401:U:P	35:2d:3:ARG:HH21	2.24	0.60
32:2a:812:A:N6	32:2a:836:G:H21	1.99	0.60
32:2a:1307:C:H2'	32:2a:1308:C:H5'	1.81	0.60
35:2d:150:GLU:OE1	35:2d:150:GLU:N	2.31	0.60
41:2j:37:PRO:HA	41:2j:72:VAL:HG12	1.83	0.60
47:2p:55:ARG:O	47:2p:58:TYR:HB3	2.00	0.60
1:1A:114:G:OP2	1:1A:116:A:O2'	2.19	0.60
1:1A:657:A:N3	1:1A:2414:C:H4'	2.16	0.60
1:1A:1031:C:H2'	1:1A:1032:G:H5'	1.83	0.60
1:1A:1103:G:H2'	1:1A:1104:G:H5'	1.82	0.60
1:1A:1149:C:H2'	1:1A:1150:U:C5	2.36	0.60
1:1A:1496:G:H1	1:1A:1508:C:H42	1.49	0.60
1:1A:1797:C:C2'	1:1A:1798:U:H5'	2.31	0.60
1:1A:2180:G:O2'	1:1A:2181:G:H5'	2.01	0.60
1:1A:2331:A:H2'	1:1A:2331:A:N3	2.16	0.60
6:1G:107:LEU:HD13	6:1G:177:GLY:O	2.00	0.60
7:1H:103:LEU:HG	7:1H:105:LEU:CD1	2.32	0.60
11:1P:71:VAL:HG22	11:1P:72:PRO:HA	1.81	0.60
11:1P:125:VAL:CG2	11:1P:138:LEU:HD21	2.30	0.60
13:1R:104:ARG:HD2	13:1R:107:ASP:OD1	2.01	0.60
15:1T:78:LEU:O	15:1T:78:LEU:HD23	2.01	0.60
32:1a:329:G:O6	59:1a:2053:HOH:O	2.14	0.60
32:1a:753:G:H1	32:1a:794:C:H42	1.49	0.60
44:1m:31:LYS:O	44:1m:35:GLU:N	2.21	0.60
45:1n:24:CYS:SG	45:1n:40:CYS:N	2.74	0.60
48:1q:6:LEU:HB2	48:1q:59:ILE:HG13	1.83	0.60
1:2A:1041:A:O3'	16:2U:91:ASP:HB2	2.01	0.60
1:2A:1147:C:H2'	1:2A:1148:A:C8	2.36	0.60
1:2A:1235:G:H2'	1:2A:1236:G:O4'	2.01	0.60
1:2A:1370:G:OP1	1:2A:1693:G:O2'	2.14	0.60
1:2A:1935:C:O2'	1:2A:1936:5MU:H5"	2.00	0.60
1:2A:2117:U:O2	1:2A:2214:G:N2	2.31	0.60
1:2A:2302:U:OP1	1:2A:2392:C:H5'	2.01	0.60
1:2A:2513:G:H5"	1:2A:2514:2MA:H5"	1.82	0.60
3:2D:7:LYS:O	3:2D:9:TYR:HD1	1.84	0.60
3:2D:155:LEU:HD23	3:2D:177:LEU:CD2	2.29	0.60
4:2E:167:VAL:CG2	4:2E:170:LEU:HD11	2.31	0.60
11:2P:121:LYS:CG	11:2P:122:PRO:HD2	2.31	0.60
12:2Q:19:GLY:O	12:2Q:98:LYS:HD3	2.01	0.60
21:2Z:102:LEU:HB2	21:2Z:104:PHE:HE1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:20:63:VAL:HG21	22:20:83:PRO:HG3	1.83	0.60
30:28:16:ILE:HD13	30:28:22:VAL:HG22	1.82	0.60
35:2d:64:LEU:HB2	35:2d:198:VAL:HG11	1.82	0.60
35:2d:201:GLN:HE22	36:2e:99:GLY:HA2	1.65	0.60
37:2f:2:ARG:O	37:2f:66:GLU:HA	2.02	0.60
43:2l:82:VAL:O	43:2l:106:ASP:HB2	2.01	0.60
44:2m:33:ALA:O	44:2m:37:THR:N	2.34	0.60
1:1A:558:U:H5'	16:1U:42:ALA:CB	2.27	0.60
1:1A:1648:A:OP1	59:1A:4332:HOH:O	2.16	0.60
4:1E:104:VAL:HG11	4:1E:188:VAL:HG13	1.82	0.60
14:1S:87:PHE:CE1	14:1S:102:ALA:HB2	2.36	0.60
32:1a:302:G:O2'	32:1a:303:C:H5'	2.02	0.60
32:1a:483:A:H4'	32:1a:484:G:OP1	2.01	0.60
32:1a:938:U:H1'	32:1a:1204:G:O2'	2.02	0.60
33:1b:138:LEU:O	33:1b:142:LEU:N	2.31	0.60
34:1c:11:ARG:HB3	34:1c:15:THR:HB	1.83	0.60
35:1d:58:LEU:HD22	35:1d:59:ARG:HH21	1.66	0.60
35:1d:67:ILE:HG22	35:1d:68:TYR:CD1	2.37	0.60
38:1g:76:ARG:HD2	38:1g:156:TRP:CZ2	2.37	0.60
48:1q:6:LEU:O	48:1q:58:GLU:HA	2.01	0.60
52:1u:18:TYR:N	52:1u:18:TYR:HD1	1.99	0.60
1:2A:320:C:H2'	1:2A:321:G:O4'	2.02	0.60
1:2A:542:G:H4'	18:2W:18:ARG:HH11	1.61	0.60
1:2A:942:C:C2'	1:2A:943:C:H5'	2.30	0.60
1:2A:945:A:HO2'	1:2A:946:A:P	2.24	0.60
1:2A:1132:G:H2'	1:2A:1133:A:H5'	1.82	0.60
1:2A:2209:C:C3'	1:2A:2210:U:H5"	2.31	0.60
1:2A:2226:G:H8	1:2A:2227:G:N7	1.99	0.60
5:2F:110:LEU:HD11	5:2F:181:LEU:HG	1.84	0.60
5:2F:157:VAL:HA	5:2F:176:LEU:O	2.00	0.60
6:2G:15:VAL:HG13	6:2G:175:LEU:CD2	2.31	0.60
11:2P:100:LEU:HD12	11:2P:112:LEU:CD1	2.32	0.60
14:2S:10:ARG:CA	14:2S:13:ARG:HE	1.88	0.60
16:2U:76:TYR:OH	16:2U:92:ARG:NE	2.29	0.60
21:2Z:52:SER:HG	21:2Z:54:HIS:CE1	2.19	0.60
21:2Z:151:HIS:HB3	21:2Z:167:PRO:O	2.01	0.60
32:2a:382:C:C2'	32:2a:383:U:H5'	2.32	0.60
32:2a:527:C:O2'	32:2a:528:G:H5'	2.00	0.60
32:2a:636:U:O2'	32:2a:637:A:OP2	2.13	0.60
32:2a:677:G:O2'	38:2g:82:GLY:N	2.30	0.60
32:2a:972:A:O2'	32:2a:973:C:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:984:A:H3'	32:2a:985:C:C6	2.36	0.60
32:2a:1372:C:O2'	32:2a:1373:U:H5'	2.01	0.60
32:2a:1429:C:O2'	32:2a:1430:C:H5'	2.02	0.60
33:2b:33:TYR:O	33:2b:34:ALA:HB2	2.02	0.60
33:2b:53:ARG:HA	33:2b:56:ARG:HH21	1.66	0.60
33:2b:114:ARG:O	33:2b:118:LEU:HG	2.01	0.60
36:2e:88:LYS:CB	36:2e:123:LEU:HB2	2.29	0.60
44:2m:26:GLY:H	44:2m:29:ARG:HB3	1.66	0.60
44:2m:33:ALA:O	44:2m:37:THR:OG1	2.14	0.60
1:1A:930:C:C2'	1:1A:931:C:H5'	2.31	0.60
1:1A:1341:G:C2'	1:1A:1342:C:H5'	2.31	0.60
1:1A:1428:C:O2	59:1A:4268:HOH:O	2.12	0.60
1:1A:1561:U:H2'	1:1A:1562:G:H8	1.64	0.60
1:1A:2178:G:H5"	1:1A:2179:A:OP1	2.01	0.60
5:1F:152:GLU:HA	5:1F:190:GLU:OE1	2.01	0.60
6:1G:7:LEU:CD1	6:1G:104:GLU:HB2	2.32	0.60
10:1O:122:LEU:N	59:1O:8101:HOH:O	2.04	0.60
11:1P:97:PRO:HA	11:1P:112:LEU:HD12	1.83	0.60
18:1W:18:ARG:CG	18:1W:76:VAL:HB	2.31	0.60
32:1a:366:C:H2'	32:1a:367:G:O4'	2.01	0.60
32:1a:741:U:H2'	32:1a:742:G:O4'	2.00	0.60
32:1a:863:G:O2'	32:1a:864:G:H5'	2.01	0.60
32:1a:881:G:O2'	32:1a:882:C:H5'	2.02	0.60
32:1a:938:U:O2	32:1a:938:U:H2'	2.01	0.60
32:1a:1157:G:H2'	32:1a:1158:A:O4'	2.00	0.60
36:1e:80:ILE:HG22	36:1e:91:LEU:HB2	1.83	0.60
48:1q:51:TYR:CZ	48:1q:73:VAL:HG11	2.36	0.60
1:2A:473:U:O4	1:2A:605:G:H1'	2.01	0.60
1:2A:673:G:H2'	1:2A:674:C:C6	2.37	0.60
1:2A:1040:C:O2	9:2N:3:THR:OG1	2.17	0.60
1:2A:1158:U:H2'	1:2A:1159:G:H8	1.64	0.60
1:2A:1686:C:H5'	1:2A:1687:A:OP2	2.00	0.60
1:2A:2612:C:N4	1:2A:2614:G:O6	2.34	0.60
6:2G:107:LEU:HA	6:2G:111:LEU:CG	2.32	0.60
8:2I:54:GLN:OE1	8:2I:57:ARG:NH2	2.34	0.60
8:2I:130:TYR:HE2	8:2I:132:PRO:HB3	1.66	0.60
18:2W:6:ILE:HG12	18:2W:104:THR:HG23	1.82	0.60
18:2W:18:ARG:HG2	18:2W:76:VAL:HB	1.83	0.60
21:2Z:13:GLU:CB	21:2Z:18:LEU:HD11	2.29	0.60
32:2a:399:C:O2'	32:2a:400:U:H5'	2.01	0.60
32:2a:517:A:O2'	32:2a:518:U:H5"	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:721:A:H1'	37:2f:73:ASN:HD21	1.65	0.60
32:2a:1450:U:C2'	32:2a:1451:A:H5'	2.32	0.60
33:2b:27:LYS:HB2	33:2b:194:PRO:HD2	1.82	0.60
33:2b:55:PHE:CG	33:2b:221:LEU:HD22	2.36	0.60
33:2b:80:ILE:O	33:2b:83:MET:HB2	2.02	0.60
36:2e:105:VAL:HB	36:2e:106:PRO:HD3	1.82	0.60
37:2f:67:MET:SD	37:2f:72:VAL:HG12	2.41	0.60
38:2g:46:ALA:HB2	38:2g:117:ALA:HA	1.82	0.60
43:2l:46:LYS:HG3	43:2l:47:LYS:O	2.02	0.60
1:1A:660:G:N7	11:1P:113:LYS:NZ	2.43	0.60
1:1A:893:U:OP2	59:1A:4321:HOH:O	2.16	0.60
1:1A:934:C:H2'	1:1A:935:C:C5	2.36	0.60
1:1A:1137:C:C2'	1:1A:1138:G:H5'	2.32	0.60
1:1A:1313:A:H2'	1:1A:1314:A:O4'	2.02	0.60
1:1A:2134:U:N3	1:1A:2189:G:H4'	2.15	0.60
1:1A:2800:C:O2'	1:1A:2818:A:N3	2.34	0.60
4:1E:111:ARG:HD2	4:1E:160:TYR:CD2	2.36	0.60
4:1E:113:PHE:CD1	4:1E:158:GLY:HA2	2.36	0.60
6:1G:129:GLY:O	6:1G:161:THR:HB	2.02	0.60
8:1I:2:LYS:HA	8:1I:19:VAL:O	2.01	0.60
18:1W:99:ARG:HA	59:1W:3116:HOH:O	2.01	0.60
20:1Y:19:LYS:CE	20:1Y:20:TYR:HE1	2.14	0.60
32:1a:118:G:H1	32:1a:233:C:H42	1.47	0.60
32:1a:305:G:O2'	32:1a:306:G:H5'	2.01	0.60
32:1a:393:A:H3'	32:1a:393:A:N3	2.16	0.60
32:1a:908:C:N4	32:1a:1370:G:H1	1.98	0.60
32:1a:1095:C:O2	34:1c:179:ARG:HG2	2.01	0.60
32:1a:1508:G:OP1	32:1a:1508:G:H4'	2.01	0.60
33:1b:71:VAL:HG12	33:1b:170:GLU:HG3	1.84	0.60
37:1f:99:ALA:O	49:1r:28:GLU:HA	2.02	0.60
39:1h:9:MET:HE1	39:1h:35:ILE:CD1	2.31	0.60
1:2A:816:G:P	29:27:8:ASN:HD21	2.25	0.60
1:2A:2537:G:H1'	31:29:1:MET:H3	1.67	0.60
1:2A:2760:A:H2'	1:2A:2761:A:O4'	2.02	0.60
1:2A:2770:A:H2'	1:2A:2771:G:O4'	2.01	0.60
1:2A:2896:U:O2'	1:2A:2897:C:H5'	2.01	0.60
2:2B:64:C:H2'	2:2B:65:C:C6	2.36	0.60
3:2D:202:LYS:NZ	32:2a:758:G:OP1	2.33	0.60
4:2E:101:ARG:HD2	4:2E:169:ASN:C	2.26	0.60
11:2P:50:ARG:HG3	30:28:61:LEU:HD21	1.84	0.60
11:2P:130:PHE:HE2	11:2P:145:PRO:HB3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2W:57:ASN:O	18:2W:61:ASN:HB2	2.01	0.60
25:23:22:ALA:HB2	25:23:49:LYS:HD2	1.83	0.60
28:26:52:VAL:HG22	28:26:53:LYS:H	1.66	0.60
32:2a:202:A:OP1	51:2t:68:LYS:NZ	2.32	0.60
32:2a:1050:A:C2'	32:2a:1076:A:HO2'	2.12	0.60
33:2b:17:PHE:O	33:2b:42:ILE:HB	2.01	0.60
36:2e:35:GLY:HA3	36:2e:112:LEU:HB3	1.82	0.60
43:2l:66:VAL:HG21	43:2l:98:TYR:CE2	2.37	0.60
44:2m:4:ILE:CD1	44:2m:19:LEU:HD11	2.20	0.60
44:2m:19:LEU:O	44:2m:25:ILE:HG21	2.01	0.60
46:2o:79:ARG:HA	46:2o:82:ILE:HG12	1.83	0.60
1:1A:704:C:H2'	1:1A:705:C:C6	2.36	0.60
1:1A:2053:G:H1'	4:1E:145:LYS:HE3	1.83	0.60
1:1A:2794:G:OP2	59:1A:4325:HOH:O	2.16	0.60
4:1E:167:VAL:CG1	4:1E:170:LEU:HD11	2.30	0.60
10:1O:15:GLY:O	10:1O:47:ILE:HG12	2.02	0.60
12:1Q:34:LEU:HD11	12:1Q:129:THR:CB	2.32	0.60
18:1W:12:ILE:HD13	18:1W:17:VAL:CG1	2.32	0.60
18:1W:25:ARG:NE	59:1W:3103:HOH:O	2.23	0.60
23:11:64:ALA:HA	23:11:67:ILE:CD1	2.32	0.60
32:1a:580:C:N4	32:1a:629:C:N3	2.49	0.60
32:1a:971:G:H4'	32:1a:972:A:OP1	2.01	0.60
32:1a:1271:A:H2'	32:1a:1272:G:H5'	1.84	0.60
32:1a:1473:U:H2'	32:1a:1474:C:C6	2.36	0.60
33:1b:22:LYS:C	33:1b:24:TRP:H	2.10	0.60
1:2A:867:A:C2'	1:2A:990:G:H5"	2.29	0.60
1:2A:1213:G:H1	1:2A:1225:C:H42	1.48	0.60
1:2A:2119:U:O4	1:2A:2212:G:O6	2.19	0.60
1:2A:2324:C:H2'	1:2A:2325:C:C6	2.35	0.60
4:2E:9:VAL:HG12	4:2E:25:VAL:O	2.01	0.60
4:2E:18:ASP:OD2	15:2T:33:LYS:NZ	2.25	0.60
6:2G:13:GLU:O	6:2G:17:PRO:HG2	2.02	0.60
6:2G:114:ILE:CG2	6:2G:117:PHE:HB2	2.31	0.60
13:2R:70:LEU:O	13:2R:72:ASP:N	2.33	0.60
16:2U:112:ARG:NH1	17:2V:47:VAL:HB	2.13	0.60
25:23:52:HIS:CD2	25:23:53:LEU:HG	2.37	0.60
32:2a:35:C:H42	32:2a:534:G:H1	1.48	0.60
32:2a:691:C:H5"	42:2k:85:ARG:NH1	2.16	0.60
32:2a:720:C:H2'	32:2a:721:A:H8	1.66	0.60
32:2a:1098:C:C2'	32:2a:1099:C:H5'	2.32	0.60
32:2a:1250:A:H1'	32:2a:1308:C:O2'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1342:A:H5"	32:2a:1343:G:OP2	2.02	0.60
32:2a:1449:G:O2'	32:2a:1450:U:H5'	2.02	0.60
41:2j:12:ASP:HB3	41:2j:15:THR:HG23	1.83	0.60
43:2l:31:PRO:C	43:2l:32:PHE:HD1	2.10	0.60
44:2m:58:GLU:O	44:2m:61:GLU:HB2	2.02	0.60
1:1A:1009:C:OP2	59:1A:4328:HOH:O	2.16	0.60
1:1A:1192:C:O2'	1:1A:1193:A:H5'	2.01	0.60
1:1A:1463:G:OP1	1:1A:1633:C:O2'	2.13	0.60
1:1A:1684:C:OP1	59:1A:4313:HOH:O	2.15	0.60
1:1A:1834:C:H42	1:1A:1843:G:H1	1.50	0.60
1:1A:1992:A:O5'	3:1D:242:ARG:NH2	2.34	0.60
1:1A:2623:C:O5'	27:15:2:ALA:HB3	2.02	0.60
4:1E:124:GLY:HA2	4:1E:137:HIS:O	2.01	0.60
19:1X:66:LEU:O	19:1X:68:ARG:N	2.26	0.60
32:1a:480:A:H4'	32:1a:481:A:OP1	2.02	0.60
32:1a:957:C:H2'	32:1a:958:C:H5'	1.82	0.60
32:1a:1089:G:H2'	32:1a:1090:C:H6	1.65	0.60
34:1c:14:ILE:HD11	45:1n:57:ARG:HH21	1.67	0.60
34:1c:114:PRO:HG3	34:1c:185:GLY:CA	2.27	0.60
35:1d:176:LEU:O	35:1d:178:VAL:N	2.35	0.60
37:1f:3:ARG:HG2	37:1f:66:GLU:CB	2.27	0.60
37:1f:4:TYR:HD1	37:1f:92:LYS:HA	1.67	0.60
38:1g:14:PRO:HG3	38:1g:21:VAL:CG1	2.32	0.60
38:1g:73:MET:SD	38:1g:90:GLU:HA	2.42	0.60
38:1g:107:ALA:O	38:1g:110:GLN:HB2	2.02	0.60
46:1o:63:ARG:CZ	46:1o:87:ILE:HD11	2.32	0.60
1:2A:17:C:H5"	16:2U:24:TYR:O	2.02	0.60
1:2A:1511:G:O2'	1:2A:1512:G:H5'	2.01	0.60
1:2A:2218:U:H1'	1:2A:2219:A:C8	2.36	0.60
1:2A:2653:G:H4'	9:2N:78:TYR:CE2	2.37	0.60
2:2B:7:G:N2	14:2S:38:GLN:OE1	2.28	0.60
2:2B:9:G:H1	2:2B:112:U:H3	1.50	0.60
4:2E:101:ARG:HD3	4:2E:170:LEU:C	2.27	0.60
14:2S:105:ALA:HB1	14:2S:110:LEU:HB2	1.83	0.60
32:2a:39:G:H4'	32:2a:531:A:C6	2.37	0.60
32:2a:414:C:O2'	32:2a:415:C:H5'	2.00	0.60
32:2a:460:G:H2'	32:2a:461:G:H8	1.66	0.60
32:2a:550:G:H4'	32:2a:551:G:OP1	2.00	0.60
32:2a:805:G:C2'	32:2a:806:C:H5'	2.31	0.60
32:2a:1030:G:H5"	45:2n:4:LYS:CD	2.31	0.60
32:2a:1297:U:H5"	32:2a:1298:G:OP2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:15:VAL:CB	33:2b:209:ARG:HB3	2.30	0.60
33:2b:16:HIS:HB2	33:2b:204:ASN:CB	2.31	0.60
36:2e:127:ASN:O	36:2e:131:ILE:HG12	2.01	0.60
40:2i:19:LEU:HD23	40:2i:61:ALA:HB2	1.82	0.60
48:2q:74:LEU:HD23	48:2q:75:ARG:HB2	1.83	0.60
51:2t:49:ALA:HB3	51:2t:99:LEU:HD13	1.83	0.60
1:1A:590:U:O4	59:1A:4323:HOH:O	2.16	0.60
1:1A:641:G:OP1	5:1F:106:ARG:HD3	2.01	0.60
1:1A:1659:A:C2	18:1W:93:ALA:HB2	2.37	0.60
1:1A:2559:G:O6	59:1A:4308:HOH:O	2.15	0.60
6:1G:71:THR:N	6:1G:89:GLY:O	2.34	0.60
7:1H:90:LYS:O	7:1H:160:LYS:HA	2.02	0.60
8:1I:40:THR:OG1	8:1I:43:ASN:OD1	2.14	0.60
8:1I:48:GLU:HG2	8:1I:52:ARG:NH2	2.16	0.60
10:1O:7:TYR:HE1	10:1O:20:MET:HE3	1.66	0.60
13:1R:103:ARG:HG2	13:1R:108:GLY:HA2	1.83	0.60
32:1a:100:C:C2'	32:1a:101:G:H5'	2.31	0.60
35:1d:11:LEU:HG	35:1d:66:ARG:HD3	1.84	0.60
41:1j:64:GLU:N	45:1n:57:ARG:O	2.35	0.60
43:1l:26:ALA:HA	43:1l:64:TYR:CD2	2.37	0.60
1:2A:863:C:H2'	1:2A:864:G:O4'	2.00	0.60
1:2A:875:A:C5	1:2A:2259:C:H5'	2.37	0.60
1:2A:990:G:OP1	59:2A:3861:HOH:O	2.16	0.60
1:2A:999:C:OP1	12:2Q:87:LYS:NZ	2.35	0.60
1:2A:1968:C:O2'	1:2A:1969:G:H5'	2.02	0.60
2:2B:90:A:N7	2:2B:91:C:H1'	2.16	0.60
3:2D:260:ARG:NH1	3:2D:267:SER:OG	2.35	0.60
4:2E:2:LYS:HG2	4:2E:200:GLU:HB2	1.84	0.60
6:2G:46:ALA:HB1	6:2G:51:ARG:C	2.27	0.60
6:2G:63:ILE:HG12	6:2G:141:PHE:CD2	2.37	0.60
6:2G:122:PRO:HG3	6:2G:182:LYS:O	2.02	0.60
10:2O:77:ILE:HG12	10:2O:79:PHE:HE1	1.67	0.60
17:2V:76:LYS:HB2	17:2V:81:TYR:HB3	1.84	0.60
18:2W:32:ALA:O	18:2W:34:ASN:N	2.34	0.60
21:2Z:28:MET:HE3	21:2Z:37:VAL:HG11	1.83	0.60
21:2Z:81:ARG:HG2	21:2Z:81:ARG:O	2.02	0.60
21:2Z:125:LEU:HG	21:2Z:164:ALA:CB	2.31	0.60
24:22:16:LEU:O	24:22:67:LYS:NZ	2.33	0.60
32:2a:850:A:H4'	32:2a:851:A:OP1	2.00	0.60
32:2a:1006:C:C4	32:2a:1017:G:O6	2.55	0.60
32:2a:1097:C:H42	32:2a:1168:G:H1	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1190:C:C2'	32:2a:1191:C:H5'	2.32	0.60
33:2b:192:SER:O	33:2b:194:PRO:HD3	2.00	0.60
35:2d:150:GLU:HA	35:2d:153:ARG:NE	2.16	0.60
46:2o:50:HIS:O	46:2o:53:HIS:HB3	2.02	0.60
50:2s:49:ILE:O	50:2s:60:VAL:N	2.35	0.60
1:1A:720:G:C1'	5:1F:74:ARG:HD3	2.25	0.60
1:1A:999:C:OP1	12:1Q:87:LYS:NZ	2.25	0.60
1:1A:1513:C:H2'	1:1A:1514:C:H5'	1.83	0.60
1:1A:1552:A:H2'	1:1A:1553:A:O4'	2.01	0.60
1:1A:2567:C:O2'	1:1A:2568:G:H5'	2.02	0.60
3:1D:77:ALA:HB2	3:1D:97:TYR:HA	1.84	0.60
6:1G:3:LEU:HD13	26:14:25:TYR:CE2	2.37	0.60
7:1H:7:LEU:HD12	7:1H:8:PRO:HD2	1.84	0.60
8:1I:105:HIS:O	8:1I:107:VAL:HG23	2.02	0.60
9:1N:43:THR:N	9:1N:48:MET:SD	2.75	0.60
10:1O:64:ARG:O	10:1O:82:ASN:HA	2.00	0.60
12:1Q:55:VAL:HG12	12:1Q:64:ILE:HD12	1.83	0.60
15:1T:28:VAL:O	15:1T:46:GLU:HA	2.01	0.60
19:1X:12:VAL:CG2	19:1X:27:THR:HG22	2.31	0.60
21:1Z:58:VAL:HG12	21:1Z:68:PRO:CA	2.31	0.60
24:12:9:GLN:HE22	24:12:56:GLN:HB3	1.67	0.60
25:13:29:ARG:HG3	25:13:30:ARG:HG3	1.84	0.60
32:1a:342:G:H21	55:1a:1900:MPD:H53	1.66	0.60
32:1a:1003:G:H2'	32:1a:1003:G:N3	2.16	0.60
32:1a:1072:G:H2'	32:1a:1073:U:H5'	1.83	0.60
33:1b:98:LEU:O	33:1b:101:MET:HB2	2.01	0.60
34:1c:124:ILE:HD11	34:1c:189:ALA:HB2	1.83	0.60
37:1f:48:LEU:HD21	37:1f:60:PHE:CZ	2.37	0.60
50:1s:50:ALA:HB1	50:1s:57:HIS:HB3	1.82	0.60
1:2A:648:C:O2	1:2A:703:U:H4'	2.02	0.60
1:2A:838:G:O2'	1:2A:2451:C:N3	2.27	0.60
1:2A:1413:G:O2'	1:2A:1414:G:H5'	2.01	0.60
1:2A:1727:G:HO2'	1:2A:1792:A:HO2'	1.49	0.60
1:2A:1777:G:O2'	1:2A:1778:G:H5'	2.01	0.60
1:2A:1963:5MC:OP2	1:2A:1964:U:O2'	2.15	0.60
1:2A:2304:C:O2'	1:2A:2305:C:H5'	2.00	0.60
1:2A:2501:G:O6	59:2A:3830:HOH:O	2.12	0.60
3:2D:108:PRO:HD2	3:2D:111:LEU:HD12	1.83	0.60
5:2F:7:TYR:CD2	5:2F:24:LEU:HB2	2.37	0.60
5:2F:31:HIS:O	5:2F:34:TRP:HB3	2.01	0.60
7:2H:35:VAL:HG13	7:2H:71:LEU:HD22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2X:68:ARG:C	19:2X:69:TYR:HD1	2.10	0.60
25:23:18:ASP:OD1	25:23:19:GLN:N	2.33	0.60
26:24:15:ILE:O	26:24:32:TYR:HA	2.01	0.60
31:29:10:ILE:HB	31:29:14:CYS:SG	2.42	0.60
32:2a:218:U:H2'	32:2a:219:U:C6	2.37	0.60
32:2a:251:G:H5"	48:2q:17:LYS:HB2	1.83	0.60
32:2a:504:A:OP1	43:2l:52:LEU:HB2	2.02	0.60
32:2a:597:C:O2'	32:2a:598:A:H5'	2.02	0.60
32:2a:955:A:H2'	32:2a:956:A:H5"	1.82	0.60
32:2a:982:G:H1	32:2a:1018:A:N6	2.00	0.60
32:2a:1010:G:N2	32:2a:1012:G:H3'	2.17	0.60
35:2d:101:LEU:HD23	35:2d:121:VAL:CG1	2.31	0.60
40:2i:78:LYS:HA	40:2i:81:ILE:HG22	1.83	0.60
41:2j:28:ARG:CB	41:2j:34:VAL:HG11	2.31	0.60
47:2p:6:LEU:HB3	47:2p:17:TYR:HB3	1.84	0.60
1:1A:149:C:O2'	1:1A:150:C:H5'	2.01	0.60
1:1A:262:C:H42	1:1A:280:G:H1	1.48	0.60
1:1A:1101:G:H5"	1:1A:1102:A:C4'	2.31	0.60
1:1A:1322:G:H5"	13:1R:40:LYS:NZ	2.16	0.60
1:1A:1724:G:OP2	1:1A:1724:G:N2	2.22	0.60
1:1A:2364:G:N2	22:10:34:GLY:O	2.30	0.60
1:1A:2417:U:OP2	1:1A:2417:U:H2'	2.02	0.60
1:1A:2442:U:N3	1:1A:2445:A:OP2	2.33	0.60
4:1E:77:ILE:C	4:1E:78:LEU:HD12	2.26	0.60
8:1I:93:THR:O	8:1I:97:ILE:HG13	2.02	0.60
12:1Q:84:GLY:O	12:1Q:85:LYS:HB2	2.02	0.60
15:1T:26:ASP:OD1	15:1T:91:ARG:HA	2.02	0.60
20:1Y:92:ASN:HB2	20:1Y:94:LYS:N	1.98	0.60
32:1a:205:G:H2'	32:1a:206:G:H8	1.67	0.60
32:1a:401:U:H5"	32:1a:402:G:O4'	2.02	0.60
32:1a:453:C:H2'	32:1a:454:G:O4'	2.02	0.60
32:1a:1111:C:H4'	32:1a:1131:U:O2	2.01	0.60
32:1a:1252:C:O2'	32:1a:1253:G:H5'	2.02	0.60
32:1a:1319:G:H5"	32:1a:1320:G:OP1	2.01	0.60
33:1b:137:ARG:NH2	33:1b:138:LEU:HG	2.17	0.60
39:1h:24:THR:O	39:1h:60:ARG:HA	2.01	0.60
40:1i:50:LEU:HD12	40:1i:51:ARG:N	2.17	0.60
42:1k:98:LEU:O	42:1k:101:SER:OG	2.17	0.60
43:1l:58:VAL:O	43:1l:65:GLU:HA	2.02	0.60
1:2A:211:A:O2'	1:2A:446:C:O2	2.18	0.60
1:2A:215:A:C2	1:2A:2418:G:H1'	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:300:C:H1'	1:2A:301:A:P	2.41	0.60
1:2A:775:G:HO2'	1:2A:809:G:H4'	1.67	0.60
1:2A:886:C:N3	1:2A:982:G:N1	2.47	0.60
1:2A:1545:G:H2'	1:2A:1546:C:C6	2.36	0.60
1:2A:2105:C:O2'	1:2A:2106:C:H5'	2.01	0.60
1:2A:2691:C:H1'	4:2E:187:ALA:HB1	1.83	0.60
2:2B:15:A:OP2	2:2B:69:G:N2	2.33	0.60
11:2P:91:PHE:N	11:2P:91:PHE:CD1	2.69	0.60
13:2R:27:SER:O	13:2R:30:THR:N	2.34	0.60
24:22:56:GLN:HG2	24:22:59:ARG:HH21	1.67	0.60
25:23:7:LYS:O	25:23:54:VAL:HG23	2.02	0.60
32:2a:823:U:H5"	32:2a:824:C:C5	2.37	0.60
32:2a:1124:C:O2'	32:2a:1125:G:H5'	2.01	0.60
32:2a:1238:A:H5'	32:2a:1240:G:O4'	2.02	0.60
32:2a:1370:G:O2'	32:2a:1371:C:H5'	2.01	0.60
51:2t:33:ILE:O	51:2t:37:SER:N	2.24	0.60
1:1A:320:C:OP1	20:1Y:95:LYS:HE3	2.02	0.59
1:1A:333:A:O2'	1:1A:334:A:OP2	2.15	0.59
1:1A:1287:A:H2'	1:1A:1288:G:H5'	1.84	0.59
1:1A:1895:G:OP1	59:1A:4334:HOH:O	2.16	0.59
1:1A:2040:A:N7	27:15:9:LYS:HE2	2.17	0.59
1:1A:2695:U:O2'	10:1O:68:GLU:HG3	2.01	0.59
2:1B:113:G:O2'	2:1B:114:C:H5'	2.02	0.59
4:1E:108:SER:O	4:1E:162:ALA:HA	2.02	0.59
5:1F:170:LEU:HD23	5:1F:173:VAL:CG2	2.31	0.59
18:1W:37:ARG:C	18:1W:38:TYR:HD1	2.10	0.59
20:1Y:14:LEU:HB2	20:1Y:75:ILE:HD11	1.83	0.59
32:1a:18:U:O2'	32:1a:1062:G:O2'	2.02	0.59
32:1a:38:U:O2'	32:1a:39:G:H5'	2.02	0.59
32:1a:255:G:H2'	32:1a:256:G:O4'	2.01	0.59
32:1a:820:G:OP1	49:1r:61:LYS:NZ	2.28	0.59
33:1b:9:GLU:OE2	33:1b:217:ARG:NH1	2.24	0.59
33:1b:60:ASP:O	33:1b:64:ARG:HG3	2.02	0.59
33:1b:116:GLU:O	33:1b:119:GLU:HB2	2.02	0.59
35:1d:98:GLU:HA	35:1d:103:ASN:HD22	1.66	0.59
42:1k:34:ASP:OD2	42:1k:38:ASN:HB2	2.02	0.59
43:1l:36:VAL:N	43:1l:58:VAL:HG13	2.17	0.59
1:2A:270:U:O2	8:2I:50:ARG:HD2	2.02	0.59
1:2A:561:C:O2'	1:2A:562:G:H5'	2.02	0.59
1:2A:579:U:O2'	1:2A:580:G:H5'	2.02	0.59
1:2A:1040:C:N4	9:2N:2:LYS:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2403:A:C2	11:2P:61:ARG:HG2	2.37	0.59
1:2A:2542:A:H4'	7:2H:157:TYR:CE2	2.37	0.59
5:2F:103:LYS:O	5:2F:106:ARG:HG2	2.02	0.59
6:2G:16:ARG:NH1	6:2G:31:VAL:HG21	2.17	0.59
9:2N:73:THR:OG1	9:2N:82:LEU:HD11	2.02	0.59
9:2N:80:GLY:O	9:2N:82:LEU:N	2.33	0.59
9:2N:112:LEU:O	9:2N:116:LEU:HG	2.02	0.59
14:2S:10:ARG:HE	14:2S:91:PRO:CA	2.15	0.59
18:2W:58:ALA:O	18:2W:62:HIS:N	2.32	0.59
21:2Z:73:GLN:HB3	21:2Z:87:ASP:OD2	2.02	0.59
32:2a:1103:G:O2'	32:2a:1104:U:H5'	2.01	0.59
32:2a:1141:C:O2	32:2a:1141:C:H2'	2.01	0.59
35:2d:142:PRO:HB3	35:2d:186:LEU:O	2.01	0.59
35:2d:149:ALA:O	35:2d:153:ARG:HD2	2.02	0.59
38:2g:138:LYS:O	38:2g:142:GLU:N	2.35	0.59
39:2h:38:ILE:CD1	39:2h:118:VAL:HG12	2.31	0.59
40:2i:16:ARG:NH1	40:2i:64:THR:HG21	2.10	0.59
41:2j:32:ALA:HB1	41:2j:33:GLN:CD	2.27	0.59
1:1A:20:A:O2'	1:1A:21:C:H5'	2.01	0.59
1:1A:476:C:H5'	59:1A:3929:HOH:O	2.02	0.59
1:1A:899:G:O2'	1:1A:900:G:H5'	2.01	0.59
1:1A:2375:C:H2'	1:1A:2376:G:O4'	2.01	0.59
1:1A:2558:U:O2'	1:1A:2559:G:H5'	2.01	0.59
4:1E:183:LEU:HD21	15:1T:10:VAL:CG1	2.31	0.59
12:1Q:61:GLY:HA2	21:1Z:177:PRO:HB2	1.84	0.59
32:1a:60:A:H1'	32:1a:350:G:C2	2.38	0.59
32:1a:331:C:HO2'	32:1a:1416:A:HO2'	1.48	0.59
32:1a:1305:G:H4'	32:1a:1345:C:C2	2.37	0.59
33:1b:55:PHE:CD1	33:1b:58:ILE:HD12	2.37	0.59
35:1d:172:PRO:HB2	35:1d:187:ARG:HH21	1.68	0.59
38:1g:113:GLU:HG2	38:1g:119:ARG:CG	2.32	0.59
39:1h:6:ILE:HB	39:1h:85:ARG:NH1	2.17	0.59
47:1p:40:ASP:HB3	47:1p:48:TRP:HB2	1.84	0.59
1:2A:69:A:H4'	1:2A:70:U:H5"	1.84	0.59
1:2A:907:A:H2'	1:2A:908:G:H5'	1.84	0.59
1:2A:1015:C:H2'	1:2A:1016:G:O4'	2.01	0.59
1:2A:1129:A:H3'	1:2A:1130:A:O4'	2.01	0.59
1:2A:1214:G:H1	1:2A:1224:C:H42	1.50	0.59
1:2A:1596:C:H4'	1:2A:1771:C:O2	2.01	0.59
6:2G:6:ALA:O	6:2G:9:ARG:N	2.34	0.59
19:2X:4:ALA:HB1	19:2X:42:ALA:CA	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:20:48:GLY:N	22:20:51:VAL:HB	2.17	0.59
32:2a:372:G:O2'	47:2p:5:ARG:NH1	2.36	0.59
32:2a:410:A:H2'	32:2a:411:A:O4'	2.02	0.59
32:2a:466:G:H21	32:2a:467:A:N6	2.00	0.59
32:2a:559:G:H4'	32:2a:560:G:C5'	2.33	0.59
32:2a:657:G:H5"	37:2f:87:ARG:HH12	1.63	0.59
32:2a:1010:G:H1'	32:2a:1012:G:C5	2.37	0.59
32:2a:1244:C:O2'	32:2a:1245:C:H5'	2.02	0.59
33:2b:155:LEU:HD21	33:2b:159:PRO:HD3	1.84	0.59
39:2h:23:SER:O	39:2h:24:THR:HB	2.00	0.59
40:2i:17:VAL:HG11	40:2i:80:GLY:C	2.27	0.59
51:2t:14:LYS:HA	51:2t:17:ARG:CZ	2.32	0.59
1:1A:62:A:N9	19:1X:66:LEU:HD23	2.18	0.59
1:1A:468:A:H1'	1:1A:1245:C:O4'	2.02	0.59
1:1A:857:U:H5"	59:1A:5420:HOH:O	2.02	0.59
1:1A:1227:G:O6	59:1A:4243:HOH:O	2.10	0.59
1:1A:2584:C:H3'	59:1A:3927:HOH:O	2.02	0.59
6:1G:83:ARG:H	6:1G:86:MET:HE3	1.67	0.59
9:1N:67:LEU:HA	9:1N:87:LEU:HB3	1.82	0.59
13:1R:22:ARG:NH1	59:1R:309:HOH:O	2.19	0.59
13:1R:50:HIS:O	13:1R:54:LEU:HD13	2.03	0.59
14:1S:94:TYR:CE2	14:1S:99:LYS:HG3	2.37	0.59
15:1T:45:PHE:CE1	15:1T:65:LYS:HD2	2.37	0.59
23:11:79:GLY:O	23:11:80:LEU:HD12	2.02	0.59
32:1a:1232:A:H4'	40:1i:68:GLY:N	2.17	0.59
34:1c:6:HIS:CG	45:1n:49:HIS:HB3	2.36	0.59
38:1g:100:ALA:O	38:1g:104:LEU:HD13	2.03	0.59
47:1p:59:TRP:O	47:1p:62:VAL:HG12	2.01	0.59
49:1r:37:VAL:HG13	49:1r:38:GLU:N	2.17	0.59
1:2A:145:G:C2'	1:2A:146:U:H5'	2.32	0.59
1:2A:2125:G:H5'	1:2A:2126:C:OP1	2.02	0.59
1:2A:2256:U:O2'	1:2A:2447:G:OP2	2.13	0.59
1:2A:2398:U:C1'	22:20:41:ARG:HE	2.16	0.59
1:2A:2405:C:H2'	1:2A:2406:C:H5'	1.85	0.59
6:2G:66:GLN:OE1	6:2G:94:LEU:HD23	2.02	0.59
6:2G:138:GLN:HE22	6:2G:149:VAL:HG23	1.66	0.59
10:2O:14:THR:O	10:2O:14:THR:HG22	2.02	0.59
10:2O:49:ARG:NH1	32:2a:1405:G:O3'	2.34	0.59
13:2R:20:LEU:O	13:2R:24:GLN:HG2	2.01	0.59
27:25:35:GLU:CG	27:25:51:TYR:HD2	2.15	0.59
27:25:51:TYR:HD1	27:25:56:LYS:HA	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:62:G:H2'	32:2a:63:U:O4'	2.00	0.59
32:2a:132:C:H2'	32:2a:133:G:C8	2.34	0.59
32:2a:861:C:N4	32:2a:862:U:O4	2.35	0.59
32:2a:909:C:H42	32:2a:1369:G:H1	0.69	0.59
32:2a:1158:A:H2'	32:2a:1159:G:C8	2.37	0.59
33:2b:12:GLU:O	33:2b:15:VAL:HG22	2.03	0.59
33:2b:71:VAL:HG12	33:2b:93:VAL:CG2	2.33	0.59
33:2b:102:LEU:HD23	33:2b:158:LEU:HD11	1.84	0.59
35:2d:20:TYR:CD1	35:2d:26:CYS:HB3	2.33	0.59
38:2g:6:ARG:HG2	38:2g:6:ARG:O	2.01	0.59
1:1A:378:G:O2'	1:1A:379:G:H5'	2.01	0.59
1:1A:575:G:O2'	1:1A:576:U:H5'	2.03	0.59
1:1A:1262:C:N4	1:1A:1276:G:H1	1.94	0.59
1:1A:1739:U:H1'	3:1D:14:ARG:NH1	2.17	0.59
1:1A:1816:A:H1'	1:1A:1959:A:N6	2.17	0.59
1:1A:1854:G:N3	3:1D:254:THR:OG1	2.36	0.59
1:1A:1938:PSU:O2'	1:1A:1939:A:H5'	2.01	0.59
1:1A:2163:C:N3	1:1A:2170:G:C6	2.70	0.59
9:1N:27:ALA:HB1	9:1N:103:VAL:HG22	1.84	0.59
12:1Q:64:ILE:C	12:1Q:65:PHE:HD1	2.09	0.59
21:1Z:110:GLY:HA3	21:1Z:174:VAL:HG11	1.84	0.59
29:17:34:ARG:CD	29:17:42:LEU:HA	2.29	0.59
32:1a:434:G:C4'	35:1d:123:HIS:HD2	2.11	0.59
32:1a:440:G:N1	32:1a:474:C:N3	2.43	0.59
32:1a:528:G:OP2	35:1d:66:ARG:NH2	2.36	0.59
32:1a:731:C:H3'	32:1a:732:C:C6	2.38	0.59
32:1a:815:U:O2'	32:1a:816:C:H5'	2.02	0.59
32:1a:910:C:N4	32:1a:1368:G:H1	2.00	0.59
33:1b:27:LYS:HD2	33:1b:193:ASP:OD1	2.02	0.59
36:1e:142:LEU:O	36:1e:143:ARG:HD3	2.01	0.59
38:1g:65:ALA:O	38:1g:69:VAL:HG23	2.02	0.59
52:1u:6:ARG:HE	52:1u:15:ARG:HH12	1.50	0.59
1:2A:675:G:OP1	30:28:17:THR:HB	2.02	0.59
1:2A:1137:C:OP2	1:2A:1137:C:H6	1.84	0.59
1:2A:1265:C:H42	1:2A:1274:G:H1	1.49	0.59
1:2A:1576:C:N4	1:2A:1585:G:H1	2.00	0.59
1:2A:1765:G:H2'	1:2A:1768:G:O6	2.03	0.59
1:2A:1822:G:H5'	3:2D:205:VAL:HG13	1.84	0.59
1:2A:2195:C:O2'	1:2A:2196:C:H5'	2.02	0.59
1:2A:2878:G:H2'	1:2A:2879:C:C6	2.37	0.59
3:2D:16:MET:HG3	3:2D:206:LEU:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:59:VAL:O	4:2E:64:LYS:HE2	2.02	0.59
6:2G:115:ARG:HB2	6:2G:136:ARG:HH21	1.66	0.59
9:2N:15:LEU:HD11	9:2N:55:VAL:HG22	1.84	0.59
9:2N:21:LYS:NZ	9:2N:140:VAL:OXT	2.26	0.59
32:2a:273:C:P	48:2q:68:ARG:HH12	2.25	0.59
32:2a:376:G:N2	32:2a:379:A:OP2	2.36	0.59
32:2a:402:G:N2	35:2d:119:GLN:HE22	2.01	0.59
32:2a:723:C:O2'	46:2o:42:HIS:ND1	2.28	0.59
32:2a:779:C:H1'	32:2a:1484:U:C6	2.37	0.59
32:2a:1181:U:OP1	59:2a:1925:HOH:O	2.17	0.59
33:2b:104:ASN:CG	33:2b:107:THR:HB	2.27	0.59
33:2b:167:PRO:O	33:2b:171:ALA:N	2.35	0.59
34:2c:184:TYR:HA	34:2c:200:ALA:O	2.03	0.59
42:2k:50:TYR:CG	42:2k:54:ARG:HG3	2.37	0.59
43:2l:32:PHE:HD2	43:2l:84:LEU:HD21	1.66	0.59
44:2m:11:ARG:CA	44:2m:45:VAL:HB	2.28	0.59
48:2q:13:ASP:HB2	59:2q:201:HOH:O	2.01	0.59
49:2r:73:ALA:O	49:2r:75:ILE:N	2.35	0.59
1:1A:97:U:OP1	1:1A:99:G:H5'	2.03	0.59
1:1A:547:C:H4'	1:1A:564:C:O2	2.01	0.59
1:1A:1532:G:O2'	1:1A:1533:G:H5'	2.03	0.59
1:1A:2224:U:C1'	3:1D:151:LYS:HZ3	2.15	0.59
1:1A:2627:C:O2	59:1A:3917:HOH:O	2.15	0.59
5:1F:43:LYS:HA	5:1F:98:SER:HA	1.84	0.59
12:1Q:61:GLY:HA2	21:1Z:177:PRO:CB	2.33	0.59
21:1Z:24:LEU:HD21	21:1Z:86:VAL:HG13	1.83	0.59
25:13:26:LEU:O	59:13:203:HOH:O	2.16	0.59
32:1a:74:G:H1	32:1a:90:U:H3	1.50	0.59
32:1a:246:A:H5'	32:1a:248:U:C1'	2.33	0.59
32:1a:492:C:OP1	35:1d:209:ARG:NH2	2.36	0.59
32:1a:710:C:O2'	32:1a:711:G:H5'	2.02	0.59
32:1a:824:C:H5"	32:1a:825:U:C4	2.37	0.59
32:1a:1310:C:H5"	44:1m:28:ALA:CB	2.33	0.59
33:1b:150:SER:O	33:1b:153:ARG:HG2	2.02	0.59
36:1e:33:VAL:HG22	36:1e:34:VAL:H	1.67	0.59
36:1e:79:GLU:HG2	36:1e:79:GLU:O	2.01	0.59
39:1h:21:LYS:O	39:1h:65:TYR:OH	2.12	0.59
1:2A:164:G:O2'	1:2A:165:G:H5'	2.02	0.59
1:2A:468:A:C5	5:2F:45:ARG:HD2	2.37	0.59
1:2A:475:G:OP2	59:2A:3870:HOH:O	2.17	0.59
1:2A:623:C:H2'	1:2A:624:G:O4'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1572:G:H5"	1:2A:1573:A:OP1	2.02	0.59
1:2A:1765:G:N1	1:2A:1767:U:OP2	2.36	0.59
1:2A:2157:C:C2	1:2A:2176:G:N2	2.71	0.59
1:2A:2189:G:H2'	1:2A:2191:A:OP2	2.02	0.59
4:2E:1:MET:O	4:2E:84:PHE:HB2	2.01	0.59
10:2O:36:GLY:N	10:2O:62:VAL:O	2.28	0.59
11:2P:120:ALA:HB1	11:2P:138:LEU:HA	1.84	0.59
14:2S:5:THR:O	14:2S:9:ARG:N	2.25	0.59
19:2X:26:TYR:HB3	19:2X:28:PHE:HE1	1.66	0.59
20:2Y:7:VAL:CG1	20:2Y:27:VAL:HG21	2.32	0.59
32:2a:182:C:H2'	32:2a:183:C:C6	2.38	0.59
32:2a:589:U:H3	32:2a:617:G:H1	1.50	0.59
32:2a:999:U:O2'	32:2a:1000:G:H5'	2.02	0.59
32:2a:1100:G:O3'	40:2i:104:ARG:NH1	2.35	0.59
33:2b:75:LYS:HA	33:2b:78:GLN:CG	2.32	0.59
34:2c:152:ILE:HG22	34:2c:167:TRP:HB2	1.84	0.59
34:2c:173:VAL:HG12	34:2c:175:LEU:HD12	1.84	0.59
44:2m:78:ILE:HG21	44:2m:82:MET:HE3	1.83	0.59
1:1A:301:A:O2'	1:1A:302:C:OP1	2.20	0.59
1:1A:501:G:N1	1:1A:504:A:OP2	2.33	0.59
1:1A:705:C:O2'	1:1A:706:G:H5'	2.02	0.59
1:1A:1075:G:OP1	59:1A:4337:HOH:O	2.17	0.59
1:1A:1348:G:C2'	1:1A:1349:C:H5'	2.33	0.59
1:1A:1395:C:O2'	59:1A:4176:HOH:O	2.17	0.59
1:1A:2641:G:O4'	1:1A:2902:G:H1'	2.03	0.59
6:1G:37:VAL:HA	6:1G:158:ALA:O	2.01	0.59
11:1P:98:GLU:HG2	11:1P:102:ARG:HH21	1.66	0.59
12:1Q:29:PHE:HB2	12:1Q:65:PHE:CD2	2.38	0.59
15:1T:74:ARG:CD	15:1T:76:PHE:CZ	2.85	0.59
18:1W:33:ARG:NE	18:1W:52:GLU:OE2	2.35	0.59
22:10:36:ILE:N	59:10:205:HOH:O	2.26	0.59
32:1a:310:C:O2'	32:1a:311:A:H5'	2.01	0.59
32:1a:340:A:H5"	32:1a:341:C:H5	1.68	0.59
32:1a:453:C:H42	32:1a:459:G:H1	1.50	0.59
32:1a:610:U:H5"	47:1p:38:TYR:CD2	2.38	0.59
32:1a:962:C:N4	32:1a:1203:G:N1	2.24	0.59
32:1a:1009:C:N3	32:1a:1014:G:N2	2.45	0.59
32:1a:1447:G:N7	59:1a:2086:HOH:O	2.30	0.59
33:1b:83:MET:SD	33:1b:234:PRO:HG2	2.42	0.59
34:1c:132:ARG:HG2	34:1c:136:GLN:NE2	2.18	0.59
46:1o:66:LEU:O	46:1o:69:TYR:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:668:A:H4'	1:2A:669:C:H5	1.67	0.59
1:2A:721:A:N3	1:2A:2454:C:O2'	2.34	0.59
1:2A:979:C:O2'	1:2A:980:C:H5'	2.02	0.59
1:2A:1007:U:H1'	1:2A:2261:G:O6	2.02	0.59
1:2A:1090:A:H2'	1:2A:1090:A:N3	2.18	0.59
1:2A:1288:G:O2'	11:2P:7:ARG:HD2	2.03	0.59
1:2A:1404:A:H2'	1:2A:1405:A:C5'	2.29	0.59
1:2A:2160:C:H42	1:2A:2173:G:H1	0.71	0.59
1:2A:2177:G:H2'	1:2A:2178:G:H5'	1.85	0.59
1:2A:2424:G:H2'	1:2A:2425:G:O4'	2.03	0.59
2:2B:83:G:C2'	2:2B:84:C:H5"	2.31	0.59
6:2G:11:TYR:CE1	6:2G:172:LEU:HD11	2.37	0.59
7:2H:28:GLY:CA	7:2H:79:VAL:HB	2.31	0.59
18:2W:34:ASN:OD1	18:2W:37:ARG:NH1	2.35	0.59
32:2a:284:A:H2'	32:2a:285:G:H4'	1.82	0.59
32:2a:297:G:H2'	32:2a:298:G:H8	1.68	0.59
32:2a:939:U:C2'	32:2a:940:C:H5'	2.33	0.59
32:2a:983:A:H5"	32:2a:1004:U:O4	2.03	0.59
32:2a:1002:G:H2'	32:2a:1003:G:O4'	2.02	0.59
32:2a:1130:C:C2'	32:2a:1131:U:H5'	2.33	0.59
33:2b:71:VAL:CG2	33:2b:164:VAL:HG13	2.31	0.59
35:2d:122:ARG:NH2	35:2d:134:ASP:OD2	2.34	0.59
39:2h:67:PRO:O	39:2h:76:PRO:HB3	2.02	0.59
42:2k:20:TYR:O	42:2k:30:VAL:HA	2.03	0.59
44:2m:91:ARG:HB3	44:2m:97:PRO:O	2.02	0.59
1:1A:14:G:O2'	1:1A:15:G:H5'	2.02	0.59
1:1A:111:U:O2'	19:1X:33:LYS:NZ	2.36	0.59
1:1A:657:A:O2'	1:1A:2415:C:OP1	2.18	0.59
1:1A:1445:G:H2'	1:1A:1446:G:C8	2.37	0.59
1:1A:1714:A:OP1	59:1A:4336:HOH:O	2.17	0.59
1:1A:2159:C:H42	1:1A:2174:G:H1	1.51	0.59
1:1A:2473:U:H1'	1:1A:2502:U:O4	2.01	0.59
1:1A:2685:G:H2'	1:1A:2686:A:C8	2.37	0.59
1:1A:2851:G:OP2	59:1A:4333:HOH:O	2.16	0.59
1:1A:2866:G:N2	1:1A:2869:A:OP2	2.32	0.59
3:1D:172:TYR:HB3	3:1D:185:VAL:O	2.02	0.59
5:1F:102:PRO:HB2	5:1F:105:VAL:HG23	1.85	0.59
7:1H:149:ARG:HA	7:1H:162:ILE:CG2	2.32	0.59
15:1T:91:ARG:HG3	15:1T:120:ARG:O	2.02	0.59
26:14:65:ASP:HA	26:14:67:TYR:HE1	1.67	0.59
32:1a:389:A:H5'	32:1a:468:C:O2'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:390:G:C2'	32:1a:391:C:H5'	2.33	0.59
32:1a:505:G:OP1	43:1l:73:GLU:HA	2.03	0.59
32:1a:773:U:H5"	32:1a:774:A:OP2	2.03	0.59
32:1a:1043:C:H4'	41:1j:52:GLY:N	2.18	0.59
33:1b:61:LEU:HD11	33:1b:66:GLY:HA3	1.85	0.59
34:1c:24:ALA:CB	34:1c:32:LEU:HD12	2.31	0.59
37:1f:82:ARG:HB2	37:1f:85:VAL:CG2	2.32	0.59
39:1h:114:THR:HG22	39:1h:130:GLY:O	2.03	0.59
40:1i:9:ARG:HG2	40:1i:14:VAL:HG22	1.85	0.59
40:1i:50:LEU:HD13	40:1i:56:LEU:CA	2.23	0.59
1:2A:172:C:H2'	1:2A:173:U:H6	1.67	0.59
1:2A:184:A:H2'	1:2A:184:A:N3	2.16	0.59
1:2A:264:U:H2'	1:2A:265:C:C6	2.38	0.59
1:2A:597:A:OP2	1:2A:2076:C:N4	2.34	0.59
1:2A:815:G:O2'	1:2A:816:G:H5'	2.02	0.59
1:2A:832:C:O2'	1:2A:833:U:H5'	2.02	0.59
1:2A:1067:G:O6	9:2N:66:LYS:HE3	2.02	0.59
1:2A:1143:A:H2'	1:2A:1144:G:H5'	1.83	0.59
1:2A:1430:G:H4'	1:2A:1431:C:OP1	2.03	0.59
1:2A:1827:C:H4'	3:2D:257:LEU:O	2.02	0.59
1:2A:2124:C:O2	1:2A:2124:C:H2'	2.02	0.59
1:2A:2427:C:OP1	11:2P:65:ARG:HG3	2.03	0.59
5:2F:192:LEU:HD21	5:2F:194:MET:HG3	1.85	0.59
6:2G:11:TYR:HD2	6:2G:12:TYR:CD1	2.20	0.59
8:2I:5:LEU:HD11	8:2I:19:VAL:CG2	2.32	0.59
8:2I:41:GLU:O	8:2I:45:LYS:HG3	2.03	0.59
9:2N:33:LEU:HA	9:2N:38:HIS:ND1	2.17	0.59
18:2W:30:GLU:O	18:2W:33:ARG:HB3	2.02	0.59
26:24:48:ARG:HB3	26:24:52:THR:HA	1.85	0.59
31:29:14:CYS:HA	31:29:27:CYS:HB2	1.85	0.59
32:2a:182:C:O2'	32:2a:183:C:H5'	2.03	0.59
32:2a:1145:C:O2'	32:2a:1146:C:H5'	2.03	0.59
32:2a:1288:A:H1'	32:2a:1314:A:C2	2.38	0.59
32:2a:1441:C:O2'	32:2a:1442:G:H5'	2.03	0.59
35:2d:98:GLU:OE1	35:2d:103:ASN:ND2	2.28	0.59
41:2j:26:ALA:HB1	41:2j:84:GLN:NE2	2.18	0.59
1:1A:593:A:OP2	59:1A:4323:HOH:O	2.16	0.59
1:1A:2130:U:H2'	1:1A:2131:G:C8	2.37	0.59
2:1B:117:G:C5'	14:1S:55:ALA:HB2	2.33	0.59
5:1F:88:VAL:HG13	59:1F:407:HOH:O	2.02	0.59
6:1G:69:ALA:N	6:1G:91:ARG:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:171:ALA:CA	6:1G:175:LEU:HD13	2.32	0.59
20:1Y:13:VAL:HB	20:1Y:72:VAL:CG1	2.32	0.59
21:1Z:152:ALA:CA	21:1Z:155:LEU:HD13	2.24	0.59
26:14:16:CYS:CB	26:14:20:ASN:HB3	2.32	0.59
32:1a:329:G:O2'	32:1a:330:C:H5'	2.03	0.59
32:1a:1075:A:H2'	32:1a:1076:A:C8	2.38	0.59
39:1h:17:THR:HB	39:1h:78:GLN:OE1	2.02	0.59
45:1n:32:SER:HB3	45:1n:41:ARG:HB3	1.83	0.59
46:1o:82:ILE:HD12	46:1o:88:ARG:HE	1.67	0.59
51:1t:56:MET:HG3	51:1t:84:LEU:HD21	1.84	0.59
1:2A:765:C:H2'	1:2A:766:C:H6	1.68	0.59
1:2A:1031:C:H2'	1:2A:1032:G:H5'	1.84	0.59
1:2A:1232:U:C5'	17:2V:79:VAL:HG13	2.32	0.59
1:2A:1781:C:O2'	1:2A:1782:C:H5'	2.02	0.59
1:2A:2139:U:O2'	1:2A:2140:A:H5"	2.03	0.59
1:2A:2537:G:N3	31:29:1:MET:N	2.50	0.59
3:2D:72:LYS:NZ	3:2D:99:ASP:OD2	2.34	0.59
11:2P:100:LEU:HA	11:2P:103:ALA:HB3	1.85	0.59
13:2R:70:LEU:HD12	13:2R:76:VAL:HG22	1.85	0.59
18:2W:24:ILE:HA	18:2W:27:LYS:HG3	1.83	0.59
18:2W:29:LEU:HD11	18:2W:33:ARG:HH21	1.68	0.59
22:20:49:LYS:O	22:20:50:ASN:HB2	2.02	0.59
32:2a:45:G:OP2	47:2p:12:LYS:HE3	2.02	0.59
32:2a:93:U:O2'	32:2a:94:C:H5'	2.01	0.59
32:2a:96:G:P	51:2t:10:LEU:HD21	2.42	0.59
32:2a:199:U:H4'	51:2t:57:ARG:CD	2.33	0.59
32:2a:206:G:H2'	32:2a:207:G:C8	2.38	0.59
32:2a:317:A:O2'	32:2a:318:C:H5'	2.01	0.59
32:2a:373:G:H2'	32:2a:374:G:H8	1.67	0.59
32:2a:816:C:O2'	32:2a:817:U:H5'	2.02	0.59
32:2a:817:U:O2'	32:2a:818:C:H5'	2.03	0.59
32:2a:930:U:O2'	32:2a:931:G:H5'	2.03	0.59
32:2a:955:A:H1'	32:2a:960:U:O4	2.01	0.59
32:2a:970:U:H5"	32:2a:971:G:C8	2.38	0.59
32:2a:1302:C:H1'	50:2s:73:GLU:HG2	1.84	0.59
32:2a:1467:G:O2'	32:2a:1468:C:H5'	2.03	0.59
32:2a:1470:A:H2'	32:2a:1471:A:H5"	1.84	0.59
33:2b:16:HIS:HB2	33:2b:204:ASN:HB2	1.83	0.59
33:2b:96:ARG:NH1	33:2b:98:LEU:HD22	2.15	0.59
36:2e:102:ALA:HB1	36:2e:106:PRO:HG2	1.85	0.59
41:2j:6:ILE:O	41:2j:71:LEU:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:2s:36:ARG:NH1	50:2s:75:ALA:HB3	2.18	0.59
1:1A:139:A:H5"	1:1A:140:C:OP2	2.02	0.59
1:1A:2000:C:C2'	1:1A:2001:G:H5'	2.33	0.59
3:1D:66:ASP:OD2	3:1D:103:ARG:HD2	2.02	0.59
3:1D:254:THR:N	59:1D:412:HOH:O	2.35	0.59
12:1Q:12:GLN:H	12:1Q:73:PRO:HG2	1.67	0.59
15:1T:115:ARG:HD2	15:1T:115:ARG:H	1.68	0.59
19:1X:34:ALA:O	19:1X:77:LYS:NZ	2.34	0.59
21:1Z:23:LYS:HB3	21:1Z:38:TYR:CD2	2.38	0.59
32:1a:190:U:H3	48:1q:72:ARG:NH1	2.01	0.59
32:1a:355:U:H2'	32:1a:356:A:C8	2.38	0.59
32:1a:561:G:O2'	32:1a:562:C:H5'	2.02	0.59
32:1a:939:U:C2'	32:1a:940:C:H5'	2.32	0.59
32:1a:1043:C:C5	34:1c:2:GLY:HA2	2.38	0.59
32:1a:1291:G:O2'	32:1a:1292:G:H5'	2.02	0.59
51:1t:56:MET:SD	51:1t:88:VAL:HG21	2.42	0.59
1:2A:82:A:C5'	20:2Y:8:LYS:HE3	2.33	0.59
1:2A:942:C:H2'	1:2A:943:C:H5'	1.84	0.59
1:2A:1030:C:O2'	1:2A:1031:C:H5'	2.03	0.59
1:2A:1041:A:OP2	16:2U:93:LYS:NZ	2.33	0.59
1:2A:1722:A:H2	1:2A:2014:U:H5'	1.68	0.59
1:2A:2411:G:O3'	28:26:18:ARG:NH1	2.35	0.59
1:2A:2502:U:H1'	1:2A:2580:G:O3'	2.02	0.59
1:2A:2723:U:H1'	1:2A:2724:A:C8	2.38	0.59
1:2A:2893:U:OP2	59:2A:3869:HOH:O	2.17	0.59
3:2D:106:ILE:HD11	3:2D:144:ALA:HB2	1.85	0.59
4:2E:105:THR:HG21	4:2E:164:ARG:CZ	2.33	0.59
5:2F:136:THR:HG22	5:2F:140:LEU:HD11	1.84	0.59
6:2G:39:ILE:HB	6:2G:92:VAL:HG13	1.83	0.59
15:2T:2:ASN:ND2	15:2T:5:ALA:HB2	2.18	0.59
21:2Z:30:ASN:ND2	21:2Z:90:VAL:O	2.30	0.59
21:2Z:33:LEU:HD21	21:2Z:90:VAL:CG1	2.32	0.59
25:23:23:LEU:HA	25:23:26:LEU:HD12	1.85	0.59
32:2a:641:G:H4'	46:2o:28:GLN:HG3	1.83	0.59
32:2a:695:G:O2'	32:2a:696:A:H5'	2.02	0.59
32:2a:1042:C:H2'	32:2a:1043:C:C6	2.38	0.59
32:2a:1485:A:H2'	32:2a:1486:G:C8	2.37	0.59
34:2c:28:GLN:HB3	34:2c:32:LEU:HD13	1.85	0.59
39:2h:17:THR:O	39:2h:20:TYR:HD1	1.85	0.59
39:2h:29:SER:HB3	39:2h:32:LYS:HD2	1.85	0.59
40:2i:110:GLU:HG2	40:2i:119:ALA:HB1	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:25:ILE:HA	44:2m:29:ARG:HD2	1.85	0.59
44:2m:50:GLU:O	44:2m:54:VAL:HG22	2.02	0.59
46:2o:7:GLU:O	46:2o:11:VAL:HG23	2.02	0.59
52:2u:7:ARG:O	52:2u:21:TYR:HD2	1.85	0.59
1:1A:928:G:O2'	1:1A:929:G:H5'	2.03	0.59
1:1A:965:G:O2'	1:1A:966:G:H5'	2.03	0.59
1:1A:1233:A:OP2	59:1A:4335:HOH:O	2.17	0.59
1:1A:1953:A:H2'	1:1A:1954:G:H5'	1.84	0.59
1:1A:2243:U:OP2	23:11:40:ARG:NH1	2.36	0.59
1:1A:2827:G:O2'	1:1A:2828:G:H5'	2.03	0.59
2:1B:105:A:H4'	21:1Z:89:PHE:CE1	2.37	0.59
3:1D:148:GLU:HB2	3:1D:151:LYS:HD2	1.85	0.59
3:1D:186:HIS:HB3	3:1D:189:CYS:SG	2.42	0.59
4:1E:144:ARG:HG2	4:1E:145:LYS:N	2.17	0.59
6:1G:64:THR:HB	6:1G:94:LEU:HD21	1.85	0.59
9:1N:73:THR:HA	9:1N:83:LYS:O	2.02	0.59
17:1V:80:GLN:HA	17:1V:82:ARG:NH1	2.17	0.59
20:1Y:83:THR:HG21	20:1Y:99:CYS:SG	2.43	0.59
21:1Z:7:ALA:O	21:1Z:62:PRO:HD3	2.03	0.59
32:1a:338:C:N4	32:1a:343:G:O6	2.19	0.59
32:1a:1043:C:OP1	45:1n:45:ARG:NH2	2.36	0.59
32:1a:1209:A:H5'	44:1m:111:LYS:HZ3	1.68	0.59
33:1b:167:PRO:O	33:1b:171:ALA:N	2.36	0.59
33:1b:178:ARG:CG	39:1h:72:PRO:HA	2.33	0.59
37:1f:27:GLN:HA	37:1f:30:LEU:HD12	1.85	0.59
37:1f:99:ALA:HB3	49:1r:29:PHE:CD1	2.37	0.59
44:1m:80:ARG:HG3	44:1m:81:LEU:N	2.18	0.59
47:1p:51:VAL:HG21	47:1p:77:ALA:HB2	1.84	0.59
47:1p:53:VAL:HG13	47:1p:79:VAL:HG12	1.84	0.59
50:1s:36:ARG:NE	50:1s:72:GLY:HA2	2.18	0.59
1:2A:581:G:H2'	1:2A:582:C:H6	1.68	0.59
1:2A:647:G:H2'	1:2A:648:C:C6	2.38	0.59
1:2A:1076:G:N2	31:29:36:GLN:HE22	2.01	0.59
1:2A:1159:G:O2'	1:2A:1160:G:H5'	2.03	0.59
1:2A:1859:A:H2'	3:2D:15:PHE:HE2	1.68	0.59
1:2A:1879:G:H2'	1:2A:1880:G:H8	1.68	0.59
1:2A:2140:A:H61	1:2A:2189:G:N2	2.01	0.59
7:2H:27:LYS:HG2	7:2H:32:GLU:HB2	1.84	0.59
17:2V:57:VAL:HA	17:2V:99:ILE:HA	1.85	0.59
32:2a:17:A:O2'	32:2a:18:U:H5'	2.03	0.59
32:2a:419:G:H2'	32:2a:420:G:C5'	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:901:A:N6	32:2a:1375:G:O6	2.35	0.59
32:2a:910:C:O2'	32:2a:911:G:H5'	2.02	0.59
32:2a:1044:G:H5"	41:2j:59:SER:HB2	1.85	0.59
36:2e:63:ARG:O	36:2e:66:MET:HG2	2.03	0.59
36:2e:126:ARG:HA	36:2e:131:ILE:HD11	1.85	0.59
42:2k:46:GLY:HA2	42:2k:50:TYR:O	2.03	0.59
42:2k:85:ARG:HB2	42:2k:113:PRO:HD3	1.84	0.59
1:1A:562:G:O6	59:1A:4309:HOH:O	2.15	0.58
1:1A:605:G:N7	59:1A:4485:HOH:O	2.32	0.58
1:1A:889:G:H1	1:1A:979:C:H42	1.49	0.58
1:1A:1071:U:O2	1:1A:1071:U:H2'	2.03	0.58
1:1A:1354:G:O6	59:1A:4312:HOH:O	2.15	0.58
1:1A:1930:C:O2'	1:1A:1931:G:H5'	2.02	0.58
1:1A:2603:G:N7	59:1A:4484:HOH:O	2.32	0.58
1:1A:2893:U:H2'	1:1A:2894:C:H5'	1.85	0.58
3:1D:206:LEU:HA	3:1D:211:ARG:HE	1.67	0.58
6:1G:11:TYR:HA	6:1G:15:VAL:CG2	2.33	0.58
6:1G:62:LEU:O	6:1G:143:GLU:HG2	2.03	0.58
9:1N:41:ASP:O	9:1N:48:MET:HE1	2.02	0.58
10:1O:15:GLY:HA2	10:1O:47:ILE:HG12	1.85	0.58
11:1P:125:VAL:HG21	11:1P:138:LEU:HD21	1.84	0.58
30:18:23:VAL:O	55:18:104:MPD:H53	2.03	0.58
32:1a:122:G:H5'	48:1q:2:PRO:N	2.17	0.58
32:1a:1232:A:H4'	40:1i:68:GLY:H	1.66	0.58
32:1a:1242:C:C5'	32:1a:1266:C:H4'	2.33	0.58
33:1b:171:ALA:HA	33:1b:174:VAL:HB	1.84	0.58
37:1f:94:GLN:CD	49:1r:32:ARG:HD3	2.28	0.58
39:1h:39:LEU:C	39:1h:45:ILE:HG12	2.28	0.58
40:1i:49:PRO:O	40:1i:52:ALA:N	2.34	0.58
41:1j:51:ARG:HG3	41:1j:60:ARG:O	2.02	0.58
43:1l:26:ALA:HB3	43:1l:98:TYR:HE2	1.66	0.58
44:1m:14:ARG:N	44:1m:44:ARG:HH11	2.01	0.58
50:1s:19:VAL:HG11	50:1s:44:MET:CG	2.32	0.58
1:2A:212:G:H2'	1:2A:213:A:O4'	2.03	0.58
1:2A:420:A:C2'	1:2A:421:U:H5'	2.33	0.58
1:2A:1466:G:O2'	1:2A:1467:G:H5'	2.03	0.58
1:2A:1761:G:C2'	1:2A:1762:G:H5'	2.33	0.58
1:2A:1816:A:H1'	1:2A:1959:A:N6	2.18	0.58
1:2A:2007:A:OP1	59:2A:3871:HOH:O	2.17	0.58
1:2A:2136:G:N2	1:2A:2192:A:H61	1.99	0.58
1:2A:2390:G:P	14:2S:23:ARG:HH21	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2431:C:P	30:28:33:ASN:H	2.26	0.58
1:2A:2436:A:H5"	1:2A:2438:C:O4'	2.03	0.58
5:2F:47:GLY:O	5:2F:94:PRO:HA	2.03	0.58
20:2Y:20:TYR:CE2	20:2Y:43:ASN:HA	2.38	0.58
23:21:88:LYS:O	23:21:92:LYS:HG3	2.02	0.58
27:25:51:TYR:CD1	27:25:56:LYS:HA	2.38	0.58
32:2a:483:A:H4'	32:2a:484:G:OP1	2.01	0.58
32:2a:502:C:OP2	32:2a:514:G:O2'	2.20	0.58
32:2a:752:A:OP2	59:2a:1933:HOH:O	2.17	0.58
32:2a:917:G:C2'	32:2a:918:C:H5'	2.32	0.58
32:2a:939:U:H2'	32:2a:940:C:H5'	1.84	0.58
32:2a:943:A:H4'	32:2a:944:M2G:O5'	2.03	0.58
32:2a:1188:G:H4'	34:2c:192:THR:O	2.02	0.58
32:2a:1479:C:OP1	32:2a:1486:G:H4'	2.03	0.58
35:2d:150:GLU:HG2	35:2d:151:LYS:N	2.16	0.58
1:1A:308:C:O2'	1:1A:309:C:H5'	2.03	0.58
1:1A:440:C:O2	1:1A:1894:U:O2'	2.18	0.58
1:1A:615:G:H4'	30:18:63:PRO:HB3	1.85	0.58
1:1A:705:C:H2'	1:1A:706:G:H5'	1.84	0.58
1:1A:1100:G:O6	1:1A:1149:C:N3	2.36	0.58
1:1A:1946:C:O2'	1:1A:1947:U:H5'	2.03	0.58
1:1A:2099:C:H1'	1:1A:2445:A:H1'	1.83	0.58
1:1A:2166:C:OP2	1:1A:2167:C:N4	2.36	0.58
1:1A:2735:C:H4'	13:1R:1:MET:SD	2.43	0.58
4:1E:179:GLU:HB3	4:1E:181:LEU:HD13	1.85	0.58
32:1a:273:C:O2'	32:1a:274:G:H5'	2.02	0.58
32:1a:273:C:H2'	32:1a:274:G:H8	1.67	0.58
33:1b:15:VAL:HG23	33:1b:209:ARG:HD3	1.83	0.58
35:1d:154:ASN:HA	35:1d:159:ARG:NH2	2.17	0.58
40:1i:97:LYS:HB3	40:1i:98:PRO:HD3	1.85	0.58
41:1j:4:ILE:N	41:1j:100:THR:HA	2.18	0.58
42:1k:65:ALA:HB1	42:1k:98:LEU:CD2	2.33	0.58
1:2A:346:G:O2'	1:2A:1249:U:N3	2.17	0.58
1:2A:508:A:N3	20:2Y:59:GLY:HA2	2.19	0.58
1:2A:676:C:C2'	1:2A:677:A:H5'	2.33	0.58
1:2A:1001:A:OP1	12:2Q:76:LYS:HG3	2.03	0.58
1:2A:1230:G:C2	1:2A:1231:G:H1'	2.38	0.58
1:2A:2266:G:H1	1:2A:2286:C:N4	2.00	0.58
1:2A:2414:C:O2'	1:2A:2415:C:H5'	2.01	0.58
4:2E:84:PHE:CD2	4:2E:86:PRO:HD3	2.38	0.58
10:2O:78:ARG:C	10:2O:79:PHE:HD1	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:28:17:THR:OG1	30:28:21:LYS:N	2.36	0.58
30:28:33:ASN:HB3	30:28:41:ILE:HD11	1.84	0.58
32:2a:131:C:H42	32:2a:223:G:H1	1.49	0.58
32:2a:293:G:N2	32:2a:296:A:OP2	2.35	0.58
32:2a:337:C:O2'	32:2a:338:C:H5'	2.02	0.58
32:2a:390:G:C2'	32:2a:391:C:H5'	2.32	0.58
32:2a:1050:A:H1'	32:2a:1051:G:OP2	2.03	0.58
32:2a:1083:C:O2'	32:2a:1085:A:OP1	2.10	0.58
32:2a:1191:C:O2'	32:2a:1196:C:N4	2.36	0.58
34:2c:131:ARG:NH2	36:2e:50:GLU:HG3	2.16	0.58
38:2g:126:ASP:O	38:2g:130:GLY:N	2.32	0.58
49:2r:32:ARG:HA	49:2r:69:THR:HG21	1.84	0.58
1:1A:217:A:H5'	1:1A:218:U:O4'	2.03	0.58
1:1A:1276:G:H2'	1:1A:1277:G:C8	2.38	0.58
1:1A:1936:5MU:H2'	1:1A:1937:A:H8	1.69	0.58
1:1A:2114:G:O3'	8:1I:22:LYS:HD2	2.03	0.58
1:1A:2442:U:H2'	1:1A:2444:A:OP2	2.03	0.58
1:1A:2758:U:C2'	1:1A:2759:G:H5'	2.34	0.58
5:1F:196:LEU:HA	5:1F:199:TRP:HB3	1.86	0.58
6:1G:127:GLY:HA2	6:1G:166:ASP:OD2	2.03	0.58
7:1H:137:ASP:OD1	7:1H:138:LYS:N	2.35	0.58
8:1I:25:TYR:CE2	8:1I:30:LEU:HD11	2.38	0.58
8:1I:69:LYS:HG2	8:1I:73:GLU:HG3	1.85	0.58
30:18:22:VAL:CG2	30:18:55:ALA:HB1	2.32	0.58
32:1a:166:A:H2'	32:1a:167:A:C8	2.38	0.58
32:1a:632:A:O2'	32:1a:633:G:H5'	2.03	0.58
32:1a:929:G:H1'	32:1a:948:C:O2'	2.04	0.58
35:1d:5:ILE:HA	35:1d:115:ARG:HH22	1.67	0.58
44:1m:99:ARG:HB2	44:1m:101:GLN:NE2	2.16	0.58
49:1r:70:ILE:HG23	49:1r:79:LEU:HD13	1.85	0.58
51:1t:47:GLY:HA2	51:1t:48:LYS:CB	2.20	0.58
52:1u:20:LYS:C	52:1u:21:TYR:HD1	2.11	0.58
1:2A:489:U:H4'	29:27:5:TRP:CZ3	2.38	0.58
1:2A:522:G:O2'	1:2A:523:U:H5'	2.03	0.58
1:2A:889:G:H1	1:2A:979:C:H42	1.50	0.58
1:2A:1076:G:H21	31:29:36:GLN:HE22	1.50	0.58
1:2A:1464:A:O2'	1:2A:1465:U:O5'	2.18	0.58
1:2A:1492:C:H2'	1:2A:1493:G:C8	2.38	0.58
1:2A:2136:G:H21	1:2A:2192:A:N6	2.01	0.58
1:2A:2442:U:O4	59:2A:3853:HOH:O	2.14	0.58
1:2A:2649:G:P	4:2E:82:ARG:HH12	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2690:A:C2'	1:2A:2691:C:H5'	2.33	0.58
5:2F:52:LYS:O	5:2F:88:VAL:HG12	2.03	0.58
6:2G:11:TYR:HE1	6:2G:172:LEU:HD11	1.68	0.58
6:2G:70:VAL:HA	6:2G:90:LEU:HD23	1.84	0.58
7:2H:52:VAL:HG12	7:2H:65:HIS:CD2	2.38	0.58
11:2P:39:LYS:HB2	11:2P:45:LEU:HD21	1.84	0.58
15:2T:18:ASP:OD1	15:2T:19:LEU:N	2.36	0.58
21:2Z:5:LEU:HB3	21:2Z:59:LEU:CD2	2.33	0.58
32:2a:372:G:H5"	47:2p:5:ARG:HD2	1.84	0.58
32:2a:726:G:OP2	46:2o:35:ARG:NH2	2.29	0.58
32:2a:735:U:H1'	46:2o:23:GLY:O	2.04	0.58
32:2a:855:C:C2'	32:2a:856:G:H5'	2.33	0.58
33:2b:56:ARG:HA	33:2b:59:GLU:HB3	1.85	0.58
33:2b:185:ILE:O	33:2b:186:ALA:HB2	2.03	0.58
35:2d:18:LYS:NZ	35:2d:26:CYS:HA	2.18	0.58
42:2k:45:GLY:O	42:2k:48:ILE:N	2.33	0.58
44:2m:16:ASP:OD1	44:2m:17:VAL:N	2.35	0.58
46:2o:62:GLN:HG3	46:2o:66:LEU:HD11	1.84	0.58
1:1A:718:C:O2'	59:1A:4201:HOH:O	2.08	0.58
1:1A:1753:G:O2'	59:1A:4279:HOH:O	2.13	0.58
1:1A:1875:G:O2'	1:1A:1876:G:H5'	2.02	0.58
1:1A:2298:A:O2'	1:1A:2299:A:H3'	2.03	0.58
1:1A:2308:C:H2'	1:1A:2309:A:H8	1.67	0.58
4:1E:12:THR:HG21	15:1T:11:GLU:OE2	2.03	0.58
5:1F:46:ARG:N	59:1F:413:HOH:O	2.35	0.58
13:1R:41:ALA:O	13:1R:44:LEU:N	2.33	0.58
32:1a:176:G:O2'	32:1a:178:G:O6	2.18	0.58
32:1a:738:C:H3'	32:1a:738:C:O2	2.04	0.58
32:1a:775:G:N2	32:1a:1475:G:O3'	2.35	0.58
32:1a:860:C:N4	43:1l:5:PRO:HB3	2.19	0.58
32:1a:1288:A:H2'	32:1a:1289:U:H5'	1.83	0.58
34:1c:58:GLU:HB2	34:1c:65:ALA:HB3	1.84	0.58
35:1d:47:ARG:O	35:1d:47:ARG:HG3	2.03	0.58
35:1d:173:TRP:CE3	35:1d:174:LEU:HG	2.38	0.58
40:1i:18:PHE:N	40:1i:18:PHE:CD1	2.69	0.58
40:1i:26:VAL:CB	40:1i:33:PHE:HB2	2.33	0.58
43:1l:59:ARG:C	43:1l:60:LEU:HD12	2.29	0.58
43:1l:117:ARG:HH12	43:1l:123:LYS:C	2.11	0.58
47:1p:49:LEU:HD22	47:1p:73:LEU:HD13	1.86	0.58
50:1s:39:THR:HG23	50:1s:69:HIS:O	2.01	0.58
1:2A:222:C:O2'	1:2A:223:U:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:470:C:C2'	1:2A:471:G:H5'	2.33	0.58
1:2A:602:C:O2'	1:2A:603:C:H5'	2.04	0.58
1:2A:719:C:C2'	1:2A:720:G:H5'	2.33	0.58
1:2A:1297:G:C6	16:2U:36:ARG:HD2	2.38	0.58
1:2A:1548:U:O2'	1:2A:1549:C:H5'	2.03	0.58
1:2A:1718:C:H5"	1:2A:1719:U:OP2	2.03	0.58
1:2A:1820:C:O2'	3:2D:209:ALA:HB2	2.03	0.58
1:2A:1892:G:O2'	1:2A:1893:G:H5'	2.03	0.58
1:2A:2158:C:C2	1:2A:2175:G:N1	2.66	0.58
1:2A:2305:C:OP1	14:2S:10:ARG:HD2	2.03	0.58
1:2A:2314:G:H4'	6:2G:125:PHE:O	2.02	0.58
1:2A:2372:A:N6	59:2A:3602:HOH:O	2.36	0.58
1:2A:2824:C:H2'	1:2A:2825:C:H6	1.69	0.58
5:2F:42:ALA:HB3	5:2F:99:TYR:HE1	1.68	0.58
6:2G:35:GLU:N	6:2G:160:VAL:O	2.20	0.58
6:2G:106:LEU:O	6:2G:110:ALA:N	2.36	0.58
17:2V:10:LYS:HE2	17:2V:12:TYR:OH	2.03	0.58
19:2X:26:TYR:CD2	19:2X:89:ILE:HD12	2.38	0.58
22:20:31:VAL:HG11	22:20:37:LEU:HD21	1.85	0.58
26:24:35:VAL:HG23	26:24:39:CYS:SG	2.44	0.58
32:2a:69:G:H1	32:2a:95:A:N6	1.99	0.58
32:2a:78:G:H1	32:2a:86:U:H3	1.49	0.58
32:2a:361:U:H5"	32:2a:362:C:OP1	2.04	0.58
32:2a:568:G:H2'	32:2a:569:G:C8	2.38	0.58
32:2a:704:C:O2'	49:2r:63:GLN:NE2	2.36	0.58
32:2a:1065:G:H2'	32:2a:1066:U:O4'	2.03	0.58
33:2b:80:ILE:HD13	33:2b:211:ILE:CG2	2.32	0.58
41:2j:27:ALA:HB1	41:2j:74:ILE:CD1	2.33	0.58
47:2p:41:PRO:O	47:2p:43:LYS:NZ	2.32	0.58
1:1A:511:C:H4'	18:1W:60:ASN:HD21	1.67	0.58
1:1A:2321:A:H2'	1:1A:2321:A:N3	2.17	0.58
59:1A:5442:HOH:O	4:1E:163:GLU:HB3	2.02	0.58
2:1B:74:U:H1'	21:1Z:34:ASN:HD21	1.68	0.58
2:1B:95:C:H3'	59:1B:302:HOH:O	2.02	0.58
2:1B:112:U:O2'	2:1B:113:G:H5'	2.04	0.58
11:1P:33:ARG:HG2	11:1P:40:SER:HA	1.85	0.58
17:1V:98:GLU:OE2	17:1V:100:ARG:HD3	2.03	0.58
23:11:2:SER:HA	23:11:43:TYR:CD1	2.39	0.58
28:16:21:TYR:HE2	28:16:38:LYS:HE2	1.68	0.58
32:1a:78:G:C6	32:1a:86:U:N3	2.71	0.58
32:1a:224:A:C4'	47:1p:62:VAL:HG21	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:328:G:OP2	51:1t:10:LEU:HD12	2.03	0.58
32:1a:485:C:O2'	32:1a:486:G:H5'	2.03	0.58
32:1a:1337:G:O2'	32:1a:1338:G:H5'	2.03	0.58
33:1b:69:LEU:HB3	33:1b:162:ILE:HG22	1.84	0.58
33:1b:178:ARG:HH21	33:1b:196:LEU:C	2.11	0.58
39:1h:39:LEU:O	39:1h:45:ILE:HG12	2.04	0.58
39:1h:112:LEU:HD23	39:1h:133:LEU:HA	1.86	0.58
46:1o:63:ARG:CD	46:1o:87:ILE:HD11	2.34	0.58
1:2A:19:C:O2'	1:2A:20:A:H5'	2.03	0.58
1:2A:290:G:O6	59:2A:3864:HOH:O	2.16	0.58
1:2A:737:C:O2'	1:2A:738:C:H5'	2.03	0.58
1:2A:943:C:H2'	1:2A:944:A:O4'	2.04	0.58
1:2A:988:G:OP1	59:2A:3872:HOH:O	2.17	0.58
1:2A:2033:G:P	18:2W:11:ARG:HH22	2.26	0.58
12:2Q:21:THR:HG21	12:2Q:101:ARG:HB2	1.86	0.58
13:2R:66:VAL:HG12	13:2R:70:LEU:HD12	1.86	0.58
32:2a:398:G:O2'	32:2a:399:C:H5'	2.03	0.58
32:2a:443:A:P	32:2a:470:G:H22	2.26	0.58
32:2a:537:A:H4'	43:2l:27:LEU:CD2	2.34	0.58
32:2a:856:G:OP1	39:2h:88:LYS:HB3	2.04	0.58
32:2a:1321:A:H2'	32:2a:1322:A:O4'	2.04	0.58
32:2a:1393:G:H2'	32:2a:1394:C:H6	1.69	0.58
33:2b:115:LEU:CD1	33:2b:142:LEU:HG	2.33	0.58
35:2d:149:ALA:HB3	35:2d:152:SER:CB	2.34	0.58
39:2h:23:SER:HA	39:2h:63:LEU:HD13	1.86	0.58
39:2h:121:ASP:OD1	39:2h:122:ARG:N	2.35	0.58
40:2i:17:VAL:HG23	40:2i:63:ILE:HD11	1.84	0.58
41:2j:38:ILE:CD1	41:2j:71:LEU:HD22	2.32	0.58
42:2k:29:ILE:HG12	42:2k:44:SER:HB2	1.85	0.58
1:1A:580:G:P	9:1N:111:PRO:HD2	2.43	0.58
1:1A:1062:G:H1	1:1A:1190:C:H42	1.51	0.58
1:1A:1076:G:H1	1:1A:1168:C:H42	1.52	0.58
1:1A:1108:G:N2	1:1A:1120:C:N3	2.45	0.58
1:1A:1116:G:H1'	1:1A:1134:G:C5	2.39	0.58
1:1A:2306:C:OP1	14:1S:10:ARG:NH1	2.37	0.58
3:1D:75:ILE:HD13	3:1D:99:ASP:OD2	2.03	0.58
6:1G:4:ASP:O	26:14:25:TYR:OH	2.18	0.58
10:1O:16:ALA:CB	10:1O:52:VAL:HG21	2.29	0.58
21:1Z:135:GLU:O	21:1Z:136:PHE:HB3	2.03	0.58
32:1a:173:C:O2'	32:1a:174:A:H5'	2.04	0.58
32:1a:768:C:O2'	32:1a:769:G:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1126:G:H2'	32:1a:1127:G:C8	2.39	0.58
32:1a:1222:U:H1'	38:1g:38:LEU:HD21	1.84	0.58
33:1b:15:VAL:HG22	33:1b:209:ARG:HG3	1.85	0.58
41:1j:8:LEU:HB2	41:1j:70:ARG:HB2	1.86	0.58
44:1m:92:HIS:CE1	44:1m:98:VAL:HG21	2.38	0.58
1:2A:748:G:O2'	1:2A:749:U:H5'	2.04	0.58
1:2A:1145:C:H2'	1:2A:1146:U:H5'	1.86	0.58
1:2A:1165:G:C2'	1:2A:1166:C:H5'	2.33	0.58
1:2A:1765:G:H3'	1:2A:1766:A:H5"	1.86	0.58
1:2A:2872:C:H2'	1:2A:2873:G:C8	2.39	0.58
2:2B:43:C:H5"	26:24:1:MET:CG	2.32	0.58
8:2I:69:LYS:NZ	8:2I:136:VAL:HG13	2.18	0.58
10:2O:78:ARG:HH21	15:2T:103:ARG:HH22	1.49	0.58
18:2W:14:PRO:HA	18:2W:17:VAL:HG22	1.85	0.58
21:2Z:104:PHE:HB3	21:2Z:141:VAL:HG11	1.86	0.58
22:20:68:GLU:HB3	22:20:80:HIS:HB2	1.86	0.58
32:2a:176:G:N2	32:2a:177:U:O4	2.25	0.58
32:2a:640:C:H1'	46:2o:28:GLN:HE22	1.67	0.58
32:2a:1145:C:N4	32:2a:1156:G:H1	1.99	0.58
32:2a:1386:C:H1'	32:2a:1478:A:N1	2.18	0.58
33:2b:134:GLU:HA	33:2b:137:ARG:NH2	2.18	0.58
33:2b:229:VAL:HG12	33:2b:230:VAL:N	2.17	0.58
44:2m:97:PRO:HG3	44:2m:110:ARG:CB	2.33	0.58
45:2n:20:ALA:O	45:2n:21:TYR:HB3	2.02	0.58
50:2s:52:TYR:HD1	50:2s:56:GLN:O	1.86	0.58
1:1A:337:A:O2'	1:1A:338:G:H5'	2.03	0.58
1:1A:637:U:H5"	54:1A:3799:ARG:HB3	1.85	0.58
1:1A:1219:U:O2'	1:1A:1220:G:P	2.61	0.58
1:1A:1326:G:O2'	1:1A:1327:U:H5'	2.04	0.58
1:1A:1920:G:H2'	1:1A:1920:G:N3	2.18	0.58
1:1A:2230:G:O2'	1:1A:2231:G:H5'	2.04	0.58
3:1D:137:PRO:HB2	3:1D:140:THR:HG23	1.85	0.58
3:1D:142:VAL:CG2	3:1D:191:ALA:HB1	2.34	0.58
16:1U:66:ASN:OD1	16:1U:70:ARG:NE	2.37	0.58
32:1a:179:G:O4'	32:1a:220:C:H4'	2.03	0.58
32:1a:250:G:H5"	48:1q:69:LYS:CD	2.34	0.58
32:1a:914:C:H2'	32:1a:915:A:O4'	2.04	0.58
32:1a:1236:C:O4'	32:1a:1338:G:H5"	2.03	0.58
32:1a:1373:U:O2'	32:1a:1374:U:H5'	2.04	0.58
33:1b:104:ASN:O	33:1b:108:ILE:HG12	2.03	0.58
38:1g:69:VAL:O	38:1g:71:PRO:HD3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:966:G:O6	59:2A:3862:HOH:O	2.16	0.58
1:2A:1075:G:H2'	1:2A:1076:G:H8	1.67	0.58
1:2A:1121:C:C4'	1:2A:1122:A:OP1	2.49	0.58
1:2A:1770:G:O2'	1:2A:1771:C:H5'	2.04	0.58
1:2A:2031:G:OP2	59:2A:3868:HOH:O	2.17	0.58
1:2A:2082:G:C8	1:2A:2512:C:H1'	2.38	0.58
1:2A:2329:G:H21	14:2S:3:ARG:HD3	1.68	0.58
1:2A:2820:G:O2'	1:2A:2821:G:H5'	2.03	0.58
2:2B:2:C:H42	2:2B:119:G:H1	1.51	0.58
4:2E:143:ASN:HB2	4:2E:147:PRO:HD2	1.85	0.58
6:2G:132:ASN:O	6:2G:133:LEU:HB3	2.04	0.58
7:2H:101:ARG:NE	7:2H:117:PRO:HG2	2.19	0.58
8:2I:130:TYR:CE2	8:2I:132:PRO:HB3	2.38	0.58
9:2N:1:MET:HE1	16:2U:94:ASN:ND2	2.18	0.58
12:2Q:21:THR:CG2	12:2Q:101:ARG:HB2	2.33	0.58
26:24:2:LYS:HB2	26:24:5:ILE:HD11	1.86	0.58
28:26:38:LYS:HB2	28:26:49:HIS:CE1	2.38	0.58
32:2a:231:C:O2'	32:2a:232:G:H5'	2.04	0.58
32:2a:287:C:O2'	32:2a:288:G:H5'	2.04	0.58
32:2a:319:U:H4'	51:2t:22:ARG:CB	2.34	0.58
32:2a:1484:U:OP2	59:2a:1934:HOH:O	2.17	0.58
33:2b:60:ASP:OD1	33:2b:64:ARG:NE	2.36	0.58
33:2b:136:VAL:O	33:2b:139:LYS:HB3	2.04	0.58
33:2b:155:LEU:HD21	33:2b:159:PRO:HG3	1.85	0.58
34:2c:12:LEU:O	34:2c:14:ILE:HD12	2.03	0.58
38:2g:46:ALA:HA	38:2g:49:ILE:CD1	2.33	0.58
38:2g:137:LYS:O	38:2g:141:VAL:HG23	2.03	0.58
40:2i:23:ASN:CG	40:2i:25:LYS:HD3	2.28	0.58
48:2q:6:LEU:HD23	48:2q:23:VAL:HG21	1.85	0.58
1:1A:213:A:C2'	1:1A:214:G:H5'	2.34	0.58
1:1A:550:A:N6	1:1A:2637:C:H4'	2.18	0.58
1:1A:666:G:N2	1:1A:669:C:OP2	2.33	0.58
1:1A:1930:C:C2'	1:1A:1931:G:H5'	2.34	0.58
1:1A:2073:G:C8	4:1E:141:ILE:HD11	2.38	0.58
1:1A:2124:C:H2'	1:1A:2125:G:C5'	2.34	0.58
3:1D:148:GLU:OE1	3:1D:151:LYS:HE3	2.02	0.58
4:1E:2:LYS:NZ	4:1E:95:ILE:O	2.26	0.58
15:1T:73:GLU:OE2	15:1T:103:ARG:NE	2.37	0.58
20:1Y:76:CYS:HA	20:1Y:106:LEU:CD2	2.33	0.58
21:1Z:93:ASP:OD2	21:1Z:131:ARG:NH2	2.35	0.58
26:14:34:GLU:HG2	26:14:35:VAL:N	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1079:C:O2'	32:1a:1080:C:H5'	2.04	0.58
32:1a:1274:U:H4'	40:1i:38:GLN:NE2	2.18	0.58
33:1b:115:LEU:HD13	33:1b:145:LEU:CB	2.32	0.58
34:1c:19:GLU:HG2	34:1c:54:ARG:CZ	2.34	0.58
35:1d:107:ARG:NH1	35:1d:194:LEU:HD11	2.18	0.58
35:1d:121:VAL:HG11	35:1d:136:PRO:HA	1.85	0.58
42:1k:120:ARG:HG2	42:1k:121:PRO:O	2.03	0.58
50:1s:36:ARG:HH12	50:1s:75:ALA:CB	2.13	0.58
1:2A:264:U:H2'	1:2A:265:C:H6	1.69	0.58
1:2A:1407:C:C2'	1:2A:1408:C:H5'	2.34	0.58
1:2A:1733:G:H21	1:2A:1747:A:H62	1.51	0.58
1:2A:2010:G:H2'	1:2A:2011:C:H5'	1.85	0.58
1:2A:2330:G:H4'	1:2A:2331:A:H5"	1.86	0.58
1:2A:2382:G:N3	28:26:46:HIS:HE1	2.01	0.58
1:2A:2519:G:O2'	1:2A:2520:G:H5'	2.03	0.58
1:2A:2879:C:H2'	1:2A:2880:C:O4'	2.03	0.58
2:2B:21:G:O2'	2:2B:22:U:H5'	2.03	0.58
4:2E:67:PHE:O	4:2E:72:VAL:HG12	2.03	0.58
6:2G:107:LEU:HD21	6:2G:178:PHE:CE1	2.39	0.58
16:2U:10:ARG:HG2	16:2U:14:HIS:CE1	2.38	0.58
32:2a:961:A:H3'	32:2a:961:A:N3	2.19	0.58
32:2a:1076:A:C2	32:2a:1078:U:H5'	2.38	0.58
32:2a:1210:C:C5'	44:2m:108:ARG:HH22	2.16	0.58
34:2c:52:LEU:HD23	34:2c:53:ALA:N	2.19	0.58
38:2g:91:VAL:O	38:2g:96:GLN:NE2	2.37	0.58
44:2m:91:ARG:HH22	44:2m:103:THR:HG21	1.69	0.58
50:2s:40:ILE:HG22	50:2s:41:VAL:H	1.68	0.58
1:1A:2613:A:H4'	1:1A:2614:G:OP1	2.04	0.58
3:1D:21:PHE:HB3	3:1D:24:ILE:CG1	2.34	0.58
3:1D:127:VAL:HA	3:1D:193:VAL:HG23	1.85	0.58
5:1F:183:VAL:HG13	5:1F:184:TYR:N	2.19	0.58
6:1G:37:VAL:HB	6:1G:94:LEU:HB2	1.85	0.58
6:1G:74:LYS:O	6:1G:84:LYS:NZ	2.37	0.58
6:1G:107:LEU:HD21	6:1G:178:PHE:CD1	2.39	0.58
21:1Z:23:LYS:HD3	21:1Z:40:ASP:HA	1.85	0.58
32:1a:108:U:O2'	32:1a:109:G:H5'	2.04	0.58
33:1b:82:ARG:HA	33:1b:92:TYR:CE2	2.39	0.58
33:1b:91:PRO:HG2	33:1b:155:LEU:HD13	1.84	0.58
35:1d:70:ILE:HD12	35:1d:75:PHE:HB2	1.85	0.58
36:1e:124:GLY:O	36:1e:126:ARG:N	2.37	0.58
40:1i:6:GLY:O	40:1i:17:VAL:HG12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:1m:96:LEU:O	44:1m:110:ARG:NE	2.36	0.58
47:1p:19:ILE:CG2	47:1p:37:GLY:HA3	2.34	0.58
48:1q:86:GLU:O	48:1q:90:ILE:HG12	2.03	0.58
1:2A:82:A:H5"	20:2Y:8:LYS:CE	2.34	0.58
1:2A:909:A:H2'	1:2A:910:G:C8	2.38	0.58
1:2A:1107:G:H5'	1:2A:1115:A:H5"	1.85	0.58
1:2A:1381:A:OP2	19:2X:64:LYS:NZ	2.29	0.58
1:2A:1492:C:H2'	1:2A:1493:G:H8	1.68	0.58
1:2A:1931:G:O2'	1:2A:1932:PSU:H5"	2.04	0.58
1:2A:2082:G:H2'	1:2A:2512:C:HO2'	1.68	0.58
1:2A:2438:C:H5"	1:2A:2439:G:OP1	2.04	0.58
1:2A:2554:G:H2'	1:2A:2555:G:C8	2.39	0.58
1:2A:2614:G:O2'	1:2A:2615:U:H5'	2.04	0.58
1:2A:2784:C:OP1	4:2E:202:LYS:NZ	2.37	0.58
7:2H:3:ARG:NH1	7:2H:5:GLY:H	2.01	0.58
15:2T:46:GLU:O	15:2T:65:LYS:HD2	2.03	0.58
20:2Y:107:ASP:OD2	59:2Y:601:HOH:O	2.17	0.58
21:2Z:193:GLU:HG2	21:2Z:194:PRO:HD2	1.86	0.58
23:21:49:VAL:CG1	23:21:70:VAL:HG11	2.34	0.58
32:2a:283:U:O2'	32:2a:284:A:H5'	2.04	0.58
32:2a:584:C:O2'	32:2a:585:C:H5'	2.04	0.58
32:2a:1265:G:O2'	32:2a:1266:C:H5'	2.03	0.58
32:2a:1386:C:O2'	32:2a:1387:5MC:H5'	2.04	0.58
32:2a:1395:C:H2'	32:2a:1396:A:C8	2.39	0.58
36:2e:134:ALA:O	36:2e:137:GLU:N	2.37	0.58
1:1A:877:G:O4'	59:1A:4331:HOH:O	2.16	0.58
1:1A:1421:C:OP2	59:1A:4338:HOH:O	2.17	0.58
1:1A:2653:G:OP1	9:1N:76:SER:OG	2.21	0.58
3:1D:70:TRP:CH2	3:1D:150:LYS:HD2	2.39	0.58
4:1E:77:ILE:O	4:1E:78:LEU:HD12	2.04	0.58
12:1Q:31:ASP:N	12:1Q:106:VAL:O	2.35	0.58
14:1S:36:TYR:N	14:1S:36:TYR:CD1	2.72	0.58
14:1S:99:LYS:HE2	14:1S:103:GLU:OE2	2.04	0.58
15:1T:42:ILE:HG21	15:1T:84:GLN:OE1	2.04	0.58
16:1U:65:ILE:HG22	16:1U:69:CYS:SG	2.43	0.58
32:1a:18:U:H1'	32:1a:1063:A:H1'	1.85	0.58
32:1a:28:G:H2'	32:1a:29:G:H8	1.69	0.58
32:1a:307:C:O2'	32:1a:308:C:H5'	2.04	0.58
32:1a:814:G:H2'	32:1a:815:U:C6	2.39	0.58
32:1a:897:A:O2'	32:1a:898:U:H5'	2.03	0.58
32:1a:1388:G:O4'	32:1a:1497:MA6:H4'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1e:93:PRO:HG2	39:1h:105:ARG:HE	1.68	0.58
44:1m:108:ARG:NH2	44:1m:114:ARG:HG2	2.19	0.58
1:2A:825:U:OP1	3:2D:49:ILE:HG13	2.04	0.58
1:2A:997:A:H2'	1:2A:998:G:C8	2.34	0.58
1:2A:2127:G:H2'	1:2A:2128:C:H4'	1.86	0.58
1:2A:2131:G:OP1	1:2A:2139:U:N3	2.33	0.58
1:2A:2653:G:H5"	9:2N:78:TYR:CD2	2.39	0.58
5:2F:157:VAL:CG1	5:2F:178:PRO:HA	2.34	0.58
7:2H:33:LEU:HD23	7:2H:136:ILE:HD12	1.85	0.58
9:2N:91:LEU:CD2	9:2N:98:VAL:HG21	2.33	0.58
24:22:46:GLN:O	24:22:48:HIS:N	2.36	0.58
32:2a:337:C:C2'	32:2a:338:C:H5'	2.33	0.58
32:2a:412:G:O6	59:2a:1931:HOH:O	2.15	0.58
32:2a:420:G:O2'	32:2a:421:G:H5'	2.04	0.58
32:2a:1470:A:H5"	43:2l:47:LYS:HG2	1.86	0.58
34:2c:83:ARG:O	34:2c:87:LEU:N	2.35	0.58
34:2c:114:PRO:HD3	34:2c:184:TYR:O	2.04	0.58
34:2c:130:VAL:HG12	34:2c:134:ILE:CD1	2.34	0.58
39:2h:95:VAL:HB	39:2h:99:GLU:CG	2.34	0.58
1:1A:635:G:O2'	1:1A:639:A:N1	2.36	0.57
1:1A:829:A:OP2	59:1A:4029:HOH:O	2.17	0.57
1:1A:1803:A:C2'	1:1A:1804:C:H5'	2.33	0.57
1:1A:1969:G:O2'	1:1A:1970:G:H5'	2.04	0.57
1:1A:2215:G:O2'	1:1A:2216:C:H5'	2.03	0.57
1:1A:2404:A:O2'	11:1P:60:MET:O	2.18	0.57
5:1F:103:LYS:O	5:1F:106:ARG:N	2.35	0.57
16:1U:32:PHE:O	16:1U:35:ALA:N	2.37	0.57
21:1Z:129:SER:OG	21:1Z:131:ARG:HG2	2.04	0.57
23:11:64:ALA:HA	23:11:67:ILE:HD11	1.85	0.57
23:11:79:GLY:C	23:11:80:LEU:HD12	2.29	0.57
32:1a:700:A:N3	42:1k:118:GLY:HA2	2.19	0.57
32:1a:853:C:O2'	39:1h:14:ARG:NE	2.27	0.57
32:1a:1153:G:H2'	32:1a:1154:C:C6	2.38	0.57
32:1a:1230:A:C2'	32:1a:1231:C:H5'	2.33	0.57
32:1a:1288:A:H1'	32:1a:1314:A:C2	2.39	0.57
32:1a:1296:C:H2'	32:1a:1297:U:H6	1.69	0.57
32:1a:1303:C:H4'	44:1m:87:TYR:CE2	2.39	0.57
32:1a:1320:G:H2'	32:1a:1321:A:C8	2.39	0.57
34:1c:30:ARG:HD2	45:1n:35:ARG:O	2.03	0.57
36:1e:11:ILE:HD12	36:1e:31:LEU:CD1	2.34	0.57
42:1k:14:VAL:O	42:1k:77:MET:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:235:G:H4'	1:2A:412:G:C6	2.39	0.57
1:2A:580:G:OP1	9:2N:111:PRO:HD2	2.04	0.57
1:2A:739:C:O2'	1:2A:740:U:H5'	2.04	0.57
1:2A:992:G:O2'	1:2A:993:C:H5'	2.03	0.57
1:2A:1805:U:OP1	1:2A:2000:C:O2'	2.21	0.57
1:2A:2188:U:H2'	1:2A:2189:G:C5	2.39	0.57
1:2A:2360:G:OP2	30:28:42:ARG:NH2	2.36	0.57
1:2A:2389:A:H2'	14:2S:21:THR:HG21	1.84	0.57
1:2A:2520:G:O2'	1:2A:2521:C:H5'	2.04	0.57
1:2A:2538:C:H2'	1:2A:2539:U:O4'	2.03	0.57
3:2D:8:PRO:HB3	3:2D:14:ARG:HG3	1.86	0.57
7:2H:68:THR:O	7:2H:72:ILE:HG13	2.04	0.57
10:2O:15:GLY:O	10:2O:47:ILE:HG13	2.04	0.57
10:2O:18:LYS:HD2	10:2O:45:GLU:OE1	2.03	0.57
12:2Q:31:ASP:HA	12:2Q:134:ARG:NH1	2.18	0.57
12:2Q:92:GLY:C	12:2Q:93:TYR:HD1	2.12	0.57
18:2W:7:ALA:HB2	18:2W:50:VAL:HG22	1.86	0.57
21:2Z:44:PHE:O	21:2Z:47:VAL:N	2.33	0.57
25:23:15:TYR:O	25:23:20:LYS:NZ	2.38	0.57
25:23:51:ALA:C	25:23:53:LEU:H	2.11	0.57
32:2a:257:U:H2'	32:2a:259:A:OP2	2.04	0.57
32:2a:1046:C:H2'	32:2a:1047:G:C8	2.39	0.57
32:2a:1179:G:C2'	32:2a:1180:G:H5'	2.34	0.57
33:2b:19:HIS:O	33:2b:20:GLU:HB2	2.04	0.57
34:2c:35:GLU:O	34:2c:38:ARG:HB2	2.04	0.57
36:2e:88:LYS:N	36:2e:123:LEU:O	2.36	0.57
50:2s:27:GLU:HG3	50:2s:47:HIS:CD2	2.39	0.57
50:2s:50:ALA:HA	50:2s:59:PRO:CA	2.32	0.57
1:1A:63:C:H1'	19:1X:69:TYR:HD2	1.69	0.57
1:1A:373:U:H2'	1:1A:374:G:O4'	2.05	0.57
1:1A:773:A:C2	3:1D:9:TYR:CD2	2.93	0.57
1:1A:2527:G:O2'	1:1A:2528:C:H5'	2.04	0.57
1:1A:2623:C:H2'	1:1A:2624:U:H5'	1.86	0.57
1:1A:2798:U:C2'	1:1A:2799:C:H5'	2.34	0.57
30:18:61:LEU:O	30:18:63:PRO:HD3	2.04	0.57
32:1a:61:A:H4'	32:1a:62:G:H5'	1.86	0.57
32:1a:921:U:O2'	40:1i:124:GLN:NE2	2.27	0.57
32:1a:982:G:H21	32:1a:983:A:H1'	1.68	0.57
32:1a:1173:A:OP1	34:1c:3:ASN:ND2	2.36	0.57
38:1g:144:MET:HA	38:1g:147:ALA:HB3	1.86	0.57
41:1j:21:GLN:HE21	41:1j:25:GLU:CG	2.14	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:1q:52:LYS:N	48:1q:55:ASP:OD2	2.33	0.57
1:2A:386:G:O2'	1:2A:387:A:H5'	2.04	0.57
1:2A:1083:C:N4	1:2A:1162:G:H1	1.97	0.57
1:2A:1108:G:H2'	1:2A:1110:U:H6	1.69	0.57
1:2A:1409:G:OP2	23:21:3:LYS:HG3	2.03	0.57
1:2A:1448:C:H2'	1:2A:1449:C:H5'	1.85	0.57
1:2A:1717:U:H2'	1:2A:1718:C:H5"	1.86	0.57
1:2A:2119:U:C3'	1:2A:2120:U:H5"	2.33	0.57
1:2A:2127:G:O6	1:2A:2204:C:N3	2.37	0.57
1:2A:2330:G:C4'	1:2A:2331:A:H5"	2.34	0.57
1:2A:2652:G:OP1	9:2N:74:ARG:NH1	2.37	0.57
2:2B:19:G:H1	2:2B:64:C:H42	1.50	0.57
5:2F:184:TYR:CD2	5:2F:188:ARG:HD2	2.39	0.57
6:2G:33:ARG:O	6:2G:161:THR:HG23	2.04	0.57
10:2O:98:VAL:C	10:2O:99:PHE:HD1	2.11	0.57
24:22:27:GLU:O	24:22:30:ARG:HB3	2.04	0.57
32:2a:18:U:C1'	32:2a:1063:A:H1'	2.31	0.57
32:2a:94:C:H2'	32:2a:95:A:O4'	2.04	0.57
32:2a:121:G:H1	32:2a:230:C:H42	1.52	0.57
32:2a:204:A:C6	32:2a:217:C:H4'	2.39	0.57
32:2a:843:A:H2	32:2a:896:A:H4'	1.68	0.57
32:2a:1157:G:O2'	32:2a:1158:A:H5'	2.03	0.57
32:2a:1273:G:C4'	40:2i:39:GLY:HA3	2.33	0.57
34:2c:181:ASN:O	34:2c:204:LEU:N	2.37	0.57
35:2d:108:LEU:HD12	35:2d:170:VAL:HG11	1.86	0.57
35:2d:155:LEU:HD23	35:2d:156:GLU:N	2.19	0.57
38:2g:15:ASP:OD1	38:2g:20:ASP:N	2.37	0.57
38:2g:73:MET:HE1	38:2g:90:GLU:HG3	1.86	0.57
44:2m:49:THR:O	44:2m:53:VAL:HG23	2.04	0.57
1:1A:62:A:O3'	19:1X:71:GLY:HA3	2.04	0.57
1:1A:494:G:O2'	1:1A:495:A:O4'	2.17	0.57
1:1A:559:C:C2'	1:1A:560:A:H5'	2.34	0.57
1:1A:724:C:H42	1:1A:845:G:H1	1.52	0.57
1:1A:749:U:C2'	1:1A:750:G:H5'	2.34	0.57
1:1A:814:G:N2	59:1A:3964:HOH:O	2.36	0.57
1:1A:1511:G:O6	59:1A:4320:HOH:O	2.16	0.57
2:1B:16:G:O2'	2:1B:17:C:H5'	2.04	0.57
6:1G:23:PHE:CZ	6:1G:168:GLU:HA	2.39	0.57
8:1I:123:LEU:CD2	8:1I:144:VAL:HG12	2.34	0.57
16:1U:60:LEU:O	16:1U:63:VAL:N	2.37	0.57
17:1V:20:LEU:HA	59:1V:308:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:9:TYR:HE1	21:1Z:61:LEU:HD23	1.67	0.57
24:12:3:LEU:O	24:12:6:VAL:N	2.37	0.57
32:1a:57:U:H2'	32:1a:58:G:H8	1.68	0.57
32:1a:649:A:H1'	32:1a:717:A:O4'	2.04	0.57
32:1a:971:G:N2	32:1a:1029:A:H1'	2.20	0.57
32:1a:1116:G:O6	32:1a:1124:C:N3	2.37	0.57
35:1d:59:ARG:O	35:1d:61:LYS:N	2.38	0.57
35:1d:67:ILE:HG22	35:1d:68:TYR:HD1	1.70	0.57
35:1d:111:ALA:HB1	35:1d:116:GLN:OE1	2.04	0.57
50:1s:20:LEU:HD23	50:1s:23:ASN:ND2	2.11	0.57
1:2A:53:G:O2'	1:2A:124:A:N1	2.28	0.57
1:2A:470:C:H2'	1:2A:471:G:H5'	1.86	0.57
1:2A:1346:A:O2'	1:2A:1347:A:H3'	2.03	0.57
1:2A:1407:C:O2'	1:2A:1408:C:H5'	2.03	0.57
1:2A:1750:G:O2'	1:2A:1751:G:H5'	2.03	0.57
1:2A:2091:G:O2'	1:2A:2092:A:H5'	2.04	0.57
1:2A:2222:C:O2'	1:2A:2223:C:H5'	2.05	0.57
1:2A:2548:U:H2'	1:2A:2549:C:C6	2.39	0.57
1:2A:2817:U:H2'	1:2A:2818:A:H8	1.68	0.57
4:2E:101:ARG:CG	4:2E:169:ASN:HD22	2.14	0.57
6:2G:161:THR:HG22	6:2G:163:ALA:N	2.20	0.57
7:2H:94:TYR:HE2	7:2H:160:LYS:HG2	1.69	0.57
19:2X:28:PHE:CD1	19:2X:28:PHE:N	2.72	0.57
30:28:40:GLU:CG	30:28:44:LYS:HE3	2.35	0.57
32:2a:1098:C:H2'	32:2a:1099:C:H5'	1.86	0.57
35:2d:134:ASP:C	35:2d:135:LEU:HD22	2.29	0.57
38:2g:42:ILE:HG23	38:2g:117:ALA:H	1.69	0.57
38:2g:132:GLY:O	38:2g:136:LYS:HG2	2.04	0.57
43:2l:102:ARG:HA	43:2l:107:ALA:HB1	1.86	0.57
51:2t:84:LEU:O	51:2t:88:VAL:HG23	2.04	0.57
1:1A:6:G:H2'	1:1A:7:A:H8	1.70	0.57
1:1A:9:G:N2	1:1A:2812:G:OP1	2.37	0.57
1:1A:365:G:C2'	1:1A:366:C:H5'	2.34	0.57
1:1A:405:G:O2'	1:1A:2243:U:OP1	2.18	0.57
1:1A:1430:G:H1'	1:1A:1431:C:C6	2.39	0.57
1:1A:2163:C:C2	1:1A:2170:G:N1	2.72	0.57
1:1A:2315:G:H22	1:1A:2323:U:H3	1.50	0.57
1:1A:2439:G:H5"	1:1A:2440:G:OP1	2.04	0.57
1:1A:2478:C:OP1	31:19:6:SER:OG	2.19	0.57
2:1B:48:A:H4'	14:1S:95:HIS:HD2	1.69	0.57
4:1E:152:LYS:HB3	9:1N:78:TYR:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:69:ALA:O	6:1G:91:ARG:N	2.38	0.57
6:1G:77:ILE:N	6:1G:82:LEU:O	2.27	0.57
9:1N:76:SER:OG	9:1N:81:GLY:HA3	2.04	0.57
10:1O:121:VAL:HG13	59:1O:8101:HOH:O	2.05	0.57
11:1P:59:LEU:HD11	30:18:9:GLY:O	2.05	0.57
12:1Q:61:GLY:CA	21:1Z:177:PRO:HB2	2.35	0.57
16:1U:52:ARG:HG3	16:1U:55:ARG:HG2	1.85	0.57
17:1V:73:SER:HA	59:1V:306:HOH:O	2.04	0.57
30:18:23:VAL:HG12	30:18:47:LYS:HD3	1.86	0.57
32:1a:160:C:O2'	32:1a:161:G:H5'	2.05	0.57
32:1a:584:C:O2'	32:1a:585:C:H5'	2.03	0.57
32:1a:629:C:H2'	32:1a:630:U:H6	1.69	0.57
32:1a:639:A:O2'	32:1a:640:C:H5'	2.04	0.57
32:1a:959:U:O5'	32:1a:960:U:H2'	2.04	0.57
32:1a:1050:A:HO2'	32:1a:1051:G:P	2.20	0.57
32:1a:1143:G:OP1	33:1b:133:LYS:NZ	2.36	0.57
32:1a:1279:C:O2	38:1g:114:ARG:NH1	2.37	0.57
32:1a:1304:C:H5"	44:1m:100:GLY:HA3	1.87	0.57
32:1a:1311:A:P	44:1m:28:ALA:HB3	2.44	0.57
33:1b:19:HIS:O	33:1b:20:GLU:HB2	2.03	0.57
35:1d:166:LYS:HD3	35:1d:178:VAL:HG11	1.85	0.57
35:1d:180:GLY:HA3	35:1d:182:LYS:NZ	2.20	0.57
37:1f:60:PHE:HE2	49:1r:78:LEU:HD21	1.69	0.57
50:1s:39:THR:HG22	50:1s:40:ILE:O	2.04	0.57
51:1t:47:GLY:CA	51:1t:48:LYS:HB2	2.28	0.57
51:1t:94:ALA:O	51:1t:95:ALA:CB	2.53	0.57
1:2A:875:A:N7	1:2A:2259:C:H5'	2.19	0.57
1:2A:1129:A:H3'	1:2A:1130:A:H4'	1.86	0.57
1:2A:1204:U:O2'	1:2A:1205:G:H5'	2.04	0.57
1:2A:1261:C:H2'	1:2A:1262:C:H5'	1.87	0.57
1:2A:1419:G:H2'	1:2A:1420:C:C6	2.40	0.57
1:2A:1820:C:OP2	1:2A:1858:G:N1	2.32	0.57
1:2A:1871:U:H2'	1:2A:1872:G:H5'	1.85	0.57
1:2A:2204:C:H2'	1:2A:2205:G:H8	1.69	0.57
1:2A:2583:A:H2'	4:2E:144:ARG:HD3	1.85	0.57
1:2A:2703:C:O2'	1:2A:2704:A:H5'	2.04	0.57
6:2G:72:ARG:HG2	6:2G:87:PRO:CA	2.35	0.57
6:2G:125:PHE:HB3	6:2G:166:ASP:OD1	2.03	0.57
8:2I:114:LEU:HD12	8:2I:129:THR:O	2.03	0.57
9:2N:78:TYR:HB3	9:2N:79:PRO:CD	2.34	0.57
10:2O:24:VAL:O	10:2O:24:VAL:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:33:GLY:O	12:2Q:132:VAL:HG22	2.04	0.57
21:2Z:136:PHE:HD1	21:2Z:136:PHE:N	2.02	0.57
32:2a:83:U:H4'	32:2a:85:C:N4	2.19	0.57
32:2a:153:G:O2'	32:2a:154:G:H5'	2.04	0.57
32:2a:220:C:H2'	32:2a:221:C:C6	2.39	0.57
32:2a:251:G:C5'	48:2q:17:LYS:HB2	2.34	0.57
32:2a:725:G:H5'	46:2o:39:LEU:HD12	1.84	0.57
32:2a:936:A:H3'	32:2a:937:A:C8	2.39	0.57
32:2a:984:A:O2'	32:2a:985:C:OP1	2.17	0.57
32:2a:1364:U:O2'	32:2a:1365:C:H5'	2.04	0.57
35:2d:11:LEU:HD23	35:2d:66:ARG:HD3	1.85	0.57
35:2d:58:LEU:HD22	35:2d:59:ARG:HH21	1.68	0.57
35:2d:98:GLU:HG3	35:2d:194:LEU:HD21	1.87	0.57
36:2e:37:ARG:N	36:2e:112:LEU:O	2.31	0.57
40:2i:20:ARG:HB2	40:2i:60:ASP:OD1	2.03	0.57
41:2j:12:ASP:HB3	41:2j:15:THR:CG2	2.34	0.57
50:2s:40:ILE:HG22	50:2s:41:VAL:N	2.19	0.57
1:1A:484:U:H5"	29:17:40:TRP:CD2	2.40	0.57
1:1A:504:A:HO2'	1:1A:506:G:H8	1.52	0.57
1:1A:550:A:O2'	1:1A:2064:C:O2	2.22	0.57
1:1A:654:G:N2	1:1A:657:A:OP2	2.35	0.57
1:1A:1107:G:P	1:1A:1115:A:H4'	2.44	0.57
1:1A:1164:C:O2'	1:1A:1165:G:H5'	2.04	0.57
1:1A:1220:G:C4'	1:1A:1221:A:OP1	2.49	0.57
1:1A:1295:G:OP1	59:1A:4341:HOH:O	2.18	0.57
1:1A:1354:G:H4'	29:17:7:PRO:HG2	1.86	0.57
1:1A:1468:G:OP1	1:1A:1537:G:O2'	2.22	0.57
1:1A:1765:G:H2'	1:1A:1768:G:O6	2.04	0.57
1:1A:2627:C:O2'	1:1A:2628:C:H5'	2.04	0.57
1:1A:2664:U:H3'	1:1A:2665:A:H8	1.70	0.57
4:1E:1:MET:HE1	4:1E:200:GLU:O	2.05	0.57
5:1F:110:LEU:HD13	5:1F:110:LEU:O	2.04	0.57
17:1V:24:LYS:HA	17:1V:92:THR:OG1	2.05	0.57
20:1Y:97:ARG:HH21	20:1Y:107:ASP:C	2.13	0.57
21:1Z:152:ALA:HB1	21:1Z:163:LEU:CD2	2.31	0.57
32:1a:17:A:C2'	32:1a:18:U:H5'	2.34	0.57
32:1a:129:A:H1'	32:1a:321:A:C5	2.39	0.57
32:1a:352:A:C2'	32:1a:353:G:H5'	2.34	0.57
32:1a:414:C:H2'	32:1a:415:C:H6	1.69	0.57
32:1a:691:C:H4'	42:1k:20:TYR:CE2	2.38	0.57
32:1a:928:U:H3	32:1a:1213:G:H1	0.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1331:A:H2'	32:1a:1332:A:H5'	1.87	0.57
35:1d:57:ARG:NE	35:1d:205:GLU:OE1	2.35	0.57
35:1d:104:VAL:O	35:1d:108:LEU:N	2.32	0.57
36:1e:68:GLU:O	36:1e:70:PRO:HD3	2.04	0.57
36:1e:144:THR:O	36:1e:148:VAL:HG23	2.04	0.57
38:1g:67:GLU:OE1	38:1g:70:LYS:HD2	2.05	0.57
40:1i:26:VAL:HG11	40:1i:33:PHE:CD1	2.40	0.57
46:1o:82:ILE:HG22	46:1o:87:ILE:HG21	1.86	0.57
48:1q:9:VAL:HG21	48:1q:84:LEU:CD1	2.34	0.57
52:1u:18:TYR:N	52:1u:18:TYR:CD1	2.71	0.57
1:2A:261:C:O2'	1:2A:262:C:H5'	2.05	0.57
1:2A:897:U:O2	25:23:42:ALA:HB1	2.04	0.57
1:2A:927:G:H1	1:2A:940:U:H3	1.51	0.57
1:2A:964:G:N2	1:2A:2280:A:OP2	2.36	0.57
1:2A:1114:A:C2	1:2A:1118:A:H5'	2.38	0.57
1:2A:1417:U:C2'	1:2A:1418:A:H5'	2.29	0.57
1:2A:2523:C:H2'	1:2A:2524:G:O4'	2.04	0.57
1:2A:2691:C:O2'	4:2E:11:MET:SD	2.63	0.57
1:2A:2744:G:OP1	4:2E:203:LYS:NZ	2.28	0.57
13:2R:93:GLY:O	13:2R:117:VAL:HG21	2.04	0.57
14:2S:15:ARG:HD3	14:2S:25:ARG:HH22	1.70	0.57
20:2Y:15:VAL:O	20:2Y:21:LYS:HA	2.05	0.57
20:2Y:89:PHE:CE1	20:2Y:95:LYS:HD3	2.39	0.57
21:2Z:42:VAL:O	21:2Z:46:LYS:HG2	2.05	0.57
23:21:67:ILE:O	23:21:70:VAL:HB	2.05	0.57
32:2a:53:G:H2'	32:2a:54:A:C8	2.39	0.57
32:2a:546:C:H1'	43:2l:15:ARG:HD2	1.85	0.57
32:2a:563:G:N1	32:2a:746:C:N3	2.43	0.57
32:2a:632:A:O2'	32:2a:633:G:H5'	2.04	0.57
32:2a:643:U:O2'	32:2a:644:G:H5'	2.04	0.57
32:2a:818:C:O2'	32:2a:819:U:H5'	2.05	0.57
32:2a:1435:G:OP1	51:2t:39:LYS:HE3	2.05	0.57
33:2b:201:ILE:O	33:2b:203:GLY:N	2.38	0.57
35:2d:149:ALA:HB3	35:2d:152:SER:OG	2.05	0.57
39:2h:87:SER:OG	39:2h:92:ARG:HD3	2.05	0.57
44:2m:17:VAL:HG23	44:2m:18:ALA:H	1.70	0.57
49:2r:52:PRO:HB2	49:2r:54:ARG:HG2	1.87	0.57
49:2r:72:ARG:O	49:2r:76:LEU:HD13	2.04	0.57
1:1A:556:A:H4'	1:1A:557:G:C8	2.40	0.57
1:1A:1743:G:OP2	1:1A:1744:A:O2'	2.08	0.57
1:1A:2214:G:O2'	1:1A:2215:G:H5'	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2296:C:OP2	28:16:6:ARG:NH1	2.37	0.57
1:1A:2335:C:H5"	1:1A:2336:G:C5'	2.33	0.57
1:1A:2531:C:O2'	1:1A:2532:C:H5'	2.05	0.57
1:1A:2630:C:O2'	1:1A:2631:C:H5'	2.04	0.57
1:1A:2710:C:O2'	1:1A:2711:C:H5'	2.04	0.57
2:1B:94:C:O2'	2:1B:95:C:H5'	2.04	0.57
3:1D:52:ARG:HB3	3:1D:53:PHE:CD2	2.38	0.57
6:1G:159:VAL:O	6:1G:159:VAL:HG13	2.05	0.57
10:1O:49:ARG:HH12	32:1a:1406:G:P	2.27	0.57
10:1O:80:ASP:OD2	15:1T:71:GLY:HA3	2.04	0.57
11:1P:50:ARG:HG2	30:18:61:LEU:HD11	1.85	0.57
12:1Q:43:THR:HB	12:1Q:45:GLN:OE1	2.05	0.57
12:1Q:52:VAL:HA	12:1Q:55:VAL:HG22	1.86	0.57
14:1S:36:TYR:N	14:1S:36:TYR:HD1	2.02	0.57
14:1S:74:ALA:CA	14:1S:110:LEU:HD13	2.34	0.57
18:1W:12:ILE:HD12	18:1W:42:ARG:CD	2.34	0.57
32:1a:78:G:C2	32:1a:86:U:O2	2.58	0.57
32:1a:372:G:O2'	47:1p:5:ARG:NH1	2.37	0.57
32:1a:372:G:C4'	47:1p:5:ARG:HD2	2.34	0.57
32:1a:408:A:OP2	35:1d:35:ARG:NH2	2.31	0.57
32:1a:1134:A:H5"	41:1j:41:PRO:HA	1.86	0.57
32:1a:1332:A:H2'	32:1a:1333:U:C6	2.39	0.57
32:1a:1359:U:H2'	32:1a:1360:A:C8	2.40	0.57
32:1a:1382:C:H4'	32:1a:1383:5MC:C5'	2.33	0.57
34:1c:141:VAL:HG11	34:1c:149:ALA:HB2	1.85	0.57
37:1f:61:LEU:HD23	37:1f:63:TYR:OH	2.05	0.57
39:1h:88:LYS:HB3	39:1h:89:PRO:HD2	1.87	0.57
39:1h:103:VAL:HG21	39:1h:109:ILE:O	2.05	0.57
43:1l:90:VAL:O	43:1l:92:0TD:N	2.37	0.57
45:1n:25:VAL:HG22	45:1n:38:GLY:O	2.05	0.57
46:1o:39:LEU:HB2	46:1o:56:LEU:HD13	1.84	0.57
1:2A:183:A:H5"	1:2A:184:A:O5'	2.04	0.57
1:2A:504:A:H4'	1:2A:505:A:OP1	2.05	0.57
1:2A:1102:A:O2'	1:2A:1103:G:P	2.63	0.57
1:2A:1107:G:N7	1:2A:1115:A:H1'	2.20	0.57
1:2A:1697:G:H5'	13:2R:39:PRO:CG	2.34	0.57
1:2A:2119:U:H3	1:2A:2212:G:H1	0.70	0.57
1:2A:2185:C:H5"	1:2A:2186:G:OP2	2.04	0.57
1:2A:2631:C:H4'	4:2E:154:LYS:O	2.04	0.57
1:2A:2641:G:H2'	1:2A:2642:G:H8	1.69	0.57
1:2A:2834:C:H2'	1:2A:2835:A:O4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:72:TYR:O	9:2N:85:ILE:N	2.37	0.57
12:2Q:97:VAL:HG11	12:2Q:103:MET:CE	2.34	0.57
14:2S:34:HIS:O	14:2S:97:ARG:NH2	2.37	0.57
14:2S:35:ILE:HD13	14:2S:66:ALA:HB1	1.85	0.57
15:2T:101:PHE:CD2	15:2T:105:LEU:HD11	2.39	0.57
18:2W:5:ALA:HB2	18:2W:54:ALA:HA	1.87	0.57
19:2X:5:TYR:HE2	24:22:30:ARG:HB2	1.69	0.57
28:26:12:GLU:HA	28:26:18:ARG:O	2.04	0.57
34:2c:5:ILE:HG13	34:2c:6:HIS:N	2.16	0.57
38:2g:21:VAL:O	38:2g:24:THR:HB	2.04	0.57
39:2h:121:ASP:HB2	39:2h:125:ARG:CZ	2.33	0.57
40:2i:102:LEU:HD12	40:2i:103:THR:N	2.19	0.57
45:2n:25:VAL:HG22	45:2n:39:LEU:HD23	1.86	0.57
48:2q:6:LEU:HG	48:2q:23:VAL:HG11	1.87	0.57
49:2r:53:ARG:O	49:2r:57:GLY:N	2.26	0.57
1:1A:439:C:H42	1:1A:2421:G:H1	1.53	0.57
1:1A:770:U:H2'	1:1A:771:G:O4'	2.03	0.57
1:1A:1322:G:H4'	13:1R:20:LEU:HD11	1.87	0.57
1:1A:2019:G:H4'	1:1A:2736:C:O2'	2.05	0.57
1:1A:2050:G:H2'	1:1A:2052:A:OP1	2.05	0.57
1:1A:2595:U:H2'	1:1A:2596:U:H2'	1.86	0.57
6:1G:60:LEU:HA	6:1G:63:ILE:HB	1.86	0.57
14:1S:35:ILE:C	14:1S:36:TYR:HD1	2.13	0.57
17:1V:23:GLU:O	59:1V:311:HOH:O	2.17	0.57
18:1W:18:ARG:HG2	18:1W:76:VAL:HB	1.87	0.57
19:1X:9:LEU:HB2	19:1X:29:TRP:O	2.04	0.57
19:1X:57:LEU:HD11	19:1X:78:LYS:HE2	1.87	0.57
32:1a:29:G:O2'	32:1a:292:U:OP1	2.22	0.57
32:1a:262:G:H2'	32:1a:262:G:N3	2.19	0.57
32:1a:273:C:OP1	48:1q:68:ARG:NH2	2.36	0.57
32:1a:449:C:OP1	47:1p:75:ARG:NH2	2.37	0.57
32:1a:714:G:O2'	32:1a:750:A:O4'	2.22	0.57
32:1a:910:C:H5"	38:1g:4:ARG:NH1	2.20	0.57
32:1a:1257:A:C2'	32:1a:1258:G:H5'	2.35	0.57
32:1a:1261:A:H5"	32:1a:1262:A:OP1	2.05	0.57
32:1a:1279:C:H1'	38:1g:114:ARG:NH1	2.20	0.57
34:1c:20:SER:OG	34:1c:40:ARG:NH2	2.32	0.57
40:1i:99:LEU:HB3	40:1i:101:PHE:CD2	2.39	0.57
52:1u:12:LYS:HE2	52:1u:19:GLY:N	2.20	0.57
1:2A:15:G:O2'	1:2A:16:G:H5'	2.05	0.57
1:2A:60:C:H42	1:2A:90:G:H1	1.50	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:102:C:O2'	1:2A:103:C:H5'	2.05	0.57
1:2A:310:C:H2'	1:2A:311:C:C6	2.40	0.57
1:2A:1488:G:O2'	1:2A:1489:G:H5'	2.05	0.57
1:2A:1731:C:O2'	1:2A:1732:C:H5'	2.04	0.57
3:2D:108:PRO:HD2	3:2D:111:LEU:HD11	1.86	0.57
5:2F:199:TRP:O	5:2F:202:PHE:HB3	2.04	0.57
6:2G:150:ASP:OD1	6:2G:151:ALA:N	2.33	0.57
9:2N:52:VAL:O	9:2N:120:LEU:HD12	2.04	0.57
11:2P:63:PRO:HG2	30:28:25:MET:HB2	1.87	0.57
13:2R:79:LEU:HD22	13:2R:80:PHE:CD1	2.40	0.57
18:2W:14:PRO:O	18:2W:17:VAL:HG22	2.04	0.57
20:2Y:73:ARG:NH2	20:2Y:83:THR:HA	2.19	0.57
24:22:27:GLU:O	24:22:30:ARG:N	2.37	0.57
32:2a:20:C:O2'	32:2a:21:U:H5'	2.05	0.57
32:2a:355:U:H2'	32:2a:356:A:H8	1.69	0.57
32:2a:425:U:H4'	32:2a:426:A:O5'	2.04	0.57
32:2a:1300:A:H4'	50:2s:10:PHE:CZ	2.39	0.57
32:2a:1372:C:H2'	32:2a:1373:U:H6	1.70	0.57
32:2a:1387:5MC:HN41	32:2a:1475:G:H1	1.53	0.57
35:2d:67:ILE:HG22	35:2d:68:TYR:HD1	1.70	0.57
36:2e:53:LEU:O	36:2e:57:LYS:HG3	2.04	0.57
44:2m:22:ILE:HB	44:2m:25:ILE:HG21	1.86	0.57
46:2o:54:ARG:HG2	46:2o:58:MET:HE2	1.86	0.57
50:2s:50:ALA:CA	50:2s:59:PRO:HA	2.32	0.57
1:1A:655:A:H1'	11:1P:66:GLY:HA2	1.86	0.57
1:1A:731:A:H1'	59:1A:4302:HOH:O	2.04	0.57
1:1A:744:C:OP1	1:1A:1680:A:N6	2.37	0.57
1:1A:1052:C:H5"	9:1N:35:ARG:NH1	2.20	0.57
1:1A:1576:C:H42	1:1A:1585:G:H1	1.53	0.57
1:1A:1731:C:O2'	1:1A:1732:C:H5'	2.04	0.57
1:1A:1805:U:OP1	1:1A:2000:C:O2'	2.12	0.57
1:1A:2159:C:N4	1:1A:2174:G:H1	2.02	0.57
1:1A:2691:C:H4'	4:1E:188:VAL:O	2.05	0.57
3:1D:181:GLU:HA	3:1D:272:ALA:O	2.04	0.57
4:1E:28:ALA:HB3	4:1E:93:VAL:CG1	2.34	0.57
11:1P:93:GLY:H	11:1P:123:LEU:HD22	1.69	0.57
13:1R:61:HIS:NE2	13:1R:65:LEU:HD11	2.20	0.57
15:1T:55:ASN:H	15:1T:59:THR:CG2	2.16	0.57
15:1T:118:ARG:HA	15:1T:121:ILE:HD12	1.87	0.57
16:1U:50:ARG:O	16:1U:54:LYS:NZ	2.37	0.57
19:1X:2:LYS:NZ	19:1X:38:GLU:OE2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:18:29:LYS:HE2	30:18:45:GLY:CA	2.34	0.57
32:1a:42:G:H2'	32:1a:43:G:H8	1.70	0.57
32:1a:131:C:H42	32:1a:223:G:H1	1.53	0.57
32:1a:930:U:H2'	32:1a:931:G:C8	2.38	0.57
32:1a:931:G:H5'	32:1a:943:A:H61	1.69	0.57
32:1a:1242:C:O5'	32:1a:1266:C:H4'	2.05	0.57
32:1a:1314:A:H2'	32:1a:1315:A:C8	2.39	0.57
33:1b:60:ASP:CG	33:1b:64:ARG:HE	2.13	0.57
33:1b:74:LYS:HE3	33:1b:166:ASP:HB2	1.85	0.57
39:1h:105:ARG:HG3	39:1h:105:ARG:O	2.03	0.57
41:1j:51:ARG:NE	41:1j:60:ARG:O	2.37	0.57
1:2A:78:G:O2'	1:2A:79:G:H5'	2.04	0.57
1:2A:371:G:O2'	1:2A:372:G:H5'	2.05	0.57
1:2A:440:C:O2'	1:2A:441:A:H5'	2.04	0.57
1:2A:782:C:O2'	1:2A:783:C:H5'	2.03	0.57
1:2A:798:A:OP2	29:27:3:ARG:NH2	2.33	0.57
1:2A:1318:U:O2'	1:2A:1319:A:H5"	2.04	0.57
1:2A:1497:C:O2'	1:2A:1498:C:H5'	2.04	0.57
1:2A:1722:A:C2	1:2A:2014:U:H5'	2.39	0.57
1:2A:1754:C:H2'	1:2A:1755:U:H6	1.70	0.57
1:2A:2020:C:O2'	1:2A:2021:G:H5'	2.05	0.57
1:2A:2184:C:H3'	1:2A:2185:C:C6	2.39	0.57
1:2A:2542:A:H4'	7:2H:157:TYR:CD2	2.39	0.57
1:2A:2587:G:H3'	1:2A:2587:G:N3	2.18	0.57
1:2A:2760:A:H2'	1:2A:2761:A:C8	2.39	0.57
2:2B:39:A:O2'	2:2B:40:U:H5'	2.04	0.57
2:2B:42:C:N3	6:2G:91:ARG:NH1	2.52	0.57
12:2Q:63:LYS:HD3	21:2Z:175:VAL:HG21	1.86	0.57
15:2T:48:ILE:O	15:2T:63:VAL:HA	2.05	0.57
17:2V:41:GLY:HA2	17:2V:44:LYS:O	2.05	0.57
25:23:12:PRO:HB2	25:23:20:LYS:CG	2.33	0.57
31:29:16:VAL:O	31:29:17:ILE:HD13	2.05	0.57
32:2a:671:A:H4'	32:2a:672:G:O5'	2.04	0.57
32:2a:807:G:C2'	32:2a:808:C:H5'	2.35	0.57
32:2a:1007:C:C2	32:2a:1016:G:N1	2.73	0.57
32:2a:1008:C:N3	32:2a:1015:G:C6	2.73	0.57
32:2a:1100:G:H5'	32:2a:1101:C:OP2	2.05	0.57
32:2a:1288:A:O2'	44:2m:109:THR:OG1	2.23	0.57
33:2b:104:ASN:O	33:2b:108:ILE:HG12	2.04	0.57
37:2f:45:LEU:HD12	37:2f:59:TYR:HD1	1.70	0.57
38:2g:47:CYS:O	38:2g:50:ILE:HG12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2l:83:VAL:HG22	43:2l:84:LEU:N	2.20	0.57
44:2m:91:ARG:NH2	44:2m:103:THR:HG21	2.20	0.57
1:1A:222:C:O2'	1:1A:223:U:H5'	2.05	0.57
1:1A:452:C:O2'	1:1A:453:U:H5'	2.04	0.57
1:1A:1062:G:O6	59:1A:4306:HOH:O	2.15	0.57
1:1A:2020:C:H4'	1:1A:2735:C:O2	2.05	0.57
1:1A:2113:U:H4'	1:1A:2114:G:O5'	2.04	0.57
1:1A:2324:C:C1'	6:1G:40:ASN:HD22	2.17	0.57
3:1D:94:LEU:HD11	3:1D:96:HIS:NE2	2.20	0.57
17:1V:29:PRO:HA	17:1V:61:VAL:HG13	1.85	0.57
32:1a:585:C:O2'	32:1a:586:A:H5'	2.04	0.57
32:1a:865:G:H1	32:1a:888:C:H42	1.53	0.57
32:1a:954:G:H5'	32:1a:1340:U:O2'	2.04	0.57
32:1a:962:C:O2'	32:1a:963:C:H5'	2.05	0.57
32:1a:1010:G:H4'	32:1a:1012:G:C6	2.39	0.57
32:1a:1030:G:H5"	45:1n:4:LYS:HD2	1.86	0.57
32:1a:1054:C:H2'	32:1a:1055:G:H8	1.67	0.57
32:1a:1470:A:H5"	43:1l:47:LYS:HZ2	1.70	0.57
33:1b:46:LYS:HA	33:1b:49:GLU:CG	2.35	0.57
33:1b:155:LEU:HD21	33:1b:159:PRO:HD3	1.86	0.57
33:1b:157:ARG:HG2	33:1b:158:LEU:H	1.70	0.57
35:1d:158:ILE:HG13	35:1d:159:ARG:HG3	1.87	0.57
39:1h:97:VAL:HA	39:1h:100:ILE:HD11	1.86	0.57
44:1m:91:ARG:NH2	44:1m:96:LEU:HB3	2.19	0.57
49:1r:37:VAL:HG13	49:1r:38:GLU:H	1.70	0.57
50:1s:51:VAL:O	50:1s:57:HIS:HA	2.05	0.57
1:2A:231:U:O2'	1:2A:232:A:H5'	2.05	0.57
1:2A:948:C:O2'	1:2A:949:C:H5'	2.04	0.57
1:2A:1101:G:H5"	1:2A:1102:A:C5'	2.22	0.57
1:2A:1191:C:O2'	1:2A:1192:C:H5'	2.04	0.57
1:2A:1693:G:OP2	1:2A:1693:G:H3'	2.05	0.57
1:2A:2058:G:O2'	1:2A:2059:G:H5'	2.05	0.57
1:2A:2192:A:H1'	1:2A:2193:U:C6	2.40	0.57
1:2A:2339:A:H2'	1:2A:2340:G:H8	1.70	0.57
1:2A:2344:A:N3	1:2A:2346:A:N6	2.53	0.57
2:2B:24:G:H4'	2:2B:25:A:C8	2.40	0.57
2:2B:74:U:H1'	21:2Z:34:ASN:HD21	1.70	0.57
2:2B:105:A:C4'	21:2Z:29:TYR:HE2	2.18	0.57
5:2F:116:ASP:O	5:2F:120:GLU:HG3	2.05	0.57
5:2F:178:PRO:HB3	5:2F:198:ALA:CB	2.35	0.57
6:2G:63:ILE:HG23	6:2G:141:PHE:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2I:7:GLU:HB3	59:2I:3101:HOH:O	2.05	0.57
20:2Y:44:ILE:HD11	20:2Y:64:GLU:HG3	1.86	0.57
26:24:12:ALA:HB3	26:24:24:THR:HG23	1.86	0.57
32:2a:70:G:H2'	32:2a:71:G:H8	1.67	0.57
32:2a:97:C:C2'	32:2a:98:G:H5'	2.35	0.57
32:2a:104:C:O2'	47:2p:25:ARG:O	2.23	0.57
32:2a:1201:U:OP1	45:2n:19:ARG:NH1	2.37	0.57
32:2a:1206:G:N2	32:2a:1305:G:OP1	2.38	0.57
32:2a:1334:C:H42	32:2a:1353:G:H1	1.52	0.57
32:2a:1479:C:H5"	32:2a:1480:A:OP2	2.05	0.57
35:2d:194:LEU:HB3	35:2d:196:LEU:CD1	2.35	0.57
38:2g:50:ILE:HD11	38:2g:58:PRO:HA	1.85	0.57
38:2g:108:ALA:O	38:2g:111:ARG:N	2.25	0.57
42:2k:85:ARG:HB2	42:2k:113:PRO:HD2	1.86	0.57
46:2o:7:GLU:O	46:2o:10:LYS:HB3	2.05	0.57
47:2p:27:LYS:O	47:2p:29:ASP:N	2.37	0.57
1:1A:389:G:H2'	1:1A:390:G:H8	1.68	0.57
1:1A:884:C:O2'	1:1A:885:U:H5'	2.05	0.57
1:1A:1140:A:H3'	1:1A:1141:A:H8	1.68	0.57
1:1A:1323:A:C5'	13:1R:36:THR:HG22	2.35	0.57
2:1B:48:A:H4'	14:1S:95:HIS:CD2	2.40	0.57
3:1D:105:ILE:HB	59:1D:415:HOH:O	2.05	0.57
21:1Z:99:TYR:CE1	21:1Z:125:LEU:HD13	2.40	0.57
32:1a:334:A:H2'	32:1a:335:C:H5'	1.86	0.57
32:1a:335:C:O2'	32:1a:336:U:H5'	2.04	0.57
32:1a:546:C:H1'	43:1l:15:ARG:HB3	1.87	0.57
32:1a:766:A:H2'	32:1a:767:C:H5'	1.86	0.57
32:1a:835:C:H2'	32:1a:836:G:C8	2.40	0.57
32:1a:928:U:H2'	32:1a:929:G:H8	1.70	0.57
32:1a:1115:C:H3'	32:1a:1115:C:H6	1.70	0.57
34:1c:200:ALA:C	34:1c:201:TYR:HD1	2.12	0.57
40:1i:78:LYS:O	40:1i:81:ILE:HG12	2.05	0.57
40:1i:89:ASN:HB3	40:1i:92:TYR:CD2	2.40	0.57
48:1q:51:TYR:CE2	48:1q:73:VAL:HG11	2.40	0.57
1:2A:319:C:H2'	1:2A:320:C:H6	1.70	0.57
1:2A:1006:G:OP1	59:2A:3610:HOH:O	2.17	0.57
1:2A:1136:G:H2'	1:2A:1136:G:N3	2.19	0.57
1:2A:1633:C:O2'	1:2A:1634:C:H5'	2.05	0.57
1:2A:1922:A:C2'	1:2A:1923:C:H5'	2.35	0.57
1:2A:1935:C:H2'	1:2A:1936:5MU:O2	2.04	0.57
1:2A:2234:G:C2'	1:2A:2235:G:H5'	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:96:PHE:HE2	4:2E:198:VAL:HG12	1.70	0.57
4:2E:98:PRO:HA	4:2E:172:VAL:HG12	1.87	0.57
7:2H:87:LEU:HD21	7:2H:164:TYR:HD1	1.68	0.57
22:20:15:ASP:OD1	22:20:16:SER:N	2.37	0.57
32:2a:163:G:O2'	32:2a:164:C:H5'	2.05	0.57
32:2a:489:G:H2'	32:2a:490:G:C8	2.40	0.57
32:2a:840:C:O2'	32:2a:841:U:H5'	2.05	0.57
32:2a:1057:G:H2'	32:2a:1058:C:H6	1.70	0.57
32:2a:1405:G:O2'	32:2a:1406:G:H5'	2.05	0.57
33:2b:178:ARG:NH2	39:2h:74:PRO:HB3	2.19	0.57
33:2b:187:LEU:CB	33:2b:201:ILE:HB	2.35	0.57
36:2e:6:PHE:CD1	36:2e:36:ASP:HB3	2.40	0.57
38:2g:43:PHE:O	38:2g:46:ALA:N	2.35	0.57
38:2g:89:MET:HE1	38:2g:155:ARG:CA	2.29	0.57
44:2m:8:GLU:O	44:2m:10:PRO:HD3	2.05	0.57
47:2p:56:ALA:O	47:2p:60:LEU:HD13	2.05	0.57
1:1A:63:C:O2'	1:1A:64:C:H5'	2.05	0.56
1:1A:587:C:H4'	59:1A:4608:HOH:O	2.03	0.56
1:1A:826:G:O6	59:1A:4327:HOH:O	2.16	0.56
1:1A:1016:G:OP2	1:1A:1017:A:O2'	2.21	0.56
1:1A:1260:G:OP1	16:1U:8:VAL:HG23	2.05	0.56
1:1A:1311:G:C6	18:1W:16:LYS:HE3	2.40	0.56
1:1A:2411:G:H1	1:1A:2427:C:H42	1.50	0.56
3:1D:142:VAL:HG21	3:1D:191:ALA:HB1	1.85	0.56
6:1G:150:ASP:OD1	6:1G:151:ALA:N	2.38	0.56
18:1W:45:TYR:HD2	18:1W:46:PHE:CD1	2.22	0.56
24:12:52:ASP:O	24:12:56:GLN:N	2.33	0.56
28:16:21:TYR:CE2	28:16:38:LYS:HE2	2.40	0.56
32:1a:570:C:H2'	32:1a:571:G:O4'	2.04	0.56
32:1a:837:A:OP1	59:1a:2056:HOH:O	2.17	0.56
32:1a:1351:G:OP1	41:1j:62:HIS:NE2	2.28	0.56
33:1b:51:LEU:CD2	33:1b:201:ILE:HD12	2.31	0.56
33:1b:101:MET:HA	33:1b:108:ILE:HG13	1.86	0.56
35:1d:133:VAL:CG1	35:1d:135:LEU:HB2	2.34	0.56
37:1f:4:TYR:CD1	37:1f:92:LYS:HA	2.40	0.56
40:1i:4:TYR:CE1	40:1i:88:TYR:HB2	2.39	0.56
1:2A:164:G:C2'	1:2A:165:G:H5'	2.34	0.56
1:2A:439:C:O2'	1:2A:440:C:H5'	2.05	0.56
1:2A:473:U:H1'	5:2F:84:VAL:CG1	2.35	0.56
1:2A:1565:U:H2'	1:2A:1566:G:H5'	1.86	0.56
1:2A:1771:C:C2'	1:2A:1772:C:H5'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2209:C:H2'	1:2A:2210:U:C4'	2.35	0.56
1:2A:2651:G:O2'	1:2A:2652:G:H5'	2.03	0.56
5:2F:29:ASN:H	5:2F:112:MET:CE	2.18	0.56
21:2Z:5:LEU:HB3	21:2Z:59:LEU:HD23	1.87	0.56
32:2a:366:C:H42	32:2a:387:G:H1	1.53	0.56
32:2a:399:C:H4'	35:2d:122:ARG:NH1	2.20	0.56
32:2a:548:C:H5'	48:2q:32:TYR:CE1	2.39	0.56
32:2a:708:G:O2'	32:2a:709:G:H5'	2.05	0.56
32:2a:719:C:O2'	32:2a:720:C:H5'	2.04	0.56
32:2a:1100:G:H4'	40:2i:104:ARG:HH12	1.69	0.56
32:2a:1398:G:O6	32:2a:1463:U:N3	2.20	0.56
32:2a:1477:A:O2'	32:2a:1478:A:H5'	2.05	0.56
33:2b:162:ILE:HD13	33:2b:177:ALA:CB	2.34	0.56
35:2d:149:ALA:HB3	35:2d:152:SER:HB2	1.87	0.56
36:2e:16:THR:O	36:2e:27:ARG:N	2.38	0.56
42:2k:48:ILE:HG22	42:2k:48:ILE:O	2.05	0.56
43:2l:45:PRO:HG3	43:2l:53:ARG:HE	1.70	0.56
43:2l:45:PRO:HB2	43:2l:92:0TD:SB	2.45	0.56
44:2m:97:PRO:HG3	44:2m:110:ARG:HB3	1.86	0.56
48:2q:22:LEU:HD12	48:2q:40:LYS:O	2.05	0.56
49:2r:31:LEU:O	49:2r:69:THR:HG21	2.05	0.56
49:2r:65:ILE:O	49:2r:69:THR:HG23	2.04	0.56
1:1A:80:G:O2'	1:1A:81:G:H5'	2.05	0.56
1:1A:721:A:O2'	5:1F:67:GLN:HG2	2.05	0.56
1:1A:992:G:C2'	1:1A:993:C:H5'	2.35	0.56
1:1A:2115:G:H1	1:1A:2216:C:H42	1.51	0.56
1:1A:2637:C:O2'	1:1A:2638:G:H5'	2.05	0.56
1:1A:2858:U:O4	15:1T:23:ARG:NH1	2.35	0.56
3:1D:96:HIS:CD2	3:1D:102:LYS:HG2	2.40	0.56
9:1N:21:LYS:NZ	59:1N:306:HOH:O	2.18	0.56
15:1T:14:TYR:HD1	15:1T:14:TYR:N	2.03	0.56
21:1Z:44:PHE:CE2	21:1Z:86:VAL:HG11	2.40	0.56
21:1Z:77:ASP:N	21:1Z:82:ARG:O	2.35	0.56
21:1Z:116:VAL:O	21:1Z:174:VAL:HA	2.05	0.56
29:17:35:ARG:O	29:17:38:GLY:N	2.38	0.56
32:1a:371:U:H2'	32:1a:372:G:H8	1.70	0.56
32:1a:604:C:C1'	35:1d:135:LEU:HD23	2.36	0.56
32:1a:1141:C:O2'	33:1b:133:LYS:HE3	2.05	0.56
32:1a:1230:A:O2'	32:1a:1231:C:H5'	2.05	0.56
32:1a:1300:A:H4'	50:1s:10:PHE:CE2	2.39	0.56
33:1b:211:ILE:HG22	33:1b:215:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1d:165:MET:HA	35:1d:168:ARG:CG	2.35	0.56
36:1e:51:VAL:HB	36:1e:52:PRO:HD3	1.86	0.56
38:1g:27:ILE:O	38:1g:31:MET:N	2.34	0.56
42:1k:61:ALA:HA	42:1k:64:ALA:HB3	1.87	0.56
50:1s:39:THR:OG1	50:1s:70:LYS:HE2	2.04	0.56
1:2A:93:G:HO2'	24:22:48:HIS:HD1	0.61	0.56
1:2A:757:G:C2'	1:2A:758:G:H5'	2.36	0.56
1:2A:904:U:H3'	1:2A:905:G:C8	2.40	0.56
1:2A:953:C:O2'	12:2Q:71:ASP:OD2	2.13	0.56
1:2A:1456:C:H42	1:2A:1636:G:H1	1.53	0.56
1:2A:1784:C:P	15:2T:96:ARG:HH12	2.27	0.56
1:2A:2195:C:H2'	1:2A:2196:C:H6	1.70	0.56
1:2A:2214:G:H2'	1:2A:2215:G:O4'	2.05	0.56
1:2A:2411:G:H2'	1:2A:2412:U:O4'	2.05	0.56
1:2A:2631:C:O4'	4:2E:156:MET:HB2	2.05	0.56
1:2A:2879:C:H5"	13:2R:65:LEU:HD21	1.87	0.56
2:2B:79:C:C2'	2:2B:80:U:H5'	2.35	0.56
5:2F:63:LYS:HG2	5:2F:65:TRP:O	2.05	0.56
6:2G:120:LEU:HG	6:2G:179:PRO:O	2.05	0.56
6:2G:145:THR:HG22	6:2G:148:MET:CE	2.32	0.56
7:2H:88:LEU:HD13	7:2H:165:ALA:HA	1.87	0.56
8:2I:93:THR:O	8:2I:96:ASP:HB2	2.04	0.56
9:2N:78:TYR:HB3	9:2N:79:PRO:HD2	1.87	0.56
10:2O:7:TYR:C	10:2O:8:LEU:HD12	2.29	0.56
15:2T:22:PHE:CE2	15:2T:49:VAL:HG11	2.40	0.56
17:2V:10:LYS:HB2	17:2V:12:TYR:HE1	1.69	0.56
18:2W:33:ARG:NE	18:2W:52:GLU:OE2	2.37	0.56
23:21:23:LYS:HB3	23:21:29:GLY:HA3	1.88	0.56
32:2a:35:C:O2'	32:2a:36:G:H5'	2.04	0.56
32:2a:658:G:H2'	32:2a:659:A:H8	1.70	0.56
32:2a:812:A:OP1	32:2a:812:A:H4'	2.05	0.56
32:2a:883:U:H2'	32:2a:884:G:H5'	1.85	0.56
32:2a:1131:U:C2'	32:2a:1132:C:H5'	2.35	0.56
32:2a:1252:C:O2'	32:2a:1253:G:H5'	2.04	0.56
32:2a:1378:C:C4'	32:2a:1384:G:H21	2.17	0.56
34:2c:179:ARG:O	34:2c:206:GLU:HA	2.04	0.56
40:2i:14:VAL:O	40:2i:65:VAL:HA	2.05	0.56
48:2q:9:VAL:HG21	48:2q:84:LEU:HD13	1.86	0.56
1:1A:272:G:O2'	1:1A:273:U:H5"	2.04	0.56
1:1A:580:G:O2'	1:1A:581:G:H5'	2.05	0.56
1:1A:599:G:O2'	1:1A:1299:A:OP1	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:710:C:H4'	1:1A:984:G:O3'	2.05	0.56
1:1A:769:G:O2'	1:1A:770:U:H5'	2.05	0.56
1:1A:983:G:H2'	1:1A:984:G:H5'	1.87	0.56
1:1A:1026:A:H1'	1:1A:2058:G:C1'	2.36	0.56
1:1A:1067:G:O2'	59:1A:4244:HOH:O	2.10	0.56
1:1A:1246:C:H42	1:1A:1288:G:H1	1.53	0.56
1:1A:1284:G:H2'	1:1A:1285:U:O4'	2.05	0.56
1:1A:1366:A:O2'	1:1A:1367:A:H5'	2.05	0.56
1:1A:1524:G:O2'	1:1A:1525:G:H5'	2.06	0.56
1:1A:1548:U:O2'	1:1A:1549:C:H5'	2.05	0.56
1:1A:1718:C:H5"	1:1A:2565:U:OP1	2.06	0.56
1:1A:1772:C:O2'	1:1A:1773:C:H5'	2.04	0.56
1:1A:2052:A:C6	1:1A:2509:C:H1'	2.40	0.56
1:1A:2076:C:H4'	1:1A:2077:G:H5"	1.85	0.56
1:1A:2115:G:H5'	8:1I:25:TYR:CD1	2.39	0.56
1:1A:2144:G:H3'	1:1A:2145:G:H8	1.69	0.56
1:1A:2427:C:H5"	11:1P:65:ARG:HE	1.70	0.56
1:1A:2628:C:H2'	1:1A:2629:G:H5'	1.86	0.56
1:1A:2691:C:OP2	4:1E:111:ARG:NH2	2.37	0.56
1:1A:2726:G:O2'	1:1A:2727:C:H5'	2.05	0.56
59:1A:4042:HOH:O	13:1R:24:GLN:NE2	2.37	0.56
3:1D:142:VAL:HG22	3:1D:143:HIS:N	2.20	0.56
4:1E:30:PRO:HD3	4:1E:180:ASN:ND2	2.20	0.56
4:1E:170:LEU:HB3	4:1E:184:VAL:HG22	1.86	0.56
6:1G:171:ALA:HA	6:1G:175:LEU:HD13	1.87	0.56
8:1I:72:LEU:HD22	8:1I:140:LEU:HD23	1.88	0.56
10:1O:91:LEU:HD22	10:1O:111:PHE:CE1	2.39	0.56
12:1Q:7:MET:HE2	21:1Z:194:PRO:CB	2.34	0.56
16:1U:74:LEU:HD23	16:1U:114:LYS:HE2	1.88	0.56
18:1W:23:LEU:HD11	27:15:27:PRO:CB	2.35	0.56
26:14:43:TYR:O	26:14:45:GLY:N	2.38	0.56
26:14:67:TYR:OH	50:1s:43:GLU:HG2	2.06	0.56
31:19:2:LYS:NZ	31:19:31:LYS:O	2.37	0.56
32:1a:77:G:N2	32:1a:87:C:N3	2.52	0.56
32:1a:189:U:O2'	32:1a:190:U:OP2	2.17	0.56
32:1a:409:G:N2	32:1a:424:G:O2'	2.37	0.56
32:1a:422:G:H4'	35:1d:41:GLY:O	2.05	0.56
32:1a:583:C:O2'	32:1a:584:C:H5'	2.04	0.56
32:1a:859:G:P	43:1l:12:ARG:HH22	2.27	0.56
32:1a:889:U:P	43:1l:97:ARG:HH21	2.27	0.56
32:1a:913:A:O2'	32:1a:914:C:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:971:G:HO2'	32:1a:973:C:H41	1.47	0.56
32:1a:1202:G:H2'	32:1a:1203:G:O4'	2.05	0.56
32:1a:1242:C:H5'	32:1a:1266:C:H4'	1.87	0.56
32:1a:1375:G:O2'	32:1a:1376:U:H5'	2.05	0.56
32:1a:1437:C:H2'	32:1a:1438:A:O4'	2.04	0.56
33:1b:102:LEU:HB3	33:1b:180:LEU:HD12	1.87	0.56
33:1b:111:ARG:O	33:1b:111:ARG:HG3	2.05	0.56
35:1d:93:PHE:CZ	35:1d:97:LEU:HD11	2.40	0.56
35:1d:187:ARG:HH12	35:1d:189:PRO:HA	1.70	0.56
40:1i:8:GLY:O	40:1i:76:ALA:HB1	2.05	0.56
40:1i:20:ARG:O	40:1i:60:ASP:N	2.34	0.56
42:1k:124:LYS:C	42:1k:125:PHE:HD1	2.13	0.56
44:1m:9:ILE:HD11	44:1m:45:VAL:HG21	1.85	0.56
44:1m:65:LYS:HZ3	44:1m:73:GLU:HB2	1.70	0.56
47:1p:8:ARG:HH21	47:1p:15:PRO:HG3	1.70	0.56
1:2A:470:C:O3'	16:2U:3:ARG:HD3	2.04	0.56
1:2A:926:G:C2'	1:2A:927:G:H5'	2.34	0.56
1:2A:931:C:H1'	1:2A:937:G:H22	1.70	0.56
1:2A:1046:A:H2'	1:2A:1047:G:H5'	1.86	0.56
1:2A:1409:G:P	23:21:3:LYS:HG3	2.45	0.56
1:2A:1427:G:O3'	1:2A:1619:G:N2	2.38	0.56
1:2A:1518:A:H2'	1:2A:1519:G:O4'	2.05	0.56
1:2A:1884:A:C2'	1:2A:1885:G:H5'	2.35	0.56
1:2A:1988:C:C2'	1:2A:1989:G:H5'	2.34	0.56
1:2A:2020:C:C2'	1:2A:2021:G:H5'	2.35	0.56
1:2A:2411:G:H2'	1:2A:2412:U:H6	1.70	0.56
1:2A:2558:U:O2'	1:2A:2559:G:H5'	2.06	0.56
1:2A:2625:A:N7	59:2A:3957:HOH:O	2.33	0.56
1:2A:2768:U:H3	1:2A:2770:A:H62	1.51	0.56
1:2A:2833:C:C2'	1:2A:2834:C:H5'	2.34	0.56
1:2A:2870:G:O2'	1:2A:2871:G:H5'	2.04	0.56
3:2D:36:PRO:HA	3:2D:61:LEU:HD12	1.87	0.56
4:2E:104:VAL:HG11	4:2E:188:VAL:HG13	1.86	0.56
5:2F:183:VAL:O	5:2F:187:VAL:HG23	2.05	0.56
9:2N:70:LYS:O	9:2N:86:PRO:HA	2.04	0.56
12:2Q:43:THR:OG1	12:2Q:46:GLN:HG3	2.05	0.56
13:2R:36:THR:HG22	13:2R:37:THR:N	2.20	0.56
15:2T:1:MET:HE2	15:2T:3:ARG:HG2	1.87	0.56
16:2U:29:SER:OG	16:2U:30:LYS:NZ	2.37	0.56
18:2W:68:ARG:NH1	18:2W:111:HIS:HA	2.21	0.56
23:21:82:LEU:O	23:21:85:LEU:HD13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:22:3:LEU:HA	24:22:6:VAL:HB	1.85	0.56
25:23:12:PRO:CB	25:23:20:LYS:HG2	2.33	0.56
26:24:59:PHE:HA	26:24:61:ARG:H	1.70	0.56
32:2a:66:U:O2'	32:2a:67:G:P	2.64	0.56
32:2a:89:G:O2'	32:2a:90:U:H5'	2.05	0.56
32:2a:122:G:C2'	32:2a:123:U:H5'	2.35	0.56
32:2a:181:C:H4'	51:2t:82:SER:HB2	1.87	0.56
32:2a:516:A:H5"	34:2c:161:GLU:OE2	2.05	0.56
32:2a:690:A:H4'	42:2k:22:HIS:CG	2.40	0.56
32:2a:721:A:H5"	37:2f:92:LYS:HG3	1.86	0.56
32:2a:744:G:C2'	32:2a:745:G:H5'	2.34	0.56
32:2a:809:G:H21	39:2h:11:THR:HG21	1.69	0.56
32:2a:963:C:O2'	32:2a:964:A:H5'	2.06	0.56
32:2a:1273:G:O2'	32:2a:1274:U:H5'	2.06	0.56
32:2a:1295:U:OP2	50:2s:4:SER:HA	2.05	0.56
32:2a:1329:G:HO2'	32:2a:1356:G:H1	1.50	0.56
32:2a:1351:G:C5'	40:2i:112:LYS:HB3	2.29	0.56
32:2a:1495:G:C6	32:2a:1496:MA6:H103	2.40	0.56
33:2b:115:LEU:O	33:2b:118:LEU:N	2.38	0.56
33:2b:199:TYR:HD1	33:2b:199:TYR:N	2.04	0.56
35:2d:12:CYS:HB2	58:2d:501:SF4:S2	2.44	0.56
38:2g:16:LEU:CD1	40:2i:42:ARG:HA	2.32	0.56
41:2j:6:ILE:O	41:2j:71:LEU:HG	2.05	0.56
41:2j:32:ALA:CB	41:2j:33:GLN:HA	2.28	0.56
41:2j:80:LYS:O	41:2j:84:GLN:HB2	2.05	0.56
42:2k:81:ASP:OD1	42:2k:106:LYS:HB2	2.04	0.56
46:2o:32:LEU:O	46:2o:36:ILE:HG13	2.05	0.56
50:2s:61:TYR:CE2	50:2s:63:THR:HG22	2.40	0.56
1:1A:1146:U:H2'	1:1A:1147:C:C6	2.38	0.56
1:1A:2307:U:H4'	1:1A:2308:C:OP1	2.06	0.56
1:1A:2825:C:H42	1:1A:2839:G:H1	1.53	0.56
5:1F:39:TRP:HA	5:1F:99:TYR:CE1	2.39	0.56
8:1I:123:LEU:O	8:1I:126:TYR:OH	2.23	0.56
12:1Q:17:LEU:CD2	12:1Q:96:VAL:HG13	2.35	0.56
18:1W:1:MET:HG2	18:1W:2:GLU:H	1.69	0.56
18:1W:3:ALA:HB3	18:1W:58:ALA:HB2	1.86	0.56
32:1a:292:U:C2'	32:1a:293:G:H5'	2.35	0.56
32:1a:404:A:P	35:1d:115:ARG:HD2	2.46	0.56
32:1a:449:C:OP2	32:1a:450:C:N4	2.32	0.56
32:1a:518:U:H5"	32:1a:519:A:OP2	2.05	0.56
32:1a:1041:G:H2'	32:1a:1042:C:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1292:G:C2'	32:1a:1293:G:H5'	2.36	0.56
33:1b:84:GLU:OE1	33:1b:216:SER:HA	2.05	0.56
33:1b:119:GLU:O	33:1b:123:ALA:HB2	2.05	0.56
33:1b:162:ILE:O	33:1b:185:ILE:HG12	2.05	0.56
49:1r:74:ARG:NE	49:1r:80:PRO:O	2.38	0.56
1:2A:142:C:O2'	19:2X:2:LYS:NZ	2.25	0.56
1:2A:367:G:O2'	1:2A:368:A:O5'	2.16	0.56
1:2A:1060:G:O2'	1:2A:1061:G:H5'	2.05	0.56
1:2A:1086:C:H42	1:2A:1159:G:N2	2.02	0.56
1:2A:1392:G:O2'	1:2A:1393:G:H5'	2.05	0.56
1:2A:1604:A:C4'	1:2A:1605:G:H5"	2.36	0.56
1:2A:1768:G:H2'	1:2A:1769:A:C8	2.41	0.56
1:2A:1983:5MC:O2'	1:2A:1985:G:OP2	2.20	0.56
1:2A:2200:C:H3'	1:2A:2201:U:H5	1.68	0.56
5:2F:192:LEU:HD23	5:2F:193:VAL:N	2.20	0.56
12:2Q:17:LEU:CD2	12:2Q:96:VAL:HG13	2.35	0.56
12:2Q:54:MET:CE	12:2Q:118:LEU:HD23	2.34	0.56
15:2T:53:ARG:HB2	15:2T:60:THR:OG1	2.06	0.56
28:26:12:GLU:HG3	28:26:18:ARG:O	2.05	0.56
31:29:23:VAL:HB	31:29:36:GLN:OE1	2.04	0.56
32:2a:12:G:O2'	32:2a:13:U:H5'	2.04	0.56
32:2a:61:A:H1'	32:2a:62:G:OP2	2.05	0.56
32:2a:152:G:O2'	32:2a:153:G:H5'	2.05	0.56
32:2a:262:G:H1'	32:2a:263:C:OP2	2.04	0.56
32:2a:1090:C:O2	32:2a:1173:A:O2'	2.18	0.56
32:2a:1355:U:OP1	40:2i:71:SER:N	2.35	0.56
34:2c:182:ILE:HG12	34:2c:203:PHE:CA	2.30	0.56
36:2e:96:PRO:HA	36:2e:117:ASP:CG	2.30	0.56
37:2f:15:ASP:OD1	37:2f:18:GLN:N	2.39	0.56
39:2h:44:PHE:CZ	39:2h:137:VAL:HG12	2.40	0.56
43:2l:117:ARG:HD2	43:2l:123:LYS:O	2.05	0.56
1:1A:263:G:H1	1:1A:279:C:H42	1.54	0.56
1:1A:1254:A:H5"	1:1A:1256:G:C5'	2.35	0.56
1:1A:2318:G:N1	6:1G:43:LEU:O	2.38	0.56
1:1A:2400:G:O3'	59:1A:4340:HOH:O	2.17	0.56
7:1H:18:GLU:OE2	7:1H:25:LYS:HE2	2.06	0.56
9:1N:12:ARG:NH1	9:1N:50:ASP:OD2	2.38	0.56
10:1O:4:PRO:O	10:1O:5:GLN:HB2	2.05	0.56
15:1T:118:ARG:HG3	32:1a:1426:G:N7	2.21	0.56
21:1Z:158:PRO:O	21:1Z:161:VAL:HG22	2.05	0.56
32:1a:149:C:C2'	32:1a:150:C:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:283:U:O2'	32:1a:284:A:H5'	2.06	0.56
32:1a:355:U:H2'	32:1a:356:A:H8	1.69	0.56
32:1a:521:G:OP1	43:1l:113:ARG:NH2	2.39	0.56
32:1a:576:G:O2'	32:1a:577:G:H5'	2.05	0.56
32:1a:659:A:H1'	42:1k:116:HIS:CD2	2.40	0.56
32:1a:823:U:O3'	32:1a:824:C:H6	1.89	0.56
32:1a:1208:C:OP2	44:1m:103:THR:HG21	2.05	0.56
32:1a:1332:A:N6	32:1a:1355:U:H3	2.03	0.56
35:1d:134:ASP:C	35:1d:135:LEU:HD12	2.30	0.56
37:1f:14:LEU:HD22	37:1f:18:GLN:HB3	1.87	0.56
44:1m:22:ILE:HB	44:1m:25:ILE:HB	1.87	0.56
45:1n:47:LEU:HA	45:1n:50:LYS:HB2	1.87	0.56
48:1q:9:VAL:O	48:1q:21:VAL:HA	2.06	0.56
48:1q:43:LEU:HD11	48:1q:68:ARG:NE	2.18	0.56
1:2A:839:A:H1'	59:2A:3994:HOH:O	2.05	0.56
1:2A:1101:G:C5'	1:2A:1102:A:H5"	2.22	0.56
1:2A:1237:G:O2'	1:2A:1238:A:H5'	2.04	0.56
1:2A:1362:A:O2'	1:2A:1363:C:H5'	2.06	0.56
1:2A:1989:G:O2'	1:2A:1990:A:O4'	2.20	0.56
1:2A:2292:C:O2'	1:2A:2293:G:H5'	2.05	0.56
5:2F:164:ARG:HD2	5:2F:175:THR:CG2	2.36	0.56
10:2O:10:VAL:HG21	10:2O:16:ALA:C	2.30	0.56
15:2T:16:ARG:NH1	15:2T:83:ILE:HB	2.21	0.56
21:2Z:16:SER:HA	21:2Z:19:ARG:HG2	1.86	0.56
29:27:34:ARG:HB2	29:27:42:LEU:HD22	1.87	0.56
32:2a:153:G:H1	32:2a:158:C:H42	1.53	0.56
32:2a:522:G:O2'	32:2a:523:A:H5'	2.06	0.56
32:2a:608:C:H2'	32:2a:609:G:C8	2.40	0.56
32:2a:699:A:O2'	32:2a:700:A:H5'	2.06	0.56
32:2a:1194:U:H5"	32:2a:1195:A:H5'	1.87	0.56
32:2a:1233:A:H5"	40:2i:12:GLU:OE1	2.04	0.56
32:2a:1349:C:H2'	32:2a:1350:C:C6	2.40	0.56
37:2f:50:TYR:HD1	37:2f:50:TYR:O	1.89	0.56
38:2g:36:LYS:O	38:2g:39:ALA:N	2.38	0.56
50:2s:36:ARG:HH12	50:2s:75:ALA:HB3	1.71	0.56
1:1A:239:A:C5	1:1A:240:G:H1'	2.41	0.56
1:1A:344:G:H5'	5:1F:134:GLY:O	2.05	0.56
1:1A:864:G:N1	1:1A:1232:U:OP2	2.31	0.56
1:1A:2256:U:O2'	1:1A:2447:G:OP2	2.20	0.56
1:1A:2265:C:OP2	59:1A:4342:HOH:O	2.18	0.56
3:1D:5:LYS:HG2	3:1D:17:THR:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1D:5:LYS:C	3:1D:6:PHE:HD1	2.13	0.56
4:1E:67:PHE:HE1	4:1E:75:VAL:HG12	1.71	0.56
5:1F:51:THR:O	5:1F:93:LYS:NZ	2.33	0.56
5:1F:56:GLU:OE1	5:1F:93:LYS:NZ	2.38	0.56
8:1I:72:LEU:HD12	8:1I:138:ILE:HG21	1.88	0.56
8:1I:93:THR:O	8:1I:96:ASP:HB2	2.05	0.56
8:1I:130:TYR:HE2	8:1I:132:PRO:HB3	1.71	0.56
11:1P:33:ARG:CG	11:1P:40:SER:HA	2.36	0.56
15:1T:51:ARG:HB3	15:1T:62:THR:HB	1.86	0.56
20:1Y:10:GLY:O	20:1Y:26:LYS:HD2	2.05	0.56
28:16:6:ARG:HD2	28:16:25:LYS:O	2.05	0.56
32:1a:423:U:OP1	35:1d:13:ARG:NH1	2.38	0.56
32:1a:523:A:OP2	43:1l:115:LYS:NZ	2.25	0.56
32:1a:749:G:H5"	32:1a:750:A:OP1	2.05	0.56
32:1a:824:C:H4'	32:1a:825:U:OP1	2.06	0.56
39:1h:30:ARG:O	39:1h:34:GLU:HG2	2.06	0.56
44:1m:22:ILE:CB	44:1m:25:ILE:HD12	2.35	0.56
1:2A:26:G:O2'	1:2A:27:A:OP2	2.23	0.56
1:2A:108:A:O2'	24:22:65:ASN:OD1	2.13	0.56
1:2A:286:G:O6	1:2A:447:U:O2'	2.18	0.56
1:2A:295:U:O2'	1:2A:296:C:H5'	2.06	0.56
1:2A:298:G:H2'	1:2A:299:A:C8	2.41	0.56
1:2A:353:A:HO2'	1:2A:354:A:H8	1.51	0.56
1:2A:1118:A:H4'	1:2A:1119:G:OP1	2.06	0.56
1:2A:1265:C:O2'	1:2A:1266:C:H5'	2.05	0.56
1:2A:2022:A:H2'	1:2A:2023:G:C8	2.40	0.56
1:2A:2064:C:H42	1:2A:2636:G:H1	1.53	0.56
4:2E:151:TYR:O	4:2E:154:LYS:HB2	2.04	0.56
7:2H:77:LYS:HA	7:2H:80:SER:HG	1.71	0.56
15:2T:22:PHE:CD2	15:2T:49:VAL:HG11	2.41	0.56
15:2T:52:ILE:HG12	15:2T:61:PHE:CB	2.36	0.56
22:20:36:ILE:HD13	22:20:60:PHE:HB3	1.88	0.56
32:2a:280:G:O2'	32:2a:281:G:H5'	2.05	0.56
32:2a:434:G:H4'	35:2d:123:HIS:ND1	2.21	0.56
32:2a:1101:C:H1'	32:2a:1161:A:C5	2.41	0.56
32:2a:1388:G:H2'	32:2a:1389:U:H6	1.69	0.56
36:2e:15:ARG:HD2	36:2e:26:PHE:CD2	2.36	0.56
40:2i:29:ASN:ND2	40:2i:65:VAL:O	2.35	0.56
48:2q:43:LEU:HD12	48:2q:68:ARG:CB	2.35	0.56
1:1A:788:G:O2'	1:1A:1722:A:H4'	2.06	0.56
1:1A:867:A:H2'	1:1A:990:G:H5"	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:938:C:H2'	1:1A:939:C:H6	1.69	0.56
1:1A:1317:A:H3'	1:1A:1318:U:H5'	1.87	0.56
1:1A:1929:C:O2'	1:1A:1930:C:H5'	2.05	0.56
1:1A:2032:U:C2'	1:1A:2033:G:H5'	2.36	0.56
1:1A:2170:G:O2'	1:1A:2171:U:H5'	2.05	0.56
1:1A:2234:G:C2'	1:1A:2235:G:H5'	2.35	0.56
1:1A:2609:A:H2'	59:1A:4789:HOH:O	2.05	0.56
1:1A:2628:C:C2'	1:1A:2629:G:H5'	2.35	0.56
1:1A:2693:U:O4'	4:1E:12:THR:HA	2.05	0.56
4:1E:54:GLN:NE2	4:1E:58:ARG:HD2	2.21	0.56
8:1I:83:ALA:HA	8:1I:89:TYR:CE2	2.39	0.56
13:1R:32:GLY:O	13:1R:115:GLU:HA	2.05	0.56
21:1Z:40:ASP:OD1	21:1Z:42:VAL:HG12	2.06	0.56
26:14:61:ARG:NH1	50:1s:42:PRO:HD3	2.20	0.56
32:1a:172:C:O2'	32:1a:173:C:H5'	2.05	0.56
32:1a:495:C:H1'	35:1d:43:HIS:NE2	2.21	0.56
32:1a:1117:G:C2	32:1a:1118:U:H1'	2.40	0.56
32:1a:1131:U:C2'	32:1a:1132:C:H5'	2.36	0.56
33:1b:124:SER:CB	33:1b:125:PRO:HD3	2.35	0.56
38:1g:71:PRO:HA	38:1g:142:GLU:OE2	2.05	0.56
40:1i:110:GLU:CG	40:1i:119:ALA:HB1	2.36	0.56
44:1m:4:ILE:HD13	44:1m:9:ILE:HG12	1.82	0.56
1:2A:181:U:O3'	1:2A:849:U:H4'	2.05	0.56
1:2A:540:C:O2'	1:2A:541:C:H5'	2.05	0.56
1:2A:794:G:C8	18:2W:89:ALA:HB1	2.41	0.56
1:2A:2025:G:H2'	1:2A:2026:A:O4'	2.05	0.56
1:2A:2180:G:H2'	1:2A:2181:G:H8	1.70	0.56
1:2A:2187:G:H1	1:2A:2193:U:H5	1.54	0.56
3:2D:245:PRO:HB3	3:2D:253:GLN:NE2	2.14	0.56
4:2E:14:ILE:O	4:2E:21:VAL:N	2.32	0.56
5:2F:187:VAL:HG13	11:2P:2:LYS:HA	1.86	0.56
9:2N:96:GLU:N	9:2N:96:GLU:OE1	2.37	0.56
11:2P:64:LYS:NZ	30:28:12:LYS:HD3	2.21	0.56
19:2X:39:ILE:HD13	19:2X:79:ALA:CB	2.35	0.56
22:20:68:GLU:N	22:20:80:HIS:O	2.37	0.56
26:24:68:ARG:O	26:24:69:LYS:HB3	2.05	0.56
32:2a:69:G:H5'	32:2a:166:A:H1'	1.86	0.56
32:2a:1240:G:O2'	32:2a:1241:C:O4'	2.19	0.56
1:1A:706:G:O2'	1:1A:707:C:H5'	2.05	0.56
1:1A:1575:G:O2'	1:1A:1576:C:H5'	2.06	0.56
1:1A:1623:C:H2'	1:1A:1624:U:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1977:U:H2'	1:1A:1978:C:H5'	1.88	0.56
1:1A:2052:A:H1'	1:1A:2466:G:O2'	2.05	0.56
1:1A:2474:C:C2'	1:1A:2475:C:H5'	2.36	0.56
1:1A:2593:G:C2'	1:1A:2594:G:H5'	2.36	0.56
1:1A:2673:A:H2'	1:1A:2674:G:O4'	2.06	0.56
2:1B:22:U:O2'	2:1B:23:G:H5'	2.06	0.56
5:1F:132:VAL:CG2	5:1F:163:VAL:HG22	2.33	0.56
6:1G:7:LEU:O	6:1G:10:LYS:HB3	2.06	0.56
6:1G:98:ARG:NH1	26:14:1:MET:SD	2.79	0.56
6:1G:106:LEU:HA	6:1G:110:ALA:HB3	1.87	0.56
10:1O:77:ILE:CG1	10:1O:79:PHE:HE1	2.14	0.56
11:1P:130:PHE:HD2	11:1P:135:LEU:HD23	1.71	0.56
17:1V:21:ARG:NH1	17:1V:91:TYR:CE2	2.74	0.56
19:1X:6:ASP:OD1	24:12:29:LYS:NZ	2.34	0.56
32:1a:97:C:H2'	32:1a:98:G:H5'	1.88	0.56
32:1a:250:G:O2'	32:1a:251:G:H5'	2.05	0.56
32:1a:692:C:O2'	32:1a:693:G:H5'	2.06	0.56
32:1a:914:C:O2'	32:1a:915:A:H5'	2.05	0.56
32:1a:929:G:O4'	32:1a:949:G:H5'	2.06	0.56
32:1a:975:U:H3	32:1a:1027:A:N6	2.00	0.56
32:1a:1291:G:C2'	32:1a:1292:G:H5'	2.36	0.56
33:1b:134:GLU:HG3	33:1b:137:ARG:HH21	1.71	0.56
33:1b:164:VAL:HB	33:1b:186:ALA:HB2	1.88	0.56
34:1c:36:ASP:OD1	34:1c:59:ARG:NH2	2.37	0.56
35:1d:101:LEU:HD23	35:1d:121:VAL:CG1	2.35	0.56
41:1j:61:GLU:OE1	45:1n:45:ARG:NE	2.37	0.56
48:1q:4:LYS:H	48:1q:61:GLU:HG2	1.70	0.56
1:2A:103:C:H2'	1:2A:104:C:H6	1.70	0.56
1:2A:661:A:H8	11:2P:117:GLU:HG3	1.71	0.56
1:2A:776:C:O2'	1:2A:777:C:H5'	2.06	0.56
1:2A:782:C:H42	1:2A:806:G:H1	1.54	0.56
1:2A:1256:G:O2'	1:2A:1281:G:N2	2.29	0.56
1:2A:2021:G:O2'	1:2A:2022:A:H5'	2.06	0.56
1:2A:2226:G:H3'	1:2A:2227:G:H8	1.71	0.56
1:2A:2364:G:H2'	1:2A:2365:G:O4'	2.05	0.56
1:2A:2429:A:O2'	1:2A:2430:U:H5'	2.05	0.56
1:2A:2862:C:O2'	1:2A:2863:G:H5'	2.06	0.56
4:2E:170:LEU:HD23	4:2E:184:VAL:HG11	1.88	0.56
7:2H:9:ILE:O	7:2H:11:VAL:HG23	2.05	0.56
7:2H:11:VAL:HB	7:2H:48:GLY:C	2.31	0.56
8:2I:115:ALA:HB3	8:2I:129:THR:OG1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2S:10:ARG:HH21	14:2S:91:PRO:HB2	1.70	0.56
15:2T:65:LYS:O	15:2T:72:VAL:N	2.37	0.56
32:2a:583:C:H4'	39:2h:130:GLY:HA3	1.88	0.56
32:2a:1112:C:H2'	32:2a:1122:G:N7	2.19	0.56
32:2a:1474:C:H2'	32:2a:1475:G:O4'	2.05	0.56
40:2i:7:THR:O	40:2i:80:GLY:N	2.39	0.56
44:2m:3:ARG:HG3	44:2m:8:GLU:OE1	2.06	0.56
48:2q:97:SER:C	48:2q:98:LEU:HD12	2.31	0.56
1:1A:81:G:N2	1:1A:100:A:OP2	2.36	0.56
1:1A:518:G:H4'	18:1W:6:ILE:HB	1.87	0.56
1:1A:800:C:H2'	1:1A:801:C:C6	2.41	0.56
1:1A:1683:A:H4'	1:1A:2722:A:O2'	2.06	0.56
8:1I:14:ASP:OD1	8:1I:15:VAL:N	2.38	0.56
9:1N:122:VAL:C	9:1N:123:TYR:HD1	2.14	0.56
12:1Q:12:GLN:N	59:1Q:306:HOH:O	2.38	0.56
13:1R:81:ASP:O	13:1R:85:PRO:HG2	2.05	0.56
16:1U:91:ASP:O	16:1U:95:LEU:HD13	2.04	0.56
18:1W:12:ILE:O	18:1W:101:SER:OG	2.20	0.56
18:1W:64:MET:HA	18:1W:109:GLU:OE2	2.05	0.56
30:18:47:LYS:HE2	55:18:104:MPD:H51	1.87	0.56
32:1a:42:G:O2'	32:1a:43:G:H5'	2.04	0.56
32:1a:220:C:O2'	32:1a:221:C:H5'	2.05	0.56
32:1a:329:G:C2'	32:1a:330:C:H5'	2.36	0.56
32:1a:494:A:HO2'	32:1a:526:G:HO2'	1.54	0.56
32:1a:927:A:H1'	32:1a:1347:U:H3	1.70	0.56
32:1a:1011:C:H2'	32:1a:1012:G:C5'	2.35	0.56
32:1a:1205:C:P	32:1a:1206:G:H5'	2.46	0.56
32:1a:1274:U:OP2	38:1g:41:ARG:NH2	2.39	0.56
33:1b:155:LEU:CD2	33:1b:159:PRO:HG3	2.36	0.56
35:1d:62:GLN:O	35:1d:66:ARG:N	2.23	0.56
35:1d:79:PHE:CE2	35:1d:207:TYR:CD2	2.94	0.56
41:1j:43:ARG:HB2	41:1j:67:THR:OG1	2.06	0.56
44:1m:94:ARG:HH12	50:1s:80:TYR:HD2	1.54	0.56
46:1o:50:HIS:O	46:1o:53:HIS:N	2.39	0.56
1:2A:6:G:H1	1:2A:2904:C:H42	1.54	0.56
1:2A:1041:A:H1'	17:2V:9:GLY:O	2.06	0.56
1:2A:1567:G:H3'	1:2A:1568:U:H6	1.70	0.56
1:2A:2691:C:H4'	4:2E:188:VAL:O	2.06	0.56
2:2B:31:C:C2'	2:2B:32:C:H5'	2.35	0.56
4:2E:144:ARG:O	4:2E:148:GLY:N	2.38	0.56
6:2G:32:PRO:HG3	6:2G:168:GLU:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:2G:70:VAL:CA	6:2G:90:LEU:HD23	2.36	0.56
7:2H:41:MET:HE3	7:2H:65:HIS:N	2.21	0.56
7:2H:103:LEU:HB2	7:2H:123:PHE:CD2	2.41	0.56
8:2I:130:TYR:CD2	8:2I:132:PRO:HD3	2.40	0.56
9:2N:15:LEU:HD11	9:2N:55:VAL:HG13	1.88	0.56
12:2Q:55:VAL:HG12	21:2Z:178:GLU:HB3	1.88	0.56
13:2R:60:LEU:O	13:2R:63:ARG:HB3	2.05	0.56
19:2X:69:TYR:CD1	19:2X:69:TYR:N	2.73	0.56
32:2a:77:G:H2'	32:2a:78:G:H5'	1.88	0.56
32:2a:78:G:C2'	32:2a:79:G:H5'	2.35	0.56
33:2b:15:VAL:HG23	33:2b:16:HIS:CD2	2.41	0.56
33:2b:115:LEU:HA	33:2b:118:LEU:HB2	1.86	0.56
34:2c:21:ARG:NH2	34:2c:58:GLU:OE2	2.39	0.56
35:2d:8:VAL:HG22	35:2d:21:LEU:HD13	1.88	0.56
35:2d:129:ASN:OD1	35:2d:145:GLU:N	2.34	0.56
38:2g:137:LYS:HG3	38:2g:141:VAL:CG2	2.36	0.56
39:2h:8:ASP:OD2	39:2h:12:ARG:NE	2.38	0.56
39:2h:43:GLY:O	39:2h:64:LYS:NZ	2.34	0.56
40:2i:80:GLY:HA2	40:2i:83:ARG:CB	2.35	0.56
45:2n:26:ARG:CD	45:2n:47:LEU:HD11	2.36	0.56
1:1A:184:A:H2'	1:1A:184:A:N3	2.21	0.56
1:1A:713:U:O2	30:18:2:PRO:HD2	2.06	0.56
1:1A:916:A:H2'	1:1A:917:U:H5'	1.87	0.56
1:1A:2033:G:O3'	18:1W:96:ILE:HG23	2.05	0.56
1:1A:2796:C:O3'	4:1E:41:LYS:NZ	2.39	0.56
3:1D:244:ARG:NH2	59:1D:420:HOH:O	2.39	0.56
4:1E:11:MET:HB2	4:1E:23:VAL:O	2.05	0.56
5:1F:64:ILE:HG21	5:1F:78:ILE:CG2	2.36	0.56
6:1G:114:ILE:HB	6:1G:117:PHE:CD1	2.41	0.56
7:1H:11:VAL:HG13	7:1H:15:VAL:CG2	2.36	0.56
14:1S:74:ALA:HB3	14:1S:108:GLY:HA3	1.86	0.56
20:1Y:20:TYR:HB3	20:1Y:23:ARG:HD2	1.88	0.56
22:10:69:PHE:CD1	22:10:79:VAL:HG22	2.41	0.56
26:14:10:VAL:HB	26:14:11:PRO:CD	2.36	0.56
32:1a:10:G:O2'	32:1a:11:A:H5'	2.05	0.56
32:1a:334:A:C2'	32:1a:335:C:H5'	2.35	0.56
32:1a:432:C:O2'	32:1a:433:U:H5'	2.06	0.56
32:1a:548:C:H5'	48:1q:32:TYR:CE1	2.41	0.56
32:1a:1435:G:H5"	51:1t:35:THR:HG21	1.87	0.56
47:1p:38:TYR:HE1	47:1p:50:LYS:HB2	1.71	0.56
49:1r:44:LEU:HD23	49:1r:50:ILE:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:582:C:O2'	1:2A:583:G:H5'	2.06	0.56
1:2A:657:A:N3	1:2A:2414:C:H4'	2.21	0.56
1:2A:1198:C:H5'	16:2U:76:TYR:HE2	1.70	0.56
1:2A:1358:U:H2'	1:2A:1655:A:C2	2.41	0.56
1:2A:2061:C:O2'	1:2A:2062:U:H5'	2.05	0.56
1:2A:2346:A:O2'	1:2A:2347:A:OP2	2.19	0.56
1:2A:2876:G:C5	15:2T:23:ARG:HD2	2.40	0.56
2:2B:7:G:H21	14:2S:38:GLN:CD	2.12	0.56
4:2E:105:THR:HG21	4:2E:164:ARG:NH2	2.21	0.56
6:2G:97:ASP:O	6:2G:101:ILE:HG13	2.06	0.56
11:2P:59:LEU:CD2	11:2P:60:MET:HE2	2.35	0.56
13:2R:8:ARG:HD2	13:2R:43:GLU:CG	2.36	0.56
13:2R:41:ALA:HB1	13:2R:114:VAL:CG2	2.36	0.56
18:2W:54:ALA:O	18:2W:57:ASN:HB2	2.06	0.56
20:2Y:56:PRO:O	20:2Y:57:GLN:HB2	2.06	0.56
21:2Z:28:MET:HA	21:2Z:88:PHE:O	2.05	0.56
25:23:7:LYS:H	25:23:54:VAL:CG2	2.18	0.56
32:2a:1348:G:C2'	32:2a:1349:C:H5'	2.36	0.56
38:2g:115:ARG:H	38:2g:115:ARG:HD2	1.71	0.56
39:2h:19:VAL:HG23	39:2h:21:LYS:HG2	1.88	0.56
39:2h:95:VAL:HB	39:2h:99:GLU:HG2	1.87	0.56
49:2r:58:LEU:HB3	49:2r:62:GLU:HG3	1.87	0.56
51:2t:32:ALA:HA	51:2t:35:THR:HB	1.87	0.56
1:1A:16:G:H4'	16:1U:25:TRP:HE1	1.71	0.55
1:1A:1697:G:OP1	13:1R:40:LYS:HE3	2.05	0.55
1:1A:2154:G:H3'	1:1A:2178:G:N2	2.18	0.55
1:1A:2555:G:H1'	1:1A:2657:C:H4'	1.89	0.55
3:1D:12:SER:HB3	3:1D:208:LYS:HB3	1.88	0.55
3:1D:172:TYR:CE1	3:1D:186:HIS:HD2	2.22	0.55
5:1F:28:ILE:O	5:1F:30:PRO:HD3	2.06	0.55
10:1O:10:VAL:HG21	10:1O:16:ALA:O	2.06	0.55
10:1O:104:ARG:N	59:1O:8101:HOH:O	2.38	0.55
12:1Q:65:PHE:HD1	12:1Q:65:PHE:N	2.04	0.55
19:1X:21:PHE:HB3	19:1X:93:GLU:OE2	2.06	0.55
21:1Z:17:ALA:O	21:1Z:20:ARG:N	2.39	0.55
24:12:21:LEU:O	24:12:25:VAL:HG23	2.07	0.55
27:15:49:CYS:SG	27:15:51:TYR:HB2	2.46	0.55
30:18:23:VAL:CG1	30:18:47:LYS:HD3	2.36	0.55
32:1a:380:G:O2'	32:1a:381:C:H5'	2.05	0.55
32:1a:725:G:H5"	46:1o:39:LEU:HD11	1.88	0.55
32:1a:914:C:N3	32:1a:1362:G:O6	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1268:A:H2	52:1u:18:TYR:HH	1.53	0.55
32:1a:1269:A:H2	32:1a:1335:G:H1'	1.71	0.55
32:1a:1273:G:H5"	38:1g:41:ARG:NH2	2.21	0.55
35:1d:85:LYS:O	59:1d:601:HOH:O	2.18	0.55
43:1l:53:ARG:CD	43:1l:93:LEU:HD11	2.35	0.55
52:1u:20:LYS:CE	52:1u:21:TYR:HE1	2.18	0.55
1:2A:91:C:C2'	1:2A:92:G:H5'	2.36	0.55
1:2A:113:C:H2'	1:2A:114:G:O4'	2.05	0.55
1:2A:348:G:O2'	1:2A:349:G:H5'	2.06	0.55
1:2A:386:G:H2'	1:2A:387:A:H8	1.70	0.55
1:2A:466:U:H2'	1:2A:467:G:C8	2.41	0.55
1:2A:540:C:H1'	1:2A:1306:C:O2'	2.05	0.55
1:2A:590:U:H4'	1:2A:989:A:N6	2.21	0.55
1:2A:720:G:C1'	5:2F:74:ARG:HD3	2.33	0.55
1:2A:788:G:H4'	1:2A:1722:A:H5'	1.87	0.55
1:2A:2522:U:O4'	59:2A:3877:HOH:O	2.18	0.55
1:2A:2848:G:H21	13:2R:92:GLY:HA3	1.69	0.55
4:2E:23:VAL:HG21	4:2E:183:LEU:HD23	1.88	0.55
7:2H:20:ALA:HB1	7:2H:21:PRO:HD2	1.88	0.55
7:2H:74:ASN:O	7:2H:78:GLY:N	2.39	0.55
9:2N:4:TYR:HB2	16:2U:101:ARG:NH2	2.20	0.55
10:2O:68:GLU:HA	10:2O:78:ARG:HB3	1.87	0.55
14:2S:26:LEU:O	14:2S:26:LEU:HD23	2.05	0.55
16:2U:104:GLN:HG2	16:2U:105:VAL:N	2.21	0.55
24:22:5:GLU:O	24:22:9:GLN:N	2.38	0.55
32:2a:583:C:O2'	32:2a:584:C:H5'	2.06	0.55
32:2a:755:G:C2'	32:2a:756:U:H5'	2.35	0.55
32:2a:855:C:O2	39:2h:3:THR:OG1	2.15	0.55
32:2a:955:A:O2'	32:2a:959:U:N3	2.37	0.55
32:2a:964:A:H1'	50:2s:54:GLY:O	2.05	0.55
32:2a:1053:U:O2'	32:2a:1054:C:H5'	2.06	0.55
32:2a:1112:C:N3	32:2a:1126:G:N2	2.44	0.55
32:2a:1371:C:O2'	32:2a:1372:C:H5'	2.05	0.55
33:2b:95:GLN:HG2	33:2b:148:TYR:CE1	2.40	0.55
33:2b:104:ASN:OD1	33:2b:107:THR:HB	2.06	0.55
35:2d:25:ARG:HA	35:2d:28:SER:HB3	1.88	0.55
35:2d:142:PRO:CG	35:2d:188:LEU:HD12	2.36	0.55
36:2e:53:LEU:O	36:2e:57:LYS:N	2.38	0.55
37:2f:8:ILE:HG22	37:2f:10:LEU:HD12	1.88	0.55
39:2h:20:TYR:HA	39:2h:65:TYR:CZ	2.41	0.55
39:2h:83:ILE:O	39:2h:83:ILE:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:258:A:OP2	1:1A:283:G:N2	2.34	0.55
1:1A:412:G:H4'	1:1A:413:U:OP2	2.06	0.55
1:1A:988:G:O3'	59:1A:4344:HOH:O	2.18	0.55
1:1A:1241:G:H5'	1:1A:1272:G:O2'	2.06	0.55
1:1A:1252:C:H2'	1:1A:1253:G:H5'	1.88	0.55
1:1A:1645:C:O2'	1:1A:1646:G:H5'	2.06	0.55
1:1A:2247:C:H2'	1:1A:2248:G:H5'	1.88	0.55
1:1A:2374:C:O2'	1:1A:2375:C:H5'	2.06	0.55
1:1A:2385:C:H2'	1:1A:2386:G:H5'	1.89	0.55
1:1A:2610:G:OP1	59:1A:4343:HOH:O	2.18	0.55
1:1A:2730:G:O2'	1:1A:2856:U:OP1	2.18	0.55
31:19:1:MET:SD	31:19:35:ARG:HB2	2.46	0.55
32:1a:391:C:C2'	32:1a:392:G:H5'	2.36	0.55
32:1a:638:G:H21	32:1a:739:G:C4'	2.20	0.55
32:1a:920:G:O2'	32:1a:921:U:H5'	2.06	0.55
32:1a:1300:A:H4'	50:1s:10:PHE:HD2	1.71	0.55
32:1a:1355:U:P	40:1i:71:SER:HB3	2.46	0.55
32:1a:1386:C:H1'	32:1a:1478:A:N1	2.21	0.55
33:1b:122:PHE:HD2	33:1b:142:LEU:HD22	1.71	0.55
34:1c:188:LEU:HD12	34:1c:196:LEU:O	2.05	0.55
36:1e:69:VAL:O	36:1e:69:VAL:HG23	2.05	0.55
37:1f:20:ALA:O	37:1f:23:LYS:HB2	2.07	0.55
1:2A:83:G:O5'	20:2Y:30:VAL:HB	2.07	0.55
1:2A:189:C:P	23:21:37:ILE:HD12	2.46	0.55
1:2A:207:G:H2'	1:2A:208:G:O4'	2.07	0.55
1:2A:535:U:OP2	59:2A:3873:HOH:O	2.17	0.55
1:2A:1277:G:O2'	1:2A:1278:C:H5'	2.06	0.55
1:2A:2144:G:O2'	1:2A:2145:G:H5'	2.05	0.55
1:2A:2149:C:H3'	1:2A:2150:C:C5'	2.24	0.55
1:2A:2169:G:O2'	1:2A:2170:G:H5'	2.05	0.55
1:2A:2214:G:H2'	1:2A:2215:G:C8	2.41	0.55
1:2A:2275:C:O2'	1:2A:2276:U:H5'	2.06	0.55
1:2A:2405:C:C2'	1:2A:2406:C:H5'	2.36	0.55
1:2A:2735:C:O3'	13:2R:1:MET:HE1	2.06	0.55
3:2D:26:LYS:HD3	3:2D:83:GLU:OE2	2.07	0.55
4:2E:179:GLU:O	4:2E:180:ASN:HB2	2.05	0.55
8:2I:1:MET:HE1	8:2I:38:LEU:HD11	1.87	0.55
9:2N:37:LYS:O	16:2U:67:ALA:HB2	2.06	0.55
15:2T:51:ARG:HE	15:2T:53:ARG:HG3	1.71	0.55
15:2T:52:ILE:HG12	15:2T:61:PHE:HB2	1.87	0.55
21:2Z:24:LEU:HB3	21:2Z:39:VAL:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:12:G:C2'	32:2a:13:U:H5'	2.36	0.55
32:2a:188:C:H1'	32:2a:192:G:N2	2.21	0.55
32:2a:1386:C:C2	32:2a:1387:5MC:HM53	2.41	0.55
36:2e:122:GLU:OE2	36:2e:131:ILE:HG21	2.06	0.55
37:2f:75:LEU:O	37:2f:78:GLU:N	2.38	0.55
38:2g:77:SER:HA	38:2g:85:TYR:O	2.06	0.55
42:2k:21:ILE:HA	42:2k:29:ILE:O	2.06	0.55
52:2u:20:LYS:HD3	52:2u:21:TYR:CE1	2.34	0.55
1:1A:286:G:O6	1:1A:447:U:O2'	2.15	0.55
1:1A:383:G:C2'	1:1A:384:G:H5'	2.36	0.55
1:1A:712:G:C2'	1:1A:713:U:H5'	2.36	0.55
1:1A:1540:A:H2'	1:1A:1541:A:C8	2.42	0.55
1:1A:1840:A:C2'	1:1A:1841:G:H5'	2.35	0.55
1:1A:1893:G:H2'	1:1A:1894:U:H6	1.71	0.55
1:1A:2313:G:O2'	1:1A:2314:G:H5'	2.05	0.55
1:1A:2519:G:O2'	1:1A:2520:G:H5'	2.07	0.55
1:1A:2797:C:P	4:1E:41:LYS:HZ1	2.29	0.55
1:1A:2798:U:H2'	1:1A:2799:C:H5'	1.87	0.55
4:1E:174:ASP:OD1	4:1E:175:VAL:N	2.40	0.55
12:1Q:16:ARG:NH1	12:1Q:18:LYS:HB3	2.20	0.55
12:1Q:26:TYR:OH	59:1Q:308:HOH:O	2.16	0.55
18:1W:11:ARG:HH11	18:1W:11:ARG:HG2	1.72	0.55
28:16:35:GLU:OE2	28:16:50:ARG:NH1	2.33	0.55
32:1a:280:G:O2'	32:1a:281:G:H5'	2.07	0.55
32:1a:399:C:O2'	32:1a:400:U:H5'	2.06	0.55
32:1a:807:G:O2'	32:1a:808:C:H5'	2.07	0.55
32:1a:1263:U:O2'	32:1a:1264:C:H5'	2.06	0.55
35:1d:201:GLN:O	35:1d:204:ILE:HB	2.06	0.55
38:1g:146:GLU:OE1	38:1g:149:ARG:NE	2.39	0.55
41:1j:12:ASP:HB3	41:1j:15:THR:OG1	2.06	0.55
43:1l:68:ALA:HB1	43:1l:100:ILE:HG13	1.88	0.55
45:1n:15:LYS:HG2	45:1n:16:PHE:CD1	2.41	0.55
49:1r:37:VAL:HG22	49:1r:41:LYS:HD3	1.89	0.55
51:1t:40:ALA:HB2	51:1t:55:ILE:CB	2.30	0.55
1:2A:933:A:H1'	1:2A:935:C:C5	2.38	0.55
1:2A:1107:G:H2'	1:2A:1108:G:H8	1.71	0.55
1:2A:1520:C:O2'	1:2A:1521:G:H5'	2.06	0.55
1:2A:1828:U:H5'	3:2D:259:THR:CG2	2.37	0.55
1:2A:2323:U:O2'	6:2G:71:THR:OG1	2.25	0.55
1:2A:2367:C:OP1	22:20:24:LYS:NZ	2.20	0.55
1:2A:2455:G:OP2	59:2A:3875:HOH:O	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:43:ARG:HA	3:2D:48:ARG:O	2.06	0.55
4:2E:14:ILE:C	4:2E:15:PHE:HD1	2.15	0.55
5:2F:36:VAL:O	5:2F:39:TRP:HB3	2.06	0.55
11:2P:90:ARG:HG3	11:2P:91:PHE:CD1	2.41	0.55
13:2R:10:LEU:HD13	13:2R:20:LEU:HD21	1.88	0.55
18:2W:14:PRO:HG2	18:2W:78:GLU:HB2	1.88	0.55
19:2X:55:ASN:O	19:2X:79:ALA:HA	2.05	0.55
21:2Z:48:PHE:CE1	21:2Z:52:SER:HA	2.40	0.55
32:2a:96:G:O2'	32:2a:97:C:H5'	2.07	0.55
32:2a:661:U:H3	32:2a:697:G:H22	1.55	0.55
32:2a:779:C:H5"	32:2a:780:C:OP2	2.06	0.55
32:2a:950:C:H4'	41:2j:57:LYS:CB	2.35	0.55
32:2a:976:G:N2	32:2a:1026:C:N3	2.46	0.55
32:2a:1204:G:O2'	32:2a:1205:C:H5'	2.07	0.55
32:2a:1268:A:H2'	32:2a:1269:A:C5'	2.36	0.55
32:2a:1294:G:H1	32:2a:1307:C:H42	1.53	0.55
32:2a:1303:C:H4'	44:2m:87:TYR:CE2	2.42	0.55
33:2b:71:VAL:HG21	33:2b:164:VAL:HG22	1.87	0.55
34:2c:73:PRO:O	34:2c:76:VAL:N	2.36	0.55
37:2f:49:ALA:HB2	49:2r:78:LEU:O	2.06	0.55
42:2k:115:PRO:HB2	42:2k:117:ASN:O	2.07	0.55
48:2q:56:VAL:O	48:2q:76:LEU:HD12	2.06	0.55
1:1A:109:U:H2'	1:1A:110:G:H5'	1.87	0.55
1:1A:715:G:H3'	1:1A:716:A:C8	2.41	0.55
1:1A:955:A:N6	12:1Q:11:LYS:O	2.39	0.55
1:1A:1701:A:O2'	4:1E:115:GLY:HA2	2.07	0.55
1:1A:1825:C:H1'	1:1A:1922:A:OP1	2.06	0.55
1:1A:1895:G:N2	1:1A:1898:A:OP2	2.35	0.55
1:1A:2074:G:H5'	4:1E:144:ARG:O	2.07	0.55
1:1A:2356:G:N3	1:1A:2392:C:H2'	2.22	0.55
3:1D:106:ILE:N	59:1D:415:HOH:O	2.23	0.55
4:1E:175:VAL:HG12	4:1E:182:LEU:CD1	2.36	0.55
6:1G:75:LYS:HA	6:1G:84:LYS:CG	2.37	0.55
8:1I:99:GLU:C	8:1I:102:SER:HG	2.13	0.55
8:1I:114:LEU:HD12	8:1I:130:TYR:HA	1.89	0.55
9:1N:39:ARG:HD2	59:1N:308:HOH:O	2.07	0.55
12:1Q:75:THR:OG1	12:1Q:88:GLY:O	2.25	0.55
29:17:34:ARG:HG2	29:17:42:LEU:HD22	1.87	0.55
32:1a:265:C:O2'	32:1a:266:A:H5'	2.07	0.55
32:1a:623:G:O2'	32:1a:624:A:H5'	2.06	0.55
32:1a:917:G:N3	32:1a:1358:A:H2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:959:U:H2'	32:1a:960:U:C5	2.40	0.55
32:1a:1361:C:O2	38:1g:76:ARG:NH1	2.39	0.55
32:1a:1394:C:O2'	32:1a:1395:C:H5'	2.07	0.55
32:1a:1425:G:HO2'	32:1a:1426:G:P	2.28	0.55
32:1a:1434:G:N2	51:1t:51:GLU:OE2	2.39	0.55
33:1b:174:VAL:HG11	33:1b:196:LEU:HG	1.88	0.55
35:1d:111:ALA:HB1	35:1d:116:GLN:CB	2.36	0.55
35:1d:176:LEU:O	35:1d:178:VAL:HG23	2.06	0.55
39:1h:37:ARG:NH2	39:1h:38:ILE:HD11	2.22	0.55
49:1r:30:ASP:HB3	49:1r:33:ASP:HB2	1.86	0.55
1:2A:559:C:H2'	1:2A:560:A:C8	2.41	0.55
1:2A:716:A:H5'	11:2P:42:SER:OG	2.07	0.55
1:2A:819:U:C4'	3:2D:47:GLY:HA3	2.36	0.55
1:2A:1584:G:H2'	1:2A:1585:G:H8	1.72	0.55
1:2A:1864:U:O4	1:2A:1921:A:N6	2.39	0.55
1:2A:1955:C:H4'	1:2A:1995:C:O3'	2.07	0.55
1:2A:2273:U:O2'	1:2A:2274:C:H5'	2.07	0.55
1:2A:2746:A:H62	1:2A:2782:G:H21	1.53	0.55
3:2D:130:ALA:O	3:2D:131:LEU:HD12	2.06	0.55
4:2E:37:ARG:HB2	4:2E:46:ALA:N	2.22	0.55
4:2E:72:VAL:HG22	4:2E:73:GLU:O	2.07	0.55
4:2E:89:ASP:O	4:2E:90:THR:OG1	2.23	0.55
4:2E:113:PHE:HA	4:2E:158:GLY:O	2.05	0.55
14:2S:35:ILE:HD13	14:2S:66:ALA:HB2	1.88	0.55
15:2T:50:ILE:CG2	15:2T:102:ILE:HD11	2.36	0.55
22:20:44:ARG:C	22:20:45:PHE:HD1	2.15	0.55
32:2a:153:G:C2'	32:2a:154:G:H5'	2.37	0.55
32:2a:419:G:H2'	32:2a:420:G:O4'	2.07	0.55
32:2a:566:U:O2'	32:2a:567:A:H5'	2.06	0.55
32:2a:691:C:H4'	42:2k:20:TYR:CG	2.42	0.55
32:2a:1117:G:N2	32:2a:1123:C:N3	2.54	0.55
37:2f:50:TYR:HE2	49:2r:81:PHE:HE2	1.53	0.55
38:2g:57:GLU:CG	38:2g:59:LEU:HB3	2.37	0.55
44:2m:22:ILE:O	44:2m:24:GLY:N	2.40	0.55
47:2p:34:GLU:O	47:2p:36:ILE:HG23	2.06	0.55
48:2q:94:ASN:O	48:2q:98:LEU:HD13	2.07	0.55
1:1A:401:C:O2'	1:1A:402:C:H5'	2.07	0.55
1:1A:1038:G:H1'	17:1V:89:GLN:OE1	2.06	0.55
1:1A:2205:G:H2'	1:1A:2206:C:H6	1.72	0.55
1:1A:2478:C:C2'	1:1A:2479:G:H5'	2.37	0.55
3:1D:210:GLY:O	3:1D:213:ARG:N	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:35:GLU:HB2	6:1G:160:VAL:HG12	1.87	0.55
8:1I:38:LEU:HB3	8:1I:40:THR:CG2	2.36	0.55
12:1Q:137:TYR:HB3	21:1Z:76:LEU:HD21	1.89	0.55
29:17:34:ARG:HG3	29:17:39:ARG:CG	2.32	0.55
32:1a:406:G:H3'	35:1d:25:ARG:NH2	2.22	0.55
32:1a:978:U:H2'	32:1a:979:A:C8	2.41	0.55
32:1a:1092:C:P	34:1c:176:HIS:HD1	2.29	0.55
32:1a:1470:A:H4'	32:1a:1471:A:C5	2.40	0.55
32:1a:1471:A:P	43:1l:47:LYS:HZ1	2.27	0.55
32:1a:1489:G:H2'	32:1a:1490:U:O4'	2.06	0.55
35:1d:101:LEU:CD2	35:1d:121:VAL:HG13	2.34	0.55
36:1e:39:GLY:HA2	36:1e:69:VAL:CG2	2.36	0.55
36:1e:80:ILE:CG2	36:1e:91:LEU:HB2	2.37	0.55
39:1h:7:ALA:O	39:1h:11:THR:N	2.27	0.55
41:1j:7:LYS:O	41:1j:96:ILE:HA	2.06	0.55
47:1p:21:VAL:HG12	47:1p:34:GLU:O	2.06	0.55
50:1s:41:VAL:HG22	50:1s:42:PRO:CD	2.32	0.55
1:2A:268:G:H2'	1:2A:269:C:C6	2.41	0.55
1:2A:512:C:C2'	1:2A:513:G:H5'	2.37	0.55
1:2A:708:G:O2'	1:2A:709:G:H5'	2.07	0.55
1:2A:710:C:H4'	1:2A:984:G:O3'	2.06	0.55
1:2A:994:G:O2'	1:2A:995:C:H5'	2.06	0.55
1:2A:2032:U:C2'	1:2A:2033:G:H5'	2.37	0.55
1:2A:2452:C:OP2	1:2A:2597:C:O2'	2.20	0.55
1:2A:2587:G:H5"	1:2A:2588:A:OP1	2.06	0.55
3:2D:76:PRO:HB2	3:2D:116:GLN:NE2	2.11	0.55
5:2F:113:ALA:O	5:2F:116:ASP:HB3	2.07	0.55
19:2X:28:PHE:HD1	19:2X:28:PHE:N	2.03	0.55
20:2Y:89:PHE:HE1	20:2Y:95:LYS:HD3	1.70	0.55
21:2Z:57:ILE:CD1	21:2Z:71:VAL:HG23	2.36	0.55
21:2Z:99:TYR:CE1	21:2Z:125:LEU:HD13	2.40	0.55
30:28:31:HIS:ND1	30:28:32:LEU:HB2	2.22	0.55
32:2a:1043:C:H4'	41:2j:51:ARG:HB3	1.88	0.55
32:2a:1168:G:O2'	32:2a:1169:G:H5'	2.07	0.55
32:2a:1260:U:C5'	32:2a:1261:A:H5'	2.36	0.55
33:2b:165:VAL:HG12	33:2b:166:ASP:N	2.22	0.55
34:2c:182:ILE:HG22	34:2c:183:ASP:O	2.07	0.55
43:2l:70:ILE:HG12	43:2l:100:ILE:HD12	1.89	0.55
44:2m:94:ARG:NH1	50:2s:80:TYR:HD2	2.04	0.55
1:1A:519:G:H1'	18:1W:57:ASN:OD1	2.06	0.55
1:1A:753:G:H1	1:1A:770:U:H3	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1147:C:H3'	1:1A:1148:A:H8	1.70	0.55
1:1A:1183:G:O2'	1:1A:1188:A:N1	2.28	0.55
1:1A:1472:A:H4'	1:1A:1473:C:O5'	2.07	0.55
8:1I:57:ARG:HG3	8:1I:58:LEU:N	2.21	0.55
8:1I:130:TYR:CE2	8:1I:132:PRO:HB3	2.41	0.55
10:1O:53:LYS:HG2	10:1O:56:ASP:OD2	2.06	0.55
15:1T:45:PHE:HD1	15:1T:65:LYS:HD2	1.69	0.55
19:1X:93:GLU:C	19:1X:95:LEU:HA	2.31	0.55
28:16:19:ARG:HE	28:16:52:VAL:HG11	1.72	0.55
32:1a:242:A:H4'	32:1a:243:G:OP1	2.06	0.55
32:1a:379:A:C5	32:1a:380:G:H1'	2.42	0.55
32:1a:540:C:O2'	32:1a:541:G:H5'	2.07	0.55
32:1a:1089:G:OP1	34:1c:172:ARG:HD2	2.05	0.55
32:1a:1466:G:O2'	32:1a:1467:G:H5'	2.05	0.55
33:1b:219:VAL:HA	33:1b:222:ILE:CD1	2.33	0.55
35:1d:133:VAL:HG13	35:1d:135:LEU:HB2	1.88	0.55
39:1h:12:ARG:HD3	39:1h:26:VAL:HG12	1.88	0.55
43:1l:35:GLY:HA3	43:1l:58:VAL:HG11	1.85	0.55
44:1m:53:VAL:HG12	44:1m:57:ARG:NH1	2.22	0.55
46:1o:82:ILE:HG13	46:1o:83:GLU:N	2.22	0.55
47:1p:75:ARG:O	47:1p:78:GLY:N	2.32	0.55
52:1u:18:TYR:HB3	52:1u:22:ARG:O	2.07	0.55
1:2A:278:G:C2'	1:2A:279:C:H5'	2.37	0.55
1:2A:473:U:H1'	5:2F:84:VAL:HG11	1.89	0.55
1:2A:984:G:H2'	1:2A:985:A:O4'	2.07	0.55
1:2A:1320:A:O2'	1:2A:1691:G:N3	2.39	0.55
1:2A:2127:G:C4	1:2A:2128:C:H1'	2.42	0.55
1:2A:2150:C:N3	1:2A:2180:G:C6	2.75	0.55
1:2A:2416:G:HO2'	1:2A:2417:U:P	2.29	0.55
1:2A:2690:A:O2'	1:2A:2691:C:H5'	2.06	0.55
1:2A:2839:G:O2'	1:2A:2840:G:H5'	2.05	0.55
2:2B:103:G:C2'	2:2B:104:U:H5'	2.37	0.55
19:2X:35:THR:O	19:2X:39:ILE:N	2.39	0.55
21:2Z:54:HIS:CG	21:2Z:101:PRO:HG3	2.41	0.55
21:2Z:136:PHE:N	21:2Z:136:PHE:CD1	2.73	0.55
28:26:8:LYS:HD3	30:28:34:TRP:CD2	2.41	0.55
32:2a:1198:G:O2'	32:2a:1199:C:H5'	2.07	0.55
32:2a:1233:A:H4'	40:2i:12:GLU:HG3	1.88	0.55
32:2a:1345:C:OP2	32:2a:1346:A:H2'	2.06	0.55
33:2b:47:THR:HG22	33:2b:51:LEU:HD11	1.89	0.55
35:2d:101:LEU:HD23	35:2d:121:VAL:HG11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:2g:37:ASN:OD1	40:2i:40:LEU:HA	2.07	0.55
41:2j:34:VAL:HG23	41:2j:34:VAL:O	2.07	0.55
42:2k:33:THR:HB	42:2k:37:GLY:C	2.32	0.55
47:2p:23:ASP:OD1	47:2p:24:ALA:N	2.40	0.55
48:2q:59:ILE:HD12	48:2q:71:PHE:HD2	1.72	0.55
48:2q:86:GLU:O	48:2q:90:ILE:HG12	2.06	0.55
1:1A:169:A:H5"	29:17:36:GLN:NE2	2.22	0.55
1:1A:579:U:H2'	1:1A:580:G:C8	2.42	0.55
1:1A:1660:C:O2'	1:1A:1661:A:H5"	2.07	0.55
1:1A:1902:C:O2'	1:1A:1903:C:H5'	2.07	0.55
1:1A:1925:G:O2'	1:1A:1926:C:H5'	2.06	0.55
1:1A:1989:G:O2'	1:1A:1990:A:O4'	2.23	0.55
1:1A:2135:A:H3'	1:1A:2136:G:H8	1.71	0.55
1:1A:2650:A:H2'	1:1A:2651:G:O4'	2.06	0.55
32:1a:553:C:H42	32:1a:859:G:H1	1.53	0.55
32:1a:564:U:O4	59:1a:2019:HOH:O	2.16	0.55
32:1a:1184:G:C2	45:1n:42:ILE:HG21	2.42	0.55
32:1a:1478:A:OP1	59:1a:2057:HOH:O	2.18	0.55
34:1c:191:THR:HB	34:1c:193:TYR:CE1	2.41	0.55
35:1d:52:SER:O	35:1d:56:VAL:HG23	2.06	0.55
37:1f:94:GLN:CG	49:1r:32:ARG:HD3	2.36	0.55
40:1i:28:VAL:HA	40:1i:63:ILE:HB	1.89	0.55
42:1k:108:ILE:HG21	49:1r:87:ARG:HD2	1.87	0.55
49:1r:43:PHE:HD2	49:1r:66:LEU:CD2	2.19	0.55
1:2A:86:G:O2'	1:2A:87:G:H5'	2.07	0.55
1:2A:145:G:H2'	1:2A:146:U:O4'	2.07	0.55
1:2A:556:A:H2'	1:2A:556:A:N3	2.21	0.55
1:2A:747:G:O2'	1:2A:748:G:H5'	2.06	0.55
1:2A:991:G:OP1	59:2A:3876:HOH:O	2.18	0.55
1:2A:1040:C:H42	9:2N:2:LYS:HB3	1.72	0.55
1:2A:1575:G:O2'	1:2A:1576:C:H5'	2.05	0.55
1:2A:1885:G:C2'	1:2A:1886:G:H5'	2.37	0.55
1:2A:2289:A:H2'	1:2A:2290:G:H5"	1.87	0.55
3:2D:169:GLU:HG2	3:2D:184:LYS:HZ1	1.68	0.55
7:2H:163:TYR:CE2	7:2H:169:VAL:HG22	2.42	0.55
12:2Q:35:VAL:HG23	12:2Q:101:ARG:C	2.32	0.55
12:2Q:79:LEU:O	12:2Q:81:VAL:HG13	2.06	0.55
12:2Q:137:TYR:N	12:2Q:137:TYR:HD1	2.05	0.55
13:2R:9:LYS:C	13:2R:17:ARG:HD3	2.32	0.55
21:2Z:130:PRO:O	21:2Z:133:ILE:HG13	2.07	0.55
32:2a:13:U:H3	32:2a:23:G:H1	1.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:373:G:H5'	47:2p:5:ARG:NH1	2.21	0.55
32:2a:489:G:H1	32:2a:510:C:H42	1.54	0.55
32:2a:490:G:H1	32:2a:509:C:H42	1.55	0.55
32:2a:608:C:H4'	47:2p:10:GLY:O	2.07	0.55
32:2a:766:A:C2'	32:2a:767:C:H5'	2.36	0.55
33:2b:132:LYS:O	33:2b:135:GLN:HB2	2.07	0.55
34:2c:79:ARG:O	34:2c:82:GLU:N	2.37	0.55
36:2e:110:LEU:O	36:2e:115:VAL:HB	2.07	0.55
38:2g:49:ILE:HD12	38:2g:117:ALA:HB1	1.88	0.55
38:2g:95:ARG:HG2	38:2g:99:LEU:HD11	1.89	0.55
44:2m:4:ILE:CD1	44:2m:60:VAL:HG11	2.37	0.55
44:2m:102:ARG:NH1	44:2m:105:THR:OG1	2.39	0.55
50:2s:50:ALA:HA	50:2s:58:VAL:O	2.06	0.55
1:1A:276:G:O2'	1:1A:277:G:H5'	2.07	0.55
1:1A:473:U:H1'	5:1F:84:VAL:CG1	2.37	0.55
1:1A:1141:A:OP1	1:1A:2485:C:O2'	2.25	0.55
1:1A:1355:G:C2'	1:1A:1356:G:H5'	2.37	0.55
1:1A:1496:G:O2'	1:1A:1497:C:H5'	2.07	0.55
1:1A:1947:U:H2'	1:1A:1949:A:OP2	2.07	0.55
1:1A:1972:U:H2'	1:1A:1974:A:OP2	2.06	0.55
1:1A:2000:C:O2'	1:1A:2001:G:H5'	2.06	0.55
1:1A:2008:G:O2'	1:1A:2009:C:H5'	2.07	0.55
1:1A:2250:G:H5'	3:1D:251:GLY:CA	2.37	0.55
1:1A:2318:G:N2	6:1G:43:LEU:O	2.36	0.55
1:1A:2613:A:C1'	1:1A:2614:G:H5"	2.37	0.55
1:1A:2723:U:O2'	1:1A:2724:A:OP2	2.24	0.55
1:1A:2743:G:OP1	4:1E:169:ASN:ND2	2.35	0.55
1:1A:2885:G:OP1	15:1T:2:ASN:HA	2.06	0.55
4:1E:183:LEU:HD21	15:1T:10:VAL:HG11	1.87	0.55
5:1F:7:TYR:OH	5:1F:26:ALA:HA	2.06	0.55
6:1G:33:ARG:NE	6:1G:162:THR:HG21	2.22	0.55
11:1P:126:VAL:CG1	11:1P:148:LEU:HD21	2.36	0.55
12:1Q:65:PHE:N	12:1Q:65:PHE:CD1	2.75	0.55
16:1U:44:ASN:HB2	59:1U:317:HOH:O	2.07	0.55
26:14:28:LYS:C	26:14:30:GLU:H	2.15	0.55
26:14:59:PHE:HB3	50:1s:64:GLU:HG2	1.89	0.55
32:1a:152:G:C2'	32:1a:153:G:H5'	2.37	0.55
32:1a:778:A:O2'	32:1a:1499:G:O2'	2.24	0.55
32:1a:951:G:OP1	32:1a:952:A:H3'	2.07	0.55
32:1a:1109:U:O2	32:1a:1262:A:H3'	2.07	0.55
32:1a:1243:A:N1	32:1a:1257:A:H1'	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1425:G:O2'	32:1a:1426:G:O5'	2.24	0.55
33:1b:9:GLU:O	33:1b:10:LEU:HB2	2.05	0.55
34:1c:77:ILE:O	34:1c:84:ILE:N	2.30	0.55
34:1c:188:LEU:HD11	34:1c:195:VAL:CG1	2.36	0.55
35:1d:106:TYR:CD2	35:1d:114:ARG:HG3	2.41	0.55
38:1g:69:VAL:CG1	38:1g:100:ALA:HA	2.37	0.55
1:2A:318:G:H5'	20:2Y:1:MET:HE1	1.87	0.55
1:2A:588:U:O2'	1:2A:855:G:OP2	2.21	0.55
1:2A:615:G:H1	1:2A:710:C:H42	1.55	0.55
1:2A:737:C:H42	1:2A:817:G:H1	1.54	0.55
1:2A:791:G:H2'	1:2A:792:A:H5'	1.87	0.55
1:2A:933:A:C2'	1:2A:934:C:H5"	2.36	0.55
1:2A:1032:G:C2	1:2A:1033:A:H1'	2.42	0.55
1:2A:1127:U:H3	1:2A:1130:A:H2	1.55	0.55
1:2A:1269:C:O2'	17:2V:85:LYS:HG3	2.06	0.55
1:2A:1697:G:H3'	59:2A:3719:HOH:O	2.06	0.55
1:2A:2019:G:H4'	1:2A:2736:C:O2'	2.05	0.55
1:2A:2415:C:H42	1:2A:2424:G:H1	1.53	0.55
1:2A:2530:U:H4'	1:2A:2531:C:OP1	2.05	0.55
5:2F:51:THR:CG2	5:2F:92:PRO:HD2	2.36	0.55
15:2T:22:PHE:HA	15:2T:91:ARG:NH1	2.21	0.55
18:2W:75:TYR:N	59:2W:301:HOH:O	2.24	0.55
19:2X:69:TYR:HD1	19:2X:69:TYR:N	2.05	0.55
21:2Z:149:SER:C	21:2Z:150:LEU:HD12	2.32	0.55
21:2Z:193:GLU:CG	21:2Z:194:PRO:HD2	2.36	0.55
25:23:29:ARG:HB2	25:23:30:ARG:NH1	2.21	0.55
32:2a:41:C:O2'	32:2a:42:G:H5'	2.07	0.55
32:2a:73:C:H42	32:2a:91:G:H1	1.55	0.55
32:2a:114:A:H2'	32:2a:115:C:H4'	1.89	0.55
32:2a:173:C:H2'	32:2a:174:A:C8	2.34	0.55
32:2a:356:A:O2'	32:2a:357:G:H5'	2.07	0.55
32:2a:393:A:H3'	32:2a:393:A:N3	2.22	0.55
32:2a:536:U:H1'	43:2l:32:PHE:HE1	1.72	0.55
32:2a:647:A:O3'	49:2r:64:ARG:NH2	2.38	0.55
32:2a:1180:G:H2'	32:2a:1181:U:C6	2.41	0.55
33:2b:78:GLN:C	33:2b:94:ASN:HD21	2.14	0.55
35:2d:4:TYR:O	35:2d:5:ILE:HG22	2.07	0.55
35:2d:74:GLN:O	35:2d:78:LEU:HG	2.07	0.55
38:2g:125:MET:O	38:2g:129:GLU:HG3	2.07	0.55
42:2k:59:TYR:O	42:2k:63:LEU:HG	2.07	0.55
42:2k:78:GLN:O	42:2k:103:LEU:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:2u:18:TYR:HD2	52:2u:24:ARG:HB2	1.72	0.55
1:1A:468:A:O2'	1:1A:1244:C:O2'	2.17	0.55
1:1A:871:C:H4'	1:1A:2439:G:N7	2.22	0.55
1:1A:956:A:H5"	1:1A:957:C:C5'	2.37	0.55
1:1A:1931:G:O2'	1:1A:1932:PSU:H5"	2.06	0.55
1:1A:2118:C:O2'	1:1A:2119:U:H5'	2.07	0.55
1:1A:2640:A:H1'	1:1A:2641:G:H5"	1.89	0.55
1:1A:2699:U:O2'	1:1A:2733:A:N6	2.40	0.55
3:1D:44:ASN:ND2	3:1D:50:THR:HG21	2.21	0.55
3:1D:72:LYS:HD3	3:1D:97:TYR:HE2	1.69	0.55
6:1G:33:ARG:CZ	6:1G:162:THR:HG21	2.37	0.55
7:1H:174:GLY:O	7:1H:175:LYS:HB2	2.06	0.55
10:1O:121:VAL:CG2	55:1a:1900:MPD:HM3	2.36	0.55
15:1T:127:ALA:O	15:1T:129:ARG:N	2.39	0.55
16:1U:90:VAL:HG12	16:1U:95:LEU:CD1	2.36	0.55
17:1V:2:PHE:HE1	17:1V:41:GLY:HA3	1.72	0.55
24:12:2:LYS:O	24:12:6:VAL:HG23	2.06	0.55
26:14:56:VAL:O	26:14:60:GLN:HG2	2.07	0.55
32:1a:251:G:P	48:1q:69:LYS:HZ3	2.30	0.55
32:1a:602:C:H3'	32:1a:603:U:H5"	1.88	0.55
32:1a:893:A:C3'	32:1a:894:G:H5"	2.35	0.55
32:1a:944:M2G:H8	32:1a:944:M2G:OP2	1.90	0.55
32:1a:1103:G:H1	32:1a:1136:C:N4	2.04	0.55
32:1a:1131:U:O4'	40:1i:16:ARG:HD2	2.07	0.55
32:1a:1253:G:O2'	32:1a:1254:G:H5'	2.07	0.55
33:1b:35:GLU:CB	33:1b:40:HIS:HA	2.35	0.55
34:1c:22:TRP:HH2	34:1c:29:TYR:HD1	1.53	0.55
36:1e:90:VAL:C	36:1e:91:LEU:HD12	2.31	0.55
47:1p:72:ARG:O	47:1p:75:ARG:HB2	2.07	0.55
1:2A:275:C:H4'	8:2I:42:SER:OG	2.07	0.55
1:2A:657:A:H1'	1:2A:2414:C:O3'	2.06	0.55
1:2A:953:C:O2'	1:2A:954:A:H5'	2.06	0.55
1:2A:2173:G:H2'	1:2A:2174:G:C8	2.42	0.55
1:2A:2303:C:N4	1:2A:2351:G:O6	2.40	0.55
1:2A:2316:A:N3	6:2G:136:ARG:HA	2.22	0.55
1:2A:2699:U:OP1	1:2A:2725:A:N6	2.39	0.55
2:2B:40:U:O4	26:24:1:MET:N	2.24	0.55
6:2G:38:VAL:HG22	6:2G:93:THR:CG2	2.36	0.55
6:2G:59:GLU:O	6:2G:62:LEU:HB2	2.06	0.55
7:2H:98:LEU:HD12	7:2H:102:ALA:O	2.07	0.55
9:2N:80:GLY:C	9:2N:82:LEU:H	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:30:GLY:HA2	12:2Q:107:ALA:HB2	1.89	0.55
15:2T:23:ARG:HE	15:2T:120:ARG:HH11	1.54	0.55
17:2V:65:GLY:CA	17:2V:91:TYR:HE1	2.20	0.55
19:2X:57:LEU:O	19:2X:77:LYS:HA	2.07	0.55
21:2Z:97:GLU:OE2	21:2Z:125:LEU:HD21	2.07	0.55
25:23:8:LEU:HG	25:23:31:LEU:HD23	1.88	0.55
32:2a:57:U:O2'	32:2a:58:G:H5'	2.06	0.55
32:2a:60:A:H1'	32:2a:350:G:N2	2.22	0.55
32:2a:484:G:N2	32:2a:530:G:H1'	2.22	0.55
32:2a:1450:U:H2'	32:2a:1451:A:H5'	1.88	0.55
34:2c:182:ILE:HA	34:2c:202:ILE:O	2.06	0.55
47:2p:2:VAL:HG13	47:2p:64:ALA:HA	1.89	0.55
49:2r:37:VAL:O	49:2r:41:LYS:N	2.25	0.55
1:1A:231:U:C2'	1:1A:232:A:H5'	2.37	0.55
1:1A:305:A:N3	1:1A:305:A:H2'	2.21	0.55
1:1A:551:C:C4	1:1A:2791:U:H2'	2.42	0.55
1:1A:644:G:H2'	1:1A:644:G:N3	2.22	0.55
1:1A:963:A:H1'	2:1B:80:U:O2'	2.07	0.55
1:1A:978:G:O2'	1:1A:979:C:H5'	2.07	0.55
1:1A:1220:G:H1'	1:1A:1221:A:H5'	1.88	0.55
1:1A:1493:G:O2'	1:1A:1590:A:N3	2.36	0.55
1:1A:1610:C:O2'	1:1A:1611:C:H5'	2.07	0.55
1:1A:2041:A:H4'	16:1U:25:TRP:HZ3	1.72	0.55
1:1A:2305:C:P	14:1S:89:ARG:HH22	2.30	0.55
2:1B:117:G:H5"	14:1S:55:ALA:HB2	1.89	0.55
3:1D:78:LYS:HG2	3:1D:114:GLY:O	2.06	0.55
9:1N:96:GLU:O	9:1N:100:GLU:HG3	2.07	0.55
13:1R:41:ALA:HB1	13:1R:114:VAL:CG2	2.37	0.55
13:1R:45:ARG:HD3	13:1R:97:VAL:CG2	2.37	0.55
23:11:77:ALA:HB2	23:11:94:LEU:CD2	2.37	0.55
32:1a:199:U:O2'	32:1a:200:C:H5'	2.07	0.55
32:1a:472:A:H2'	32:1a:473:C:O4'	2.07	0.55
32:1a:648:G:H22	32:1a:725:G:H1	1.55	0.55
32:1a:668:A:O2'	42:1k:39:PRO:O	2.21	0.55
32:1a:783:G:C2'	32:1a:784:G:H5'	2.37	0.55
32:1a:1079:C:H2'	32:1a:1080:C:C6	2.41	0.55
33:1b:10:LEU:HA	33:1b:48:MET:CE	2.36	0.55
33:1b:75:LYS:CA	33:1b:78:GLN:HB2	2.32	0.55
34:1c:174:PRO:O	34:1c:182:ILE:HD11	2.07	0.55
37:1f:2:ARG:O	37:1f:66:GLU:HA	2.06	0.55
45:1n:15:LYS:HG2	45:1n:16:PHE:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:1r:22:VAL:O	49:1r:25:THR:N	2.39	0.55
50:1s:62:ILE:HA	50:1s:66:MET:CE	2.32	0.55
51:1t:29:LYS:O	51:1t:33:ILE:HG13	2.06	0.55
52:1u:18:TYR:CD2	52:1u:24:ARG:CG	2.89	0.55
1:2A:358:C:O2'	1:2A:359:C:H5'	2.07	0.55
1:2A:550:A:O2'	1:2A:2064:C:O2	2.24	0.55
1:2A:675:G:C2'	1:2A:676:C:H5'	2.37	0.55
1:2A:855:G:H2'	1:2A:856:U:C6	2.42	0.55
1:2A:1090:A:H5"	1:2A:1091:A:OP1	2.07	0.55
1:2A:1241:G:N2	1:2A:1294:U:O2	2.40	0.55
1:2A:1927:G:O2'	1:2A:1928:G:H5'	2.07	0.55
1:2A:2180:G:H2'	1:2A:2181:G:C8	2.42	0.55
1:2A:2361:C:H2'	1:2A:2362:G:O4'	2.07	0.55
1:2A:2477:C:C2'	1:2A:2478:C:H5'	2.36	0.55
1:2A:2502:U:O2	1:2A:2580:G:H4'	2.07	0.55
1:2A:2742:C:O3'	4:2E:169:ASN:HB2	2.06	0.55
1:2A:2798:U:OP1	4:2E:69:LYS:HD2	2.07	0.55
3:2D:33:LEU:CD1	3:2D:103:ARG:HA	2.37	0.55
6:2G:3:LEU:O	6:2G:3:LEU:HD12	2.07	0.55
9:2N:121:LYS:HB3	9:2N:123:TYR:HE2	1.71	0.55
11:2P:48:PRO:O	30:28:57:ARG:NH2	2.40	0.55
22:20:68:GLU:O	22:20:80:HIS:N	2.40	0.55
32:2a:47:G:H2'	32:2a:362:C:H5	1.72	0.55
32:2a:587:U:O2'	32:2a:588:G:H5'	2.07	0.55
32:2a:725:G:H5'	46:2o:39:LEU:HD11	1.89	0.55
32:2a:984:A:O2'	32:2a:1019:G:N2	2.40	0.55
33:2b:97:TRP:HH2	33:2b:176:GLU:OE1	1.90	0.55
37:2f:50:TYR:CE2	49:2r:81:PHE:CE2	2.86	0.55
39:2h:20:TYR:HE2	39:2h:76:PRO:HD2	1.72	0.55
42:2k:17:GLY:HA3	42:2k:77:MET:CE	2.36	0.55
43:2l:66:VAL:HG21	43:2l:98:TYR:CD2	2.42	0.55
46:2o:14:GLU:O	46:2o:14:GLU:HG3	2.06	0.55
47:2p:8:ARG:HB3	47:2p:28:ARG:HH12	1.69	0.55
47:2p:10:GLY:N	47:2p:16:HIS:HB2	2.22	0.55
1:1A:63:C:H5'	19:1X:71:GLY:HA3	1.89	0.54
1:1A:310:C:O2'	1:1A:311:C:H5'	2.07	0.54
1:1A:892:C:H42	1:1A:975:G:H1	1.54	0.54
1:1A:1040:C:O2	9:1N:3:THR:OG1	2.21	0.54
1:1A:1309:G:O2'	59:1A:4124:HOH:O	2.05	0.54
1:1A:2082:G:H2'	1:1A:2512:C:O2'	2.06	0.54
3:1D:16:MET:HE2	3:1D:206:LEU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:64:ILE:CG2	5:1F:78:ILE:HG23	2.37	0.54
7:1H:159:GLU:HG2	7:1H:169:VAL:HG11	1.88	0.54
8:1I:99:GLU:O	8:1I:103:ARG:HG3	2.07	0.54
11:1P:57:THR:HB	59:1P:323:HOH:O	2.06	0.54
13:1R:52:ILE:O	13:1R:55:ALA:HB3	2.06	0.54
15:1T:55:ASN:N	15:1T:59:THR:HG22	2.21	0.54
25:13:43:ILE:O	25:13:47:VAL:HG23	2.07	0.54
26:14:61:ARG:HH21	50:1s:9:VAL:HG21	1.72	0.54
32:1a:28:G:H2'	32:1a:29:G:C8	2.42	0.54
32:1a:282:G:O2'	32:1a:283:U:H5'	2.06	0.54
32:1a:522:G:OP1	43:1l:113:ARG:HD2	2.08	0.54
32:1a:1010:G:H4'	32:1a:1012:G:O6	2.06	0.54
32:1a:1227:A:H2'	32:1a:1228:C:H6	1.70	0.54
32:1a:1359:U:P	38:1g:94:ARG:HH12	2.30	0.54
34:1c:138:VAL:HG12	34:1c:170:GLN:OE1	2.07	0.54
35:1d:104:VAL:CG1	35:1d:108:LEU:HD13	2.37	0.54
38:1g:103:TRP:CE2	38:1g:137:LYS:HG2	2.42	0.54
40:1i:111:ARG:HG3	45:1n:61:TRP:HE1	1.72	0.54
46:1o:39:LEU:O	46:1o:42:HIS:HB3	2.08	0.54
48:1q:54:GLY:O	48:1q:81:ARG:HB2	2.08	0.54
1:2A:396:G:H4'	1:2A:397:A:OP2	2.07	0.54
1:2A:852:C:HO2'	1:2A:2456:G:HO2'	1.56	0.54
1:2A:1132:G:C2'	1:2A:1133:A:H5'	2.37	0.54
1:2A:1184:C:OP2	9:2N:66:LYS:NZ	2.28	0.54
1:2A:1404:A:C2'	1:2A:1405:A:H5'	2.34	0.54
1:2A:1801:C:H41	55:2A:3551:MPD:H32	1.72	0.54
1:2A:1901:C:O2'	1:2A:1902:C:H5'	2.07	0.54
1:2A:2233:G:O2'	1:2A:2234:G:H5'	2.07	0.54
4:2E:170:LEU:HB3	4:2E:184:VAL:HG11	1.88	0.54
12:2Q:42:ILE:HD13	12:2Q:97:VAL:CG2	2.38	0.54
17:2V:3:ALA:O	17:2V:13:ARG:HA	2.07	0.54
26:24:46:GLN:HE21	26:24:48:ARG:HH22	1.54	0.54
32:2a:390:G:H2'	32:2a:391:C:H5'	1.89	0.54
32:2a:433:U:C2'	32:2a:434:G:H5'	2.38	0.54
32:2a:620:U:H5'	48:2q:2:PRO:HD3	1.89	0.54
32:2a:643:U:H2'	32:2a:644:G:O4'	2.07	0.54
32:2a:1324:C:O2'	32:2a:1325:G:H5'	2.07	0.54
33:2b:112:VAL:HG21	33:2b:152:PHE:HD2	1.72	0.54
35:2d:116:GLN:NE2	35:2d:157:LEU:HD11	2.22	0.54
37:2f:9:VAL:HG22	37:2f:60:PHE:CD1	2.41	0.54
44:2m:67:GLU:HG3	44:2m:68:GLY:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:2o:87:ILE:CG2	46:2o:88:ARG:H	2.13	0.54
47:2p:3:LYS:HG2	47:2p:24:ALA:HB2	1.89	0.54
1:1A:230:G:C8	30:18:5:LYS:HG2	2.41	0.54
1:1A:414:G:O2'	1:1A:415:G:N7	2.35	0.54
1:1A:712:G:O2'	1:1A:713:U:H5'	2.07	0.54
1:1A:983:G:C2'	1:1A:984:G:H5'	2.38	0.54
1:1A:1874:C:O2'	1:1A:1875:G:H5'	2.07	0.54
1:1A:2018:G:H5"	4:1E:117:MET:HE2	1.89	0.54
1:1A:2183:G:H3'	1:1A:2184:C:C6	2.43	0.54
1:1A:2207:G:C3'	1:1A:2208:G:H5"	2.36	0.54
6:1G:171:ALA:O	6:1G:175:LEU:HB2	2.07	0.54
7:1H:35:VAL:O	7:1H:37:VAL:HG23	2.07	0.54
16:1U:104:GLN:OE1	16:1U:104:GLN:N	2.27	0.54
20:1Y:92:ASN:N	20:1Y:93:GLY:CA	2.66	0.54
22:10:10:THR:HG22	22:10:11:ARG:N	2.22	0.54
32:1a:957:C:H42	45:1n:18:VAL:HB	1.71	0.54
38:1g:115:ARG:HB2	38:1g:118:VAL:HG23	1.89	0.54
40:1i:29:ASN:HD21	40:1i:65:VAL:H	1.55	0.54
41:1j:81:THR:O	41:1j:84:GLN:HG2	2.06	0.54
46:1o:8:LYS:O	46:1o:12:ILE:HG13	2.07	0.54
1:2A:294:C:O2'	1:2A:295:U:H5'	2.07	0.54
1:2A:380:A:H2'	1:2A:381:U:H6	1.72	0.54
1:2A:1156:A:O3'	1:2A:1157:G:H4'	2.07	0.54
1:2A:1176:G:OP1	9:2N:80:GLY:N	2.22	0.54
1:2A:1342:C:OP1	1:2A:2721:C:H4'	2.07	0.54
1:2A:1765:G:H8	1:2A:1769:A:H62	1.53	0.54
1:2A:1946:C:O2'	1:2A:1947:U:H5'	2.07	0.54
4:2E:4:ILE:HD12	4:2E:91:VAL:HG12	1.89	0.54
4:2E:6:GLY:O	4:2E:195:LEU:HD12	2.06	0.54
5:2F:20:LEU:HD13	5:2F:125:LEU:CD1	2.37	0.54
7:2H:90:LYS:HE3	7:2H:159:GLU:HG2	1.87	0.54
8:2I:100:ALA:O	8:2I:104:GLN:N	2.36	0.54
8:2I:123:LEU:CD1	8:2I:144:VAL:HG12	2.13	0.54
12:2Q:137:TYR:CD1	21:2Z:48:PHE:CE2	2.95	0.54
13:2R:2:ARG:HG2	13:2R:2:ARG:O	2.08	0.54
14:2S:47:THR:C	14:2S:48:LEU:HD12	2.32	0.54
15:2T:123:GLN:HA	15:2T:126:ALA:HB3	1.89	0.54
18:2W:105:VAL:HG12	18:2W:107:LEU:CD1	2.37	0.54
19:2X:26:TYR:HB3	19:2X:92:LEU:HD22	1.87	0.54
21:2Z:8:TYR:HA	21:2Z:62:PRO:CD	2.37	0.54
25:23:23:LEU:HD11	25:23:50:VAL:HG11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:26:35:GLU:HG2	28:26:50:ARG:CG	2.25	0.54
29:27:39:ARG:HB2	29:27:42:LEU:HD23	1.89	0.54
32:2a:278:A:H5"	32:2a:279:C:OP2	2.07	0.54
32:2a:309:A:H2'	32:2a:310:C:C6	2.42	0.54
32:2a:956:A:H1'	32:2a:1304:C:O2	2.07	0.54
32:2a:984:A:OP2	32:2a:1003:G:N2	2.40	0.54
32:2a:1186:A:OP1	45:2n:3:ARG:NH1	2.40	0.54
32:2a:1399:G:H2'	32:2a:1400:G:O4'	2.06	0.54
32:2a:1495:G:C5	32:2a:1496:MA6:H103	2.42	0.54
36:2e:102:ALA:HB2	36:2e:120:THR:OG1	2.06	0.54
37:2f:99:ALA:HB3	49:2r:29:PHE:CE1	2.42	0.54
46:2o:3:ILE:HA	46:2o:7:GLU:OE1	2.08	0.54
47:2p:4:ILE:HB	47:2p:66:PRO:HA	1.89	0.54
51:2t:42:GLN:O	51:2t:45:GLN:HB3	2.08	0.54
1:1A:594:A:H3'	1:1A:595:G:O4'	2.07	0.54
1:1A:758:G:H2'	1:1A:759:G:C5'	2.37	0.54
1:1A:1323:A:O3'	13:1R:34:ILE:HB	2.07	0.54
1:1A:1589:C:OP2	59:1A:4189:HOH:O	2.18	0.54
1:1A:1696:G:H1	1:1A:2028:C:H42	1.55	0.54
1:1A:1721:C:N3	4:1E:128:SER:OG	2.38	0.54
1:1A:1759:U:O2'	1:1A:1760:G:H5'	2.07	0.54
1:1A:1829:G:H8	3:1D:181:GLU:OE1	1.90	0.54
1:1A:2230:G:H2'	1:1A:2231:G:H8	1.71	0.54
1:1A:2741:G:O2'	1:1A:2742:C:H5'	2.07	0.54
4:1E:39:PRO:HA	4:1E:44:TYR:N	2.23	0.54
6:1G:35:GLU:O	6:1G:36:LYS:HB3	2.07	0.54
8:1I:61:ARG:C	8:1I:63:ALA:H	2.15	0.54
27:15:26:THR:HG23	27:15:26:THR:O	2.07	0.54
32:1a:474:C:O2'	32:1a:475:G:H5'	2.07	0.54
32:1a:721:A:O2'	32:1a:722:C:H5'	2.07	0.54
32:1a:1184:G:C2'	32:1a:1185:C:H5'	2.37	0.54
32:1a:1199:C:O2'	32:1a:1200:C:H5'	2.07	0.54
32:1a:1308:C:OP1	52:1u:17:THR:OG1	2.18	0.54
35:1d:194:LEU:HB3	35:1d:196:LEU:HD11	1.89	0.54
37:1f:55:ASP:OD1	37:1f:56:PRO:HD2	2.06	0.54
46:1o:75:PRO:O	46:1o:78:TYR:N	2.39	0.54
1:2A:137:G:N3	1:2A:139:A:N6	2.54	0.54
1:2A:166:G:O2'	1:2A:167:G:H5'	2.06	0.54
1:2A:441:A:O2'	1:2A:442:C:H5'	2.07	0.54
1:2A:515:G:O6	18:2W:49:LYS:NZ	2.30	0.54
1:2A:757:G:O2'	1:2A:758:G:H5'	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1316:G:N2	1:2A:1662:C:O4'	2.40	0.54
1:2A:1332:A:C8	13:2R:104:ARG:HD3	2.42	0.54
1:2A:1797:C:H2'	1:2A:1798:U:C5'	2.38	0.54
1:2A:1797:C:O2'	1:2A:1798:U:H5'	2.07	0.54
1:2A:1929:C:N4	1:2A:1943:G:H1	2.03	0.54
1:2A:2127:G:C5	1:2A:2128:C:H1'	2.42	0.54
1:2A:2812:G:H2'	1:2A:2813:C:O4'	2.07	0.54
6:2G:11:TYR:CA	6:2G:15:VAL:HB	2.24	0.54
7:2H:77:LYS:HD3	7:2H:81:GLU:OE1	2.07	0.54
9:2N:19:GLU:HG3	9:2N:59:LYS:HB3	1.89	0.54
10:2O:3:GLN:HB2	10:2O:4:PRO:CD	2.38	0.54
11:2P:5:ASP:HA	11:2P:7:ARG:HH22	1.71	0.54
11:2P:52:GLU:OE2	11:2P:58:THR:OG1	2.15	0.54
21:2Z:4:ARG:HA	21:2Z:58:VAL:O	2.06	0.54
32:2a:79:G:H22	32:2a:86:U:H1'	1.72	0.54
32:2a:720:C:O2'	32:2a:721:A:H5'	2.08	0.54
32:2a:759:G:O2'	32:2a:760:G:H5'	2.07	0.54
32:2a:1232:A:O3'	40:2i:67:GLY:HA2	2.08	0.54
32:2a:1477:A:H2'	32:2a:1478:A:O4'	2.07	0.54
32:2a:1482:G:OP1	32:2a:1485:A:H4'	2.07	0.54
33:2b:67:THR:O	33:2b:68:ILE:HG13	2.06	0.54
34:2c:108:ASN:ND2	34:2c:144:SER:HB3	2.17	0.54
34:2c:153:VAL:O	34:2c:165:THR:HA	2.06	0.54
37:2f:44:GLY:O	37:2f:60:PHE:N	2.38	0.54
39:2h:30:ARG:O	39:2h:33:GLU:N	2.40	0.54
43:2l:83:VAL:HG23	43:2l:107:ALA:HB2	1.88	0.54
51:2t:51:GLU:O	51:2t:55:ILE:HG12	2.07	0.54
51:2t:73:HIS:HB3	51:2t:76:ALA:HB2	1.88	0.54
1:1A:108:A:O2'	1:1A:109:U:H5'	2.07	0.54
1:1A:326:U:H2'	1:1A:327:G:H8	1.71	0.54
1:1A:1031:C:C2'	1:1A:1032:G:H5'	2.37	0.54
1:1A:1339:U:H3'	59:1A:4256:HOH:O	2.07	0.54
1:1A:2075:A:H5'	1:1A:2076:C:O5'	2.06	0.54
1:1A:2099:C:C1'	1:1A:2445:A:H1'	2.37	0.54
1:1A:2261:G:C8	1:1A:2507:C:H5"	2.42	0.54
3:1D:51:VAL:HG11	3:1D:54:ARG:NE	2.21	0.54
9:1N:112:LEU:O	9:1N:115:ARG:HG3	2.08	0.54
11:1P:63:PRO:HB2	30:18:30:ARG:HH21	1.73	0.54
14:1S:3:ARG:HH12	14:1S:9:ARG:HH12	1.56	0.54
14:1S:78:LEU:HD23	14:1S:82:ILE:O	2.07	0.54
19:1X:60:ARG:NH1	29:17:47:ARG:HH22	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:62:ARG:HG3	26:14:62:ARG:O	2.07	0.54
32:1a:98:G:OP2	51:1t:18:GLN:HG2	2.07	0.54
32:1a:402:G:N2	32:1a:433:U:O2	2.40	0.54
32:1a:445:G:H1	32:1a:468:C:H42	1.55	0.54
32:1a:798:A:N6	32:1a:800:A:N3	2.55	0.54
34:1c:32:LEU:HD22	34:1c:59:ARG:HD3	1.88	0.54
40:1i:28:VAL:HG22	40:1i:63:ILE:HD12	1.90	0.54
40:1i:114:TYR:HE2	41:1j:60:ARG:N	1.99	0.54
42:1k:85:ARG:HD3	42:1k:113:PRO:HD3	1.90	0.54
44:1m:13:LYS:HA	44:1m:44:ARG:NH1	2.22	0.54
49:1r:29:PHE:O	49:1r:29:PHE:CD1	2.59	0.54
49:1r:43:PHE:HD2	49:1r:66:LEU:HD21	1.73	0.54
50:1s:36:ARG:NH1	50:1s:52:TYR:O	2.38	0.54
51:1t:14:LYS:HA	51:1t:17:ARG:NH2	2.22	0.54
1:2A:243:A:H1'	1:2A:410:U:H6	1.73	0.54
1:2A:1039:C:H5"	1:2A:1040:C:P	2.48	0.54
1:2A:1049:C:H42	1:2A:1196:G:H1	1.54	0.54
1:2A:1294:U:O2'	1:2A:1295:G:O5'	2.24	0.54
1:2A:1701:A:H4'	4:2E:114:ALA:HA	1.90	0.54
1:2A:2330:G:N1	14:2S:3:ARG:HA	2.22	0.54
1:2A:2717:G:O6	59:2A:3857:HOH:O	2.15	0.54
1:2A:2749:G:H1	1:2A:2779:C:H42	1.55	0.54
1:2A:2898:C:H2'	1:2A:2899:G:O4'	2.08	0.54
2:2B:28:C:H2'	2:2B:29:A:H8	1.72	0.54
3:2D:106:ILE:O	3:2D:108:PRO:HD3	2.05	0.54
5:2F:70:THR:OG1	59:2F:403:HOH:O	2.19	0.54
6:2G:106:LEU:HA	6:2G:110:ALA:HB3	1.89	0.54
8:2I:13:GLY:HA3	8:2I:17:GLN:OE1	2.06	0.54
9:2N:22:THR:HG21	9:2N:25:ARG:HD2	1.89	0.54
11:2P:100:LEU:CD1	11:2P:112:LEU:HD11	2.37	0.54
12:2Q:108:GLY:HA3	21:2Z:116:VAL:CG1	2.37	0.54
12:2Q:137:TYR:N	12:2Q:137:TYR:CD1	2.75	0.54
22:20:51:VAL:HG21	22:20:79:VAL:O	2.07	0.54
29:27:26:GLY:O	29:27:30:VAL:HG23	2.07	0.54
32:2a:658:G:H4'	49:2r:81:PHE:HE2	1.71	0.54
32:2a:725:G:H2'	32:2a:726:G:O4'	2.07	0.54
32:2a:772:U:H2'	32:2a:773:U:O4'	2.07	0.54
32:2a:1142:U:H4'	32:2a:1143:G:OP1	2.08	0.54
32:2a:1147:G:N1	32:2a:1154:C:N4	2.31	0.54
32:2a:1436:G:O2'	32:2a:1437:C:H5'	2.06	0.54
33:2b:37:ASN:O	33:2b:39:ILE:HG13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:155:LEU:CD2	33:2b:159:PRO:HG3	2.37	0.54
33:2b:189:ASP:H	33:2b:205:ASP:CB	2.21	0.54
38:2g:113:GLU:OE1	38:2g:113:GLU:N	2.26	0.54
44:2m:108:ARG:CZ	44:2m:114:ARG:HA	2.36	0.54
1:1A:78:G:O2'	1:1A:79:G:H5'	2.08	0.54
1:1A:273:U:O2'	1:1A:274:C:H5"	2.07	0.54
1:1A:353:A:H2	1:1A:1254:A:HO2'	1.50	0.54
1:1A:491:A:OP1	29:17:34:ARG:NH2	2.40	0.54
1:1A:1210:U:H2'	1:1A:1211:C:H6	1.71	0.54
1:1A:1404:A:H2'	1:1A:1405:A:H5'	1.90	0.54
1:1A:1652:C:H4'	1:1A:1653:A:O5'	2.08	0.54
1:1A:2009:C:O2'	1:1A:2010:G:H5'	2.08	0.54
1:1A:2889:C:O2	13:1R:93:GLY:HA3	2.06	0.54
6:1G:33:ARG:HB2	6:1G:162:THR:CG2	2.38	0.54
7:1H:54:ARG:NH2	7:1H:57:ASP:OD1	2.41	0.54
21:1Z:29:TYR:HE1	21:1Z:87:ASP:HB3	1.71	0.54
30:18:26:LYS:HG2	30:18:44:LYS:HA	1.90	0.54
32:1a:62:G:OP2	51:1t:10:LEU:HD22	2.07	0.54
32:1a:181:C:H2'	32:1a:182:C:C6	2.42	0.54
32:1a:658:G:P	37:1f:87:ARG:HH22	2.31	0.54
32:1a:1011:C:H2'	32:1a:1011:C:O2	2.07	0.54
33:1b:84:GLU:CD	33:1b:216:SER:HA	2.32	0.54
35:1d:100:ARG:NH2	35:1d:136:PRO:O	2.41	0.54
35:1d:111:ALA:HB1	35:1d:116:GLN:HB3	1.90	0.54
37:1f:11:ASN:OD1	37:1f:12:PRO:HD2	2.07	0.54
37:1f:39:LYS:O	37:1f:40:VAL:HB	2.07	0.54
38:1g:46:ALA:N	38:1g:117:ALA:HB1	2.22	0.54
38:1g:106:GLN:O	38:1g:110:GLN:HG2	2.06	0.54
39:1h:72:PRO:O	39:1h:74:PRO:HD3	2.07	0.54
39:1h:112:LEU:CD2	39:1h:133:LEU:HA	2.38	0.54
43:1l:114:LYS:HE3	43:1l:125:PRO:HG2	1.90	0.54
1:2A:1019:C:H4'	1:2A:1020:G:C5'	2.37	0.54
1:2A:1079:G:H5'	31:29:18:ARG:HD2	1.88	0.54
1:2A:1095:A:H2'	1:2A:1096:G:C8	2.43	0.54
1:2A:1334:C:O2'	1:2A:1335:C:H5'	2.07	0.54
1:2A:1413:G:H5'	29:27:25:PRO:CG	2.38	0.54
1:2A:1840:A:C2'	1:2A:1841:G:H5'	2.38	0.54
1:2A:2304:C:H2'	1:2A:2305:C:H6	1.72	0.54
1:2A:2777:A:H2	1:2A:2778:G:O4'	1.90	0.54
1:2A:2792:G:P	9:2N:118:LYS:HE2	2.48	0.54
1:2A:2825:C:H4'	13:2R:99:LYS:HZ1	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2876:G:O6	15:2T:23:ARG:HD2	2.07	0.54
2:2B:44:G:P	26:24:1:MET:H1	2.31	0.54
4:2E:14:ILE:HD11	4:2E:173:VAL:CG1	2.38	0.54
6:2G:7:LEU:HD22	6:2G:100:TRP:HE3	1.72	0.54
6:2G:55:LYS:HD3	6:2G:55:LYS:C	2.33	0.54
8:2I:110:ASP:N	8:2I:130:TYR:OH	2.26	0.54
10:2O:34:THR:HG22	10:2O:37:ASP:OD2	2.08	0.54
11:2P:59:LEU:HD11	30:28:10:ALA:HB2	1.90	0.54
13:2R:79:LEU:HD22	13:2R:80:PHE:HD1	1.72	0.54
15:2T:124:ASP:O	15:2T:127:ALA:N	2.41	0.54
16:2U:76:TYR:O	16:2U:79:PHE:HB3	2.08	0.54
18:2W:1:MET:HE2	18:2W:62:HIS:ND1	2.23	0.54
32:2a:17:A:C2'	32:2a:18:U:H5'	2.37	0.54
32:2a:1110:G:H2'	32:2a:1111:C:H6	1.73	0.54
36:2e:144:THR:H	36:2e:147:ASP:CB	2.16	0.54
37:2f:29:ALA:O	37:2f:33:TYR:N	2.39	0.54
38:2g:62:PHE:O	38:2g:66:VAL:HG23	2.08	0.54
41:2j:71:LEU:HD23	41:2j:72:VAL:N	2.22	0.54
46:2o:21:ASP:OD1	46:2o:22:THR:N	2.41	0.54
50:2s:16:LEU:HD23	50:2s:20:LEU:HD12	1.89	0.54
51:2t:29:LYS:HD2	51:2t:71:THR:HG21	1.90	0.54
1:1A:732:G:H1	29:17:16:HIS:CD2	2.25	0.54
1:1A:830:A:C6	3:1D:229:VAL:HG21	2.43	0.54
1:1A:1150:U:H2'	1:1A:1151:G:N7	2.23	0.54
1:1A:2210:U:C2'	1:1A:2211:G:H5'	2.35	0.54
1:1A:2496:G:O2'	1:1A:2497:G:H5'	2.08	0.54
3:1D:133:LEU:HD12	3:1D:186:HIS:O	2.06	0.54
4:1E:175:VAL:HG12	4:1E:182:LEU:HD12	1.88	0.54
10:1O:7:TYR:CE1	10:1O:20:MET:HB2	2.43	0.54
12:1Q:39:PRO:HA	12:1Q:97:VAL:O	2.08	0.54
18:1W:66:GLU:HA	18:1W:69:LEU:HD12	1.89	0.54
21:1Z:101:PRO:O	21:1Z:102:LEU:HD12	2.08	0.54
25:13:31:LEU:C	25:13:33:GLN:H	2.16	0.54
32:1a:246:A:H4'	32:1a:247:G:O5'	2.08	0.54
32:1a:371:U:H2'	32:1a:372:G:C8	2.43	0.54
32:1a:598:A:H2'	32:1a:599:C:O4'	2.08	0.54
32:1a:937:A:H2'	32:1a:938:U:C5'	2.38	0.54
32:1a:1372:C:O2'	32:1a:1373:U:H5'	2.07	0.54
34:1c:82:GLU:O	34:1c:86:VAL:N	2.36	0.54
35:1d:18:LYS:HB3	35:1d:20:TYR:CE1	2.37	0.54
35:1d:165:MET:HA	35:1d:168:ARG:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1d:199:ASN:ND2	35:1d:202:LEU:HD23	2.22	0.54
38:1g:17:VAL:HG12	38:1g:18:TYR:HD1	1.71	0.54
40:1i:49:PRO:CG	40:1i:81:ILE:HD11	2.37	0.54
43:1l:89:ARG:HD3	43:1l:91:LYS:H	1.73	0.54
44:1m:4:ILE:CD1	44:1m:9:ILE:HG23	2.32	0.54
44:1m:45:VAL:HA	44:1m:48:LEU:CG	2.38	0.54
50:1s:36:ARG:HB3	50:1s:72:GLY:CA	2.38	0.54
1:2A:229:A:H5'	1:2A:231:U:O4'	2.07	0.54
1:2A:574:G:O2'	1:2A:575:G:H5'	2.07	0.54
1:2A:829:A:H1'	1:2A:1809:U:C1'	2.38	0.54
1:2A:1008:C:O2'	1:2A:2284:A:N3	2.29	0.54
1:2A:1035:A:N6	1:2A:1230:G:H1'	2.21	0.54
1:2A:1204:U:C2'	1:2A:1205:G:H5'	2.38	0.54
1:2A:1636:G:H2'	1:2A:1637:C:C6	2.42	0.54
1:2A:1712:G:OP1	10:2O:66:LYS:HD2	2.07	0.54
1:2A:1771:C:H2'	1:2A:1772:C:H5'	1.89	0.54
1:2A:1833:A:HO2'	3:2D:259:THR:HG21	1.72	0.54
1:2A:2354:C:O2'	1:2A:2384:G:O2'	2.24	0.54
1:2A:2686:A:O2'	1:2A:2687:C:H5'	2.08	0.54
2:2B:57:A:N3	6:2G:29:TRP:HB3	2.23	0.54
3:2D:139:GLY:O	3:2D:164:GLN:HG3	2.07	0.54
3:2D:148:GLU:OE1	3:2D:151:LYS:NZ	2.40	0.54
4:2E:192:ASN:HB3	15:2T:3:ARG:NH2	2.22	0.54
7:2H:101:ARG:HG2	7:2H:117:PRO:HG2	1.89	0.54
12:2Q:38:GLU:OE2	12:2Q:127:ILE:HA	2.08	0.54
17:2V:72:VAL:HG13	17:2V:72:VAL:O	2.07	0.54
20:2Y:13:VAL:HB	20:2Y:72:VAL:CG1	2.37	0.54
21:2Z:108:PRO:HD3	21:2Z:141:VAL:CG2	2.37	0.54
25:23:6:VAL:O	25:23:34:GLU:HA	2.08	0.54
32:2a:419:G:H2'	32:2a:420:G:H5'	1.90	0.54
32:2a:677:G:H1'	38:2g:82:GLY:HA3	1.89	0.54
32:2a:735:U:H2'	32:2a:736:G:H5'	1.89	0.54
32:2a:1027:A:N6	32:2a:1028:C:O2	2.41	0.54
32:2a:1312:U:H2'	32:2a:1313:G:H5'	1.89	0.54
32:2a:1385:4OC:HM22	32:2a:1385:4OC:O3'	2.08	0.54
33:2b:78:GLN:O	33:2b:94:ASN:ND2	2.41	0.54
39:2h:101:PRO:O	39:2h:125:ARG:NH1	2.41	0.54
43:2l:59:ARG:C	43:2l:60:LEU:HD12	2.32	0.54
46:2o:62:GLN:HE21	46:2o:66:LEU:CD1	2.21	0.54
48:2q:26:GLN:O	48:2q:27:PHE:HB3	2.07	0.54
1:1A:338:G:O2'	1:1A:339:C:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:614:G:O2'	1:1A:615:G:H5'	2.07	0.54
1:1A:773:A:N3	3:1D:9:TYR:HE2	2.06	0.54
1:1A:775:G:H1'	1:1A:809:G:O3'	2.07	0.54
1:1A:1096:G:C2	1:1A:1097:C:H1'	2.43	0.54
1:1A:1138:G:H1'	1:1A:1144:G:H1	1.73	0.54
1:1A:1323:A:H5"	13:1R:36:THR:HG22	1.89	0.54
1:1A:1669:G:O2'	1:1A:1670:C:H5'	2.07	0.54
1:1A:2583:A:OP1	1:1A:2585:G:O2'	2.24	0.54
1:1A:2678:C:N3	7:1H:110:SER:OG	2.36	0.54
1:1A:2891:A:OP1	13:1R:96:ARG:HD3	2.07	0.54
10:1O:100:GLY:O	10:1O:119:PRO:HD2	2.07	0.54
11:1P:95:VAL:CG2	11:1P:125:VAL:HA	2.38	0.54
12:1Q:29:PHE:N	12:1Q:29:PHE:CD1	2.75	0.54
13:1R:70:LEU:O	13:1R:72:ASP:N	2.38	0.54
32:1a:268:C:O2'	32:1a:269:A:H5'	2.07	0.54
32:1a:311:A:OP1	59:1a:2059:HOH:O	2.18	0.54
32:1a:317:A:H2'	32:1a:318:C:H6	1.72	0.54
32:1a:743:A:H3'	32:1a:744:G:H5"	1.89	0.54
32:1a:954:G:OP1	45:1n:32:SER:N	2.26	0.54
32:1a:1378:C:C4'	32:1a:1384:G:H21	2.19	0.54
36:1e:99:GLY:O	36:1e:101:ILE:HG12	2.07	0.54
37:1f:7:ASN:HB2	37:1f:89:MET:O	2.08	0.54
39:1h:85:ARG:HD2	39:1h:134:ILE:O	2.08	0.54
44:1m:66:LEU:C	44:1m:70:LEU:HB2	2.33	0.54
48:1q:44:ALA:HA	48:1q:71:PHE:O	2.07	0.54
1:2A:586:C:O2'	1:2A:587:C:H5'	2.07	0.54
1:2A:900:G:H2'	1:2A:901:G:C8	2.43	0.54
1:2A:1003:A:O2'	1:2A:1004:A:H5'	2.08	0.54
1:2A:1310:A:H4'	1:2A:1311:G:OP1	2.07	0.54
1:2A:1453:C:O2'	1:2A:1454:C:H5'	2.08	0.54
1:2A:2045:G:O2'	1:2A:2046:C:H5'	2.08	0.54
1:2A:2539:U:H2'	1:2A:2541:A:O5'	2.08	0.54
1:2A:2742:C:H4'	4:2E:169:ASN:O	2.08	0.54
1:2A:2760:A:H2'	1:2A:2761:A:H8	1.71	0.54
5:2F:117:ARG:NH2	5:2F:187:VAL:O	2.40	0.54
6:2G:15:VAL:O	6:2G:175:LEU:HD21	2.08	0.54
6:2G:15:VAL:HG11	6:2G:172:LEU:HD12	1.89	0.54
32:2a:297:G:H2'	32:2a:298:G:C8	2.42	0.54
32:2a:941:G:H1	32:2a:950:C:H42	1.55	0.54
32:2a:1106:A:O3'	41:2j:36:GLY:HA3	2.08	0.54
32:2a:1222:U:C4	38:2g:30:ILE:HG23	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1226:C:N3	32:2a:1275:G:O6	2.41	0.54
32:2a:1305:G:H5"	32:2a:1345:C:C2	2.42	0.54
33:2b:95:GLN:HG2	33:2b:148:TYR:CD1	2.42	0.54
43:2l:28:LYS:HG2	43:2l:28:LYS:O	2.08	0.54
44:2m:108:ARG:HD2	44:2m:112:GLY:O	2.08	0.54
1:1A:33:C:O2'	1:1A:34:G:O5'	2.19	0.54
1:1A:87:G:N2	1:1A:481:C:H41	2.05	0.54
1:1A:91:C:H2'	1:1A:92:G:H5'	1.90	0.54
1:1A:344:G:H4'	5:1F:165:ARG:O	2.08	0.54
1:1A:365:G:H2'	1:1A:366:C:H5'	1.90	0.54
1:1A:909:A:N6	59:1A:4461:HOH:O	2.29	0.54
1:1A:997:A:OP1	12:1Q:18:LYS:NZ	2.36	0.54
1:1A:1017:A:H5'	1:1A:1232:U:H1'	1.89	0.54
1:1A:1093:A:OP2	1:1A:1154:C:N4	2.41	0.54
1:1A:1214:G:H1	1:1A:1224:C:H42	1.56	0.54
1:1A:1322:G:H5"	13:1R:40:LYS:HZ2	1.71	0.54
1:1A:1355:G:H2'	1:1A:1356:G:C5'	2.38	0.54
1:1A:1430:G:H4'	1:1A:1431:C:OP1	2.08	0.54
1:1A:2083:A:C2'	1:1A:2084:C:H5'	2.34	0.54
19:1X:12:VAL:HG12	19:1X:17:ALA:HB2	1.90	0.54
22:10:51:VAL:CG2	22:10:81:VAL:HG23	2.38	0.54
28:16:19:ARG:NE	28:16:52:VAL:HG11	2.22	0.54
32:1a:351:C:H1'	32:1a:384:G:N3	2.22	0.54
32:1a:529:C:H5'	35:1d:72:GLU:CB	2.32	0.54
32:1a:643:U:O2'	32:1a:644:G:H5'	2.08	0.54
32:1a:783:G:H2'	32:1a:784:G:H5'	1.90	0.54
32:1a:928:U:H2'	32:1a:929:G:C8	2.43	0.54
36:1e:79:GLU:HB3	36:1e:93:PRO:HD3	1.90	0.54
36:1e:139:LEU:HD23	36:1e:142:LEU:HD11	1.90	0.54
38:1g:27:ILE:HD13	38:1g:30:ILE:HD12	1.89	0.54
38:1g:90:GLU:HG2	38:1g:90:GLU:O	2.08	0.54
39:1h:81:HIS:N	39:1h:138:TRP:O	2.41	0.54
40:1i:111:ARG:HG3	45:1n:61:TRP:NE1	2.23	0.54
48:1q:49:GLU:O	48:1q:49:GLU:HG3	2.07	0.54
1:2A:559:C:H2'	1:2A:560:A:H8	1.73	0.54
1:2A:574:G:H2'	1:2A:575:G:H8	1.72	0.54
1:2A:936:A:H2'	1:2A:937:G:H5'	1.89	0.54
1:2A:979:C:C2'	1:2A:980:C:H5'	2.38	0.54
1:2A:1012:G:H2'	1:2A:1013:U:O4'	2.08	0.54
1:2A:1304:G:H2'	1:2A:1305:G:H8	1.72	0.54
1:2A:2801:C:H42	1:2A:2902:G:H1	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:3:C:H2'	2:2B:4:C:C6	2.43	0.54
5:2F:51:THR:HB	5:2F:88:VAL:HG11	1.89	0.54
6:2G:28:VAL:HG23	6:2G:29:TRP:N	2.23	0.54
6:2G:63:ILE:HG12	6:2G:141:PHE:HD2	1.71	0.54
6:2G:103:LEU:CA	6:2G:106:LEU:HB3	2.36	0.54
13:2R:29:LEU:CD2	13:2R:79:LEU:HD12	2.36	0.54
13:2R:104:ARG:HD2	13:2R:107:ASP:OD1	2.08	0.54
32:2a:179:G:N2	32:2a:201:C:O2	2.40	0.54
32:2a:610:U:O2'	32:2a:611:G:H5'	2.08	0.54
32:2a:944:M2G:HM22	32:2a:945:5MC:O2	2.08	0.54
32:2a:1006:C:O2	32:2a:1017:G:N1	2.39	0.54
32:2a:1107:G:N2	32:2a:1108:U:O4	2.37	0.54
32:2a:1110:G:H1'	32:2a:1262:A:C6	2.43	0.54
32:2a:1133:U:H2'	32:2a:1134:A:C5'	2.34	0.54
32:2a:1232:A:H4'	40:2i:68:GLY:O	2.07	0.54
32:2a:1341:C:O2'	32:2a:1343:G:N7	2.40	0.54
32:2a:1398:G:O2'	32:2a:1399:G:H5'	2.06	0.54
33:2b:75:LYS:CA	33:2b:78:GLN:HG2	2.38	0.54
33:2b:144:ARG:NH1	33:2b:148:TYR:OH	2.41	0.54
34:2c:26:LYS:HA	45:2n:36:PHE:CE1	2.41	0.54
37:2f:82:ARG:HB2	37:2f:85:VAL:HB	1.90	0.54
38:2g:103:TRP:CE2	38:2g:137:LYS:HG2	2.43	0.54
40:2i:110:GLU:OE1	40:2i:120:ARG:NE	2.41	0.54
1:1A:1712:G:H1	1:1A:2015:C:H42	1.56	0.54
1:1A:1784:C:H6	15:1T:96:ARG:NH1	2.06	0.54
1:1A:2135:A:O2'	1:1A:2188:U:H4'	2.08	0.54
1:1A:2201:U:H3'	1:1A:2202:G:C8	2.43	0.54
1:1A:2258:A:O2'	1:1A:2259:C:H5'	2.08	0.54
1:1A:2399:A:H2'	59:1A:4170:HOH:O	2.05	0.54
1:1A:2652:G:H4'	9:1N:76:SER:HB2	1.88	0.54
7:1H:3:ARG:NH1	7:1H:5:GLY:H	2.06	0.54
12:1Q:29:PHE:CB	12:1Q:65:PHE:CE2	2.90	0.54
18:1W:37:ARG:HG2	18:1W:38:TYR:HE1	1.66	0.54
21:1Z:30:ASN:OD1	21:1Z:32:HIS:N	2.29	0.54
21:1Z:58:VAL:HA	21:1Z:67:LEU:O	2.08	0.54
32:1a:441:G:C2'	32:1a:442:G:H5'	2.37	0.54
32:1a:475:G:O2'	32:1a:476:G:H5'	2.08	0.54
32:1a:701:C:H4'	42:1k:117:ASN:HD22	1.73	0.54
32:1a:1131:U:H2'	32:1a:1132:C:H5'	1.89	0.54
33:1b:16:HIS:HB2	33:1b:204:ASN:HB3	1.90	0.54
33:1b:48:MET:O	33:1b:52:GLU:N	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:187:LEU:HD12	33:1b:201:ILE:HG22	1.89	0.54
36:1e:8:GLU:OE2	36:1e:63:ARG:NH2	2.40	0.54
36:1e:13:ILE:HA	36:1e:29:GLY:O	2.08	0.54
40:1i:8:GLY:HA3	40:1i:76:ALA:O	2.08	0.54
43:1l:70:ILE:HG12	43:1l:100:ILE:HD12	1.89	0.54
44:1m:81:LEU:HD22	44:1m:86:CYS:SG	2.48	0.54
46:1o:63:ARG:NE	46:1o:87:ILE:HD11	2.23	0.54
50:1s:43:GLU:CA	50:1s:43:GLU:OE1	2.55	0.54
51:1t:66:ALA:HB1	51:1t:71:THR:CG2	2.38	0.54
1:2A:406:U:H5'	23:21:18:ILE:HD12	1.89	0.54
1:2A:668:A:H4'	1:2A:669:C:C5	2.41	0.54
1:2A:989:A:OP2	59:2A:3874:HOH:O	2.18	0.54
1:2A:1466:G:H3'	1:2A:1466:G:OP2	2.07	0.54
1:2A:1496:G:O2'	1:2A:1497:C:H5'	2.08	0.54
1:2A:1500:U:O4	13:2R:67:LEU:HD21	2.08	0.54
1:2A:1645:C:OP1	19:2X:58:HIS:NE2	2.26	0.54
1:2A:1684:C:O2	1:2A:2709:U:O2'	2.26	0.54
1:2A:2076:C:H5'	1:2A:2077:G:O5'	2.07	0.54
1:2A:2226:G:OP2	1:2A:2226:G:H4'	2.07	0.54
1:2A:2467:C:H42	1:2A:2506:G:H1	1.56	0.54
1:2A:2526:C:H42	1:2A:2580:G:H1	1.55	0.54
1:2A:2774:G:C2'	1:2A:2775:G:H5'	2.38	0.54
3:2D:75:ILE:HG21	3:2D:99:ASP:HB2	1.89	0.54
3:2D:133:LEU:HB2	3:2D:187:GLY:HA2	1.89	0.54
4:2E:59:VAL:HG12	4:2E:60:ASN:N	2.21	0.54
5:2F:195:ASP:OD1	5:2F:196:LEU:N	2.40	0.54
9:2N:31:ALA:O	9:2N:35:ARG:HG2	2.08	0.54
15:2T:92:GLY:O	15:2T:120:ARG:NH2	2.41	0.54
18:2W:20:VAL:CG1	18:2W:47:VAL:HG21	2.38	0.54
30:28:14:VAL:HG22	30:28:15:LYS:N	2.18	0.54
32:2a:372:G:H4'	47:2p:5:ARG:HD2	1.89	0.54
32:2a:608:C:H5'	47:2p:11:SER:HB3	1.89	0.54
32:2a:778:A:O2'	32:2a:1484:U:O4	2.24	0.54
32:2a:1029:A:C2'	32:2a:1030:G:H5'	2.36	0.54
32:2a:1457:C:H2'	32:2a:1458:G:C8	2.43	0.54
32:2a:1491:A:H2'	32:2a:1492:C:C6	2.43	0.54
33:2b:90:MET:HB3	33:2b:91:PRO:HD2	1.90	0.54
36:2e:33:VAL:HG22	36:2e:34:VAL:N	2.22	0.54
36:2e:35:GLY:HA2	36:2e:41:VAL:HG12	1.88	0.54
36:2e:110:LEU:HB3	36:2e:115:VAL:HB	1.89	0.54
39:2h:112:LEU:HB3	39:2h:133:LEU:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2i:73:GLN:O	40:2i:77:ILE:HG13	2.08	0.54
40:2i:122:ALA:HB1	40:2i:123:PRO:HD2	1.90	0.54
41:2j:38:ILE:O	41:2j:38:ILE:HG13	2.08	0.54
47:2p:5:ARG:HB3	47:2p:67:THR:CG2	2.37	0.54
1:1A:366:C:C2'	1:1A:367:G:H5'	2.37	0.54
1:1A:378:G:H2'	1:1A:379:G:H5'	1.88	0.54
1:1A:663:U:H2'	1:1A:664:C:C6	2.43	0.54
1:1A:1051:C:O2	9:1N:106:MET:HG2	2.07	0.54
1:1A:1220:G:N2	1:1A:1222:C:OP2	2.40	0.54
1:1A:1578:C:N4	1:1A:1583:G:H1	2.05	0.54
1:1A:2678:C:H1'	7:1H:109:PHE:CD1	2.43	0.54
1:1A:2689:C:H2'	1:1A:2690:A:O4'	2.07	0.54
1:1A:2723:U:H2'	1:1A:2726:G:H5"	1.90	0.54
59:1A:4108:HOH:O	18:1W:99:ARG:N	2.23	0.54
5:1F:170:LEU:HD23	5:1F:173:VAL:HG21	1.89	0.54
12:1Q:1:MET:SD	12:1Q:45:GLN:HG3	2.48	0.54
21:1Z:132:ASN:ND2	59:1Z:8103:HOH:O	2.30	0.54
24:12:70:GLN:HB2	59:12:103:HOH:O	2.06	0.54
32:1a:51:A:H1'	32:1a:53:G:C8	2.42	0.54
32:1a:139:G:H2'	32:1a:140:G:C8	2.42	0.54
32:1a:1040:G:H4'	34:1c:197:GLY:H	1.72	0.54
32:1a:1105:U:O4	32:1a:1134:A:N1	2.41	0.54
32:1a:1379:A:C2	36:1e:19:MET:HG3	2.42	0.54
32:1a:1486:G:O2'	32:1a:1487:C:H5'	2.08	0.54
34:1c:62:ASP:O	34:1c:97:LYS:HB2	2.07	0.54
35:1d:8:VAL:HG22	35:1d:21:LEU:HD12	1.90	0.54
35:1d:98:GLU:CD	35:1d:103:ASN:HD21	2.15	0.54
36:1e:32:VAL:O	36:1e:43:LEU:HD12	2.08	0.54
39:1h:64:LYS:C	39:1h:65:TYR:CD1	2.85	0.54
39:1h:64:LYS:C	39:1h:65:TYR:HD1	2.16	0.54
41:1j:6:ILE:CB	41:1j:72:VAL:HG23	2.38	0.54
41:1j:51:ARG:HG3	41:1j:60:ARG:C	2.33	0.54
46:1o:18:PHE:CD1	46:1o:21:ASP:HB2	2.43	0.54
47:1p:69:THR:O	47:1p:73:LEU:HD23	2.08	0.54
52:1u:3:LYS:HB3	52:1u:14:TRP:CD1	2.42	0.54
52:1u:17:THR:C	52:1u:18:TYR:HD1	2.16	0.54
1:2A:81:G:N2	1:2A:100:A:OP2	2.41	0.54
1:2A:745:A:H2'	1:2A:746:G:H5'	1.89	0.54
1:2A:1056:G:H4'	16:2U:75:ASN:HD22	1.73	0.54
1:2A:1109:C:H3'	1:2A:1110:U:H5'	1.89	0.54
1:2A:2793:A:H5"	1:2A:2794:G:H5'	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:120:GLY:O	3:2D:131:LEU:HG	2.06	0.54
4:2E:9:VAL:HG23	15:2T:3:ARG:CB	2.37	0.54
4:2E:30:PRO:O	4:2E:32:PRO:HD3	2.08	0.54
6:2G:3:LEU:HD12	6:2G:5:VAL:HG13	1.90	0.54
8:2I:124:GLY:N	8:2I:144:VAL:HB	2.17	0.54
9:2N:30:ILE:CG2	9:2N:34:LEU:HD13	2.38	0.54
12:2Q:118:LEU:HB2	12:2Q:131:ILE:HD13	1.90	0.54
26:24:58:ARG:NH2	50:2s:68:GLY:H	2.06	0.54
32:2a:199:U:H2'	32:2a:200:C:H6	1.73	0.54
32:2a:652:G:HO2'	46:2o:46:HIS:CG	2.23	0.54
33:2b:229:VAL:HG12	33:2b:230:VAL:H	1.71	0.54
35:2d:119:GLN:HG2	35:2d:123:HIS:CD2	2.43	0.54
35:2d:127:THR:O	35:2d:147:ALA:N	2.32	0.54
38:2g:116:ALA:O	38:2g:119:ARG:N	2.41	0.54
39:2h:6:ILE:HB	39:2h:85:ARG:NH1	2.23	0.54
44:2m:17:VAL:HG23	44:2m:18:ALA:N	2.23	0.54
1:1A:579:U:H2'	1:1A:580:G:H8	1.73	0.53
1:1A:751:A:C2	1:1A:773:A:H1'	2.44	0.53
1:1A:1013:U:OP1	25:13:17:LYS:N	2.42	0.53
1:1A:1234:G:O2'	1:1A:1235:G:H5'	2.08	0.53
1:1A:1730:C:O2'	1:1A:1731:C:H5'	2.07	0.53
1:1A:1812:C:O2	1:1A:2619:G:O2'	2.23	0.53
1:1A:1958:A:H1'	1:1A:1960:5MU:H72	1.89	0.53
3:1D:69:ARG:NH2	3:1D:128:GLY:O	2.40	0.53
15:1T:14:TYR:N	15:1T:14:TYR:CD1	2.75	0.53
18:1W:24:ILE:HG13	59:1W:3110:HOH:O	2.08	0.53
18:1W:71:VAL:HG21	59:1W:3110:HOH:O	2.08	0.53
19:1X:49:VAL:O	59:1X:201:HOH:O	2.18	0.53
32:1a:72:C:H42	32:1a:92:G:H1	1.56	0.53
32:1a:587:U:H2'	32:1a:588:G:C8	2.43	0.53
32:1a:910:C:H5"	38:1g:4:ARG:CZ	2.38	0.53
32:1a:927:A:O2'	32:1a:949:G:O6	2.17	0.53
32:1a:1099:C:N4	32:1a:1100:G:O6	2.41	0.53
32:1a:1208:C:H4'	50:1s:80:TYR:CZ	2.42	0.53
32:1a:1315:A:H5"	59:1a:2136:HOH:O	2.08	0.53
32:1a:1339:A:O2'	45:1n:34:TYR:HE1	1.91	0.53
36:1e:78:HIS:NE2	36:1e:142:LEU:HA	2.24	0.53
41:1j:26:ALA:HA	41:1j:29:ARG:NH2	2.22	0.53
41:1j:44:VAL:HG22	41:1j:66:ARG:HD2	1.88	0.53
43:1l:117:ARG:HH12	43:1l:124:LYS:CA	2.21	0.53
47:1p:70:ALA:O	47:1p:74:LEU:HD13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:82:A:OP2	20:2Y:8:LYS:NZ	2.31	0.53
1:2A:603:C:OP1	16:2U:33:ARG:HG3	2.08	0.53
1:2A:627:C:O2'	1:2A:628:U:H5'	2.07	0.53
1:2A:1024:G:H3'	1:2A:1025:A:C5'	2.38	0.53
1:2A:1385:U:H4'	1:2A:1439:U:O2'	2.08	0.53
1:2A:1513:C:H42	1:2A:1570:G:H1	1.56	0.53
1:2A:2145:G:O6	1:2A:2195:C:N3	2.41	0.53
1:2A:2265:C:H2'	1:2A:2266:G:H5'	1.89	0.53
1:2A:2547:G:O2'	1:2A:2548:U:H5'	2.09	0.53
1:2A:2864:C:O2'	1:2A:2865:C:H5'	2.07	0.53
4:2E:143:ASN:O	4:2E:144:ARG:HB2	2.07	0.53
6:2G:173:LEU:HD22	6:2G:178:PHE:CE2	2.43	0.53
7:2H:94:TYR:CE2	7:2H:160:LYS:HG2	2.43	0.53
8:2I:127:VAL:O	8:2I:127:VAL:HG13	2.07	0.53
11:2P:97:PRO:HB3	11:2P:106:LEU:CD2	2.39	0.53
17:2V:24:LYS:HA	17:2V:92:THR:OG1	2.08	0.53
18:2W:6:ILE:HG12	18:2W:104:THR:CG2	2.39	0.53
18:2W:38:TYR:CE1	27:25:41:PRO:HD3	2.43	0.53
18:2W:64:MET:HA	18:2W:109:GLU:OE2	2.08	0.53
21:2Z:86:VAL:HG11	21:2Z:88:PHE:CE1	2.43	0.53
22:20:37:LEU:HB2	22:20:59:LEU:O	2.09	0.53
26:24:59:PHE:CZ	50:2s:42:PRO:HA	2.41	0.53
29:27:22:MET:HA	29:27:28:ARG:HG2	1.90	0.53
32:2a:45:G:H1'	32:2a:395:G:H22	1.73	0.53
32:2a:170:C:O2'	32:2a:171:C:H5'	2.08	0.53
32:2a:181:C:O2'	32:2a:182:C:H5'	2.08	0.53
32:2a:683:C:C2'	32:2a:684:G:H5'	2.38	0.53
32:2a:957:C:O2	45:2n:19:ARG:HG2	2.08	0.53
32:2a:1010:G:H2'	32:2a:1011:C:H5"	1.90	0.53
33:2b:93:VAL:HG21	33:2b:97:TRP:HD1	1.69	0.53
38:2g:108:ALA:CB	38:2g:120:ILE:HD13	2.38	0.53
39:2h:10:LEU:HD22	39:2h:83:ILE:HD11	1.91	0.53
39:2h:46:LYS:HG3	39:2h:64:LYS:HB2	1.90	0.53
44:2m:32:GLU:HA	44:2m:35:GLU:HG2	1.90	0.53
46:2o:62:GLN:HG3	46:2o:66:LEU:CD1	2.37	0.53
49:2r:47:THR:HG23	49:2r:49:LYS:H	1.73	0.53
1:1A:1024:G:H3'	1:1A:1025:A:H5"	1.89	0.53
1:1A:1673:G:O6	59:1A:4329:HOH:O	2.16	0.53
1:1A:2317:C:OP2	1:1A:2318:G:O2'	2.22	0.53
1:1A:2417:U:N3	11:1P:73:GLY:O	2.38	0.53
1:1A:2659:C:C2'	1:1A:2660:U:H5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:175:VAL:O	4:1E:177:PRO:HD3	2.07	0.53
5:1F:31:HIS:O	5:1F:34:TRP:HB3	2.08	0.53
6:1G:101:ILE:O	6:1G:105:LYS:N	2.40	0.53
59:1N:329:HOH:O	16:1U:60:LEU:HD22	2.06	0.53
12:1Q:4:PRO:HD2	12:1Q:93:TYR:HE2	1.72	0.53
12:1Q:29:PHE:HB2	12:1Q:65:PHE:CE2	2.43	0.53
20:1Y:35:TYR:CZ	20:1Y:69:ALA:HB3	2.43	0.53
26:14:29:PRO:O	26:14:30:GLU:HG3	2.08	0.53
26:14:59:PHE:HB2	50:1s:64:GLU:HA	1.91	0.53
32:1a:60:A:H61	32:1a:327:G:H1'	1.73	0.53
32:1a:431:C:H2'	32:1a:432:C:H6	1.73	0.53
32:1a:564:U:H2'	32:1a:565:G:C8	2.43	0.53
32:1a:840:C:C2'	32:1a:841:U:H5'	2.38	0.53
32:1a:886:A:O2'	32:1a:887:A:H5'	2.08	0.53
32:1a:1038:A:H2'	34:1c:156:ARG:HD2	1.90	0.53
32:1a:1359:U:OP2	38:1g:94:ARG:NH2	2.41	0.53
33:1b:103:THR:HG23	33:1b:176:GLU:CG	2.38	0.53
34:1c:163:ALA:O	34:1c:164:ARG:HB2	2.08	0.53
35:1d:102:ASP:OD1	35:1d:103:ASN:N	2.37	0.53
37:1f:96:PRO:HB3	49:1r:30:ASP:OD2	2.09	0.53
38:1g:108:ALA:HB1	38:1g:120:ILE:HD13	1.90	0.53
39:1h:10:LEU:HD22	39:1h:83:ILE:HD11	1.90	0.53
39:1h:65:TYR:CD1	39:1h:65:TYR:N	2.76	0.53
44:1m:45:VAL:HA	44:1m:48:LEU:CD1	2.38	0.53
44:1m:53:VAL:O	44:1m:57:ARG:N	2.41	0.53
1:2A:262:C:O2'	1:2A:263:G:H5'	2.08	0.53
1:2A:407:G:C2'	1:2A:408:G:H5'	2.38	0.53
1:2A:864:G:H4'	1:2A:884:C:O3'	2.08	0.53
1:2A:872:U:OP1	1:2A:2439:G:H3'	2.08	0.53
1:2A:955:A:H2	1:2A:2275:C:O2	1.90	0.53
1:2A:997:A:O2'	1:2A:998:G:H5'	2.08	0.53
1:2A:1142:U:O2'	1:2A:1143:A:H5'	2.08	0.53
1:2A:1295:G:H5"	59:2A:3954:HOH:O	2.08	0.53
1:2A:2125:G:N7	1:2A:2207:G:C2	2.76	0.53
1:2A:2135:A:H2'	1:2A:2136:G:O4'	2.07	0.53
2:2B:28:C:H2'	2:2B:29:A:C8	2.42	0.53
14:2S:35:ILE:O	14:2S:35:ILE:HG23	2.07	0.53
18:2W:38:TYR:CZ	27:25:41:PRO:HD3	2.44	0.53
18:2W:86:LEU:CD2	18:2W:96:ILE:HD11	2.26	0.53
19:2X:87:GLN:O	19:2X:88:LYS:HB2	2.07	0.53
23:21:60:PHE:HA	23:21:91:LYS:HZ3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:218:U:H2'	32:2a:219:U:H6	1.73	0.53
32:2a:521:G:O2'	32:2a:522:G:H5'	2.09	0.53
32:2a:836:G:O6	32:2a:847:G:H3'	2.08	0.53
32:2a:1148:C:C2'	32:2a:1149:G:H5'	2.39	0.53
32:2a:1208:C:C6	44:2m:104:ARG:HA	2.43	0.53
32:2a:1294:G:O2'	32:2a:1295:U:H5'	2.08	0.53
32:2a:1482:G:H4'	32:2a:1483:G:O4'	2.07	0.53
35:2d:140:VAL:HG12	35:2d:185:PHE:CD2	2.38	0.53
37:2f:4:TYR:HE2	37:2f:72:VAL:HG11	1.65	0.53
38:2g:116:ALA:O	38:2g:118:VAL:N	2.42	0.53
41:2j:38:ILE:CD1	41:2j:71:LEU:HB3	2.32	0.53
41:2j:39:PRO:HA	41:2j:70:ARG:HH11	1.72	0.53
44:2m:80:ARG:HH11	44:2m:81:LEU:CD1	2.21	0.53
1:1A:289:G:H2'	1:1A:290:G:C8	2.43	0.53
1:1A:346:G:C8	5:1F:171:PRO:HG3	2.43	0.53
1:1A:535:U:O2'	1:1A:1259:G:N2	2.41	0.53
1:1A:1095:A:O2'	1:1A:1096:G:H5'	2.08	0.53
1:1A:1513:C:C2'	1:1A:1514:C:H5'	2.39	0.53
1:1A:1794:G:O2'	1:1A:1795:C:H5'	2.07	0.53
1:1A:2417:U:OP1	1:1A:2422:A:N6	2.42	0.53
1:1A:2817:U:O2'	1:1A:2818:A:H5'	2.09	0.53
8:1I:43:ASN:ND2	23:11:75:GLU:OE1	2.41	0.53
15:1T:91:ARG:O	15:1T:117:ASP:N	2.40	0.53
22:10:67:VAL:HG12	22:10:68:GLU:N	2.24	0.53
25:13:23:LEU:CD1	25:13:50:VAL:HG11	2.38	0.53
32:1a:180:A:H1'	51:1t:81:LYS:NZ	2.23	0.53
32:1a:275:A:N7	48:1q:98:LEU:HD23	2.24	0.53
32:1a:926:C:O2'	32:1a:927:A:H5'	2.07	0.53
32:1a:1122:G:H4'	32:1a:1123:C:OP1	2.08	0.53
32:1a:1238:A:OP2	32:1a:1261:A:N6	2.38	0.53
32:1a:1302:C:H1'	50:1s:72:GLY:O	2.09	0.53
32:1a:1334:C:H2'	32:1a:1335:G:O4'	2.09	0.53
32:1a:1364:U:O2'	32:1a:1365:C:H5'	2.08	0.53
32:1a:1406:G:O2'	32:1a:1407:C:H5'	2.08	0.53
33:1b:74:LYS:O	33:1b:78:GLN:N	2.42	0.53
33:1b:84:GLU:O	33:1b:219:VAL:HG21	2.08	0.53
33:1b:178:ARG:HD2	39:1h:71:GLY:O	2.07	0.53
34:1c:22:TRP:CH2	34:1c:29:TYR:CD1	2.96	0.53
34:1c:137:ALA:HA	34:1c:140:ARG:CZ	2.38	0.53
34:1c:142:MET:HG3	34:1c:170:GLN:CD	2.33	0.53
35:1d:79:PHE:CD2	35:1d:207:TYR:CD2	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1d:200:GLU:HG2	35:1d:201:GLN:N	2.22	0.53
42:1k:97:ALA:O	42:1k:101:SER:HB3	2.08	0.53
43:1l:92:0TD:O	43:1l:94:PRO:HD3	2.08	0.53
1:2A:288:G:H1	1:2A:395:C:H42	1.55	0.53
1:2A:512:C:H2'	1:2A:513:G:C5'	2.39	0.53
1:2A:538:A:O2'	1:2A:539:A:H5'	2.08	0.53
1:2A:1155:G:H1'	1:2A:1156:A:H8	1.72	0.53
1:2A:1430:G:O2'	1:2A:1441:U:O2	2.26	0.53
1:2A:1555:A:H2'	1:2A:1556:A:C5'	2.38	0.53
1:2A:1643:C:O3'	19:2X:35:THR:HG23	2.08	0.53
1:2A:1776:G:O2'	1:2A:1777:G:H5'	2.09	0.53
1:2A:1852:G:O2'	1:2A:1853:G:H5'	2.07	0.53
1:2A:2030:G:O6	59:2A:3879:HOH:O	2.19	0.53
1:2A:2649:G:P	4:2E:82:ARG:HH22	2.31	0.53
1:2A:2664:U:H5"	1:2A:2665:A:OP2	2.09	0.53
1:2A:2848:G:H5'	13:2R:46:GLY:HA2	1.90	0.53
2:2B:1:U:O2'	2:2B:2:C:O5'	2.27	0.53
2:2B:69:G:O2'	2:2B:70:C:H5'	2.09	0.53
3:2D:25:THR:OG1	3:2D:81:ALA:HB1	2.07	0.53
3:2D:226:MET:HB3	3:2D:230:ASP:HB2	1.90	0.53
7:2H:8:PRO:O	7:2H:10:PRO:HD3	2.09	0.53
8:2I:93:THR:N	8:2I:96:ASP:OD2	2.38	0.53
9:2N:47:ALA:HB2	9:2N:112:LEU:CD1	2.37	0.53
10:2O:17:ARG:HB2	10:2O:45:GLU:O	2.09	0.53
11:2P:100:LEU:HD12	11:2P:112:LEU:HD11	1.89	0.53
11:2P:120:ALA:CB	11:2P:138:LEU:HA	2.38	0.53
15:2T:53:ARG:O	15:2T:59:THR:HG23	2.08	0.53
15:2T:68:TYR:N	15:2T:68:TYR:CD1	2.77	0.53
19:2X:68:ARG:HB3	19:2X:69:TYR:HE1	1.73	0.53
26:24:15:ILE:HB	26:24:32:TYR:CE1	2.43	0.53
32:2a:92:G:C2'	32:2a:93:U:H5'	2.39	0.53
32:2a:355:U:H2'	32:2a:356:A:C8	2.43	0.53
32:2a:372:G:H5"	47:2p:5:ARG:HB2	1.90	0.53
32:2a:648:G:H2'	32:2a:650:G:OP1	2.07	0.53
32:2a:940:C:H2'	32:2a:941:G:H8	1.73	0.53
32:2a:1008:C:O5'	32:2a:1008:C:H6	1.90	0.53
32:2a:1042:C:H2'	32:2a:1043:C:H6	1.71	0.53
32:2a:1487:C:O2'	32:2a:1488:U:H5'	2.09	0.53
33:2b:24:TRP:CZ3	33:2b:26:PRO:HA	2.43	0.53
40:2i:114:TYR:HB2	41:2j:60:ARG:HG3	1.90	0.53
42:2k:22:HIS:N	42:2k:29:ILE:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:2o:39:LEU:CD2	46:2o:43:LEU:HG	2.38	0.53
52:2u:18:TYR:CD2	52:2u:24:ARG:HB2	2.42	0.53
1:1A:263:G:O2'	1:1A:264:U:H5'	2.08	0.53
1:1A:301:A:H4'	1:1A:302:C:OP1	2.09	0.53
1:1A:1719:U:C2'	1:1A:1720:G:H5'	2.39	0.53
1:1A:1893:G:H2'	1:1A:1894:U:C6	2.43	0.53
1:1A:1895:G:H5"	59:1A:4334:HOH:O	2.09	0.53
1:1A:2272:C:C2'	1:1A:2273:U:H5'	2.39	0.53
1:1A:2637:C:H2'	1:1A:2638:G:O4'	2.08	0.53
4:1E:5:LEU:HD23	4:1E:197:ILE:HG12	1.89	0.53
5:1F:53:THR:HG23	5:1F:55:GLY:H	1.72	0.53
11:1P:18:ARG:NH2	11:1P:21:ARG:HE	2.06	0.53
11:1P:129:ALA:C	11:1P:130:PHE:HD1	2.16	0.53
17:1V:28:GLU:O	17:1V:61:VAL:HG11	2.09	0.53
32:1a:150:C:H2'	32:1a:151:G:O4'	2.09	0.53
32:1a:327:G:OP1	32:1a:328:G:H5'	2.08	0.53
32:1a:427:A:C2	32:1a:428:A:H1'	2.44	0.53
32:1a:431:C:O2'	32:1a:432:C:H5'	2.08	0.53
32:1a:592:A:O2'	47:1p:18:ARG:NH1	2.40	0.53
32:1a:916:A:N3	32:1a:1359:U:O2'	2.31	0.53
32:1a:982:G:H2'	32:1a:983:A:O5'	2.07	0.53
32:1a:1146:C:H2'	32:1a:1147:G:O4'	2.06	0.53
33:1b:69:LEU:HD13	33:1b:91:PRO:HB2	1.89	0.53
33:1b:111:ARG:NH2	33:1b:114:ARG:HG2	2.24	0.53
33:1b:185:ILE:HG22	33:1b:199:TYR:CD2	2.43	0.53
35:1d:85:LYS:HG2	35:1d:92:VAL:HG11	1.90	0.53
49:1r:53:ARG:HH21	49:1r:59:SER:HA	1.72	0.53
50:1s:40:ILE:HB	50:1s:67:VAL:CA	2.39	0.53
50:1s:40:ILE:CB	50:1s:67:VAL:HA	2.37	0.53
50:1s:44:MET:C	50:1s:47:HIS:HD1	2.15	0.53
1:2A:234:C:H2'	1:2A:235:G:H5'	1.90	0.53
1:2A:852:C:O2'	1:2A:2456:G:O2'	2.25	0.53
1:2A:977:A:O2'	1:2A:978:G:H5'	2.08	0.53
1:2A:1384:G:H21	1:2A:1648:A:H1'	1.73	0.53
1:2A:1700:A:O2'	4:2E:113:PHE:O	2.22	0.53
1:2A:2107:U:OP2	3:2D:263:ARG:NE	2.40	0.53
2:2B:21:G:H1	2:2B:62:C:H42	1.54	0.53
7:2H:8:PRO:HB3	7:2H:51:ARG:HG3	1.88	0.53
7:2H:144:VAL:O	7:2H:148:ILE:HD12	2.08	0.53
9:2N:4:TYR:HE1	9:2N:6:PRO:HA	1.72	0.53
12:2Q:21:THR:HA	12:2Q:98:LYS:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2R:9:LYS:O	13:2R:17:ARG:HD3	2.08	0.53
14:2S:39:ILE:HB	14:2S:49:VAL:HB	1.91	0.53
27:25:33:CYS:O	27:25:37:LYS:N	2.38	0.53
32:2a:116:G:O2'	32:2a:117:C:H5'	2.09	0.53
32:2a:485:C:O2'	32:2a:486:G:H5'	2.08	0.53
32:2a:756:U:O2'	32:2a:757:G:H5'	2.09	0.53
32:2a:1043:C:C5'	41:2j:51:ARG:HB3	2.37	0.53
32:2a:1331:A:H5"	40:2i:121:ARG:HB2	1.90	0.53
34:2c:173:VAL:HG13	34:2c:182:ILE:HD13	1.89	0.53
35:2d:142:PRO:HG3	35:2d:188:LEU:HD12	1.90	0.53
37:2f:12:PRO:HG2	37:2f:55:ASP:OD2	2.08	0.53
37:2f:76:ALA:HB1	37:2f:80:ARG:CZ	2.39	0.53
40:2i:32:ASP:O	40:2i:35:GLU:N	2.42	0.53
44:2m:16:ASP:HB3	44:2m:34:LEU:CD1	2.36	0.53
50:2s:34:TRP:CD1	50:2s:52:TYR:HD2	2.25	0.53
1:1A:553:A:H62	1:1A:2062:U:H3	1.56	0.53
1:1A:1276:G:N7	59:1A:4502:HOH:O	2.34	0.53
1:1A:1984:U:OP1	1:1A:1984:U:H2'	2.08	0.53
1:1A:2308:C:H2'	1:1A:2309:A:C8	2.44	0.53
1:1A:2351:G:H2'	1:1A:2352:G:C8	2.44	0.53
1:1A:2365:G:H4'	22:10:35:ASN:OD1	2.07	0.53
1:1A:2859:A:H2'	1:1A:2860:A:C8	2.44	0.53
1:1A:2895:G:O2'	1:1A:2896:U:H5'	2.09	0.53
2:1B:119:G:O2'	2:1B:120:A:H5'	2.07	0.53
4:1E:101:ARG:HD2	4:1E:169:ASN:O	2.09	0.53
5:1F:84:VAL:O	59:1F:412:HOH:O	2.18	0.53
22:10:8:GLY:O	22:10:9:SER:HB3	2.08	0.53
25:13:39:ASP:CG	25:13:44:ARG:HH21	2.16	0.53
32:1a:37:C:C2'	32:1a:38:U:H5'	2.39	0.53
32:1a:368:C:H4'	32:1a:369:A:OP1	2.07	0.53
32:1a:441:G:O6	59:1a:2060:HOH:O	2.18	0.53
32:1a:647:A:O2'	32:1a:648:G:H5'	2.08	0.53
32:1a:1020:C:O2'	32:1a:1021:C:H5'	2.09	0.53
32:1a:1263:U:H2'	32:1a:1264:C:C5	2.43	0.53
32:1a:1351:G:O2'	32:1a:1352:C:H5'	2.09	0.53
33:1b:178:ARG:HH22	39:1h:68:ARG:NH2	2.07	0.53
34:1c:131:ARG:HE	34:1c:135:LYS:HE3	1.73	0.53
40:1i:84:ALA:O	40:1i:87:GLN:N	2.42	0.53
44:1m:13:LYS:HA	44:1m:44:ARG:HH11	1.74	0.53
45:1n:48:ALA:CA	45:1n:53:LEU:HD12	2.38	0.53
46:1o:39:LEU:CB	46:1o:56:LEU:HD13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:1o:79:ARG:O	46:1o:82:ILE:HG12	2.09	0.53
47:1p:39:TYR:HA	47:1p:48:TRP:O	2.08	0.53
50:1s:28:LYS:HD2	50:1s:47:HIS:HA	1.91	0.53
1:2A:93:G:O2'	24:22:46:GLN:HA	2.08	0.53
1:2A:554:G:N1	1:2A:2044:G:OP1	2.34	0.53
1:2A:561:C:H2'	1:2A:562:G:C8	2.40	0.53
1:2A:768:A:O2'	1:2A:769:G:H5'	2.09	0.53
1:2A:875:A:N7	1:2A:2258:A:O2'	2.31	0.53
1:2A:969:C:H2'	1:2A:970:C:C6	2.44	0.53
1:2A:1022:G:H1	1:2A:1031:C:H42	1.57	0.53
1:2A:1626:A:H8	1:2A:1626:A:OP2	1.90	0.53
1:2A:1829:G:H8	3:2D:181:GLU:OE1	1.92	0.53
1:2A:2700:U:P	1:2A:2731:G:H22	2.32	0.53
1:2A:2872:C:H2'	1:2A:2873:G:H8	1.73	0.53
3:2D:273:ARG:HH21	3:2D:274:ARG:HH21	1.56	0.53
4:2E:24:THR:HG23	4:2E:186:GLY:O	2.09	0.53
4:2E:54:GLN:OE1	4:2E:58:ARG:NH1	2.39	0.53
4:2E:60:ASN:OD1	4:2E:63:LEU:HB2	2.08	0.53
5:2F:123:LEU:HD11	5:2F:192:LEU:HD22	1.91	0.53
7:2H:69:ARG:O	7:2H:72:ILE:N	2.41	0.53
7:2H:88:LEU:CD1	7:2H:165:ALA:HA	2.39	0.53
8:2I:39:ALA:CB	8:2I:44:LEU:HD11	2.36	0.53
9:2N:4:TYR:CE1	9:2N:6:PRO:HA	2.43	0.53
12:2Q:52:VAL:HG13	21:2Z:183:LEU:HD13	1.90	0.53
32:2a:96:G:N3	32:2a:146:A:H2	2.07	0.53
32:2a:236:C:O2'	32:2a:237:C:H5'	2.09	0.53
32:2a:494:A:H5"	32:2a:495:C:P	2.48	0.53
32:2a:636:U:H1'	32:2a:637:A:H2	1.73	0.53
32:2a:1311:A:OP2	52:2u:7:ARG:NH1	2.41	0.53
33:2b:114:ARG:NH1	33:2b:118:LEU:HD21	2.23	0.53
34:2c:8:ILE:CG1	34:2c:184:TYR:HB3	2.39	0.53
34:2c:83:ARG:HA	34:2c:86:VAL:CB	2.38	0.53
38:2g:17:VAL:HG12	38:2g:18:TYR:CD1	2.44	0.53
38:2g:57:GLU:HG3	38:2g:59:LEU:HB3	1.90	0.53
47:2p:4:ILE:HB	47:2p:66:PRO:CB	2.38	0.53
1:1A:101:U:H2'	1:1A:102:C:H5'	1.90	0.53
1:1A:1368:U:OP1	18:1W:84:ARG:NE	2.41	0.53
1:1A:1613:A:C8	3:1D:84:TYR:HE2	2.26	0.53
1:1A:1684:C:H4'	1:1A:2721:C:O2	2.08	0.53
1:1A:2085:C:H2'	1:1A:2086:C:C6	2.43	0.53
1:1A:2349:G:O2'	1:1A:2350:G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2583:A:N7	4:1E:144:ARG:HD2	2.24	0.53
1:1A:2650:A:H2'	1:1A:2651:G:H5'	1.90	0.53
1:1A:2792:G:P	9:1N:118:LYS:HE2	2.49	0.53
2:1B:6:C:C3'	2:1B:7:G:H5"	2.38	0.53
5:1F:133:ASN:N	5:1F:138:GLU:OE1	2.41	0.53
14:1S:25:ARG:HH21	14:1S:40:ILE:HD12	1.73	0.53
14:1S:67:ARG:O	14:1S:71:ARG:N	2.32	0.53
19:1X:28:PHE:O	19:1X:78:LYS:HB2	2.08	0.53
21:1Z:51:ALA:CB	21:1Z:57:ILE:HD11	2.38	0.53
21:1Z:96:VAL:O	21:1Z:127:LYS:HA	2.09	0.53
23:11:18:ILE:HG21	23:11:20:ARG:HE	1.74	0.53
23:11:19:GLN:O	23:11:35:THR:HG22	2.09	0.53
26:14:61:ARG:HD3	50:1s:67:VAL:HG12	1.91	0.53
28:16:30:THR:HG22	28:16:30:THR:O	2.09	0.53
32:1a:18:U:C1'	32:1a:1063:A:H1'	2.38	0.53
32:1a:144:A:O2'	32:1a:145:C:H5'	2.07	0.53
32:1a:427:A:H2'	32:1a:428:A:O4'	2.08	0.53
32:1a:1331:A:C2'	32:1a:1332:A:H5'	2.39	0.53
32:1a:1442:G:H2'	32:1a:1443:C:C6	2.44	0.53
33:1b:222:ILE:CG2	33:1b:226:ARG:HD2	2.39	0.53
36:1e:77:PRO:O	39:1h:105:ARG:HG2	2.09	0.53
36:1e:105:VAL:HG21	36:1e:128:PRO:HB3	1.90	0.53
37:1f:44:GLY:HA2	37:1f:59:TYR:CD1	2.44	0.53
40:1i:5:TYR:HA	40:1i:18:PHE:HA	1.89	0.53
42:1k:19:ALA:C	42:1k:20:TYR:HD1	2.16	0.53
43:1l:42:THR:HA	43:1l:53:ARG:O	2.08	0.53
43:1l:102:ARG:NH2	43:1l:109:GLY:O	2.41	0.53
43:1l:117:ARG:NH1	43:1l:123:LYS:C	2.67	0.53
51:1t:55:ILE:O	51:1t:58:LYS:N	2.40	0.53
1:2A:278:G:O2'	1:2A:279:C:H5'	2.08	0.53
1:2A:773:A:H2	3:2D:9:TYR:CD2	2.26	0.53
1:2A:868:U:O2'	1:2A:869:G:H5'	2.07	0.53
1:2A:933:A:O2'	1:2A:934:C:H5"	2.09	0.53
1:2A:1079:G:N2	1:2A:1167:G:H1'	2.23	0.53
1:2A:1190:C:O2'	1:2A:1191:C:H5'	2.08	0.53
1:2A:2549:C:H2'	1:2A:2550:C:C6	2.44	0.53
4:2E:9:VAL:HG23	15:2T:3:ARG:HB3	1.89	0.53
4:2E:111:ARG:HD2	4:2E:160:TYR:CE2	2.43	0.53
9:2N:112:LEU:O	9:2N:116:LEU:N	2.40	0.53
10:2O:9:GLU:O	10:2O:83:ALA:HA	2.09	0.53
14:2S:87:PHE:CE1	14:2S:102:ALA:HB2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:23:7:LYS:HA	25:23:33:GLN:O	2.09	0.53
25:23:11:SER:HA	25:23:31:LEU:HD21	1.90	0.53
32:2a:366:C:O2'	32:2a:367:G:H5'	2.09	0.53
32:2a:559:G:H4'	32:2a:560:G:H5"	1.91	0.53
32:2a:631:C:O2'	32:2a:632:A:H5'	2.09	0.53
32:2a:1101:C:H5'	40:2i:104:ARG:HD3	1.90	0.53
34:2c:173:VAL:O	34:2c:175:LEU:HD12	2.09	0.53
36:2e:9:LYS:HE3	36:2e:112:LEU:HD21	1.91	0.53
36:2e:18:ARG:HD3	36:2e:25:ARG:O	2.08	0.53
47:2p:19:ILE:HB	47:2p:37:GLY:CA	2.39	0.53
52:2u:12:LYS:HB2	52:2u:22:ARG:CD	2.39	0.53
1:1A:637:U:H4'	1:1A:638:G:H5"	1.90	0.53
1:1A:782:C:O2'	1:1A:783:C:H5'	2.07	0.53
1:1A:879:U:O4'	11:1P:52:GLU:HA	2.09	0.53
1:1A:1101:G:N2	1:1A:1148:A:H62	2.04	0.53
1:1A:1111:U:H2'	1:1A:1112:A:C6	2.44	0.53
1:1A:1268:G:O6	17:1V:69:LYS:NZ	2.42	0.53
1:1A:2308:C:O2	1:1A:2332:G:N2	2.35	0.53
1:1A:2479:G:N2	1:1A:2492:G:H1'	2.23	0.53
3:1D:77:ALA:CB	3:1D:97:TYR:HA	2.39	0.53
6:1G:62:LEU:HD11	6:1G:148:MET:HE1	1.91	0.53
6:1G:110:ALA:HB1	6:1G:140:ILE:HG22	1.91	0.53
8:1I:77:LEU:O	8:1I:143:SER:N	2.42	0.53
11:1P:112:LEU:HD22	11:1P:127:ALA:HB1	1.89	0.53
21:1Z:158:PRO:CD	21:1Z:161:VAL:HG21	2.38	0.53
28:16:19:ARG:NH2	28:16:52:VAL:HG21	2.24	0.53
30:18:52:LYS:HB3	30:18:53:PRO:HD3	1.91	0.53
32:1a:244:C:O2'	32:1a:245:U:H5'	2.08	0.53
32:1a:522:G:H3'	43:1l:115:LYS:NZ	2.23	0.53
32:1a:562:C:O2	32:1a:712:A:H2	1.92	0.53
32:1a:582:U:O2'	32:1a:583:C:H5'	2.09	0.53
32:1a:591:A:H2'	32:1a:592:A:C8	2.44	0.53
32:1a:1002:G:H2'	32:1a:1003:G:H8	1.70	0.53
32:1a:1145:C:O2'	32:1a:1146:C:H5'	2.09	0.53
32:1a:1371:C:O2'	32:1a:1372:C:H5'	2.08	0.53
33:1b:9:GLU:CG	33:1b:217:ARG:HH22	2.21	0.53
35:1d:102:ASP:HA	35:1d:121:VAL:HG21	1.90	0.53
38:1g:69:VAL:HG12	38:1g:100:ALA:HA	1.91	0.53
40:1i:46:ALA:HA	40:1i:78:LYS:CE	2.39	0.53
50:1s:12:ASP:HB3	50:1s:14:HIS:NE2	2.23	0.53
50:1s:79:THR:HG22	50:1s:81:ARG:NH1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:907:A:OP2	59:2A:3880:HOH:O	2.19	0.53
1:2A:1015:C:OP2	59:2A:3882:HOH:O	2.19	0.53
1:2A:1522:C:O2'	1:2A:1523:A:H5'	2.08	0.53
1:2A:1752:U:O2'	1:2A:1787:U:OP2	2.19	0.53
1:2A:2216:C:C2'	1:2A:2217:C:H5'	2.38	0.53
1:2A:2387:A:N3	14:2S:106:ARG:NH2	2.57	0.53
1:2A:2555:G:O2'	1:2A:2556:G:H5'	2.08	0.53
2:2B:9:G:H1'	2:2B:113:G:N2	2.23	0.53
6:2G:57:ALA:HB2	6:2G:90:LEU:CD1	2.37	0.53
7:2H:77:LYS:CD	7:2H:81:GLU:HB2	2.38	0.53
7:2H:90:LYS:HE3	7:2H:159:GLU:CG	2.38	0.53
15:2T:119:LYS:HB2	32:2a:1426:G:N2	2.23	0.53
17:2V:2:PHE:HE1	17:2V:41:GLY:HA3	1.71	0.53
21:2Z:33:LEU:HD21	21:2Z:90:VAL:CB	2.39	0.53
22:20:46:LYS:CE	22:20:76:GLY:HA3	2.38	0.53
23:21:17:SER:HB2	23:21:40:ARG:HD2	1.90	0.53
28:26:3:SER:OG	28:26:5:VAL:HG12	2.08	0.53
32:2a:402:G:H5'	35:2d:5:ILE:HD11	1.91	0.53
32:2a:603:U:O2	35:2d:133:VAL:HA	2.08	0.53
32:2a:984:A:OP1	32:2a:985:C:N4	2.41	0.53
32:2a:1112:C:H1'	32:2a:1113:A:N7	2.24	0.53
32:2a:1133:U:O2	41:2j:39:PRO:HG2	2.09	0.53
32:2a:1238:A:H4'	32:2a:1240:G:C8	2.44	0.53
32:2a:1300:A:H1'	50:2s:37:ARG:HD2	1.90	0.53
33:2b:57:PHE:CG	33:2b:199:TYR:CE2	2.96	0.53
34:2c:53:ALA:HB2	34:2c:115:LEU:HD11	1.91	0.53
36:2e:87:SER:OG	36:2e:125:SER:O	2.17	0.53
37:2f:33:TYR:CE2	37:2f:75:LEU:HA	2.44	0.53
44:2m:91:ARG:NH2	44:2m:96:LEU:HB3	2.23	0.53
44:2m:102:ARG:HH21	44:2m:104:ARG:HD3	1.71	0.53
45:2n:29:ARG:HD3	45:2n:40:CYS:SG	2.49	0.53
1:1A:412:G:H3'	1:1A:414:G:N2	2.24	0.53
1:1A:960:C:H2'	1:1A:961:G:H5'	1.90	0.53
1:1A:2871:G:O2'	1:1A:2872:C:H5'	2.09	0.53
4:1E:51:PHE:O	4:1E:52:LEU:HB2	2.09	0.53
5:1F:46:ARG:HB3	5:1F:48:THR:HG23	1.91	0.53
5:1F:51:THR:HG21	5:1F:92:PRO:HD2	1.91	0.53
6:1G:56:ALA:HB2	6:1G:153:ARG:CZ	2.39	0.53
6:1G:58:GLN:O	6:1G:62:LEU:HG	2.09	0.53
6:1G:73:ALA:HB2	6:1G:88:ILE:HD13	1.90	0.53
8:1I:109:ILE:HG13	8:1I:130:TYR:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1O:122:LEU:HD23	15:1T:43:GLN:NE2	2.24	0.53
11:1P:113:LYS:HA	11:1P:129:ALA:O	2.09	0.53
18:1W:12:ILE:HG23	18:1W:101:SER:OG	2.08	0.53
23:11:8:SER:HB3	23:11:66:HIS:ND1	2.24	0.53
32:1a:231:C:H2'	32:1a:232:G:C8	2.32	0.53
32:1a:436:A:H3'	32:1a:437:C:C6	2.43	0.53
32:1a:634:G:H2'	32:1a:635:C:H5'	1.90	0.53
32:1a:1251:A:H1'	32:1a:1308:C:C1'	2.38	0.53
32:1a:1262:A:O2'	32:1a:1263:U:H5'	2.08	0.53
33:1b:123:ALA:O	33:1b:124:SER:CB	2.57	0.53
34:1c:155:GLY:O	34:1c:157:ILE:N	2.41	0.53
35:1d:32:ALA:O	35:1d:35:ARG:N	2.41	0.53
44:1m:3:ARG:HG2	44:1m:8:GLU:OE2	2.09	0.53
51:1t:59:ALA:O	51:1t:63:ILE:HG13	2.09	0.53
1:2A:18:C:H2'	1:2A:19:C:H6	1.74	0.53
1:2A:81:G:N2	1:2A:99:G:H1'	2.24	0.53
1:2A:425:G:C2'	1:2A:426:G:H5'	2.38	0.53
1:2A:775:G:C6	3:2D:208:LYS:HB2	2.44	0.53
1:2A:1042:G:O2'	1:2A:1043:C:H5'	2.08	0.53
1:2A:1127:U:N3	1:2A:1130:A:H2	2.07	0.53
1:2A:1191:C:C2'	1:2A:1192:C:H5'	2.38	0.53
1:2A:1625:A:H2'	1:2A:1626:A:C8	2.44	0.53
1:2A:1701:A:H4'	4:2E:115:GLY:N	2.24	0.53
1:2A:1840:A:H2'	1:2A:1841:G:H5'	1.91	0.53
1:2A:2061:C:H2'	1:2A:2062:U:O4'	2.08	0.53
1:2A:2184:C:H3'	1:2A:2185:C:H6	1.72	0.53
1:2A:2799:C:H2'	1:2A:2800:C:H6	1.74	0.53
3:2D:33:LEU:HD13	3:2D:103:ARG:HA	1.91	0.53
5:2F:81:PRO:HG3	5:2F:89:VAL:CG2	2.39	0.53
6:2G:12:TYR:HA	6:2G:16:ARG:HG2	1.87	0.53
6:2G:63:ILE:HG22	6:2G:64:THR:N	2.24	0.53
11:2P:90:ARG:HH11	11:2P:91:PHE:HE1	1.57	0.53
12:2Q:17:LEU:HD21	12:2Q:96:VAL:HG13	1.91	0.53
15:2T:56:GLY:O	15:2T:59:THR:OG1	2.15	0.53
17:2V:33:VAL:HG23	17:2V:35:LEU:HD11	1.91	0.53
18:2W:16:LYS:O	18:2W:19:LEU:HB2	2.09	0.53
32:2a:149:C:O2'	32:2a:150:C:H5'	2.09	0.53
32:2a:224:A:H4'	47:2p:62:VAL:HG11	1.91	0.53
32:2a:273:C:OP2	48:2q:41:LYS:NZ	2.40	0.53
32:2a:334:A:H61	32:2a:347:G:H1	1.55	0.53
32:2a:432:C:O2'	32:2a:433:U:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:442:G:H2'	32:2a:470:G:N2	2.23	0.53
32:2a:1165:A:O2'	32:2a:1166:G:P	2.67	0.53
32:2a:1237:G:OP1	34:2c:26:LYS:HD2	2.08	0.53
32:2a:1309:C:O2'	32:2a:1310:C:H5'	2.08	0.53
32:2a:1431:U:C2'	32:2a:1432:A:O5'	2.56	0.53
33:2b:199:TYR:N	33:2b:199:TYR:CD1	2.76	0.53
33:2b:219:VAL:HA	33:2b:222:ILE:HG12	1.90	0.53
35:2d:105:VAL:HG21	35:2d:121:VAL:HG23	1.91	0.53
38:2g:99:LEU:HD23	38:2g:102:ARG:HH12	1.74	0.53
41:2j:40:LEU:HB3	41:2j:41:PRO:CD	2.35	0.53
41:2j:43:ARG:HB2	41:2j:67:THR:HG1	1.74	0.53
48:2q:9:VAL:O	48:2q:21:VAL:HA	2.08	0.53
49:2r:59:SER:H	49:2r:62:GLU:CD	2.15	0.53
51:2t:41:ILE:O	51:2t:45:GLN:N	2.34	0.53
1:1A:16:G:H4'	16:1U:25:TRP:NE1	2.23	0.53
1:1A:62:A:C4	19:1X:66:LEU:HD23	2.43	0.53
1:1A:312:A:H2'	1:1A:313:G:C5'	2.38	0.53
1:1A:858:C:HO2'	1:1A:1271:A:HO2'	1.54	0.53
1:1A:1006:G:O2'	1:1A:2507:C:O2'	2.00	0.53
1:1A:1212:U:O2'	1:1A:1213:G:H5'	2.09	0.53
1:1A:1331:A:H1'	1:1A:1333:U:OP2	2.09	0.53
1:1A:1641:A:C2'	1:1A:1642:A:H5'	2.39	0.53
1:1A:1688:G:C2'	1:1A:1689:G:H5'	2.39	0.53
1:1A:1797:C:H2'	1:1A:1798:U:H5'	1.90	0.53
1:1A:1874:C:H5'	59:1D:416:HOH:O	2.09	0.53
1:1A:2148:G:H1'	1:1A:2194:A:C2	2.42	0.53
1:1A:2606:G:N2	1:1A:2609:A:OP2	2.38	0.53
6:1G:109:VAL:C	6:1G:112:PRO:HD2	2.34	0.53
10:1O:98:VAL:HG23	10:1O:118:ALA:HA	1.91	0.53
15:1T:9:LEU:O	15:1T:12:SER:OG	2.16	0.53
28:16:5:VAL:HA	28:16:27:LYS:HE2	1.90	0.53
32:1a:330:C:O2	32:1a:1417:A:O2'	2.21	0.53
32:1a:406:G:OP1	35:1d:30:LYS:NZ	2.39	0.53
32:1a:493:A:H3'	59:1a:2011:HOH:O	2.09	0.53
34:1c:96:GLY:O	34:1c:97:LYS:HB3	2.06	0.53
35:1d:177:ASP:OD2	35:1d:182:LYS:HE2	2.08	0.53
36:1e:35:GLY:HA3	36:1e:112:LEU:HB3	1.91	0.53
37:1f:69:GLU:OE1	37:1f:69:GLU:N	2.36	0.53
40:1i:24:GLY:HA2	40:1i:59:PHE:O	2.09	0.53
45:1n:24:CYS:SG	45:1n:39:LEU:HA	2.49	0.53
1:2A:270:U:H4'	1:2A:271:U:OP1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:885:U:O2'	1:2A:886:C:H5'	2.08	0.53
1:2A:1108:G:O2'	1:2A:1109:C:H5"	2.09	0.53
1:2A:1121:C:C1'	1:2A:1122:A:H5'	2.27	0.53
1:2A:1297:G:O6	16:2U:36:ARG:HD2	2.09	0.53
1:2A:1530:G:O2'	1:2A:1531:A:H5'	2.08	0.53
1:2A:1551:C:C2'	1:2A:1552:A:H5'	2.39	0.53
1:2A:1576:C:O2'	1:2A:1577:C:H6	1.92	0.53
1:2A:1784:C:O2'	1:2A:1785:A:H5'	2.09	0.53
1:2A:2340:G:H2'	1:2A:2341:G:H8	1.68	0.53
1:2A:2759:G:H1	1:2A:2766:U:H2'	1.74	0.53
1:2A:2799:C:C1'	4:2E:62:PRO:HG3	2.29	0.53
1:2A:2878:G:O2'	1:2A:2879:C:H5'	2.09	0.53
1:2A:2895:G:O2'	1:2A:2896:U:H5'	2.09	0.53
4:2E:36:ARG:HG2	4:2E:47:VAL:HG12	1.90	0.53
5:2F:97:TYR:N	5:2F:97:TYR:CD1	2.76	0.53
8:2I:69:LYS:HB3	8:2I:138:ILE:HG12	1.90	0.53
11:2P:19:VAL:O	11:2P:21:ARG:HD2	2.09	0.53
14:2S:62:LYS:HA	14:2S:65:VAL:CG2	2.39	0.53
21:2Z:104:PHE:N	21:2Z:104:PHE:CD1	2.76	0.53
22:20:46:LYS:N	22:20:77:ARG:O	2.42	0.53
24:22:2:LYS:O	24:22:6:VAL:HG23	2.08	0.53
32:2a:358:G:H2'	32:2a:360:A:OP2	2.09	0.53
32:2a:538:C:O2'	32:2a:539:C:H5'	2.09	0.53
32:2a:568:G:OP1	48:2q:91:ARG:NH2	2.42	0.53
32:2a:614:G:O2'	32:2a:615:G:H5'	2.09	0.53
32:2a:691:C:H5"	42:2k:85:ARG:HH12	1.73	0.53
32:2a:725:G:H5"	46:2o:59:MET:CE	2.38	0.53
32:2a:993:A:H2'	32:2a:994:A:C8	2.43	0.53
32:2a:1010:G:H1'	32:2a:1012:G:N7	2.24	0.53
34:2c:130:VAL:O	34:2c:134:ILE:HG13	2.08	0.53
35:2d:8:VAL:HG13	35:2d:9:CYS:H	1.72	0.53
36:2e:34:VAL:HG11	36:2e:62:ALA:HB1	1.90	0.53
1:1A:353:A:H2	1:1A:1254:A:O2'	1.91	0.53
1:1A:863:C:H2'	1:1A:864:G:O4'	2.08	0.53
1:1A:1176:G:OP2	1:1A:2526:C:H4'	2.09	0.53
1:1A:1204:U:O2'	1:1A:1205:G:H5'	2.09	0.53
1:1A:1829:G:N7	3:1D:179:SER:OG	2.41	0.53
1:1A:2330:G:H1	14:1S:3:ARG:HA	1.74	0.53
1:1A:2570:C:O2'	1:1A:2571:C:H5'	2.08	0.53
1:1A:2631:C:O2'	4:1E:119:ARG:NH2	2.42	0.53
12:1Q:29:PHE:HD1	12:1Q:29:PHE:N	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1T:27:THR:HB	15:1T:89:VAL:HG23	1.91	0.53
16:1U:105:VAL:O	16:1U:108:GLU:HB3	2.09	0.53
26:14:64:GLY:C	26:14:66:SER:H	2.16	0.53
32:1a:145:C:H2'	32:1a:146:A:H8	1.74	0.53
32:1a:151:G:H1	32:1a:160:C:N4	2.06	0.53
32:1a:1202:G:N2	32:1a:1203:G:H1'	2.24	0.53
32:1a:1217:U:OP1	52:1u:3:LYS:HE3	2.09	0.53
32:1a:1291:G:H4'	44:1m:74:VAL:HG13	1.91	0.53
32:1a:1291:G:P	44:1m:88:ARG:HH21	2.32	0.53
33:1b:213:LEU:O	33:1b:217:ARG:HG2	2.09	0.53
34:1c:148:GLY:HA3	34:1c:203:PHE:HB3	1.90	0.53
34:1c:154:SER:OG	34:1c:165:THR:HG23	2.09	0.53
35:1d:158:ILE:O	35:1d:162:LEU:N	2.31	0.53
35:1d:187:ARG:NH1	35:1d:189:PRO:HA	2.24	0.53
37:1f:30:LEU:HD11	37:1f:63:TYR:HE2	1.74	0.53
37:1f:48:LEU:HD22	49:1r:77:GLY:O	2.09	0.53
39:1h:42:GLU:HG3	39:1h:109:ILE:HD13	1.91	0.53
41:1j:33:GLN:CB	41:1j:76:ASN:H	2.22	0.53
44:1m:16:ASP:HB3	44:1m:34:LEU:CD1	2.39	0.53
50:1s:19:VAL:CG2	50:1s:44:MET:HG2	2.39	0.53
1:2A:406:U:O2'	1:2A:407:G:H5'	2.09	0.53
1:2A:580:G:O2'	1:2A:581:G:H5'	2.09	0.53
1:2A:800:C:O2'	1:2A:801:C:H5'	2.09	0.53
1:2A:936:A:C2'	1:2A:937:G:H5'	2.39	0.53
1:2A:1567:G:H3'	1:2A:1568:U:C6	2.43	0.53
1:2A:2318:G:H8	1:2A:2318:G:OP1	1.92	0.53
1:2A:2328:C:N4	1:2A:2329:G:O6	2.42	0.53
2:2B:21:G:C2'	2:2B:22:U:H5'	2.39	0.53
2:2B:112:U:O2'	2:2B:113:G:H5'	2.09	0.53
4:2E:143:ASN:HD22	4:2E:147:PRO:CD	2.22	0.53
4:2E:173:VAL:HG21	4:2E:185:LYS:HB2	1.91	0.53
6:2G:16:ARG:HH12	6:2G:31:VAL:HG21	1.74	0.53
6:2G:77:ILE:HG21	6:2G:80:PHE:CB	2.34	0.53
6:2G:110:ALA:HB1	6:2G:140:ILE:HG22	1.91	0.53
6:2G:125:PHE:HB3	6:2G:166:ASP:CG	2.34	0.53
12:2Q:137:TYR:HE2	21:2Z:83:PRO:CG	2.20	0.53
15:2T:21:GLU:O	15:2T:91:ARG:NH1	2.39	0.53
17:2V:33:VAL:HG22	17:2V:59:ALA:O	2.09	0.53
23:21:80:LEU:CD2	23:21:82:LEU:HD21	2.39	0.53
24:22:68:ARG:C	24:22:70:GLN:H	2.15	0.53
25:23:51:ALA:O	25:23:53:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:134:G:H2'	32:2a:135:A:C8	2.43	0.53
32:2a:583:C:H42	32:2a:623:G:H1	1.57	0.53
32:2a:647:A:H5"	49:2r:61:LYS:NZ	2.23	0.53
32:2a:857:C:H5"	43:2l:8:ASN:HD22	1.74	0.53
32:2a:1357:A:C2'	32:2a:1358:A:H5'	2.39	0.53
32:2a:1373:U:O2'	32:2a:1374:U:H5'	2.08	0.53
33:2b:134:GLU:HA	33:2b:137:ARG:HH21	1.74	0.53
36:2e:7:GLU:O	36:2e:34:VAL:HG23	2.09	0.53
41:2j:38:ILE:HD11	41:2j:71:LEU:HD22	1.91	0.53
43:2l:7:ILE:HG21	48:2q:34:LYS:HD2	1.90	0.53
50:2s:36:ARG:HB3	50:2s:72:GLY:CA	2.38	0.53
51:2t:27:LYS:O	51:2t:30:LYS:N	2.41	0.53
1:1A:199:A:C2'	1:1A:200:G:H5'	2.38	0.52
1:1A:292:C:C2'	1:1A:293:C:H5'	2.40	0.52
1:1A:2020:C:O2'	1:1A:2021:G:H5'	2.08	0.52
1:1A:2168:G:H2'	1:1A:2169:G:O4'	2.08	0.52
1:1A:2738:U:O2	10:1O:67:LYS:NZ	2.37	0.52
2:1B:37:C:O2	14:1S:95:HIS:NE2	2.42	0.52
3:1D:52:ARG:HB3	3:1D:53:PHE:CE2	2.44	0.52
3:1D:106:ILE:HD13	59:1D:445:HOH:O	2.09	0.52
6:1G:34:LEU:HD12	6:1G:100:TRP:CH2	2.44	0.52
6:1G:172:LEU:O	6:1G:176:LEU:HG	2.09	0.52
9:1N:123:TYR:HE2	9:1N:129:PRO:CD	2.18	0.52
12:1Q:32:TYR:HE2	12:1Q:111:GLU:HG3	1.74	0.52
21:1Z:91:LEU:CD2	21:1Z:130:PRO:HB3	2.37	0.52
28:16:25:LYS:HE2	28:16:51:GLU:OE2	2.09	0.52
32:1a:292:U:H2'	32:1a:293:G:H5'	1.91	0.52
32:1a:320:G:N2	32:1a:323:A:OP2	2.42	0.52
32:1a:621:G:O2'	32:1a:622:G:H5'	2.08	0.52
32:1a:922:G:H22	32:1a:1320:G:P	2.32	0.52
32:1a:951:G:H1'	41:1j:54:PHE:CD1	2.44	0.52
33:1b:124:SER:CB	33:1b:125:PRO:CD	2.87	0.52
33:1b:160:ASP:O	33:1b:183:PRO:HD2	2.09	0.52
40:1i:5:TYR:C	40:1i:87:GLN:HE22	2.16	0.52
40:1i:110:GLU:OE1	40:1i:120:ARG:NE	2.41	0.52
40:1i:114:TYR:HD2	41:1j:60:ARG:CG	2.22	0.52
41:1j:9:ARG:O	41:1j:95:GLU:N	2.35	0.52
44:1m:31:LYS:O	44:1m:35:GLU:HG3	2.09	0.52
47:1p:6:LEU:HB3	47:1p:17:TYR:CB	2.37	0.52
48:1q:9:VAL:O	48:1q:22:LEU:N	2.42	0.52
48:1q:18:THR:HG23	48:1q:44:ALA:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1031:C:C2'	1:2A:1032:G:H5'	2.39	0.52
1:2A:1320:A:H4'	1:2A:1321:A:O5'	2.09	0.52
1:2A:1408:C:H2'	1:2A:1409:G:O4'	2.09	0.52
1:2A:1536:G:O2'	1:2A:1537:G:H5'	2.09	0.52
1:2A:1840:A:H2'	1:2A:1841:G:O4'	2.09	0.52
1:2A:2442:U:H2'	1:2A:2444:A:OP2	2.09	0.52
1:2A:2563:OMU:O5'	1:2A:2563:OMU:H6	2.08	0.52
1:2A:2634:G:H5'	1:2A:2835:A:O2'	2.08	0.52
1:2A:2852:G:H1	1:2A:2883:C:H42	1.57	0.52
4:2E:49:LEU:O	4:2E:78:LEU:HD12	2.09	0.52
5:2F:97:TYR:N	5:2F:97:TYR:HD1	2.07	0.52
6:2G:131:TYR:CE2	6:2G:133:LEU:HD23	2.44	0.52
7:2H:101:ARG:HG2	7:2H:117:PRO:CG	2.38	0.52
7:2H:120:GLY:O	7:2H:121:ILE:HG12	2.09	0.52
8:2I:69:LYS:HG3	8:2I:70:GLU:N	2.23	0.52
18:2W:3:ALA:CB	18:2W:58:ALA:HB2	2.40	0.52
32:2a:398:G:H5'	32:2a:605:A:H1'	1.90	0.52
32:2a:425:U:H1'	32:2a:426:A:H5"	1.91	0.52
32:2a:657:G:H2'	32:2a:658:G:H8	1.73	0.52
32:2a:988:G:H1	32:2a:999:U:H3	1.57	0.52
32:2a:1119:U:H6	32:2a:1119:U:OP1	1.92	0.52
32:2a:1131:U:H2'	32:2a:1132:C:H5'	1.91	0.52
32:2a:1493:C:O2'	32:2a:1494:G:H5'	2.08	0.52
34:2c:111:LEU:HD21	34:2c:146:ALA:HB2	1.91	0.52
47:2p:4:ILE:HB	47:2p:66:PRO:CA	2.39	0.52
47:2p:9:PHE:CE2	47:2p:18:ARG:HD2	2.43	0.52
51:2t:19:SER:O	51:2t:22:ARG:HB2	2.09	0.52
1:1A:233:G:O2'	1:1A:234:C:H5'	2.09	0.52
1:1A:843:C:OP1	59:1F:404:HOH:O	2.19	0.52
1:1A:1302:C:H5'	5:1F:75:HIS:CE1	2.45	0.52
1:1A:1309:G:OP2	1:1A:1310:A:O2'	2.26	0.52
1:1A:1545:G:O2'	1:1A:1546:C:H5'	2.09	0.52
1:1A:2136:G:H1'	1:1A:2192:A:N6	2.24	0.52
1:1A:2339:A:O2'	1:1A:2340:G:H5'	2.08	0.52
1:1A:2612:C:C2'	1:1A:2613:A:H5"	2.39	0.52
5:1F:40:GLN:OE1	5:1F:184:TYR:HB2	2.09	0.52
8:1I:132:PRO:HG3	8:1I:138:ILE:HD11	1.90	0.52
11:1P:68:GLN:HG3	59:1P:310:HOH:O	2.10	0.52
12:1Q:32:TYR:CE2	12:1Q:111:GLU:HG3	2.44	0.52
15:1T:85:LYS:NZ	15:1T:87:ASP:OD2	2.42	0.52
20:1Y:14:LEU:CD2	20:1Y:82:PRO:HG3	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:33:LEU:HD21	21:1Z:90:VAL:CG2	2.18	0.52
21:1Z:128:VAL:HG22	21:1Z:129:SER:N	2.24	0.52
32:1a:139:G:H2'	32:1a:140:G:H8	1.74	0.52
32:1a:634:G:C2'	32:1a:635:C:H5'	2.39	0.52
32:1a:985:C:H2'	32:1a:986:C:H6	1.74	0.52
32:1a:1027:A:H2'	32:1a:1028:C:O4'	2.08	0.52
32:1a:1294:G:H21	32:1a:1295:U:H1'	1.73	0.52
33:1b:219:VAL:O	33:1b:222:ILE:HB	2.09	0.52
34:1c:61:ALA:C	34:1c:63:ASN:H	2.15	0.52
40:1i:10:ARG:O	40:1i:11:LYS:HB2	2.08	0.52
44:1m:37:THR:O	44:1m:39:ILE:HG13	2.09	0.52
46:1o:43:LEU:HD13	46:1o:53:HIS:HD2	1.75	0.52
46:1o:82:ILE:CD1	46:1o:88:ARG:HE	2.22	0.52
48:1q:6:LEU:HB2	48:1q:59:ILE:CG1	2.39	0.52
1:2A:40:C:O2'	1:2A:41:G:H5'	2.09	0.52
1:2A:880:C:O2'	1:2A:881:A:H5'	2.08	0.52
1:2A:934:C:H2'	1:2A:935:C:C2	2.44	0.52
1:2A:1568:U:O2'	1:2A:1569:G:H5'	2.08	0.52
1:2A:1890:G:O6	1:2A:1904:G:N2	2.42	0.52
1:2A:2698:U:H2'	1:2A:2699:U:O4'	2.09	0.52
1:2A:2753:A:H5'	31:29:22:ARG:HH12	1.74	0.52
1:2A:2829:A:H2'	1:2A:2829:A:N3	2.23	0.52
3:2D:123:ALA:HB3	3:2D:131:LEU:CD1	2.34	0.52
4:2E:4:ILE:HG22	59:2E:404:HOH:O	2.09	0.52
7:2H:154:PRO:HG3	7:2H:163:TYR:CD1	2.44	0.52
12:2Q:39:PRO:O	12:2Q:40:ALA:HB2	2.09	0.52
13:2R:56:LYS:NZ	13:2R:90:ARG:O	2.39	0.52
13:2R:84:ALA:HB3	13:2R:85:PRO:HD3	1.91	0.52
21:2Z:3:TYR:O	21:2Z:58:VAL:N	2.30	0.52
21:2Z:99:TYR:CD1	21:2Z:125:LEU:HA	2.45	0.52
28:26:26:ASN:O	28:26:29:ASN:N	2.42	0.52
32:2a:39:G:H4'	32:2a:531:A:H61	1.74	0.52
32:2a:728:C:O2'	32:2a:729:C:H5'	2.09	0.52
32:2a:954:G:OP1	45:2n:32:SER:N	2.33	0.52
32:2a:1132:C:O2	32:2a:1262:A:N6	2.19	0.52
33:2b:47:THR:HG22	33:2b:51:LEU:CD1	2.39	0.52
33:2b:100:GLY:N	33:2b:176:GLU:OE2	2.40	0.52
37:2f:7:ASN:O	37:2f:88:VAL:HA	2.09	0.52
39:2h:44:PHE:HZ	39:2h:138:TRP:HA	1.75	0.52
46:2o:56:LEU:O	46:2o:60:VAL:HG23	2.09	0.52
47:2p:60:LEU:HD21	47:2p:80:PHE:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:279:C:O2'	1:1A:280:G:H5'	2.09	0.52
1:1A:641:G:OP2	5:1F:106:ARG:HD3	2.09	0.52
1:1A:736:G:H4'	3:1D:218:ARG:NH2	2.24	0.52
1:1A:1018:G:H3'	1:1A:1019:C:C5'	2.39	0.52
1:1A:1711:A:C2'	1:1A:1712:G:H5'	2.40	0.52
1:1A:2134:U:C2'	1:1A:2135:A:H5'	2.37	0.52
1:1A:2700:U:P	1:1A:2731:G:H1	2.32	0.52
1:1A:2727:C:O2'	1:1A:2728:U:H5'	2.08	0.52
1:1A:2754:C:N4	1:1A:2774:G:H1	2.04	0.52
7:1H:70:THR:HG22	7:1H:74:ASN:ND2	2.23	0.52
9:1N:67:LEU:HB3	9:1N:88:GLU:HG2	1.91	0.52
10:1O:7:TYR:CE1	10:1O:20:MET:HE3	2.44	0.52
19:1X:4:ALA:HB1	19:1X:42:ALA:CA	2.39	0.52
24:12:9:GLN:HE22	24:12:56:GLN:CB	2.22	0.52
26:14:32:TYR:N	26:14:32:TYR:CD1	2.76	0.52
28:16:5:VAL:HG22	28:16:26:ASN:OD1	2.09	0.52
32:1a:78:G:N2	32:1a:86:U:O2	2.42	0.52
32:1a:419:G:C2'	32:1a:420:G:H5'	2.33	0.52
32:1a:1021:C:O2'	32:1a:1022:C:H5'	2.09	0.52
32:1a:1323:U:O2'	32:1a:1324:C:H5'	2.09	0.52
33:1b:87:ARG:NH2	33:1b:220:ASP:OD1	2.34	0.52
34:1c:8:ILE:O	34:1c:12:LEU:HG	2.08	0.52
34:1c:11:ARG:O	34:1c:16:ARG:N	2.41	0.52
34:1c:59:ARG:CG	34:1c:64:VAL:HG23	2.40	0.52
35:1d:75:PHE:CD1	35:1d:93:PHE:HZ	2.27	0.52
36:1e:100:VAL:O	36:1e:101:ILE:HD13	2.10	0.52
38:1g:46:ALA:CB	38:1g:121:ALA:HB2	2.32	0.52
40:1i:17:VAL:HG11	40:1i:80:GLY:C	2.34	0.52
41:1j:5:ARG:HD3	41:1j:73:ASP:CG	2.34	0.52
41:1j:38:ILE:O	41:1j:38:ILE:HG13	2.07	0.52
42:1k:27:ASN:OD1	42:1k:28:THR:N	2.37	0.52
51:1t:12:ALA:HA	51:1t:15:ARG:HB3	1.91	0.52
1:2A:277:G:H2'	1:2A:278:G:C8	2.37	0.52
1:2A:659:C:C2'	1:2A:660:G:H5'	2.40	0.52
1:2A:830:A:O2'	1:2A:831:G:H8	1.92	0.52
1:2A:966:G:H21	22:20:26:TYR:HE2	1.55	0.52
1:2A:1518:A:C2'	1:2A:1519:G:H5'	2.39	0.52
1:2A:2447:G:N3	1:2A:2609:A:H2	2.06	0.52
1:2A:2718:G:O2'	13:2R:68:ARG:HG2	2.09	0.52
1:2A:2725:A:H2'	1:2A:2725:A:N3	2.23	0.52
2:2B:79:C:O2'	2:2B:80:U:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:87:G:N2	2:2B:90:A:OP2	2.37	0.52
4:2E:5:LEU:HD11	4:2E:79:ARG:HB2	1.90	0.52
5:2F:31:HIS:NE2	5:2F:35:GLU:OE2	2.43	0.52
8:2I:38:LEU:O	8:2I:40:THR:N	2.42	0.52
9:2N:30:ILE:HG22	9:2N:34:LEU:HD13	1.92	0.52
10:2O:3:GLN:HB2	10:2O:4:PRO:HD2	1.92	0.52
14:2S:93:LYS:HD2	14:2S:95:HIS:HB2	1.90	0.52
16:2U:102:GLU:HG3	17:2V:2:PHE:CZ	2.44	0.52
19:2X:65:ARG:HB2	19:2X:69:TYR:O	2.08	0.52
22:20:38:VAL:HB	22:20:59:LEU:HB2	1.91	0.52
22:20:40:GLN:HG3	22:20:42:GLY:O	2.09	0.52
32:2a:428:A:OP2	32:2a:429:C:N4	2.43	0.52
33:2b:25:ASN:ND2	33:2b:193:ASP:HA	2.24	0.52
33:2b:71:VAL:O	33:2b:165:VAL:HG23	2.10	0.52
33:2b:222:ILE:HG13	33:2b:223:ILE:N	2.23	0.52
36:2e:52:PRO:O	36:2e:56:GLN:N	2.31	0.52
37:2f:24:GLU:HG3	37:2f:28:ARG:NE	2.25	0.52
37:2f:48:LEU:HD13	37:2f:52:ILE:HD12	1.90	0.52
44:2m:67:GLU:HG3	44:2m:68:GLY:H	1.74	0.52
50:2s:41:VAL:CG2	50:2s:42:PRO:HD2	2.38	0.52
1:1A:243:A:O2'	1:1A:410:U:OP1	2.21	0.52
1:1A:1872:G:O2'	3:1D:253:GLN:NE2	2.43	0.52
1:1A:2041:A:O2'	1:1A:2042:C:H5'	2.09	0.52
1:1A:2622:U:C4	27:15:3:LYS:HG2	2.45	0.52
4:1E:32:PRO:HD2	4:1E:50:GLY:O	2.10	0.52
5:1F:62:ARG:HD3	59:1F:404:HOH:O	2.07	0.52
13:1R:82:GLU:O	13:1R:85:PRO:HD2	2.09	0.52
16:1U:90:VAL:CG1	16:1U:95:LEU:HD12	2.37	0.52
19:1X:12:VAL:HG21	19:1X:27:THR:CG2	2.39	0.52
20:1Y:20:TYR:CD2	20:1Y:42:VAL:HA	2.45	0.52
21:1Z:102:LEU:HB3	21:1Z:104:PHE:CE1	2.44	0.52
24:12:65:ASN:OD1	24:12:69:ARG:HG3	2.09	0.52
28:16:39:TYR:HA	28:16:46:HIS:HA	1.92	0.52
32:1a:316:C:O2'	32:1a:1418:G:H1'	2.10	0.52
32:1a:1198:G:O3'	45:1n:5:ALA:HB1	2.10	0.52
32:1a:1200:C:H2'	32:1a:1201:U:C6	2.45	0.52
32:1a:1221:A:H62	32:1a:1281:A:H61	1.55	0.52
33:1b:133:LYS:HE2	33:1b:133:LYS:HA	1.90	0.52
34:1c:148:GLY:HA3	34:1c:172:ARG:O	2.10	0.52
35:1d:117:ALA:O	35:1d:121:VAL:HG23	2.10	0.52
36:1e:116:THR:HG23	36:1e:117:ASP:CG	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:50:ILE:HA	41:1j:60:ARG:HA	1.91	0.52
42:1k:13:GLN:HA	42:1k:75:TYR:O	2.08	0.52
48:1q:61:GLU:HA	48:1q:71:PHE:CE1	2.44	0.52
1:2A:80:G:N1	1:2A:100:A:OP2	2.42	0.52
1:2A:470:C:O2	1:2A:475:G:H1'	2.08	0.52
1:2A:1575:G:H8	1:2A:1575:G:O5'	1.92	0.52
1:2A:1778:G:H2'	1:2A:1779:A:H8	1.74	0.52
1:2A:2020:C:H4'	1:2A:2735:C:O2	2.09	0.52
1:2A:2110:U:H2'	1:2A:2111:G:C8	2.44	0.52
1:2A:2323:U:H2'	1:2A:2324:C:H5'	1.90	0.52
1:2A:2345:G:O6	22:20:74:ARG:NH2	2.42	0.52
3:2D:83:GLU:OE1	3:2D:104:TYR:OH	2.15	0.52
6:2G:88:ILE:HG13	6:2G:89:GLY:N	2.24	0.52
7:2H:55:PRO:HG2	7:2H:61:HIS:CE1	2.44	0.52
9:2N:111:PRO:O	9:2N:114:ARG:N	2.42	0.52
10:2O:2:ILE:HD12	10:2O:6:THR:HG21	1.91	0.52
10:2O:102:VAL:CG2	10:2O:121:VAL:HG22	2.39	0.52
11:2P:30:THR:OG1	59:2P:305:HOH:O	2.19	0.52
16:2U:6:THR:OG1	59:2U:301:HOH:O	2.19	0.52
16:2U:69:CYS:HB3	16:2U:74:LEU:CD1	2.40	0.52
19:2X:56:THR:HG22	19:2X:79:ALA:HB2	1.92	0.52
32:2a:192:G:C2'	32:2a:193:G:H5'	2.38	0.52
32:2a:272:G:C2'	32:2a:273:C:H5'	2.39	0.52
32:2a:372:G:C4'	47:2p:5:ARG:HD2	2.39	0.52
32:2a:857:C:H5"	43:2l:8:ASN:ND2	2.24	0.52
32:2a:1117:G:H2'	32:2a:1118:U:C5'	2.39	0.52
32:2a:1288:A:H62	32:2a:1313:G:N2	2.07	0.52
32:2a:1307:C:O3'	52:2u:17:THR:HG21	2.10	0.52
32:2a:1397:U:O2'	32:2a:1398:G:H5'	2.09	0.52
32:2a:1404:G:O2'	32:2a:1405:G:H5'	2.10	0.52
33:2b:120:ALA:O	33:2b:125:PRO:HG2	2.08	0.52
33:2b:155:LEU:HD21	33:2b:159:PRO:CG	2.38	0.52
36:2e:76:ILE:HB	36:2e:77:PRO:HD2	1.91	0.52
37:2f:22:GLU:O	37:2f:26:ILE:HG13	2.09	0.52
41:2j:5:ARG:N	41:2j:99:LYS:O	2.42	0.52
44:2m:9:ILE:O	44:2m:45:VAL:HG11	2.09	0.52
1:1A:322:A:N3	1:1A:342:C:O2'	2.42	0.52
1:1A:575:G:C2'	1:1A:576:U:H5'	2.40	0.52
1:1A:714:G:H5"	1:1A:715:G:OP2	2.09	0.52
1:1A:774:G:H5"	3:1D:13:ARG:HH21	1.74	0.52
1:1A:788:G:C4'	1:1A:1722:A:H5'	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1125:C:C2'	1:1A:1126:U:H5'	2.40	0.52
1:1A:1149:C:H2'	1:1A:1150:U:C6	2.45	0.52
1:1A:1784:C:C6	15:1T:96:ARG:NH1	2.77	0.52
1:1A:1848:U:O4	3:1D:154:LYS:HD2	2.10	0.52
1:1A:2081:A:O4'	1:1A:2513:G:H1'	2.09	0.52
1:1A:2292:C:O2'	1:1A:2293:G:H5'	2.10	0.52
1:1A:2307:U:OP2	14:1S:9:ARG:NH2	2.41	0.52
1:1A:2370:C:O2'	30:18:54:GLU:HG3	2.08	0.52
1:1A:2628:C:H2'	1:1A:2629:G:C5'	2.40	0.52
5:1F:61:GLY:HA2	5:1F:77:ASP:HB3	1.92	0.52
5:1F:183:VAL:HG13	5:1F:184:TYR:H	1.75	0.52
7:1H:113:VAL:CG1	7:1H:151:ILE:HD13	2.38	0.52
8:1I:9:LEU:HD12	8:1I:10:GLU:OE1	2.10	0.52
10:1O:11:ALA:HB2	10:1O:64:ARG:HH21	1.75	0.52
10:1O:79:PHE:CD1	10:1O:79:PHE:N	2.77	0.52
10:1O:104:ARG:CZ	15:1T:34:VAL:HG11	2.40	0.52
18:1W:38:TYR:HD2	27:15:41:PRO:HG3	1.74	0.52
21:1Z:101:PRO:C	21:1Z:102:LEU:HD12	2.35	0.52
32:1a:369:A:O2'	32:1a:370:A:H5'	2.09	0.52
32:1a:1037:C:H4'	32:1a:1038:A:H5"	1.91	0.52
32:1a:1115:C:H3'	32:1a:1115:C:C6	2.44	0.52
32:1a:1202:G:C2	32:1a:1203:G:H1'	2.45	0.52
32:1a:1207:A:H4'	50:1s:78:ARG:NE	2.24	0.52
32:1a:1482:G:OP2	59:1a:2062:HOH:O	2.19	0.52
43:1l:97:ARG:HB2	43:1l:98:TYR:CE1	2.45	0.52
44:1m:91:ARG:NH2	44:1m:97:PRO:HD2	2.25	0.52
44:1m:91:ARG:HH21	44:1m:97:PRO:HD2	1.74	0.52
45:1n:3:ARG:O	45:1n:6:LEU:N	2.39	0.52
51:1t:30:LYS:HB3	51:1t:34:LYS:NZ	2.24	0.52
51:1t:30:LYS:HA	51:1t:33:ILE:HD12	1.92	0.52
51:1t:80:ARG:O	51:1t:84:LEU:HB2	2.10	0.52
1:2A:28:U:H2'	1:2A:29:G:C8	2.45	0.52
1:2A:142:C:HO2'	19:2X:2:LYS:HZ3	1.54	0.52
1:2A:224:C:O2'	1:2A:225:C:H5'	2.09	0.52
1:2A:328:U:H2'	1:2A:329:U:C6	2.44	0.52
1:2A:336:C:O2'	1:2A:337:A:H5'	2.10	0.52
1:2A:462:C:O2'	1:2A:463:G:H5'	2.08	0.52
1:2A:640:G:P	5:2F:43:LYS:HZ1	2.32	0.52
1:2A:1260:G:OP1	16:2U:8:VAL:HG13	2.08	0.52
1:2A:2318:G:H4'	1:2A:2319:G:O5'	2.09	0.52
1:2A:2328:C:C2'	1:2A:2329:G:H5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2376:G:P	22:20:55:ARG:HG2	2.49	0.52
1:2A:2514:2MA:H4'	1:2A:2515:U:OP1	2.08	0.52
1:2A:2726:G:O2'	1:2A:2727:C:H5'	2.10	0.52
2:2B:42:C:H42	6:2G:91:ARG:HH12	1.58	0.52
2:2B:104:U:O2'	2:2B:105:A:H5'	2.09	0.52
4:2E:9:VAL:HG11	4:2E:25:VAL:HG12	1.91	0.52
4:2E:95:ILE:HG13	4:2E:96:PHE:CD1	2.45	0.52
4:2E:173:VAL:CG2	4:2E:185:LYS:HB2	2.40	0.52
5:2F:140:LEU:H	5:2F:140:LEU:HD12	1.75	0.52
6:2G:34:LEU:HD22	6:2G:159:VAL:HG21	1.91	0.52
7:2H:41:MET:SD	7:2H:54:ARG:HA	2.50	0.52
9:2N:74:ARG:O	9:2N:82:LEU:HA	2.09	0.52
15:2T:27:THR:HG22	15:2T:89:VAL:CG2	2.40	0.52
25:23:11:SER:N	25:23:31:LEU:HD21	2.24	0.52
31:29:14:CYS:SG	31:29:32:HIS:HB3	2.50	0.52
32:2a:233:C:C4'	48:2q:25:ARG:HH12	2.22	0.52
32:2a:483:A:C4'	32:2a:484:G:H5'	2.39	0.52
32:2a:789:C:C2'	32:2a:790:C:H5'	2.39	0.52
32:2a:1255:G:H3'	32:2a:1256:G:H8	1.73	0.52
32:2a:1302:C:H2'	32:2a:1303:C:O4'	2.10	0.52
32:2a:1425:G:C1'	32:2a:1426:G:OP1	2.58	0.52
32:2a:1447:G:H2'	32:2a:1448:G:H8	1.73	0.52
33:2b:200:ILE:HG22	33:2b:201:ILE:N	2.25	0.52
34:2c:153:VAL:O	34:2c:166:GLU:N	2.43	0.52
36:2e:82:VAL:CG2	36:2e:138:ALA:HA	2.36	0.52
36:2e:84:PHE:CB	36:2e:134:ALA:HB2	2.40	0.52
37:2f:9:VAL:HG22	37:2f:60:PHE:CE1	2.44	0.52
38:2g:95:ARG:HG2	38:2g:99:LEU:HG	1.92	0.52
51:2t:29:LYS:HD3	51:2t:66:ALA:HA	1.92	0.52
1:1A:170:A:H8	1:1A:170:A:OP2	1.92	0.52
1:1A:311:C:H42	1:1A:376:G:H1	1.58	0.52
1:1A:456:G:H5"	1:1A:457:U:OP2	2.10	0.52
1:1A:512:C:H1'	18:1W:53:SER:HA	1.92	0.52
1:1A:620:G:O4'	11:1P:12:ALA:HB2	2.10	0.52
1:1A:1072:A:C2	1:1A:2499:A:H5'	2.45	0.52
1:1A:1158:U:H2'	1:1A:1159:G:H8	1.71	0.52
1:1A:1674:U:O2	1:1A:2709:U:H4'	2.10	0.52
1:1A:2124:C:H2'	1:1A:2125:G:H5"	1.92	0.52
1:1A:2135:A:H3'	1:1A:2136:G:C8	2.44	0.52
1:1A:2376:G:O6	30:18:39:LYS:HD2	2.10	0.52
1:1A:2713:U:H4'	1:1A:2714:C:OP1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2799:C:O2'	1:1A:2800:C:H5'	2.10	0.52
3:1D:57:GLY:N	59:1D:413:HOH:O	2.17	0.52
6:1G:110:ALA:O	6:1G:113:ARG:N	2.43	0.52
11:1P:46:LYS:N	59:1P:313:HOH:O	2.26	0.52
21:1Z:9:TYR:CZ	21:1Z:61:LEU:HD23	2.44	0.52
22:10:46:LYS:HD2	22:10:78:TYR:HE1	1.66	0.52
28:16:19:ARG:HH21	28:16:52:VAL:HG21	1.73	0.52
32:1a:282:G:C2'	32:1a:283:U:H5'	2.39	0.52
32:1a:388:G:O2'	32:1a:389:A:H5'	2.09	0.52
32:1a:935:U:N3	32:1a:938:U:OP2	2.41	0.52
32:1a:1048:U:H4'	32:1a:1049:C:O5'	2.10	0.52
32:1a:1494:G:N2	32:1a:1497:MA6:OP2	2.43	0.52
38:1g:133:GLY:HA2	38:1g:136:LYS:CB	2.40	0.52
39:1h:65:TYR:HD1	39:1h:65:TYR:N	2.07	0.52
47:1p:38:TYR:HE1	47:1p:50:LYS:CB	2.22	0.52
1:2A:385:U:O2'	1:2A:386:G:H5'	2.10	0.52
1:2A:731:A:N1	1:2A:833:U:H1'	2.23	0.52
1:2A:908:G:H4'	2:2B:79:C:H4'	1.90	0.52
1:2A:992:G:C2'	1:2A:993:C:H5'	2.40	0.52
1:2A:996:G:O6	1:2A:997:A:N6	2.42	0.52
1:2A:1240:C:H2'	1:2A:1241:G:C8	2.45	0.52
1:2A:2140:A:N1	1:2A:2191:A:H2'	2.24	0.52
1:2A:2404:A:O3'	11:2P:63:PRO:HA	2.10	0.52
1:2A:2478:C:C2'	1:2A:2479:G:H5'	2.39	0.52
1:2A:2863:G:O2'	1:2A:2864:C:H5'	2.10	0.52
10:2O:13:ASN:C	10:2O:15:GLY:H	2.18	0.52
13:2R:103:ARG:HH12	13:2R:110:PRO:HD3	1.73	0.52
15:2T:18:ASP:OD1	15:2T:19:LEU:HG	2.09	0.52
19:2X:28:PHE:CE1	19:2X:92:LEU:HD21	2.44	0.52
30:28:16:ILE:CD1	30:28:22:VAL:HG22	2.40	0.52
32:2a:107:G:H1'	32:2a:350:G:H5'	1.91	0.52
32:2a:753:G:H4'	32:2a:1491:A:H4'	1.92	0.52
32:2a:874:C:O2'	32:2a:875:C:H5'	2.09	0.52
32:2a:1089:G:O2'	32:2a:1090:C:H5'	2.10	0.52
32:2a:1152:A:H8	32:2a:1152:A:O5'	1.92	0.52
32:2a:1169:G:H2'	32:2a:1170:A:C8	2.45	0.52
36:2e:143:ARG:NE	39:2h:77:GLU:OE2	2.35	0.52
37:2f:21:LEU:HG	37:2f:25:ILE:HD12	1.90	0.52
37:2f:22:GLU:CD	37:2f:82:ARG:HE	2.17	0.52
38:2g:133:GLY:HA2	38:2g:136:LYS:HG3	1.92	0.52
40:2i:127:LYS:HG3	40:2i:127:LYS:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:95:GLY:O	44:2m:110:ARG:HG3	2.09	0.52
1:1A:16:G:HO2'	16:1U:25:TRP:CD1	2.27	0.52
1:1A:211:A:O2'	1:1A:446:C:O2	2.22	0.52
1:1A:371:G:O2'	1:1A:372:G:H5'	2.10	0.52
1:1A:2029:C:H2'	1:1A:2030:G:H8	1.73	0.52
1:1A:2335:C:H5"	1:1A:2336:G:H5"	1.92	0.52
1:1A:2594:G:C2'	1:1A:2595:U:H5'	2.40	0.52
2:1B:8:U:O2'	14:1S:40:ILE:HD13	2.09	0.52
4:1E:14:ILE:HB	15:1T:14:TYR:HE2	1.65	0.52
4:1E:51:PHE:N	4:1E:75:VAL:HG21	2.25	0.52
6:1G:138:GLN:HB3	6:1G:153:ARG:O	2.10	0.52
7:1H:90:LYS:O	7:1H:161:GLY:N	2.34	0.52
10:1O:7:TYR:HE1	10:1O:20:MET:HB2	1.75	0.52
11:1P:97:PRO:O	11:1P:101:VAL:HG23	2.10	0.52
14:1S:5:THR:O	14:1S:8:GLU:N	2.42	0.52
15:1T:94:ALA:HB1	15:1T:99:LEU:HD21	1.91	0.52
21:1Z:146:ILE:CG1	21:1Z:174:VAL:HG12	2.40	0.52
24:12:68:ARG:C	24:12:70:GLN:H	2.17	0.52
30:18:58:ILE:HG22	30:18:58:ILE:O	2.10	0.52
32:1a:45:G:H2'	32:1a:46:U:O4'	2.10	0.52
32:1a:1200:C:P	45:1n:9:LYS:HZ3	2.33	0.52
32:1a:1295:U:P	50:1s:4:SER:HA	2.50	0.52
34:1c:124:ILE:HD11	34:1c:189:ALA:CB	2.39	0.52
35:1d:82:ALA:HA	35:1d:85:LYS:CB	2.35	0.52
35:1d:165:MET:O	35:1d:166:LYS:C	2.52	0.52
36:1e:33:VAL:HG22	36:1e:34:VAL:N	2.25	0.52
38:1g:126:ASP:HB3	38:1g:131:LYS:O	2.09	0.52
41:1j:26:ALA:HA	41:1j:29:ARG:HH21	1.75	0.52
41:1j:51:ARG:HB3	45:1n:45:ARG:NH1	2.25	0.52
46:1o:63:ARG:O	46:1o:67:LEU:HG	2.09	0.52
51:1t:31:SER:O	51:1t:35:THR:OG1	2.28	0.52
51:1t:92:LEU:O	51:1t:96:GLY:N	2.42	0.52
52:1u:5:ASP:OD1	52:1u:6:ARG:N	2.43	0.52
1:2A:264:U:O2'	1:2A:265:C:H5'	2.09	0.52
1:2A:308:C:O2'	1:2A:309:C:H5'	2.10	0.52
1:2A:543:U:H2'	1:2A:544:G:O4'	2.10	0.52
1:2A:892:C:H42	1:2A:975:G:H1	1.56	0.52
1:2A:992:G:OP2	59:2A:3885:HOH:O	2.19	0.52
1:2A:1068:U:H2'	1:2A:1069:G:O4'	2.09	0.52
1:2A:1124:C:H3'	1:2A:1125:C:C5'	2.40	0.52
1:2A:1711:A:O2'	1:2A:1712:G:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2171:U:H2'	1:2A:2172:G:C8	2.44	0.52
1:2A:2355:U:H3'	28:26:37:ARG:O	2.10	0.52
1:2A:2573:U:H2'	1:2A:2574:U:C5'	2.40	0.52
3:2D:94:LEU:HD23	3:2D:104:TYR:CD1	2.45	0.52
3:2D:133:LEU:HB3	3:2D:173:VAL:HG21	1.92	0.52
6:2G:121:ASN:OD1	6:2G:123:ASN:HB2	2.10	0.52
7:2H:68:THR:HG22	7:2H:72:ILE:HD11	1.92	0.52
8:2I:31:LEU:N	8:2I:32:PRO:HD2	2.25	0.52
14:2S:49:VAL:HG21	14:2S:77:ALA:HB2	1.92	0.52
14:2S:84:GLN:HA	14:2S:111:GLU:HB2	1.90	0.52
20:2Y:7:VAL:CG1	20:2Y:8:LYS:H	2.19	0.52
32:2a:116:G:H4'	32:2a:308:C:O2'	2.10	0.52
32:2a:382:C:H2'	32:2a:383:U:C5'	2.39	0.52
32:2a:1207:A:H3'	44:2m:103:THR:OG1	2.09	0.52
32:2a:1273:G:H4'	40:2i:38:GLN:O	2.10	0.52
32:2a:1485:A:H4'	59:2a:1936:HOH:O	2.08	0.52
33:2b:187:LEU:O	33:2b:188:ALA:HB2	2.10	0.52
35:2d:76:ARG:O	35:2d:79:PHE:HB3	2.10	0.52
1:1A:868:U:OP1	59:1A:4348:HOH:O	2.19	0.52
1:1A:928:G:H1	1:1A:939:C:H42	1.57	0.52
1:1A:2134:U:H2'	1:1A:2135:A:C5'	2.38	0.52
1:1A:2310:G:N2	1:1A:2328:C:O2	2.30	0.52
1:1A:2400:G:H5"	1:1A:2401:U:O4'	2.09	0.52
2:1B:24:G:O2'	59:1B:308:HOH:O	2.19	0.52
3:1D:158:ALA:HB3	3:1D:161:THR:HG21	1.92	0.52
25:13:8:LEU:HD12	25:13:28:LEU:HB3	1.92	0.52
26:14:16:CYS:CB	26:14:36:CYS:HB3	2.38	0.52
32:1a:134:G:O2'	32:1a:135:A:H5'	2.10	0.52
32:1a:182:C:H2'	32:1a:183:C:C6	2.45	0.52
32:1a:261:G:O3'	48:1q:66:SER:HA	2.09	0.52
32:1a:521:G:O2'	32:1a:522:G:H5'	2.08	0.52
32:1a:663:C:O2'	32:1a:664:C:H5'	2.10	0.52
32:1a:861:C:N4	32:1a:862:U:O4	2.43	0.52
32:1a:951:G:P	32:1a:952:A:H2'	2.49	0.52
32:1a:1016:G:H2'	32:1a:1017:G:H8	1.74	0.52
33:1b:187:LEU:HD21	33:1b:204:ASN:O	2.10	0.52
36:1e:95:ALA:HB1	36:1e:96:PRO:CD	2.40	0.52
39:1h:32:LYS:HA	39:1h:35:ILE:HD12	1.91	0.52
39:1h:86:ILE:HB	39:1h:133:LEU:HD22	1.91	0.52
40:1i:3:GLN:HE21	40:1i:18:PHE:HD2	1.56	0.52
47:1p:59:TRP:O	47:1p:62:VAL:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:1q:3:LYS:HB2	48:1q:60:ILE:HD11	1.92	0.52
50:1s:66:MET:O	50:1s:66:MET:HG3	2.09	0.52
1:2A:486:C:C2'	1:2A:487:C:H5'	2.40	0.52
1:2A:773:A:N3	3:2D:9:TYR:HE2	2.08	0.52
1:2A:887:A:O2'	1:2A:888:G:H5'	2.09	0.52
1:2A:902:C:O2'	1:2A:903:C:P	2.67	0.52
1:2A:1002:U:H5'	12:2Q:14:ARG:HD3	1.92	0.52
1:2A:1641:A:C2'	1:2A:1642:A:H5'	2.40	0.52
1:2A:1829:G:N7	3:2D:179:SER:OG	2.35	0.52
1:2A:1910:A:H2'	1:2A:1911:A:C8	2.45	0.52
1:2A:2125:G:N2	1:2A:2126:C:C2	2.78	0.52
1:2A:2152:G:OP1	1:2A:2153:U:H3'	2.10	0.52
1:2A:2305:C:P	14:2S:89:ARG:HH22	2.32	0.52
1:2A:2357:A:H5'	1:2A:2394:G:O4'	2.10	0.52
1:2A:2439:G:H5"	1:2A:2440:G:OP1	2.10	0.52
1:2A:2723:U:O2'	1:2A:2724:A:OP2	2.27	0.52
59:2A:3856:HOH:O	17:2V:78:LYS:N	2.43	0.52
3:2D:123:ALA:CB	3:2D:131:LEU:HD11	2.38	0.52
4:2E:48:GLN:HE21	4:2E:78:LEU:HG	1.75	0.52
6:2G:61:ALA:HA	6:2G:66:GLN:O	2.10	0.52
6:2G:67:LYS:HG3	6:2G:68:PRO:HD2	1.92	0.52
8:2I:31:LEU:HD21	8:2I:38:LEU:HB2	1.91	0.52
8:2I:125:GLU:OE2	8:2I:143:SER:HB2	2.09	0.52
12:2Q:25:ASP:O	12:2Q:102:VAL:HG23	2.09	0.52
12:2Q:42:ILE:O	12:2Q:95:ALA:N	2.41	0.52
12:2Q:103:MET:SD	12:2Q:125:LEU:HD13	2.50	0.52
21:2Z:40:ASP:CG	21:2Z:42:VAL:HG12	2.35	0.52
21:2Z:97:GLU:CG	21:2Z:125:LEU:HD11	2.38	0.52
30:28:61:LEU:C	30:28:63:PRO:HD3	2.35	0.52
32:2a:143:G:H1	32:2a:169:C:N4	2.08	0.52
32:2a:190:U:O2	48:2q:63:ARG:NH2	2.42	0.52
32:2a:190:U:O4	48:2q:62:SER:HB3	2.10	0.52
32:2a:433:U:H2'	32:2a:434:G:H5'	1.91	0.52
32:2a:664:C:C2'	32:2a:665:C:H5'	2.40	0.52
32:2a:1113:A:O2'	40:2i:3:GLN:NE2	2.40	0.52
32:2a:1135:A:O2'	32:2a:1136:C:H5'	2.10	0.52
32:2a:1148:C:N4	32:2a:1153:G:H1	2.05	0.52
41:2j:19:SER:O	41:2j:23:ILE:HG12	2.10	0.52
42:2k:99:GLN:HA	42:2k:105:VAL:HG11	1.92	0.52
49:2r:28:GLU:O	49:2r:29:PHE:HB3	2.09	0.52
51:2t:73:HIS:HB3	51:2t:76:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:593:A:O2'	17:1V:78:LYS:HE2	2.10	0.52
1:1A:736:G:O2'	3:1D:218:ARG:NH1	2.43	0.52
1:1A:822:G:N7	1:1A:839:A:O2'	2.40	0.52
1:1A:1150:U:C2'	1:1A:1151:G:H8	2.19	0.52
1:1A:1270:G:OP1	17:1V:86:GLY:HA3	2.10	0.52
1:1A:1351:C:O2'	1:1A:1352:A:H5'	2.09	0.52
1:1A:1913:C:C2'	1:1A:1914:C:H5'	2.40	0.52
1:1A:2019:G:O2'	1:1A:2736:C:O2'	2.13	0.52
1:1A:2760:A:H2'	1:1A:2761:A:O4'	2.09	0.52
4:1E:54:GLN:OE1	4:1E:76:ARG:NH1	2.42	0.52
7:1H:9:ILE:HD11	7:1H:69:ARG:HG2	1.91	0.52
10:1O:26:LYS:HG2	10:1O:26:LYS:O	2.10	0.52
10:1O:78:ARG:C	10:1O:79:PHE:HD1	2.17	0.52
16:1U:52:ARG:HG3	16:1U:55:ARG:CD	2.38	0.52
17:1V:65:GLY:CA	17:1V:91:TYR:HE1	2.23	0.52
20:1Y:44:ILE:HD13	20:1Y:64:GLU:HG2	1.92	0.52
23:11:72:GLU:O	23:11:76:ARG:HG3	2.10	0.52
32:1a:696:A:O2'	32:1a:697:G:H5'	2.10	0.52
32:1a:1009:C:N4	32:1a:1014:G:N1	2.54	0.52
32:1a:1106:A:H2	41:1j:39:PRO:HD2	1.74	0.52
33:1b:52:GLU:O	33:1b:56:ARG:NH1	2.43	0.52
33:1b:124:SER:HB3	33:1b:125:PRO:HD3	1.89	0.52
35:1d:173:TRP:CD1	35:1d:189:PRO:HG3	2.44	0.52
39:1h:44:PHE:HB3	39:1h:80:ILE:CG1	2.39	0.52
45:1n:27:CYS:SG	45:1n:28:GLY:N	2.82	0.52
48:1q:41:LYS:C	48:1q:42:TYR:HD1	2.18	0.52
49:1r:53:ARG:NH2	49:1r:59:SER:HA	2.24	0.52
1:2A:9:G:H1'	1:2A:2811:A:C2	2.45	0.52
1:2A:82:A:N1	1:2A:96:G:O2'	2.33	0.52
1:2A:227:U:H2'	1:2A:228:G:O4'	2.10	0.52
1:2A:323:A:H1'	1:2A:342:C:H1'	1.91	0.52
1:2A:358:C:H6	1:2A:358:C:O5'	1.93	0.52
1:2A:594:A:OP1	59:2A:3887:HOH:O	2.19	0.52
1:2A:616:U:H3	1:2A:709:G:H1	1.56	0.52
1:2A:952:U:OP1	12:2Q:24:GLY:N	2.32	0.52
1:2A:1104:G:H5"	1:2A:1105:U:OP2	2.09	0.52
1:2A:1125:C:H2'	1:2A:1126:U:C6	2.45	0.52
1:2A:1259:G:C2'	1:2A:1260:G:H5'	2.40	0.52
1:2A:1311:G:P	18:2W:15:ARG:HH22	2.33	0.52
1:2A:1349:C:O2'	1:2A:1350:C:H5'	2.09	0.52
1:2A:1354:G:OP1	59:2A:3878:HOH:O	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1704:C:OP1	4:2E:135:HIS:NE2	2.41	0.52
1:2A:2132:C:H42	1:2A:2168:G:H22	1.57	0.52
1:2A:2295:C:O2'	1:2A:2299:A:N1	2.42	0.52
1:2A:2522:U:C2'	1:2A:2523:C:H5'	2.39	0.52
1:2A:2558:U:H2'	1:2A:2559:G:H8	1.74	0.52
1:2A:2852:G:H1	1:2A:2883:C:N4	2.07	0.52
2:2B:18:G:H8	2:2B:18:G:O5'	1.93	0.52
5:2F:81:PRO:HB3	5:2F:87:GLY:O	2.10	0.52
7:2H:69:ARG:HA	7:2H:72:ILE:HD12	1.91	0.52
7:2H:70:THR:O	7:2H:74:ASN:ND2	2.42	0.52
11:2P:121:LYS:HG3	11:2P:122:PRO:HD2	1.92	0.52
15:2T:26:ASP:OD1	15:2T:91:ARG:HA	2.09	0.52
18:2W:56:ALA:O	18:2W:60:ASN:HB2	2.09	0.52
21:2Z:151:HIS:CE1	21:2Z:170:THR:HB	2.45	0.52
32:2a:139:G:O2'	32:2a:140:G:H5'	2.10	0.52
32:2a:543:A:H5"	32:2a:544:U:H3'	1.91	0.52
32:2a:568:G:H2'	32:2a:569:G:H8	1.74	0.52
32:2a:621:G:H2'	32:2a:622:G:C8	2.39	0.52
32:2a:658:G:H4'	49:2r:81:PHE:CE2	2.44	0.52
32:2a:876:G:N2	32:2a:879:A:OP2	2.40	0.52
32:2a:929:G:H2'	32:2a:930:U:O4'	2.10	0.52
32:2a:1023:U:H2'	32:2a:1024:A:H5"	1.92	0.52
33:2b:231:GLU:CB	33:2b:232:PRO:CD	2.87	0.52
38:2g:122:HIS:O	38:2g:125:MET:HB2	2.09	0.52
40:2i:18:PHE:O	40:2i:61:ALA:HA	2.10	0.52
41:2j:33:GLN:O	41:2j:74:ILE:HG13	2.09	0.52
42:2k:76:GLY:O	42:2k:78:GLN:HG3	2.09	0.52
47:2p:27:LYS:HG3	47:2p:30:GLY:N	2.25	0.52
1:1A:253:A:H1'	1:1A:254:G:O4'	2.10	0.52
1:1A:501:G:N2	1:1A:503:A:H3'	2.25	0.52
1:1A:547:C:C2'	1:1A:548:U:H5'	2.40	0.52
1:1A:1813:A:H5'	1:1A:2619:G:H4'	1.91	0.52
1:1A:1840:A:H2'	1:1A:1841:G:C5'	2.39	0.52
1:1A:2402:G:C6	1:1A:2438:C:H1'	2.44	0.52
1:1A:2597:C:H5'	59:1A:4231:HOH:O	2.09	0.52
3:1D:206:LEU:HD22	3:1D:211:ARG:HG2	1.93	0.52
6:1G:105:LYS:NZ	6:1G:143:GLU:OE2	2.40	0.52
12:1Q:43:THR:OG1	12:1Q:46:GLN:HG3	2.10	0.52
12:1Q:137:TYR:O	12:1Q:141:GLN:HG2	2.09	0.52
14:1S:47:THR:HG22	14:1S:48:LEU:N	2.25	0.52
21:1Z:8:TYR:N	21:1Z:8:TYR:CD1	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:11:8:SER:HB3	23:11:66:HIS:CE1	2.44	0.52
32:1a:73:C:H2'	32:1a:74:G:O4'	2.10	0.52
32:1a:206:G:O2'	32:1a:207:G:H5'	2.09	0.52
32:1a:505:G:O5'	43:1l:73:GLU:HG2	2.11	0.52
32:1a:1117:G:H2'	32:1a:1117:G:N3	2.25	0.52
32:1a:1436:G:OP2	59:1a:2063:HOH:O	2.19	0.52
34:1c:32:LEU:HD22	34:1c:59:ARG:CD	2.40	0.52
35:1d:22:LYS:O	35:1d:113:SER:HB3	2.10	0.52
35:1d:161:ASN:O	35:1d:165:MET:HG2	2.10	0.52
37:1f:53:ALA:HB2	37:1f:86:ARG:HD3	1.92	0.52
38:1g:8:GLU:OE1	38:1g:8:GLU:N	2.38	0.52
38:1g:20:ASP:OD2	38:1g:22:LEU:HB3	2.10	0.52
40:1i:106:ALA:C	40:1i:108:VAL:HG23	2.35	0.52
47:1p:7:ALA:O	47:1p:17:TYR:HA	2.10	0.52
48:1q:40:LYS:HG2	48:1q:42:TYR:HE1	1.74	0.52
50:1s:30:LEU:HD12	50:1s:48:THR:O	2.09	0.52
1:2A:712:G:OP2	59:2A:3881:HOH:O	2.19	0.52
1:2A:897:U:O2'	25:23:42:ALA:O	2.25	0.52
1:2A:1110:U:H1'	1:2A:1111:U:P	2.50	0.52
1:2A:1120:C:OP1	12:2Q:59:ARG:HD3	2.10	0.52
1:2A:1701:A:H2'	1:2A:1702:C:H5'	1.90	0.52
3:2D:142:VAL:HG12	3:2D:163:ALA:O	2.09	0.52
4:2E:39:PRO:HD3	4:2E:45:THR:OG1	2.10	0.52
4:2E:51:PHE:C	4:2E:75:VAL:HG22	2.34	0.52
7:2H:140:LYS:O	7:2H:144:VAL:HG23	2.09	0.52
11:2P:68:GLN:OE1	30:28:12:LYS:HG2	2.09	0.52
25:23:45:GLY:O	25:23:49:LYS:N	2.40	0.52
31:29:7:VAL:O	31:29:7:VAL:HG23	2.10	0.52
32:2a:320:G:OP1	51:2t:70:SER:HB2	2.10	0.52
32:2a:476:G:O2'	32:2a:477:G:H5'	2.10	0.52
32:2a:522:G:OP1	43:2l:115:LYS:N	2.43	0.52
32:2a:922:G:H5"	32:2a:923:G:OP2	2.09	0.52
33:2b:127:ILE:O	33:2b:128:GLU:HB3	2.10	0.52
35:2d:25:ARG:O	35:2d:28:SER:N	2.43	0.52
35:2d:105:VAL:HG21	35:2d:121:VAL:CG2	2.40	0.52
40:2i:106:ALA:O	40:2i:108:VAL:HG23	2.10	0.52
45:2n:4:LYS:O	45:2n:7:ILE:HG12	2.10	0.52
49:2r:43:PHE:CD1	49:2r:43:PHE:N	2.76	0.52
50:2s:49:ILE:HG22	50:2s:51:VAL:HG23	1.92	0.52
1:1A:1094:C:H2'	1:1A:1095:A:H5'	1.92	0.51
1:1A:1484:A:H2'	1:1A:1485:G:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1597:C:O2'	1:1A:1598:G:H5'	2.10	0.51
1:1A:2653:G:H4'	9:1N:78:TYR:CE2	2.45	0.51
1:1A:2679:G:O2'	1:1A:2680:G:H5'	2.10	0.51
1:1A:2778:G:H2'	1:1A:2778:G:N3	2.24	0.51
4:1E:38:THR:O	4:1E:43:GLY:N	2.43	0.51
6:1G:133:LEU:HD13	6:1G:135:LEU:CD1	2.39	0.51
17:1V:65:GLY:C	17:1V:66:ARG:HG3	2.35	0.51
18:1W:82:LEU:HB2	18:1W:98:LYS:HB2	1.92	0.51
21:1Z:3:TYR:CE2	21:1Z:50:GLN:HB3	2.45	0.51
21:1Z:24:LEU:HD11	21:1Z:85:HIS:N	2.26	0.51
22:10:32:ARG:H	22:10:35:ASN:HD22	1.54	0.51
26:14:52:THR:HG22	26:14:52:THR:O	2.09	0.51
32:1a:670:U:O2'	32:1a:671:A:OP2	2.21	0.51
32:1a:714:G:C2'	32:1a:715:G:H5'	2.40	0.51
32:1a:806:C:OP2	59:1a:2061:HOH:O	2.19	0.51
32:1a:1263:U:P	32:1a:1264:C:H41	2.31	0.51
32:1a:1304:C:H4'	32:1a:1305:G:OP1	2.10	0.51
32:1a:1370:G:H2'	32:1a:1371:C:C6	2.46	0.51
32:1a:1408:U:O2'	32:1a:1409:C:H5'	2.09	0.51
33:1b:85:ALA:O	33:1b:89:GLY:N	2.42	0.51
35:1d:114:ARG:HA	35:1d:117:ALA:CB	2.39	0.51
38:1g:115:ARG:HB2	38:1g:118:VAL:CG2	2.40	0.51
39:1h:16:ALA:HA	39:1h:19:VAL:HG22	1.91	0.51
39:1h:113:SER:HB2	39:1h:134:ILE:HD11	1.91	0.51
41:1j:62:HIS:HB3	45:1n:59:ALA:CB	2.33	0.51
43:1l:56:ALA:CB	43:1l:100:ILE:HD11	2.35	0.51
48:1q:50:LYS:HG3	48:1q:51:TYR:N	2.25	0.51
48:1q:78:GLU:HG2	48:1q:79:SER:N	2.25	0.51
1:2A:137:G:O2'	1:2A:138:A:OP2	2.28	0.51
1:2A:241:C:H2'	1:2A:242:G:C5'	2.40	0.51
1:2A:736:G:N2	1:2A:819:U:O2	2.43	0.51
1:2A:819:U:O2'	3:2D:48:ARG:HD3	2.10	0.51
1:2A:2041:A:O2'	1:2A:2042:C:H5'	2.09	0.51
1:2A:2064:C:H1'	1:2A:2791:U:O4	2.10	0.51
1:2A:2184:C:H2'	1:2A:2185:C:C1'	2.40	0.51
8:2I:95:LYS:NZ	8:2I:99:GLU:OE2	2.36	0.51
13:2R:55:ALA:HA	13:2R:80:PHE:CE1	2.44	0.51
15:2T:122:ASP:O	15:2T:126:ALA:N	2.35	0.51
21:2Z:4:ARG:NH2	21:2Z:66:SER:OG	2.32	0.51
23:21:2:SER:CB	23:21:46:LEU:HD12	2.30	0.51
26:24:30:GLU:O	26:24:31:ILE:HG13	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:26:13:CYS:SG	28:26:47:THR:HG21	2.49	0.51
32:2a:645:G:O2'	32:2a:646:G:H5'	2.11	0.51
32:2a:850:A:N3	32:2a:850:A:H2'	2.25	0.51
32:2a:972:A:C2	45:2n:5:ALA:HB2	2.45	0.51
32:2a:984:A:H1'	32:2a:1004:U:C2	2.45	0.51
32:2a:1105:U:H2'	32:2a:1106:A:H5'	1.93	0.51
32:2a:1324:C:C1'	40:2i:124:GLN:HG3	2.39	0.51
32:2a:1331:A:H2'	32:2a:1331:A:N3	2.24	0.51
32:2a:1368:G:H2'	32:2a:1369:G:C8	2.46	0.51
37:2f:82:ARG:HB2	37:2f:85:VAL:CB	2.41	0.51
39:2h:14:ARG:O	39:2h:18:ARG:HG2	2.10	0.51
40:2i:19:LEU:CD1	40:2i:84:ALA:HB3	2.38	0.51
40:2i:79:LEU:O	40:2i:83:ARG:N	2.40	0.51
49:2r:42:ARG:O	49:2r:44:LEU:N	2.37	0.51
49:2r:51:LEU:HD22	49:2r:55:ARG:HD3	1.92	0.51
1:1A:275:C:H5"	8:1I:45:LYS:HD2	1.92	0.51
1:1A:384:G:O2'	1:1A:385:U:H5'	2.10	0.51
1:1A:790:G:H2'	1:1A:791:G:H5'	1.92	0.51
1:1A:903:C:H5'	22:10:69:PHE:CD2	2.43	0.51
1:1A:1531:A:O2'	1:1A:1532:G:H5'	2.09	0.51
1:1A:1608:A:H2'	1:1A:1609:G:C8	2.46	0.51
1:1A:1685:U:O2'	1:1A:1686:C:H5'	2.11	0.51
1:1A:1818:C:OP1	3:1D:222:ARG:NH2	2.43	0.51
1:1A:1922:A:C2'	1:1A:1923:C:H5'	2.39	0.51
1:1A:2121:G:O2'	1:1A:2122:G:H5'	2.10	0.51
1:1A:2796:C:H1'	4:1E:37:ARG:NH1	2.25	0.51
3:1D:142:VAL:HG21	3:1D:191:ALA:CB	2.40	0.51
6:1G:82:LEU:HD23	6:1G:83:ARG:O	2.09	0.51
22:10:43:THR:O	22:10:43:THR:HG23	2.10	0.51
23:11:67:ILE:N	23:11:68:PRO:HD2	2.25	0.51
32:1a:179:G:H1	32:1a:200:C:H42	1.56	0.51
32:1a:181:C:O2	51:1t:85:MET:HE1	2.09	0.51
32:1a:240:U:H4'	32:1a:241:C:C5'	2.39	0.51
32:1a:555:U:OP1	32:1a:803:A:O2'	2.26	0.51
32:1a:676:U:H2'	32:1a:678:A:OP2	2.10	0.51
32:1a:859:G:C2'	32:1a:860:C:H5'	2.41	0.51
32:1a:1039:U:H3'	59:1a:2067:HOH:O	2.10	0.51
32:1a:1310:C:OP1	44:1m:28:ALA:HB2	2.09	0.51
33:1b:207:ALA:O	33:1b:210:SER:N	2.44	0.51
35:1d:22:LYS:O	35:1d:112:VAL:HG23	2.10	0.51
35:1d:199:ASN:CG	35:1d:202:LEU:HD23	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:1m:4:ILE:HD13	44:1m:9:ILE:CG2	2.30	0.51
48:1q:62:SER:OG	48:1q:72:ARG:HG3	2.10	0.51
1:2A:141:G:H4'	19:2X:35:THR:HG21	1.91	0.51
1:2A:172:C:O2'	1:2A:205:G:N3	2.39	0.51
1:2A:282:G:O6	59:2A:3886:HOH:O	2.19	0.51
1:2A:829:A:H1'	1:2A:1809:U:O4'	2.10	0.51
1:2A:966:G:H4'	1:2A:2280:A:C5	2.45	0.51
1:2A:1012:G:H2'	1:2A:1013:U:C6	2.46	0.51
1:2A:1077:A:O2'	1:2A:1079:G:OP2	2.23	0.51
1:2A:1791:C:H3'	1:2A:1792:A:H5"	1.93	0.51
1:2A:2328:C:O2'	1:2A:2329:G:H5'	2.11	0.51
1:2A:2330:G:H22	14:2S:3:ARG:HD2	1.75	0.51
6:2G:19:LEU:HG	6:2G:175:LEU:CD2	2.40	0.51
11:2P:131:SER:O	11:2P:134:ALA:HB3	2.10	0.51
20:2Y:51:VAL:HG13	20:2Y:56:PRO:HA	1.90	0.51
26:24:47:GLN:O	26:24:48:ARG:HB2	2.11	0.51
32:2a:90:U:H2'	32:2a:91:G:C8	2.45	0.51
32:2a:771:A:C2'	32:2a:772:U:H5'	2.39	0.51
32:2a:950:C:H4'	41:2j:57:LYS:HB2	1.91	0.51
32:2a:953:A:H4'	32:2a:954:G:C5'	2.24	0.51
32:2a:1059:C:O2'	32:2a:1060:G:H5'	2.10	0.51
32:2a:1130:C:H2'	32:2a:1131:U:H5'	1.93	0.51
32:2a:1266:C:H3'	32:2a:1267:A:H8	1.75	0.51
34:2c:71:ALA:CB	34:2c:106:VAL:HB	2.28	0.51
34:2c:157:ILE:HD12	34:2c:164:ARG:HE	1.75	0.51
38:2g:78:ARG:N	38:2g:85:TYR:O	2.43	0.51
50:2s:50:ALA:HB1	50:2s:57:HIS:O	2.10	0.51
1:1A:639:A:H4'	5:1F:182:ASN:HD22	1.74	0.51
1:1A:657:A:H1'	1:1A:2414:C:O3'	2.11	0.51
1:1A:675:G:OP1	30:18:19:SER:OG	2.16	0.51
1:1A:1760:G:O6	59:1A:4347:HOH:O	2.19	0.51
1:1A:1765:G:H3'	1:1A:1766:A:C5'	2.39	0.51
1:1A:1773:C:O2'	1:1A:1774:C:H5'	2.10	0.51
1:1A:2072:A:H5'	1:1A:2589:G:O4'	2.11	0.51
1:1A:2503:U:O2'	1:1A:2504:U:H5'	2.09	0.51
1:1A:2551:C:OP2	59:1A:4355:HOH:O	2.19	0.51
1:1A:2615:U:O2'	1:1A:2616:PSU:H5"	2.10	0.51
7:1H:5:GLY:O	7:1H:65:HIS:NE2	2.43	0.51
7:1H:52:VAL:O	7:1H:65:HIS:NE2	2.31	0.51
11:1P:95:VAL:CG2	11:1P:125:VAL:HG12	2.40	0.51
13:1R:52:ILE:O	13:1R:55:ALA:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1U:69:CYS:HG	16:1U:79:PHE:HD2	1.55	0.51
32:1a:58:G:H2'	32:1a:59:C:C6	2.45	0.51
32:1a:67:G:H4'	32:1a:168:U:C5	2.45	0.51
32:1a:257:U:OP2	51:1t:79:ARG:NH2	2.42	0.51
32:1a:482:U:O2'	32:1a:483:A:H5'	2.10	0.51
32:1a:629:C:O2'	32:1a:630:U:H5'	2.10	0.51
32:1a:641:G:H1	32:1a:733:C:N4	2.08	0.51
32:1a:1080:C:H1'	32:1a:1152:A:H1'	1.92	0.51
32:1a:1168:G:O3'	40:1i:113:LYS:HE2	2.11	0.51
32:1a:1359:U:H2'	32:1a:1360:A:H8	1.74	0.51
33:1b:44:LEU:O	33:1b:47:THR:HB	2.10	0.51
33:1b:138:LEU:HD23	33:1b:141:GLU:OE1	2.11	0.51
34:1c:63:ASN:HA	34:1c:98:ASN:O	2.11	0.51
34:1c:191:THR:HB	34:1c:193:TYR:CD1	2.44	0.51
36:1e:120:THR:O	36:1e:121:LYS:HB2	2.09	0.51
39:1h:19:VAL:HG21	39:1h:21:LYS:HE2	1.92	0.51
39:1h:49:GLU:HG2	39:1h:62:TYR:HE2	1.74	0.51
40:1i:46:ALA:HA	40:1i:78:LYS:HE3	1.91	0.51
45:1n:40:CYS:SG	45:1n:42:ILE:HB	2.50	0.51
45:1n:48:ALA:HA	45:1n:53:LEU:HD12	1.92	0.51
1:2A:1698:A:N6	13:2R:11:ASN:OD1	2.41	0.51
1:2A:1751:G:C2'	1:2A:1752:U:H5'	2.41	0.51
1:2A:1824:U:O2'	1:2A:1825:C:H5'	2.09	0.51
1:2A:1894:U:O2'	1:2A:1895:G:H5'	2.11	0.51
1:2A:2012:U:H2'	1:2A:2013:G:C5'	2.37	0.51
1:2A:2085:C:HO2'	1:2A:2262:OMG:N2	2.08	0.51
1:2A:2245:G:H2'	1:2A:2246:G:O4'	2.10	0.51
1:2A:2251:C:O2'	1:2A:2252:A:H5'	2.10	0.51
1:2A:2315:G:H4'	6:2G:133:LEU:HA	1.92	0.51
1:2A:2354:C:O2'	1:2A:2384:G:H4'	2.10	0.51
1:2A:2408:G:OP1	55:2A:3552:MPD:O4	2.28	0.51
1:2A:2773:G:O2'	1:2A:2774:G:H5'	2.09	0.51
1:2A:2784:C:C2'	1:2A:2785:C:H5'	2.40	0.51
3:2D:165:ILE:HG12	3:2D:175:LEU:CD2	2.38	0.51
6:2G:42:GLY:O	6:2G:43:LEU:HB2	2.11	0.51
7:2H:144:VAL:HG12	7:2H:148:ILE:CD1	2.41	0.51
7:2H:159:GLU:HA	7:2H:163:TYR:OH	2.11	0.51
7:2H:164:TYR:HB2	7:2H:167:GLU:HB2	1.90	0.51
10:2O:94:ARG:NE	59:2O:303:HOH:O	2.37	0.51
21:2Z:18:LEU:O	21:2Z:21:ALA:HB3	2.11	0.51
25:23:11:SER:CA	25:23:31:LEU:HD21	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:206:G:H1	32:2a:214:C:N4	2.05	0.51
32:2a:373:G:H5'	47:2p:5:ARG:HH12	1.76	0.51
32:2a:419:G:H2'	32:2a:420:G:C4'	2.40	0.51
32:2a:445:G:H2'	32:2a:466:G:H22	1.76	0.51
32:2a:591:A:C2	47:2p:31:LYS:HG3	2.46	0.51
32:2a:610:U:OP1	47:2p:35:LYS:NZ	2.25	0.51
32:2a:926:C:H5'	32:2a:1288:A:H4'	1.91	0.51
32:2a:951:G:H1'	41:2j:54:PHE:CE1	2.46	0.51
32:2a:1261:A:OP1	41:2j:9:ARG:NH1	2.44	0.51
32:2a:1303:C:OP2	32:2a:1304:C:O2'	2.23	0.51
33:2b:78:GLN:O	33:2b:81:VAL:HG12	2.10	0.51
37:2f:12:PRO:HB3	37:2f:58:GLY:HA2	1.92	0.51
39:2h:51:VAL:HG21	39:2h:60:ARG:NH1	2.25	0.51
40:2i:78:LYS:CA	40:2i:81:ILE:HG22	2.40	0.51
44:2m:15:VAL:HG12	44:2m:45:VAL:HG22	1.91	0.51
44:2m:81:LEU:HA	44:2m:84:ILE:CG1	2.36	0.51
45:2n:23:ARG:HD2	45:2n:28:GLY:O	2.10	0.51
47:2p:71:ARG:HG2	47:2p:75:ARG:HE	1.76	0.51
1:1A:782:C:C2'	1:1A:783:C:H5'	2.41	0.51
1:1A:1024:G:H3'	1:1A:1025:A:C5'	2.40	0.51
1:1A:1758:C:O2'	1:1A:1759:U:H5'	2.11	0.51
1:1A:2224:U:O2'	1:1A:2225:C:H5'	2.11	0.51
1:1A:2400:G:H5"	1:1A:2401:U:C5'	2.39	0.51
1:1A:2416:G:N2	1:1A:2424:G:O6	2.43	0.51
1:1A:2588:A:H2'	1:1A:2625:A:N6	2.25	0.51
1:1A:2768:U:H4'	1:1A:2769:A:OP1	2.10	0.51
3:1D:72:LYS:HD2	3:1D:103:ARG:HH21	1.74	0.51
5:1F:187:VAL:CG1	11:1P:3:LEU:HD12	2.31	0.51
9:1N:15:LEU:HD22	9:1N:53:VAL:O	2.10	0.51
17:1V:61:VAL:HG13	17:1V:61:VAL:O	2.10	0.51
24:12:17:SER:O	24:12:21:LEU:HG	2.11	0.51
32:1a:217:C:C2'	32:1a:218:U:H5'	2.41	0.51
32:1a:406:G:N1	32:1a:425:U:O2	2.44	0.51
32:1a:673:C:O2'	32:1a:674:G:H5'	2.10	0.51
32:1a:928:U:H4'	32:1a:949:G:C2	2.45	0.51
32:1a:1036:G:N2	32:1a:1041:G:O6	2.44	0.51
32:1a:1050:A:H1'	32:1a:1051:G:O5'	2.10	0.51
32:1a:1126:G:H2'	32:1a:1127:G:H8	1.74	0.51
32:1a:1208:C:H4'	50:1s:80:TYR:OH	2.10	0.51
33:1b:174:VAL:HG11	33:1b:196:LEU:CD2	2.41	0.51
33:1b:197:VAL:HG11	33:1b:200:ILE:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1e:11:ILE:HD12	36:1e:31:LEU:HD11	1.93	0.51
36:1e:102:ALA:HA	36:1e:120:THR:OG1	2.10	0.51
38:1g:46:ALA:HB1	38:1g:121:ALA:CB	2.36	0.51
39:1h:26:VAL:CG2	39:1h:59:LEU:HB2	2.40	0.51
41:1j:42:THR:HG21	41:1j:66:ARG:HE	1.75	0.51
42:1k:105:VAL:O	42:1k:105:VAL:HG23	2.10	0.51
43:1l:83:VAL:HG12	43:1l:84:LEU:N	2.26	0.51
44:1m:88:ARG:O	44:1m:92:HIS:ND1	2.22	0.51
50:1s:33:THR:HG21	50:1s:71:LEU:HD13	1.91	0.51
1:2A:177:G:H1	1:2A:193:G:HO2'	1.57	0.51
1:2A:359:C:O2'	1:2A:360:C:H5'	2.10	0.51
1:2A:391:U:H5"	1:2A:392:A:OP2	2.10	0.51
1:2A:551:C:H4'	1:2A:552:A:O5'	2.10	0.51
1:2A:649:G:O2'	1:2A:650:U:H5'	2.10	0.51
1:2A:775:G:H1'	1:2A:809:G:O3'	2.10	0.51
1:2A:823:A:H2'	1:2A:824:G:H8	1.75	0.51
1:2A:1037:C:O2'	1:2A:1038:G:H5'	2.10	0.51
1:2A:1233:A:O2'	11:2P:34:GLY:HA2	2.10	0.51
1:2A:1471:G:OP2	1:2A:1472:A:O2'	2.26	0.51
1:2A:1857:C:C2'	1:2A:1858:G:H5'	2.41	0.51
1:2A:2701:C:H41	1:2A:2725:A:H1'	1.74	0.51
1:2A:2890:C:O2'	13:2R:96:ARG:HA	2.10	0.51
3:2D:9:TYR:HD1	3:2D:9:TYR:H	1.58	0.51
4:2E:179:GLU:HB2	4:2E:181:LEU:HD13	1.92	0.51
7:2H:162:ILE:C	7:2H:163:TYR:HD1	2.19	0.51
9:2N:62:VAL:HG12	9:2N:66:LYS:HB2	1.92	0.51
10:2O:22:ILE:HG12	10:2O:40:VAL:O	2.10	0.51
13:2R:70:LEU:C	13:2R:72:ASP:H	2.16	0.51
15:2T:64:ARG:HA	15:2T:72:VAL:O	2.11	0.51
20:2Y:51:VAL:HA	20:2Y:55:TYR:O	2.11	0.51
21:2Z:26:GLY:O	21:2Z:27:VAL:HB	2.10	0.51
21:2Z:102:LEU:N	21:2Z:122:ARG:O	2.44	0.51
23:21:4:VAL:CG1	23:21:11:ARG:HD2	2.40	0.51
25:23:8:LEU:HD22	25:23:23:LEU:HD23	1.93	0.51
28:26:19:ARG:HH21	28:26:52:VAL:HG21	1.75	0.51
32:2a:29:G:O2'	32:2a:292:U:OP1	2.28	0.51
32:2a:251:G:H2'	32:2a:252:U:H6	1.76	0.51
32:2a:254:G:H2'	32:2a:255:G:C8	2.45	0.51
32:2a:613:G:C3'	32:2a:614:G:H5"	2.41	0.51
32:2a:725:G:O2'	32:2a:726:G:H5'	2.11	0.51
32:2a:982:G:N3	32:2a:982:G:C3'	2.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1292:G:OP2	44:2m:88:ARG:NH1	2.44	0.51
32:2a:1353:G:H2'	32:2a:1354:G:H8	1.75	0.51
35:2d:18:LYS:HZ3	35:2d:26:CYS:HA	1.75	0.51
38:2g:91:VAL:HG12	38:2g:96:GLN:HG3	1.92	0.51
39:2h:20:TYR:CE2	39:2h:76:PRO:HD2	2.45	0.51
41:2j:8:LEU:HB2	41:2j:70:ARG:HB2	1.92	0.51
42:2k:20:TYR:CE1	42:2k:83:ILE:HD12	2.46	0.51
43:2l:79:GLU:HG2	43:2l:80:HIS:CD2	2.46	0.51
45:2n:59:ALA:HB1	45:2n:61:TRP:CZ3	2.39	0.51
46:2o:74:ASP:OD1	46:2o:76:GLU:HB3	2.11	0.51
1:1A:326:U:H2'	1:1A:327:G:C8	2.45	0.51
1:1A:434:G:C2'	1:1A:435:C:H5'	2.41	0.51
1:1A:481:C:H4'	59:1A:4633:HOH:O	2.11	0.51
1:1A:566:C:H42	1:1A:573:G:H1	1.56	0.51
1:1A:1103:G:C2'	1:1A:1104:G:H5'	2.40	0.51
1:1A:1136:G:C2'	1:1A:1137:C:H5'	2.40	0.51
1:1A:1153:U:H2'	1:1A:1154:C:C1'	2.41	0.51
1:1A:1641:A:O2'	1:1A:1642:A:H5'	2.10	0.51
1:1A:2290:G:O6	22:10:14:ARG:HD2	2.11	0.51
1:1A:2879:C:H2'	1:1A:2880:C:H5'	1.91	0.51
3:1D:77:ALA:O	3:1D:116:GLN:HG3	2.11	0.51
5:1F:101:LEU:HD12	5:1F:102:PRO:HD2	1.93	0.51
5:1F:107:LYS:CG	5:1F:206:ILE:HA	2.41	0.51
5:1F:126:VAL:CG2	5:1F:129:PHE:HE1	2.24	0.51
6:1G:11:TYR:HD2	6:1G:12:TYR:CD1	2.28	0.51
6:1G:60:LEU:O	6:1G:64:THR:N	2.40	0.51
6:1G:120:LEU:O	6:1G:122:PRO:HD3	2.11	0.51
13:1R:57:ARG:HH21	13:1R:62:ALA:HB2	1.74	0.51
20:1Y:19:LYS:HE3	20:1Y:20:TYR:CE1	2.43	0.51
32:1a:339:U:H1'	32:1a:343:G:N2	2.25	0.51
32:1a:366:C:O2'	32:1a:367:G:H5'	2.10	0.51
32:1a:372:G:C5'	47:1p:5:ARG:HD2	2.41	0.51
32:1a:638:G:N1	32:1a:738:C:N3	2.44	0.51
32:1a:806:C:O2'	32:1a:807:G:H5'	2.10	0.51
32:1a:969:U:H4'	32:1a:970:U:H5'	1.92	0.51
32:1a:1268:A:H2	52:1u:18:TYR:OH	1.93	0.51
32:1a:1310:C:O3'	44:1m:28:ALA:HB3	2.11	0.51
35:1d:17:VAL:HG12	35:1d:18:LYS:N	2.25	0.51
35:1d:61:LYS:HD3	35:1d:206:PHE:CE2	2.46	0.51
36:1e:101:ILE:O	36:1e:120:THR:OG1	2.27	0.51
38:1g:103:TRP:HA	38:1g:106:GLN:CB	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1l:100:ILE:HG22	43:1l:101:VAL:N	2.26	0.51
1:2A:16:G:H4'	16:2U:25:TRP:NE1	2.25	0.51
1:2A:83:G:C2'	1:2A:84:C:H5'	2.41	0.51
1:2A:275:C:C2'	1:2A:276:G:H5'	2.41	0.51
1:2A:362:U:O5'	1:2A:362:U:H6	1.92	0.51
1:2A:488:G:H5'	59:2A:3688:HOH:O	2.09	0.51
1:2A:745:A:C2'	1:2A:746:G:H5'	2.40	0.51
1:2A:828:A:C8	3:2D:221:VAL:HG21	2.45	0.51
1:2A:1073:A:H2'	1:2A:1074:A:C8	2.46	0.51
1:2A:1142:U:H2'	1:2A:1142:U:O2	2.10	0.51
1:2A:1402:U:H2'	1:2A:1403:G:O4'	2.10	0.51
1:2A:1595:C:C2'	1:2A:1596:C:H5'	2.41	0.51
1:2A:1748:G:O2'	1:2A:1749:G:H5'	2.11	0.51
1:2A:1930:C:N3	1:2A:1942:G:N1	2.49	0.51
1:2A:2110:U:H2'	1:2A:2111:G:H8	1.76	0.51
1:2A:2381:G:O6	59:2A:3890:HOH:O	2.19	0.51
1:2A:2741:G:O2'	4:2E:186:GLY:HA3	2.10	0.51
1:2A:2824:C:H5'	27:25:29:THR:HG21	1.89	0.51
2:2B:105:A:H2'	2:2B:106:G:O4'	2.10	0.51
6:2G:135:LEU:N	6:2G:155:MET:O	2.42	0.51
9:2N:13:TRP:CE2	9:2N:133:GLN:HG2	2.46	0.51
11:2P:90:ARG:CG	11:2P:91:PHE:CD1	2.93	0.51
18:2W:83:LYS:O	18:2W:84:ARG:NH1	2.39	0.51
21:2Z:23:LYS:HD3	21:2Z:40:ASP:HA	1.93	0.51
21:2Z:108:PRO:HG3	21:2Z:141:VAL:CB	2.36	0.51
22:20:51:VAL:HG21	22:20:79:VAL:C	2.35	0.51
24:22:32:LEU:HD11	24:22:57:ILE:CD1	2.41	0.51
32:2a:251:G:H5'	48:2q:16:GLN:O	2.10	0.51
32:2a:262:G:C2'	32:2a:263:C:OP2	2.58	0.51
32:2a:608:C:C4'	47:2p:11:SER:HB3	2.41	0.51
32:2a:627:C:C2'	32:2a:628:G:H5'	2.40	0.51
32:2a:693:G:H2'	32:2a:694:G:C8	2.46	0.51
32:2a:924:A:H2'	32:2a:925:G:C8	2.45	0.51
32:2a:971:G:H2'	32:2a:971:G:N3	2.26	0.51
32:2a:1111:C:H1'	32:2a:1130:C:N4	2.25	0.51
32:2a:1290:U:O2'	32:2a:1291:G:H5'	2.10	0.51
32:2a:1367:C:O2'	32:2a:1368:G:H5'	2.11	0.51
35:2d:73:ARG:O	35:2d:77:ASN:N	2.28	0.51
36:2e:79:GLU:OE1	36:2e:79:GLU:N	2.41	0.51
37:2f:45:LEU:HD12	37:2f:59:TYR:CD1	2.45	0.51
37:2f:100:ASN:HB3	49:2r:27:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:31:PHE:CE2	39:2h:35:ILE:HD11	2.46	0.51
43:2l:94:PRO:C	43:2l:96:VAL:H	2.17	0.51
51:2t:63:ILE:HG22	51:2t:77:ALA:HB1	1.91	0.51
1:1A:253:A:H2	1:1A:453:U:O2	1.93	0.51
1:1A:481:C:C4	19:1X:69:TYR:HE2	2.28	0.51
1:1A:1246:C:O2'	5:1F:184:TYR:OH	2.15	0.51
1:1A:1468:G:N2	1:1A:1622:U:H1'	2.25	0.51
1:1A:2037:U:O4'	27:15:6:VAL:HG21	2.10	0.51
1:1A:2792:G:OP1	9:1N:118:LYS:HE2	2.10	0.51
3:1D:133:LEU:HG	3:1D:189:CYS:O	2.10	0.51
5:1F:103:LYS:HA	5:1F:106:ARG:HG2	1.92	0.51
8:1I:117:GLU:HG3	8:1I:118:LYS:N	2.26	0.51
9:1N:29:LYS:O	9:1N:33:LEU:HD13	2.10	0.51
9:1N:72:TYR:OH	9:1N:98:VAL:HG13	2.10	0.51
10:1O:22:ILE:O	10:1O:23:ARG:HB2	2.10	0.51
25:13:46:ASN:O	25:13:49:LYS:N	2.42	0.51
27:15:57:VAL:HG12	27:15:58:LEU:CD1	2.35	0.51
32:1a:38:U:H2'	32:1a:39:G:O4'	2.11	0.51
32:1a:340:A:C5'	32:1a:341:C:H5	2.22	0.51
32:1a:671:A:H1'	32:1a:672:G:OP2	2.10	0.51
32:1a:917:G:H5'	38:1g:102:ARG:NH1	2.26	0.51
33:1b:130:ARG:HB3	33:1b:134:GLU:OE1	2.10	0.51
35:1d:79:PHE:CD1	35:1d:79:PHE:O	2.64	0.51
36:1e:95:ALA:HB1	36:1e:96:PRO:HD2	1.91	0.51
39:1h:38:ILE:CD1	39:1h:41:ARG:HH21	2.23	0.51
50:1s:40:ILE:CG2	50:1s:67:VAL:HA	2.40	0.51
1:2A:300:C:C1'	1:2A:301:A:P	2.99	0.51
1:2A:646:G:O2'	1:2A:647:G:H5'	2.11	0.51
1:2A:659:C:O2'	1:2A:660:G:H5'	2.10	0.51
1:2A:888:G:O2'	1:2A:889:G:H5'	2.11	0.51
1:2A:1181:G:O2'	1:2A:1182:G:H5'	2.10	0.51
1:2A:1225:C:C2'	1:2A:1226:A:H5'	2.41	0.51
1:2A:1332:A:OP1	13:2R:106:GLY:N	2.44	0.51
1:2A:1536:G:H2'	1:2A:1537:G:H8	1.76	0.51
1:2A:1782:C:H2'	1:2A:1783:G:C8	2.46	0.51
1:2A:1843:G:H1'	3:2D:50:THR:OG1	2.10	0.51
1:2A:2032:U:OP2	18:2W:16:LYS:NZ	2.43	0.51
1:2A:2086:C:H5'	1:2A:2262:OMG:N2	2.25	0.51
1:2A:2305:C:H2'	1:2A:2306:C:H6	1.76	0.51
1:2A:2477:C:H2'	1:2A:2478:C:H5'	1.90	0.51
1:2A:2662:C:O2'	1:2A:2663:C:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2819:A:H2'	1:2A:2820:G:H5'	1.93	0.51
1:2A:2893:U:C2'	1:2A:2894:C:H5'	2.40	0.51
6:2G:11:TYR:O	6:2G:16:ARG:N	2.33	0.51
6:2G:104:GLU:HG3	6:2G:108:ASN:ND2	2.18	0.51
11:2P:115:LEU:CD2	11:2P:131:SER:HB3	2.40	0.51
14:2S:85:VAL:O	14:2S:112:PHE:HB3	2.10	0.51
15:2T:110:ILE:O	15:2T:114:LEU:N	2.37	0.51
18:2W:48:ALA:O	18:2W:51:LEU:N	2.44	0.51
29:27:12:ARG:NH2	29:27:44:PRO:HB3	2.26	0.51
32:2a:68:C:H2'	32:2a:69:G:H8	1.74	0.51
32:2a:90:U:H2'	32:2a:91:G:H8	1.76	0.51
32:2a:229:C:O2'	32:2a:230:C:H5'	2.10	0.51
32:2a:662:U:H2'	32:2a:663:C:C6	2.46	0.51
32:2a:691:C:OP1	42:2k:85:ARG:HD2	2.11	0.51
32:2a:1047:G:OP1	32:2a:1047:G:H8	1.93	0.51
32:2a:1164:G:H4'	32:2a:1165:A:H3'	1.92	0.51
32:2a:1441:C:C2'	32:2a:1442:G:H5'	2.40	0.51
33:2b:112:VAL:HG21	33:2b:152:PHE:CD2	2.44	0.51
34:2c:44:GLU:HG2	34:2c:44:GLU:O	2.11	0.51
36:2e:26:PHE:N	36:2e:26:PHE:CD1	2.78	0.51
43:2l:26:ALA:HA	43:2l:64:TYR:CE2	2.45	0.51
44:2m:32:GLU:O	44:2m:36:LYS:N	2.26	0.51
44:2m:98:VAL:O	44:2m:100:GLY:N	2.38	0.51
1:1A:29:G:O2'	1:1A:1258:A:N3	2.37	0.51
1:1A:183:A:H4'	1:1A:239:A:O2'	2.11	0.51
1:1A:320:C:OP1	20:1Y:87:LYS:HD2	2.11	0.51
1:1A:862:C:O2'	1:1A:976:G:O6	2.25	0.51
1:1A:971:A:O2'	1:1A:972:G:H5'	2.11	0.51
1:1A:1829:G:C5	3:1D:177:LEU:HD13	2.46	0.51
1:1A:1891:G:O2'	1:1A:1892:G:H5'	2.11	0.51
1:1A:1901:C:O2'	1:1A:1902:C:H5'	2.11	0.51
1:1A:1911:A:H2'	1:1A:1912:G:O4'	2.11	0.51
1:1A:2361:C:H2'	1:1A:2362:G:H5'	1.93	0.51
1:1A:2860:A:O2'	13:1R:64:ARG:NH2	2.44	0.51
4:1E:8:LYS:NZ	4:1E:188:VAL:O	2.39	0.51
5:1F:181:LEU:O	5:1F:205:ARG:NH2	2.39	0.51
6:1G:63:ILE:HD13	6:1G:155:MET:HE1	1.92	0.51
8:1I:57:ARG:HG3	8:1I:58:LEU:H	1.75	0.51
12:1Q:61:GLY:O	21:1Z:178:GLU:N	2.40	0.51
20:1Y:87:LYS:HD3	20:1Y:95:LYS:CE	2.41	0.51
21:1Z:11:GLU:HG3	21:1Z:12:GLY:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:28:LYS:O	26:14:30:GLU:N	2.43	0.51
28:16:14:THR:CG2	28:16:48:VAL:HG13	2.40	0.51
30:18:29:LYS:CE	30:18:45:GLY:HA2	2.40	0.51
32:1a:275:A:C8	48:1q:98:LEU:HD23	2.45	0.51
32:1a:426:A:C2'	32:1a:427:A:H5'	2.41	0.51
32:1a:441:G:H2'	32:1a:442:G:H5'	1.93	0.51
32:1a:459:G:O2'	32:1a:460:G:H5'	2.10	0.51
32:1a:503:C:OP2	43:1l:50:SER:OG	2.24	0.51
32:1a:524:G:N2	35:1d:42:GLN:OE1	2.38	0.51
32:1a:1102:C:O2'	32:1a:1103:G:H5'	2.11	0.51
32:1a:1155:G:H2'	32:1a:1156:G:C8	2.45	0.51
36:1e:36:ASP:O	36:1e:37:ARG:HB2	2.10	0.51
36:1e:51:VAL:HB	36:1e:52:PRO:CD	2.41	0.51
52:1u:14:TRP:CE3	52:1u:15:ARG:HB2	2.46	0.51
1:2A:216:A:H2'	1:2A:217:A:H5"	1.93	0.51
1:2A:350:G:O2'	1:2A:351:U:H5'	2.11	0.51
1:2A:439:C:H4'	1:2A:1901:C:O2'	2.11	0.51
1:2A:1089:G:O2'	1:2A:1093:A:H1'	2.11	0.51
1:2A:1513:C:C2'	1:2A:1514:C:H5'	2.41	0.51
1:2A:1545:G:H21	3:2D:100:GLY:HA3	1.74	0.51
1:2A:1711:A:C2'	1:2A:1712:G:H5'	2.41	0.51
1:2A:2551:C:O2'	1:2A:2552:A:H5'	2.10	0.51
1:2A:2857:G:H1'	1:2A:2876:G:N2	2.26	0.51
3:2D:42:GLY:O	3:2D:49:ILE:HA	2.11	0.51
6:2G:14:GLU:C	6:2G:17:PRO:HD2	2.36	0.51
8:2I:92:VAL:HG23	8:2I:92:VAL:O	2.11	0.51
9:2N:42:TRP:HA	9:2N:48:MET:CE	2.40	0.51
9:2N:128:HIS:ND1	9:2N:130:HIS:HB2	2.26	0.51
10:2O:4:PRO:O	10:2O:5:GLN:HB2	2.10	0.51
12:2Q:108:GLY:HA3	21:2Z:116:VAL:HG13	1.92	0.51
14:2S:78:LEU:HD21	14:2S:109:GLY:O	2.11	0.51
20:2Y:106:LEU:O	20:2Y:107:ASP:HB2	2.09	0.51
32:2a:97:C:H2'	32:2a:98:G:C5'	2.40	0.51
32:2a:218:U:O2'	32:2a:219:U:H5'	2.11	0.51
32:2a:600:G:OP2	35:2d:141:ARG:NH2	2.44	0.51
32:2a:815:U:OP1	33:2b:22:LYS:HD3	2.10	0.51
32:2a:1171:C:H4'	34:2c:10:PHE:CZ	2.46	0.51
32:2a:1280:C:H4'	32:2a:1281:A:O5'	2.10	0.51
40:2i:46:ALA:HB2	40:2i:74:ILE:O	2.11	0.51
40:2i:79:LEU:HD11	40:2i:83:ARG:NH2	2.20	0.51
41:2j:47:PHE:N	41:2j:47:PHE:CD1	2.77	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:16:SER:HA	42:2k:79:SER:O	2.10	0.51
1:1A:400:A:H2'	1:1A:401:C:H5'	1.92	0.51
1:1A:493:G:H5"	5:1F:60:SER:HB3	1.91	0.51
1:1A:511:C:H4'	18:1W:60:ASN:ND2	2.26	0.51
1:1A:830:A:O2'	1:1A:831:G:H8	1.94	0.51
1:1A:1104:G:H3'	1:1A:1105:U:H2'	1.93	0.51
1:1A:1174:A:H5'	59:1A:4670:HOH:O	2.09	0.51
1:1A:1225:C:O2'	1:1A:1226:A:H5'	2.11	0.51
1:1A:1594:C:O2'	1:1A:1595:C:H5'	2.11	0.51
1:1A:2148:G:H2'	1:1A:2149:C:C6	2.45	0.51
1:1A:2251:C:OP2	59:1A:4354:HOH:O	2.19	0.51
1:1A:2277:A:H1'	1:1A:2283:U:O4	2.10	0.51
1:1A:2416:G:O2'	59:1A:4127:HOH:O	2.05	0.51
1:1A:2648:U:C2'	1:1A:2649:G:H5'	2.41	0.51
1:1A:2878:G:H2'	1:1A:2879:C:O4'	2.11	0.51
2:1B:24:G:N7	2:1B:56:G:H2'	2.25	0.51
12:1Q:39:PRO:O	12:1Q:40:ALA:HB2	2.11	0.51
15:1T:27:THR:O	15:1T:89:VAL:HG22	2.11	0.51
21:1Z:42:VAL:HG13	21:1Z:43:GLU:N	2.26	0.51
26:14:67:TYR:CD2	50:1s:16:LEU:CD2	2.84	0.51
27:15:55:ARG:NH1	27:15:57:VAL:HG22	2.26	0.51
28:16:21:TYR:HD2	28:16:38:LYS:HZ3	1.51	0.51
32:1a:808:C:N4	32:1a:854:G:H1	2.09	0.51
32:1a:1163:G:O2'	32:1a:1164:G:N7	2.43	0.51
32:1a:1287:G:P	52:1u:5:ASP:HB2	2.51	0.51
32:1a:1301:A:H4'	32:1a:1302:C:OP1	2.10	0.51
32:1a:1329:G:N2	32:1a:1356:G:H2'	2.25	0.51
34:1c:33:LEU:CD2	45:1n:39:LEU:HD11	2.37	0.51
35:1d:176:LEU:HG	35:1d:178:VAL:HG22	1.93	0.51
39:1h:40:ALA:HB2	39:1h:45:ILE:CG1	2.41	0.51
40:1i:109:VAL:HG12	40:1i:110:GLU:N	2.26	0.51
41:1j:6:ILE:O	41:1j:72:VAL:N	2.31	0.51
42:1k:99:GLN:HG2	42:1k:105:VAL:HG21	1.91	0.51
44:1m:80:ARG:HG3	44:1m:81:LEU:H	1.74	0.51
45:1n:44:LEU:O	45:1n:48:ALA:HB2	2.10	0.51
49:1r:45:SER:OG	49:1r:47:THR:HG22	2.10	0.51
1:2A:196:C:O2'	1:2A:197:C:H5'	2.10	0.51
1:2A:608:A:O2'	1:2A:717:C:O2'	2.28	0.51
1:2A:733:C:C2'	1:2A:734:U:H5'	2.41	0.51
1:2A:808:U:N3	1:2A:1476:U:OP1	2.38	0.51
1:2A:960:C:H2'	1:2A:961:G:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1597:C:C2'	1:2A:1598:G:H5'	2.41	0.51
1:2A:1941:OMC:HM22	1:2A:1942:G:C4'	2.41	0.51
1:2A:2224:U:O2'	3:2D:151:LYS:HG2	2.11	0.51
1:2A:2325:C:O2'	1:2A:2326:G:H5'	2.10	0.51
1:2A:2350:G:H2'	1:2A:2351:G:C8	2.46	0.51
1:2A:2468:U:H2'	1:2A:2469:G:H5'	1.93	0.51
2:2B:91:C:O2'	2:2B:92:C:H5'	2.11	0.51
4:2E:15:PHE:HA	4:2E:20:ALA:HA	1.93	0.51
4:2E:51:PHE:CE2	4:2E:52:LEU:HG	2.46	0.51
7:2H:89:ILE:O	7:2H:129:THR:HG23	2.11	0.51
9:2N:41:ASP:O	9:2N:48:MET:HE1	2.11	0.51
10:2O:43:VAL:HG12	10:2O:54:GLU:HA	1.92	0.51
10:2O:69:ILE:O	10:2O:76:ALA:HA	2.11	0.51
21:2Z:187:ALA:O	21:2Z:189:ALA:N	2.43	0.51
28:26:52:VAL:HG22	28:26:53:LYS:N	2.25	0.51
31:29:25:VAL:CB	31:29:34:GLN:HB2	2.23	0.51
32:2a:46:U:O2'	32:2a:47:G:H5'	2.11	0.51
32:2a:337:C:H2'	32:2a:338:C:H5'	1.93	0.51
32:2a:546:C:O2	43:2l:16:GLU:N	2.42	0.51
32:2a:692:C:O2'	32:2a:693:G:H5'	2.11	0.51
32:2a:1063:A:H5'	36:2e:14:ARG:NH2	2.26	0.51
32:2a:1176:U:H4'	36:2e:22:GLY:O	2.10	0.51
32:2a:1369:G:O2'	32:2a:1370:G:H5'	2.11	0.51
32:2a:1373:U:C2'	32:2a:1374:U:H5'	2.40	0.51
39:2h:30:ARG:O	39:2h:33:GLU:HB2	2.11	0.51
39:2h:34:GLU:HB3	39:2h:118:VAL:CG2	2.36	0.51
44:2m:49:THR:HG1	44:2m:52:GLU:H	1.57	0.51
1:1A:706:G:H5"	5:1F:99:TYR:CE2	2.45	0.51
1:1A:938:C:O2'	1:1A:939:C:H5'	2.10	0.51
1:1A:1339:U:O2'	13:1R:23:ASN:ND2	2.43	0.51
1:1A:1474:G:O2'	1:1A:1475:C:H5'	2.11	0.51
1:1A:2003:C:H5'	59:1A:4013:HOH:O	2.10	0.51
1:1A:2227:G:H3'	1:1A:2228:A:H5'	1.93	0.51
1:1A:2247:C:C2'	1:1A:2248:G:H5'	2.41	0.51
1:1A:2250:G:H5'	3:1D:251:GLY:HA3	1.93	0.51
1:1A:2568:G:O2'	1:1A:2569:C:H5'	2.11	0.51
1:1A:2789:G:O6	59:1A:4356:HOH:O	2.19	0.51
2:1B:7:G:H8	2:1B:7:G:H5'	1.76	0.51
5:1F:36:VAL:O	5:1F:39:TRP:HB3	2.11	0.51
8:1I:117:GLU:HG3	8:1I:118:LYS:H	1.75	0.51
32:1a:10:G:OP2	36:1e:121:LYS:NZ	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:400:U:OP2	35:1d:118:ARG:NH2	2.44	0.51
32:1a:561:G:C2'	32:1a:562:C:H5'	2.40	0.51
32:1a:590:G:N2	32:1a:615:G:N7	2.59	0.51
32:1a:958:C:H2'	32:1a:959:U:O4'	2.11	0.51
32:1a:1125:G:H2'	32:1a:1126:G:H5'	1.93	0.51
33:1b:223:ILE:HD13	33:1b:229:VAL:HA	1.92	0.51
35:1d:78:LEU:HD13	35:1d:97:LEU:HD23	1.92	0.51
35:1d:180:GLY:HA3	35:1d:182:LYS:HZ2	1.76	0.51
37:1f:8:ILE:CG2	37:1f:10:LEU:HD11	2.40	0.51
40:1i:26:VAL:HG11	40:1i:33:PHE:HB2	1.90	0.51
44:1m:16:ASP:OD1	44:1m:17:VAL:N	2.43	0.51
47:1p:45:THR:OG1	47:1p:46:PRO:HD2	2.11	0.51
1:2A:698:C:H2'	1:2A:699:A:O4'	2.10	0.51
1:2A:2213:G:C2'	1:2A:2214:G:H5'	2.37	0.51
1:2A:2291:G:O2'	1:2A:2292:C:H5'	2.11	0.51
1:2A:2373:G:C2'	1:2A:2374:C:H5'	2.41	0.51
3:2D:268:ARG:C	3:2D:269:PHE:HD1	2.19	0.51
5:2F:111:ALA:O	5:2F:114:VAL:N	2.44	0.51
8:2I:29:TYR:O	8:2I:32:PRO:HG2	2.11	0.51
9:2N:91:LEU:HD23	9:2N:98:VAL:HG21	1.93	0.51
10:2O:71:ARG:NE	10:2O:105:GLU:OE2	2.37	0.51
10:2O:78:ARG:NE	15:2T:73:GLU:OE1	2.43	0.51
16:2U:32:PHE:HA	16:2U:35:ALA:HB3	1.92	0.51
18:2W:14:PRO:O	18:2W:16:LYS:N	2.44	0.51
24:22:25:VAL:HG11	24:22:61:LEU:HD21	1.93	0.51
32:2a:79:G:N2	32:2a:86:U:H1'	2.26	0.51
32:2a:906:G:H5'	32:2a:1481:A:N6	2.25	0.51
32:2a:987:C:H2'	32:2a:988:G:H8	1.76	0.51
32:2a:1088:A:O2'	32:2a:1089:G:H5'	2.10	0.51
32:2a:1374:U:H2'	32:2a:1375:G:C8	2.46	0.51
33:2b:47:THR:OG1	33:2b:202:PRO:HG2	2.10	0.51
33:2b:97:TRP:CH2	33:2b:101:MET:HB3	2.46	0.51
37:2f:33:TYR:HE2	37:2f:75:LEU:HA	1.75	0.51
38:2g:91:VAL:HG12	38:2g:96:GLN:CG	2.41	0.51
41:2j:8:LEU:CD2	41:2j:96:ILE:HG13	2.41	0.51
1:1A:115:A:H5'	1:1A:116:A:H8	1.75	0.51
1:1A:228:G:O2'	1:1A:245:A:N6	2.44	0.51
1:1A:371:G:C2'	1:1A:372:G:H5'	2.41	0.51
1:1A:938:C:H2'	1:1A:939:C:C6	2.46	0.51
1:1A:1069:G:O2'	1:1A:1189:G:O2'	2.16	0.51
1:1A:1651:G:H5"	1:1A:1652:C:OP1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1659:A:C6	18:1W:87:PRO:HB3	2.45	0.51
1:1A:1729:C:N4	1:1A:1751:G:H1	2.06	0.51
1:1A:2004:C:OP1	59:1A:4349:HOH:O	2.19	0.51
1:1A:2095:U:H4'	1:1A:2609:A:O4'	2.11	0.51
1:1A:2278:A:H5"	1:1A:2279:A:H5'	1.92	0.51
3:1D:165:ILE:HG12	3:1D:175:LEU:CD2	2.41	0.51
4:1E:21:VAL:O	4:1E:21:VAL:HG23	2.10	0.51
4:1E:179:GLU:O	4:1E:180:ASN:HB2	2.11	0.51
10:1O:64:ARG:HD3	10:1O:101:PRO:O	2.11	0.51
11:1P:2:LYS:O	11:1P:5:ASP:HB2	2.09	0.51
20:1Y:20:TYR:HD2	20:1Y:42:VAL:HA	1.76	0.51
26:14:56:VAL:HG23	26:14:57:GLU:N	2.26	0.51
32:1a:186:C:O2'	32:1a:187:C:H5'	2.10	0.51
32:1a:274:G:OP2	48:1q:92:ARG:NH2	2.44	0.51
32:1a:452:C:N4	32:1a:460:G:H1	2.05	0.51
32:1a:647:A:C5'	49:1r:61:LYS:HE3	2.38	0.51
32:1a:1005:G:N3	32:1a:1005:G:H2'	2.26	0.51
32:1a:1106:A:HO2'	41:1j:37:PRO:C	2.14	0.51
32:1a:1183:A:H4'	32:1a:1184:G:H5"	1.91	0.51
32:1a:1349:C:H2'	32:1a:1350:C:O4'	2.11	0.51
32:1a:1418:G:H2'	32:1a:1419:U:C6	2.46	0.51
33:1b:32:ILE:HD13	33:1b:40:HIS:CD2	2.46	0.51
33:1b:194:PRO:O	33:1b:195:ASP:C	2.54	0.51
37:1f:60:PHE:C	37:1f:61:LEU:HD12	2.36	0.51
39:1h:34:GLU:O	39:1h:37:ARG:HB3	2.11	0.51
39:1h:63:LEU:HB3	39:1h:65:TYR:HE1	1.76	0.51
43:1l:97:ARG:HB2	43:1l:98:TYR:CD1	2.46	0.51
43:1l:98:TYR:CD1	43:1l:98:TYR:N	2.78	0.51
44:1m:57:ARG:O	44:1m:61:GLU:HG3	2.11	0.51
47:1p:38:TYR:CE1	47:1p:50:LYS:CB	2.93	0.51
47:1p:59:TRP:CA	47:1p:62:VAL:HG12	2.39	0.51
1:2A:966:G:H4'	1:2A:2280:A:C6	2.47	0.51
1:2A:1184:C:OP1	9:2N:23:LEU:HB3	2.11	0.51
1:2A:1257:A:OP2	1:2A:1280:G:N1	2.39	0.51
1:2A:1446:G:H2'	1:2A:1447:C:C6	2.46	0.51
1:2A:1552:A:C2	1:2A:1553:A:H1'	2.45	0.51
1:2A:1901:C:C2'	1:2A:1902:C:H5'	2.41	0.51
1:2A:2361:C:O2'	1:2A:2362:G:H5'	2.11	0.51
1:2A:2879:C:C2'	1:2A:2880:C:H5'	2.40	0.51
2:2B:61:G:O2'	2:2B:62:C:H5'	2.11	0.51
3:2D:145:VAL:HG22	3:2D:191:ALA:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:172:TYR:CE1	3:2D:186:HIS:CD2	2.99	0.51
4:2E:49:LEU:N	4:2E:79:ARG:O	2.40	0.51
5:2F:101:LEU:HD12	5:2F:102:PRO:HD2	1.93	0.51
6:2G:77:ILE:HD13	6:2G:80:PHE:HD2	1.76	0.51
6:2G:131:TYR:HE2	6:2G:133:LEU:HD23	1.76	0.51
8:2I:116:LEU:HD11	8:2I:119:PRO:HA	1.93	0.51
9:2N:107:LEU:CD1	9:2N:117:PHE:HB2	2.41	0.51
15:2T:68:TYR:N	15:2T:68:TYR:HD1	2.08	0.51
15:2T:120:ARG:HG3	15:2T:123:GLN:HE21	1.73	0.51
19:2X:5:TYR:N	19:2X:5:TYR:CD1	2.78	0.51
28:26:30:THR:HG22	28:26:30:THR:O	2.11	0.51
32:2a:9:A:N6	35:2d:205:GLU:O	2.42	0.51
32:2a:312:G:N1	32:2a:333:C:N3	2.52	0.51
32:2a:345:A:H2'	32:2a:346:G:O4'	2.11	0.51
32:2a:507:A:H61	43:2l:92:0TD:CG	2.24	0.51
32:2a:622:G:C2'	32:2a:623:G:H5'	2.41	0.51
32:2a:651:G:H4'	46:2o:51:HIS:ND1	2.25	0.51
32:2a:1286:G:H1'	32:2a:1315:A:N6	2.22	0.51
32:2a:1466:G:O2'	32:2a:1467:G:H5'	2.11	0.51
35:2d:165:MET:O	35:2d:178:VAL:HG21	2.11	0.51
37:2f:45:LEU:CD1	37:2f:59:TYR:HD1	2.22	0.51
40:2i:8:GLY:O	40:2i:15:ALA:N	2.32	0.51
50:2s:62:ILE:H	50:2s:62:ILE:HD12	1.76	0.51
51:2t:88:VAL:O	51:2t:90:GLN:N	2.44	0.51
52:2u:20:LYS:CD	52:2u:21:TYR:HE1	2.20	0.51
1:1A:124:A:H5"	1:1A:125:C:O4'	2.11	0.50
1:1A:342:C:O2'	1:1A:343:A:H5'	2.11	0.50
1:1A:1130:A:C5	1:1A:1131:A:N7	2.79	0.50
1:1A:1812:C:H1'	1:1A:2620:U:O4'	2.11	0.50
1:1A:1908:C:H2'	1:1A:1909:G:H5'	1.93	0.50
1:1A:2002:A:H3'	59:1A:4013:HOH:O	2.11	0.50
1:1A:2061:C:O2'	1:1A:2062:U:H5'	2.11	0.50
1:1A:2653:G:C5'	9:1N:78:TYR:CD2	2.94	0.50
3:1D:16:MET:HG3	3:1D:206:LEU:O	2.11	0.50
3:1D:37:LEU:HD13	3:1D:87:ASN:ND2	2.26	0.50
3:1D:69:ARG:HE	3:1D:130:ALA:CB	2.22	0.50
6:1G:95:ARG:NH2	59:1G:8103:HOH:O	2.18	0.50
11:1P:33:ARG:HD3	11:1P:40:SER:HA	1.92	0.50
15:1T:51:ARG:O	15:1T:61:PHE:HA	2.11	0.50
17:1V:31:ALA:O	17:1V:61:VAL:HG12	2.10	0.50
18:1W:17:VAL:HG23	18:1W:76:VAL:HG11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:54:VAL:HG22	19:1X:81:VAL:HG12	1.93	0.50
19:1X:72:LYS:HG2	19:1X:73:ARG:O	2.10	0.50
21:1Z:15:PRO:HB3	21:1Z:19:ARG:HH21	1.76	0.50
21:1Z:28:MET:CE	21:1Z:61:LEU:HD21	2.41	0.50
30:18:22:VAL:HG11	30:18:50:LEU:HD12	1.91	0.50
32:1a:118:G:O2'	32:1a:119:U:H5'	2.11	0.50
32:1a:351:C:H5'	32:1a:385:A:OP1	2.12	0.50
32:1a:506:C:C2'	32:1a:507:A:H5'	2.39	0.50
32:1a:522:G:OP2	43:1l:115:LYS:HD2	2.10	0.50
32:1a:646:G:H2'	32:1a:647:A:H8	1.76	0.50
32:1a:953:A:O4'	32:1a:1340:U:H1'	2.11	0.50
32:1a:1257:A:H2'	32:1a:1258:G:H5'	1.93	0.50
32:1a:1362:G:C2'	32:1a:1363:U:H5'	2.41	0.50
32:1a:1392:C:O2'	32:1a:1393:G:H5'	2.10	0.50
33:1b:221:LEU:HD23	33:1b:224:GLN:OE1	2.10	0.50
38:1g:133:GLY:O	38:1g:136:LYS:HB3	2.10	0.50
39:1h:87:SER:HB2	39:1h:93:VAL:HB	1.93	0.50
40:1i:5:TYR:HH	40:1i:7:THR:HG1	1.59	0.50
40:1i:17:VAL:C	40:1i:18:PHE:HD1	2.18	0.50
41:1j:30:SER:OG	41:1j:84:GLN:NE2	2.44	0.50
41:1j:64:GLU:O	45:1n:56:VAL:HA	2.11	0.50
42:1k:94:ALA:O	42:1k:98:LEU:HG	2.11	0.50
49:1r:34:TYR:HA	49:1r:69:THR:CG2	2.41	0.50
50:1s:33:THR:CG2	50:1s:51:VAL:HA	2.41	0.50
1:2A:172:C:H4'	1:2A:205:G:N2	2.27	0.50
1:2A:508:A:H1'	20:2Y:59:GLY:O	2.10	0.50
1:2A:633:C:H42	1:2A:641:G:H1	1.58	0.50
1:2A:866:A:N6	59:2A:3867:HOH:O	2.17	0.50
1:2A:931:C:H1'	1:2A:937:G:N2	2.25	0.50
1:2A:1183:G:O2'	1:2A:1184:C:H5'	2.10	0.50
1:2A:1365:C:H4'	1:2A:1366:A:OP1	2.11	0.50
1:2A:1708:C:HO2'	1:2A:1709:C:H5'	1.75	0.50
1:2A:1834:C:N4	1:2A:1843:G:H1	2.07	0.50
1:2A:2114:G:H1	1:2A:2217:C:H42	1.59	0.50
1:2A:2161:C:H2'	1:2A:2162:G:H8	1.76	0.50
1:2A:2236:A:H4'	1:2A:2237:C:C6	2.45	0.50
1:2A:2404:A:O2'	1:2A:2405:C:H5'	2.11	0.50
1:2A:2622:U:C4	27:25:3:LYS:HG2	2.45	0.50
3:2D:7:LYS:O	3:2D:9:TYR:CD1	2.65	0.50
4:2E:52:LEU:CB	4:2E:76:ARG:HD3	2.27	0.50
9:2N:29:LYS:O	9:2N:30:ILE:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2O:122:LEU:HD23	15:2T:43:GLN:NE2	2.25	0.50
11:2P:19:VAL:CB	11:2P:31:ALA:HB1	2.38	0.50
11:2P:47:ASP:OD2	11:2P:49:ARG:NH2	2.42	0.50
12:2Q:29:PHE:HD2	12:2Q:65:PHE:CD1	2.29	0.50
14:2S:38:GLN:O	14:2S:40:ILE:HG13	2.11	0.50
14:2S:53:SER:O	14:2S:56:LEU:N	2.44	0.50
15:2T:91:ARG:HB2	15:2T:121:ILE:HG13	1.93	0.50
21:2Z:10:ARG:NH1	21:2Z:25:PRO:HB3	2.26	0.50
21:2Z:179:ASP:HB3	21:2Z:182:LYS:HD2	1.93	0.50
24:22:9:GLN:HE22	24:22:56:GLN:CB	2.24	0.50
30:28:40:GLU:HG3	30:28:44:LYS:HE3	1.93	0.50
32:2a:279:C:H2'	32:2a:280:G:O4'	2.11	0.50
32:2a:341:C:H4'	32:2a:342:G:C4	2.46	0.50
32:2a:487:C:O2'	32:2a:488:C:H5'	2.11	0.50
32:2a:551:G:O6	43:2l:5:PRO:HD3	2.12	0.50
32:2a:1033:G:H1'	32:2a:1196:C:O2	2.11	0.50
32:2a:1208:C:C5	44:2m:104:ARG:HA	2.46	0.50
32:2a:1300:A:H61	32:2a:1342:A:H61	1.56	0.50
32:2a:1392:C:O2'	32:2a:1393:G:H5'	2.11	0.50
32:2a:1463:U:H2'	32:2a:1464:G:C8	2.46	0.50
34:2c:150:LYS:CG	34:2c:169:ALA:HB2	2.41	0.50
35:2d:189:PRO:CB	35:2d:194:LEU:HD11	2.40	0.50
36:2e:88:LYS:O	36:2e:123:LEU:N	2.44	0.50
38:2g:113:GLU:HG2	38:2g:118:VAL:CG1	2.35	0.50
39:2h:97:VAL:HA	39:2h:100:ILE:CG1	2.40	0.50
39:2h:97:VAL:HA	39:2h:100:ILE:HG13	1.93	0.50
39:2h:114:THR:OG1	39:2h:117:GLY:N	2.44	0.50
42:2k:48:ILE:HG21	42:2k:63:LEU:HB2	1.94	0.50
44:2m:80:ARG:NH2	50:2s:65:ASN:O	2.44	0.50
1:1A:35:G:H4'	1:1A:476:C:C2	2.46	0.50
1:1A:67:C:O2'	1:1A:68:G:H5'	2.11	0.50
1:1A:506:G:OP2	20:1Y:47:LYS:HG2	2.11	0.50
1:1A:832:C:O2'	1:1A:833:U:H5'	2.10	0.50
1:1A:1267:C:C2'	1:1A:1268:G:H5'	2.41	0.50
1:1A:2288:G:C3'	1:1A:2289:A:H5"	2.42	0.50
1:1A:2314:G:H1	1:1A:2324:C:H42	1.58	0.50
1:1A:2468:U:O2'	1:1A:2469:G:H5'	2.11	0.50
1:1A:2531:C:C2'	1:1A:2532:C:H5'	2.41	0.50
5:1F:157:VAL:HB	5:1F:194:MET:HG2	1.93	0.50
5:1F:175:THR:O	5:1F:176:LEU:HG	2.11	0.50
6:1G:56:ALA:O	6:1G:59:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:126:ASP:N	6:1G:130:ASN:O	2.41	0.50
8:1I:40:THR:O	8:1I:44:LEU:HB2	2.11	0.50
14:1S:77:ALA:O	14:1S:80:LEU:N	2.44	0.50
25:13:23:LEU:HD12	25:13:50:VAL:HG11	1.93	0.50
28:16:14:THR:HG21	28:16:48:VAL:CG1	2.40	0.50
32:1a:111:G:N2	32:1a:309:A:O2'	2.44	0.50
32:1a:225:U:H2'	32:1a:226:G:C8	2.43	0.50
32:1a:315:G:H1	32:1a:330:C:N4	2.05	0.50
32:1a:387:G:O3'	47:1p:8:ARG:NH1	2.29	0.50
32:1a:507:A:H61	43:1l:92:0TD:CG	2.24	0.50
32:1a:527:C:C2'	32:1a:528:G:H5'	2.41	0.50
32:1a:657:G:H5"	37:1f:87:ARG:HH12	1.73	0.50
32:1a:843:A:H2'	32:1a:844:C:H6	1.76	0.50
32:1a:920:G:N2	32:1a:921:U:H1'	2.25	0.50
32:1a:951:G:H1'	41:1j:54:PHE:HD1	1.76	0.50
32:1a:1108:U:C5	41:1j:38:ILE:HG21	2.46	0.50
32:1a:1222:U:O4'	38:1g:42:ILE:HD11	2.12	0.50
32:1a:1310:C:H2'	32:1a:1311:A:H8	1.74	0.50
32:1a:1473:U:H2'	32:1a:1474:C:H6	1.75	0.50
33:1b:38:GLY:O	33:1b:39:ILE:HD13	2.10	0.50
38:1g:92:SER:HB2	38:1g:93:PRO:HD2	1.93	0.50
40:1i:46:ALA:HA	40:1i:78:LYS:CB	2.33	0.50
42:1k:31:THR:HA	42:1k:42:TRP:HA	1.93	0.50
43:1l:6:THR:OG1	43:1l:9:GLN:HG3	2.10	0.50
43:1l:36:VAL:H	43:1l:58:VAL:HG13	1.76	0.50
44:1m:5:ALA:HB2	44:1m:61:GLU:OE2	2.10	0.50
44:1m:94:ARG:NH2	50:1s:80:TYR:O	2.40	0.50
50:1s:33:THR:CG2	50:1s:51:VAL:HG22	2.41	0.50
51:1t:61:SER:O	51:1t:65:LYS:HG3	2.10	0.50
1:2A:64:C:H2'	1:2A:65:U:C6	2.46	0.50
1:2A:105:U:O2'	1:2A:106:G:H5'	2.10	0.50
1:2A:609:C:H42	11:2P:33:ARG:HD2	1.76	0.50
1:2A:1444:C:O2'	1:2A:1445:G:H5'	2.11	0.50
1:2A:1871:U:O2'	1:2A:1872:G:H5'	2.11	0.50
1:2A:1905:A:O2'	1:2A:1906:A:H5'	2.11	0.50
1:2A:1981:A:O2'	32:2a:1462:C:O2'	2.16	0.50
1:2A:2128:C:H42	1:2A:2203:G:H1	1.58	0.50
1:2A:2280:A:OP1	59:2A:3891:HOH:O	2.20	0.50
1:2A:2537:G:H1'	31:29:1:MET:N	2.26	0.50
1:2A:2610:G:OP2	3:2D:236:GLY:N	2.41	0.50
1:2A:2689:C:H42	1:2A:2741:G:H1	1.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2718:G:H4'	13:2R:68:ARG:HE	1.76	0.50
2:2B:30:C:C2'	2:2B:31:C:H5'	2.37	0.50
5:2F:155:LEU:HB2	5:2F:189:THR:CG2	2.28	0.50
6:2G:3:LEU:HB2	26:24:25:TYR:OH	2.11	0.50
6:2G:145:THR:CG2	6:2G:148:MET:HE3	2.35	0.50
7:2H:5:GLY:O	7:2H:65:HIS:NE2	2.44	0.50
9:2N:12:ARG:HG3	9:2N:50:ASP:OD1	2.11	0.50
9:2N:62:VAL:HG13	9:2N:66:LYS:HD2	1.92	0.50
11:2P:31:ALA:O	11:2P:32:THR:OG1	2.18	0.50
13:2R:48:VAL:O	13:2R:51:LEU:N	2.44	0.50
13:2R:63:ARG:HH21	13:2R:80:PHE:HD2	1.58	0.50
18:2W:58:ALA:HB1	18:2W:64:MET:SD	2.51	0.50
26:24:30:GLU:C	26:24:31:ILE:HG13	2.37	0.50
32:2a:640:C:O2'	32:2a:641:G:H5'	2.12	0.50
32:2a:662:U:H2'	32:2a:663:C:H6	1.76	0.50
32:2a:953:A:H4'	32:2a:1340:U:O2	2.11	0.50
32:2a:1172:G:H5'	34:2c:176:HIS:CE1	2.47	0.50
32:2a:1189:2MG:H2'	32:2a:1190:C:C6	2.46	0.50
32:2a:1261:A:H2'	32:2a:1261:A:N3	2.26	0.50
32:2a:1348:G:H2'	32:2a:1349:C:H5'	1.93	0.50
39:2h:28:ALA:N	39:2h:57:PRO:O	2.33	0.50
47:2p:21:VAL:O	47:2p:33:ILE:HB	2.12	0.50
48:2q:6:LEU:HG	48:2q:23:VAL:CG1	2.41	0.50
48:2q:60:ILE:HG22	48:2q:72:ARG:O	2.11	0.50
1:1A:84:C:O2'	1:1A:85:C:H5'	2.12	0.50
1:1A:103:C:H1'	20:1Y:1:MET:SD	2.51	0.50
1:1A:291:G:O2'	1:1A:292:C:H5'	2.10	0.50
1:1A:303:C:N4	1:1A:383:G:H1	2.08	0.50
1:1A:873:U:H1'	1:1A:2257:G:O2'	2.11	0.50
1:1A:1041:A:OP2	16:1U:93:LYS:NZ	2.29	0.50
1:1A:1111:U:O4	1:1A:1114:A:H2'	2.11	0.50
1:1A:1113:G:HO2'	1:1A:1141:A:HO2'	1.31	0.50
1:1A:1223:C:O2'	1:1A:1224:C:H5'	2.11	0.50
1:1A:1304:G:O2'	1:1A:1305:G:H5'	2.11	0.50
1:1A:2189:G:H22	1:1A:2192:A:P	2.35	0.50
1:1A:2658:U:O2'	1:1A:2659:C:H5'	2.12	0.50
3:1D:77:ALA:CB	3:1D:97:TYR:CD1	2.92	0.50
3:1D:132:PRO:HG3	3:1D:190:TYR:HE1	1.76	0.50
6:1G:125:PHE:CZ	6:1G:173:LEU:HD12	2.46	0.50
11:1P:47:ASP:OD2	11:1P:49:ARG:NH2	2.44	0.50
12:1Q:29:PHE:HB3	12:1Q:65:PHE:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:16:38:LYS:HB2	28:16:49:HIS:CE1	2.46	0.50
32:1a:197:U:H2'	32:1a:198:G:H8	1.75	0.50
32:1a:271:G:O5'	48:1q:14:LYS:HB3	2.10	0.50
32:1a:530:G:O2'	32:1a:531:A:O5'	2.25	0.50
32:1a:1069:U:O2'	32:1a:1070:G:H5'	2.11	0.50
32:1a:1184:G:C4	45:1n:42:ILE:HD13	2.46	0.50
32:1a:1201:U:O2'	32:1a:1202:G:H5'	2.11	0.50
36:1e:128:PRO:C	36:1e:131:ILE:HG22	2.37	0.50
39:1h:23:SER:HA	39:1h:63:LEU:CD1	2.40	0.50
43:1l:114:LYS:O	43:1l:117:ARG:HD3	2.11	0.50
44:1m:37:THR:O	44:1m:55:ARG:NH1	2.36	0.50
47:1p:38:TYR:CE1	47:1p:50:LYS:HB3	2.47	0.50
51:1t:34:LYS:O	51:1t:38:LYS:HG2	2.11	0.50
1:2A:298:G:H2'	1:2A:299:A:H8	1.74	0.50
1:2A:639:A:H4'	5:2F:182:ASN:ND2	2.26	0.50
1:2A:1488:G:H1	1:2A:1594:C:H42	1.59	0.50
1:2A:1669:G:O2'	1:2A:1670:C:H5'	2.10	0.50
1:2A:1695:G:C2'	1:2A:1696:G:H5'	2.41	0.50
1:2A:2180:G:O2'	1:2A:2181:G:O5'	2.21	0.50
1:2A:2418:G:OP1	59:2A:3745:HOH:O	2.20	0.50
2:2B:17:C:O2'	2:2B:18:G:H5'	2.11	0.50
3:2D:34:VAL:O	3:2D:34:VAL:HG23	2.10	0.50
5:2F:20:LEU:HD23	5:2F:21:ALA:N	2.26	0.50
8:2I:4:ILE:HD11	8:2I:44:LEU:HD12	1.93	0.50
9:2N:96:GLU:HG2	9:2N:97:ARG:N	2.26	0.50
15:2T:9:LEU:O	15:2T:12:SER:OG	2.18	0.50
20:2Y:5:MET:HE1	20:2Y:69:ALA:CB	2.41	0.50
23:21:73:LEU:O	23:21:77:ALA:N	2.44	0.50
32:2a:391:C:O2'	32:2a:392:G:H5'	2.12	0.50
32:2a:480:A:H4'	32:2a:481:A:OP1	2.09	0.50
32:2a:543:A:H4'	32:2a:544:U:C3'	2.30	0.50
32:2a:669:G:O2'	32:2a:670:U:H5'	2.11	0.50
32:2a:1020:C:H5"	32:2a:1021:C:OP2	2.12	0.50
32:2a:1302:C:O4'	50:2s:73:GLU:HG2	2.12	0.50
32:2a:1360:A:O2'	32:2a:1361:C:OP2	2.17	0.50
32:2a:1485:A:H2'	32:2a:1486:G:H8	1.75	0.50
33:2b:46:LYS:O	33:2b:49:GLU:HB2	2.11	0.50
33:2b:163:PHE:CE2	33:2b:215:LEU:HD23	2.45	0.50
35:2d:79:PHE:CZ	35:2d:207:TYR:HB2	2.46	0.50
36:2e:87:SER:HB3	36:2e:131:ILE:HD13	1.94	0.50
37:2f:76:ALA:HB1	37:2f:80:ARG:NH1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2i:9:ARG:HG2	40:2i:14:VAL:HG12	1.93	0.50
44:2m:74:VAL:O	44:2m:77:ASN:HB2	2.12	0.50
1:1A:17:C:O2'	1:1A:576:U:OP1	2.23	0.50
1:1A:109:U:C2'	1:1A:110:G:H5'	2.41	0.50
1:1A:314:C:H42	1:1A:372:G:H1	1.60	0.50
1:1A:866:A:O2'	1:1A:867:A:H5'	2.11	0.50
1:1A:870:A:H1'	1:1A:2369:G:N7	2.26	0.50
1:1A:874:U:H2'	1:1A:875:A:C8	2.46	0.50
1:1A:949:C:H2'	1:1A:950:U:C6	2.47	0.50
1:1A:1218:A:C1'	1:1A:1219:U:H5'	2.42	0.50
1:1A:1960:5MU:OP1	1:1A:2615:U:O2'	2.29	0.50
4:1E:72:VAL:HG12	4:1E:73:GLU:O	2.10	0.50
6:1G:111:LEU:HA	6:1G:114:ILE:HD12	1.92	0.50
9:1N:99:LEU:HB2	59:1N:314:HOH:O	2.11	0.50
16:1U:79:PHE:CD1	16:1U:79:PHE:O	2.64	0.50
17:1V:19:LYS:HA	17:1V:94:LEU:O	2.12	0.50
23:11:91:LYS:O	23:11:95:LEU:HD13	2.11	0.50
32:1a:495:C:H1'	35:1d:43:HIS:HE2	1.76	0.50
32:1a:1205:C:O5'	32:1a:1206:G:H5'	2.12	0.50
34:1c:113:ALA:N	34:1c:202:ILE:HD12	2.26	0.50
36:1e:137:GLU:HA	36:1e:140:ARG:CB	2.36	0.50
40:1i:81:ILE:O	40:1i:84:ALA:N	2.43	0.50
41:1j:53:PRO:C	45:1n:41:ARG:HH22	2.19	0.50
41:1j:75:ILE:O	41:1j:77:PRO:HD3	2.11	0.50
1:2A:101:U:H2'	1:2A:102:C:H5'	1.92	0.50
1:2A:636:U:H5'	1:2A:639:A:N6	2.26	0.50
1:2A:908:G:H2'	1:2A:909:A:O4'	2.11	0.50
1:2A:1182:G:H21	9:2N:106:MET:HG2	1.76	0.50
1:2A:1258:A:H2'	1:2A:1259:G:O4'	2.11	0.50
1:2A:1636:G:O2'	1:2A:1637:C:H5'	2.11	0.50
1:2A:2273:U:H4'	1:2A:2339:A:H2	1.76	0.50
1:2A:2301:G:H2'	1:2A:2302:U:H5'	1.94	0.50
1:2A:2317:C:H3'	1:2A:2318:G:C8	2.46	0.50
1:2A:2547:G:C2'	1:2A:2548:U:H5'	2.42	0.50
1:2A:2605:C:H3'	59:2A:3618:HOH:O	2.10	0.50
1:2A:2722:A:OP2	59:2A:3888:HOH:O	2.19	0.50
1:2A:2879:C:H2'	1:2A:2880:C:H5'	1.94	0.50
3:2D:127:VAL:HA	3:2D:193:VAL:HG23	1.94	0.50
5:2F:164:ARG:HB3	5:2F:175:THR:CG2	2.40	0.50
6:2G:11:TYR:OH	6:2G:33:ARG:HB3	2.12	0.50
15:2T:49:VAL:HG23	15:2T:49:VAL:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2X:30:VAL:HG22	19:2X:77:LYS:O	2.11	0.50
21:2Z:104:PHE:N	21:2Z:104:PHE:HD1	2.10	0.50
22:20:40:GLN:NE2	22:20:43:THR:HA	2.27	0.50
28:26:9:LEU:N	28:26:23:THR:O	2.42	0.50
28:26:9:LEU:HD11	28:26:23:THR:HG23	1.93	0.50
32:2a:108:U:O2'	32:2a:109:G:H5'	2.12	0.50
32:2a:273:C:O2'	32:2a:274:G:H5'	2.12	0.50
32:2a:640:C:H1'	46:2o:28:GLN:NE2	2.26	0.50
32:2a:1121:G:H3'	32:2a:1121:G:N3	2.27	0.50
32:2a:1173:A:OP1	34:2c:4:LYS:HG3	2.12	0.50
32:2a:1382:C:H4'	32:2a:1383:5MC:C5'	2.33	0.50
33:2b:80:ILE:HD13	33:2b:211:ILE:HG22	1.93	0.50
40:2i:78:LYS:HA	40:2i:81:ILE:HG21	1.93	0.50
41:2j:17:ASP:HA	41:2j:20:ALA:HB3	1.93	0.50
42:2k:91:ARG:O	42:2k:95:ILE:HG13	2.10	0.50
46:2o:35:ARG:CZ	46:2o:59:MET:HE2	2.40	0.50
46:2o:63:ARG:HA	46:2o:66:LEU:HD13	1.92	0.50
1:1A:289:G:O2'	1:1A:290:G:H5'	2.12	0.50
1:1A:728:G:OP1	59:1A:4359:HOH:O	2.20	0.50
1:1A:930:C:H2'	1:1A:931:C:H5'	1.91	0.50
1:1A:1065:A:N6	1:1A:1186:U:OP2	2.42	0.50
1:1A:1092:G:H2'	1:1A:1155:G:N2	2.25	0.50
1:1A:1203:C:C2'	1:1A:1204:U:H5'	2.41	0.50
1:1A:1464:A:O2'	1:1A:1465:U:H5"	2.11	0.50
1:1A:1573:A:H2'	1:1A:1574:A:O4'	2.11	0.50
1:1A:2114:G:O2'	1:1A:2115:G:H5'	2.11	0.50
1:1A:2136:G:N3	1:1A:2138:A:N6	2.59	0.50
1:1A:2426:G:O4'	11:1P:67:MET:HG2	2.12	0.50
1:1A:2438:C:H5"	1:1A:2439:G:OP1	2.11	0.50
1:1A:2641:G:O4'	1:1A:2902:G:C1'	2.60	0.50
1:1A:2648:U:OP1	4:1E:82:ARG:NH1	2.44	0.50
1:1A:2898:C:H2'	1:1A:2899:G:O4'	2.11	0.50
5:1F:63:LYS:HE2	5:1F:67:GLN:HB2	1.92	0.50
26:14:40:HIS:O	26:14:44:THR:HG23	2.11	0.50
32:1a:180:A:H1'	51:1t:81:LYS:HZ3	1.76	0.50
32:1a:657:G:OP1	37:1f:87:ARG:NH1	2.45	0.50
33:1b:200:ILE:HG22	33:1b:202:PRO:CD	2.27	0.50
37:1f:15:ASP:O	37:1f:19:LEU:N	2.44	0.50
40:1i:23:ASN:OD1	40:1i:24:GLY:N	2.45	0.50
40:1i:49:PRO:HD2	40:1i:81:ILE:HD11	1.94	0.50
40:1i:125:TYR:CE2	40:1i:127:LYS:HB2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:1m:45:VAL:HG13	44:1m:48:LEU:HD12	1.93	0.50
51:1t:89:ARG:O	51:1t:92:LEU:N	2.44	0.50
52:1u:21:TYR:N	52:1u:21:TYR:CD1	2.79	0.50
1:2A:10:G:C2'	1:2A:11:U:H5'	2.40	0.50
1:2A:227:U:O2'	1:2A:228:G:H5'	2.11	0.50
1:2A:749:U:H2'	1:2A:750:G:C5'	2.41	0.50
1:2A:882:G:H5"	1:2A:883:C:OP2	2.12	0.50
1:2A:1565:U:C2'	1:2A:1566:G:H5'	2.40	0.50
1:2A:1606:G:C2'	1:2A:1607:G:H5'	2.41	0.50
1:2A:1815:A:OP1	59:2A:3883:HOH:O	2.19	0.50
1:2A:2774:G:H2'	1:2A:2775:G:H5'	1.93	0.50
4:2E:76:ARG:HB2	4:2E:77:ILE:HD12	1.94	0.50
8:2I:37:VAL:HG12	8:2I:38:LEU:N	2.26	0.50
13:2R:99:LYS:O	27:25:44:THR:HA	2.11	0.50
16:2U:10:ARG:HG2	16:2U:14:HIS:NE2	2.25	0.50
21:2Z:33:LEU:CD2	21:2Z:90:VAL:HG11	2.40	0.50
24:22:29:LYS:O	24:22:32:LEU:HB2	2.11	0.50
26:24:46:GLN:O	26:24:48:ARG:N	2.44	0.50
32:2a:331:C:H1'	32:2a:1416:A:C2	2.47	0.50
32:2a:696:A:O2'	32:2a:697:G:H5'	2.11	0.50
32:2a:969:U:H2'	32:2a:1194:U:O4	2.11	0.50
32:2a:1070:G:H2'	32:2a:1071:G:H8	1.76	0.50
34:2c:111:LEU:CD2	34:2c:146:ALA:HB2	2.41	0.50
35:2d:61:LYS:CD	35:2d:206:PHE:HE2	2.24	0.50
36:2e:18:ARG:CZ	36:2e:25:ARG:HB2	2.42	0.50
37:2f:27:GLN:O	37:2f:30:LEU:HB2	2.11	0.50
38:2g:62:PHE:HA	38:2g:65:ALA:HB3	1.94	0.50
40:2i:19:LEU:HD23	40:2i:61:ALA:CB	2.40	0.50
46:2o:74:ASP:OD2	46:2o:77:ARG:HB2	2.12	0.50
52:2u:9:ARG:NH1	52:2u:13:ILE:HD11	2.26	0.50
1:1A:340:G:N2	1:1A:341:C:H1'	2.27	0.50
1:1A:440:C:H2'	1:1A:441:A:H8	1.77	0.50
1:1A:1826:U:H2'	1:1A:1827:C:H6	1.75	0.50
1:1A:2135:A:O2'	1:1A:2188:U:O3'	2.29	0.50
1:1A:2277:A:H4'	1:1A:2278:A:N3	2.27	0.50
1:1A:2401:U:O2'	1:1A:2402:G:H5'	2.12	0.50
1:1A:2416:G:H3'	1:1A:2417:U:C5'	2.41	0.50
2:1B:90:A:N7	2:1B:91:C:H1'	2.27	0.50
4:1E:59:VAL:HG12	4:1E:64:LYS:HG3	1.94	0.50
6:1G:10:LYS:NZ	6:1G:176:LEU:O	2.27	0.50
8:1I:79:ILE:HD13	8:1I:92:VAL:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:51:PHE:CE1	9:1N:119:ARG:HD3	2.45	0.50
13:1R:57:ARG:O	13:1R:59:ASP:N	2.45	0.50
14:1S:34:HIS:CB	14:1S:36:TYR:HE1	2.25	0.50
16:1U:52:ARG:HA	16:1U:55:ARG:HG2	1.92	0.50
18:1W:14:PRO:C	18:1W:16:LYS:H	2.20	0.50
26:14:24:THR:C	26:14:25:TYR:HD1	2.19	0.50
28:16:52:VAL:HG22	28:16:53:LYS:N	2.27	0.50
32:1a:25:U:H2'	32:1a:26:C:C6	2.43	0.50
32:1a:103:A:H4'	32:1a:104:C:OP2	2.11	0.50
32:1a:222:G:O2'	32:1a:223:G:H5'	2.11	0.50
32:1a:385:A:C6	32:1a:386:C:H1'	2.47	0.50
32:1a:1134:A:HO2'	32:1a:1135:A:H8	1.59	0.50
32:1a:1270:A:H2'	32:1a:1271:A:O4'	2.11	0.50
32:1a:1342:A:H2'	32:1a:1343:G:C8	2.47	0.50
32:1a:1356:G:H4'	38:1g:31:MET:SD	2.51	0.50
34:1c:188:LEU:HD11	34:1c:195:VAL:HG12	1.92	0.50
38:1g:135:VAL:HG12	38:1g:139:GLU:CD	2.36	0.50
43:1l:98:TYR:HD1	43:1l:98:TYR:N	2.09	0.50
49:1r:29:PHE:CD1	49:1r:29:PHE:C	2.90	0.50
50:1s:32:LYS:HA	50:1s:50:ALA:HB3	1.93	0.50
1:2A:180:C:O2	1:2A:848:A:H1'	2.12	0.50
1:2A:198:C:H4'	1:2A:1412:A:H1'	1.94	0.50
1:2A:238:G:H2'	1:2A:239:A:C8	2.46	0.50
1:2A:521:A:H2'	1:2A:522:G:H5'	1.94	0.50
1:2A:638:G:H5"	1:2A:639:A:P	2.52	0.50
1:2A:738:C:O2'	1:2A:739:C:H5'	2.11	0.50
1:2A:936:A:H2'	1:2A:937:G:C5'	2.42	0.50
1:2A:1207:G:C2'	1:2A:1208:G:H5'	2.41	0.50
1:2A:1262:C:C2'	1:2A:1263:G:H5'	2.42	0.50
1:2A:1293:G:O2'	16:2U:3:ARG:HA	2.12	0.50
1:2A:2108:G:H2'	1:2A:2109:G:O4'	2.10	0.50
1:2A:2118:C:H2'	1:2A:2119:U:H6	1.76	0.50
1:2A:2202:G:H2'	1:2A:2203:G:O4'	2.12	0.50
1:2A:2263:G:O2'	1:2A:2264:G:H5'	2.11	0.50
1:2A:2650:A:C3'	9:2N:97:ARG:HH22	2.24	0.50
1:2A:2718:G:H5'	13:2R:68:ARG:NH2	2.26	0.50
3:2D:79:VAL:O	3:2D:113:VAL:HG23	2.12	0.50
3:2D:79:VAL:HG12	3:2D:113:VAL:HA	1.93	0.50
3:2D:147:LEU:HD11	3:2D:183:ARG:HE	1.77	0.50
3:2D:186:HIS:HE1	3:2D:188:GLU:HG2	1.76	0.50
6:2G:34:LEU:HD22	6:2G:159:VAL:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:2G:172:LEU:HA	6:2G:175:LEU:HB3	1.94	0.50
7:2H:103:LEU:O	7:2H:114:VAL:HA	2.11	0.50
8:2I:88:ILE:HD11	8:2I:123:LEU:HA	1.94	0.50
12:2Q:38:GLU:CG	12:2Q:127:ILE:HB	2.41	0.50
14:2S:39:ILE:CD1	14:2S:49:VAL:HB	2.38	0.50
16:2U:104:GLN:OE1	16:2U:104:GLN:N	2.38	0.50
17:2V:38:LEU:HD23	17:2V:51:VAL:HG12	1.94	0.50
28:26:5:VAL:HG13	28:26:6:ARG:N	2.27	0.50
28:26:18:ARG:HD2	28:26:42:TRP:CG	2.47	0.50
29:27:16:HIS:HB3	29:27:44:PRO:HG2	1.93	0.50
32:2a:199:U:O2'	51:2t:57:ARG:HG2	2.11	0.50
32:2a:561:G:O2'	32:2a:562:C:H5'	2.11	0.50
32:2a:664:C:H2'	32:2a:665:C:H5'	1.93	0.50
32:2a:693:G:O2'	32:2a:694:G:H5'	2.11	0.50
32:2a:886:A:O2'	32:2a:887:A:H5'	2.12	0.50
32:2a:1494:G:H2'	32:2a:1496:MA6:OP2	2.12	0.50
33:2b:160:ASP:O	33:2b:161:ALA:HB2	2.10	0.50
34:2c:124:ILE:HG13	34:2c:189:ALA:CB	2.42	0.50
35:2d:13:ARG:HG2	35:2d:39:PRO:HA	1.94	0.50
42:2k:29:ILE:HG23	42:2k:44:SER:HB3	1.94	0.50
42:2k:109:VAL:CG2	49:2r:84:LYS:HB3	2.42	0.50
43:2l:93:LEU:O	43:2l:96:VAL:HB	2.11	0.50
47:2p:74:LEU:HB3	47:2p:79:VAL:CB	2.41	0.50
48:2q:40:LYS:HD3	48:2q:42:TYR:CZ	2.46	0.50
51:2t:63:ILE:CD1	51:2t:81:LYS:HG2	2.41	0.50
1:1A:290:G:O2'	1:1A:291:G:H5'	2.12	0.50
1:1A:373:U:O2'	1:1A:374:G:H5'	2.11	0.50
1:1A:655:A:OP1	11:1P:65:ARG:NH1	2.44	0.50
1:1A:794:G:C8	18:1W:89:ALA:HB1	2.47	0.50
1:1A:951:G:OP1	12:1Q:26:TYR:OH	2.30	0.50
1:1A:1164:C:H2'	1:1A:1165:G:H5'	1.93	0.50
1:1A:1667:G:O2'	1:1A:1668:G:H5'	2.12	0.50
1:1A:2261:G:HO2'	1:1A:2507:C:P	2.26	0.50
1:1A:2335:C:H5"	1:1A:2336:G:H5'	1.93	0.50
1:1A:2385:C:C2'	1:1A:2386:G:H5'	2.41	0.50
1:1A:2609:A:N7	1:1A:2610:G:H1'	2.26	0.50
1:1A:2850:C:H3'	59:1A:4333:HOH:O	2.11	0.50
2:1B:119:G:H2'	2:1B:120:A:H5'	1.92	0.50
4:1E:7:VAL:CG1	4:1E:27:LEU:HB3	2.41	0.50
5:1F:129:PHE:CD2	5:1F:163:VAL:HG11	2.47	0.50
9:1N:18:ALA:HA	9:1N:21:LYS:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1O:7:TYR:C	10:1O:8:LEU:HD22	2.36	0.50
12:1Q:55:VAL:CG1	12:1Q:64:ILE:HD12	2.41	0.50
12:1Q:92:GLY:C	12:1Q:93:TYR:HD1	2.20	0.50
22:10:15:ASP:OD1	22:10:16:SER:N	2.41	0.50
26:14:56:VAL:HG23	26:14:57:GLU:H	1.76	0.50
32:1a:69:G:H2'	32:1a:70:G:O4'	2.11	0.50
32:1a:97:C:C2'	32:1a:98:G:H5'	2.42	0.50
32:1a:125:A:OP2	48:1q:63:ARG:HD3	2.12	0.50
32:1a:823:U:O2'	32:1a:824:C:H5'	2.12	0.50
32:1a:895:G:H8	32:1a:895:G:O5'	1.95	0.50
32:1a:910:C:H4'	38:1g:4:ARG:NH2	2.26	0.50
32:1a:1031:G:H4'	45:1n:2:ALA:N	2.26	0.50
32:1a:1203:G:O3'	50:1s:77:THR:HB	2.12	0.50
32:1a:1425:G:C1'	32:1a:1426:G:OP1	2.59	0.50
32:1a:1464:G:H2'	32:1a:1465:G:O4'	2.12	0.50
33:1b:16:HIS:HB2	33:1b:204:ASN:CB	2.42	0.50
33:1b:68:ILE:N	33:1b:90:MET:HE2	2.23	0.50
35:1d:58:LEU:CD2	35:1d:59:ARG:HH21	2.25	0.50
35:1d:78:LEU:CD2	35:1d:139:ARG:HH21	2.24	0.50
35:1d:178:VAL:CG1	35:1d:179:GLU:H	2.20	0.50
37:1f:19:LEU:HD21	37:1f:59:TYR:HE2	1.77	0.50
39:1h:104:ARG:O	39:1h:104:ARG:HG3	2.12	0.50
41:1j:45:ARG:HG3	41:1j:47:PHE:CE2	2.47	0.50
45:1n:26:ARG:HH11	45:1n:43:CYS:HG	1.58	0.50
51:1t:44:ALA:HB1	51:1t:91:LEU:HB2	1.94	0.50
1:2A:124:A:H5"	1:2A:125:C:O4'	2.11	0.50
1:2A:337:A:O2'	1:2A:338:G:H5'	2.12	0.50
1:2A:550:A:H5"	1:2A:551:C:OP1	2.11	0.50
1:2A:611:C:H2'	1:2A:612:A:C8	2.46	0.50
1:2A:841:C:O2'	1:2A:842:C:H5'	2.12	0.50
1:2A:1018:G:OP1	1:2A:1231:G:O2'	2.24	0.50
1:2A:1167:G:H2'	1:2A:1168:C:H5'	1.94	0.50
1:2A:1834:C:C2'	1:2A:1835:U:H5'	2.42	0.50
1:2A:2250:G:H5'	3:2D:251:GLY:HA3	1.93	0.50
1:2A:2737:A:H1'	1:2A:2738:U:H2'	1.94	0.50
3:2D:177:LEU:HB3	3:2D:178:PRO:CD	2.40	0.50
4:2E:180:ASN:HB3	59:2E:410:HOH:O	2.11	0.50
5:2F:30:PRO:HG3	11:2P:1:MET:HE1	1.93	0.50
6:2G:106:LEU:HD12	6:2G:110:ALA:CB	2.36	0.50
6:2G:120:LEU:N	6:2G:179:PRO:O	2.33	0.50
7:2H:99:VAL:HG21	7:2H:104:GLU:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:108:PRO:HD3	21:2Z:141:VAL:HG23	1.92	0.50
25:23:43:ILE:O	25:23:47:VAL:HG23	2.11	0.50
31:29:10:ILE:HG21	31:29:32:HIS:CD2	2.46	0.50
32:2a:64:C:H2'	32:2a:65:G:H5'	1.94	0.50
32:2a:95:A:H2	32:2a:147:A:HO2'	1.57	0.50
32:2a:140:G:H1	32:2a:172:C:H42	1.59	0.50
32:2a:310:C:O2	32:2a:349:A:H2	1.95	0.50
32:2a:690:A:H5"	42:2k:22:HIS:CE1	2.46	0.50
32:2a:925:G:H2'	32:2a:926:C:C6	2.47	0.50
32:2a:1477:A:OP2	59:2a:1919:HOH:O	2.19	0.50
33:2b:122:PHE:O	33:2b:123:ALA:HB3	2.11	0.50
34:2c:186:PHE:CD1	34:2c:198:VAL:O	2.65	0.50
1:1A:705:C:HO2'	1:1A:706:G:H5'	1.76	0.50
1:1A:830:A:C5	3:1D:229:VAL:HG21	2.46	0.50
1:1A:1348:G:O2'	1:1A:1349:C:H5'	2.12	0.50
1:1A:1396:C:H5"	1:1A:1397:U:OP2	2.12	0.50
1:1A:1665:G:O2'	1:1A:1666:U:H5'	2.12	0.50
1:1A:2273:U:C2'	1:1A:2274:C:H5'	2.42	0.50
1:1A:2304:C:O2'	1:1A:2305:C:H5'	2.11	0.50
1:1A:2636:G:H2'	1:1A:2637:C:O4'	2.12	0.50
3:1D:9:TYR:HE1	3:1D:13:ARG:CG	2.09	0.50
6:1G:104:GLU:O	6:1G:108:ASN:HB2	2.12	0.50
14:1S:15:ARG:NH2	59:1S:301:HOH:O	2.42	0.50
15:1T:78:LEU:N	59:1T:8103:HOH:O	2.43	0.50
18:1W:36:LEU:HD13	18:1W:48:ALA:CA	2.42	0.50
18:1W:46:PHE:CD1	18:1W:46:PHE:N	2.79	0.50
21:1Z:3:TYR:HE2	21:1Z:50:GLN:HB2	1.77	0.50
21:1Z:14:LYS:O	21:1Z:18:LEU:HD13	2.11	0.50
21:1Z:91:LEU:HD11	21:1Z:130:PRO:HG3	1.94	0.50
26:14:16:CYS:HB3	26:14:20:ASN:HB3	1.93	0.50
32:1a:63:U:H5"	32:1a:381:C:H1'	1.93	0.50
32:1a:164:C:H2'	32:1a:165:U:C6	2.47	0.50
32:1a:179:G:O2'	32:1a:180:A:H5'	2.12	0.50
32:1a:243:G:O2'	32:1a:278:A:N1	2.38	0.50
32:1a:294:A:H5"	32:1a:295:G:OP2	2.11	0.50
32:1a:415:C:C2'	32:1a:416:U:H5'	2.42	0.50
32:1a:457:G:H2'	32:1a:457:G:N3	2.26	0.50
32:1a:493:A:H2	32:1a:528:G:O4'	1.95	0.50
32:1a:844:C:O4'	32:1a:897:A:H5'	2.12	0.50
32:1a:955:A:H2'	32:1a:955:A:N3	2.27	0.50
32:1a:1053:U:P	36:1e:20:GLN:HE22	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1059:C:C2’	32:1a:1060:G:H5’	2.42	0.50
33:1b:88:ALA:O	33:1b:90:MET:HG3	2.12	0.50
40:1i:42:ARG:NH2	40:1i:75:ASP:OD1	2.44	0.50
40:1i:89:ASN:HB3	40:1i:92:TYR:CG	2.46	0.50
44:1m:20:THR:C	44:1m:22:ILE:H	2.20	0.50
46:1o:29:VAL:HG13	46:1o:63:ARG:CG	2.39	0.50
1:2A:107:G:O2’	1:2A:108:A:H5’	2.12	0.50
1:2A:213:A:O2’	1:2A:245:A:H5”	2.11	0.50
1:2A:504:A:H4’	1:2A:505:A:H5’	1.93	0.50
1:2A:747:G:H1	1:2A:777:C:N4	2.09	0.50
1:2A:786:U:O2’	1:2A:787:G:H5’	2.12	0.50
1:2A:896:C:O2’	25:23:49:LYS:HE3	2.12	0.50
1:2A:1182:G:O2’	9:2N:105:GLY:HA3	2.11	0.50
1:2A:1248:A:OP1	1:2A:1248:A:H8	1.95	0.50
1:2A:1827:C:H3’	3:2D:274:ARG:HH22	1.76	0.50
1:2A:1854:G:C2’	1:2A:1855:A:H5’	2.42	0.50
1:2A:2019:G:O2’	1:2A:2020:C:H5’	2.11	0.50
1:2A:2062:U:C2’	1:2A:2063:A:H5’	2.41	0.50
1:2A:2125:G:N1	1:2A:2206:C:O2	2.44	0.50
1:2A:2298:A:O2’	1:2A:2299:A:H3’	2.12	0.50
1:2A:2584:C:OP1	1:2A:2585:G:H5”	2.12	0.50
4:2E:31:CYS:HA	4:2E:50:GLY:O	2.11	0.50
8:2I:109:ILE:O	8:2I:111:PRO:HD3	2.11	0.50
8:2I:123:LEU:HA	8:2I:144:VAL:HG11	1.93	0.50
13:2R:83:ILE:HA	13:2R:86:ARG:HD3	1.92	0.50
18:2W:70:TYR:O	18:2W:72:LYS:N	2.44	0.50
18:2W:86:LEU:HB2	18:2W:96:ILE:CD1	2.42	0.50
20:2Y:44:ILE:HD13	20:2Y:64:GLU:HA	1.94	0.50
21:2Z:74:VAL:HG23	21:2Z:86:VAL:HG22	1.93	0.50
27:25:40:LYS:HD2	27:25:46:CYS:HB2	1.93	0.50
32:2a:89:G:H2’	32:2a:90:U:O4’	2.11	0.50
32:2a:121:G:C2’	32:2a:122:G:H5’	2.41	0.50
32:2a:660:A:O2’	32:2a:661:U:H5’	2.11	0.50
32:2a:1050:A:H2’	32:2a:1076:A:H4’	1.94	0.50
32:2a:1064:G:O2’	32:2a:1065:G:H5’	2.11	0.50
32:2a:1203:G:H4’	50:2s:53:ASN:O	2.11	0.50
32:2a:1368:G:H2’	32:2a:1369:G:H8	1.77	0.50
38:2g:137:LYS:HG3	38:2g:141:VAL:HG21	1.93	0.50
52:2u:5:ASP:CG	52:2u:8:THR:HG23	2.37	0.50
1:1A:852:C:O2	1:1A:2455:G:O2’	2.14	0.50
1:1A:1136:G:O2’	1:1A:1137:C:H5’	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2043:U:O2'	1:1A:2628:C:H5'	2.11	0.50
1:1A:2113:U:O4	59:1A:4353:HOH:O	2.19	0.50
1:1A:2171:U:H2'	1:1A:2172:G:C8	2.46	0.50
1:1A:2211:G:H2'	1:1A:2212:G:O4'	2.12	0.50
1:1A:2351:G:H2'	1:1A:2352:G:H8	1.74	0.50
4:1E:34:VAL:CG2	4:1E:48:GLN:HG2	2.42	0.50
4:1E:37:ARG:HD3	4:1E:42:ASP:OD2	2.11	0.50
4:1E:125:GLY:HA3	4:1E:134:ILE:CD1	2.42	0.50
8:1I:57:ARG:O	8:1I:60:GLU:HB3	2.12	0.50
15:1T:115:ARG:HD2	15:1T:115:ARG:N	2.26	0.50
18:1W:10:VAL:HG11	18:1W:46:PHE:HD2	1.77	0.50
20:1Y:15:VAL:HG21	20:1Y:42:VAL:HG11	1.94	0.50
32:1a:204:A:H4'	32:1a:205:G:O5'	2.12	0.50
32:1a:433:U:O2	35:1d:119:GLN:NE2	2.45	0.50
32:1a:476:G:H2'	32:1a:477:G:O4'	2.12	0.50
32:1a:553:C:H5"	32:1a:554:G:OP1	2.12	0.50
32:1a:567:A:H2'	32:1a:568:G:O4'	2.11	0.50
32:1a:597:C:O2'	32:1a:598:A:H5'	2.11	0.50
32:1a:901:A:H2'	32:1a:902:C:H6	1.76	0.50
32:1a:983:A:N7	32:1a:1019:G:N1	2.59	0.50
32:1a:1015:G:H2'	32:1a:1016:G:O5'	2.12	0.50
32:1a:1087:G:O2'	32:1a:1088:A:H5'	2.11	0.50
32:1a:1094:A:H2'	32:1a:1095:C:H6	1.75	0.50
32:1a:1155:G:H2'	32:1a:1156:G:H8	1.76	0.50
32:1a:1310:C:H5"	44:1m:28:ALA:HB1	1.93	0.50
32:1a:1422:C:O2'	32:1a:1423:C:H5'	2.12	0.50
32:1a:1460:G:O6	59:1a:2064:HOH:O	2.19	0.50
33:1b:51:LEU:HD23	33:1b:201:ILE:CD1	2.36	0.50
33:1b:178:ARG:CD	39:1h:71:GLY:O	2.59	0.50
35:1d:162:LEU:O	35:1d:165:MET:HB2	2.11	0.50
37:1f:37:VAL:HG12	37:1f:38:GLU:N	2.25	0.50
42:1k:29:ILE:HA	42:1k:44:SER:HB3	1.94	0.50
47:1p:50:LYS:HG3	47:1p:51:VAL:N	2.26	0.50
1:2A:76:A:H2'	1:2A:77:G:H8	1.77	0.50
1:2A:349:G:H1	1:2A:359:C:H42	1.58	0.50
1:2A:719:C:OP1	5:2F:54:ARG:NH1	2.45	0.50
1:2A:733:C:H2'	1:2A:734:U:C5'	2.42	0.50
1:2A:787:G:O2'	1:2A:788:G:H5'	2.12	0.50
1:2A:788:G:O2'	1:2A:789:G:H5'	2.12	0.50
1:2A:863:C:O2'	1:2A:864:G:H5'	2.12	0.50
1:2A:1096:G:H5"	1:2A:1097:C:P	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1125:C:H2'	1:2A:1126:U:H6	1.76	0.50
1:2A:1449:C:O2'	1:2A:1450:U:H5'	2.12	0.50
1:2A:1864:U:H5"	1:2A:1865:G:OP1	2.12	0.50
1:2A:2151:U:O3'	1:2A:2154:G:H4'	2.11	0.50
1:2A:2406:C:H42	1:2A:2432:G:H1	1.59	0.50
5:2F:192:LEU:CD2	5:2F:194:MET:HG3	2.42	0.50
7:2H:41:MET:HE1	7:2H:61:HIS:O	2.12	0.50
7:2H:107:VAL:O	7:2H:107:VAL:HG23	2.11	0.50
13:2R:26:LYS:HE2	13:2R:70:LEU:O	2.12	0.50
14:2S:66:ALA:HB1	14:2S:101:LEU:HB2	1.93	0.50
15:2T:26:ASP:O	15:2T:49:VAL:HG22	2.12	0.50
15:2T:101:PHE:CE2	15:2T:105:LEU:HD11	2.46	0.50
17:2V:4:ILE:HG22	17:2V:11:GLN:HB3	1.94	0.50
21:2Z:128:VAL:HG22	21:2Z:129:SER:N	2.26	0.50
23:21:89:GLU:O	23:21:92:LYS:HB2	2.12	0.50
26:24:15:ILE:HD13	26:24:21:VAL:HG22	1.94	0.50
27:25:30:LEU:HD22	27:25:40:LYS:C	2.36	0.50
32:2a:96:G:O6	59:2a:1935:HOH:O	2.19	0.50
32:2a:503:C:H2'	32:2a:504:A:H8	1.77	0.50
32:2a:590:G:N2	32:2a:615:G:N7	2.60	0.50
32:2a:658:G:P	37:2f:87:ARG:HH22	2.34	0.50
32:2a:703:C:O2	49:2r:50:ILE:HG13	2.11	0.50
32:2a:939:U:O5'	32:2a:939:U:H6	1.94	0.50
32:2a:1166:G:O2'	32:2a:1167:G:H5'	2.12	0.50
32:2a:1356:G:OP2	40:2i:71:SER:OG	2.23	0.50
33:2b:25:ASN:HD22	33:2b:193:ASP:HA	1.77	0.50
33:2b:28:PHE:O	33:2b:31:TYR:N	2.29	0.50
35:2d:54:TYR:O	35:2d:58:LEU:N	2.42	0.50
36:2e:10:MET:HA	36:2e:32:VAL:HG22	1.93	0.50
36:2e:86:ALA:O	36:2e:125:SER:N	2.38	0.50
37:2f:4:TYR:HD2	37:2f:90:VAL:CG1	2.24	0.50
38:2g:116:ALA:O	38:2g:117:ALA:C	2.55	0.50
39:2h:9:MET:SD	39:2h:36:LEU:HD21	2.52	0.50
39:2h:112:LEU:CD1	39:2h:114:THR:HG23	2.42	0.50
42:2k:50:TYR:HB3	42:2k:54:ARG:HG2	1.94	0.50
48:2q:99:SER:O	48:2q:100:LYS:HB3	2.12	0.50
1:1A:323:A:H1'	1:1A:342:C:O4'	2.11	0.49
1:1A:425:G:OP2	59:1A:4361:HOH:O	2.20	0.49
1:1A:622:G:N2	1:1A:627:C:O3'	2.45	0.49
1:1A:652:G:H5"	30:18:18:ALA:HB2	1.94	0.49
1:1A:777:C:OP1	59:1A:4360:HOH:O	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:788:G:H2'	1:1A:789:G:C8	2.47	0.49
1:1A:1173:A:O2'	1:1A:1174:A:OP2	2.22	0.49
1:1A:2140:A:O2'	1:1A:2141:G:H5'	2.12	0.49
1:1A:2318:G:H1	6:1G:43:LEU:C	2.20	0.49
3:1D:66:ASP:HB2	3:1D:103:ARG:CD	2.42	0.49
3:1D:70:TRP:HB3	3:1D:190:TYR:CD2	2.46	0.49
8:1I:10:GLU:OE1	8:1I:10:GLU:N	2.43	0.49
12:1Q:14:ARG:HG2	12:1Q:41:TRP:HH2	1.76	0.49
13:1R:66:VAL:HG12	13:1R:70:LEU:HD12	1.93	0.49
32:1a:365:C:O2'	32:1a:366:C:H5'	2.12	0.49
32:1a:936:A:N3	32:1a:963:C:O2'	2.43	0.49
32:1a:1078:U:H2'	32:1a:1079:C:O4'	2.12	0.49
32:1a:1208:C:O4'	50:1s:83:HIS:HE1	1.94	0.49
32:1a:1277:G:HO2'	44:1m:14:ARG:NH1	2.05	0.49
32:1a:1298:G:H22	32:1a:1301:A:P	2.35	0.49
32:1a:1442:G:H2'	32:1a:1443:C:H6	1.76	0.49
32:1a:1461:A:H5"	32:1a:1462:C:OP2	2.11	0.49
34:1c:184:TYR:CE1	34:1c:201:TYR:CE1	2.98	0.49
39:1h:21:LYS:N	39:1h:65:TYR:OH	2.45	0.49
47:1p:19:ILE:HD11	47:1p:74:LEU:CD1	2.42	0.49
1:2A:135:G:H2'	1:2A:137:G:N7	2.27	0.49
1:2A:661:A:C8	11:2P:117:GLU:HG3	2.46	0.49
1:2A:851:G:H5"	11:2P:38:GLN:HG3	1.93	0.49
1:2A:1198:C:H5'	16:2U:76:TYR:CE2	2.46	0.49
1:2A:2403:A:N3	11:2P:61:ARG:HG2	2.27	0.49
1:2A:2572:A:H2	10:2O:23:ARG:NH1	2.10	0.49
1:2A:2603:G:C2'	1:2A:2604:U:H5'	2.42	0.49
1:2A:2627:C:O2'	1:2A:2628:C:H5'	2.11	0.49
1:2A:2647:U:H4'	4:2E:80:GLU:OE1	2.12	0.49
1:2A:2854:G:O2'	1:2A:2855:G:H5'	2.12	0.49
2:2B:60:C:O2'	2:2B:61:G:H5'	2.11	0.49
4:2E:76:ARG:CB	4:2E:77:ILE:HD12	2.42	0.49
6:2G:37:VAL:HG23	6:2G:99:MET:CG	2.37	0.49
7:2H:77:LYS:HA	7:2H:80:SER:OG	2.11	0.49
8:2I:73:GLU:HG2	8:2I:139:GLN:O	2.11	0.49
10:2O:10:VAL:HG23	10:2O:10:VAL:O	2.12	0.49
12:2Q:26:TYR:O	12:2Q:67:ARG:NH1	2.37	0.49
12:2Q:46:GLN:O	12:2Q:49:ALA:HB3	2.12	0.49
32:2a:36:G:H2'	32:2a:37:C:C6	2.47	0.49
32:2a:181:C:O2'	51:2t:85:MET:SD	2.48	0.49
32:2a:536:U:C5'	43:2l:87:GLY:HA2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:734:G:O2'	46:2o:21:ASP:OD1	2.30	0.49
32:2a:737:A:H4'	32:2a:738:C:C5'	2.42	0.49
32:2a:822:G:H1	32:2a:826:C:N4	2.10	0.49
32:2a:1043:C:O2'	32:2a:1044:G:H5'	2.12	0.49
32:2a:1199:C:O2'	32:2a:1200:C:H5'	2.12	0.49
32:2a:1392:C:N4	32:2a:1469:G:H1	2.04	0.49
34:2c:8:ILE:C	34:2c:10:PHE:H	2.20	0.49
41:2j:45:ARG:HB3	41:2j:65:LEU:HB3	1.93	0.49
43:2l:90:VAL:HG11	43:2l:93:LEU:HD12	1.94	0.49
1:1A:505:A:H2'	1:1A:506:G:OP1	2.12	0.49
1:1A:863:C:C2'	1:1A:864:G:H5'	2.43	0.49
1:1A:1829:G:OP1	3:1D:260:ARG:NE	2.44	0.49
1:1A:1899:G:H2'	1:1A:1900:C:H6	1.73	0.49
1:1A:2829:A:H2'	1:1A:2829:A:N3	2.27	0.49
6:1G:127:GLY:HA2	6:1G:166:ASP:CG	2.36	0.49
6:1G:171:ALA:O	6:1G:175:LEU:HD13	2.13	0.49
7:1H:72:ILE:O	7:1H:76:VAL:HG23	2.13	0.49
10:1O:69:ILE:O	10:1O:69:ILE:HG13	2.11	0.49
15:1T:5:ALA:O	15:1T:9:LEU:N	2.43	0.49
16:1U:70:ARG:HA	16:1U:74:LEU:O	2.12	0.49
16:1U:86:ALA:O	17:1V:49:THR:HG23	2.12	0.49
17:1V:29:PRO:HA	17:1V:61:VAL:CG1	2.42	0.49
18:1W:4:LYS:HA	18:1W:105:VAL:O	2.12	0.49
21:1Z:99:TYR:CD1	21:1Z:125:LEU:HD13	2.48	0.49
26:14:1:MET:HE2	26:14:6:HIS:CG	2.47	0.49
32:1a:44:C:H42	32:1a:395:G:H1	1.60	0.49
32:1a:125:A:O2'	32:1a:126:C:O5'	2.31	0.49
32:1a:156:A:O2'	32:1a:157:A:H5'	2.12	0.49
32:1a:182:C:H2'	32:1a:183:C:H6	1.76	0.49
32:1a:372:G:O3'	47:1p:5:ARG:NH1	2.28	0.49
32:1a:372:G:OP1	47:1p:67:THR:OG1	2.23	0.49
32:1a:477:G:H2'	32:1a:478:G:H8	1.76	0.49
32:1a:657:G:O3'	37:1f:87:ARG:NH2	2.43	0.49
32:1a:1352:C:H2'	32:1a:1353:G:C8	2.47	0.49
32:1a:1444:C:H2'	32:1a:1445:G:O4'	2.13	0.49
34:1c:47:LEU:O	34:1c:50:ALA:N	2.44	0.49
34:1c:124:ILE:HG13	34:1c:125:GLU:N	2.27	0.49
35:1d:8:VAL:CG2	35:1d:21:LEU:HD13	2.42	0.49
35:1d:90:GLY:O	35:1d:94:LEU:HG	2.13	0.49
35:1d:156:GLU:OE1	35:1d:156:GLU:N	2.43	0.49
40:1i:41:VAL:C	40:1i:43:ALA:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:1m:89:GLY:O	44:1m:93:ARG:N	2.42	0.49
47:1p:38:TYR:CD1	47:1p:50:LYS:HB3	2.47	0.49
1:2A:176:G:C2'	1:2A:177:G:H5'	2.42	0.49
1:2A:243:A:H1'	1:2A:410:U:C6	2.47	0.49
1:2A:471:G:OP2	59:2A:3894:HOH:O	2.20	0.49
1:2A:1010:G:O2'	1:2A:1011:C:H5'	2.12	0.49
1:2A:1454:C:O2'	1:2A:1455:G:H5'	2.12	0.49
1:2A:1507:G:O2'	1:2A:1508:C:H5'	2.11	0.49
1:2A:1754:C:H2'	1:2A:1755:U:C6	2.46	0.49
1:2A:1849:A:H4'	1:2A:1851:A:C8	2.47	0.49
1:2A:1854:G:O2'	1:2A:1855:A:H5'	2.13	0.49
1:2A:2107:U:P	3:2D:263:ARG:HE	2.35	0.49
1:2A:2254:U:OP1	59:2A:3889:HOH:O	2.19	0.49
1:2A:2358:C:O3'	28:26:21:TYR:HE1	1.94	0.49
1:2A:2700:U:C1'	1:2A:2701:C:OP2	2.58	0.49
3:2D:146:GLU:HB2	3:2D:189:CYS:HB3	1.94	0.49
5:2F:75:HIS:O	59:2F:404:HOH:O	2.20	0.49
6:2G:11:TYR:HA	6:2G:15:VAL:CG2	2.42	0.49
8:2I:69:LYS:HZ3	8:2I:136:VAL:HG13	1.77	0.49
9:2N:33:LEU:HA	9:2N:38:HIS:CE1	2.46	0.49
10:2O:107:ARG:CG	10:2O:115:VAL:HG21	2.42	0.49
12:2Q:68:ILE:O	12:2Q:68:ILE:HG13	2.12	0.49
15:2T:11:GLU:CD	15:2T:57:PHE:HB3	2.37	0.49
23:21:14:VAL:HG11	23:21:39:LYS:HD3	1.94	0.49
23:21:89:GLU:O	23:21:92:LYS:N	2.45	0.49
24:22:41:ILE:HD11	24:22:43:GLN:HB2	1.94	0.49
24:22:68:ARG:O	24:22:70:GLN:N	2.44	0.49
31:29:26:ILE:O	31:29:27:CYS:HB2	2.11	0.49
32:2a:40:G:O2'	32:2a:41:C:H5'	2.12	0.49
32:2a:323:A:O2'	32:2a:324:C:C4'	2.60	0.49
32:2a:583:C:H4'	39:2h:130:GLY:CA	2.42	0.49
32:2a:647:A:C2'	32:2a:648:G:H5'	2.42	0.49
32:2a:941:G:N2	32:2a:950:C:N3	2.57	0.49
32:2a:1134:A:C4'	41:2j:39:PRO:HB2	2.42	0.49
32:2a:1157:G:H2'	32:2a:1158:A:H8	1.75	0.49
32:2a:1294:G:H1	32:2a:1307:C:N4	2.10	0.49
35:2d:108:LEU:O	35:2d:108:LEU:HG	2.12	0.49
37:2f:78:GLU:O	37:2f:81:ILE:HG22	2.12	0.49
38:2g:113:GLU:CG	38:2g:118:VAL:HG12	2.33	0.49
39:2h:20:TYR:HE2	39:2h:76:PRO:CD	2.26	0.49
41:2j:8:LEU:CB	41:2j:16:LEU:HD22	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:120:ARG:HH12	42:2k:126:ARG:NH2	2.10	0.49
43:2l:27:LEU:HB3	43:2l:30:ALA:O	2.12	0.49
49:2r:47:THR:HG21	49:2r:49:LYS:HE3	1.93	0.49
52:2u:21:TYR:N	52:2u:21:TYR:HD1	2.11	0.49
1:1A:732:G:O5'	29:17:11:LYS:HE2	2.12	0.49
1:1A:1217:G:O2'	1:1A:1218:A:P	2.69	0.49
1:1A:1345:U:O2'	1:1A:1681:G:OP1	2.27	0.49
1:1A:1595:C:O2'	1:1A:1770:G:N2	2.45	0.49
1:1A:1741:G:H8	3:1D:8:PRO:O	1.96	0.49
1:1A:2148:G:H2'	1:1A:2149:C:H6	1.77	0.49
1:1A:2200:C:H2'	1:1A:2201:U:H6	1.76	0.49
1:1A:2282:G:OP1	22:10:18:ALA:HB1	2.12	0.49
1:1A:2632:A:O2'	4:1E:159:HIS:HD2	1.95	0.49
3:1D:206:LEU:HA	3:1D:211:ARG:NE	2.28	0.49
9:1N:27:ALA:CB	9:1N:103:VAL:HG22	2.42	0.49
11:1P:70:GLN:O	11:1P:73:GLY:HA2	2.12	0.49
13:1R:55:ALA:HA	13:1R:80:PHE:CE1	2.46	0.49
13:1R:103:ARG:HD3	18:1W:40:ASN:ND2	2.27	0.49
21:1Z:2:GLU:C	21:1Z:3:TYR:HD1	2.20	0.49
23:11:69:LYS:HD3	23:11:72:GLU:OE1	2.12	0.49
32:1a:90:U:O2'	32:1a:91:G:H5'	2.12	0.49
32:1a:404:A:O2'	32:1a:405:G:H5'	2.12	0.49
32:1a:415:C:O2'	32:1a:416:U:H5'	2.13	0.49
32:1a:642:G:O2'	32:1a:643:U:H5'	2.12	0.49
32:1a:669:G:O2'	32:1a:670:U:H5'	2.11	0.49
32:1a:1115:C:C6	32:1a:1115:C:C3'	2.95	0.49
32:1a:1140:A:H4'	32:1a:1141:C:C5'	2.43	0.49
32:1a:1339:A:C2'	32:1a:1340:U:H5'	2.41	0.49
34:1c:179:ARG:O	34:1c:179:ARG:HG3	2.11	0.49
37:1f:97:PHE:N	49:1r:30:ASP:OD1	2.35	0.49
38:1g:135:VAL:O	38:1g:139:GLU:HG3	2.12	0.49
40:1i:22:GLY:H	40:1i:60:ASP:H	1.60	0.49
42:1k:34:ASP:HB3	42:1k:40:ILE:HD11	1.93	0.49
43:1l:56:ALA:HB2	43:1l:70:ILE:HD11	1.93	0.49
43:1l:79:GLU:O	43:1l:80:HIS:HB2	2.12	0.49
44:1m:65:LYS:HZ1	44:1m:73:GLU:HB2	1.77	0.49
47:1p:15:PRO:HB3	47:1p:17:TYR:HE1	1.76	0.49
48:1q:4:LYS:HG3	48:1q:6:LEU:CD1	2.43	0.49
48:1q:53:LEU:CG	48:1q:82:MET:HE1	2.36	0.49
1:2A:376:G:C2'	1:2A:377:G:H5'	2.42	0.49
1:2A:556:A:H4'	1:2A:557:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:873:U:O2	1:2A:2257:G:H4'	2.11	0.49
1:2A:1419:G:H2'	1:2A:1420:C:H6	1.77	0.49
1:2A:1586:U:H2'	1:2A:1587:G:O4'	2.12	0.49
1:2A:1716:C:O2'	1:2A:2015:C:H4'	2.11	0.49
1:2A:1743:G:OP2	1:2A:1744:A:O2'	2.20	0.49
1:2A:2333:A:H2'	1:2A:2334:G:O4'	2.11	0.49
1:2A:2364:G:H1	1:2A:2375:C:H42	1.60	0.49
1:2A:2846:G:H1	1:2A:2890:C:H42	1.60	0.49
3:2D:177:LEU:HB3	3:2D:178:PRO:HD2	1.93	0.49
8:2I:58:LEU:O	8:2I:61:ARG:N	2.36	0.49
10:2O:1:MET:HE3	10:2O:32:TYR:CE2	2.47	0.49
11:2P:64:LYS:HE3	30:28:12:LYS:CB	2.33	0.49
17:2V:35:LEU:HB2	17:2V:57:VAL:HG22	1.92	0.49
19:2X:94:GLY:N	19:2X:95:LEU:HA	2.28	0.49
20:2Y:36:ALA:HA	20:2Y:67:LEU:O	2.12	0.49
26:24:59:PHE:CZ	50:2s:67:VAL:HG21	2.46	0.49
32:2a:148:C:H2'	32:2a:149:C:C6	2.47	0.49
32:2a:255:G:O2'	32:2a:256:G:H5'	2.11	0.49
32:2a:327:G:OP1	32:2a:328:G:H8	1.95	0.49
32:2a:366:C:H2'	32:2a:367:G:H8	1.76	0.49
32:2a:487:C:O2	32:2a:494:A:H2	1.96	0.49
32:2a:643:U:OP1	46:2o:8:LYS:HD3	2.12	0.49
32:2a:653:U:C2'	32:2a:654:G:H5'	2.42	0.49
32:2a:803:A:H4'	32:2a:804:U:OP2	2.12	0.49
32:2a:1106:A:O2'	41:2j:36:GLY:O	2.28	0.49
32:2a:1187:U:O2'	34:2c:195:VAL:HG23	2.12	0.49
32:2a:1273:G:H5"	40:2i:39:GLY:HA3	1.94	0.49
32:2a:1498:G:H2'	32:2a:1499:G:C8	2.45	0.49
33:2b:8:LYS:CG	33:2b:9:GLU:H	2.17	0.49
34:2c:131:ARG:NH2	34:2c:135:LYS:HE3	2.28	0.49
49:2r:37:VAL:HA	49:2r:40:LEU:HB2	1.94	0.49
52:2u:21:TYR:N	52:2u:21:TYR:CD1	2.79	0.49
1:1A:54:A:N3	59:1A:4518:HOH:O	2.35	0.49
1:1A:268:G:O2'	1:1A:269:C:H5'	2.12	0.49
1:1A:1341:G:O2'	1:1A:1342:C:H5'	2.11	0.49
1:1A:1413:G:O2'	1:1A:1414:G:H5'	2.12	0.49
1:1A:1825:C:O2'	1:1A:1922:A:OP1	2.28	0.49
1:1A:1913:C:H2'	1:1A:1914:C:H5'	1.95	0.49
3:1D:159:ALA:C	3:1D:161:THR:H	2.20	0.49
3:1D:172:TYR:HE2	3:1D:269:PHE:CE1	2.29	0.49
5:1F:54:ARG:O	5:1F:54:ARG:CG	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:160:ASN:ND2	5:1F:163:VAL:HG23	2.28	0.49
6:1G:181:ARG:HG3	6:1G:182:LYS:H	1.76	0.49
9:1N:30:ILE:HG22	9:1N:34:LEU:HD13	1.93	0.49
16:1U:8:VAL:HG22	16:1U:8:VAL:O	2.12	0.49
20:1Y:20:TYR:CE2	20:1Y:43:ASN:N	2.81	0.49
23:11:3:LYS:O	23:11:12:PRO:HD3	2.12	0.49
32:1a:42:G:H2'	32:1a:43:G:C8	2.47	0.49
32:1a:314:G:HO2'	32:1a:1446:A:HO2'	1.56	0.49
32:1a:344:G:C2'	32:1a:345:A:H5'	2.41	0.49
32:1a:608:C:O2'	32:1a:609:G:H5'	2.12	0.49
32:1a:1022:C:O2'	32:1a:1023:U:H5'	2.13	0.49
32:1a:1185:C:OP1	45:1n:3:ARG:HD2	2.11	0.49
32:1a:1242:C:O2'	32:1a:1243:A:O5'	2.30	0.49
32:1a:1328:A:OP1	40:1i:120:ARG:NH1	2.45	0.49
32:1a:1329:G:HO2'	32:1a:1330:U:P	2.35	0.49
32:1a:1433:C:C2'	32:1a:1434:G:OP2	2.60	0.49
32:1a:1457:C:H2'	32:1a:1458:G:O4'	2.12	0.49
32:1a:1496:MA6:C6	32:1a:1497:MA6:H103	2.42	0.49
33:1b:25:ASN:OD1	33:1b:26:PRO:HD2	2.11	0.49
33:1b:170:GLU:O	33:1b:174:VAL:HG23	2.12	0.49
35:1d:140:VAL:HG13	35:1d:144:ASP:OD2	2.13	0.49
36:1e:105:VAL:HG11	36:1e:131:ILE:CG2	2.42	0.49
37:1f:8:ILE:HG22	37:1f:10:LEU:HD12	1.93	0.49
37:1f:78:GLU:O	37:1f:81:ILE:HG22	2.12	0.49
38:1g:30:ILE:HG22	38:1g:39:ALA:HA	1.94	0.49
48:1q:25:ARG:HE	48:1q:38:ARG:HB2	1.78	0.49
50:1s:41:VAL:HG12	50:1s:44:MET:SD	2.53	0.49
50:1s:51:VAL:CG2	50:1s:71:LEU:HD22	2.41	0.49
51:1t:79:ARG:HD2	51:1t:83:ARG:CZ	2.42	0.49
52:1u:14:TRP:HE3	52:1u:15:ARG:HB2	1.76	0.49
1:2A:752:A:H2'	1:2A:753:G:O4'	2.12	0.49
1:2A:1227:G:O2'	25:23:29:ARG:NH1	2.43	0.49
1:2A:2606:G:O3'	59:2A:3892:HOH:O	2.20	0.49
15:2T:70:VAL:HG12	15:2T:71:GLY:O	2.12	0.49
18:2W:6:ILE:CG1	18:2W:104:THR:HG23	2.42	0.49
23:21:17:SER:HB2	23:21:40:ARG:CD	2.42	0.49
32:2a:212:G:H2'	32:2a:213:C:H6	1.77	0.49
32:2a:450:C:H42	32:2a:462:G:H1	1.60	0.49
32:2a:557:A:N3	32:2a:861:C:O2'	2.38	0.49
32:2a:608:C:C5'	47:2p:11:SER:HB3	2.42	0.49
32:2a:676:U:O4	42:2k:53:SER:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:689:U:H5"	32:2a:690:A:OP2	2.12	0.49
32:2a:1307:C:O2'	32:2a:1308:C:H5'	2.12	0.49
35:2d:58:LEU:HD22	35:2d:59:ARG:NH2	2.27	0.49
36:2e:86:ALA:O	36:2e:124:GLY:HA3	2.11	0.49
36:2e:127:ASN:OD1	36:2e:128:PRO:HD2	2.12	0.49
40:2i:20:ARG:O	40:2i:60:ASP:N	2.46	0.49
42:2k:66:LEU:O	42:2k:70:LYS:N	2.35	0.49
42:2k:110:ASP:OD1	42:2k:112:THR:OG1	2.20	0.49
44:2m:34:LEU:HD13	44:2m:41:PRO:CA	2.42	0.49
48:2q:31:LEU:HD23	48:2q:32:TYR:CE2	2.48	0.49
50:2s:12:ASP:OD2	50:2s:35:SER:HB3	2.12	0.49
50:2s:60:VAL:O	50:2s:62:ILE:HD12	2.12	0.49
52:2u:7:ARG:O	52:2u:21:TYR:CD2	2.65	0.49
1:1A:290:G:H1	1:1A:393:C:N4	2.10	0.49
1:1A:442:C:O2'	1:1A:443:C:H5'	2.11	0.49
1:1A:460:U:H4'	59:1A:4187:HOH:O	2.10	0.49
1:1A:1710:A:H1'	1:1A:2696:G:O2'	2.11	0.49
1:1A:2361:C:H2'	1:1A:2362:G:C5'	2.42	0.49
1:1A:2650:A:C2'	1:1A:2651:G:H5'	2.42	0.49
4:1E:19:ARG:NH1	10:1O:72:PRO:HB3	2.28	0.49
4:1E:144:ARG:O	4:1E:148:GLY:HA2	2.11	0.49
5:1F:40:GLN:HE22	5:1F:182:ASN:HB2	1.76	0.49
5:1F:113:ALA:HB2	5:1F:183:VAL:HG23	1.94	0.49
14:1S:92:TYR:CB	14:1S:98:VAL:HG21	2.42	0.49
16:1U:79:PHE:CE1	16:1U:83:LEU:CD1	2.95	0.49
17:1V:62:LEU:HD11	17:1V:95:LEU:CB	2.37	0.49
19:1X:53:LYS:HB3	19:1X:82:GLN:HB3	1.95	0.49
21:1Z:104:PHE:N	21:1Z:104:PHE:CD1	2.80	0.49
26:14:67:TYR:CD2	50:1s:16:LEU:CD1	2.92	0.49
32:1a:137:G:H2'	32:1a:138:A:C8	2.46	0.49
32:1a:148:C:H42	32:1a:164:C:N4	2.10	0.49
32:1a:359:A:OP1	43:1l:33:ARG:HA	2.12	0.49
32:1a:402:G:H21	35:1d:119:GLN:NE2	2.07	0.49
32:1a:426:A:O2'	32:1a:427:A:H5'	2.12	0.49
32:1a:503:C:H2'	32:1a:504:A:C8	2.47	0.49
32:1a:529:C:OP2	35:1d:65:ARG:NH2	2.46	0.49
32:1a:773:U:H2'	32:1a:775:G:N7	2.27	0.49
32:1a:1096:C:C2'	32:1a:1097:C:H5'	2.42	0.49
32:1a:1209:A:H5'	44:1m:111:LYS:NZ	2.28	0.49
33:1b:151:GLY:HA2	33:1b:154:LEU:CD1	2.36	0.49
33:1b:164:VAL:HB	33:1b:186:ALA:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:8:ILE:HD11	34:1c:16:ARG:NH1	2.27	0.49
34:1c:14:ILE:HD11	45:1n:57:ARG:NH2	2.26	0.49
35:1d:39:PRO:HB2	35:1d:44:GLY:HA2	1.95	0.49
36:1e:39:GLY:HA2	36:1e:69:VAL:HG22	1.94	0.49
39:1h:111:ILE:HG23	39:1h:118:VAL:CG1	2.43	0.49
40:1i:80:GLY:C	40:1i:83:ARG:HB3	2.37	0.49
43:1l:53:ARG:HD2	43:1l:93:LEU:CD1	2.38	0.49
51:1t:38:LYS:O	51:1t:41:ILE:N	2.46	0.49
1:2A:401:C:O2'	1:2A:402:C:H5'	2.11	0.49
1:2A:555:C:H4'	1:2A:556:A:C5'	2.31	0.49
1:2A:858:C:HO2'	1:2A:1271:A:HO2'	1.61	0.49
1:2A:1778:G:H2'	1:2A:1779:A:C8	2.47	0.49
1:2A:1806:G:H1	1:2A:1818:C:H42	1.60	0.49
1:2A:2643:A:O2'	1:2A:2644:G:H5'	2.13	0.49
1:2A:2685:G:H4'	10:2O:30:ALA:HB2	1.94	0.49
1:2A:2813:C:C2'	1:2A:2814:C:H5'	2.42	0.49
5:2F:53:THR:HG22	5:2F:56:GLU:HG3	1.94	0.49
5:2F:101:LEU:HD12	5:2F:102:PRO:CD	2.42	0.49
13:2R:57:ARG:HH21	13:2R:62:ALA:HB2	1.77	0.49
21:2Z:42:VAL:HG13	21:2Z:43:GLU:HG3	1.94	0.49
21:2Z:48:PHE:HD1	21:2Z:52:SER:CA	2.22	0.49
59:26:601:HOH:O	30:28:32:LEU:HD12	2.12	0.49
32:2a:726:G:O2'	32:2a:727:U:H5'	2.13	0.49
32:2a:949:G:C8	32:2a:1348:G:H4'	2.47	0.49
32:2a:1339:A:H3'	32:2a:1340:U:C6	2.47	0.49
33:2b:83:MET:HE1	33:2b:234:PRO:HB2	1.94	0.49
34:2c:14:ILE:HD11	45:2n:57:ARG:NH2	2.27	0.49
35:2d:41:GLY:C	35:2d:43:HIS:H	2.20	0.49
35:2d:111:ALA:HB2	35:2d:120:LEU:HD11	1.92	0.49
36:2e:6:PHE:CE1	36:2e:36:ASP:HB3	2.48	0.49
38:2g:126:ASP:HB3	38:2g:131:LYS:HB2	1.95	0.49
44:2m:99:ARG:HB2	44:2m:101:GLN:NE2	2.18	0.49
1:1A:55:C:H2'	1:1A:56:G:O4'	2.12	0.49
1:1A:346:G:HO2'	1:1A:1249:U:H3	1.59	0.49
1:1A:589:A:H4'	1:1A:854:G:OP1	2.12	0.49
1:1A:653:G:H4'	1:1A:674:C:O2	2.12	0.49
1:1A:916:A:C2'	1:1A:917:U:H5'	2.42	0.49
1:1A:1100:G:N1	1:1A:1149:C:O2	2.46	0.49
1:1A:1369:G:H1	1:1A:1375:C:H42	1.59	0.49
1:1A:1391:G:C2'	1:1A:1392:G:H5'	2.42	0.49
1:1A:1486:G:H2'	1:1A:1487:G:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1553:A:H4'	1:1A:1555:A:N7	2.28	0.49
1:1A:1775:G:C2'	1:1A:1776:G:H5'	2.43	0.49
1:1A:1981:A:O2'	32:1a:1462:C:O2'	2.06	0.49
1:1A:2205:G:H2'	1:1A:2206:C:C6	2.47	0.49
2:1B:76:G:H5"	21:1Z:15:PRO:HG2	1.95	0.49
4:1E:33:VAL:O	4:1E:33:VAL:HG23	2.11	0.49
6:1G:96:ARG:O	6:1G:99:MET:HB3	2.12	0.49
8:1I:40:THR:O	8:1I:44:LEU:HD22	2.13	0.49
11:1P:62:LEU:O	30:18:13:ARG:NE	2.41	0.49
21:1Z:133:ILE:HG22	21:1Z:134:PRO:O	2.13	0.49
26:14:61:ARG:HH21	50:1s:9:VAL:HG11	1.76	0.49
28:16:21:TYR:HD1	28:16:21:TYR:N	2.10	0.49
32:1a:372:G:C3'	47:1p:5:ARG:HH11	2.25	0.49
32:1a:404:A:OP1	35:1d:113:SER:OG	2.16	0.49
32:1a:461:G:C2'	32:1a:462:G:H5'	2.43	0.49
32:1a:798:A:OP2	59:1a:2066:HOH:O	2.20	0.49
32:1a:1142:U:O4'	32:1a:1164:G:N2	2.46	0.49
32:1a:1172:G:O2'	34:1c:3:ASN:HB2	2.12	0.49
33:1b:98:LEU:HB2	33:1b:101:MET:CE	2.41	0.49
33:1b:128:GLU:O	33:1b:128:GLU:HG2	2.13	0.49
33:1b:155:LEU:HD21	33:1b:159:PRO:CG	2.43	0.49
37:1f:14:LEU:HD11	37:1f:84:ASN:ND2	2.26	0.49
45:1n:42:ILE:HG22	45:1n:46:GLU:OE2	2.13	0.49
1:2A:276:G:O2'	1:2A:277:G:H5'	2.12	0.49
1:2A:542:G:C4'	18:2W:18:ARG:NH1	2.72	0.49
1:2A:902:C:HO2'	1:2A:903:C:P	2.35	0.49
1:2A:947:C:O2'	1:2A:948:C:H5'	2.13	0.49
1:2A:1072:A:C2	1:2A:2499:A:H5'	2.47	0.49
1:2A:1309:G:H5'	27:25:11:THR:OG1	2.13	0.49
1:2A:1494:G:H2'	1:2A:1495:A:C8	2.48	0.49
1:2A:2145:G:H3'	1:2A:2146:G:H8	1.77	0.49
1:2A:2412:U:P	28:26:18:ARG:HH12	2.35	0.49
1:2A:2674:G:C2'	1:2A:2675:G:H5'	2.42	0.49
1:2A:2778:G:H2'	1:2A:2779:C:H5'	1.95	0.49
1:2A:2818:A:O2'	1:2A:2819:A:H5'	2.12	0.49
3:2D:133:LEU:HD13	3:2D:173:VAL:CG2	2.42	0.49
3:2D:269:PHE:CD1	3:2D:269:PHE:N	2.80	0.49
4:2E:137:HIS:HB3	4:2E:138:PRO:HD2	1.95	0.49
5:2F:64:ILE:HG13	5:2F:65:TRP:H	1.78	0.49
7:2H:41:MET:CE	7:2H:61:HIS:O	2.60	0.49
7:2H:85:LYS:O	7:2H:133:VAL:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2I:81:VAL:N	8:2I:145:VAL:O	2.38	0.49
8:2I:127:VAL:HA	8:2I:140:LEU:O	2.12	0.49
11:2P:98:GLU:CD	11:2P:98:GLU:H	2.20	0.49
17:2V:40:LEU:HD12	17:2V:46:VAL:CG1	2.41	0.49
20:2Y:2:ARG:NH2	20:2Y:4:LYS:HE2	2.28	0.49
27:25:6:VAL:HG13	27:25:7:PRO:HD2	1.94	0.49
28:26:9:LEU:HD23	28:26:25:LYS:HG2	1.95	0.49
32:2a:129:A:H61	47:2p:25:ARG:HH22	1.60	0.49
32:2a:251:G:H2'	32:2a:252:U:C6	2.46	0.49
32:2a:309:A:H2'	32:2a:310:C:H6	1.78	0.49
32:2a:378:A:H2'	32:2a:379:A:H8	1.76	0.49
32:2a:555:U:O2	32:2a:896:A:H5'	2.13	0.49
32:2a:656:U:O2'	32:2a:657:G:H5'	2.12	0.49
32:2a:891:A:C1'	32:2a:892:A:OP2	2.59	0.49
32:2a:1209:A:OP1	50:2s:80:TYR:OH	2.18	0.49
32:2a:1210:C:P	44:2m:111:LYS:HD3	2.53	0.49
33:2b:91:PRO:O	33:2b:92:TYR:HB3	2.12	0.49
36:2e:32:VAL:HG12	36:2e:33:VAL:O	2.11	0.49
36:2e:90:VAL:O	36:2e:120:THR:HA	2.13	0.49
37:2f:76:ALA:HB1	37:2f:80:ARG:NH2	2.27	0.49
46:2o:29:VAL:HG13	46:2o:63:ARG:HG3	1.95	0.49
47:2p:20:VAL:HG22	47:2p:21:VAL:H	1.77	0.49
51:2t:57:ARG:O	51:2t:60:GLU:HB3	2.12	0.49
1:1A:19:C:O2'	1:1A:20:A:H5'	2.12	0.49
1:1A:62:A:O2'	1:1A:63:C:H5'	2.12	0.49
1:1A:201:A:H2'	1:1A:202:G:O4'	2.13	0.49
1:1A:639:A:C4	5:1F:180:GLY:HA3	2.48	0.49
1:1A:1348:G:H2'	1:1A:1349:C:H5'	1.93	0.49
1:1A:1357:U:OP2	19:1X:63:LYS:NZ	2.26	0.49
1:1A:1927:G:C8	1:1A:1950:G:H2'	2.48	0.49
1:1A:2124:C:H2'	1:1A:2125:G:H5'	1.94	0.49
1:1A:2234:G:H2'	1:1A:2235:G:C5'	2.42	0.49
1:1A:2401:U:OP2	30:18:35:GLN:NE2	2.34	0.49
1:1A:2416:G:HO2'	1:1A:2417:U:P	2.34	0.49
1:1A:2468:U:C2'	1:1A:2469:G:H5'	2.43	0.49
1:1A:2693:U:C5	4:1E:11:MET:HE2	2.47	0.49
3:1D:25:THR:OG1	3:1D:82:ILE:N	2.37	0.49
3:1D:52:ARG:HG3	59:1D:436:HOH:O	2.11	0.49
10:1O:16:ALA:HA	10:1O:46:ALA:HB2	1.93	0.49
14:1S:87:PHE:CZ	14:1S:102:ALA:HB2	2.47	0.49
17:1V:72:VAL:HG13	17:1V:72:VAL:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:68:ARG:HG3	19:1X:69:TYR:CD1	2.48	0.49
27:15:6:VAL:HG22	27:15:7:PRO:HD2	1.95	0.49
32:1a:47:G:H1	32:1a:391:C:N4	2.11	0.49
32:1a:125:A:OP2	48:1q:63:ARG:NE	2.46	0.49
32:1a:389:A:H5'	32:1a:468:C:HO2'	1.77	0.49
32:1a:397:C:OP1	35:1d:73:ARG:NH2	2.45	0.49
32:1a:751:A:O2'	32:1a:1502:C:O2	2.27	0.49
32:1a:847:G:H4'	32:1a:850:A:C8	2.47	0.49
32:1a:1063:A:H5'	36:1e:16:THR:HG21	1.95	0.49
32:1a:1111:C:O2'	32:1a:1112:C:H5'	2.11	0.49
32:1a:1185:C:C2'	32:1a:1186:A:H5'	2.42	0.49
32:1a:1203:G:OP1	50:1s:36:ARG:HD3	2.12	0.49
32:1a:1325:G:H2'	32:1a:1326:C:H6	1.69	0.49
32:1a:1339:A:H61	32:1a:1346:A:H2	1.60	0.49
35:1d:3:ARG:HD3	35:1d:118:ARG:NE	2.27	0.49
35:1d:68:TYR:OH	35:1d:98:GLU:OE2	2.23	0.49
38:1g:79:ARG:HH12	38:1g:82:GLY:CA	2.24	0.49
42:1k:61:ALA:CB	42:1k:94:ALA:HB2	2.35	0.49
48:1q:62:SER:CB	48:1q:72:ARG:HG3	2.43	0.49
49:1r:67:ALA:O	49:1r:71:LYS:N	2.31	0.49
1:2A:336:C:C2'	1:2A:337:A:H5'	2.43	0.49
1:2A:792:A:O2'	1:2A:793:U:OP1	2.24	0.49
1:2A:1118:A:HO2'	1:2A:1119:G:P	2.32	0.49
1:2A:1705:U:O2'	1:2A:1706:C:H5'	2.12	0.49
1:2A:1716:C:H5"	59:2A:3797:HOH:O	2.12	0.49
1:2A:1722:A:H2'	1:2A:1723:A:O4'	2.12	0.49
1:2A:1824:U:H2'	1:2A:1825:C:C6	2.48	0.49
1:2A:2132:C:OP2	1:2A:2132:C:H2'	2.13	0.49
1:2A:2361:C:H2'	1:2A:2362:G:C8	2.47	0.49
1:2A:2389:A:C2	14:2S:18:ILE:HD13	2.48	0.49
6:2G:134:GLY:HA2	6:2G:156:ASP:HA	1.95	0.49
6:2G:135:LEU:HB2	6:2G:155:MET:CG	2.37	0.49
10:2O:113:LYS:O	10:2O:117:LEU:HD12	2.13	0.49
13:2R:104:ARG:HB2	13:2R:111:LEU:HD21	1.95	0.49
14:2S:93:LYS:CD	14:2S:95:HIS:HB2	2.43	0.49
17:2V:5:VAL:O	17:2V:11:GLN:HA	2.12	0.49
20:2Y:75:ILE:HD13	20:2Y:82:PRO:HB3	1.94	0.49
22:20:23:VAL:HG22	22:20:38:VAL:HG22	1.95	0.49
22:20:43:THR:OG1	22:20:46:LYS:HG2	2.12	0.49
24:22:30:ARG:O	24:22:34:GLU:HG2	2.13	0.49
24:22:31:GLU:O	24:22:34:GLU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:24:1:MET:HE2	26:24:6:HIS:CG	2.47	0.49
32:2a:122:G:H2'	32:2a:123:U:H5'	1.94	0.49
32:2a:262:G:H8	32:2a:264:C:OP2	1.95	0.49
32:2a:503:C:O2'	32:2a:504:A:H5'	2.13	0.49
32:2a:548:C:H5'	48:2q:32:TYR:HE1	1.76	0.49
32:2a:568:G:H5"	48:2q:91:ARG:HH22	1.75	0.49
32:2a:1199:C:H2'	32:2a:1200:C:H6	1.77	0.49
33:2b:90:MET:CE	33:2b:222:ILE:HD12	2.43	0.49
33:2b:121:LEU:HG	33:2b:127:ILE:HG23	1.94	0.49
35:2d:79:PHE:HE1	35:2d:204:ILE:HD13	1.77	0.49
35:2d:100:ARG:HB3	35:2d:102:ASP:OD1	2.12	0.49
36:2e:31:LEU:CD1	36:2e:129:ILE:HA	2.43	0.49
43:2l:103:GLY:N	43:2l:107:ALA:O	2.44	0.49
44:2m:97:PRO:CD	44:2m:110:ARG:HG2	2.42	0.49
46:2o:4:THR:HG23	46:2o:6:GLU:HB2	1.94	0.49
49:2r:43:PHE:N	49:2r:43:PHE:HD1	2.10	0.49
50:2s:50:ALA:HB1	50:2s:57:HIS:HB3	1.94	0.49
1:1A:199:A:O2'	1:1A:200:G:H5'	2.12	0.49
1:1A:439:C:O2'	1:1A:1901:C:H1'	2.13	0.49
1:1A:551:C:N4	1:1A:2791:U:OP2	2.43	0.49
1:1A:551:C:H42	1:1A:2791:U:P	2.35	0.49
1:1A:615:G:O2'	59:1A:4248:HOH:O	2.11	0.49
1:1A:1116:G:H1'	1:1A:1134:G:N7	2.27	0.49
1:1A:1875:G:C2'	1:1A:1876:G:H5'	2.42	0.49
1:1A:2018:G:O2'	1:1A:2019:G:H5'	2.13	0.49
1:1A:2390:G:H4'	14:1S:21:THR:CG2	2.43	0.49
2:1B:31:C:O2'	2:1B:53:A:N1	2.44	0.49
3:1D:146:GLU:HB2	3:1D:189:CYS:HB3	1.95	0.49
3:1D:165:ILE:HG12	3:1D:175:LEU:HD21	1.95	0.49
6:1G:102:PHE:O	6:1G:106:LEU:N	2.46	0.49
17:1V:72:VAL:HG11	17:1V:85:LYS:HD2	1.94	0.49
18:1W:41:LYS:CE	27:15:25:LEU:HD21	2.41	0.49
20:1Y:34:LYS:HG2	20:1Y:34:LYS:O	2.12	0.49
21:1Z:28:MET:HE1	21:1Z:61:LEU:CD2	2.40	0.49
32:1a:226:G:N2	32:1a:227:G:H1'	2.27	0.49
32:1a:287:C:C2'	32:1a:288:G:H5'	2.43	0.49
32:1a:395:G:O2'	32:1a:396:C:H5'	2.13	0.49
32:1a:430:U:O2'	32:1a:431:C:H5'	2.12	0.49
32:1a:445:G:C5'	32:1a:446:A:H3'	2.38	0.49
32:1a:1212:C:OP2	59:1a:2065:HOH:O	2.20	0.49
32:1a:1263:U:H2'	32:1a:1264:C:H6	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1359:U:P	38:1g:94:ARG:HH22	2.36	0.49
34:1c:6:HIS:O	34:1c:10:PHE:HB2	2.13	0.49
34:1c:112:SER:HB3	34:1c:115:LEU:HB3	1.94	0.49
35:1d:75:PHE:CE1	35:1d:93:PHE:HZ	2.30	0.49
36:1e:128:PRO:O	36:1e:131:ILE:HG22	2.13	0.49
37:1f:14:LEU:HB3	37:1f:18:GLN:CB	2.42	0.49
38:1g:20:ASP:OD1	38:1g:21:VAL:N	2.46	0.49
40:1i:94:ALA:O	40:1i:95:LYS:CB	2.61	0.49
40:1i:114:TYR:HD2	41:1j:60:ARG:HB2	1.78	0.49
47:1p:15:PRO:HB3	47:1p:17:TYR:CE1	2.47	0.49
47:1p:42:ARG:O	47:1p:43:LYS:HB2	2.12	0.49
50:1s:22:LEU:HD22	50:1s:26:GLY:O	2.13	0.49
1:2A:8:U:O2'	1:2A:9:G:P	2.68	0.49
1:2A:461:C:C2'	1:2A:462:C:H5'	2.41	0.49
1:2A:629:U:C2'	1:2A:630:A:H5'	2.43	0.49
1:2A:798:A:H4'	1:2A:799:C:C5'	2.43	0.49
1:2A:1022:G:N3	1:2A:1046:A:H2	2.11	0.49
1:2A:1518:A:O2'	1:2A:1519:G:H5'	2.13	0.49
1:2A:1570:G:H2'	1:2A:1571:G:C8	2.48	0.49
1:2A:1873:C:H42	1:2A:1918:G:H1	1.60	0.49
1:2A:1877:A:N3	1:2A:1877:A:H2'	2.28	0.49
1:2A:1885:G:O2'	1:2A:1886:G:H5'	2.12	0.49
1:2A:1938:PSU:O4	1:2A:1938:PSU:H2'	2.12	0.49
1:2A:2121:G:H1	1:2A:2210:U:H3	1.60	0.49
1:2A:2136:G:N1	1:2A:2140:A:OP2	2.40	0.49
1:2A:2332:G:H2'	1:2A:2332:G:N3	2.26	0.49
1:2A:2394:G:C2'	1:2A:2395:G:H5'	2.43	0.49
1:2A:2510:C:OP1	59:2A:3609:HOH:O	2.20	0.49
1:2A:2596:U:OP2	1:2A:2613:A:N6	2.46	0.49
1:2A:2617:C:C2'	1:2A:2618:G:H5'	2.42	0.49
1:2A:2824:C:H5"	27:25:29:THR:HG21	1.95	0.49
1:2A:2858:U:H1'	1:2A:2875:U:O2	2.13	0.49
1:2A:2904:C:N4	1:2A:2905:U:O4	2.46	0.49
3:2D:206:LEU:O	3:2D:211:ARG:HD3	2.13	0.49
4:2E:95:ILE:C	4:2E:96:PHE:HD1	2.21	0.49
10:2O:73:ASP:HB2	15:2T:82:LEU:HD22	1.94	0.49
13:2R:63:ARG:HA	13:2R:80:PHE:CZ	2.48	0.49
13:2R:80:PHE:O	13:2R:85:PRO:HD3	2.12	0.49
16:2U:85:LYS:NZ	16:2U:117:GLN:HA	2.28	0.49
17:2V:12:TYR:HD1	17:2V:12:TYR:N	2.11	0.49
18:2W:17:VAL:CG2	18:2W:76:VAL:HG11	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:20:14:ARG:O	22:20:15:ASP:HB2	2.12	0.49
24:22:51:ARG:O	24:22:55:ARG:HG3	2.11	0.49
25:23:18:ASP:O	25:23:21:ALA:HB3	2.12	0.49
32:2a:56:A:H2'	32:2a:56:A:N3	2.27	0.49
32:2a:190:U:O4	48:2q:72:ARG:NH1	2.46	0.49
32:2a:415:C:H42	32:2a:420:G:H1	1.60	0.49
32:2a:673:C:N4	32:2a:682:G:H1	2.08	0.49
32:2a:1168:G:H21	45:2n:61:TRP:C	2.19	0.49
33:2b:84:GLU:HB3	33:2b:219:VAL:HG21	1.95	0.49
34:2c:139:GLN:O	34:2c:143:GLU:HG3	2.12	0.49
37:2f:50:TYR:C	37:2f:50:TYR:CD1	2.90	0.49
40:2i:8:GLY:O	40:2i:14:VAL:HA	2.13	0.49
42:2k:50:TYR:CB	42:2k:54:ARG:HG3	2.43	0.49
47:2p:44:THR:HG23	47:2p:45:THR:N	2.27	0.49
49:2r:29:PHE:CD2	49:2r:39:VAL:HG11	2.48	0.49
49:2r:60:ALA:O	49:2r:63:GLN:HB3	2.13	0.49
50:2s:52:TYR:HE1	50:2s:55:LYS:C	2.21	0.49
1:1A:793:U:H1'	18:1W:92:ARG:HH22	1.78	0.49
1:1A:990:G:H2'	1:1A:991:G:C8	2.48	0.49
1:1A:1251:C:O2'	1:1A:1252:C:H5'	2.13	0.49
1:1A:1429:A:N3	1:1A:1450:U:H1'	2.28	0.49
1:1A:1532:G:H1	1:1A:1547:C:H42	1.60	0.49
1:1A:1547:C:O2'	1:1A:1548:U:H5'	2.13	0.49
1:1A:1691:G:H5"	1:1A:1692:C:H5'	1.93	0.49
1:1A:1804:C:OP2	59:1A:4358:HOH:O	2.20	0.49
1:1A:2144:G:C3'	1:1A:2145:G:H8	2.25	0.49
1:1A:2648:U:H2'	1:1A:2649:G:H5'	1.95	0.49
1:1A:2652:G:H5'	9:1N:76:SER:CB	2.41	0.49
1:1A:2825:C:O2	1:1A:2892:A:O2'	2.21	0.49
5:1F:143:ALA:HB1	5:1F:148:LEU:HB2	1.94	0.49
5:1F:158:THR:C	5:1F:178:PRO:HD3	2.37	0.49
6:1G:83:ARG:H	6:1G:86:MET:CE	2.26	0.49
6:1G:104:GLU:HG3	6:1G:108:ASN:ND2	2.27	0.49
8:1I:77:LEU:O	8:1I:142:VAL:HA	2.13	0.49
8:1I:109:ILE:HG13	8:1I:110:ASP:H	1.78	0.49
12:1Q:102:VAL:N	59:1Q:303:HOH:O	2.44	0.49
15:1T:27:THR:HG22	15:1T:89:VAL:CG2	2.43	0.49
16:1U:69:CYS:SG	16:1U:79:PHE:CD2	3.06	0.49
20:1Y:90:LEU:CD1	20:1Y:96:ILE:HG12	2.42	0.49
32:1a:418:C:H4'	32:1a:419:G:C2	2.47	0.49
32:1a:499:G:H2'	32:1a:500:PSU:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:547:A:O2'	32:1a:550:G:O3'	2.29	0.49
32:1a:959:U:H3'	32:1a:960:U:C6	2.48	0.49
32:1a:993:A:H4'	50:1s:14:HIS:CE1	2.47	0.49
32:1a:1146:C:O2'	32:1a:1147:G:H5'	2.13	0.49
32:1a:1272:G:H2'	32:1a:1273:G:O4'	2.13	0.49
34:1c:8:ILE:HD12	34:1c:16:ARG:HD3	1.94	0.49
35:1d:59:ARG:O	35:1d:60:GLU:C	2.56	0.49
36:1e:136:MET:O	36:1e:139:LEU:N	2.45	0.49
41:1j:40:LEU:HB2	41:1j:69:ASN:HB2	1.94	0.49
43:1l:90:VAL:O	43:1l:90:VAL:HG12	2.13	0.49
49:1r:36:ASN:CG	49:1r:39:VAL:HB	2.38	0.49
50:1s:32:LYS:HA	50:1s:50:ALA:O	2.13	0.49
1:2A:16:G:H4'	16:2U:25:TRP:HE1	1.78	0.49
1:2A:309:C:H42	1:2A:378:G:H1	1.61	0.49
1:2A:330:G:N2	1:2A:332:G:H3'	2.27	0.49
1:2A:505:A:O2'	20:2Y:46:LYS:O	2.31	0.49
1:2A:849:U:O2'	1:2A:850:A:H5'	2.13	0.49
1:2A:993:C:N4	1:2A:994:G:O6	2.46	0.49
1:2A:1505:G:O2'	1:2A:1507:G:H5'	2.13	0.49
1:2A:1786:G:H4'	1:2A:1788:G:O4'	2.12	0.49
1:2A:2165:U:O2'	1:2A:2168:G:N1	2.46	0.49
1:2A:2192:A:H1'	1:2A:2193:U:C5	2.48	0.49
1:2A:2272:C:C6	22:20:16:SER:HB3	2.48	0.49
2:2B:40:U:O2'	2:2B:43:C:OP2	2.28	0.49
4:2E:84:PHE:CE2	4:2E:86:PRO:HD3	2.47	0.49
4:2E:101:ARG:CG	4:2E:169:ASN:HA	2.39	0.49
6:2G:11:TYR:CE2	6:2G:16:ARG:HD3	2.47	0.49
7:2H:90:LYS:O	7:2H:161:GLY:N	2.44	0.49
8:2I:72:LEU:O	8:2I:75:LEU:HB3	2.12	0.49
21:2Z:103:ARG:C	21:2Z:104:PHE:HD1	2.21	0.49
23:21:49:VAL:O	23:21:60:PHE:N	2.43	0.49
30:28:25:MET:CE	30:28:47:LYS:HG2	2.43	0.49
30:28:34:TRP:CG	30:28:35:GLN:N	2.80	0.49
32:2a:373:G:OP1	47:2p:3:LYS:HE2	2.12	0.49
32:2a:431:C:O2'	32:2a:432:C:H5'	2.13	0.49
32:2a:969:U:C1'	32:2a:970:U:OP2	2.57	0.49
32:2a:972:A:H2'	32:2a:973:C:H5'	1.95	0.49
32:2a:1140:A:H1'	32:2a:1163:G:C2	2.47	0.49
32:2a:1288:A:C2'	44:2m:109:THR:HG21	2.42	0.49
32:2a:1374:U:O2'	32:2a:1375:G:H5'	2.13	0.49
33:2b:35:GLU:OE2	33:2b:38:GLY:HA2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:102:LEU:HB3	33:2b:180:LEU:HD11	1.94	0.49
34:2c:6:HIS:CD2	34:2c:8:ILE:HB	2.46	0.49
38:2g:108:ALA:HB1	38:2g:119:ARG:HB3	1.94	0.49
40:2i:99:LEU:HB3	40:2i:101:PHE:CE2	2.48	0.49
41:2j:50:ILE:HG12	41:2j:60:ARG:CD	2.43	0.49
44:2m:19:LEU:O	44:2m:22:ILE:N	2.45	0.49
49:2r:56:THR:O	49:2r:58:LEU:HD12	2.12	0.49
50:2s:13:ASP:O	50:2s:17:GLU:N	2.45	0.49
50:2s:16:LEU:CD2	50:2s:20:LEU:HD12	2.43	0.49
1:1A:241:C:P	30:18:5:LYS:HZ2	2.35	0.49
1:1A:320:C:H2'	1:1A:321:G:O4'	2.12	0.49
1:1A:368:A:O2'	1:1A:370:A:N6	2.46	0.49
1:1A:908:G:H5"	59:1A:4181:HOH:O	2.12	0.49
1:1A:1549:C:O2'	1:1A:1550:C:H5'	2.12	0.49
1:1A:1797:C:O2'	1:1A:1798:U:H5'	2.13	0.49
1:1A:1824:U:H2'	1:1A:1825:C:H6	1.77	0.49
1:1A:1922:A:H2'	1:1A:1923:C:H5'	1.94	0.49
1:1A:2652:G:C4'	9:1N:76:SER:HB2	2.43	0.49
1:1A:2831:G:H5"	4:1E:159:HIS:CE1	2.48	0.49
6:1G:11:TYR:O	6:1G:15:VAL:HB	2.13	0.49
6:1G:41:GLN:CB	6:1G:43:LEU:HD13	2.27	0.49
6:1G:170:ARG:O	6:1G:174:GLU:N	2.38	0.49
8:1I:61:ARG:O	8:1I:63:ALA:N	2.37	0.49
9:1N:39:ARG:HB3	9:1N:41:ASP:OD1	2.13	0.49
17:1V:1:MET:HE2	17:1V:43:GLU:HB2	1.95	0.49
32:1a:90:U:H2'	32:1a:91:G:H8	1.74	0.49
32:1a:349:A:H2'	32:1a:350:G:OP2	2.12	0.49
32:1a:635:C:H2'	32:1a:636:U:C6	2.48	0.49
32:1a:1256:G:N2	32:1a:1257:A:N7	2.60	0.49
33:1b:110:GLN:HA	33:1b:113:HIS:HD2	1.76	0.49
35:1d:81:GLU:HG2	35:1d:139:ARG:HH22	1.77	0.49
38:1g:95:ARG:HA	38:1g:98:SER:HB2	1.94	0.49
40:1i:28:VAL:HG22	40:1i:63:ILE:CD1	2.42	0.49
40:1i:46:ALA:O	40:1i:49:PRO:HD2	2.13	0.49
1:2A:64:C:H2'	1:2A:65:U:H6	1.78	0.49
1:2A:202:G:O2'	1:2A:203:G:O5'	2.10	0.49
1:2A:1102:A:H2'	1:2A:1103:G:C8	2.48	0.49
1:2A:1690:C:H2'	1:2A:1690:C:O2	2.11	0.49
1:2A:1765:G:H3'	1:2A:1766:A:C5'	2.43	0.49
1:2A:1830:C:P	3:2D:264:LYS:HZ1	2.35	0.49
1:2A:1897:A:H2'	1:2A:1898:A:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2305:C:O2'	1:2A:2306:C:H5'	2.13	0.49
1:2A:2506:G:OP1	56:2A:3553:FSD:NAF	2.46	0.49
1:2A:2771:G:N3	1:2A:2771:G:H2'	2.26	0.49
3:2D:231:HIS:HD2	3:2D:249:PRO:HG3	1.78	0.49
6:2G:28:VAL:O	6:2G:31:VAL:HG13	2.13	0.49
6:2G:117:PHE:CE1	6:2G:120:LEU:HD23	2.48	0.49
11:2P:113:LYS:HA	11:2P:129:ALA:O	2.12	0.49
14:2S:21:THR:C	14:2S:23:ARG:H	2.21	0.49
20:2Y:38:ILE:CD1	20:2Y:66:PRO:HA	2.38	0.49
22:20:46:LYS:HB2	22:20:78:TYR:CE1	2.47	0.49
26:24:67:TYR:HB2	50:2s:16:LEU:HD21	1.94	0.49
32:2a:127:C:OP1	51:2t:75:ASN:ND2	2.29	0.49
32:2a:493:A:O2'	32:2a:494:A:P	2.70	0.49
32:2a:568:G:O2'	32:2a:569:G:H5'	2.13	0.49
32:2a:1083:C:C2	32:2a:1085:A:H5'	2.47	0.49
32:2a:1218:A:OP1	52:2u:3:LYS:N	2.37	0.49
32:2a:1261:A:H5"	41:2j:7:LYS:HE2	1.93	0.49
32:2a:1339:A:H3'	32:2a:1340:U:H6	1.78	0.49
33:2b:58:ILE:HD11	33:2b:185:ILE:HG12	1.94	0.49
33:2b:163:PHE:CD1	33:2b:186:ALA:HA	2.48	0.49
33:2b:226:ARG:O	33:2b:226:ARG:CG	2.60	0.49
38:2g:42:ILE:O	38:2g:46:ALA:N	2.46	0.49
39:2h:84:ARG:HG2	39:2h:85:ARG:O	2.12	0.49
41:2j:6:ILE:HB	41:2j:72:VAL:CG2	2.43	0.49
41:2j:78:ASN:O	41:2j:81:THR:N	2.34	0.49
44:2m:92:HIS:CE1	44:2m:98:VAL:HG21	2.47	0.49
50:2s:36:ARG:HD2	50:2s:52:TYR:O	2.13	0.49
1:1A:36:C:O2'	1:1A:37:A:H5'	2.13	0.48
1:1A:89:A:O2'	1:1A:90:G:H5'	2.12	0.48
1:1A:232:A:H4'	11:1P:74:GLU:HB2	1.94	0.48
1:1A:360:C:H2'	1:1A:361:G:O5'	2.12	0.48
1:1A:853:U:H2'	1:1A:854:G:O4'	2.12	0.48
1:1A:1251:C:C2'	1:1A:1252:C:H5'	2.43	0.48
1:1A:1254:A:H2'	1:1A:1254:A:N3	2.28	0.48
1:1A:1272:G:OP1	16:1U:13:LYS:HG2	2.13	0.48
1:1A:1298:A:N6	59:1A:4608:HOH:O	2.46	0.48
1:1A:1678:A:N6	59:1A:3911:HOH:O	2.42	0.48
1:1A:2817:U:C2'	1:1A:2818:A:H5'	2.43	0.48
3:1D:20:ASP:C	3:1D:22:SER:H	2.21	0.48
6:1G:86:MET:O	6:1G:88:ILE:HG23	2.13	0.48
7:1H:103:LEU:HG	7:1H:105:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1I:33:ARG:O	8:1I:35:LEU:HG	2.12	0.48
10:1O:87:ILE:HD12	10:1O:91:LEU:HA	1.95	0.48
21:1Z:8:TYR:CB	21:1Z:38:TYR:HE1	2.17	0.48
32:1a:181:C:H2'	32:1a:182:C:H6	1.77	0.48
32:1a:207:G:N1	32:1a:214:C:N3	2.61	0.48
32:1a:225:U:C5'	47:1p:33:ILE:HD13	2.42	0.48
32:1a:254:G:O2'	32:1a:255:G:H5'	2.13	0.48
32:1a:555:U:O4	32:1a:842:A:N6	2.46	0.48
32:1a:1043:C:H5'	45:1n:45:ARG:HH12	1.75	0.48
32:1a:1244:C:O5'	32:1a:1244:C:H6	1.95	0.48
32:1a:1293:G:H1	32:1a:1308:C:H42	1.60	0.48
32:1a:1350:C:O5'	40:1i:112:LYS:NZ	2.42	0.48
34:1c:113:ALA:CA	34:1c:202:ILE:HD12	2.43	0.48
37:1f:72:VAL:O	37:1f:75:LEU:HB3	2.12	0.48
41:1j:21:GLN:NE2	41:1j:25:GLU:HG3	2.22	0.48
43:1l:54:LYS:HD2	43:1l:54:LYS:N	2.28	0.48
49:1r:66:LEU:O	49:1r:67:ALA:C	2.56	0.48
51:1t:21:LYS:HA	51:1t:24:LEU:HD12	1.95	0.48
1:2A:177:G:N1	1:2A:193:G:O2'	2.43	0.48
1:2A:241:C:C2'	1:2A:242:G:H5'	2.43	0.48
1:2A:382:A:C2	1:2A:383:G:H1'	2.48	0.48
1:2A:442:C:H2'	1:2A:443:C:O4'	2.13	0.48
1:2A:723:A:O2'	1:2A:2092:A:H5'	2.13	0.48
1:2A:791:G:C2'	1:2A:792:A:H5'	2.42	0.48
1:2A:1102:A:O2'	1:2A:1103:G:C8	2.65	0.48
1:2A:1475:C:H2'	1:2A:1476:U:C6	2.48	0.48
1:2A:1507:G:H8	1:2A:1507:G:O5'	1.95	0.48
1:2A:1869:G:C8	1:2A:1948:A:H1'	2.48	0.48
1:2A:2086:C:H1'	1:2A:2460:U:C2	2.48	0.48
1:2A:2301:G:C2'	1:2A:2302:U:H5'	2.42	0.48
1:2A:2312:C:H42	1:2A:2326:G:H1	1.61	0.48
6:2G:46:ALA:O	6:2G:51:ARG:HA	2.13	0.48
7:2H:28:GLY:N	7:2H:79:VAL:HB	2.28	0.48
8:2I:116:LEU:O	8:2I:116:LEU:HD13	2.13	0.48
9:2N:61:ARG:O	9:2N:62:VAL:HG23	2.12	0.48
10:2O:63:VAL:HG22	10:2O:83:ALA:O	2.12	0.48
14:2S:104:GLY:O	14:2S:107:GLU:N	2.46	0.48
16:2U:17:ILE:O	16:2U:20:LEU:N	2.46	0.48
19:2X:92:LEU:C	19:2X:94:GLY:H	2.19	0.48
21:2Z:25:PRO:O	21:2Z:85:HIS:HA	2.13	0.48
31:29:29:ASN:HD22	31:29:32:HIS:CE1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:130:C:C2’	32:2a:131:C:H5’	2.38	0.48
32:2a:406:G:H2’	32:2a:425:U:C4	2.47	0.48
32:2a:729:C:H2’	32:2a:730:A:C8	2.48	0.48
32:2a:1037:C:H4’	32:2a:1038:A:C5’	2.43	0.48
32:2a:1250:A:H4’	52:2u:19:GLY:C	2.38	0.48
32:2a:1271:A:P	52:2u:10:ARG:HH22	2.36	0.48
32:2a:1287:G:H1’	32:2a:1288:A:N7	2.27	0.48
32:2a:1496:MA6:N7	32:2a:1496:MA6:H102	2.28	0.48
33:2b:35:GLU:HA	33:2b:39:ILE:O	2.12	0.48
34:2c:151:VAL:HG22	34:2c:200:ALA:HA	1.95	0.48
34:2c:157:ILE:HD11	34:2c:166:GLU:HG2	1.89	0.48
38:2g:46:ALA:HB1	38:2g:121:ALA:HB2	1.95	0.48
38:2g:141:VAL:HG12	38:2g:141:VAL:O	2.12	0.48
47:2p:19:ILE:HB	47:2p:37:GLY:C	2.38	0.48
49:2r:74:ARG:HA	49:2r:79:LEU:H	1.78	0.48
1:1A:8:U:OP1	9:1N:115:ARG:NH2	2.46	0.48
1:1A:231:U:H2’	1:1A:232:A:H5’	1.94	0.48
1:1A:614:G:O4’	30:18:3:LYS:HA	2.12	0.48
1:1A:641:G:O2’	1:1A:642:C:H5’	2.12	0.48
1:1A:944:A:N3	1:1A:944:A:H2’	2.28	0.48
1:1A:1018:G:O2’	1:1A:1019:C:OP1	2.30	0.48
1:1A:1137:C:O2’	1:1A:1138:G:H5’	2.12	0.48
1:1A:1483:U:H5’	1:1A:1563:C:O2’	2.12	0.48
1:1A:2077:G:N3	1:1A:2077:G:H2’	2.28	0.48
1:1A:2739:G:O2’	1:1A:2740:U:H5’	2.13	0.48
3:1D:137:PRO:HB2	3:1D:140:THR:CG2	2.42	0.48
6:1G:18:GLU:OE2	6:1G:21:ARG:NH1	2.47	0.48
8:1I:69:LYS:CG	8:1I:73:GLU:HG3	2.43	0.48
8:1I:132:PRO:HG3	8:1I:138:ILE:CD1	2.43	0.48
13:1R:22:ARG:O	13:1R:25:ALA:N	2.46	0.48
13:1R:56:LYS:NZ	13:1R:90:ARG:O	2.46	0.48
18:1W:4:LYS:HB3	18:1W:106:ILE:HG12	1.96	0.48
20:1Y:61:ILE:O	20:1Y:61:ILE:HG13	2.13	0.48
21:1Z:65:GLN:O	21:1Z:66:SER:OG	2.28	0.48
26:14:29:PRO:C	26:14:30:GLU:HG3	2.38	0.48
32:1a:179:G:H1	32:1a:200:C:N4	2.11	0.48
32:1a:415:C:H2’	32:1a:416:U:H5’	1.96	0.48
32:1a:426:A:OP2	35:1d:7:PRO:HA	2.13	0.48
32:1a:739:G:OP2	46:1o:65:ARG:HD2	2.12	0.48
32:1a:1449:G:O2’	32:1a:1450:U:H5’	2.13	0.48
33:1b:74:LYS:HB3	33:1b:76:GLN:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:81:VAL:HG23	33:1b:82:ARG:N	2.28	0.48
33:1b:111:ARG:HH21	33:1b:114:ARG:CB	2.26	0.48
33:1b:118:LEU:HD21	33:1b:138:LEU:HD22	1.94	0.48
36:1e:61:TYR:O	36:1e:64:ARG:N	2.38	0.48
37:1f:3:ARG:NE	37:1f:66:GLU:OE1	2.46	0.48
37:1f:14:LEU:HA	37:1f:18:GLN:OE1	2.13	0.48
38:1g:102:ARG:O	38:1g:106:GLN:HB2	2.13	0.48
39:1h:83:ILE:O	39:1h:83:ILE:HG23	2.13	0.48
42:1k:20:TYR:HA	42:1k:83:ILE:O	2.13	0.48
44:1m:108:ARG:O	44:1m:108:ARG:HG3	2.13	0.48
45:1n:51:GLY:C	45:1n:53:LEU:H	2.21	0.48
50:1s:19:VAL:CG1	50:1s:43:GLU:O	2.61	0.48
1:2A:275:C:O2'	1:2A:276:G:H5'	2.12	0.48
1:2A:581:G:O2'	1:2A:582:C:H5'	2.12	0.48
1:2A:1269:C:H2'	1:2A:1270:G:O4'	2.13	0.48
1:2A:1529:G:O2'	1:2A:1530:G:H5'	2.13	0.48
1:2A:1674:U:O2'	1:2A:1675:G:H5'	2.12	0.48
1:2A:1809:U:H3'	1:2A:1809:U:O2	2.14	0.48
1:2A:2629:G:O2'	1:2A:2630:C:H5'	2.13	0.48
1:2A:2833:C:H2'	1:2A:2834:C:C5'	2.40	0.48
59:2A:4081:HOH:O	11:2P:16:ARG:HG3	2.13	0.48
5:2F:36:VAL:HA	5:2F:101:LEU:CD2	2.44	0.48
6:2G:46:ALA:C	6:2G:51:ARG:HA	2.38	0.48
13:2R:85:PRO:C	13:2R:87:TYR:H	2.21	0.48
19:2X:72:LYS:CD	19:2X:73:ARG:O	2.61	0.48
20:2Y:32:PRO:O	20:2Y:35:TYR:N	2.46	0.48
21:2Z:6:LYS:HA	21:2Z:60:GLU:HB2	1.94	0.48
22:20:50:ASN:CA	22:20:62:LEU:HD12	2.42	0.48
24:22:32:LEU:O	24:22:33:MET:C	2.57	0.48
24:22:32:LEU:HD11	24:22:57:ILE:HD12	1.95	0.48
25:23:51:ALA:C	25:23:53:LEU:N	2.72	0.48
32:2a:425:U:OP2	35:2d:13:ARG:NH2	2.45	0.48
32:2a:522:G:H3'	43:2l:115:LYS:HZ3	1.76	0.48
32:2a:691:C:C2'	32:2a:692:C:H5'	2.43	0.48
32:2a:855:C:H2'	32:2a:856:G:H5'	1.93	0.48
32:2a:1484:U:N3	32:2a:1500:U:OP1	2.25	0.48
33:2b:27:LYS:HB3	33:2b:194:PRO:HD2	1.95	0.48
33:2b:114:ARG:HH12	33:2b:118:LEU:HD21	1.78	0.48
33:2b:162:ILE:O	33:2b:185:ILE:N	2.40	0.48
34:2c:113:ALA:HB1	34:2c:200:ALA:CB	2.43	0.48
34:2c:114:PRO:HA	34:2c:185:GLY:HA3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:135:LEU:HD22	35:2d:135:LEU:N	2.27	0.48
39:2h:86:ILE:HG13	39:2h:133:LEU:CD2	2.43	0.48
42:2k:48:ILE:CD1	42:2k:64:ALA:HA	2.38	0.48
45:2n:60:SER:O	45:2n:61:TRP:HB3	2.13	0.48
49:2r:27:GLY:O	49:2r:29:PHE:HD1	1.95	0.48
50:2s:36:ARG:HB3	50:2s:72:GLY:HA2	1.94	0.48
50:2s:39:THR:HG23	50:2s:69:HIS:O	2.14	0.48
52:2u:12:LYS:HB2	52:2u:22:ARG:HD3	1.94	0.48
1:1A:828:A:H2'	1:1A:1818:C:O2'	2.13	0.48
1:1A:845:G:OP2	1:1A:846:A:O2'	2.19	0.48
1:1A:1506:A:H3'	1:1A:1507:G:H5'	1.95	0.48
1:1A:1686:C:O2'	1:1A:1687:A:H5'	2.13	0.48
1:1A:1791:C:H42	1:1A:1792:A:H62	1.60	0.48
1:1A:1803:A:H2'	1:1A:1804:C:C5'	2.40	0.48
2:1B:77:U:O2'	2:1B:78:A:H5'	2.12	0.48
4:1E:101:ARG:HD2	4:1E:169:ASN:OD1	2.13	0.48
4:1E:104:VAL:O	4:1E:167:VAL:N	2.44	0.48
5:1F:125:LEU:HD21	5:1F:199:TRP:CD2	2.48	0.48
5:1F:206:ILE:O	5:1F:208:GLY:N	2.46	0.48
7:1H:169:VAL:HG12	7:1H:169:VAL:O	2.14	0.48
9:1N:95:PRO:C	9:1N:97:ARG:H	2.21	0.48
12:1Q:111:GLU:OE2	12:1Q:133:ARG:NH2	2.47	0.48
14:1S:48:LEU:CD2	14:1S:82:ILE:HD11	2.43	0.48
16:1U:8:VAL:HG23	16:1U:11:ARG:HH21	1.76	0.48
16:1U:57:PHE:O	16:1U:60:LEU:N	2.46	0.48
17:1V:65:GLY:HA3	17:1V:91:TYR:HE1	1.78	0.48
20:1Y:85:VAL:O	20:1Y:85:VAL:HG23	2.14	0.48
20:1Y:87:LYS:HD3	20:1Y:95:LYS:HE2	1.95	0.48
24:12:27:GLU:O	24:12:30:ARG:HB3	2.13	0.48
32:1a:261:G:H5"	48:1q:65:ILE:O	2.12	0.48
32:1a:648:G:H5"	49:1r:64:ARG:NH1	2.28	0.48
32:1a:962:C:C2'	32:1a:963:C:H5'	2.43	0.48
32:1a:1027:A:N7	32:1a:1028:C:H1'	2.27	0.48
32:1a:1272:G:O2'	32:1a:1273:G:H5'	2.12	0.48
33:1b:16:HIS:CG	33:1b:17:PHE:N	2.80	0.48
33:1b:92:TYR:N	33:1b:151:GLY:O	2.46	0.48
33:1b:102:LEU:HB3	33:1b:180:LEU:CD1	2.44	0.48
33:1b:137:ARG:NH1	33:1b:141:GLU:OE1	2.47	0.48
34:1c:71:ALA:CA	34:1c:106:VAL:HB	2.42	0.48
36:1e:110:LEU:HD13	36:1e:118:ILE:HD13	1.96	0.48
39:1h:23:SER:CA	39:1h:63:LEU:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:1h:26:VAL:HG11	59:1h:3102:HOH:O	2.12	0.48
41:1j:81:THR:HA	41:1j:84:GLN:HE21	1.77	0.48
44:1m:94:ARG:NH1	50:1s:80:TYR:CD2	2.78	0.48
47:1p:13:HIS:C	47:1p:15:PRO:HD3	2.38	0.48
47:1p:20:VAL:HG21	47:1p:32:TYR:CG	2.47	0.48
48:1q:27:PHE:O	48:1q:36:ILE:HG12	2.12	0.48
1:2A:413:U:H2'	23:21:20:ARG:NH1	2.28	0.48
1:2A:543:U:H2'	1:2A:544:G:C8	2.48	0.48
1:2A:736:G:H1'	1:2A:825:U:O3'	2.13	0.48
1:2A:1563:C:O2'	1:2A:1564:G:H5'	2.13	0.48
1:2A:1791:C:C3'	1:2A:1792:A:H5"	2.42	0.48
1:2A:2076:C:H5'	1:2A:2077:G:C5'	2.42	0.48
1:2A:2092:A:H2'	1:2A:2093:G:H8	1.79	0.48
1:2A:2829:A:HO2'	1:2A:2830:A:P	2.34	0.48
2:2B:22:U:H2'	2:2B:23:G:H8	1.76	0.48
3:2D:255:LYS:N	59:2D:404:HOH:O	2.46	0.48
4:2E:2:LYS:CG	4:2E:200:GLU:HB2	2.43	0.48
9:2N:15:LEU:HD11	9:2N:55:VAL:CG2	2.43	0.48
13:2R:55:ALA:HA	13:2R:80:PHE:CD1	2.48	0.48
14:2S:104:GLY:O	14:2S:108:GLY:N	2.46	0.48
20:2Y:99:CYS:HB3	20:2Y:102:CYS:O	2.14	0.48
21:2Z:156:LYS:O	21:2Z:156:LYS:HG3	2.12	0.48
31:29:12:ASP:OD1	31:29:13:LYS:HD2	2.12	0.48
32:2a:484:G:H2'	32:2a:485:C:C6	2.49	0.48
32:2a:722:C:H4'	37:2f:69:GLU:O	2.14	0.48
32:2a:917:G:O2'	32:2a:918:C:H5'	2.14	0.48
32:2a:940:C:H2'	32:2a:941:G:C8	2.48	0.48
32:2a:1105:U:O2'	32:2a:1106:A:H5'	2.13	0.48
32:2a:1131:U:H2'	32:2a:1132:C:C5'	2.43	0.48
32:2a:1148:C:O2'	32:2a:1149:G:H5'	2.13	0.48
32:2a:1262:A:C8	41:2j:41:PRO:HD3	2.47	0.48
32:2a:1304:C:H5"	44:2m:100:GLY:HA3	1.96	0.48
32:2a:1342:A:H3'	32:2a:1343:G:H8	1.78	0.48
32:2a:1355:U:H5"	40:2i:71:SER:HB2	1.94	0.48
32:2a:1429:C:C2'	32:2a:1430:C:H5'	2.43	0.48
33:2b:175:ARG:O	33:2b:178:ARG:N	2.46	0.48
33:2b:187:LEU:HD23	33:2b:187:LEU:H	1.78	0.48
37:2f:44:GLY:O	37:2f:59:TYR:HA	2.13	0.48
40:2i:100:GLY:C	40:2i:102:LEU:H	2.21	0.48
40:2i:110:GLU:HB3	40:2i:119:ALA:CB	2.43	0.48
43:2l:113:ARG:NH2	43:2l:116:SER:HG	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:4:ILE:HG23	44:2m:4:ILE:O	2.14	0.48
49:2r:45:SER:O	49:2r:48:GLY:N	2.46	0.48
1:1A:11:U:H2'	1:1A:12:A:O5'	2.14	0.48
1:1A:36:C:H4'	1:1A:476:C:OP1	2.13	0.48
1:1A:424:G:O2'	1:1A:425:G:H5'	2.13	0.48
1:1A:818:C:H1'	59:1A:4483:HOH:O	2.12	0.48
1:1A:860:C:O2'	1:1A:1269:C:N3	2.46	0.48
1:1A:1184:C:OP2	9:1N:66:LYS:NZ	2.40	0.48
1:1A:1498:C:H42	1:1A:1505:G:H1	1.62	0.48
1:1A:1518:A:H2'	1:1A:1519:G:H8	1.78	0.48
1:1A:1771:C:H6	1:1A:1771:C:O5'	1.96	0.48
1:1A:1856:G:HO2'	3:1D:242:ARG:NH2	2.12	0.48
1:1A:2190:A:OP1	1:1A:2190:A:H8	1.96	0.48
1:1A:2314:G:H1	1:1A:2324:C:N4	2.11	0.48
1:1A:2479:G:N1	1:1A:2492:G:O2'	2.40	0.48
1:1A:2879:C:C2'	1:1A:2880:C:H5'	2.43	0.48
5:1F:9:ILE:CG2	5:1F:125:LEU:HD13	2.44	0.48
5:1F:63:LYS:NZ	5:1F:75:HIS:O	2.43	0.48
10:1O:15:GLY:CA	10:1O:47:ILE:HG12	2.44	0.48
13:1R:49:ASP:OD1	13:1R:95:THR:HG23	2.12	0.48
22:10:31:VAL:HB	22:10:35:ASN:HD22	1.77	0.48
22:10:38:VAL:HG21	22:10:45:PHE:CD2	2.48	0.48
32:1a:183:C:O2'	32:1a:184:G:H5'	2.14	0.48
32:1a:191:G:H4'	32:1a:192:G:OP2	2.13	0.48
32:1a:225:U:O3'	47:1p:33:ILE:HD11	2.14	0.48
32:1a:292:U:H3	32:1a:297:G:H1	1.61	0.48
32:1a:372:G:O2'	32:1a:373:G:H5'	2.13	0.48
32:1a:721:A:H2'	32:1a:722:C:C6	2.49	0.48
32:1a:823:U:H3'	32:1a:824:C:C6	2.48	0.48
32:1a:942:A:O2'	41:1j:55:LYS:NZ	2.21	0.48
32:1a:1034:C:O2'	32:1a:1035:U:H5'	2.13	0.48
32:1a:1424:G:H5'	32:1a:1425:G:C5'	2.37	0.48
33:1b:229:VAL:HG12	33:1b:230:VAL:N	2.29	0.48
36:1e:46:GLY:HA3	36:1e:58:ALA:HB2	1.95	0.48
38:1g:126:ASP:O	38:1g:130:GLY:N	2.31	0.48
44:1m:22:ILE:HB	44:1m:25:ILE:HD12	1.95	0.48
48:1q:4:LYS:N	48:1q:61:GLU:HG2	2.27	0.48
48:1q:26:GLN:O	48:1q:27:PHE:HB3	2.13	0.48
49:1r:43:PHE:CD1	49:1r:43:PHE:N	2.78	0.48
1:2A:399:U:OP2	1:2A:426:G:N1	2.39	0.48
1:2A:1054:A:H5"	16:2U:63:VAL:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1090:A:H8	1:2A:1092:G:C4	2.32	0.48
1:2A:1395:C:O2'	1:2A:1396:C:H5'	2.12	0.48
1:2A:1659:A:H8	1:2A:1659:A:P	2.37	0.48
1:2A:2385:C:C2'	1:2A:2386:G:H5'	2.42	0.48
1:2A:2629:G:C2'	1:2A:2630:C:H5'	2.43	0.48
1:2A:2653:G:OP1	9:2N:76:SER:OG	2.29	0.48
1:2A:2735:C:H4'	13:2R:1:MET:HE3	1.94	0.48
1:2A:2740:U:H2'	1:2A:2741:G:C8	2.48	0.48
7:2H:136:ILE:HG13	7:2H:137:ASP:N	2.28	0.48
11:2P:85:LEU:HD13	11:2P:120:ALA:HB2	1.95	0.48
12:2Q:55:VAL:HG12	21:2Z:178:GLU:CB	2.43	0.48
18:2W:21:VAL:O	18:2W:24:ILE:HG12	2.14	0.48
24:22:35:LEU:HD12	24:22:53:LEU:HD12	1.94	0.48
26:24:36:CYS:N	26:24:39:CYS:SG	2.77	0.48
32:2a:29:G:H1	32:2a:539:C:N4	2.08	0.48
32:2a:231:C:HO2'	48:2q:71:PHE:HZ	1.58	0.48
32:2a:320:G:H5'	51:2t:22:ARG:NH1	2.28	0.48
32:2a:709:G:H1	32:2a:716:C:H42	1.62	0.48
33:2b:51:LEU:HA	33:2b:54:THR:HB	1.95	0.48
33:2b:102:LEU:HB3	33:2b:180:LEU:CD1	2.43	0.48
33:2b:174:VAL:O	33:2b:178:ARG:HG2	2.13	0.48
35:2d:12:CYS:CB	58:2d:501:SF4:S2	3.02	0.48
39:2h:26:VAL:HG22	39:2h:59:LEU:O	2.13	0.48
39:2h:38:ILE:O	39:2h:41:ARG:N	2.46	0.48
41:2j:42:THR:HG23	41:2j:67:THR:C	2.38	0.48
41:2j:71:LEU:HD23	41:2j:71:LEU:C	2.38	0.48
1:1A:191:C:OP2	1:1A:192:A:O2'	2.31	0.48
1:1A:253:A:H4'	1:1A:254:G:OP1	2.14	0.48
1:1A:1099:A:C2	1:1A:1100:G:H1'	2.48	0.48
1:1A:1732:C:H2'	1:1A:1733:G:O4'	2.13	0.48
1:1A:1953:A:C2'	1:1A:1954:G:H5'	2.43	0.48
1:1A:2187:G:H8	1:1A:2187:G:O5'	1.97	0.48
1:1A:2660:U:H2'	1:1A:2661:U:C6	2.49	0.48
2:1B:8:U:OP1	59:1B:310:HOH:O	2.20	0.48
2:1B:81:G:O6	54:1B:223:ARG:NH1	2.46	0.48
5:1F:124:LEU:O	5:1F:193:VAL:HA	2.14	0.48
6:1G:56:ALA:O	6:1G:59:GLU:HB2	2.13	0.48
6:1G:133:LEU:HD11	6:1G:157:ILE:HB	1.95	0.48
13:1R:67:LEU:O	13:1R:71:GLN:N	2.43	0.48
18:1W:34:ASN:O	27:15:30:LEU:HD11	2.14	0.48
18:1W:65:LEU:C	18:1W:67:ASP:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:68:ARG:HG3	19:1X:69:TYR:CE1	2.48	0.48
28:16:21:TYR:N	28:16:21:TYR:CD1	2.80	0.48
32:1a:555:U:H5"	32:1a:803:A:C5	2.47	0.48
32:1a:715:G:H5'	32:1a:750:A:O4'	2.13	0.48
32:1a:753:G:H4'	32:1a:1491:A:H4'	1.94	0.48
32:1a:1024:A:H2'	32:1a:1025:G:O5'	2.14	0.48
32:1a:1040:G:O3'	34:1c:197:GLY:HA3	2.13	0.48
32:1a:1043:C:O2'	32:1a:1044:G:H5'	2.13	0.48
34:1c:131:ARG:HH11	34:1c:166:GLU:HG2	1.77	0.48
38:1g:76:ARG:O	38:1g:87:VAL:N	2.46	0.48
39:1h:35:ILE:O	39:1h:38:ILE:N	2.40	0.48
47:1p:72:ARG:O	47:1p:75:ARG:N	2.46	0.48
49:1r:72:ARG:O	49:1r:76:LEU:HD13	2.13	0.48
52:1u:11:GLY:O	52:1u:14:TRP:HB3	2.14	0.48
52:1u:21:TYR:HD1	52:1u:21:TYR:N	2.11	0.48
1:2A:604:G:H2'	1:2A:605:G:C8	2.48	0.48
1:2A:705:C:H2'	1:2A:706:G:H5'	1.94	0.48
1:2A:719:C:O2'	1:2A:720:G:H5'	2.12	0.48
1:2A:1000:G:P	12:2Q:87:LYS:HG3	2.53	0.48
1:2A:1074:A:H5"	1:2A:1075:G:OP2	2.13	0.48
1:2A:1086:C:N4	1:2A:1159:G:H22	2.10	0.48
1:2A:1332:A:H8	13:2R:104:ARG:HD3	1.77	0.48
1:2A:1384:G:N2	1:2A:1648:A:H1'	2.29	0.48
1:2A:1703:C:OP1	4:2E:136:ARG:N	2.46	0.48
1:2A:1971:G:H1	1:2A:1975:G:C2'	2.25	0.48
1:2A:2007:A:O2'	1:2A:2008:G:H5'	2.13	0.48
1:2A:2324:C:H2'	1:2A:2325:C:C5	2.49	0.48
1:2A:2466:G:O6	59:2A:3897:HOH:O	2.20	0.48
1:2A:2732:U:H2'	1:2A:2733:A:H8	1.77	0.48
1:2A:2745:A:N1	4:2E:203:LYS:HA	2.27	0.48
9:2N:43:THR:N	9:2N:48:MET:SD	2.85	0.48
17:2V:12:TYR:N	17:2V:12:TYR:CD1	2.82	0.48
18:2W:79:GLY:N	18:2W:100:THR:O	2.44	0.48
20:2Y:97:ARG:HB3	20:2Y:106:LEU:HD12	1.95	0.48
24:22:41:ILE:CD1	24:22:43:GLN:HB2	2.44	0.48
32:2a:536:U:H5"	43:2l:87:GLY:HA2	1.95	0.48
32:2a:620:U:H5'	48:2q:2:PRO:CD	2.43	0.48
32:2a:667:G:H2'	32:2a:668:A:O4'	2.13	0.48
32:2a:683:C:H2'	32:2a:684:G:H5'	1.95	0.48
32:2a:703:C:H3'	32:2a:704:C:C6	2.48	0.48
32:2a:767:C:HO2'	32:2a:768:C:H5'	1.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1118:U:H2'	32:2a:1120:C:C5	2.47	0.48
32:2a:1143:G:H2'	32:2a:1144:C:H6	1.78	0.48
34:2c:180:ALA:CB	34:2c:203:PHE:HE1	2.21	0.48
40:2i:23:ASN:ND2	40:2i:25:LYS:HD3	2.29	0.48
48:2q:23:VAL:HB	48:2q:42:TYR:HE2	1.78	0.48
50:2s:11:VAL:CG2	50:2s:39:THR:HB	2.42	0.48
51:2t:97:ALA:HB1	51:2t:98:PRO:HD2	1.95	0.48
1:1A:33:C:HO2'	1:1A:34:G:H8	1.62	0.48
1:1A:245:A:O3'	59:1A:4365:HOH:O	2.20	0.48
1:1A:394:C:H2'	1:1A:395:C:O4'	2.14	0.48
1:1A:701:A:H2'	1:1A:702:G:H5'	1.96	0.48
1:1A:908:G:H4'	2:1B:79:C:H4'	1.95	0.48
1:1A:1320:A:H4'	1:1A:1321:A:O5'	2.13	0.48
1:1A:1417:U:C2'	1:1A:1418:A:H5'	2.44	0.48
1:1A:1631:A:H8	1:1A:1631:A:O5'	1.97	0.48
1:1A:1718:C:C2	1:1A:2593:G:H5'	2.48	0.48
1:1A:2060:C:O2'	1:1A:2061:C:H5'	2.13	0.48
1:1A:2476:C:O4'	59:1A:4322:HOH:O	2.20	0.48
1:1A:2556:G:O2'	1:1A:2557:U:H5'	2.14	0.48
1:1A:2599:G:OP2	59:1A:4351:HOH:O	2.19	0.48
2:1B:17:C:H2'	2:1B:18:G:O4'	2.14	0.48
2:1B:43:C:OP1	26:14:1:MET:HA	2.13	0.48
4:1E:104:VAL:N	4:1E:167:VAL:O	2.39	0.48
5:1F:9:ILE:HG21	5:1F:125:LEU:HD13	1.95	0.48
6:1G:66:GLN:HA	26:14:6:HIS:ND1	2.28	0.48
10:1O:17:ARG:HE	10:1O:47:ILE:CG2	2.25	0.48
13:1R:82:GLU:C	13:1R:85:PRO:HD2	2.38	0.48
32:1a:139:G:O2'	32:1a:140:G:H5'	2.13	0.48
32:1a:233:C:H4'	48:1q:25:ARG:NH1	2.14	0.48
32:1a:296:A:O2'	32:1a:548:C:N3	2.40	0.48
32:1a:397:C:O2'	32:1a:398:G:H5'	2.14	0.48
32:1a:420:G:H2'	32:1a:421:G:H8	1.79	0.48
32:1a:982:G:H8	32:1a:982:G:O5'	1.96	0.48
33:1b:231:GLU:CB	33:1b:232:PRO:CD	2.91	0.48
35:1d:159:ARG:O	35:1d:163:GLU:HG3	2.13	0.48
39:1h:53:VAL:O	39:1h:54:ASP:C	2.57	0.48
41:1j:44:VAL:CG1	41:1j:46:ARG:HG3	2.44	0.48
1:2A:163:G:O2'	1:2A:164:G:H5'	2.14	0.48
1:2A:528:U:O2	1:2A:528:U:H2'	2.13	0.48
1:2A:834:A:OP1	1:2A:837:C:N4	2.43	0.48
1:2A:900:G:O2'	1:2A:901:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1092:G:H21	1:2A:1156:A:N6	2.07	0.48
1:2A:1135:U:O5'	1:2A:1135:U:H6	1.97	0.48
1:2A:1533:G:H2'	1:2A:1534:U:H6	1.79	0.48
1:2A:1536:G:H5'	3:2D:99:ASP:OD2	2.14	0.48
1:2A:2099:C:H1'	1:2A:2445:A:H1'	1.95	0.48
1:2A:2263:G:O6	56:2A:3553:FSD:CBB	2.61	0.48
1:2A:2293:G:OP1	1:2A:2294:C:H1'	2.13	0.48
1:2A:2821:G:H1	1:2A:2897:C:H42	1.61	0.48
4:2E:55:ASN:HB3	4:2E:58:ARG:NH1	2.29	0.48
5:2F:170:LEU:HD23	5:2F:172:TRP:CZ2	2.48	0.48
5:2F:198:ALA:HA	5:2F:201:VAL:HG22	1.96	0.48
7:2H:52:VAL:C	7:2H:65:HIS:HE2	2.19	0.48
8:2I:85:GLU:HG2	8:2I:86:THR:H	1.78	0.48
9:2N:4:TYR:CD2	16:2U:100:VAL:HG11	2.47	0.48
9:2N:121:LYS:HB3	9:2N:123:TYR:CE2	2.47	0.48
10:2O:1:MET:HE3	10:2O:32:TYR:CD2	2.48	0.48
20:2Y:54:LYS:C	20:2Y:56:PRO:HD3	2.38	0.48
21:2Z:153:SER:CA	21:2Z:167:PRO:HB3	2.43	0.48
22:20:56:ASP:CG	22:20:58:THR:HG1	2.21	0.48
23:21:51:VAL:HG11	23:21:74:VAL:CG2	2.25	0.48
32:2a:137:G:H1	32:2a:217:C:H42	1.62	0.48
32:2a:373:G:H2'	32:2a:374:G:C8	2.48	0.48
32:2a:811:U:H5"	32:2a:812:A:OP2	2.13	0.48
32:2a:937:A:H1'	32:2a:963:C:O4'	2.13	0.48
32:2a:987:C:H2'	32:2a:988:G:C8	2.49	0.48
32:2a:1290:U:H2'	32:2a:1291:G:H8	1.77	0.48
32:2a:1307:C:H4'	52:2u:17:THR:HG21	1.95	0.48
32:2a:1329:G:O2'	32:2a:1330:U:OP2	2.31	0.48
32:2a:1470:A:H5"	43:2l:47:LYS:CD	2.44	0.48
33:2b:20:GLU:HB2	33:2b:190:THR:OG1	2.13	0.48
33:2b:70:PHE:O	33:2b:93:VAL:HG22	2.14	0.48
33:2b:164:VAL:H	33:2b:186:ALA:HB2	1.79	0.48
34:2c:53:ALA:HA	34:2c:115:LEU:HD11	1.95	0.48
35:2d:31:CYS:SG	35:2d:33:MET:HB2	2.53	0.48
35:2d:114:ARG:HA	35:2d:117:ALA:CB	2.35	0.48
35:2d:200:GLU:OE1	35:2d:200:GLU:N	2.44	0.48
38:2g:133:GLY:HA2	38:2g:136:LYS:CG	2.43	0.48
39:2h:52:ASP:HA	39:2h:56:LYS:O	2.13	0.48
39:2h:120:THR:O	39:2h:123:GLU:N	2.46	0.48
40:2i:9:ARG:HB2	40:2i:104:ARG:HE	1.79	0.48
41:2j:44:VAL:HG11	41:2j:46:ARG:CZ	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:25:ILE:CD1	44:2m:29:ARG:HG2	2.44	0.48
47:2p:9:PHE:HB2	47:2p:16:HIS:O	2.13	0.48
1:1A:285:C:O2'	1:1A:286:G:H5'	2.12	0.48
1:1A:696:C:H3'	1:1A:697:G:H8	1.78	0.48
1:1A:1020:G:H1'	1:1A:1035:A:C2	2.49	0.48
1:1A:1279:U:H2'	1:1A:1280:G:H5'	1.96	0.48
1:1A:1288:G:O3'	11:1P:7:ARG:HD2	2.14	0.48
1:1A:1821:A:H5'	3:1D:206:LEU:HD12	1.95	0.48
1:1A:1964:U:O4'	1:1A:1966:G:H5'	2.13	0.48
1:1A:2061:C:H2'	1:1A:2062:U:O4'	2.13	0.48
1:1A:2366:C:H1'	22:10:39:ARG:NH2	2.24	0.48
2:1B:38:C:H5'	59:1B:305:HOH:O	2.13	0.48
5:1F:101:LEU:HD12	5:1F:102:PRO:CD	2.43	0.48
5:1F:185:ASP:O	5:1F:189:THR:HG23	2.14	0.48
5:1F:196:LEU:O	5:1F:200:GLU:N	2.44	0.48
6:1G:18:GLU:CD	6:1G:21:ARG:HH11	2.21	0.48
6:1G:35:GLU:CB	6:1G:160:VAL:HG12	2.43	0.48
7:1H:45:VAL:HB	59:1H:304:HOH:O	2.13	0.48
8:1I:72:LEU:C	8:1I:74:ASN:N	2.70	0.48
13:1R:29:LEU:HD11	13:1R:48:VAL:HG13	1.94	0.48
18:1W:75:TYR:CE1	18:1W:104:THR:HB	2.49	0.48
19:1X:50:LYS:CB	19:1X:87:GLN:HE22	2.27	0.48
32:1a:125:A:OP2	48:1q:63:ARG:CD	2.61	0.48
32:1a:373:G:H5'	47:1p:5:ARG:HH12	1.79	0.48
32:1a:374:G:H2'	32:1a:375:C:C6	2.49	0.48
32:1a:562:C:O2'	32:1a:712:A:N3	2.19	0.48
32:1a:1040:G:OP2	59:1a:2067:HOH:O	2.20	0.48
32:1a:1104:U:O4	32:1a:1135:A:N1	2.46	0.48
32:1a:1107:G:N2	32:1a:1110:G:N3	2.61	0.48
32:1a:1121:G:N3	32:1a:1121:G:H3'	2.28	0.48
32:1a:1150:A:H2'	32:1a:1151:A:C8	2.49	0.48
32:1a:1268:A:H2'	32:1a:1269:A:C5'	2.42	0.48
32:1a:1307:C:O3'	52:1u:17:THR:HG21	2.13	0.48
32:1a:1409:C:O2'	32:1a:1410:U:H5'	2.12	0.48
33:1b:13:ALA:HA	33:1b:44:LEU:HD21	1.96	0.48
34:1c:7:PRO:HG3	34:1c:184:TYR:CD1	2.49	0.48
34:1c:15:THR:HG21	34:1c:181:ASN:HA	1.95	0.48
36:1e:78:HIS:HB2	39:1h:104:ARG:HG3	1.95	0.48
36:1e:102:ALA:HB2	36:1e:120:THR:CG2	2.40	0.48
37:1f:67:MET:HE1	37:1f:75:LEU:CD2	2.43	0.48
39:1h:82:HIS:NE2	39:1h:84:ARG:HG2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:1i:8:GLY:HA3	40:1i:79:LEU:HB3	1.95	0.48
1:2A:552:A:H3'	1:2A:552:A:N3	2.29	0.48
1:2A:575:G:O2'	1:2A:576:U:H5'	2.14	0.48
1:2A:640:G:OP1	5:2F:40:GLN:HG2	2.13	0.48
1:2A:789:G:O2'	1:2A:790:G:H5'	2.14	0.48
1:2A:984:G:H2'	1:2A:985:A:C5'	2.43	0.48
1:2A:1805:U:N3	1:2A:1806:G:H1'	2.28	0.48
1:2A:1941:OMC:CM2	1:2A:1942:G:H5'	2.25	0.48
1:2A:2110:U:O2'	1:2A:2111:G:H5'	2.14	0.48
1:2A:2452:C:OP1	59:2A:3893:HOH:O	2.20	0.48
1:2A:2554:G:H21	1:2A:2657:C:H5"	1.79	0.48
1:2A:2661:U:O2'	1:2A:2662:C:H5'	2.14	0.48
1:2A:2850:C:O2'	1:2A:2851:G:H5'	2.14	0.48
3:2D:276:LYS:O	3:2D:276:LYS:HG2	2.14	0.48
6:2G:47:LYS:O	6:2G:48:GLU:CB	2.62	0.48
7:2H:4:ILE:C	7:2H:6:ARG:H	2.22	0.48
8:2I:107:VAL:HG12	8:2I:108:THR:N	2.29	0.48
16:2U:62:ILE:HG23	16:2U:76:TYR:CE1	2.48	0.48
16:2U:68:ALA:O	16:2U:71:GLN:HB2	2.14	0.48
17:2V:66:ARG:O	17:2V:88:ARG:NH2	2.43	0.48
19:2X:59:VAL:HB	19:2X:76:ARG:HB2	1.95	0.48
32:2a:388:G:O2'	32:2a:389:A:H5'	2.14	0.48
32:2a:471:U:O2'	32:2a:472:A:H5'	2.13	0.48
32:2a:611:G:O2'	32:2a:612:G:H5'	2.14	0.48
32:2a:668:A:C2	42:2k:39:PRO:HG2	2.48	0.48
32:2a:897:A:O2'	32:2a:898:U:H5'	2.13	0.48
32:2a:1145:C:C2'	32:2a:1146:C:H5'	2.43	0.48
32:2a:1148:C:H2'	32:2a:1149:G:C5'	2.44	0.48
33:2b:162:ILE:O	33:2b:162:ILE:HG13	2.13	0.48
35:2d:67:ILE:HG22	35:2d:68:TYR:CD1	2.48	0.48
39:2h:92:ARG:HD2	39:2h:132:GLU:CD	2.38	0.48
40:2i:27:THR:HB	40:2i:62:TYR:HD1	1.79	0.48
42:2k:73:MET:HG2	42:2k:77:MET:O	2.14	0.48
44:2m:22:ILE:HB	44:2m:25:ILE:CB	2.43	0.48
45:2n:41:ARG:O	45:2n:44:LEU:HB3	2.13	0.48
46:2o:41:GLU:O	46:2o:44:LYS:HB2	2.13	0.48
48:2q:6:LEU:CD2	48:2q:23:VAL:HG21	2.43	0.48
1:1A:41:G:H1	1:1A:462:C:H42	1.60	0.48
1:1A:303:C:H2'	1:1A:303:C:O2	2.14	0.48
1:1A:376:G:O2'	1:1A:377:G:H5'	2.13	0.48
1:1A:560:A:O2'	1:1A:561:C:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:853:U:OP1	11:1P:36:LYS:HD3	2.14	0.48
1:1A:1087:G:C3'	1:1A:1088:C:H5'	2.44	0.48
1:1A:1132:G:H2'	1:1A:1134:G:H5'	1.94	0.48
1:1A:1144:G:O2'	1:1A:1145:C:H5'	2.13	0.48
1:1A:1634:C:H3'	59:1A:3937:HOH:O	2.13	0.48
1:1A:2155:A:H62	1:1A:2178:G:C4'	2.23	0.48
1:1A:2312:C:H2'	1:1A:2313:G:C8	2.48	0.48
1:1A:2347:A:H61	22:10:43:THR:CG2	2.27	0.48
6:1G:75:LYS:C	6:1G:84:LYS:HA	2.39	0.48
9:1N:14:VAL:HG13	9:1N:138:LEU:HG	1.94	0.48
10:1O:59:LYS:NZ	10:1O:89:ASN:OD1	2.40	0.48
11:1P:65:ARG:HG3	11:1P:66:GLY:N	2.28	0.48
12:1Q:52:VAL:O	12:1Q:55:VAL:HG22	2.13	0.48
16:1U:66:ASN:O	16:1U:70:ARG:HG3	2.14	0.48
17:1V:81:TYR:HD1	17:1V:83:ARG:NH1	2.12	0.48
32:1a:94:C:H2'	32:1a:95:A:C1'	2.43	0.48
32:1a:127:C:O2'	32:1a:128:U:H5'	2.14	0.48
32:1a:207:G:N2	32:1a:208:C:O2	2.46	0.48
32:1a:266:A:H2'	32:1a:267:C:C6	2.49	0.48
32:1a:342:G:H21	55:1a:1900:MPD:C5	2.27	0.48
32:1a:348:C:O2'	32:1a:350:G:OP1	2.32	0.48
32:1a:644:G:H2'	32:1a:645:G:O4'	2.13	0.48
32:1a:1189:2MG:O2'	32:1a:1190:C:P	2.71	0.48
32:1a:1294:G:O2'	32:1a:1295:U:H5'	2.14	0.48
33:1b:35:GLU:HA	33:1b:39:ILE:O	2.14	0.48
33:1b:137:ARG:NH1	33:1b:138:LEU:HG	2.29	0.48
34:1c:203:PHE:CZ	34:1c:205:GLY:HA2	2.48	0.48
35:1d:102:ASP:O	35:1d:117:ALA:HB1	2.13	0.48
38:1g:108:ALA:O	38:1g:119:ARG:HD2	2.14	0.48
42:1k:97:ALA:O	42:1k:101:SER:N	2.47	0.48
47:1p:52:ASP:O	47:1p:54:GLU:N	2.47	0.48
48:1q:4:LYS:O	48:1q:60:ILE:HA	2.14	0.48
1:2A:28:U:O5'	1:2A:28:U:H6	1.95	0.48
1:2A:84:C:C2'	1:2A:85:C:H5'	2.44	0.48
1:2A:321:G:N2	1:2A:364:G:O6	2.46	0.48
1:2A:351:U:H4'	20:2Y:68:HIS:CE1	2.49	0.48
1:2A:425:G:H2'	1:2A:426:G:C5'	2.43	0.48
1:2A:773:A:C2	3:2D:9:TYR:CD2	3.02	0.48
1:2A:1059:U:O2'	1:2A:1060:G:H5'	2.13	0.48
1:2A:1079:G:H5'	31:29:18:ARG:CD	2.44	0.48
1:2A:1513:C:H2'	1:2A:1514:C:H5'	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1697:G:C4’	13:2R:39:PRO:HG2	2.43	0.48
1:2A:1768:G:H2’	1:2A:1769:A:H8	1.77	0.48
1:2A:2084:C:C2’	1:2A:2085:C:H5’	2.41	0.48
1:2A:2186:G:H2’	1:2A:2187:G:O4’	2.14	0.48
1:2A:2314:G:C2’	6:2G:132:ASN:HD22	2.26	0.48
1:2A:2474:C:C2’	1:2A:2475:C:H5’	2.44	0.48
3:2D:94:LEU:HD23	3:2D:104:TYR:HE1	1.76	0.48
3:2D:162:SER:HB3	3:2D:195:ALA:HB1	1.95	0.48
3:2D:231:HIS:CD2	3:2D:249:PRO:HG3	2.49	0.48
5:2F:65:TRP:CZ2	5:2F:75:HIS:HD2	2.31	0.48
5:2F:194:MET:HE3	5:2F:199:TRP:HE3	1.79	0.48
7:2H:13:LYS:HA	7:2H:15:VAL:N	2.21	0.48
7:2H:87:LEU:CD2	7:2H:164:TYR:HA	2.44	0.48
7:2H:105:LEU:O	7:2H:106:THR:OG1	2.29	0.48
11:2P:85:LEU:HD13	11:2P:120:ALA:CA	2.44	0.48
18:2W:56:ALA:HB1	18:2W:60:ASN:ND2	2.27	0.48
30:28:24:ALA:O	30:28:48:PHE:HD1	1.97	0.48
32:2a:148:C:H2’	32:2a:149:C:H6	1.79	0.48
32:2a:507:A:N6	43:2l:92:0TD:OD2	2.45	0.48
32:2a:646:G:H2’	32:2a:647:A:H8	1.74	0.48
32:2a:840:C:C2’	32:2a:841:U:H5’	2.43	0.48
32:2a:898:U:H2’	32:2a:899:U:C6	2.43	0.48
32:2a:971:G:H2’	32:2a:973:C:H41	1.78	0.48
32:2a:1298:G:H5”	32:2a:1299:C:OP2	2.14	0.48
32:2a:1503:G:O2’	32:2a:1504:G:H5’	2.14	0.48
34:2c:14:ILE:HD11	45:2n:57:ARG:HH21	1.78	0.48
36:2e:105:VAL:CB	36:2e:106:PRO:CD	2.91	0.48
39:2h:6:ILE:O	39:2h:10:LEU:HG	2.13	0.48
39:2h:25:ASP:OD1	39:2h:60:ARG:HG3	2.13	0.48
40:2i:94:ALA:O	40:2i:95:LYS:CB	2.62	0.48
41:2j:79:ARG:HA	41:2j:82:ILE:CB	2.44	0.48
44:2m:13:LYS:HE2	44:2m:21:TYR:HH	1.77	0.48
50:2s:52:TYR:CB	50:2s:57:HIS:CE1	2.97	0.48
1:1A:214:G:H21	1:1A:216:A:N6	2.12	0.48
1:1A:505:A:C2’	1:1A:506:G:OP1	2.61	0.48
1:1A:791:G:H2’	1:1A:792:A:H5’	1.95	0.48
1:1A:909:A:H2’	1:1A:910:G:H8	1.75	0.48
1:1A:942:C:H6	1:1A:942:C:O5’	1.97	0.48
1:1A:1555:A:H2’	1:1A:1556:A:O4’	2.12	0.48
1:1A:1942:G:O2’	1:1A:1943:G:H5’	2.14	0.48
1:1A:2102:C:O2’	1:1A:2103:A:H5’	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2111:G:N3	23:11:45:ASN:ND2	2.59	0.48
1:1A:2334:G:H2'	1:1A:2335:C:O4'	2.14	0.48
1:1A:2400:G:C5'	1:1A:2401:U:H5'	2.41	0.48
6:1G:171:ALA:O	6:1G:175:LEU:N	2.38	0.48
9:1N:62:VAL:HG11	9:1N:67:LEU:HD12	1.96	0.48
10:1O:98:VAL:CG2	10:1O:118:ALA:HA	2.43	0.48
18:1W:40:ASN:O	18:1W:41:LYS:HG3	2.13	0.48
21:1Z:92:SER:C	21:1Z:94:GLU:H	2.22	0.48
24:12:13:ALA:HA	24:12:16:LEU:HD12	1.96	0.48
28:16:20:ASN:HB3	28:16:21:TYR:CD1	2.49	0.48
30:18:26:LYS:HB2	30:18:46:ARG:O	2.12	0.48
32:1a:306:G:O2'	32:1a:307:C:H5'	2.12	0.48
32:1a:381:C:HO2'	32:1a:382:C:H5'	1.77	0.48
32:1a:722:C:O2'	32:1a:723:C:H5'	2.14	0.48
32:1a:1185:C:O2'	32:1a:1186:A:H5'	2.13	0.48
32:1a:1199:C:H5"	45:1n:9:LYS:CE	2.44	0.48
32:1a:1215:G:H2'	32:1a:1216:C:C6	2.49	0.48
32:1a:1215:G:H2'	32:1a:1216:C:H6	1.79	0.48
32:1a:1280:C:C4	38:1g:114:ARG:HD3	2.49	0.48
32:1a:1302:C:O4'	50:1s:73:GLU:HG2	2.14	0.48
34:1c:108:ASN:OD1	34:1c:109:PRO:HD2	2.13	0.48
35:1d:11:LEU:CD2	35:1d:66:ARG:HB3	2.40	0.48
36:1e:43:LEU:HD21	36:1e:132:ALA:HB1	1.95	0.48
43:1l:26:ALA:HA	43:1l:64:TYR:CE2	2.49	0.48
1:2A:318:G:H5'	20:2Y:1:MET:CE	2.44	0.48
1:2A:575:G:C2'	1:2A:576:U:H5'	2.44	0.48
1:2A:896:C:O3'	25:23:49:LYS:HE3	2.13	0.48
1:2A:1044:U:H5"	1:2A:1199:G:O6	2.14	0.48
1:2A:1165:G:O2'	1:2A:1166:C:H5'	2.13	0.48
1:2A:1861:G:H1	1:2A:1995:C:H42	1.60	0.48
1:2A:2010:G:C2'	1:2A:2011:C:H5'	2.44	0.48
1:2A:2387:A:H2'	1:2A:2388:A:O4'	2.13	0.48
1:2A:2634:G:H2'	1:2A:2635:G:H8	1.79	0.48
2:2B:69:G:H2'	2:2B:70:C:C6	2.49	0.48
3:2D:52:ARG:O	3:2D:53:PHE:HB2	2.13	0.48
4:2E:113:PHE:HD1	4:2E:158:GLY:C	2.21	0.48
6:2G:117:PHE:HE1	6:2G:120:LEU:HD23	1.79	0.48
7:2H:73:ALA:O	7:2H:76:VAL:N	2.46	0.48
11:2P:93:GLY:H	11:2P:123:LEU:CD2	2.27	0.48
14:2S:13:ARG:HG2	14:2S:14:VAL:H	1.79	0.48
23:21:20:ARG:HA	23:21:33:LYS:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:24:25:TYR:O	26:24:26:SER:HB2	2.13	0.48
26:24:58:ARG:HH21	50:2s:68:GLY:H	1.61	0.48
31:29:12:ASP:OD1	31:29:12:ASP:N	2.47	0.48
32:2a:372:G:O2'	32:2a:373:G:H5'	2.14	0.48
32:2a:565:G:HO2'	32:2a:566:U:C5'	2.26	0.48
32:2a:1194:U:H5'	32:2a:1195:A:C8	2.49	0.48
33:2b:7:VAL:HG12	33:2b:8:LYS:HG2	1.95	0.48
33:2b:81:VAL:HG13	33:2b:82:ARG:N	2.29	0.48
33:2b:141:GLU:O	33:2b:144:ARG:HB3	2.14	0.48
34:2c:152:ILE:HG22	34:2c:167:TRP:HB3	1.95	0.48
37:2f:60:PHE:HE2	49:2r:78:LEU:CD2	2.26	0.48
39:2h:17:THR:HG22	39:2h:63:LEU:HD23	1.95	0.48
39:2h:25:ASP:OD1	39:2h:60:ARG:CG	2.61	0.48
44:2m:15:VAL:HG11	44:2m:48:LEU:CD2	2.25	0.48
45:2n:45:ARG:HG2	45:2n:49:HIS:HD2	1.72	0.48
46:2o:41:GLU:HA	46:2o:44:LYS:HD2	1.96	0.48
48:2q:58:GLU:CD	48:2q:75:ARG:HH21	2.22	0.48
48:2q:62:SER:CB	48:2q:72:ARG:HH11	2.25	0.48
49:2r:21:LYS:NZ	49:2r:54:ARG:O	2.40	0.48
49:2r:33:ASP:O	49:2r:40:LEU:HD11	2.14	0.48
1:1A:149:C:C2'	1:1A:150:C:H5'	2.44	0.48
1:1A:853:U:O2'	1:1A:854:G:H5'	2.14	0.48
1:1A:871:C:O2	11:1P:55:ARG:HD3	2.14	0.48
1:1A:1085:C:H2'	1:1A:1086:C:C6	2.48	0.48
1:1A:1096:G:C2'	1:1A:1097:C:H5'	2.44	0.48
1:1A:1393:G:N7	59:1A:4516:HOH:O	2.35	0.48
1:1A:1484:A:C2'	1:1A:1485:G:H5'	2.44	0.48
1:1A:2020:C:C2'	1:1A:2021:G:H5'	2.43	0.48
1:1A:2658:U:H2'	1:1A:2659:C:H6	1.79	0.48
1:1A:2879:C:H2'	1:1A:2880:C:C5'	2.44	0.48
5:1F:182:ASN:OD1	5:1F:185:ASP:HB2	2.13	0.48
6:1G:71:THR:O	6:1G:88:ILE:HG12	2.14	0.48
13:1R:72:ASP:O	13:1R:76:VAL:HG23	2.14	0.48
16:1U:14:HIS:HA	16:1U:32:PHE:CE1	2.48	0.48
16:1U:68:ALA:O	16:1U:71:GLN:N	2.46	0.48
18:1W:38:TYR:HD1	18:1W:38:TYR:N	2.12	0.48
31:19:25:VAL:HB	31:19:34:GLN:HB2	1.94	0.48
32:1a:214:C:O2'	32:1a:215:C:H5'	2.14	0.48
32:1a:401:U:H2'	32:1a:401:U:O2	2.13	0.48
32:1a:1339:A:H2'	32:1a:1340:U:H5'	1.95	0.48
32:1a:1463:U:O2'	32:1a:1464:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1483:G:OP2	59:1a:2051:HOH:O	2.20	0.48
33:1b:112:VAL:O	33:1b:115:LEU:N	2.47	0.48
33:1b:187:LEU:CD1	33:1b:214:ILE:HG13	2.44	0.48
36:1e:78:HIS:CG	39:1h:104:ARG:HD2	2.49	0.48
37:1f:44:GLY:C	37:1f:59:TYR:HD1	2.22	0.48
40:1i:5:TYR:CD1	40:1i:18:PHE:CE1	3.02	0.48
40:1i:42:ARG:O	40:1i:42:ARG:HG2	2.14	0.48
43:1l:90:VAL:HG12	43:1l:92:0TD:OD2	2.14	0.48
47:1p:68:ASP:O	47:1p:71:ARG:HB3	2.14	0.48
1:2A:231:U:C2'	1:2A:232:A:H5'	2.43	0.48
1:2A:562:G:O2'	1:2A:563:G:H5'	2.14	0.48
1:2A:961:G:O2'	1:2A:962:A:O4'	2.32	0.48
1:2A:1044:U:O2'	1:2A:1045:A:H5'	2.14	0.48
1:2A:1265:C:N4	1:2A:1274:G:H1	2.11	0.48
1:2A:1287:A:H2'	1:2A:1288:G:H5'	1.96	0.48
1:2A:1763:G:H2'	1:2A:1764:U:H5'	1.95	0.48
1:2A:2411:G:H2'	1:2A:2412:U:C6	2.47	0.48
1:2A:2695:U:H5"	15:2T:75:ILE:HD13	1.96	0.48
1:2A:2870:G:C2'	1:2A:2871:G:H5'	2.44	0.48
3:2D:117:VAL:O	3:2D:118:VAL:HB	2.14	0.48
9:2N:91:LEU:HD21	9:2N:98:VAL:HG21	1.95	0.48
10:2O:104:ARG:HH12	15:2T:34:VAL:HG22	1.78	0.48
11:2P:129:ALA:C	11:2P:130:PHE:HD1	2.22	0.48
14:2S:93:LYS:HD3	14:2S:94:TYR:C	2.38	0.48
16:2U:3:ARG:NH2	16:2U:5:LYS:HB3	2.29	0.48
17:2V:25:LEU:C	17:2V:27:ALA:H	2.22	0.48
21:2Z:30:ASN:O	21:2Z:31:ARG:C	2.57	0.48
21:2Z:73:GLN:HB3	21:2Z:87:ASP:HB2	1.96	0.48
23:21:69:LYS:HD3	23:21:72:GLU:OE1	2.14	0.48
26:24:61:ARG:HD3	50:2s:42:PRO:HD3	1.96	0.48
29:27:34:ARG:HE	29:27:42:LEU:HA	1.78	0.48
32:2a:101:G:O6	51:2t:15:ARG:NH2	2.47	0.48
32:2a:287:C:C2'	32:2a:288:G:H5'	2.44	0.48
32:2a:427:A:C2	32:2a:428:A:H1'	2.49	0.48
32:2a:636:U:H1'	32:2a:637:A:C2	2.49	0.48
32:2a:1057:G:H4'	33:2b:103:THR:O	2.14	0.48
32:2a:1316:G:O2'	32:2a:1319:G:N2	2.47	0.48
32:2a:1351:G:H5"	40:2i:112:LYS:CG	2.44	0.48
32:2a:1494:G:N2	32:2a:1497:MA6:OP2	2.47	0.48
33:2b:45:GLN:O	33:2b:49:GLU:HG2	2.13	0.48
33:2b:47:THR:O	33:2b:51:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:71:VAL:HG23	33:2b:71:VAL:O	2.14	0.48
33:2b:145:LEU:HD22	33:2b:149:LEU:CD1	2.44	0.48
34:2c:113:ALA:HB1	34:2c:200:ALA:HB3	1.95	0.48
35:2d:173:TRP:CD2	35:2d:189:PRO:HG3	2.49	0.48
37:2f:100:ASN:HB2	49:2r:27:GLY:C	2.39	0.48
38:2g:46:ALA:O	38:2g:49:ILE:N	2.47	0.48
39:2h:44:PHE:CZ	39:2h:138:TRP:HA	2.49	0.48
39:2h:81:HIS:HB2	39:2h:138:TRP:OXT	2.14	0.48
41:2j:37:PRO:HA	41:2j:72:VAL:CG1	2.44	0.48
44:2m:80:ARG:CZ	44:2m:84:ILE:HD13	2.43	0.48
44:2m:108:ARG:CZ	44:2m:114:ARG:HG2	2.44	0.48
47:2p:51:VAL:HG12	47:2p:52:ASP:N	2.29	0.48
49:2r:25:THR:OG1	49:2r:26:LEU:HD12	2.14	0.48
51:2t:14:LYS:HA	51:2t:17:ARG:NH2	2.29	0.48
1:1A:829:A:N3	1:1A:829:A:H2'	2.28	0.47
1:1A:863:C:H4'	1:1A:976:G:C5	2.49	0.47
1:1A:986:G:H4'	1:1A:1234:G:H5'	1.95	0.47
1:1A:1012:G:O2'	1:1A:1013:U:H5'	2.14	0.47
1:1A:1138:G:H2'	1:1A:1143:A:H61	1.78	0.47
1:1A:1287:A:C2'	1:1A:1288:G:H5'	2.44	0.47
1:1A:1862:C:H2'	1:1A:1863:U:O5'	2.14	0.47
1:1A:2678:C:H1'	7:1H:109:PHE:HD1	1.78	0.47
1:1A:2679:G:C2'	1:1A:2680:G:H5'	2.44	0.47
1:1A:2901:G:H4'	1:1A:2902:G:O5'	2.14	0.47
4:1E:110:GLY:HA3	4:1E:162:ALA:HB2	1.95	0.47
5:1F:10:PRO:O	5:1F:124:LEU:HD12	2.14	0.47
6:1G:54:GLU:HA	6:1G:57:ALA:HB3	1.96	0.47
6:1G:161:THR:HG22	6:1G:163:ALA:H	1.77	0.47
8:1I:5:LEU:HD11	8:1I:19:VAL:HG22	1.94	0.47
9:1N:9:VAL:HG22	59:1N:310:HOH:O	2.13	0.47
9:1N:13:TRP:CZ2	9:1N:51:PHE:HD2	2.32	0.47
21:1Z:100:VAL:N	21:1Z:124:ILE:O	2.39	0.47
23:11:69:LYS:O	23:11:72:GLU:HB3	2.13	0.47
26:14:28:LYS:HB2	26:14:31:ILE:HD11	1.95	0.47
27:15:10:LYS:NZ	59:15:203:HOH:O	2.25	0.47
32:1a:9:A:H5'	36:1e:101:ILE:O	2.14	0.47
32:1a:71:G:O2'	32:1a:72:C:H5'	2.14	0.47
32:1a:212:G:O2'	32:1a:213:C:O5'	2.29	0.47
32:1a:252:U:O2'	32:1a:253:G:H5'	2.13	0.47
32:1a:481:A:OP2	59:1a:2068:HOH:O	2.20	0.47
32:1a:1134:A:O2'	32:1a:1135:A:H8	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1269:A:N3	32:1a:1335:G:O2'	2.41	0.47
32:1a:1385:4OC:HM22	32:1a:1385:4OC:O3'	2.14	0.47
32:1a:1388:G:H1'	32:1a:1497:MA6:O4'	2.14	0.47
32:1a:1399:G:C2'	32:1a:1400:G:H5'	2.44	0.47
35:1d:75:PHE:CE1	35:1d:93:PHE:CZ	3.02	0.47
36:1e:15:ARG:HG3	36:1e:28:PHE:CD1	2.49	0.47
39:1h:9:MET:HE1	39:1h:35:ILE:HG21	1.95	0.47
40:1i:70:LYS:O	40:1i:73:GLN:N	2.46	0.47
45:1n:29:ARG:HD2	45:1n:42:ILE:CD1	2.44	0.47
46:1o:79:ARG:O	46:1o:80:ALA:C	2.56	0.47
48:1q:78:GLU:HG2	48:1q:79:SER:H	1.79	0.47
49:1r:56:THR:O	49:1r:58:LEU:HD12	2.14	0.47
52:1u:17:THR:C	52:1u:18:TYR:CD1	2.92	0.47
1:2A:63:C:O2'	1:2A:64:C:H5'	2.13	0.47
1:2A:106:G:C2'	1:2A:107:G:H5'	2.43	0.47
1:2A:113:C:O2'	1:2A:114:G:H5'	2.14	0.47
1:2A:359:C:H4'	20:2Y:6:HIS:CD2	2.49	0.47
1:2A:647:G:O2'	1:2A:648:C:H5'	2.14	0.47
1:2A:794:G:P	18:2W:88:ARG:HH21	2.37	0.47
1:2A:990:G:O2'	1:2A:991:G:H5'	2.13	0.47
1:2A:1039:C:O2'	1:2A:1041:A:OP1	2.26	0.47
1:2A:1057:U:O2	9:2N:25:ARG:NH1	2.47	0.47
1:2A:1057:U:O4	9:2N:25:ARG:HA	2.14	0.47
1:2A:1113:G:P	1:2A:1113:G:O4'	2.71	0.47
1:2A:1118:A:H2'	1:2A:1119:G:H8	1.79	0.47
1:2A:1205:G:H21	17:2V:9:GLY:HA3	1.79	0.47
1:2A:1338:C:O2'	1:2A:1339:U:H5'	2.14	0.47
1:2A:1784:C:H5"	15:2T:113:LYS:HE2	1.95	0.47
1:2A:1914:C:H2'	1:2A:1915:C:H5'	1.95	0.47
1:2A:2193:U:O3'	1:2A:2194:A:H8	1.96	0.47
1:2A:2194:A:H2'	1:2A:2195:C:H5'	1.96	0.47
2:2B:9:G:OP1	14:2S:25:ARG:NH1	2.36	0.47
3:2D:31:LYS:O	3:2D:34:VAL:HG22	2.14	0.47
5:2F:182:ASN:OD1	5:2F:185:ASP:HB2	2.13	0.47
10:2O:68:GLU:HA	10:2O:77:ILE:O	2.14	0.47
15:2T:106:SER:OG	15:2T:109:GLU:HG3	2.14	0.47
18:2W:23:LEU:HD11	27:25:27:PRO:CA	2.44	0.47
19:2X:35:THR:H	19:2X:38:GLU:HB3	1.79	0.47
20:2Y:7:VAL:CG1	20:2Y:8:LYS:N	2.76	0.47
20:2Y:31:LEU:O	20:2Y:36:ALA:N	2.43	0.47
20:2Y:89:PHE:HE1	20:2Y:95:LYS:CD	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:58:VAL:HA	21:2Z:68:PRO:HA	1.95	0.47
25:23:7:LYS:O	25:23:9:VAL:HG13	2.14	0.47
30:28:25:MET:HE2	30:28:47:LYS:HG2	1.96	0.47
32:2a:223:G:H2'	32:2a:224:A:O4'	2.13	0.47
32:2a:547:A:H2'	32:2a:551:G:C8	2.49	0.47
32:2a:647:A:H5'	32:2a:820:G:OP1	2.14	0.47
32:2a:1059:C:C2'	32:2a:1060:G:H5'	2.44	0.47
32:2a:1160:G:H22	32:2a:1163:G:P	2.37	0.47
33:2b:63:MET:CG	33:2b:225:ALA:HB1	2.44	0.47
33:2b:179:LYS:C	33:2b:181:PHE:H	2.21	0.47
33:2b:184:VAL:H	33:2b:198:ASP:HB2	1.79	0.47
34:2c:8:ILE:CD1	34:2c:184:TYR:HB3	2.44	0.47
36:2e:78:HIS:CD2	39:2h:104:ARG:HH11	2.31	0.47
36:2e:94:ALA:HB2	36:2e:119:LEU:HG	1.95	0.47
37:2f:10:LEU:HD13	37:2f:61:LEU:HD13	1.95	0.47
39:2h:86:ILE:HD11	39:2h:136:GLU:HG2	1.96	0.47
39:2h:116:LYS:HD3	39:2h:129:VAL:HG11	1.96	0.47
40:2i:4:TYR:N	40:2i:19:LEU:O	2.43	0.47
40:2i:9:ARG:HA	40:2i:13:ALA:O	2.14	0.47
40:2i:17:VAL:CG2	40:2i:63:ILE:HG12	2.41	0.47
44:2m:80:ARG:CD	44:2m:81:LEU:HD12	2.44	0.47
1:1A:40:C:O2'	1:1A:41:G:H5'	2.14	0.47
1:1A:214:G:H21	1:1A:216:A:H62	1.62	0.47
1:1A:235:G:H4'	1:1A:412:G:C5	2.49	0.47
1:1A:321:G:N7	59:1A:4520:HOH:O	2.35	0.47
1:1A:484:U:H2'	1:1A:485:A:H8	1.78	0.47
1:1A:633:C:H42	1:1A:641:G:H1	1.62	0.47
1:1A:722:A:H1'	1:1A:2454:C:H1'	1.95	0.47
1:1A:732:G:N2	1:1A:834:A:H61	2.12	0.47
1:1A:758:G:C2'	1:1A:759:G:H5'	2.41	0.47
1:1A:884:C:C2'	1:1A:885:U:H5'	2.44	0.47
1:1A:1138:G:H1'	1:1A:1144:G:N1	2.28	0.47
1:1A:1323:A:OP1	13:1R:36:THR:HG22	2.14	0.47
1:1A:1938:PSU:C2'	1:1A:1939:A:H5'	2.44	0.47
1:1A:2114:G:O2'	8:1I:25:TYR:HB2	2.14	0.47
1:1A:2330:G:C2	14:1S:3:ARG:HA	2.49	0.47
1:1A:2430:U:O2'	1:1A:2431:C:H5'	2.14	0.47
1:1A:2555:G:O2'	1:1A:2556:G:H5'	2.13	0.47
6:1G:27:ASN:OD1	6:1G:28:VAL:N	2.47	0.47
7:1H:12:PRO:HD2	7:1H:76:VAL:CG1	2.44	0.47
13:1R:56:LYS:HE3	13:1R:88:ARG:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1S:66:ALA:HA	14:1S:69:VAL:HG22	1.96	0.47
17:1V:1:MET:HE2	17:1V:43:GLU:OE1	2.14	0.47
19:1X:69:TYR:CD1	19:1X:69:TYR:N	2.83	0.47
21:1Z:150:LEU:HD12	21:1Z:154:ASP:OD2	2.14	0.47
26:14:59:PHE:CD1	50:1s:45:VAL:CG2	2.97	0.47
32:1a:15:U:N3	32:1a:18:U:OP2	2.38	0.47
32:1a:702:G:C4	42:1k:116:HIS:ND1	2.82	0.47
32:1a:767:C:O2'	32:1a:768:C:H5'	2.15	0.47
32:1a:865:G:O2'	32:1a:866:G:H5'	2.15	0.47
33:1b:27:LYS:O	33:1b:194:PRO:HG2	2.14	0.47
34:1c:55:VAL:HA	34:1c:67:THR:O	2.15	0.47
34:1c:183:ASP:OD1	34:1c:184:TYR:N	2.47	0.47
37:1f:22:GLU:OE2	37:1f:82:ARG:NH2	2.29	0.47
41:1j:9:ARG:O	41:1j:94:VAL:HA	2.14	0.47
44:1m:91:ARG:O	44:1m:110:ARG:NH2	2.46	0.47
45:1n:16:PHE:CD1	45:1n:16:PHE:N	2.82	0.47
46:1o:36:ILE:O	46:1o:39:LEU:N	2.48	0.47
1:2A:818:C:H5'	1:2A:1400:G:O2'	2.14	0.47
1:2A:907:A:C2'	1:2A:908:G:H5'	2.43	0.47
1:2A:932:C:H2'	1:2A:933:A:C5'	2.44	0.47
1:2A:1299:A:H5"	1:2A:1300:U:C5'	2.38	0.47
1:2A:1721:C:O2	4:2E:128:SER:OG	2.32	0.47
1:2A:2132:C:O4'	1:2A:2139:U:H4'	2.13	0.47
1:2A:2301:G:N2	1:2A:2354:C:H1'	2.27	0.47
1:2A:2314:G:H2'	1:2A:2315:G:C8	2.49	0.47
1:2A:2421:G:C2	1:2A:2422:A:H1'	2.49	0.47
5:2F:74:ARG:HG3	5:2F:74:ARG:O	2.14	0.47
6:2G:78:SER:OG	6:2G:79:ASN:N	2.44	0.47
6:2G:137:GLU:N	6:2G:154:GLY:HA2	2.29	0.47
10:2O:64:ARG:HB3	10:2O:79:PHE:CD2	2.49	0.47
12:2Q:7:MET:O	21:2Z:197:ILE:HG13	2.13	0.47
12:2Q:17:LEU:HD11	12:2Q:41:TRP:CD1	2.49	0.47
12:2Q:37:LEU:HG	12:2Q:129:THR:HA	1.95	0.47
12:2Q:52:VAL:HA	12:2Q:55:VAL:HG22	1.96	0.47
13:2R:113:LEU:HD12	13:2R:113:LEU:O	2.14	0.47
21:2Z:99:TYR:HD2	21:2Z:123:ASP:OD2	1.97	0.47
24:22:39:ALA:HB2	24:22:44:LEU:HD23	1.95	0.47
25:23:8:LEU:HD12	25:23:53:LEU:O	2.14	0.47
26:24:14:ILE:HG22	26:24:15:ILE:N	2.28	0.47
26:24:45:GLY:O	26:24:47:GLN:N	2.40	0.47
28:26:47:THR:HG22	28:26:48:VAL:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:28:17:THR:CG2	30:28:21:LYS:HB2	2.43	0.47
32:2a:142:G:O2'	32:2a:143:G:H5'	2.13	0.47
32:2a:299:A:O2'	32:2a:539:C:H4'	2.14	0.47
32:2a:1312:U:H4'	44:2m:23:TYR:CE1	2.49	0.47
32:2a:1489:G:O2'	32:2a:1490:U:H5'	2.14	0.47
33:2b:18:GLY:O	33:2b:19:HIS:HB2	2.14	0.47
33:2b:165:VAL:HG12	33:2b:166:ASP:H	1.78	0.47
34:2c:88:ARG:O	34:2c:91:LEU:HB3	2.14	0.47
35:2d:8:VAL:HG22	35:2d:21:LEU:CD1	2.44	0.47
36:2e:16:THR:N	36:2e:27:ARG:O	2.47	0.47
36:2e:134:ALA:O	36:2e:137:GLU:HB2	2.14	0.47
38:2g:50:ILE:HD11	38:2g:58:PRO:CG	2.43	0.47
40:2i:98:PRO:C	40:2i:99:LEU:HD12	2.39	0.47
41:2j:33:GLN:O	41:2j:74:ILE:HA	2.13	0.47
43:2l:6:THR:O	43:2l:10:LEU:HG	2.14	0.47
45:2n:54:PRO:C	45:2n:56:VAL:H	2.23	0.47
48:2q:82:MET:O	48:2q:85:VAL:HB	2.13	0.47
50:2s:40:ILE:HG13	50:2s:71:LEU:CD1	2.43	0.47
1:1A:292:C:H2'	1:1A:293:C:H5'	1.97	0.47
1:1A:866:A:H1'	1:1A:987:U:H1'	1.96	0.47
1:1A:1295:G:H5"	59:1U:308:HOH:O	2.13	0.47
1:1A:1372:C:O2'	1:1A:1373:G:H5'	2.14	0.47
1:1A:1543:C:C1'	1:1A:1623:C:H4'	2.44	0.47
1:1A:1789:A:H5"	1:1A:2727:C:H1'	1.95	0.47
1:1A:1815:A:OP1	59:1A:4363:HOH:O	2.20	0.47
1:1A:1879:G:H2'	1:1A:1880:G:H8	1.79	0.47
1:1A:2029:C:H2'	1:1A:2030:G:C8	2.49	0.47
1:1A:2171:U:O2'	1:1A:2172:G:H5'	2.14	0.47
1:1A:2316:A:H1'	6:1G:135:LEU:O	2.14	0.47
1:1A:2389:A:H4'	14:1S:23:ARG:NH1	2.28	0.47
1:1A:2401:U:C2'	1:1A:2402:G:H5'	2.44	0.47
1:1A:2527:G:C2'	1:1A:2528:C:H5'	2.44	0.47
1:1A:2797:C:H2'	1:1A:2798:U:O4'	2.14	0.47
3:1D:80:ALA:CB	3:1D:94:LEU:HD12	2.33	0.47
3:1D:233:HIS:NE2	3:1D:246:PRO:HA	2.29	0.47
6:1G:48:GLU:O	6:1G:49:ASP:C	2.58	0.47
12:1Q:21:THR:HG22	12:1Q:23:GLY:H	1.79	0.47
14:1S:14:VAL:HG23	14:1S:15:ARG:HG3	1.96	0.47
14:1S:34:HIS:HB2	14:1S:36:TYR:CE1	2.47	0.47
19:1X:47:PHE:O	19:1X:49:VAL:HG13	2.14	0.47
26:14:30:GLU:O	26:14:31:ILE:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:16:38:LYS:HB2	28:16:49:HIS:ND1	2.29	0.47
30:18:52:LYS:O	30:18:56:GLU:HG3	2.14	0.47
32:1a:205:G:H2'	32:1a:206:G:C8	2.46	0.47
32:1a:373:G:H1	32:1a:382:C:H42	1.61	0.47
32:1a:548:C:H5'	48:1q:32:TYR:HE1	1.78	0.47
32:1a:699:A:H5"	32:1a:789:C:H1'	1.96	0.47
32:1a:1003:G:H21	32:1a:1004:U:C4'	2.28	0.47
32:1a:1054:C:H2'	32:1a:1055:G:C8	2.48	0.47
37:1f:82:ARG:HB2	37:1f:85:VAL:HB	1.96	0.47
38:1g:31:MET:CA	38:1g:39:ALA:HB2	2.44	0.47
38:1g:42:ILE:HD13	38:1g:116:ALA:HB1	1.95	0.47
38:1g:102:ARG:O	38:1g:102:ARG:HG2	2.15	0.47
41:1j:62:HIS:HB2	45:1n:59:ALA:HB3	1.93	0.47
43:1l:117:ARG:HH12	43:1l:124:LYS:HA	1.78	0.47
44:1m:37:THR:C	44:1m:55:ARG:HH12	2.20	0.47
47:1p:15:PRO:O	47:1p:16:HIS:ND1	2.47	0.47
48:1q:88:TYR:O	48:1q:91:ARG:HB3	2.14	0.47
51:1t:46:GLU:HG3	51:1t:48:LYS:HD2	1.95	0.47
1:2A:183:A:H4'	1:2A:184:A:OP2	2.15	0.47
1:2A:272:G:C1'	1:2A:273:U:OP1	2.62	0.47
1:2A:388:G:C2'	1:2A:389:G:H5'	2.44	0.47
1:2A:799:C:O5'	1:2A:799:C:H6	1.97	0.47
1:2A:920:G:OP1	12:2Q:63:LYS:HE2	2.14	0.47
1:2A:934:C:H5"	1:2A:935:C:OP2	2.15	0.47
1:2A:1009:C:C2'	1:2A:1010:G:H5'	2.44	0.47
1:2A:1049:C:O2	1:2A:1055:A:H2'	2.14	0.47
1:2A:1108:G:H2'	1:2A:1110:U:C6	2.50	0.47
1:2A:1163:C:H2'	1:2A:1164:C:C6	2.49	0.47
1:2A:1187:A:H2'	1:2A:1187:A:N3	2.29	0.47
1:2A:1260:G:N1	1:2A:1278:C:N3	2.46	0.47
1:2A:1613:A:C8	3:2D:84:TYR:HE2	2.32	0.47
1:2A:2013:G:C1'	1:2A:2014:U:OP2	2.62	0.47
1:2A:2072:A:H8	1:2A:2072:A:OP2	1.97	0.47
1:2A:2202:G:H2'	1:2A:2203:G:H8	1.77	0.47
1:2A:2385:C:O2'	1:2A:2386:G:H5'	2.13	0.47
2:2B:86:G:H1	2:2B:91:C:N4	2.09	0.47
3:2D:51:VAL:HG12	3:2D:54:ARG:HD2	1.95	0.47
3:2D:73:VAL:HA	3:2D:119:ALA:O	2.14	0.47
3:2D:169:GLU:HG2	3:2D:184:LYS:HZ2	1.77	0.47
5:2F:197:ASP:O	5:2F:201:VAL:HG13	2.13	0.47
8:2I:125:GLU:OE1	8:2I:143:SER:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:103:VAL:HG12	9:2N:107:LEU:CG	2.45	0.47
10:2O:22:ILE:N	10:2O:40:VAL:O	2.43	0.47
10:2O:43:VAL:CG1	10:2O:54:GLU:HA	2.44	0.47
14:2S:10:ARG:HE	14:2S:91:PRO:C	2.23	0.47
21:2Z:56:VAL:HA	21:2Z:70:LEU:HD21	1.96	0.47
23:21:51:VAL:N	23:21:58:ILE:O	2.42	0.47
25:23:15:TYR:CE2	25:23:53:LEU:HD21	2.49	0.47
32:2a:143:G:O2'	32:2a:144:A:H5'	2.14	0.47
32:2a:210:U:OP2	32:2a:210:U:H2'	2.14	0.47
32:2a:365:C:C2'	32:2a:366:C:H5'	2.44	0.47
32:2a:662:U:O2'	32:2a:663:C:H5'	2.14	0.47
32:2a:757:G:H2'	32:2a:758:G:O5'	2.13	0.47
32:2a:837:A:H2'	32:2a:838:A:O4'	2.14	0.47
32:2a:1094:A:N1	34:2c:177:THR:OG1	2.32	0.47
36:2e:94:ALA:HB1	36:2e:98:THR:HG21	1.96	0.47
38:2g:65:ALA:HB2	38:2g:128:ALA:HB2	1.95	0.47
39:2h:17:THR:HG22	39:2h:63:LEU:CD2	2.45	0.47
39:2h:20:TYR:HA	39:2h:65:TYR:HE2	1.74	0.47
39:2h:114:THR:OG1	39:2h:117:GLY:O	2.20	0.47
44:2m:11:ARG:HA	44:2m:45:VAL:CG1	2.44	0.47
45:2n:25:VAL:HG22	45:2n:39:LEU:CD2	2.44	0.47
47:2p:6:LEU:HD12	47:2p:17:TYR:HB2	1.95	0.47
1:1A:212:G:O6	1:1A:445:C:O2'	2.33	0.47
1:1A:331:G:O2'	1:1A:352:G:N2	2.47	0.47
1:1A:571:A:O2'	1:1A:572:G:OP1	2.30	0.47
1:1A:994:G:H1	1:1A:1011:C:H42	1.62	0.47
1:1A:1685:U:P	1:1A:2720:G:H21	2.36	0.47
1:1A:1704:C:N4	1:1A:1705:U:O4	2.47	0.47
1:1A:2018:G:C2'	1:1A:2019:G:H5'	2.44	0.47
1:1A:2239:G:P	3:1D:263:ARG:HH12	2.36	0.47
1:1A:2585:G:O2'	4:1E:143:ASN:HB3	2.15	0.47
1:1A:2601:A:O2'	1:1A:2602:C:H5'	2.14	0.47
1:1A:2653:G:H1	1:1A:2784:C:H42	1.63	0.47
2:1B:111:G:H2'	2:1B:112:U:C6	2.49	0.47
2:1B:117:G:H5'	14:1S:55:ALA:HB2	1.96	0.47
10:1O:11:ALA:HB2	10:1O:64:ARG:NH2	2.29	0.47
11:1P:63:PRO:HB2	30:18:30:ARG:NH2	2.30	0.47
15:1T:39:ARG:HH12	15:1T:41:ARG:HB3	1.79	0.47
20:1Y:44:ILE:CD1	20:1Y:64:GLU:HG2	2.45	0.47
24:12:69:ARG:O	24:12:70:GLN:HG3	2.14	0.47
25:13:21:ALA:O	25:13:24:LYS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:35:VAL:HG23	26:14:39:CYS:SG	2.54	0.47
32:1a:97:C:P	51:1t:17:ARG:HH21	2.37	0.47
32:1a:536:U:O2'	32:1a:537:A:H5'	2.13	0.47
32:1a:1055:G:H2'	32:1a:1056:U:C6	2.48	0.47
34:1c:9:GLY:HA2	34:1c:12:LEU:CD1	2.44	0.47
34:1c:109:PRO:O	34:1c:112:SER:N	2.41	0.47
35:1d:173:TRP:CG	35:1d:189:PRO:HG3	2.50	0.47
40:1i:5:TYR:OH	40:1i:16:ARG:HG2	2.15	0.47
41:1j:5:ARG:O	41:1j:98:ILE:HA	2.15	0.47
44:1m:67:GLU:O	44:1m:71:ARG:HD2	2.14	0.47
45:1n:27:CYS:SG	45:1n:29:ARG:N	2.85	0.47
49:1r:31:LEU:O	49:1r:69:THR:OG1	2.25	0.47
1:2A:289:G:H2'	1:2A:290:G:H8	1.79	0.47
1:2A:806:G:H4'	1:2A:1806:G:OP1	2.14	0.47
1:2A:2118:C:O2'	1:2A:2119:U:H5'	2.14	0.47
1:2A:2333:A:OP2	59:2A:3901:HOH:O	2.20	0.47
2:2B:75:G:H21	21:2Z:85:HIS:CE1	2.31	0.47
2:2B:103:G:O2'	2:2B:104:U:H5'	2.13	0.47
2:2B:103:G:H2'	2:2B:104:U:H5'	1.96	0.47
3:2D:108:PRO:HG2	3:2D:111:LEU:HG	1.96	0.47
6:2G:70:VAL:HA	6:2G:90:LEU:HA	1.96	0.47
7:2H:9:ILE:N	7:2H:50:VAL:O	2.31	0.47
7:2H:77:LYS:HD2	7:2H:81:GLU:HB2	1.97	0.47
9:2N:42:TRP:CH2	9:2N:44:PRO:HB3	2.49	0.47
14:2S:71:ARG:O	14:2S:74:ALA:HB3	2.14	0.47
19:2X:88:LYS:CG	19:2X:93:GLU:HG3	2.44	0.47
27:25:31:VAL:HB	27:25:32:PRO:HD2	1.96	0.47
31:29:25:VAL:HG21	31:29:34:GLN:OE1	2.14	0.47
31:29:29:ASN:HB3	31:29:32:HIS:CG	2.49	0.47
32:2a:94:C:N4	59:2a:1951:HOH:O	2.48	0.47
32:2a:821:G:O2'	32:2a:822:G:H5'	2.15	0.47
32:2a:995:A:H2'	32:2a:996:G:O4'	2.15	0.47
32:2a:1199:C:H2'	32:2a:1200:C:C6	2.50	0.47
32:2a:1470:A:H5"	43:2l:47:LYS:HG3	1.96	0.47
37:2f:100:ASN:HB2	49:2r:27:GLY:O	2.14	0.47
44:2m:40:ASN:HB3	44:2m:43:THR:CG2	2.44	0.47
1:1A:516:A:H2'	1:1A:517:G:H5'	1.95	0.47
1:1A:582:C:C4'	16:1U:52:ARG:NH1	2.73	0.47
1:1A:1097:C:H3'	1:1A:1098:C:C5'	2.33	0.47
1:1A:1544:C:O2'	1:1A:1545:G:H5'	2.15	0.47
1:1A:1708:C:O2'	1:1A:2698:U:OP1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2567:C:O2	59:1A:4364:HOH:O	2.20	0.47
1:1A:2758:U:H4'	7:1H:138:LYS:HG2	1.96	0.47
2:1B:4:C:H42	2:1B:117:G:H1	1.63	0.47
3:1D:76:PRO:HB2	3:1D:116:GLN:NE2	2.27	0.47
6:1G:74:LYS:O	6:1G:75:LYS:HB3	2.14	0.47
7:1H:117:PRO:HG3	7:1H:123:PHE:CE2	2.49	0.47
7:1H:143:GLN:O	7:1H:146:ALA:N	2.48	0.47
12:1Q:43:THR:HA	12:1Q:94:VAL:HA	1.95	0.47
13:1R:103:ARG:HA	59:1R:305:HOH:O	2.14	0.47
18:1W:14:PRO:O	18:1W:16:LYS:N	2.48	0.47
20:1Y:37:VAL:O	20:1Y:66:PRO:HA	2.14	0.47
20:1Y:37:VAL:HG21	20:1Y:72:VAL:HG21	1.97	0.47
31:19:11:CYS:SG	31:19:13:LYS:HB2	2.55	0.47
32:1a:68:C:O2'	32:1a:69:G:H5'	2.14	0.47
32:1a:73:C:N3	32:1a:91:G:N2	2.52	0.47
32:1a:1299:C:N1	45:1n:16:PHE:HE2	2.13	0.47
32:1a:1459:U:O2'	32:1a:1460:G:H5'	2.14	0.47
32:1a:1489:G:H1	32:1a:1502:C:H42	1.61	0.47
33:1b:92:TYR:CD1	33:1b:151:GLY:CA	2.94	0.47
34:1c:28:GLN:O	34:1c:32:LEU:HG	2.13	0.47
37:1f:9:VAL:C	37:1f:10:LEU:HD12	2.40	0.47
37:1f:23:LYS:HG2	37:1f:61:LEU:HD21	1.95	0.47
44:1m:36:LYS:HG3	44:1m:59:TYR:OH	2.13	0.47
51:1t:41:ILE:O	51:1t:44:ALA:HB3	2.14	0.47
51:1t:87:LYS:O	51:1t:91:LEU:HG	2.15	0.47
1:2A:230:G:C8	30:28:3:LYS:HD2	2.49	0.47
1:2A:774:G:H4'	3:2D:13:ARG:HE	1.78	0.47
1:2A:945:A:H2'	1:2A:946:A:C8	2.50	0.47
1:2A:1049:C:O2'	1:2A:1050:C:OP2	2.28	0.47
1:2A:1309:G:O6	59:2A:3884:HOH:O	2.19	0.47
1:2A:1695:G:N2	13:2R:107:ASP:O	2.47	0.47
1:2A:1875:G:O2'	1:2A:1876:G:H5'	2.14	0.47
1:2A:2169:G:H2'	1:2A:2170:G:O4'	2.14	0.47
5:2F:57:VAL:HG21	5:2F:87:GLY:N	2.29	0.47
5:2F:96:ASP:OD1	5:2F:98:SER:OG	2.32	0.47
6:2G:61:ALA:HB2	6:2G:67:LYS:HA	1.96	0.47
7:2H:23:ARG:HA	7:2H:35:VAL:O	2.14	0.47
7:2H:163:TYR:CD2	7:2H:169:VAL:HG22	2.50	0.47
12:2Q:137:TYR:OH	21:2Z:45:ASP:OD1	2.24	0.47
13:2R:33:ARG:NE	13:2R:115:GLU:OE1	2.43	0.47
13:2R:48:VAL:O	13:2R:51:LEU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2V:37:VAL:HB	17:2V:52:VAL:HG22	1.97	0.47
18:2W:25:ARG:HA	18:2W:71:VAL:CG1	2.44	0.47
29:27:13:ALA:HB2	29:27:46:VAL:HG11	1.95	0.47
32:2a:170:C:H5"	51:2t:25:ARG:NH2	2.29	0.47
32:2a:233:C:H5"	48:2q:25:ARG:NH1	2.30	0.47
32:2a:597:C:C2'	32:2a:598:A:H5'	2.44	0.47
32:2a:713:A:H2'	32:2a:714:G:H8	1.79	0.47
32:2a:956:A:OP1	32:2a:1343:G:N2	2.45	0.47
32:2a:1024:A:H2'	32:2a:1025:G:H5'	1.96	0.47
32:2a:1111:C:C1'	32:2a:1130:C:H42	2.25	0.47
32:2a:1181:U:H4'	41:2j:54:PHE:CD2	2.49	0.47
32:2a:1218:A:P	52:2u:3:LYS:HG3	2.54	0.47
32:2a:1307:C:H2'	32:2a:1308:C:C5'	2.43	0.47
32:2a:1509:A:H8	32:2a:1509:A:O5'	1.97	0.47
33:2b:30:ARG:HG3	33:2b:31:TYR:CD1	2.49	0.47
34:2c:131:ARG:HD3	34:2c:166:GLU:OE1	2.14	0.47
37:2f:19:LEU:HD23	37:2f:23:LYS:HD2	1.96	0.47
38:2g:26:PHE:CZ	38:2g:30:ILE:HD11	2.50	0.47
39:2h:3:THR:O	39:2h:5:PRO:HD3	2.15	0.47
1:1A:67:C:O2	1:1A:71:A:O2'	2.22	0.47
1:1A:1276:G:H2'	1:1A:1277:G:H8	1.80	0.47
1:1A:1540:A:H2'	1:1A:1541:A:H8	1.79	0.47
1:1A:1758:C:H2'	1:1A:1759:U:O4'	2.15	0.47
1:1A:1863:U:O2'	1:1A:1864:U:H5'	2.15	0.47
1:1A:2004:C:H4'	1:1A:2617:C:O3'	2.15	0.47
1:1A:2402:G:O2'	1:1A:2433:A:N7	2.47	0.47
1:1A:2746:A:H2'	1:1A:2747:G:H5'	1.96	0.47
3:1D:6:PHE:N	3:1D:6:PHE:CD1	2.81	0.47
3:1D:21:PHE:O	3:1D:22:SER:C	2.58	0.47
4:1E:33:VAL:HG22	4:1E:89:ASP:O	2.13	0.47
4:1E:116:VAL:HG22	4:1E:122:PHE:CD2	2.49	0.47
5:1F:16:GLY:O	5:1F:18:ARG:N	2.47	0.47
6:1G:3:LEU:HD13	26:14:25:TYR:CD2	2.50	0.47
7:1H:69:ARG:HD3	7:1H:69:ARG:C	2.39	0.47
9:1N:51:PHE:CE1	9:1N:119:ARG:CD	2.98	0.47
13:1R:67:LEU:HD11	13:1R:71:GLN:O	2.14	0.47
15:1T:119:LYS:C	15:1T:121:ILE:H	2.22	0.47
16:1U:61:TRP:CH2	16:1U:93:LYS:HB2	2.49	0.47
20:1Y:9:LYS:HA	20:1Y:10:GLY:HA2	1.49	0.47
21:1Z:118:GLN:O	21:1Z:120:ILE:N	2.45	0.47
22:10:35:ASN:HB3	59:10:205:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:13:3:ARG:NH1	25:13:60:GLU:OE2	2.47	0.47
32:1a:37:C:H2'	32:1a:38:U:H5'	1.95	0.47
32:1a:194:G:C2'	32:1a:195:U:H5'	2.45	0.47
32:1a:553:C:N4	32:1a:859:G:H1	2.12	0.47
32:1a:812:A:H2'	32:1a:813:G:O5'	2.14	0.47
32:1a:908:C:N3	32:1a:1370:G:N2	2.62	0.47
32:1a:983:A:H8	32:1a:984:A:O4'	1.98	0.47
32:1a:1116:G:N1	32:1a:1124:C:O2	2.47	0.47
32:1a:1138:G:C2'	32:1a:1139:G:H5'	2.44	0.47
33:1b:170:GLU:HB3	33:1b:173:ALA:HB3	1.95	0.47
34:1c:19:GLU:OE2	34:1c:54:ARG:HG3	2.15	0.47
38:1g:27:ILE:HA	38:1g:30:ILE:HD12	1.96	0.47
38:1g:71:PRO:HA	38:1g:138:LYS:NZ	2.30	0.47
40:1i:65:VAL:HG22	40:1i:73:GLN:HG2	1.95	0.47
44:1m:4:ILE:CD1	44:1m:9:ILE:H	2.23	0.47
52:1u:9:ARG:O	52:1u:13:ILE:HG13	2.14	0.47
1:2A:733:C:H2'	1:2A:734:U:H5'	1.96	0.47
1:2A:1353:A:H62	1:2A:1651:G:H21	1.61	0.47
1:2A:1610:C:O2'	1:2A:1611:C:H5'	2.14	0.47
1:2A:1765:G:OP2	1:2A:1765:G:N2	2.39	0.47
1:2A:2234:G:H2'	1:2A:2235:G:C5'	2.42	0.47
1:2A:2538:C:N4	59:2A:3749:HOH:O	2.47	0.47
1:2A:2542:A:N6	1:2A:2673:A:H61	2.05	0.47
1:2A:2601:A:H5"	3:2D:239:ARG:HG3	1.97	0.47
1:2A:2632:A:H2'	1:2A:2633:C:H5'	1.97	0.47
2:2B:79:C:H2'	2:2B:80:U:H5'	1.96	0.47
13:2R:14:SER:C	13:2R:16:HIS:H	2.23	0.47
13:2R:87:TYR:OH	13:2R:117:VAL:O	2.26	0.47
17:2V:77:ALA:O	17:2V:79:VAL:HG23	2.14	0.47
18:2W:29:LEU:HD21	18:2W:33:ARG:NH2	2.29	0.47
20:2Y:51:VAL:HG12	20:2Y:51:VAL:O	2.14	0.47
25:23:22:ALA:O	25:23:26:LEU:HG	2.15	0.47
27:25:40:LYS:HB2	27:25:41:PRO:HD2	1.97	0.47
31:29:29:ASN:OD1	31:29:30:PRO:HD2	2.14	0.47
32:2a:77:G:C2'	32:2a:78:G:H5'	2.44	0.47
32:2a:104:C:C2'	32:2a:105:G:H5'	2.45	0.47
32:2a:1172:G:OP1	34:2c:5:ILE:HB	2.14	0.47
32:2a:1250:A:O2'	32:2a:1251:A:H5'	2.14	0.47
32:2a:1262:A:H8	41:2j:40:LEU:HD22	1.78	0.47
32:2a:1456:C:O2'	32:2a:1457:C:H5'	2.14	0.47
32:2a:1495:G:N7	32:2a:1496:MA6:H103	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:8:ILE:HD11	34:2c:184:TYR:CB	2.45	0.47
37:2f:74:ASP:O	37:2f:77:ARG:HB3	2.14	0.47
42:2k:67:ASP:HA	42:2k:70:LYS:HB2	1.97	0.47
42:2k:110:ASP:N	49:2r:85:LEU:O	2.43	0.47
43:2l:32:PHE:N	43:2l:32:PHE:CD1	2.83	0.47
44:2m:16:ASP:O	44:2m:19:LEU:HB3	2.15	0.47
44:2m:84:ILE:HD11	44:2m:86:CYS:SG	2.54	0.47
44:2m:107:ALA:HB3	44:2m:111:LYS:HE3	1.97	0.47
48:2q:53:LEU:CD2	48:2q:82:MET:HE1	2.45	0.47
1:1A:115:A:H3'	1:1A:116:A:H5"	1.95	0.47
1:1A:118:G:O2'	1:1A:119:G:H5'	2.14	0.47
1:1A:315:C:O2'	1:1A:316:U:H5'	2.15	0.47
1:1A:318:G:OP1	20:1Y:1:MET:HB2	2.14	0.47
1:1A:325:C:C2'	1:1A:326:U:H5'	2.45	0.47
1:1A:398:G:O2'	1:1A:399:U:P	2.73	0.47
1:1A:432:G:H5"	1:1A:433:G:OP2	2.14	0.47
1:1A:556:A:N3	1:1A:556:A:H2'	2.30	0.47
1:1A:557:G:OP2	59:1A:4367:HOH:O	2.21	0.47
1:1A:580:G:OP1	9:1N:111:PRO:HD2	2.15	0.47
1:1A:582:C:C4'	16:1U:52:ARG:HH12	2.22	0.47
1:1A:790:G:C2'	1:1A:791:G:H5'	2.44	0.47
1:1A:819:U:H2'	1:1A:820:A:H5'	1.97	0.47
1:1A:948:C:O2'	1:1A:949:C:H5'	2.14	0.47
1:1A:1123:U:H4'	1:1A:1124:C:OP1	2.14	0.47
1:1A:1222:C:H6	1:1A:1222:C:O5'	1.97	0.47
1:1A:1269:C:N4	59:1A:4318:HOH:O	2.31	0.47
1:1A:1308:U:H5"	27:15:16:ARG:HD3	1.96	0.47
1:1A:1341:G:H2'	1:1A:1342:C:H5'	1.96	0.47
1:1A:1461:G:O2'	1:1A:1462:C:OP2	2.31	0.47
1:1A:1528:G:N2	1:1A:1552:A:H1'	2.29	0.47
1:1A:1682:C:O2	1:1A:1790:A:H2	1.98	0.47
1:1A:1776:G:O2'	1:1A:1777:G:H5'	2.15	0.47
1:1A:1976:U:O2'	1:1A:1977:U:H5'	2.15	0.47
1:1A:2074:G:OP1	4:1E:144:ARG:HG3	2.14	0.47
1:1A:2322:A:N3	6:1G:82:LEU:HD12	2.30	0.47
1:1A:2333:A:C2'	1:1A:2334:G:H5'	2.45	0.47
1:1A:2366:C:O4'	22:10:36:ILE:HD12	2.14	0.47
1:1A:2765:A:N3	31:19:15:LYS:NZ	2.61	0.47
1:1A:2840:G:P	4:1E:58:ARG:HE	2.37	0.47
2:1B:48:A:H2'	2:1B:49:C:C6	2.50	0.47
3:1D:72:LYS:HD3	3:1D:97:TYR:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1D:92:ILE:HA	3:1D:105:ILE:O	2.14	0.47
3:1D:108:PRO:HA	3:1D:195:ALA:O	2.14	0.47
3:1D:260:ARG:NH2	3:1D:270:ILE:HD12	2.30	0.47
6:1G:3:LEU:HD13	26:14:25:TYR:HE2	1.78	0.47
6:1G:111:LEU:HD12	6:1G:117:PHE:CZ	2.49	0.47
7:1H:70:THR:HG22	7:1H:74:ASN:HD21	1.80	0.47
7:1H:159:GLU:CG	7:1H:169:VAL:HG11	2.44	0.47
8:1I:65:ALA:O	8:1I:68:LEU:N	2.47	0.47
8:1I:92:VAL:HG13	8:1I:92:VAL:O	2.14	0.47
9:1N:12:ARG:HG3	9:1N:50:ASP:OD1	2.15	0.47
9:1N:14:VAL:CG1	9:1N:138:LEU:HD12	2.39	0.47
10:1O:12:ASP:CG	10:1O:14:THR:HG23	2.40	0.47
12:1Q:109:VAL:HG22	12:1Q:113:GLN:HB2	1.96	0.47
13:1R:111:LEU:HB2	59:1R:305:HOH:O	2.13	0.47
14:1S:9:ARG:O	14:1S:12:PHE:N	2.47	0.47
14:1S:40:ILE:HG22	14:1S:41:ASP:N	2.30	0.47
16:1U:90:VAL:HB	16:1U:95:LEU:HD11	1.96	0.47
17:1V:66:ARG:N	17:1V:91:TYR:CE1	2.83	0.47
18:1W:79:GLY:HA3	18:1W:102:HIS:CE1	2.50	0.47
20:1Y:20:TYR:N	20:1Y:20:TYR:CD1	2.83	0.47
23:11:15:ALA:O	23:11:40:ARG:HG2	2.15	0.47
24:12:68:ARG:O	24:12:70:GLN:N	2.42	0.47
26:14:14:ILE:O	26:14:15:ILE:HD13	2.14	0.47
28:16:34:LEU:HB2	28:16:51:GLU:HB2	1.97	0.47
32:1a:109:G:H1'	32:1a:110:A:OP2	2.14	0.47
32:1a:269:A:C2'	32:1a:270:A:H5'	2.45	0.47
32:1a:367:G:H1	32:1a:386:C:H42	1.62	0.47
32:1a:493:A:O2'	32:1a:494:A:P	2.73	0.47
32:1a:495:C:O2'	32:1a:496:U:OP2	2.22	0.47
32:1a:628:G:C2'	32:1a:629:C:H5'	2.44	0.47
32:1a:879:A:C5	32:1a:880:G:H1'	2.50	0.47
32:1a:927:A:H1'	32:1a:1347:U:N3	2.30	0.47
32:1a:930:U:H5'	32:1a:950:C:H41	1.79	0.47
32:1a:941:G:N2	32:1a:942:A:H1'	2.30	0.47
32:1a:1052:C:H42	32:1a:1089:G:H1	1.61	0.47
32:1a:1180:G:H2'	32:1a:1181:U:C6	2.50	0.47
32:1a:1257:A:O2'	32:1a:1258:G:H5'	2.14	0.47
32:1a:1299:C:C6	45:1n:16:PHE:HD2	2.33	0.47
32:1a:1352:C:OP2	40:1i:111:ARG:HG2	2.14	0.47
32:1a:1422:C:H42	32:1a:1440:G:H1	1.62	0.47
33:1b:21:ARG:HG2	33:1b:39:ILE:CD1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:84:GLU:OE1	33:1b:87:ARG:HD3	2.13	0.47
33:1b:111:ARG:HH21	33:1b:114:ARG:CG	2.28	0.47
33:1b:118:LEU:CD2	33:1b:138:LEU:HD22	2.45	0.47
33:1b:208:ILE:O	33:1b:212:GLN:N	2.37	0.47
34:1c:136:GLN:HB3	34:1c:140:ARG:NH1	2.29	0.47
35:1d:36:ARG:HD2	35:1d:38:TYR:OH	2.15	0.47
36:1e:7:GLU:O	36:1e:34:VAL:HA	2.15	0.47
36:1e:12:LEU:HD23	36:1e:13:ILE:N	2.29	0.47
36:1e:26:PHE:O	36:1e:27:ARG:HB2	2.15	0.47
38:1g:92:SER:O	38:1g:96:GLN:HG3	2.14	0.47
39:1h:44:PHE:HB3	39:1h:80:ILE:HD11	1.97	0.47
40:1i:48:GLU:N	40:1i:49:PRO:CD	2.78	0.47
41:1j:61:GLU:OE2	45:1n:49:HIS:CE1	2.68	0.47
44:1m:4:ILE:HD12	44:1m:4:ILE:N	2.29	0.47
44:1m:15:VAL:HA	44:1m:45:VAL:CG2	2.45	0.47
44:1m:24:GLY:HA3	44:1m:70:LEU:CD1	2.44	0.47
46:1o:55:GLY:HA2	46:1o:58:MET:HE3	1.95	0.47
48:1q:5:VAL:C	48:1q:6:LEU:HD12	2.39	0.47
48:1q:52:LYS:HG2	48:1q:53:LEU:H	1.78	0.47
50:1s:15:LEU:HD13	50:1s:33:THR:OG1	2.15	0.47
1:2A:28:U:H3	1:2A:535:U:H3	1.62	0.47
1:2A:77:G:O2'	1:2A:78:G:H5'	2.15	0.47
1:2A:83:G:OP1	20:2Y:30:VAL:HG21	2.15	0.47
1:2A:561:C:H4'	9:2N:5:VAL:HG11	1.96	0.47
1:2A:719:C:H2'	1:2A:720:G:H5'	1.97	0.47
1:2A:721:A:O2'	5:2F:67:GLN:HG2	2.15	0.47
1:2A:821:G:H4'	1:2A:822:G:O5'	2.15	0.47
1:2A:967:U:O4	59:2A:3862:HOH:O	2.20	0.47
1:2A:982:G:OP1	30:28:52:LYS:HD2	2.15	0.47
1:2A:1004:A:H61	12:2Q:83:MET:HE3	1.79	0.47
1:2A:1167:G:C2'	1:2A:1168:C:H5'	2.45	0.47
1:2A:1184:C:P	9:2N:66:LYS:HZ3	2.34	0.47
1:2A:1401:G:O2'	1:2A:1402:U:H5'	2.14	0.47
1:2A:1402:U:O2'	1:2A:1403:G:H5'	2.14	0.47
1:2A:1427:G:H4'	1:2A:1619:G:C2	2.50	0.47
1:2A:1604:A:O4'	1:2A:1605:G:H5"	2.15	0.47
1:2A:1613:A:C5	3:2D:84:TYR:HE2	2.32	0.47
1:2A:1733:G:N2	1:2A:1747:A:H62	2.13	0.47
1:2A:1820:C:H5"	1:2A:1821:A:OP1	2.15	0.47
1:2A:1991:A:H5'	59:2A:3791:HOH:O	2.14	0.47
1:2A:2068:U:H2'	1:2A:2069:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2154:G:O2'	1:2A:2179:A:C6	2.68	0.47
1:2A:2263:G:H2'	1:2A:2264:G:O4'	2.15	0.47
1:2A:2291:G:O6	22:20:14:ARG:HD2	2.15	0.47
1:2A:2301:G:O2'	1:2A:2392:C:H1'	2.15	0.47
1:2A:2653:G:C5'	9:2N:78:TYR:CD2	2.96	0.47
1:2A:2708:G:H2'	1:2A:2709:U:O4'	2.15	0.47
2:2B:2:C:H42	2:2B:119:G:H22	1.63	0.47
5:2F:197:ASP:O	5:2F:201:VAL:HG22	2.14	0.47
6:2G:63:ILE:HG23	6:2G:141:PHE:CD2	2.50	0.47
7:2H:27:LYS:HA	7:2H:32:GLU:HA	1.95	0.47
7:2H:87:LEU:CD2	7:2H:164:TYR:HD1	2.27	0.47
10:2O:80:ASP:OD2	15:2T:71:GLY:HA3	2.14	0.47
21:2Z:8:TYR:N	21:2Z:8:TYR:CD1	2.81	0.47
22:20:47:PRO:HB2	22:20:51:VAL:O	2.15	0.47
23:21:5:CYS:CB	23:21:8:SER:HG	2.27	0.47
24:22:51:ARG:HD3	24:22:55:ARG:NH1	2.30	0.47
26:24:46:GLN:NE2	26:24:48:ARG:HH22	2.12	0.47
30:28:14:VAL:HG21	30:28:22:VAL:CG1	2.44	0.47
32:2a:75:C:H42	32:2a:89:G:H1	1.63	0.47
32:2a:254:G:H2'	32:2a:255:G:H8	1.78	0.47
32:2a:274:G:O6	48:2q:92:ARG:HD2	2.14	0.47
32:2a:323:A:O2'	32:2a:325:A:H5'	2.15	0.47
32:2a:395:G:H2'	32:2a:396:C:H6	1.76	0.47
32:2a:398:G:C2'	32:2a:399:C:H5'	2.44	0.47
32:2a:489:G:H2'	32:2a:490:G:H8	1.78	0.47
32:2a:554:G:O2'	32:2a:803:A:H2'	2.15	0.47
32:2a:759:G:H2'	32:2a:760:G:O4'	2.15	0.47
32:2a:878:A:O2'	32:2a:879:A:H5'	2.13	0.47
32:2a:903:G:H1'	32:2a:1480:A:C4	2.50	0.47
32:2a:1008:C:C2	32:2a:1015:G:N1	2.81	0.47
32:2a:1134:A:O2'	32:2a:1135:A:H8	1.97	0.47
32:2a:1237:G:P	41:2j:45:ARG:HH22	2.36	0.47
32:2a:1308:C:OP1	52:2u:17:THR:OG1	2.30	0.47
32:2a:1355:U:C5'	40:2i:71:SER:HB3	2.40	0.47
32:2a:1447:G:H2'	32:2a:1448:G:C8	2.48	0.47
33:2b:36:ARG:O	33:2b:39:ILE:HB	2.15	0.47
33:2b:101:MET:HG3	33:2b:152:PHE:CE1	2.50	0.47
34:2c:13:GLY:C	34:2c:14:ILE:HD12	2.40	0.47
34:2c:113:ALA:N	34:2c:202:ILE:HD12	2.29	0.47
34:2c:183:ASP:CG	34:2c:184:TYR:H	2.23	0.47
37:2f:21:LEU:HG	37:2f:25:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:31:PHE:CZ	39:2h:35:ILE:HD11	2.49	0.47
40:2i:18:PHE:HB2	40:2i:62:TYR:O	2.14	0.47
41:2j:38:ILE:HD13	41:2j:71:LEU:HD22	1.97	0.47
41:2j:74:ILE:O	41:2j:74:ILE:HG23	2.14	0.47
42:2k:122:LYS:O	42:2k:126:ARG:HG3	2.15	0.47
43:2l:83:VAL:HG21	43:2l:100:ILE:CG2	2.34	0.47
44:2m:32:GLU:O	44:2m:35:GLU:HG2	2.14	0.47
46:2o:6:GLU:H	46:2o:6:GLU:CD	2.23	0.47
46:2o:18:PHE:CE1	46:2o:21:ASP:HB2	2.49	0.47
49:2r:47:THR:HG21	49:2r:49:LYS:CE	2.45	0.47
50:2s:50:ALA:CB	50:2s:57:HIS:HB3	2.43	0.47
52:2u:18:TYR:HB3	52:2u:22:ARG:O	2.15	0.47
1:1A:878:G:H4'	11:1P:45:LEU:HD22	1.97	0.47
1:1A:951:G:H5"	12:1Q:26:TYR:OH	2.14	0.47
1:1A:1725:U:C2'	1:1A:1726:U:H5'	2.42	0.47
1:1A:1813:A:O5'	59:1A:4366:HOH:O	2.20	0.47
1:1A:2305:C:OP2	14:1S:13:ARG:NH1	2.42	0.47
1:1A:2430:U:O2'	28:16:54:ILE:HD11	2.15	0.47
1:1A:2458:G:N2	59:1A:4222:HOH:O	2.47	0.47
1:1A:2551:C:O2'	1:1A:2552:A:H5'	2.15	0.47
1:1A:2703:C:H1'	1:1A:2856:U:H1'	1.97	0.47
3:1D:181:GLU:OE2	3:1D:270:ILE:HG23	2.14	0.47
5:1F:93:LYS:HB3	5:1F:94:PRO:HD2	1.96	0.47
6:1G:80:PHE:O	6:1G:81:LYS:HB2	2.15	0.47
6:1G:161:THR:HG22	6:1G:162:THR:N	2.29	0.47
9:1N:5:VAL:O	9:1N:5:VAL:HG23	2.15	0.47
9:1N:29:LYS:HD3	9:1N:140:VAL:HB	1.97	0.47
9:1N:47:ALA:HB1	9:1N:119:ARG:CZ	2.44	0.47
10:1O:4:PRO:O	10:1O:5:GLN:CB	2.63	0.47
11:1P:130:PHE:HE2	11:1P:145:PRO:CB	2.26	0.47
29:17:22:MET:HA	29:17:28:ARG:HG2	1.97	0.47
32:1a:21:U:H2'	32:1a:22:G:C5'	2.45	0.47
32:1a:523:A:O2'	32:1a:524:G:H5'	2.14	0.47
32:1a:659:A:H1'	42:1k:116:HIS:NE2	2.29	0.47
32:1a:887:A:C2'	32:1a:888:C:H5'	2.45	0.47
32:1a:1036:G:O5'	32:1a:1037:C:H3'	2.15	0.47
32:1a:1303:C:O5'	32:1a:1304:C:H2'	2.14	0.47
33:1b:70:PHE:CE2	33:1b:85:ALA:HA	2.50	0.47
33:1b:92:TYR:HD1	33:1b:151:GLY:HA3	1.73	0.47
33:1b:155:LEU:HD21	33:1b:159:PRO:CD	2.44	0.47
35:1d:119:GLN:O	35:1d:123:HIS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1e:94:ALA:HB3	36:1e:117:ASP:C	2.40	0.47
37:1f:60:PHE:CE2	49:1r:78:LEU:HD21	2.50	0.47
44:1m:5:ALA:CB	44:1m:61:GLU:HG2	2.45	0.47
46:1o:48:LYS:O	46:1o:50:HIS:N	2.48	0.47
49:1r:25:THR:C	49:1r:26:LEU:HD12	2.39	0.47
51:1t:57:ARG:HH22	51:1t:100:ILE:HD12	1.80	0.47
1:2A:17:C:O2	1:2A:576:U:H4'	2.14	0.47
1:2A:115:A:H3'	1:2A:116:A:H5"	1.96	0.47
1:2A:471:G:P	16:2U:3:ARG:HH11	2.38	0.47
1:2A:559:C:O2'	1:2A:560:A:H5'	2.15	0.47
1:2A:750:G:H1'	1:2A:772:G:N2	2.29	0.47
1:2A:757:G:H2'	1:2A:758:G:H5'	1.96	0.47
1:2A:820:A:H2'	1:2A:820:A:N3	2.30	0.47
1:2A:823:A:O2'	1:2A:824:G:H5'	2.15	0.47
1:2A:1040:C:O4'	16:2U:57:PHE:HD2	1.98	0.47
1:2A:1041:A:O4'	17:2V:10:LYS:HG2	2.15	0.47
1:2A:1468:G:O2'	1:2A:1544:C:H1'	2.14	0.47
1:2A:1613:A:H3'	3:2D:86:PRO:HG3	1.96	0.47
1:2A:1689:G:N2	1:2A:1690:C:H1'	2.30	0.47
1:2A:1784:C:N3	1:2A:2728:U:O2'	2.48	0.47
1:2A:1821:A:C5'	3:2D:206:LEU:HD12	2.31	0.47
1:2A:2033:G:O3'	18:2W:96:ILE:HG23	2.15	0.47
1:2A:2244:U:H2'	1:2A:2245:G:C8	2.50	0.47
1:2A:2316:A:H8	6:2G:156:ASP:OD1	1.97	0.47
1:2A:2324:C:H2'	1:2A:2325:C:H6	1.78	0.47
2:2B:105:A:H4'	21:2Z:29:TYR:CE2	2.48	0.47
3:2D:186:HIS:CE1	3:2D:188:GLU:HG2	2.49	0.47
6:2G:16:ARG:HH12	6:2G:31:VAL:CG2	2.26	0.47
8:2I:14:ASP:OD1	8:2I:15:VAL:HG12	2.14	0.47
12:2Q:14:ARG:O	12:2Q:72:LYS:NZ	2.47	0.47
12:2Q:55:VAL:CG1	21:2Z:178:GLU:HB3	2.44	0.47
12:2Q:57:HIS:CD2	12:2Q:117:ALA:HB2	2.49	0.47
13:2R:74:LYS:HG2	13:2R:77:ARG:HH12	1.79	0.47
16:2U:8:VAL:HG11	16:2U:12:ARG:NE	2.30	0.47
16:2U:57:PHE:O	16:2U:60:LEU:N	2.48	0.47
17:2V:37:VAL:HB	17:2V:52:VAL:CG2	2.44	0.47
18:2W:4:LYS:CB	18:2W:106:ILE:HG12	2.45	0.47
26:24:69:LYS:HG2	26:24:69:LYS:O	2.14	0.47
32:2a:426:A:H2'	32:2a:427:A:C5'	2.44	0.47
32:2a:558:A:H1'	32:2a:861:C:C1'	2.45	0.47
32:2a:699:A:H5"	32:2a:789:C:H1'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1005:G:H2'	32:2a:1005:G:N3	2.30	0.47
32:2a:1097:C:O2	45:2n:61:TRP:HA	2.13	0.47
32:2a:1286:G:C1'	32:2a:1315:A:H61	2.24	0.47
32:2a:1418:G:H2'	32:2a:1419:U:C6	2.49	0.47
34:2c:125:GLU:CD	34:2c:190:ARG:H	2.19	0.47
34:2c:175:LEU:C	34:2c:177:THR:H	2.23	0.47
37:2f:30:LEU:HB3	37:2f:35:ALA:HB3	1.97	0.47
37:2f:72:VAL:HG23	37:2f:73:ASN:N	2.30	0.47
39:2h:17:THR:O	39:2h:20:TYR:N	2.44	0.47
39:2h:100:ILE:HD11	39:2h:129:VAL:O	2.15	0.47
42:2k:58:PRO:HB2	42:2k:93:GLN:HG2	1.97	0.47
43:2l:75:HIS:ND1	43:2l:77:LEU:HB2	2.30	0.47
49:2r:59:SER:HB3	49:2r:62:GLU:HG2	1.97	0.47
50:2s:3:ARG:CZ	50:2s:10:PHE:HB2	2.45	0.47
1:1A:516:A:H2'	1:1A:517:G:C5'	2.44	0.47
1:1A:774:G:H1'	3:1D:10:THR:HG21	1.97	0.47
1:1A:894:G:H2'	1:1A:895:A:H8	1.73	0.47
1:1A:945:A:C2'	1:1A:946:A:H5'	2.45	0.47
1:1A:956:A:H2'	12:1Q:9:TYR:OH	2.15	0.47
1:1A:1302:C:H4'	5:1F:83:PHE:CE1	2.50	0.47
1:1A:1387:A:O2'	1:1A:1389:G:OP2	2.24	0.47
1:1A:1820:C:O2'	3:1D:209:ALA:HB2	2.15	0.47
1:1A:1867:C:O2	1:1A:1948:A:H2	1.98	0.47
1:1A:2357:A:H5'	1:1A:2394:G:O4'	2.15	0.47
2:1B:7:G:C2'	2:1B:8:U:H5'	2.45	0.47
3:1D:10:THR:OG1	3:1D:13:ARG:HG2	2.15	0.47
3:1D:44:ASN:C	3:1D:46:GLN:H	2.22	0.47
5:1F:126:VAL:CG2	5:1F:129:PHE:CE1	2.97	0.47
6:1G:43:LEU:HB3	6:1G:44:GLY:H	1.63	0.47
6:1G:82:LEU:HD11	6:1G:88:ILE:HG21	1.97	0.47
10:1O:64:ARG:HD2	10:1O:79:PHE:HD2	1.80	0.47
16:1U:79:PHE:HE1	16:1U:83:LEU:CD2	2.27	0.47
18:1W:44:ALA:N	59:1W:3108:HOH:O	2.48	0.47
22:10:44:ARG:O	22:10:45:PHE:HD1	1.98	0.47
24:12:69:ARG:C	24:12:70:GLN:HG3	2.40	0.47
26:14:9:LEU:HD22	26:14:26:SER:HA	1.96	0.47
26:14:67:TYR:N	26:14:67:TYR:CD1	2.83	0.47
32:1a:57:U:O2'	32:1a:58:G:H5'	2.15	0.47
32:1a:60:A:H1'	32:1a:350:G:N2	2.29	0.47
32:1a:407:A:O2'	32:1a:408:A:H5'	2.14	0.47
32:1a:556:A:H4'	32:1a:895:G:H5'	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:824:C:H5”	32:1a:825:U:C5	2.50	0.47
32:1a:870:A:C2’	32:1a:871:C:H5’	2.44	0.47
32:1a:1106:A:C2	41:1j:39:PRO:HD2	2.50	0.47
32:1a:1281:A:O2’	32:1a:1282:G:H4’	2.15	0.47
32:1a:1441:C:O2’	32:1a:1442:G:H5’	2.15	0.47
33:1b:97:TRP:CE2	33:1b:173:ALA:HB2	2.50	0.47
35:1d:8:VAL:HG22	35:1d:21:LEU:HD13	1.96	0.47
35:1d:183:GLY:O	35:1d:184:LYS:HB2	2.13	0.47
35:1d:199:ASN:O	35:1d:202:LEU:HB2	2.15	0.47
39:1h:20:TYR:CD1	39:1h:65:TYR:CD2	3.03	0.47
44:1m:15:VAL:CG2	44:1m:16:ASP:H	2.25	0.47
48:1q:56:VAL:HG23	48:1q:81:ARG:HG3	1.96	0.47
48:1q:70:ARG:C	48:1q:71:PHE:HD1	2.23	0.47
1:2A:188:U:C2’	1:2A:189:C:H5’	2.39	0.47
1:2A:234:C:C2’	1:2A:235:G:H5’	2.45	0.47
1:2A:367:G:HO2’	1:2A:368:A:C5’	2.24	0.47
1:2A:466:U:H2’	1:2A:467:G:H8	1.80	0.47
1:2A:712:G:O2’	1:2A:713:U:H5’	2.14	0.47
1:2A:761:G:O2’	1:2A:762:A:H5’	2.15	0.47
1:2A:934:C:OP1	44:2m:93:ARG:NH1	2.47	0.47
1:2A:1214:G:H1	1:2A:1224:C:N4	2.13	0.47
1:2A:1232:U:H4’	17:2V:79:VAL:HG13	1.97	0.47
1:2A:1407:C:H2’	1:2A:1408:C:H5’	1.97	0.47
1:2A:1545:G:H2’	1:2A:1546:C:H6	1.77	0.47
1:2A:1988:C:H2’	1:2A:1989:G:C5’	2.42	0.47
1:2A:2255:U:O2’	1:2A:2256:U:H5’	2.15	0.47
1:2A:2589:G:H2’	1:2A:2590:C:H6	1.80	0.47
1:2A:2608:G:H2’	1:2A:2609:A:C8	2.49	0.47
3:2D:64:ILE:O	3:2D:104:TYR:HB2	2.14	0.47
3:2D:82:ILE:HG23	3:2D:92:ILE:O	2.15	0.47
3:2D:121:PRO:HB3	3:2D:135:PHE:CE2	2.50	0.47
4:2E:15:PHE:N	4:2E:15:PHE:CD1	2.82	0.47
4:2E:120:TRP:O	4:2E:121:ASN:HB2	2.15	0.47
5:2F:64:ILE:HD12	5:2F:65:TRP:CZ3	2.50	0.47
8:2I:75:LEU:HD23	8:2I:76:THR:N	2.30	0.47
12:2Q:8:LYS:HG2	21:2Z:197:ILE:CD1	2.36	0.47
12:2Q:20:ALA:HA	12:2Q:99:PRO:HD2	1.97	0.47
13:2R:50:HIS:CE1	13:2R:54:LEU:HD11	2.50	0.47
14:2S:94:TYR:CZ	14:2S:99:LYS:HG3	2.50	0.47
15:2T:34:VAL:O	15:2T:40:THR:HA	2.14	0.47
24:22:13:ALA:HA	24:22:16:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:24:61:ARG:HD3	50:2s:42:PRO:CG	2.45	0.47
32:2a:192:G:O2'	32:2a:193:G:H5'	2.15	0.47
32:2a:677:G:H1'	38:2g:82:GLY:CA	2.45	0.47
32:2a:878:A:H8	32:2a:878:A:O5'	1.97	0.47
32:2a:966:G:H2'	32:2a:967:C:C5'	2.44	0.47
32:2a:1106:A:C2	41:2j:39:PRO:HD2	2.50	0.47
32:2a:1332:A:O2'	32:2a:1333:U:H5'	2.14	0.47
32:2a:1337:G:O2'	32:2a:1338:G:H5'	2.15	0.47
32:2a:1444:C:H2'	32:2a:1445:G:H5'	1.97	0.47
33:2b:127:ILE:C	33:2b:129:GLU:H	2.22	0.47
34:2c:15:THR:HG22	34:2c:15:THR:O	2.14	0.47
37:2f:7:ASN:C	37:2f:8:ILE:HG13	2.40	0.47
37:2f:24:GLU:HG3	37:2f:28:ARG:HE	1.80	0.47
37:2f:33:TYR:HD2	37:2f:75:LEU:HD13	1.80	0.47
41:2j:8:LEU:HB3	41:2j:16:LEU:CD2	2.45	0.47
42:2k:66:LEU:O	42:2k:69:ALA:N	2.48	0.47
44:2m:40:ASN:HB3	44:2m:43:THR:HG23	1.97	0.47
1:1A:268:G:H1	1:1A:274:C:H42	1.62	0.47
1:1A:407:G:OP1	23:11:16:ASN:ND2	2.34	0.47
1:1A:494:G:O6	29:17:37:LYS:NZ	2.44	0.47
1:1A:627:C:O2	1:1A:703:U:O2'	2.31	0.47
1:1A:794:G:H2'	1:1A:796:A:N7	2.30	0.47
1:1A:1138:G:C2'	1:1A:1143:A:H61	2.28	0.47
1:1A:1174:A:HO2'	1:1A:2526:C:HO2'	1.62	0.47
1:1A:1192:C:C2'	1:1A:1193:A:H5'	2.44	0.47
1:1A:1498:C:N4	1:1A:1505:G:H1	2.13	0.47
1:1A:1700:A:C2	4:1E:113:PHE:CD2	3.03	0.47
1:1A:1874:C:H5'	3:1D:256:GLY:O	2.14	0.47
1:1A:2249:G:OP2	59:1A:4362:HOH:O	2.20	0.47
1:1A:2389:A:C5	1:1A:2390:G:H1'	2.50	0.47
1:1A:2416:G:C5'	11:1P:75:ILE:HD13	2.44	0.47
1:1A:2700:U:P	1:1A:2731:G:H22	2.33	0.47
1:1A:2738:U:O2'	1:1A:2739:G:H8	1.98	0.47
5:1F:103:LYS:O	5:1F:106:ARG:CG	2.62	0.47
13:1R:12:ARG:O	13:1R:17:ARG:NH1	2.48	0.47
13:1R:33:ARG:HG3	13:1R:115:GLU:CB	2.44	0.47
13:1R:93:GLY:O	13:1R:117:VAL:HG21	2.15	0.47
20:1Y:24:VAL:HG12	20:1Y:25:GLY:N	2.30	0.47
32:1a:94:C:H2'	32:1a:95:A:N9	2.30	0.47
32:1a:254:G:H1	32:1a:264:C:N4	2.09	0.47
32:1a:490:G:H1	32:1a:509:C:H42	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:530:G:OP1	35:1d:73:ARG:HG2	2.14	0.47
32:1a:895:G:H2'	32:1a:896:A:O4'	2.15	0.47
32:1a:985:C:O2'	32:1a:986:C:H5'	2.15	0.47
32:1a:1259:C:HO2'	32:1a:1261:A:H8	1.60	0.47
35:1d:182:LYS:O	35:1d:182:LYS:HG3	2.15	0.47
36:1e:41:VAL:CG1	36:1e:113:ALA:HA	2.45	0.47
40:1i:46:ALA:CB	40:1i:78:LYS:HB2	2.45	0.47
44:1m:54:VAL:HG12	44:1m:57:ARG:HH11	1.79	0.47
44:1m:91:ARG:HB2	44:1m:98:VAL:HG22	1.97	0.47
46:1o:50:HIS:O	46:1o:53:HIS:HB3	2.15	0.47
47:1p:19:ILE:O	47:1p:19:ILE:HG23	2.15	0.47
48:1q:61:GLU:O	48:1q:61:GLU:HG3	2.15	0.47
50:1s:44:MET:O	50:1s:47:HIS:ND1	2.41	0.47
51:1t:54:LYS:HA	51:1t:57:ARG:NH2	2.30	0.47
1:2A:79:G:H1	1:2A:102:C:N4	2.10	0.47
1:2A:279:C:O2'	1:2A:280:G:H5'	2.15	0.47
1:2A:439:C:N4	1:2A:2421:G:H1	2.12	0.47
1:2A:468:A:H5"	1:2A:469:C:OP1	2.15	0.47
1:2A:491:A:H2	1:2A:841:C:O2	1.98	0.47
1:2A:773:A:N3	3:2D:9:TYR:CE2	2.83	0.47
1:2A:886:C:H2'	1:2A:887:A:C8	2.50	0.47
1:2A:1533:G:H2'	1:2A:1534:U:C6	2.50	0.47
1:2A:1860:C:H5'	3:2D:15:PHE:CE2	2.50	0.47
1:2A:1871:U:H2'	1:2A:1872:G:C5'	2.45	0.47
1:2A:1915:C:H2'	1:2A:1916:C:H6	1.80	0.47
1:2A:2122:G:N1	1:2A:2123:U:O2	2.47	0.47
1:2A:2632:A:C2'	1:2A:2633:C:H5'	2.45	0.47
1:2A:2634:G:O2'	1:2A:2635:G:H5'	2.15	0.47
1:2A:2673:A:O2'	1:2A:2674:G:OP1	2.23	0.47
1:2A:2700:U:O2	1:2A:2700:U:H5'	2.14	0.47
2:2B:10:C:O2'	2:2B:11:C:H5'	2.14	0.47
2:2B:98:G:H2'	2:2B:99:G:O4'	2.15	0.47
5:2F:157:VAL:O	5:2F:158:THR:HB	2.14	0.47
6:2G:11:TYR:CD2	6:2G:12:TYR:CD1	3.02	0.47
6:2G:90:LEU:O	6:2G:91:ARG:HB2	2.13	0.47
7:2H:26:VAL:HB	7:2H:33:LEU:O	2.16	0.47
7:2H:27:LYS:HG2	7:2H:32:GLU:CB	2.44	0.47
12:2Q:63:LYS:CD	21:2Z:175:VAL:HG21	2.45	0.47
13:2R:97:VAL:CG2	13:2R:114:VAL:HG22	2.41	0.47
13:2R:117:VAL:HG12	13:2R:118:GLU:N	2.30	0.47
15:2T:23:ARG:N	15:2T:26:ASP:OD2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2V:60:GLU:HG2	17:2V:61:VAL:N	2.30	0.47
20:2Y:56:PRO:C	20:2Y:58:GLY:H	2.23	0.47
27:25:40:LYS:NZ	27:25:44:THR:O	2.41	0.47
27:25:46:CYS:O	27:25:50:GLY:N	2.40	0.47
32:2a:104:C:H2'	32:2a:105:G:H5'	1.96	0.47
32:2a:419:G:C5	32:2a:420:G:H1'	2.50	0.47
32:2a:506:C:H42	32:2a:511:G7M:H1	1.61	0.47
32:2a:642:G:O2'	32:2a:643:U:H5'	2.15	0.47
32:2a:880:G:O2'	32:2a:881:G:H5'	2.15	0.47
32:2a:1462:C:C2'	32:2a:1463:U:H5'	2.44	0.47
34:2c:183:ASP:OD1	34:2c:184:TYR:N	2.45	0.47
35:2d:55:ALA:HA	35:2d:58:LEU:HB3	1.96	0.47
37:2f:33:TYR:CD2	37:2f:75:LEU:HD13	2.50	0.47
41:2j:6:ILE:HB	41:2j:72:VAL:HG23	1.95	0.47
42:2k:27:ASN:OD1	42:2k:28:THR:N	2.39	0.47
44:2m:22:ILE:HB	44:2m:25:ILE:HB	1.97	0.47
45:2n:48:ALA:CB	45:2n:53:LEU:HD12	2.43	0.47
1:1A:164:G:O2'	1:1A:165:G:H5'	2.14	0.46
1:1A:363:A:O2'	5:1F:168:ARG:NH2	2.48	0.46
1:1A:483:G:C8	29:17:37:LYS:HG2	2.51	0.46
1:1A:751:A:N1	1:1A:773:A:H1'	2.30	0.46
1:1A:1300:U:C5	5:1F:73:ALA:HA	2.51	0.46
1:1A:1361:U:H2'	1:1A:1362:A:C8	2.50	0.46
1:1A:1844:G:C4'	3:1D:51:VAL:HG21	2.45	0.46
1:1A:1979:C:C2'	1:1A:1980:G:H5'	2.45	0.46
1:1A:2051:A:H5'	59:1A:4161:HOH:O	2.15	0.46
1:1A:2078:A:OP2	59:1A:3957:HOH:O	2.21	0.46
1:1A:2801:C:O3'	1:1A:2802:A:H4'	2.15	0.46
3:1D:226:MET:HB3	3:1D:230:ASP:HB2	1.96	0.46
5:1F:116:ASP:OD1	5:1F:119:ARG:NH2	2.48	0.46
6:1G:28:VAL:HG23	6:1G:29:TRP:N	2.31	0.46
15:1T:101:PHE:CD2	15:1T:105:LEU:HD11	2.50	0.46
23:11:3:LYS:CB	23:11:61:ARG:HH12	2.28	0.46
26:14:61:ARG:NH1	50:1s:40:ILE:O	2.48	0.46
32:1a:489:G:P	32:1a:519:A:H5'	2.55	0.46
32:1a:560:G:O6	32:1a:858:C:O2'	2.16	0.46
32:1a:691:C:O3'	42:1k:20:TYR:HE2	1.98	0.46
32:1a:835:C:H2'	32:1a:836:G:H8	1.79	0.46
32:1a:1286:G:N2	32:1a:1314:A:N7	2.63	0.46
35:1d:82:ALA:C	35:1d:85:LYS:H	2.23	0.46
38:1g:95:ARG:O	38:1g:98:SER:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:1g:107:ALA:O	38:1g:111:ARG:HG3	2.15	0.46
40:1i:9:ARG:HB2	40:1i:104:ARG:NE	2.19	0.46
40:1i:29:ASN:N	40:1i:63:ILE:O	2.47	0.46
42:1k:18:ARG:HB2	42:1k:33:THR:OG1	2.15	0.46
42:1k:30:VAL:O	42:1k:43:SER:N	2.47	0.46
1:2A:78:G:H2'	1:2A:79:G:O4'	2.15	0.46
1:2A:484:U:OP2	29:27:39:ARG:NH1	2.48	0.46
1:2A:596:C:H1'	1:2A:2076:C:C6	2.50	0.46
1:2A:629:U:OP1	5:2F:102:PRO:HA	2.15	0.46
1:2A:737:C:H1'	3:2D:43:ARG:NH1	2.30	0.46
1:2A:1006:G:O2'	1:2A:1007:U:H5'	2.15	0.46
1:2A:1052:C:H5"	9:2N:35:ARG:HH11	1.77	0.46
1:2A:1148:A:OP2	1:2A:1149:C:H5	1.98	0.46
1:2A:1254:A:C4'	1:2A:1255:U:OP2	2.62	0.46
1:2A:1320:A:O2'	1:2A:1691:G:N2	2.45	0.46
1:2A:1439:U:H6	1:2A:1439:U:H3'	1.79	0.46
1:2A:1602:C:H2'	1:2A:1603:C:C6	2.48	0.46
1:2A:2242:C:OP1	23:21:42:GLN:HA	2.14	0.46
1:2A:2407:G:H5'	23:21:25:LYS:HE3	1.97	0.46
1:2A:2420:G:H8	1:2A:2420:G:O5'	1.98	0.46
1:2A:2628:C:C2'	1:2A:2629:G:H5'	2.46	0.46
1:2A:2690:A:H2'	1:2A:2691:C:H5'	1.97	0.46
1:2A:2732:U:H2'	1:2A:2733:A:C8	2.49	0.46
4:2E:15:PHE:CD2	15:2T:81:PRO:CD	2.93	0.46
5:2F:28:ILE:CD1	5:2F:119:ARG:HE	2.28	0.46
6:2G:141:PHE:CD1	6:2G:141:PHE:N	2.83	0.46
9:2N:38:HIS:NE2	9:2N:50:ASP:OD2	2.48	0.46
10:2O:63:VAL:HG11	10:2O:85:VAL:HG23	1.97	0.46
15:2T:27:THR:HG22	15:2T:89:VAL:HG21	1.96	0.46
15:2T:108:ARG:HA	15:2T:111:ARG:HE	1.81	0.46
18:2W:19:LEU:O	27:25:25:LEU:HD12	2.15	0.46
21:2Z:97:GLU:HG2	21:2Z:125:LEU:CD1	2.41	0.46
32:2a:10:G:OP2	36:2e:121:LYS:HD2	2.15	0.46
32:2a:34:A:O2'	32:2a:359:A:H1'	2.15	0.46
32:2a:132:C:H42	32:2a:222:G:H1	1.63	0.46
32:2a:143:G:H2'	32:2a:144:A:C8	2.41	0.46
32:2a:181:C:H1'	51:2t:85:MET:HE1	1.97	0.46
32:2a:627:C:H5'	39:2h:31:PHE:CD1	2.50	0.46
32:2a:647:A:H5"	49:2r:61:LYS:HZ2	1.78	0.46
32:2a:1210:C:P	44:2m:108:ARG:HH12	2.35	0.46
32:2a:1256:G:H21	32:2a:1257:A:H62	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1262:A:O4'	41:2j:41:PRO:HG3	2.15	0.46
32:2a:1270:A:O4'	32:2a:1335:G:H4'	2.15	0.46
32:2a:1482:G:OP1	59:2a:1936:HOH:O	2.20	0.46
33:2b:58:ILE:H	33:2b:58:ILE:HD12	1.79	0.46
34:2c:22:TRP:CB	34:2c:59:ARG:HB2	2.45	0.46
36:2e:106:PRO:O	36:2e:109:ILE:HB	2.14	0.46
37:2f:62:TRP:C	37:2f:63:TYR:HD1	2.23	0.46
38:2g:44:TYR:HA	38:2g:47:CYS:HB3	1.96	0.46
38:2g:97:GLN:O	38:2g:101:LEU:HG	2.14	0.46
39:2h:26:VAL:HG22	39:2h:59:LEU:HB2	1.95	0.46
41:2j:22:LYS:O	41:2j:26:ALA:N	2.42	0.46
42:2k:34:ASP:HB2	42:2k:35:PRO:HD2	1.97	0.46
42:2k:80:VAL:HG22	42:2k:103:LEU:HB3	1.98	0.46
42:2k:123:LYS:HA	42:2k:126:ARG:HD3	1.97	0.46
1:1A:661:A:N6	1:1A:676:C:H4'	2.30	0.46
1:1A:718:C:O2'	1:1A:719:C:H5'	2.13	0.46
1:1A:733:C:H4'	29:17:3:ARG:O	2.16	0.46
1:1A:794:G:O6	1:1A:797:A:H5'	2.15	0.46
1:1A:933:A:C1'	1:1A:934:C:H5"	2.46	0.46
1:1A:1018:G:H3'	1:1A:1019:C:H5'	1.97	0.46
1:1A:1255:U:H3'	1:1A:1256:G:H5'	1.96	0.46
1:1A:1336:C:O2'	1:1A:1337:U:H5'	2.15	0.46
3:1D:95:LEU:HD11	3:1D:105:ILE:HD13	1.97	0.46
4:1E:6:GLY:O	4:1E:195:LEU:HD12	2.15	0.46
6:1G:11:TYR:HA	6:1G:15:VAL:CB	2.44	0.46
8:1I:29:TYR:C	8:1I:32:PRO:HD2	2.41	0.46
8:1I:71:ILE:O	8:1I:75:LEU:HD23	2.16	0.46
15:1T:49:VAL:O	15:1T:49:VAL:HG23	2.15	0.46
18:1W:19:LEU:HB3	27:15:25:LEU:CD1	2.45	0.46
22:10:38:VAL:HG21	22:10:45:PHE:HD2	1.80	0.46
23:11:73:LEU:HD21	23:11:98:LEU:HD23	1.97	0.46
24:12:4:SER:HA	24:12:7:ARG:HH11	1.79	0.46
32:1a:37:C:O2'	32:1a:38:U:H5'	2.16	0.46
32:1a:50:U:N3	32:1a:358:G:H1'	2.29	0.46
32:1a:68:C:H42	32:1a:96:G:H1	1.64	0.46
32:1a:160:C:C2'	32:1a:161:G:H5'	2.44	0.46
32:1a:289:G:O2'	32:1a:290:U:H5'	2.14	0.46
32:1a:791:A:O2'	32:1a:792:C:H5'	2.15	0.46
32:1a:917:G:H5'	38:1g:102:ARG:CZ	2.45	0.46
32:1a:917:G:P	38:1g:102:ARG:HH12	2.37	0.46
32:1a:931:G:H2'	32:1a:932:G:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1103:G:N2	32:1a:1136:C:N3	2.58	0.46
32:1a:1177:C:H5"	32:1a:1178:U:OP2	2.15	0.46
33:1b:34:ALA:O	33:1b:41:ILE:N	2.48	0.46
35:1d:4:TYR:OH	35:1d:7:PRO:O	2.22	0.46
35:1d:128:VAL:HA	35:1d:145:GLU:O	2.15	0.46
36:1e:99:GLY:HA2	36:1e:116:THR:O	2.15	0.46
37:1f:48:LEU:CD2	37:1f:60:PHE:HZ	2.25	0.46
42:1k:61:ALA:HB1	42:1k:94:ALA:CB	2.38	0.46
44:1m:16:ASP:CA	44:1m:34:LEU:HD11	2.45	0.46
1:2A:398:G:O2'	1:2A:426:G:O6	2.16	0.46
1:2A:445:C:O2'	1:2A:446:C:H5'	2.15	0.46
1:2A:672:G:H1'	1:2A:2362:G:H5"	1.97	0.46
1:2A:759:G:O2'	1:2A:760:U:H5'	2.14	0.46
1:2A:790:G:C2'	1:2A:791:G:H5'	2.46	0.46
1:2A:885:U:H1'	1:2A:1235:G:H1'	1.97	0.46
1:2A:957:C:O2	1:2A:957:C:H2'	2.15	0.46
1:2A:968:C:O2'	1:2A:969:C:H5'	2.15	0.46
1:2A:1114:A:O2'	1:2A:1116:G:OP1	2.30	0.46
1:2A:1164:C:C2'	1:2A:1165:G:H5'	2.45	0.46
1:2A:1346:A:H2'	1:2A:1346:A:N3	2.29	0.46
1:2A:1618:A:O2'	1:2A:1619:G:H5'	2.15	0.46
1:2A:2189:G:H22	1:2A:2192:A:P	2.39	0.46
1:2A:2209:C:H2'	1:2A:2210:U:O4'	2.14	0.46
1:2A:2276:U:C4'	12:2Q:13:GLN:HE22	2.28	0.46
1:2A:2298:A:H61	1:2A:2355:U:H3	1.63	0.46
1:2A:2301:G:N2	1:2A:2354:C:O2	2.48	0.46
1:2A:2328:C:H2'	1:2A:2329:G:H5'	1.97	0.46
1:2A:2452:C:O2'	1:2A:2453:C:H5'	2.14	0.46
5:2F:108:LYS:O	5:2F:111:ALA:N	2.49	0.46
6:2G:98:ARG:HA	6:2G:101:ILE:HD12	1.97	0.46
6:2G:107:LEU:HD21	6:2G:178:PHE:CD1	2.50	0.46
6:2G:146:TYR:C	6:2G:149:VAL:HG12	2.40	0.46
9:2N:29:LYS:O	9:2N:31:ALA:N	2.47	0.46
17:2V:45:THR:HG22	17:2V:45:THR:O	2.15	0.46
20:2Y:11:ASP:O	20:2Y:27:VAL:HG23	2.14	0.46
20:2Y:86:ARG:HB2	20:2Y:98:VAL:CG2	2.45	0.46
21:2Z:144:LEU:HD11	21:2Z:150:LEU:HD11	1.96	0.46
22:20:26:TYR:N	22:20:26:TYR:CD1	2.82	0.46
32:2a:53:G:H1	32:2a:355:U:H3	1.62	0.46
32:2a:137:G:H2'	32:2a:138:A:H8	1.77	0.46
32:2a:579:G:O2'	32:2a:580:C:OP2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:755:G:H2'	32:2a:756:U:H5'	1.97	0.46
32:2a:1087:G:O2'	32:2a:1088:A:H5'	2.15	0.46
32:2a:1188:G:O4'	34:2c:194:GLY:HA2	2.15	0.46
34:2c:70:VAL:C	34:2c:106:VAL:HG23	2.40	0.46
34:2c:130:VAL:HG11	34:2c:153:VAL:HG11	1.97	0.46
35:2d:92:VAL:O	35:2d:95:GLY:N	2.49	0.46
35:2d:102:ASP:HB2	35:2d:118:ARG:CG	2.45	0.46
36:2e:59:GLY:O	36:2e:62:ALA:HB3	2.15	0.46
38:2g:15:ASP:OD2	38:2g:18:TYR:HB2	2.15	0.46
44:2m:58:GLU:O	44:2m:59:TYR:C	2.58	0.46
47:2p:69:THR:O	47:2p:73:LEU:HG	2.15	0.46
48:2q:22:LEU:HD13	48:2q:41:LYS:CG	2.45	0.46
1:1A:80:G:H5"	1:1A:319:C:H5'	1.96	0.46
1:1A:182:G:H2'	1:1A:183:A:O4'	2.15	0.46
1:1A:1356:G:C4	29:17:47:ARG:NH1	2.84	0.46
1:1A:1513:C:H42	1:1A:1570:G:H1	1.63	0.46
1:1A:1824:U:H2'	1:1A:1825:C:C6	2.51	0.46
1:1A:2207:G:H2'	1:1A:2208:G:C4'	2.45	0.46
3:1D:206:LEU:C	3:1D:211:ARG:HD3	2.40	0.46
4:1E:98:PRO:HA	4:1E:172:VAL:HG12	1.96	0.46
4:1E:182:LEU:CD2	4:1E:198:VAL:HG11	2.45	0.46
7:1H:94:TYR:HA	7:1H:106:THR:O	2.16	0.46
10:1O:8:LEU:HD13	10:1O:82:ASN:CB	2.45	0.46
12:1Q:106:VAL:HG21	12:1Q:114:ALA:HB1	1.98	0.46
18:1W:66:GLU:HA	18:1W:69:LEU:CD1	2.46	0.46
20:1Y:90:LEU:HD11	20:1Y:96:ILE:HG12	1.97	0.46
23:11:58:ILE:HG22	23:11:60:PHE:CE1	2.50	0.46
25:13:10:LYS:NZ	25:13:15:TYR:OH	2.32	0.46
29:17:18:PHE:O	29:17:21:ARG:HB2	2.15	0.46
29:17:47:ARG:O	29:17:48:LYS:HB2	2.15	0.46
30:18:47:LYS:HE2	55:18:104:MPD:C5	2.46	0.46
32:1a:187:C:H2'	32:1a:188:C:O4'	2.15	0.46
32:1a:319:U:H2'	32:1a:320:G:O4'	2.16	0.46
32:1a:435:A:H2'	32:1a:436:A:O4'	2.14	0.46
32:1a:1195:A:N1	32:1a:1197:G:H1'	2.31	0.46
32:1a:1369:G:O2'	32:1a:1370:G:H5'	2.15	0.46
32:1a:1390:5MC:H6	32:1a:1390:5MC:O5'	1.97	0.46
37:1f:98:LEU:HA	49:1r:29:PHE:O	2.15	0.46
40:1i:20:ARG:O	40:1i:22:GLY:N	2.48	0.46
41:1j:44:VAL:HG22	41:1j:66:ARG:CD	2.45	0.46
47:1p:38:TYR:CE1	47:1p:50:LYS:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:1t:73:HIS:HE1	51:1t:75:ASN:OD1	1.99	0.46
1:2A:235:G:H4'	1:2A:412:G:C5	2.50	0.46
1:2A:725:C:O2	1:2A:845:G:N2	2.49	0.46
1:2A:1245:C:H42	1:2A:1289:G:H1	1.63	0.46
1:2A:1249:U:O2	5:2F:171:PRO:HG3	2.16	0.46
1:2A:1828:U:H5'	3:2D:259:THR:HG22	1.96	0.46
1:2A:1926:C:O2'	1:2A:1950:G:H1'	2.15	0.46
1:2A:2101:G:O2'	1:2A:2102:C:H5'	2.16	0.46
1:2A:2126:C:N4	1:2A:2127:G:O6	2.47	0.46
1:2A:2193:U:H1'	1:2A:2194:A:OP1	2.15	0.46
1:2A:2326:G:O2'	1:2A:2327:C:H5'	2.15	0.46
1:2A:2851:G:H2'	1:2A:2852:G:O4'	2.15	0.46
3:2D:156:ALA:O	3:2D:157:ARG:HG3	2.15	0.46
4:2E:23:VAL:HA	4:2E:184:VAL:O	2.16	0.46
4:2E:117:MET:O	4:2E:121:ASN:HA	2.14	0.46
12:2Q:18:LYS:O	12:2Q:98:LYS:NZ	2.43	0.46
12:2Q:52:VAL:HG22	21:2Z:183:LEU:HD22	1.97	0.46
12:2Q:84:GLY:O	12:2Q:85:LYS:HB2	2.16	0.46
13:2R:103:ARG:HD3	18:2W:40:ASN:ND2	2.30	0.46
17:2V:21:ARG:CD	17:2V:91:TYR:CE2	2.96	0.46
19:2X:34:ALA:HA	19:2X:38:GLU:OE1	2.15	0.46
32:2a:120:G:H1	32:2a:231:C:N4	2.09	0.46
32:2a:421:G:H2'	32:2a:422:G:O4'	2.16	0.46
32:2a:538:C:H2'	32:2a:539:C:H6	1.79	0.46
32:2a:589:U:C2'	32:2a:590:G:H5'	2.45	0.46
32:2a:636:U:C1'	32:2a:637:A:H2	2.27	0.46
32:2a:735:U:C2'	32:2a:736:G:H5'	2.45	0.46
32:2a:818:C:C2'	32:2a:819:U:H5'	2.46	0.46
32:2a:881:G:H5"	59:2a:1921:HOH:O	2.16	0.46
32:2a:954:G:N2	32:2a:1344:C:H2'	2.30	0.46
32:2a:1054:C:H2'	32:2a:1055:G:C8	2.50	0.46
32:2a:1260:U:H5"	32:2a:1261:A:H5'	1.96	0.46
32:2a:1284:U:OP2	44:2m:21:TYR:HE1	1.97	0.46
32:2a:1414:C:O2	32:2a:1448:G:N2	2.48	0.46
32:2a:1459:U:H2'	32:2a:1460:G:C8	2.50	0.46
33:2b:136:VAL:HG13	33:2b:137:ARG:N	2.31	0.46
34:2c:35:GLU:HA	34:2c:38:ARG:HD2	1.97	0.46
35:2d:64:LEU:CB	35:2d:198:VAL:HG21	2.45	0.46
40:2i:48:GLU:OE1	40:2i:51:ARG:HD2	2.14	0.46
41:2j:42:THR:HG23	41:2j:68:HIS:HA	1.96	0.46
42:2k:28:THR:HB	42:2k:61:ALA:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:4:ILE:O	44:2m:5:ALA:HB3	2.15	0.46
44:2m:50:GLU:O	44:2m:54:VAL:HG13	2.14	0.46
44:2m:78:ILE:O	44:2m:79:LYS:C	2.58	0.46
45:2n:23:ARG:HA	45:2n:29:ARG:O	2.14	0.46
1:1A:151:G:O2'	1:1A:152:C:H5'	2.15	0.46
1:1A:174:G:C2'	1:1A:175:G:H5'	2.45	0.46
1:1A:241:C:C2'	1:1A:242:G:H5'	2.45	0.46
1:1A:267:G:HO2'	1:1A:268:G:H8	1.63	0.46
1:1A:789:G:O2'	1:1A:790:G:H5'	2.15	0.46
1:1A:1451:U:H2'	1:1A:1452:C:C6	2.51	0.46
1:1A:1511:G:H2'	1:1A:1512:G:H8	1.81	0.46
1:1A:2310:G:O6	1:1A:2329:G:N2	2.48	0.46
1:1A:2495:G:H1'	12:1Q:124:LYS:HD2	1.97	0.46
1:1A:2571:C:O2'	1:1A:2572:A:H5'	2.15	0.46
1:1A:2701:C:H5"	1:1A:2881:G:N2	2.31	0.46
1:1A:2822:A:O2'	1:1A:2823:C:H5'	2.14	0.46
3:1D:77:ALA:CB	3:1D:97:TYR:HD1	2.29	0.46
5:1F:37:VAL:HG13	5:1F:41:LEU:HD23	1.96	0.46
6:1G:11:TYR:CE2	6:1G:16:ARG:HD3	2.51	0.46
7:1H:159:GLU:HG2	7:1H:169:VAL:CG1	2.45	0.46
10:1O:3:GLN:HB2	10:1O:4:PRO:HD2	1.98	0.46
10:1O:15:GLY:O	10:1O:47:ILE:N	2.40	0.46
13:1R:85:PRO:C	13:1R:87:TYR:H	2.23	0.46
16:1U:69:CYS:SG	16:1U:79:PHE:HD2	2.39	0.46
18:1W:23:LEU:HD11	27:15:27:PRO:CA	2.46	0.46
20:1Y:90:LEU:HD11	20:1Y:96:ILE:CG1	2.45	0.46
32:1a:566:U:O2'	32:1a:567:A:H5'	2.16	0.46
32:1a:825:U:H5	32:1a:826:C:C2	2.34	0.46
32:1a:910:C:O2'	32:1a:911:G:H5'	2.15	0.46
32:1a:922:G:N1	32:1a:1320:G:OP2	2.45	0.46
32:1a:1057:G:H2'	32:1a:1058:C:C6	2.50	0.46
32:1a:1129:A:H2'	32:1a:1130:C:H5'	1.98	0.46
32:1a:1298:G:N1	32:1a:1301:A:OP2	2.43	0.46
32:1a:1356:G:H8	32:1a:1356:G:O5'	1.98	0.46
32:1a:1507:G:H4'	32:1a:1508:G:OP2	2.16	0.46
34:1c:201:TYR:N	34:1c:201:TYR:CD1	2.82	0.46
36:1e:46:GLY:CA	36:1e:58:ALA:HB2	2.46	0.46
39:1h:19:VAL:CG2	39:1h:21:LYS:HG2	2.43	0.46
40:1i:31:GLN:NE2	40:1i:36:TYR:HA	2.30	0.46
45:1n:41:ARG:O	45:1n:44:LEU:HB3	2.15	0.46
47:1p:19:ILE:CG2	47:1p:19:ILE:O	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:1q:5:VAL:HA	48:1q:59:ILE:O	2.16	0.46
52:1u:10:ARG:NH1	52:1u:13:ILE:HG21	2.30	0.46
1:2A:67:C:O2	1:2A:71:A:O2'	2.29	0.46
1:2A:797:A:OP2	18:2W:90:ARG:N	2.45	0.46
1:2A:804:C:H2'	1:2A:805:G:H8	1.80	0.46
1:2A:1406:G:H1	1:2A:1415:C:H42	1.63	0.46
1:2A:1760:G:O2'	1:2A:1761:G:H5'	2.16	0.46
1:2A:1942:G:O2'	1:2A:1943:G:H5'	2.15	0.46
1:2A:2567:C:O2'	1:2A:2568:G:H5'	2.15	0.46
1:2A:2827:G:O2'	1:2A:2828:G:H5'	2.15	0.46
2:2B:115:G:H1'	14:2S:47:THR:HG21	1.96	0.46
4:2E:101:ARG:HD3	4:2E:171:GLU:N	2.29	0.46
4:2E:124:GLY:HA2	4:2E:137:HIS:O	2.16	0.46
6:2G:11:TYR:HD2	6:2G:12:TYR:CE1	2.33	0.46
6:2G:132:ASN:O	6:2G:133:LEU:CB	2.63	0.46
10:2O:64:ARG:HG2	10:2O:79:PHE:CE2	2.51	0.46
17:2V:1:MET:HE1	17:2V:43:GLU:HB2	1.95	0.46
17:2V:62:LEU:CD1	17:2V:95:LEU:HB2	2.45	0.46
18:2W:39:THR:O	18:2W:41:LYS:N	2.49	0.46
32:2a:30:G:H2'	32:2a:31:U:H6	1.80	0.46
32:2a:436:A:H3'	32:2a:437:C:C6	2.50	0.46
32:2a:644:G:H1	32:2a:729:C:H42	1.63	0.46
32:2a:898:U:O2'	32:2a:899:U:H5'	2.16	0.46
32:2a:949:G:H1'	32:2a:1348:G:O2'	2.16	0.46
32:2a:1191:C:C2'	32:2a:1196:C:H42	2.28	0.46
32:2a:1206:G:N2	32:2a:1304:C:H4'	2.30	0.46
32:2a:1270:A:H2'	32:2a:1271:A:O4'	2.14	0.46
33:2b:8:LYS:HG3	33:2b:9:GLU:N	2.18	0.46
33:2b:71:VAL:HG12	33:2b:93:VAL:HG21	1.98	0.46
33:2b:145:LEU:HD22	33:2b:149:LEU:HD11	1.98	0.46
33:2b:155:LEU:HD21	33:2b:159:PRO:CD	2.44	0.46
34:2c:188:LEU:CD1	34:2c:195:VAL:HG13	2.43	0.46
35:2d:102:ASP:CB	35:2d:118:ARG:HG2	2.46	0.46
38:2g:59:LEU:O	38:2g:63:LYS:HG3	2.14	0.46
43:2l:24:VAL:HB	43:2l:27:LEU:CD1	2.36	0.46
44:2m:39:ILE:HD12	44:2m:56:LEU:HB2	1.96	0.46
45:2n:22:THR:HB	45:2n:33:VAL:HG11	1.97	0.46
49:2r:22:VAL:O	49:2r:25:THR:OG1	2.22	0.46
49:2r:32:ARG:HA	49:2r:69:THR:CG2	2.45	0.46
50:2s:45:VAL:HG12	50:2s:46:GLY:N	2.31	0.46
1:1A:262:C:N4	1:1A:280:G:H1	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:558:U:C5'	16:1U:42:ALA:HB1	2.38	0.46
1:1A:651:A:H4'	1:1A:652:G:OP1	2.15	0.46
1:1A:1015:C:H2'	1:1A:1016:G:C5'	2.46	0.46
1:1A:1489:G:H5"	1:1A:1490:A:OP1	2.15	0.46
1:1A:2013:G:N2	1:1A:2017:C:O2'	2.48	0.46
1:1A:2150:C:C2	1:1A:2180:G:C6	3.03	0.46
1:1A:2218:U:O2'	1:1A:2219:A:C2'	2.63	0.46
1:1A:2641:G:C1'	1:1A:2902:G:H1'	2.45	0.46
3:1D:12:SER:CB	3:1D:208:LYS:HB3	2.45	0.46
3:1D:133:LEU:HD23	3:1D:136:ILE:HD12	1.97	0.46
6:1G:111:LEU:HB2	6:1G:112:PRO:HD3	1.97	0.46
6:1G:114:ILE:HG12	6:1G:140:ILE:HD13	1.97	0.46
6:1G:133:LEU:HD11	6:1G:157:ILE:CD1	2.38	0.46
8:1I:4:ILE:O	8:1I:37:VAL:N	2.45	0.46
9:1N:67:LEU:HG	9:1N:87:LEU:HD22	1.98	0.46
16:1U:53:ARG:O	16:1U:57:PHE:HD2	1.99	0.46
21:1Z:8:TYR:HD1	21:1Z:8:TYR:N	2.11	0.46
21:1Z:59:LEU:O	21:1Z:66:SER:HA	2.15	0.46
32:1a:11:A:O2'	32:1a:12:G:H5'	2.15	0.46
32:1a:577:G:O2'	32:1a:578:G:H5'	2.16	0.46
32:1a:697:G:H2'	32:1a:698:G:C8	2.51	0.46
32:1a:826:C:H6	32:1a:826:C:O5'	1.99	0.46
32:1a:840:C:O2'	32:1a:841:U:H5'	2.15	0.46
32:1a:994:A:H8	32:1a:994:A:O5'	1.98	0.46
32:1a:1043:C:O4'	41:1j:52:GLY:HA2	2.15	0.46
32:1a:1216:C:O2'	32:1a:1217:U:H5'	2.14	0.46
32:1a:1470:A:H4'	32:1a:1471:A:N1	2.31	0.46
34:1c:35:GLU:CG	34:1c:59:ARG:HH22	2.28	0.46
35:1d:13:ARG:NH2	35:1d:40:PRO:HA	2.30	0.46
35:1d:78:LEU:CD1	35:1d:97:LEU:HD23	2.45	0.46
36:1e:10:MET:O	36:1e:10:MET:HG3	2.16	0.46
37:1f:4:TYR:HA	37:1f:93:SER:H	1.81	0.46
38:1g:78:ARG:HB2	38:1g:156:TRP:HZ3	1.79	0.46
38:1g:108:ALA:CB	38:1g:120:ILE:HD13	2.46	0.46
43:1l:10:LEU:O	43:1l:14:GLY:HA2	2.16	0.46
44:1m:36:LYS:HE2	44:1m:36:LYS:HA	1.98	0.46
44:1m:108:ARG:HD3	44:1m:112:GLY:O	2.15	0.46
45:1n:54:PRO:C	45:1n:56:VAL:H	2.23	0.46
46:1o:39:LEU:O	46:1o:43:LEU:N	2.41	0.46
50:1s:40:ILE:HB	50:1s:67:VAL:C	2.39	0.46
50:1s:63:THR:C	50:1s:65:ASN:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:1u:7:ARG:O	52:1u:8:THR:HG23	2.15	0.46
1:2A:41:G:O2'	1:2A:42:A:H5'	2.15	0.46
1:2A:801:C:C2'	1:2A:802:C:H5'	2.46	0.46
1:2A:852:C:OP2	11:2P:41:ARG:NE	2.48	0.46
1:2A:917:U:H2'	1:2A:918:A:C8	2.50	0.46
1:2A:956:A:N6	12:2Q:11:LYS:O	2.48	0.46
1:2A:1561:U:O2'	1:2A:1562:G:H5'	2.15	0.46
1:2A:1613:A:C5	3:2D:84:TYR:CE2	3.04	0.46
1:2A:1614:G:H5"	3:2D:61:LEU:HB2	1.97	0.46
1:2A:1755:U:O2'	1:2A:2868:G:O2'	2.31	0.46
1:2A:1972:U:H2'	1:2A:1974:A:OP2	2.15	0.46
1:2A:2703:C:H1'	1:2A:2856:U:O2'	2.15	0.46
1:2A:2819:A:N6	1:2A:2899:G:O2'	2.43	0.46
1:2A:2830:A:P	4:2E:110:GLY:H	2.38	0.46
3:2D:145:VAL:HB	3:2D:155:LEU:HB2	1.98	0.46
4:2E:15:PHE:CE2	15:2T:81:PRO:HD2	2.51	0.46
4:2E:53:PRO:HA	4:2E:75:VAL:HA	1.98	0.46
4:2E:59:VAL:HG12	4:2E:60:ASN:H	1.80	0.46
6:2G:20:ILE:O	6:2G:24:GLY:HA2	2.14	0.46
6:2G:47:LYS:HB2	6:2G:86:MET:SD	2.56	0.46
13:2R:19:ALA:O	13:2R:23:ASN:ND2	2.48	0.46
14:2S:9:ARG:O	14:2S:10:ARG:C	2.59	0.46
16:2U:52:ARG:O	16:2U:55:ARG:HG2	2.15	0.46
19:2X:50:LYS:HB3	19:2X:84:ALA:HB2	1.97	0.46
21:2Z:4:ARG:HH21	21:2Z:60:GLU:HG2	1.80	0.46
26:24:46:GLN:O	26:24:48:ARG:NH1	2.49	0.46
31:29:31:LYS:C	31:29:33:LYS:H	2.23	0.46
32:2a:250:G:O2'	32:2a:251:G:H5'	2.15	0.46
32:2a:702:G:N2	49:2r:49:LYS:HG2	2.31	0.46
32:2a:821:G:H2'	32:2a:822:G:O4'	2.15	0.46
32:2a:1008:C:N3	32:2a:1009:C:N4	2.64	0.46
32:2a:1270:A:H1'	32:2a:1335:G:C4'	2.46	0.46
32:2a:1302:C:N4	50:2s:36:ARG:HB2	2.30	0.46
32:2a:1467:G:C2'	32:2a:1468:C:H5'	2.45	0.46
32:2a:1508:G:HO2'	32:2a:1509:A:C5'	2.28	0.46
33:2b:53:ARG:CA	33:2b:56:ARG:HH21	2.27	0.46
33:2b:110:GLN:HA	33:2b:113:HIS:HD2	1.81	0.46
33:2b:167:PRO:CD	33:2b:188:ALA:HB2	2.45	0.46
33:2b:180:LEU:HB2	33:2b:182:ILE:HG13	1.98	0.46
35:2d:61:LYS:O	35:2d:62:GLN:C	2.58	0.46
39:2h:65:TYR:CD1	39:2h:65:TYR:N	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2l:36:VAL:O	43:2l:58:VAL:HG13	2.15	0.46
43:2l:50:SER:O	43:2l:51:ALA:HB2	2.14	0.46
44:2m:91:ARG:NH1	44:2m:96:LEU:HD13	2.30	0.46
51:2t:73:HIS:H	51:2t:76:ALA:HB3	1.81	0.46
1:1A:203:G:O3'	1:1A:204:A:H4'	2.16	0.46
1:1A:1361:U:H2'	1:1A:1362:A:H8	1.80	0.46
1:1A:2037:U:C1'	27:15:6:VAL:HG22	2.45	0.46
1:1A:2218:U:O2'	1:1A:2219:A:C8	2.68	0.46
1:1A:2594:G:H2'	1:1A:2595:U:H5'	1.98	0.46
2:1B:55:U:O2'	6:1G:27:ASN:ND2	2.43	0.46
3:1D:85:ASP:C	3:1D:87:ASN:H	2.24	0.46
3:1D:185:VAL:CG1	3:1D:186:HIS:H	2.27	0.46
8:1I:72:LEU:HD22	8:1I:140:LEU:CD2	2.45	0.46
10:1O:79:PHE:N	10:1O:79:PHE:HD1	2.13	0.46
13:1R:96:ARG:NH2	13:1R:115:GLU:OE2	2.47	0.46
16:1U:81:HIS:O	16:1U:84:LYS:HB3	2.16	0.46
17:1V:76:LYS:HD2	17:1V:81:TYR:HD2	1.80	0.46
24:12:12:GLU:O	24:12:16:LEU:HG	2.15	0.46
32:1a:734:G:N3	46:1o:23:GLY:HA3	2.30	0.46
32:1a:753:G:C2'	32:1a:754:C:H5'	2.46	0.46
32:1a:787:G:H8	32:1a:787:G:O5'	1.98	0.46
32:1a:957:C:N4	45:1n:18:VAL:HB	2.30	0.46
32:1a:1016:G:H2'	32:1a:1017:G:C8	2.51	0.46
32:1a:1080:C:H1'	32:1a:1151:A:C2	2.51	0.46
32:1a:1134:A:O4'	41:1j:39:PRO:HB2	2.16	0.46
32:1a:1474:C:H2'	32:1a:1475:G:C1'	2.45	0.46
34:1c:51:GLY:C	34:1c:70:VAL:HG23	2.41	0.46
34:1c:159:GLY:HA2	34:1c:193:TYR:HD2	1.77	0.46
36:1e:89:ILE:HG13	36:1e:91:LEU:CD1	2.46	0.46
37:1f:62:TRP:C	37:1f:63:TYR:CD1	2.92	0.46
46:1o:74:ASP:HB3	46:1o:77:ARG:HD3	1.98	0.46
48:1q:29:HIS:CG	48:1q:30:PRO:HD2	2.51	0.46
48:1q:40:LYS:CG	48:1q:42:TYR:HE1	2.29	0.46
50:1s:50:ALA:O	50:1s:57:HIS:ND1	2.48	0.46
51:1t:71:THR:HG22	51:1t:72:LEU:HG	1.98	0.46
1:2A:767:C:H2'	1:2A:768:A:H8	1.81	0.46
1:2A:894:G:N3	1:2A:977:A:H1'	2.30	0.46
1:2A:984:G:H2'	1:2A:985:A:H5"	1.97	0.46
1:2A:1293:G:C4	16:2U:3:ARG:HB3	2.51	0.46
1:2A:1708:C:C2'	1:2A:1709:C:H5'	2.46	0.46
1:2A:2037:U:H1'	27:25:6:VAL:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2073:G:O2'	1:2A:2074:G:H5'	2.16	0.46
1:2A:2478:C:OP1	31:29:6:SER:OG	2.32	0.46
1:2A:2522:U:O2'	1:2A:2523:C:H5'	2.16	0.46
1:2A:2556:G:O2'	1:2A:2557:U:H5'	2.15	0.46
1:2A:2715:C:H2'	1:2A:2716:A:O4'	2.16	0.46
1:2A:2749:G:O2'	1:2A:2750:A:H5'	2.16	0.46
1:2A:2879:C:H2'	1:2A:2880:C:C5'	2.45	0.46
3:2D:3:VAL:CG2	3:2D:17:THR:HB	2.45	0.46
5:2F:57:VAL:HG21	5:2F:87:GLY:CA	2.44	0.46
5:2F:181:LEU:HD11	5:2F:186:ILE:CD1	2.40	0.46
8:2I:51:ILE:O	8:2I:53:ALA:N	2.49	0.46
9:2N:47:ALA:CA	9:2N:112:LEU:HD11	2.46	0.46
9:2N:73:THR:O	9:2N:74:ARG:HG3	2.16	0.46
10:2O:48:PRO:HB3	32:2a:1405:G:C5'	2.44	0.46
12:2Q:74:TYR:HB3	12:2Q:92:GLY:O	2.15	0.46
13:2R:33:ARG:NH2	13:2R:115:GLU:OE1	2.46	0.46
13:2R:72:ASP:HA	59:2R:8102:HOH:O	2.15	0.46
17:2V:58:VAL:HG12	17:2V:97:LYS:HB2	1.96	0.46
19:2X:50:LYS:O	19:2X:84:ALA:N	2.46	0.46
27:25:41:PRO:HG2	27:25:44:THR:OG1	2.16	0.46
32:2a:486:G:O2'	32:2a:487:C:H5'	2.15	0.46
32:2a:1091:G:H5'	34:2c:176:HIS:CD2	2.51	0.46
32:2a:1146:C:H42	32:2a:1155:G:H1	1.63	0.46
32:2a:1354:G:H5"	40:2i:69:GLY:N	2.31	0.46
32:2a:1393:G:H2'	32:2a:1394:C:C6	2.50	0.46
32:2a:1490:U:O2'	32:2a:1491:A:H5'	2.15	0.46
33:2b:60:ASP:CG	33:2b:64:ARG:HE	2.23	0.46
41:2j:51:ARG:NE	41:2j:60:ARG:O	2.48	0.46
42:2k:82:VAL:HG12	42:2k:84:VAL:HG23	1.97	0.46
1:1A:313:G:O2'	1:1A:314:C:H5'	2.16	0.46
1:1A:696:C:H5'	1:1A:697:G:P	2.56	0.46
1:1A:791:G:O6	1:1A:792:A:N6	2.49	0.46
1:1A:1483:U:O2'	1:1A:1484:A:H5'	2.15	0.46
1:1A:1695:G:C2'	1:1A:1696:G:H5'	2.45	0.46
1:1A:2207:G:H2'	1:1A:2208:G:O4'	2.16	0.46
1:1A:2632:A:O2'	4:1E:159:HIS:CD2	2.69	0.46
1:1A:2823:C:O2'	27:15:29:THR:CG2	2.64	0.46
2:1B:91:C:OP1	12:1Q:16:ARG:HG2	2.16	0.46
2:1B:105:A:P	21:1Z:72:ARG:HH21	2.35	0.46
5:1F:102:PRO:HB2	5:1F:105:VAL:CG2	2.45	0.46
6:1G:35:GLU:HG3	6:1G:160:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:77:ILE:HD13	6:1G:80:PHE:HD2	1.80	0.46
11:1P:65:ARG:O	11:1P:68:GLN:NE2	2.48	0.46
12:1Q:42:ILE:HA	12:1Q:46:GLN:OE1	2.15	0.46
15:1T:74:ARG:HD3	15:1T:76:PHE:CE1	2.50	0.46
17:1V:1:MET:CE	17:1V:43:GLU:HB2	2.46	0.46
18:1W:12:ILE:HD12	18:1W:42:ARG:HD3	1.98	0.46
24:12:1:MET:N	24:12:52:ASP:OD1	2.48	0.46
32:1a:88:C:H2'	32:1a:89:G:C8	2.51	0.46
32:1a:552:G:O6	43:1l:5:PRO:HD3	2.16	0.46
32:1a:1176:U:H5'	36:1e:22:GLY:O	2.15	0.46
32:1a:1204:G:C2'	32:1a:1205:C:H5'	2.46	0.46
32:1a:1207:A:O2'	32:1a:1208:C:C6	2.69	0.46
32:1a:1468:C:O2'	32:1a:1469:G:H5'	2.15	0.46
33:1b:125:PRO:O	33:1b:126:GLU:C	2.58	0.46
39:1h:103:VAL:HB	39:1h:108:GLY:C	2.40	0.46
41:1j:63:PHE:CZ	45:1n:45:ARG:HG3	2.50	0.46
47:1p:17:TYR:N	47:1p:17:TYR:CD1	2.81	0.46
49:1r:36:ASN:HD21	49:1r:39:VAL:HG21	1.81	0.46
1:2A:12:A:N3	1:2A:13:A:N6	2.63	0.46
1:2A:98:G:H3'	1:2A:99:G:H5'	1.97	0.46
1:2A:133:G:O2'	1:2A:134:C:H5'	2.15	0.46
1:2A:298:G:O2'	1:2A:299:A:H5'	2.16	0.46
1:2A:342:C:H2'	1:2A:343:A:O4'	2.15	0.46
1:2A:612:A:O2'	1:2A:613:C:H5'	2.16	0.46
1:2A:970:C:H2'	1:2A:971:A:H8	1.81	0.46
1:2A:1183:G:O3'	9:2N:24:GLY:HA3	2.16	0.46
1:2A:1445:G:H2'	1:2A:1446:G:C8	2.51	0.46
1:2A:1472:A:H4'	1:2A:1473:C:O5'	2.16	0.46
1:2A:1573:A:O2'	1:2A:1574:A:H5'	2.15	0.46
1:2A:1979:C:O2'	1:2A:1980:G:H5'	2.16	0.46
1:2A:2309:A:H2'	1:2A:2310:G:O4'	2.16	0.46
4:2E:174:ASP:OD1	4:2E:175:VAL:N	2.41	0.46
9:2N:42:TRP:CE3	16:2U:63:VAL:HG11	2.50	0.46
12:2Q:38:GLU:OE2	12:2Q:128:LYS:N	2.46	0.46
14:2S:51:ALA:HB3	14:2S:73:LEU:HB2	1.96	0.46
19:2X:35:THR:O	19:2X:39:ILE:HG13	2.15	0.46
20:2Y:24:VAL:HG12	20:2Y:25:GLY:N	2.30	0.46
20:2Y:83:THR:HG21	20:2Y:99:CYS:SG	2.56	0.46
21:2Z:10:ARG:HH11	21:2Z:25:PRO:HB3	1.80	0.46
25:23:21:ALA:O	25:23:24:LYS:HB3	2.16	0.46
26:24:20:ASN:OD1	26:24:21:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:212:G:H2'	32:2a:213:C:C6	2.50	0.46
32:2a:485:C:H1'	32:2a:533:C:O2'	2.16	0.46
32:2a:913:A:O2'	32:2a:914:C:H5'	2.15	0.46
32:2a:1342:A:OP1	32:2a:1342:A:H8	1.98	0.46
33:2b:218:ALA:O	33:2b:221:LEU:HB3	2.16	0.46
34:2c:173:VAL:HG12	34:2c:173:VAL:O	2.15	0.46
35:2d:12:CYS:SG	35:2d:19:LEU:HB2	2.55	0.46
38:2g:36:LYS:HZ2	38:2g:36:LYS:HB2	1.81	0.46
38:2g:48:LYS:O	38:2g:51:GLN:N	2.40	0.46
38:2g:95:ARG:O	38:2g:99:LEU:HG	2.15	0.46
45:2n:3:ARG:O	45:2n:7:ILE:HG23	2.15	0.46
48:2q:53:LEU:HD21	48:2q:82:MET:HE1	1.96	0.46
51:2t:29:LYS:HD3	51:2t:66:ALA:CA	2.45	0.46
1:1A:900:G:H1	1:1A:968:C:N4	2.10	0.46
1:1A:1355:G:O4'	1:1A:1656:C:H4'	2.16	0.46
1:1A:2046:C:H4'	59:1A:4238:HOH:O	2.15	0.46
1:1A:2176:G:H2'	1:1A:2177:G:C8	2.50	0.46
1:1A:2556:G:C2'	1:1A:2557:U:H5'	2.46	0.46
1:1A:2632:A:C2'	1:1A:2633:C:H5'	2.45	0.46
59:1A:4909:HOH:O	3:1D:48:ARG:HD3	2.15	0.46
2:1B:75:G:O2'	21:1Z:10:ARG:NH2	2.49	0.46
4:1E:111:ARG:HB2	4:1E:160:TYR:O	2.16	0.46
6:1G:38:VAL:HG22	6:1G:93:THR:HG23	1.98	0.46
13:1R:33:ARG:CG	13:1R:115:GLU:CB	2.92	0.46
30:18:14:VAL:C	55:18:104:MPD:H32	2.40	0.46
32:1a:73:C:O2'	32:1a:74:G:H5'	2.14	0.46
32:1a:116:G:N2	32:1a:117:C:H1'	2.30	0.46
32:1a:122:G:O2'	32:1a:123:U:H5'	2.16	0.46
32:1a:198:G:O2'	51:1t:101:GLY:HA3	2.15	0.46
32:1a:563:G:O5'	32:1a:712:A:H1'	2.16	0.46
32:1a:632:A:C2'	32:1a:633:G:H5'	2.46	0.46
32:1a:643:U:C2'	32:1a:644:G:H5'	2.46	0.46
32:1a:797:U:OP1	32:1a:881:G:O2'	2.33	0.46
32:1a:844:C:H6	32:1a:844:C:O5'	1.99	0.46
32:1a:1209:A:H3'	32:1a:1209:A:N3	2.30	0.46
33:1b:84:GLU:HB3	33:1b:219:VAL:CG2	2.46	0.46
34:1c:131:ARG:HD3	34:1c:166:GLU:CD	2.40	0.46
38:1g:27:ILE:HD11	38:1g:43:PHE:CG	2.51	0.46
38:1g:145:ALA:O	38:1g:148:ASN:N	2.37	0.46
40:1i:27:THR:O	40:1i:63:ILE:N	2.47	0.46
40:1i:114:TYR:HD2	41:1j:60:ARG:CB	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:63:PHE:HA	45:1n:58:LYS:HA	1.98	0.46
1:2A:216:A:H2'	1:2A:217:A:C5'	2.46	0.46
1:2A:352:G:H4'	1:2A:353:A:OP2	2.16	0.46
1:2A:501:G:N2	1:2A:503:A:H3'	2.30	0.46
1:2A:759:G:C2'	1:2A:760:U:H5'	2.45	0.46
1:2A:792:A:O2'	1:2A:2622:U:O2'	2.34	0.46
1:2A:839:A:OP2	1:2A:2092:A:O2'	2.34	0.46
1:2A:870:A:H2'	1:2A:871:C:O4'	2.16	0.46
1:2A:1032:G:H2'	1:2A:1033:A:O4'	2.15	0.46
1:2A:1064:U:OP1	1:2A:1080:U:O2'	2.25	0.46
1:2A:1213:G:O2'	1:2A:1214:G:H5'	2.16	0.46
1:2A:2160:C:H2'	1:2A:2161:C:C5'	2.46	0.46
1:2A:2297:A:C2	28:26:36:LEU:HD11	2.50	0.46
1:2A:2353:C:O5'	1:2A:2353:C:H6	1.99	0.46
1:2A:2417:U:OP1	1:2A:2422:A:N6	2.49	0.46
1:2A:2516:G:O6	1:2A:2587:G:H2'	2.16	0.46
1:2A:2783:C:O2'	4:2E:168:MET:HE1	2.16	0.46
2:2B:78:A:H2'	2:2B:79:C:H5'	1.96	0.46
3:2D:142:VAL:HG22	3:2D:143:HIS:N	2.30	0.46
3:2D:162:SER:HB3	3:2D:195:ALA:HB2	1.98	0.46
7:2H:106:THR:HG22	7:2H:106:THR:O	2.16	0.46
7:2H:149:ARG:NH2	7:2H:154:PRO:HG2	2.30	0.46
9:2N:15:LEU:HD11	9:2N:55:VAL:CG1	2.46	0.46
9:2N:26:LEU:HA	9:2N:29:LYS:NZ	2.30	0.46
9:2N:76:SER:OG	9:2N:81:GLY:HA3	2.16	0.46
15:2T:68:TYR:C	15:2T:70:VAL:H	2.23	0.46
18:2W:10:VAL:HG12	18:2W:12:ILE:HG22	1.96	0.46
19:2X:26:TYR:OH	19:2X:88:LYS:HA	2.15	0.46
19:2X:56:THR:HG22	19:2X:79:ALA:CB	2.46	0.46
21:2Z:59:LEU:HD11	21:2Z:88:PHE:CD2	2.51	0.46
25:23:46:ASN:O	25:23:49:LYS:HB3	2.15	0.46
26:24:37:SER:C	26:24:38:LYS:HD2	2.41	0.46
28:26:16:CYS:SG	28:26:18:ARG:HG3	2.56	0.46
32:2a:331:C:H1'	32:2a:1416:A:H2	1.81	0.46
32:2a:779:C:H1'	32:2a:1484:U:C5	2.51	0.46
32:2a:809:G:O2'	32:2a:810:C:H5'	2.15	0.46
32:2a:1106:A:O2'	41:2j:37:PRO:O	2.29	0.46
32:2a:1469:G:O2'	32:2a:1470:A:P	2.74	0.46
33:2b:97:TRP:CE2	33:2b:173:ALA:HB2	2.51	0.46
34:2c:11:ARG:HE	34:2c:178:LEU:HA	1.80	0.46
35:2d:173:TRP:CZ3	35:2d:193:ASP:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:2f:30:LEU:C	37:2f:35:ALA:HB3	2.41	0.46
39:2h:109:ILE:CG1	39:2h:137:VAL:HB	2.46	0.46
40:2i:46:ALA:O	40:2i:49:PRO:HD2	2.15	0.46
41:2j:47:PHE:HD1	41:2j:47:PHE:N	2.12	0.46
42:2k:29:ILE:HA	42:2k:44:SER:HB3	1.98	0.46
42:2k:89:ALA:C	42:2k:91:ARG:H	2.23	0.46
47:2p:76:GLN:O	47:2p:76:GLN:HG3	2.16	0.46
48:2q:22:LEU:HD13	48:2q:41:LYS:HG3	1.96	0.46
1:1A:118:G:H4'	1:1A:148:A:H5'	1.98	0.46
1:1A:806:G:H4'	1:1A:1806:G:OP1	2.15	0.46
1:1A:1107:G:OP1	1:1A:1115:A:H4'	2.15	0.46
1:1A:1182:G:H5"	59:1A:4121:HOH:O	2.15	0.46
1:1A:1191:C:O2'	1:1A:1192:C:H5'	2.16	0.46
1:1A:1217:G:OP2	1:1A:1217:G:H2'	2.16	0.46
1:1A:1387:A:H2	1:1A:1441:U:HO2'	1.63	0.46
1:1A:1632:A:H2'	1:1A:1633:C:H6	1.80	0.46
1:1A:1854:G:C2'	1:1A:1855:A:H5'	2.46	0.46
1:1A:2067:G:O5'	27:15:19:ARG:HA	2.15	0.46
1:1A:2480:A:O2'	12:1Q:56:ARG:CD	2.63	0.46
3:1D:83:GLU:HB2	3:1D:92:ILE:CG1	2.46	0.46
6:1G:133:LEU:HD13	6:1G:135:LEU:HD11	1.98	0.46
7:1H:35:VAL:HG12	7:1H:37:VAL:CG2	2.46	0.46
8:1I:78:THR:HA	8:1I:143:SER:OG	2.16	0.46
18:1W:12:ILE:HG21	18:1W:17:VAL:HG11	1.98	0.46
20:1Y:46:LYS:HG2	20:1Y:60:PHE:HD2	1.80	0.46
26:14:36:CYS:HG	26:14:39:CYS:CB	2.29	0.46
30:18:22:VAL:HB	30:18:55:ALA:CB	2.46	0.46
32:1a:157:A:H5"	32:1a:158:C:OP2	2.16	0.46
32:1a:373:G:H5'	47:1p:5:ARG:NH1	2.31	0.46
32:1a:666:G:H1	32:1a:692:C:H42	1.63	0.46
32:1a:672:G:O2'	32:1a:673:C:H5'	2.16	0.46
32:1a:859:G:OP2	43:1l:12:ARG:NH2	2.47	0.46
32:1a:928:U:O2'	32:1a:929:G:H5'	2.15	0.46
32:1a:965:G:H1	32:1a:1200:C:H42	1.63	0.46
32:1a:1040:G:C2'	32:1a:1041:G:H5'	2.46	0.46
32:1a:1041:G:N2	41:1j:53:PRO:HG3	2.31	0.46
32:1a:1057:G:OP1	36:1e:60:TYR:HE2	1.98	0.46
32:1a:1195:A:C2	32:1a:1197:G:H1'	2.50	0.46
32:1a:1287:G:H5"	52:1u:4:GLY:HA3	1.96	0.46
1:2A:485:A:H2'	1:2A:486:C:H5'	1.98	0.46
1:2A:523:U:H2'	1:2A:524:G:C5'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:589:A:H4'	1:2A:854:G:OP1	2.15	0.46
1:2A:670:A:O2'	1:2A:671:G:H5'	2.15	0.46
1:2A:955:A:N6	12:2Q:11:LYS:O	2.49	0.46
1:2A:1161:C:H2'	1:2A:1162:G:C8	2.50	0.46
1:2A:1204:U:H2'	1:2A:1205:G:C5'	2.46	0.46
1:2A:1752:U:O2	1:2A:1787:U:H5'	2.16	0.46
1:2A:2092:A:H2'	1:2A:2093:G:C8	2.50	0.46
1:2A:2250:G:H5'	3:2D:251:GLY:CA	2.46	0.46
1:2A:2325:C:O2'	6:2G:160:VAL:HG22	2.16	0.46
1:2A:2620:U:H4'	1:2A:2620:U:OP1	2.16	0.46
1:2A:2834:C:C2'	1:2A:2835:A:H5'	2.45	0.46
4:2E:51:PHE:N	4:2E:75:VAL:HG21	2.31	0.46
5:2F:125:LEU:HD22	5:2F:199:TRP:HB2	1.97	0.46
6:2G:63:ILE:CG2	6:2G:141:PHE:CE2	2.98	0.46
10:2O:65:THR:HA	10:2O:82:ASN:OD1	2.15	0.46
11:2P:127:ALA:O	11:2P:148:LEU:HG	2.16	0.46
14:2S:83:LYS:O	14:2S:111:GLU:N	2.41	0.46
14:2S:85:VAL:HG22	14:2S:86:ALA:N	2.31	0.46
15:2T:16:ARG:HH12	15:2T:83:ILE:HB	1.80	0.46
15:2T:50:ILE:HG21	15:2T:102:ILE:HD11	1.96	0.46
17:2V:38:LEU:HD23	17:2V:51:VAL:HA	1.98	0.46
17:2V:43:GLU:OE1	17:2V:43:GLU:N	2.42	0.46
19:2X:2:LYS:HZ1	19:2X:38:GLU:CD	2.21	0.46
26:24:2:LYS:HB2	26:24:5:ILE:HD13	1.97	0.46
26:24:46:GLN:HE21	26:24:48:ARG:NH2	2.14	0.46
27:25:8:LYS:O	27:25:9:LYS:HG2	2.16	0.46
32:2a:67:G:H5'	32:2a:168:U:O4	2.16	0.46
32:2a:124:G:C4'	32:2a:125:A:H5'	2.36	0.46
32:2a:176:G:O2'	32:2a:178:G:N7	2.49	0.46
32:2a:211:U:O2	32:2a:211:U:O4'	2.34	0.46
32:2a:402:G:C5'	35:2d:5:ILE:HD11	2.44	0.46
32:2a:422:G:OP1	35:2d:36:ARG:NH1	2.45	0.46
32:2a:425:U:C1'	32:2a:426:A:H5"	2.45	0.46
32:2a:552:G:N3	32:2a:558:A:H2	2.14	0.46
32:2a:843:A:H2	32:2a:896:A:C4'	2.28	0.46
32:2a:954:G:P	45:2n:32:SER:H	2.37	0.46
32:2a:973:C:C2'	32:2a:974:A:H5'	2.45	0.46
32:2a:1287:G:H5'	52:2u:4:GLY:HA3	1.97	0.46
32:2a:1451:A:O2'	32:2a:1452:G:O4'	2.32	0.46
34:2c:188:LEU:HD11	34:2c:195:VAL:HG11	1.97	0.46
36:2e:106:PRO:HA	36:2e:109:ILE:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:2g:91:VAL:CG1	38:2g:96:GLN:HG2	2.45	0.46
41:2j:25:GLU:O	41:2j:29:ARG:HG2	2.15	0.46
43:2l:28:LYS:N	43:2l:29:GLY:CA	2.77	0.46
44:2m:23:TYR:HE2	44:2m:70:LEU:HD22	1.75	0.46
45:2n:29:ARG:HB3	45:2n:40:CYS:HB3	1.97	0.46
45:2n:54:PRO:O	45:2n:56:VAL:N	2.41	0.46
50:2s:14:HIS:O	50:2s:17:GLU:HB3	2.16	0.46
50:2s:39:THR:HG22	50:2s:40:ILE:O	2.16	0.46
1:1A:505:A:OP2	20:1Y:47:LYS:NZ	2.48	0.46
1:1A:1183:G:O3'	9:1N:24:GLY:HA3	2.15	0.46
1:1A:1857:C:H5'	1:1A:1992:A:H4'	1.98	0.46
1:1A:1866:C:H42	1:1A:1925:G:H1	1.62	0.46
1:1A:1956:G:H1'	1:1A:1985:G:N2	2.31	0.46
1:1A:1984:U:H4'	1:1A:1985:G:OP1	2.15	0.46
1:1A:2416:G:H5'	11:1P:75:ILE:HD13	1.98	0.46
1:1A:2427:C:H2'	1:1A:2428:C:H5'	1.98	0.46
1:1A:2630:C:H5"	4:1E:152:LYS:HG2	1.98	0.46
1:1A:2692:C:H5'	4:1E:11:MET:SD	2.56	0.46
1:1A:2748:G:O2'	1:1A:2749:G:H5'	2.16	0.46
1:1A:2853:G:C2'	1:1A:2854:G:H5'	2.45	0.46
1:1A:2886:G:O2'	1:1A:2887:U:H5'	2.15	0.46
3:1D:83:GLU:HB2	3:1D:92:ILE:HG13	1.97	0.46
3:1D:231:HIS:HD2	3:1D:249:PRO:HG3	1.76	0.46
4:1E:104:VAL:CG1	4:1E:188:VAL:HG13	2.46	0.46
5:1F:39:TRP:NE1	5:1F:43:LYS:HD3	2.30	0.46
5:1F:57:VAL:HG22	5:1F:58:ALA:H	1.80	0.46
5:1F:170:LEU:HD23	5:1F:173:VAL:HG23	1.97	0.46
7:1H:94:TYR:CD1	7:1H:107:VAL:HA	2.51	0.46
11:1P:93:GLY:H	11:1P:123:LEU:CD2	2.29	0.46
12:1Q:141:GLN:NE2	59:1Z:8101:HOH:O	2.44	0.46
13:1R:99:LYS:HA	13:1R:112:ALA:HA	1.98	0.46
15:1T:54:ARG:CA	15:1T:59:THR:HG22	2.43	0.46
20:1Y:60:PHE:N	20:1Y:60:PHE:CD1	2.84	0.46
32:1a:255:G:O2'	32:1a:256:G:H5'	2.15	0.46
32:1a:389:A:C2'	32:1a:390:G:H5'	2.45	0.46
32:1a:758:G:C2'	32:1a:759:G:H5'	2.46	0.46
32:1a:991:U:O5'	32:1a:991:U:H6	1.98	0.46
32:1a:1125:G:C2'	32:1a:1126:G:H5'	2.46	0.46
32:1a:1280:C:N4	38:1g:114:ARG:HD3	2.30	0.46
32:1a:1390:5MC:H2'	32:1a:1391:A:H5'	1.97	0.46
32:1a:1417:A:H2'	32:1a:1418:G:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:9:GLY:HA3	45:1n:49:HIS:HA	1.97	0.46
34:1c:58:GLU:HB3	41:1j:92:THR:HG21	1.97	0.46
35:1d:57:ARG:HH21	36:1e:107:ARG:HD3	1.76	0.46
36:1e:6:PHE:HD1	36:1e:36:ASP:HB3	1.79	0.46
38:1g:65:ALA:CB	38:1g:127:ALA:HB3	2.34	0.46
39:1h:20:TYR:HD1	39:1h:65:TYR:CD2	2.34	0.46
39:1h:81:HIS:ND1	39:1h:138:TRP:OXT	2.45	0.46
40:1i:110:GLU:O	40:1i:119:ALA:HB2	2.15	0.46
43:1l:70:ILE:CD1	43:1l:77:LEU:HD12	2.42	0.46
46:1o:40:SER:O	46:1o:44:LYS:HG3	2.14	0.46
49:1r:34:TYR:O	49:1r:73:ALA:HB2	2.16	0.46
50:1s:69:HIS:C	50:1s:70:LYS:HD2	2.41	0.46
1:2A:638:G:H2'	5:2F:44:ARG:NH1	2.31	0.46
1:2A:876:G:H22	1:2A:2457:G:H5'	1.80	0.46
1:2A:909:A:H3'	12:2Q:22:LYS:HD2	1.97	0.46
1:2A:921:G:O2'	1:2A:922:C:H5'	2.16	0.46
1:2A:1054:A:OP2	9:2N:37:LYS:NZ	2.39	0.46
1:2A:2091:G:H2'	1:2A:2092:A:O4'	2.16	0.46
1:2A:2217:C:C2'	1:2A:2218:U:H5'	2.45	0.46
1:2A:2511:U:H5"	1:2A:2512:C:OP2	2.16	0.46
1:2A:2652:G:H2'	1:2A:2653:G:H8	1.81	0.46
1:2A:2735:C:O5'	1:2A:2735:C:H6	1.99	0.46
2:2B:95:C:H2'	2:2B:96:U:H6	1.80	0.46
3:2D:77:ALA:O	3:2D:116:GLN:HG3	2.16	0.46
3:2D:94:LEU:HD11	3:2D:96:HIS:NE2	2.31	0.46
4:2E:102:VAL:HG22	4:2E:170:LEU:O	2.16	0.46
6:2G:33:ARG:NE	6:2G:162:THR:HG21	2.31	0.46
8:2I:80:PRO:CA	8:2I:145:VAL:HG23	2.40	0.46
9:2N:30:ILE:HG12	9:2N:52:VAL:HG11	1.97	0.46
14:2S:38:GLN:O	14:2S:38:GLN:HG3	2.16	0.46
20:2Y:28:LYS:N	20:2Y:38:ILE:O	2.41	0.46
26:24:48:ARG:O	26:24:50:VAL:N	2.48	0.46
27:25:29:THR:O	27:25:29:THR:HG23	2.16	0.46
28:26:37:ARG:HA	28:26:48:VAL:HA	1.98	0.46
30:28:14:VAL:HG21	30:28:22:VAL:HG12	1.97	0.46
30:28:33:ASN:OD1	30:28:36:LYS:HD2	2.16	0.46
32:2a:366:C:H2'	32:2a:367:G:C8	2.50	0.46
32:2a:496:U:O2'	32:2a:497:C:H5'	2.16	0.46
32:2a:698:G:H2'	32:2a:699:A:C8	2.51	0.46
32:2a:839:G:O2'	32:2a:840:C:H5'	2.16	0.46
32:2a:1078:U:OP1	32:2a:1091:G:N2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1089:G:H2'	32:2a:1090:C:C6	2.51	0.46
32:2a:1184:G:C2'	32:2a:1185:C:H5'	2.46	0.46
32:2a:1215:G:O2'	32:2a:1216:C:H5'	2.15	0.46
32:2a:1292:G:N2	32:2a:1309:C:N3	2.52	0.46
34:2c:186:PHE:HD1	34:2c:198:VAL:O	1.99	0.46
35:2d:95:GLY:O	35:2d:99:SER:OG	2.21	0.46
36:2e:148:VAL:HG11	36:2e:152:ARG:NH1	2.30	0.46
50:2s:38:SER:O	50:2s:71:LEU:HD13	2.16	0.46
1:1A:179:A:H2'	1:1A:180:C:C6	2.51	0.45
1:1A:559:C:O2'	16:1U:53:ARG:CG	2.64	0.45
1:1A:830:A:HO2'	1:1A:831:G:H8	1.64	0.45
1:1A:973:G:H3'	59:1A:4403:HOH:O	2.16	0.45
1:1A:1247:G:OP2	1:1A:1248:A:O2'	2.19	0.45
1:1A:1483:U:H4'	1:1A:1563:C:O3'	2.16	0.45
1:1A:1531:A:H2'	1:1A:1532:G:C8	2.45	0.45
1:1A:1956:G:H3'	1:1A:1983:5MC:HN41	1.81	0.45
1:1A:2144:G:H3'	1:1A:2145:G:C8	2.49	0.45
1:1A:2201:U:H2'	1:1A:2202:G:C1'	2.46	0.45
1:1A:2330:G:H4'	1:1A:2331:A:OP1	2.16	0.45
1:1A:2370:C:H42	1:1A:2439:G:H1	1.63	0.45
1:1A:2455:G:P	5:1F:68:LYS:HD2	2.55	0.45
1:1A:2693:U:C6	4:1E:11:MET:HE2	2.51	0.45
1:1A:2744:G:H3'	1:1A:2745:A:O4'	2.16	0.45
1:1A:2797:C:P	4:1E:41:LYS:NZ	2.89	0.45
5:1F:66:PRO:HD2	5:1F:70:THR:HG21	1.97	0.45
9:1N:91:LEU:C	9:1N:93:THR:H	2.24	0.45
10:1O:20:MET:O	10:1O:41:ALA:HB1	2.16	0.45
11:1P:52:GLU:HB3	11:1P:55:ARG:HE	1.79	0.45
18:1W:85:VAL:HG12	18:1W:86:LEU:N	2.30	0.45
30:18:36:LYS:O	59:18:204:HOH:O	2.21	0.45
32:1a:68:C:N4	32:1a:96:G:H1	2.14	0.45
32:1a:78:G:N1	32:1a:86:U:C2	2.83	0.45
32:1a:95:A:N7	59:1a:2088:HOH:O	2.36	0.45
32:1a:102:G:N1	51:1t:15:ARG:HG2	2.30	0.45
32:1a:156:A:H2'	32:1a:157:A:H8	1.81	0.45
32:1a:250:G:OP1	48:1q:67:LYS:O	2.34	0.45
32:1a:766:A:H4'	32:1a:1493:C:O4'	2.16	0.45
32:1a:799:A:N1	32:1a:1507:G:O2'	2.40	0.45
32:1a:907:G:O2'	32:1a:908:C:H5'	2.16	0.45
32:1a:986:C:O2	32:1a:1001:G:N1	2.42	0.45
32:1a:1023:U:O2'	32:1a:1024:A:H5'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1236:C:O2'	32:1a:1237:G:H5'	2.16	0.45
33:1b:111:ARG:HH21	33:1b:114:ARG:HG2	1.81	0.45
36:1e:78:HIS:HB2	39:1h:104:ARG:CG	2.45	0.45
36:1e:128:PRO:CA	36:1e:131:ILE:HG22	2.43	0.45
37:1f:52:ILE:HD13	37:1f:87:ARG:HE	1.81	0.45
38:1g:60:LYS:HA	38:1g:63:LYS:HB2	1.97	0.45
38:1g:103:TRP:NE1	38:1g:137:LYS:HG2	2.31	0.45
44:1m:40:ASN:OD1	44:1m:41:PRO:HD2	2.15	0.45
46:1o:63:ARG:HD2	46:1o:87:ILE:CD1	2.43	0.45
47:1p:62:VAL:HG22	47:1p:62:VAL:O	2.16	0.45
47:1p:74:LEU:HB3	47:1p:79:VAL:CG2	2.44	0.45
48:1q:83:ASP:OD1	48:1q:84:LEU:HG	2.17	0.45
1:2A:300:C:H1'	1:2A:301:A:OP1	2.16	0.45
1:2A:450:G:O2'	1:2A:451:G:H5'	2.16	0.45
1:2A:859:U:H1'	1:2A:1271:A:H1'	1.98	0.45
1:2A:1056:G:OP1	16:2U:75:ASN:HB2	2.16	0.45
1:2A:1077:A:O3'	31:29:16:VAL:HG11	2.16	0.45
1:2A:1110:U:H1'	1:2A:1111:U:O5'	2.15	0.45
1:2A:1278:C:O2'	1:2A:1279:U:H5'	2.16	0.45
1:2A:1821:A:H4'	3:2D:206:LEU:HB2	1.97	0.45
1:2A:2324:C:O4'	6:2G:40:ASN:ND2	2.49	0.45
1:2A:2332:G:O2'	1:2A:2333:A:P	2.71	0.45
1:2A:2359:U:H2'	1:2A:2360:G:C5'	2.46	0.45
1:2A:2663:C:N4	1:2A:2679:G:H1	2.06	0.45
1:2A:2761:A:O4'	7:2H:63:SER:HA	2.16	0.45
1:2A:2871:G:O2'	1:2A:2872:C:H5'	2.17	0.45
2:2B:57:A:H2'	2:2B:58:A:H5'	1.98	0.45
5:2F:116:ASP:OD1	5:2F:119:ARG:NH2	2.49	0.45
6:2G:11:TYR:CD2	6:2G:12:TYR:HD1	2.35	0.45
6:2G:55:LYS:O	6:2G:58:GLN:HB3	2.16	0.45
6:2G:60:LEU:O	6:2G:63:ILE:HB	2.17	0.45
7:2H:137:ASP:OD2	7:2H:139:GLN:NE2	2.49	0.45
10:2O:103:ALA:HA	10:2O:122:LEU:O	2.17	0.45
11:2P:130:PHE:CE2	11:2P:145:PRO:CB	2.99	0.45
14:2S:46:VAL:HG12	14:2S:47:THR:O	2.16	0.45
17:2V:4:ILE:CG2	17:2V:11:GLN:HB3	2.46	0.45
17:2V:65:GLY:CA	17:2V:91:TYR:CE1	2.98	0.45
18:2W:58:ALA:HB1	18:2W:64:MET:HB2	1.97	0.45
18:2W:106:ILE:C	18:2W:107:LEU:HD12	2.41	0.45
21:2Z:94:GLU:O	21:2Z:130:PRO:HD3	2.16	0.45
25:23:4:LEU:N	25:23:37:LEU:O	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1189:2MG:H2'	32:2a:1190:C:H6	1.81	0.45
33:2b:198:ASP:OD1	39:2h:68:ARG:NH2	2.40	0.45
35:2d:102:ASP:HB2	35:2d:118:ARG:HG2	1.98	0.45
35:2d:116:GLN:NE2	35:2d:157:LEU:HD21	2.31	0.45
35:2d:173:TRP:CG	35:2d:189:PRO:HG3	2.51	0.45
37:2f:9:VAL:CG2	37:2f:87:ARG:HB2	2.47	0.45
38:2g:16:LEU:HD13	40:2i:41:VAL:O	2.16	0.45
50:2s:50:ALA:HA	50:2s:58:VAL:C	2.40	0.45
1:1A:559:C:O3'	16:1U:53:ARG:HD3	2.15	0.45
1:1A:895:A:N3	25:13:21:ALA:HB1	2.31	0.45
1:1A:998:G:H5"	12:1Q:13:GLN:OE1	2.17	0.45
1:1A:1252:C:C2'	1:1A:1253:G:H5'	2.46	0.45
1:1A:1357:U:O4	19:1X:60:ARG:HD3	2.16	0.45
1:1A:2127:G:C4	1:1A:2128:C:H1'	2.50	0.45
1:1A:2261:G:H8	1:1A:2507:C:H5"	1.80	0.45
1:1A:2615:U:C2'	1:1A:2616:PSU:H5"	2.46	0.45
1:1A:2643:A:O2'	1:1A:2820:G:O2'	2.07	0.45
3:1D:83:GLU:OE1	3:1D:104:TYR:OH	2.32	0.45
3:1D:92:ILE:HA	3:1D:106:ILE:HA	1.98	0.45
6:1G:29:TRP:HE3	6:1G:33:ARG:NH1	2.14	0.45
11:1P:112:LEU:HD21	11:1P:114:ILE:CD1	2.46	0.45
14:1S:31:SER:OG	14:1S:34:HIS:O	2.23	0.45
17:1V:13:ARG:NH1	59:1V:314:HOH:O	2.32	0.45
19:1X:40:LYS:HG3	19:1X:51:VAL:HB	1.97	0.45
22:10:40:GLN:HA	59:10:209:HOH:O	2.16	0.45
32:1a:116:G:C2'	32:1a:117:C:H5'	2.46	0.45
32:1a:680:A:H2'	32:1a:681:U:C6	2.51	0.45
32:1a:1251:A:H2	32:1a:1294:G:N3	2.14	0.45
32:1a:1382:C:C4'	32:1a:1383:5MC:H5"	2.38	0.45
35:1d:31:CYS:SG	35:1d:32:ALA:N	2.89	0.45
35:1d:105:VAL:HG13	35:1d:110:PHE:HD2	1.81	0.45
35:1d:173:TRP:HB3	35:1d:187:ARG:CG	2.46	0.45
39:1h:103:VAL:HG21	39:1h:109:ILE:C	2.41	0.45
44:1m:58:GLU:O	44:1m:61:GLU:N	2.37	0.45
46:1o:66:LEU:O	46:1o:69:TYR:HB3	2.16	0.45
47:1p:57:ARG:NE	47:1p:79:VAL:O	2.47	0.45
51:1t:19:SER:O	51:1t:22:ARG:N	2.49	0.45
1:2A:764:A:H2'	1:2A:765:C:H5'	1.99	0.45
1:2A:829:A:H1'	1:2A:1809:U:H1'	1.98	0.45
1:2A:951:G:HO2'	12:2Q:67:ARG:HH21	1.63	0.45
1:2A:988:G:H5"	1:2A:989:A:O5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1077:A:H2	1:2A:1167:G:H22	1.62	0.45
1:2A:1132:G:H1	1:2A:1147:C:H42	1.63	0.45
1:2A:1413:G:H5'	29:27:25:PRO:HG3	1.97	0.45
1:2A:2827:G:H2'	1:2A:2828:G:C8	2.51	0.45
2:2B:37:C:H2'	2:2B:38:C:H5'	1.97	0.45
3:2D:172:TYR:CE1	3:2D:186:HIS:HD2	2.32	0.45
5:2F:64:ILE:HD11	5:2F:75:HIS:HB2	1.98	0.45
8:2I:92:VAL:HG22	8:2I:120:ILE:HB	1.98	0.45
10:2O:10:VAL:HG22	10:2O:17:ARG:O	2.17	0.45
11:2P:112:LEU:HD22	11:2P:127:ALA:HB1	1.94	0.45
12:2Q:38:GLU:HG3	12:2Q:127:ILE:HB	1.96	0.45
13:2R:2:ARG:O	13:2R:3:HIS:C	2.59	0.45
13:2R:113:LEU:HD12	13:2R:113:LEU:C	2.42	0.45
18:2W:97:LYS:O	18:2W:99:ARG:HG3	2.17	0.45
18:2W:97:LYS:O	18:2W:99:ARG:N	2.49	0.45
21:2Z:43:GLU:O	21:2Z:47:VAL:HG23	2.16	0.45
21:2Z:73:GLN:O	21:2Z:87:ASP:HB2	2.16	0.45
26:24:57:GLU:HA	26:24:58:ARG:HA	1.65	0.45
32:2a:314:G:H1	32:2a:331:C:H42	1.64	0.45
32:2a:935:U:H4'	50:2s:79:THR:OG1	2.17	0.45
32:2a:945:5MC:OP1	32:2a:947:A:H5'	2.16	0.45
32:2a:1043:C:H5	34:2c:2:GLY:HA2	1.77	0.45
33:2b:164:VAL:HG12	33:2b:165:VAL:N	2.31	0.45
33:2b:187:LEU:HB2	33:2b:201:ILE:O	2.15	0.45
33:2b:201:ILE:HG21	33:2b:214:ILE:HD12	1.98	0.45
35:2d:63:LYS:HD3	35:2d:197:PRO:O	2.17	0.45
39:2h:9:MET:SD	39:2h:32:LYS:HD3	2.56	0.45
43:2l:58:VAL:O	43:2l:65:GLU:HG3	2.16	0.45
46:2o:4:THR:O	46:2o:5:LYS:C	2.59	0.45
48:2q:56:VAL:HG12	48:2q:77:VAL:CG2	2.46	0.45
51:2t:20:LEU:O	51:2t:23:ARG:HB3	2.16	0.45
1:1A:302:C:H42	1:1A:384:G:H1	1.64	0.45
1:1A:706:G:C5'	5:1F:99:TYR:CE2	2.98	0.45
1:1A:916:A:H4'	12:1Q:6:ARG:O	2.16	0.45
1:1A:1867:C:OP1	32:1a:768:C:H4'	2.16	0.45
1:1A:2300:G:O2'	1:1A:2394:G:O2'	2.21	0.45
1:1A:2375:C:H2'	1:1A:2376:G:C5'	2.47	0.45
3:1D:30:GLU:O	3:1D:31:LYS:C	2.59	0.45
6:1G:104:GLU:O	6:1G:108:ASN:ND2	2.44	0.45
7:1H:86:GLU:CD	7:1H:130:ARG:HD2	2.41	0.45
10:1O:25:LEU:HD11	10:1O:40:VAL:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1P:32:THR:HG22	59:1P:316:HOH:O	2.16	0.45
15:1T:77:PRO:HB2	15:1T:80:SER:HB2	1.97	0.45
19:1X:5:TYR:CE1	24:12:30:ARG:HG3	2.51	0.45
19:1X:39:ILE:O	19:1X:40:LYS:C	2.58	0.45
23:11:51:VAL:HG11	23:11:74:VAL:HG21	1.98	0.45
28:16:13:CYS:O	28:16:17:LYS:N	2.44	0.45
32:1a:938:U:O2'	32:1a:1205:C:H5"	2.17	0.45
32:1a:1038:A:C2'	34:1c:156:ARG:HD2	2.47	0.45
32:1a:1082:G:H2'	32:1a:1083:C:C6	2.51	0.45
32:1a:1348:G:C2'	32:1a:1349:C:H5'	2.46	0.45
33:1b:92:TYR:CE1	33:1b:151:GLY:CA	2.99	0.45
34:1c:5:ILE:HD11	45:1n:49:HIS:CE1	2.52	0.45
34:1c:111:LEU:HD21	34:1c:144:SER:O	2.16	0.45
34:1c:114:PRO:HD3	34:1c:184:TYR:O	2.15	0.45
35:1d:126:ILE:HG22	35:1d:127:THR:N	2.31	0.45
36:1e:122:GLU:OE1	36:1e:126:ARG:HB2	2.17	0.45
37:1f:19:LEU:CG	37:1f:59:TYR:HE2	2.30	0.45
38:1g:78:ARG:HB2	38:1g:156:TRP:CZ3	2.52	0.45
39:1h:109:ILE:HA	39:1h:121:ASP:OD2	2.16	0.45
42:1k:79:SER:O	42:1k:80:VAL:HG13	2.17	0.45
44:1m:102:ARG:HD3	44:1m:106:ASN:HD22	1.81	0.45
46:1o:8:LYS:HG2	46:1o:12:ILE:HD11	1.98	0.45
47:1p:40:ASP:N	47:1p:48:TRP:O	2.50	0.45
48:1q:9:VAL:HG12	48:1q:10:VAL:N	2.32	0.45
50:1s:3:ARG:HE	50:1s:7:LYS:HB2	1.81	0.45
50:1s:17:GLU:HG2	50:1s:21:GLU:OE2	2.17	0.45
50:1s:37:ARG:HG3	50:1s:38:SER:H	1.81	0.45
50:1s:62:ILE:H	50:1s:62:ILE:HD12	1.81	0.45
51:1t:28:ALA:O	51:1t:31:SER:OG	2.25	0.45
1:2A:347:A:N6	1:2A:361:G:O2'	2.46	0.45
1:2A:921:G:H2'	1:2A:922:C:O4'	2.16	0.45
1:2A:941:A:H4'	1:2A:942:C:OP1	2.16	0.45
1:2A:961:G:C2'	1:2A:962:A:H5"	2.47	0.45
1:2A:1122:A:H2'	1:2A:1123:U:C2	2.51	0.45
1:2A:1306:C:OP2	18:2W:83:LYS:NZ	2.41	0.45
1:2A:1433:G:O2'	1:2A:1434:G:H5'	2.15	0.45
1:2A:1455:G:O2'	1:2A:1456:C:H5'	2.15	0.45
1:2A:1565:U:H2'	1:2A:1566:G:C5'	2.44	0.45
1:2A:1879:G:O2'	1:2A:1880:G:H5'	2.17	0.45
1:2A:2417:U:C2	11:2P:72:PRO:HG2	2.51	0.45
1:2A:2431:C:OP2	30:28:32:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2479:G:N2	1:2A:2492:G:H1'	2.31	0.45
1:2A:2506:G:H2'	1:2A:2507:C:C6	2.51	0.45
1:2A:2636:G:H2'	1:2A:2637:C:O4'	2.17	0.45
1:2A:2714:C:H2'	1:2A:2715:C:H5'	1.97	0.45
1:2A:2754:C:OP1	31:29:35:ARG:NE	2.49	0.45
1:2A:2778:G:C2'	1:2A:2779:C:H5'	2.46	0.45
1:2A:2826:G:OP1	13:2R:42:LYS:NZ	2.41	0.45
2:2B:32:C:H2'	2:2B:33:G:O4'	2.16	0.45
4:2E:77:ILE:HG22	4:2E:78:LEU:N	2.31	0.45
7:2H:71:LEU:O	7:2H:71:LEU:HD23	2.15	0.45
7:2H:146:ALA:O	7:2H:150:ALA:N	2.49	0.45
8:2I:9:LEU:O	8:2I:10:GLU:C	2.59	0.45
8:2I:77:LEU:HD12	8:2I:101:LEU:HD23	1.98	0.45
8:2I:98:ALA:HA	8:2I:101:LEU:HB2	1.99	0.45
9:2N:27:ALA:HB3	9:2N:106:MET:CE	2.46	0.45
10:2O:79:PHE:N	10:2O:79:PHE:CD1	2.84	0.45
10:2O:98:VAL:HG22	10:2O:117:LEU:O	2.15	0.45
12:2Q:93:TYR:N	12:2Q:93:TYR:CD1	2.84	0.45
14:2S:111:GLU:O	14:2S:112:PHE:HB3	2.17	0.45
20:2Y:55:TYR:N	20:2Y:56:PRO:HD3	2.31	0.45
24:22:17:SER:H	24:22:20:GLU:CD	2.24	0.45
24:22:46:GLN:OE1	24:22:49:LYS:HD2	2.17	0.45
32:2a:442:G:C6	32:2a:470:G:H1'	2.52	0.45
32:2a:468:C:H3'	32:2a:469:G:H2'	1.97	0.45
32:2a:767:C:C2'	32:2a:768:C:H5'	2.47	0.45
32:2a:929:G:O2'	32:2a:930:U:H5'	2.16	0.45
32:2a:1043:C:H4'	41:2j:52:GLY:N	2.31	0.45
32:2a:1043:C:H5"	41:2j:51:ARG:HB3	1.99	0.45
32:2a:1303:C:O5'	32:2a:1304:C:H2'	2.16	0.45
33:2b:110:GLN:O	33:2b:113:HIS:N	2.49	0.45
34:2c:72:LYS:N	34:2c:73:PRO:HD3	2.31	0.45
34:2c:87:LEU:O	34:2c:91:LEU:N	2.49	0.45
36:2e:100:VAL:CG1	36:2e:107:ARG:HG3	2.46	0.45
44:2m:49:THR:OG1	44:2m:52:GLU:N	2.36	0.45
49:2r:38:GLU:O	49:2r:41:LYS:HG2	2.16	0.45
50:2s:50:ALA:O	50:2s:57:HIS:HB3	2.16	0.45
1:1A:773:A:N3	3:1D:9:TYR:CE2	2.84	0.45
1:1A:921:G:O2'	1:1A:922:C:H5'	2.17	0.45
1:1A:934:C:HO2'	1:1A:935:C:P	2.30	0.45
1:1A:1084:G:C2'	1:1A:1085:C:H5'	2.46	0.45
1:1A:1561:U:O2	1:1A:1603:C:O2'	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1699:G:C1’	1:1A:1700:A:OP2	2.62	0.45
1:1A:1786:G:H4’	1:1A:1788:G:O4’	2.16	0.45
1:1A:1973:A:H5’	10:1O:55:GLY:O	2.16	0.45
1:1A:2221:C:OP2	23:11:50:ARG:NH2	2.47	0.45
1:1A:2538:C:H2’	1:1A:2539:U:O4’	2.16	0.45
3:1D:142:VAL:HG23	3:1D:192:THR:C	2.42	0.45
6:1G:83:ARG:O	6:1G:86:MET:HB2	2.17	0.45
7:1H:11:VAL:HG21	7:1H:50:VAL:HG23	1.99	0.45
10:1O:64:ARG:NH1	10:1O:81:ASP:OD2	2.46	0.45
11:1P:85:LEU:HG	11:1P:115:LEU:O	2.16	0.45
18:1W:38:TYR:CD1	18:1W:38:TYR:N	2.83	0.45
22:10:46:LYS:NZ	22:10:75:LEU:O	2.41	0.45
26:14:8:LYS:HE3	26:14:10:VAL:HG11	1.96	0.45
26:14:32:TYR:N	26:14:32:TYR:HD1	2.14	0.45
26:14:59:PHE:CD1	50:1s:45:VAL:HG21	2.51	0.45
28:16:2:ALA:HB1	28:16:6:ARG:O	2.17	0.45
29:17:17:GLY:O	29:17:21:ARG:HG2	2.16	0.45
31:19:12:ASP:OD1	31:19:13:LYS:HG2	2.17	0.45
32:1a:430:U:H2’	32:1a:431:C:C6	2.52	0.45
32:1a:581:G:C2’	32:1a:582:U:H5’	2.41	0.45
32:1a:603:U:O2	35:1d:133:VAL:HA	2.17	0.45
32:1a:701:C:H4’	42:1k:117:ASN:ND2	2.32	0.45
32:1a:833:G:O2’	32:1a:834:C:H5’	2.16	0.45
32:1a:959:U:H4’	45:1n:21:TYR:CE2	2.51	0.45
32:1a:1200:C:OP2	45:1n:9:LYS:NZ	2.50	0.45
32:1a:1298:G:N1	32:1a:1300:A:H5”	2.31	0.45
32:1a:1337:G:H2’	32:1a:1338:G:H8	1.82	0.45
35:1d:178:VAL:O	35:1d:179:GLU:HB2	2.17	0.45
37:1f:96:PRO:HB3	49:1r:30:ASP:CG	2.41	0.45
38:1g:17:VAL:HG12	38:1g:18:TYR:CE1	2.51	0.45
38:1g:97:GLN:O	38:1g:101:LEU:HG	2.16	0.45
42:1k:30:VAL:HG11	42:1k:65:ALA:HA	1.98	0.45
43:1l:79:GLU:O	43:1l:80:HIS:CB	2.65	0.45
43:1l:105:TYR:C	43:1l:107:ALA:H	2.23	0.45
44:1m:108:ARG:CD	44:1m:112:GLY:O	2.64	0.45
46:1o:37:ASN:O	46:1o:41:GLU:HG2	2.16	0.45
47:1p:8:ARG:O	47:1p:9:PHE:HD1	1.99	0.45
47:1p:49:LEU:HD22	47:1p:73:LEU:CD1	2.46	0.45
1:2A:251:C:H2’	1:2A:252:C:O4’	2.16	0.45
1:2A:739:C:C2’	1:2A:740:U:H5’	2.46	0.45
1:2A:927:G:H2’	1:2A:928:G:O4’	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1070:G:O2'	59:2A:3780:HOH:O	2.07	0.45
1:2A:1198:C:C5'	16:2U:76:TYR:HE2	2.29	0.45
1:2A:1246:C:H42	1:2A:1288:G:H1	1.64	0.45
1:2A:1516:G:N2	1:2A:1568:U:O4	2.50	0.45
1:2A:1549:C:H2'	1:2A:1550:C:C6	2.51	0.45
1:2A:1705:U:C2'	1:2A:1706:C:H5'	2.46	0.45
1:2A:1898:A:H3'	1:2A:1899:G:O4'	2.17	0.45
1:2A:1954:G:H2'	1:2A:1955:C:O4'	2.16	0.45
1:2A:2102:C:O2'	1:2A:2103:A:H5'	2.16	0.45
1:2A:2135:A:H2'	1:2A:2136:G:C1'	2.46	0.45
1:2A:2415:C:N4	1:2A:2424:G:H1	2.14	0.45
1:2A:2520:G:C2'	1:2A:2521:C:H5'	2.47	0.45
1:2A:2568:G:H8	1:2A:2568:G:O5'	2.00	0.45
5:2F:178:PRO:HB2	5:2F:201:VAL:CG2	2.46	0.45
6:2G:70:VAL:HG22	6:2G:90:LEU:CD2	2.47	0.45
6:2G:173:LEU:HA	6:2G:176:LEU:HD12	1.98	0.45
7:2H:154:PRO:HG3	7:2H:162:ILE:O	2.17	0.45
8:2I:75:LEU:HD23	8:2I:75:LEU:C	2.42	0.45
9:2N:43:THR:OG1	16:2U:64:ARG:NH1	2.50	0.45
12:2Q:47:ILE:HG23	12:2Q:104:PHE:HZ	1.82	0.45
12:2Q:137:TYR:CB	21:2Z:76:LEU:HD11	2.42	0.45
13:2R:22:ARG:O	13:2R:25:ALA:N	2.49	0.45
17:2V:21:ARG:NE	17:2V:91:TYR:HE2	2.14	0.45
21:2Z:136:PHE:O	21:2Z:137:ILE:HG13	2.16	0.45
32:2a:241:C:H2'	32:2a:242:A:H5'	1.98	0.45
32:2a:340:A:H4'	32:2a:341:C:OP2	2.16	0.45
32:2a:365:C:N4	32:2a:388:G:H1	2.11	0.45
32:2a:428:A:H3'	32:2a:429:C:C6	2.51	0.45
32:2a:536:U:H4'	43:2l:87:GLY:N	2.31	0.45
32:2a:599:C:H2'	32:2a:600:G:O4'	2.16	0.45
32:2a:1000:G:H2'	32:2a:1001:G:O5'	2.16	0.45
32:2a:1134:A:N3	41:2j:39:PRO:HG3	2.31	0.45
34:2c:148:GLY:O	34:2c:203:PHE:N	2.50	0.45
37:2f:40:VAL:HG23	37:2f:63:TYR:CD1	2.52	0.45
38:2g:31:MET:SD	38:2g:36:LYS:HB2	2.57	0.45
40:2i:99:LEU:HD22	40:2i:101:PHE:HE2	1.82	0.45
43:2l:40:VAL:O	43:2l:41:ARG:HB3	2.17	0.45
1:1A:11:U:H2'	1:1A:12:A:H5'	1.98	0.45
1:1A:72:A:H5'	1:1A:73:G:O4'	2.17	0.45
1:1A:127:C:H4'	1:1A:1394:A:O4'	2.16	0.45
1:1A:241:C:H2'	1:1A:242:G:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:336:C:O2'	1:1A:337:A:H5'	2.17	0.45
1:1A:732:G:O6	29:17:12:ARG:HG3	2.17	0.45
1:1A:872:U:OP1	1:1A:2439:G:H3'	2.17	0.45
1:1A:1102:A:N1	1:1A:1126:U:O4	2.49	0.45
1:1A:1613:A:P	3:1D:86:PRO:HB3	2.57	0.45
1:1A:1618:A:O3'	59:1A:4369:HOH:O	2.21	0.45
1:1A:1803:A:C5	1:1A:1859:A:H1'	2.52	0.45
1:1A:1936:5MU:H2'	1:1A:1937:A:C8	2.51	0.45
1:1A:2293:G:H4'	1:1A:2400:G:O2'	2.16	0.45
1:1A:2402:G:N2	1:1A:2440:G:O4'	2.50	0.45
1:1A:2647:U:H4'	4:1E:80:GLU:CD	2.41	0.45
1:1A:2743:G:N7	59:1A:4533:HOH:O	2.36	0.45
1:1A:2797:C:OP1	4:1E:41:LYS:NZ	2.45	0.45
1:1A:2873:G:OP1	15:1T:119:LYS:HD2	2.16	0.45
3:1D:262:ARG:O	3:1D:264:LYS:N	2.48	0.45
6:1G:111:LEU:HB3	6:1G:117:PHE:CZ	2.52	0.45
8:1I:68:LEU:O	8:1I:69:LYS:C	2.59	0.45
10:1O:101:PRO:HA	10:1O:120:GLU:O	2.16	0.45
11:1P:81:GLN:HB3	11:1P:106:LEU:CD1	2.46	0.45
12:1Q:21:THR:HG22	12:1Q:23:GLY:N	2.32	0.45
12:1Q:43:THR:O	12:1Q:46:GLN:N	2.49	0.45
13:1R:117:VAL:HG12	13:1R:118:GLU:N	2.31	0.45
15:1T:117:ASP:OD2	15:1T:120:ARG:NE	2.49	0.45
21:1Z:30:ASN:CG	21:1Z:33:LEU:HD23	2.42	0.45
24:12:36:ARG:HD3	59:12:104:HOH:O	2.16	0.45
32:1a:20:C:P	36:1e:125:SER:OG	2.74	0.45
32:1a:30:G:C2'	32:1a:31:U:H5'	2.47	0.45
32:1a:32:G:H5'	32:1a:302:G:N2	2.31	0.45
32:1a:554:G:O3'	32:1a:803:A:H2'	2.16	0.45
32:1a:608:C:H2'	32:1a:609:G:H8	1.81	0.45
32:1a:753:G:H1	32:1a:794:C:N4	2.12	0.45
32:1a:769:G:O2'	32:1a:770:G:H5'	2.17	0.45
32:1a:1063:A:C5'	36:1e:16:THR:HG21	2.47	0.45
32:1a:1137:G:O2'	32:1a:1138:G:H5'	2.16	0.45
32:1a:1230:A:H2'	32:1a:1231:C:H5'	1.98	0.45
39:1h:82:HIS:O	39:1h:137:VAL:HG13	2.17	0.45
42:1k:73:MET:HG2	42:1k:103:LEU:HD21	1.98	0.45
43:1l:7:ILE:O	43:1l:11:VAL:HG23	2.16	0.45
44:1m:3:ARG:N	44:1m:8:GLU:OE1	2.42	0.45
49:1r:66:LEU:HG	49:1r:70:ILE:CD1	2.47	0.45
50:1s:3:ARG:HH12	50:1s:10:PHE:CB	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:245:A:H2'	1:2A:246:G:O4'	2.16	0.45
1:2A:253:A:H1'	1:2A:254:G:O4'	2.17	0.45
1:2A:275:C:C3'	8:2I:42:SER:HG	2.30	0.45
1:2A:402:C:H2'	1:2A:403:C:C6	2.52	0.45
1:2A:418:C:H5"	1:2A:435:C:H5"	1.99	0.45
1:2A:424:G:OP1	1:2A:2111:G:O2'	2.33	0.45
1:2A:538:A:H1'	1:2A:603:C:O2'	2.16	0.45
1:2A:951:G:OP1	12:2Q:26:TYR:OH	2.31	0.45
1:2A:1185:U:P	9:2N:63:THR:HG21	2.56	0.45
1:2A:1715:A:H2'	1:2A:1715:A:N3	2.31	0.45
1:2A:1799:G:H1	1:2A:2004:C:H42	1.64	0.45
1:2A:1973:A:O2'	1:2A:2571:C:O2'	2.33	0.45
1:2A:2071:C:H1'	4:2E:156:MET:HE3	1.98	0.45
1:2A:2289:A:C3'	1:2A:2290:G:H5"	2.46	0.45
1:2A:2346:A:O2'	1:2A:2347:A:P	2.75	0.45
1:2A:2522:U:O2	4:2E:139:GLY:HA3	2.16	0.45
1:2A:2755:C:OP2	1:2A:2767:C:N4	2.50	0.45
1:2A:2769:A:OP2	31:29:20:HIS:HA	2.17	0.45
1:2A:2785:C:C2'	1:2A:2786:C:H5'	2.46	0.45
1:2A:2788:A:H4'	1:2A:2790:A:OP1	2.16	0.45
3:2D:145:VAL:HG22	3:2D:191:ALA:HB1	1.98	0.45
6:2G:28:VAL:HG23	6:2G:29:TRP:H	1.81	0.45
7:2H:77:LYS:HD3	7:2H:81:GLU:HB2	1.97	0.45
11:2P:20:GLY:C	11:2P:21:ARG:HD2	2.41	0.45
15:2T:27:THR:O	15:2T:89:VAL:HG22	2.16	0.45
19:2X:54:VAL:HA	19:2X:80:ILE:O	2.16	0.45
29:27:21:ARG:O	29:27:28:ARG:N	2.50	0.45
32:2a:121:G:O2'	48:2q:2:PRO:O	2.34	0.45
32:2a:372:G:C5'	47:2p:5:ARG:HD2	2.46	0.45
32:2a:385:A:H2'	32:2a:386:C:H5'	1.99	0.45
32:2a:460:G:H2'	32:2a:461:G:C8	2.49	0.45
32:2a:593:A:H8	32:2a:593:A:O5'	1.99	0.45
32:2a:630:U:H2'	32:2a:631:C:C6	2.52	0.45
32:2a:703:C:H41	49:2r:71:LYS:HE2	1.81	0.45
32:2a:783:G:H2'	32:2a:784:G:H5'	1.98	0.45
32:2a:951:G:N3	41:2j:54:PHE:HE1	2.13	0.45
32:2a:1270:A:C1'	32:2a:1335:G:H4'	2.46	0.45
32:2a:1334:C:OP1	52:2u:3:LYS:HE2	2.16	0.45
32:2a:1451:A:H2'	32:2a:1452:G:H8	1.80	0.45
38:2g:95:ARG:HG2	38:2g:99:LEU:CG	2.46	0.45
41:2j:16:LEU:HD23	41:2j:94:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2j:43:ARG:O	41:2j:67:THR:N	2.34	0.45
41:2j:50:ILE:HA	41:2j:60:ARG:HD3	1.98	0.45
49:2r:26:LEU:HD11	49:2r:42:ARG:CD	2.46	0.45
50:2s:66:MET:O	50:2s:69:HIS:HB2	2.16	0.45
1:1A:434:G:H2'	1:1A:435:C:H5'	1.98	0.45
1:1A:1182:G:H21	9:1N:106:MET:HE2	1.82	0.45
1:1A:1473:C:O2'	1:1A:1474:G:H5'	2.17	0.45
1:1A:1638:G:H2'	1:1A:1639:G:C8	2.51	0.45
1:1A:1652:C:H4'	1:1A:1653:A:C5'	2.47	0.45
1:1A:1661:A:H4'	1:1A:1662:C:OP2	2.17	0.45
1:1A:1726:U:O2'	1:1A:1727:G:H5'	2.16	0.45
1:1A:2116:C:H2'	1:1A:2117:U:C6	2.52	0.45
1:1A:2247:C:H2'	1:1A:2248:G:C5'	2.47	0.45
1:1A:2374:C:C2'	1:1A:2375:C:H5'	2.46	0.45
1:1A:2478:C:H2'	1:1A:2479:G:H5'	1.99	0.45
1:1A:2593:G:O2'	1:1A:2594:G:H5'	2.17	0.45
1:1A:2604:U:H2'	1:1A:2605:C:H6	1.82	0.45
1:1A:2604:U:H2'	1:1A:2605:C:C6	2.51	0.45
1:1A:2658:U:H2'	1:1A:2659:C:C6	2.51	0.45
1:1A:2781:C:H2'	1:1A:2782:G:H5'	1.98	0.45
3:1D:109:ASP:N	3:1D:195:ALA:O	2.41	0.45
5:1F:53:THR:CG2	5:1F:56:GLU:HG3	2.44	0.45
6:1G:16:ARG:CZ	6:1G:31:VAL:HG21	2.46	0.45
6:1G:18:GLU:O	6:1G:21:ARG:HG2	2.17	0.45
6:1G:46:ALA:O	6:1G:51:ARG:HA	2.16	0.45
7:1H:10:PRO:O	7:1H:12:PRO:HD3	2.16	0.45
18:1W:12:ILE:HA	59:1W:3112:HOH:O	2.15	0.45
21:1Z:31:ARG:HG3	21:1Z:32:HIS:CD2	2.51	0.45
26:14:26:SER:OG	26:14:27:THR:N	2.44	0.45
32:1a:14:U:O2	32:1a:892:A:H3'	2.16	0.45
32:1a:306:G:C5'	47:1p:31:LYS:HB2	2.45	0.45
32:1a:691:C:OP1	42:1k:85:ARG:NH1	2.50	0.45
32:1a:972:A:H2'	32:1a:972:A:N3	2.32	0.45
32:1a:1146:C:C2'	32:1a:1147:G:H5'	2.47	0.45
33:1b:12:GLU:O	33:1b:14:GLY:N	2.49	0.45
33:1b:18:GLY:CA	33:1b:42:ILE:HD12	2.47	0.45
34:1c:133:ALA:HA	34:1c:136:GLN:CB	2.44	0.45
35:1d:119:GLN:O	35:1d:123:HIS:N	2.37	0.45
35:1d:155:LEU:O	35:1d:158:ILE:HG12	2.16	0.45
36:1e:16:THR:O	36:1e:17:ALA:HB2	2.16	0.45
36:1e:18:ARG:HE	36:1e:20:GLN:NE2	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:1g:18:TYR:CD1	38:1g:18:TYR:N	2.85	0.45
38:1g:75:VAL:HG12	38:1g:88:PRO:HB3	1.97	0.45
41:1j:7:LYS:N	41:1j:97:GLU:O	2.36	0.45
41:1j:9:ARG:HG2	41:1j:69:ASN:OD1	2.17	0.45
41:1j:92:THR:O	41:1j:94:VAL:N	2.49	0.45
43:1l:35:GLY:HA2	43:1l:59:ARG:O	2.17	0.45
43:1l:90:VAL:O	43:1l:91:LYS:C	2.60	0.45
44:1m:4:ILE:HD13	44:1m:9:ILE:N	2.25	0.45
44:1m:9:ILE:HD11	44:1m:45:VAL:CG1	2.44	0.45
44:1m:81:LEU:O	44:1m:85:GLY:N	2.44	0.45
46:1o:34:LEU:HD11	46:1o:38:ARG:HE	1.82	0.45
48:1q:56:VAL:CG2	48:1q:81:ARG:HG3	2.47	0.45
48:1q:67:LYS:C	48:1q:69:LYS:H	2.25	0.45
49:1r:33:ASP:C	49:1r:35:ARG:H	2.23	0.45
50:1s:13:ASP:O	50:1s:16:LEU:HB3	2.17	0.45
1:2A:52:G:O6	1:2A:114:G:N2	2.49	0.45
1:2A:509:C:O2'	1:2A:510:C:H5'	2.16	0.45
1:2A:615:G:H1	1:2A:710:C:N4	2.14	0.45
1:2A:866:A:H1'	1:2A:987:U:H1'	1.98	0.45
1:2A:910:G:OP2	12:2Q:22:LYS:HE3	2.16	0.45
1:2A:933:A:H2'	1:2A:934:C:H5"	1.98	0.45
1:2A:1346:A:O3'	1:2A:1347:A:H2'	2.16	0.45
1:2A:1834:C:H2'	1:2A:1835:U:H5'	1.99	0.45
1:2A:2118:C:O5'	1:2A:2118:C:H6	2.00	0.45
1:2A:2200:C:H2'	1:2A:2201:U:O5'	2.17	0.45
1:2A:2315:G:C5'	6:2G:124:SER:HB2	2.47	0.45
1:2A:2363:A:H2	22:20:33:ALA:HB1	1.81	0.45
1:2A:2473:U:H1'	1:2A:2502:U:O4	2.17	0.45
2:2B:87:G:H5"	59:2B:301:HOH:O	2.16	0.45
3:2D:65:ILE:HG21	3:2D:67:PHE:CE1	2.52	0.45
4:2E:14:ILE:O	4:2E:20:ALA:HA	2.17	0.45
4:2E:116:VAL:HG11	4:2E:138:PRO:HB3	1.97	0.45
4:2E:134:ILE:O	4:2E:134:ILE:HD12	2.16	0.45
7:2H:18:GLU:CG	7:2H:25:LYS:HB2	2.40	0.45
8:2I:56:LYS:O	8:2I:59:ALA:N	2.49	0.45
8:2I:66:GLU:HA	8:2I:69:LYS:HE3	1.96	0.45
9:2N:47:ALA:CB	9:2N:112:LEU:HD11	2.46	0.45
10:2O:64:ARG:CD	10:2O:79:PHE:HD2	2.26	0.45
12:2Q:137:TYR:O	12:2Q:141:GLN:HG2	2.16	0.45
13:2R:64:ARG:O	13:2R:68:ARG:HG3	2.16	0.45
14:2S:25:ARG:HG3	14:2S:25:ARG:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:33:LEU:O	21:2Z:34:ASN:HB2	2.14	0.45
22:20:31:VAL:HB	22:20:35:ASN:HB2	1.98	0.45
32:2a:57:U:H2'	32:2a:58:G:C8	2.51	0.45
32:2a:251:G:H4'	48:2q:17:LYS:CG	2.47	0.45
32:2a:658:G:H2'	32:2a:659:A:C8	2.51	0.45
32:2a:795:C:H4'	32:2a:878:A:N6	2.32	0.45
32:2a:934:U:C2'	32:2a:935:U:H5'	2.47	0.45
32:2a:1206:G:N1	32:2a:1304:C:O4'	2.49	0.45
32:2a:1302:C:O2	50:2s:36:ARG:NH2	2.45	0.45
32:2a:1307:C:C4'	52:2u:17:THR:HG21	2.47	0.45
32:2a:1470:A:H5"	43:2l:47:LYS:HD3	1.99	0.45
32:2a:1483:G:H4'	32:2a:1484:U:H5"	1.98	0.45
34:2c:53:ALA:HB3	34:2c:69:HIS:HB3	1.99	0.45
35:2d:189:PRO:HB2	35:2d:194:LEU:CD1	2.47	0.45
36:2e:33:VAL:HG21	36:2e:109:ILE:HD13	1.98	0.45
39:2h:20:TYR:CD1	39:2h:20:TYR:N	2.84	0.45
39:2h:80:ILE:HG22	39:2h:80:ILE:O	2.14	0.45
39:2h:116:LYS:CD	39:2h:129:VAL:HG11	2.46	0.45
39:2h:121:ASP:HB2	39:2h:125:ARG:HH12	1.81	0.45
40:2i:82:ALA:HA	40:2i:85:LEU:HG	1.98	0.45
42:2k:59:TYR:CE2	42:2k:63:LEU:HD11	2.52	0.45
43:2l:45:PRO:HG3	43:2l:53:ARG:NE	2.32	0.45
46:2o:6:GLU:O	46:2o:7:GLU:C	2.60	0.45
1:1A:170:A:H2	1:1A:459:C:O2	1.98	0.45
1:1A:200:G:C2'	1:1A:201:A:H5'	2.46	0.45
1:1A:821:G:O5'	1:1A:823:A:H1'	2.17	0.45
1:1A:1007:U:OP1	59:1A:4370:HOH:O	2.21	0.45
1:1A:1017:A:H5'	1:1A:1232:U:C1'	2.46	0.45
1:1A:1415:C:HO2'	1:1A:1841:G:HO2'	1.64	0.45
1:1A:1518:A:O2'	1:1A:1519:G:H5'	2.16	0.45
1:1A:1543:C:O4'	1:1A:1623:C:H4'	2.17	0.45
1:1A:1928:G:H2'	1:1A:1929:C:C6	2.52	0.45
1:1A:2150:C:C4	1:1A:2180:G:O6	2.69	0.45
1:1A:2551:C:OP2	59:1A:4371:HOH:O	2.21	0.45
1:1A:2840:G:P	4:1E:58:ARG:HH21	2.39	0.45
4:1E:51:PHE:CE2	4:1E:52:LEU:HG	2.52	0.45
4:1E:84:PHE:CE2	4:1E:86:PRO:HD3	2.52	0.45
4:1E:101:ARG:NH1	4:1E:171:GLU:HB2	2.32	0.45
5:1F:197:ASP:O	5:1F:200:GLU:N	2.50	0.45
6:1G:112:PRO:CG	26:14:37:SER:HB3	2.47	0.45
8:1I:31:LEU:CD2	8:1I:38:LEU:CD1	2.91	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1I:83:ALA:HA	8:1I:89:TYR:HD2	1.78	0.45
11:1P:58:THR:O	11:1P:62:LEU:HG	2.17	0.45
15:1T:32:TYR:OH	15:1T:82:LEU:HD22	2.17	0.45
17:1V:14:VAL:HA	17:1V:18:LEU:CD2	2.47	0.45
18:1W:19:LEU:C	27:15:25:LEU:HD12	2.42	0.45
21:1Z:129:SER:O	21:1Z:132:ASN:N	2.38	0.45
26:14:34:GLU:HG2	26:14:35:VAL:HG12	1.99	0.45
29:17:21:ARG:C	29:17:23:ARG:H	2.24	0.45
31:19:7:VAL:HA	31:19:34:GLN:OE1	2.17	0.45
32:1a:249:U:O2	32:1a:271:G:O2'	2.32	0.45
32:1a:369:A:C2'	32:1a:370:A:H5'	2.47	0.45
32:1a:612:G:H2'	32:1a:613:G:H8	1.79	0.45
32:1a:843:A:N3	32:1a:896:A:O2'	2.40	0.45
32:1a:925:G:H2'	32:1a:926:C:O4'	2.17	0.45
32:1a:974:A:H8	32:1a:974:A:O5'	2.00	0.45
32:1a:1228:C:H2'	32:1a:1229:U:C6	2.52	0.45
32:1a:1372:C:C2'	32:1a:1373:U:H5'	2.47	0.45
33:1b:21:ARG:HB3	33:1b:22:LYS:H	1.58	0.45
33:1b:91:PRO:CG	33:1b:155:LEU:HB2	2.47	0.45
34:1c:5:ILE:HD11	45:1n:49:HIS:HE1	1.82	0.45
34:1c:68:VAL:O	34:1c:104:GLN:N	2.47	0.45
38:1g:42:ILE:HG21	38:1g:116:ALA:HB1	1.98	0.45
39:1h:19:VAL:O	39:1h:20:TYR:HB2	2.16	0.45
40:1i:28:VAL:HG22	40:1i:63:ILE:CB	2.46	0.45
50:1s:62:ILE:HG22	50:1s:63:THR:N	2.31	0.45
51:1t:38:LYS:O	51:1t:41:ILE:HB	2.16	0.45
1:2A:66:G:H2'	1:2A:67:C:H6	1.81	0.45
1:2A:93:G:H1'	24:22:47:ASN:OD1	2.17	0.45
1:2A:496:A:H2'	1:2A:497:A:H5'	1.99	0.45
1:2A:853:U:OP2	11:2P:41:ARG:NH2	2.49	0.45
1:2A:1038:G:H1'	17:2V:89:GLN:OE1	2.17	0.45
1:2A:1319:A:N3	1:2A:1342:C:H1'	2.32	0.45
1:2A:1409:G:C8	23:21:3:LYS:HD2	2.52	0.45
1:2A:1646:G:OP2	19:2X:58:HIS:HD2	2.00	0.45
1:2A:2177:G:H2'	1:2A:2178:G:C5'	2.47	0.45
1:2A:2554:G:H2'	1:2A:2555:G:H8	1.80	0.45
1:2A:2589:G:H2'	1:2A:2590:C:C6	2.52	0.45
1:2A:2661:U:C2'	1:2A:2662:C:H5'	2.47	0.45
1:2A:2723:U:O2'	1:2A:2724:A:P	2.74	0.45
1:2A:2784:C:O3'	4:2E:166:THR:HB	2.16	0.45
3:2D:20:ASP:O	3:2D:21:PHE:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:103:LYS:HA	5:2F:106:ARG:HG2	1.98	0.45
5:2F:197:ASP:OD1	5:2F:198:ALA:N	2.49	0.45
6:2G:74:LYS:O	6:2G:75:LYS:HB3	2.16	0.45
8:2I:77:LEU:O	8:2I:143:SER:N	2.49	0.45
13:2R:75:LEU:O	13:2R:79:LEU:N	2.50	0.45
14:2S:78:LEU:HD11	14:2S:108:GLY:O	2.15	0.45
16:2U:79:PHE:CE1	16:2U:83:LEU:HD11	2.52	0.45
17:2V:35:LEU:HB2	17:2V:57:VAL:HG23	1.95	0.45
21:2Z:102:LEU:HB3	21:2Z:104:PHE:HE1	1.81	0.45
32:2a:131:C:N4	32:2a:223:G:H1	2.14	0.45
32:2a:509:C:O2'	32:2a:510:C:H5'	2.16	0.45
32:2a:647:A:H2'	32:2a:648:G:H8	1.82	0.45
32:2a:676:U:H2'	32:2a:678:A:OP2	2.17	0.45
32:2a:917:G:C6	32:2a:918:C:C4	3.04	0.45
32:2a:1089:G:H2'	32:2a:1090:C:H6	1.82	0.45
32:2a:1097:C:N4	32:2a:1168:G:H1	2.12	0.45
32:2a:1185:C:OP1	45:2n:3:ARG:HD3	2.16	0.45
32:2a:1241:C:O2'	32:2a:1265:G:N2	2.45	0.45
32:2a:1305:G:H4'	32:2a:1345:C:C2	2.52	0.45
32:2a:1321:A:H2'	32:2a:1322:A:C5'	2.47	0.45
34:2c:29:TYR:CE2	45:2n:37:PHE:CE1	3.04	0.45
34:2c:70:VAL:HG22	34:2c:72:LYS:N	2.30	0.45
34:2c:91:LEU:C	34:2c:93:LYS:H	2.23	0.45
35:2d:58:LEU:HD23	35:2d:58:LEU:C	2.41	0.45
35:2d:122:ARG:O	35:2d:122:ARG:HG3	2.17	0.45
39:2h:20:TYR:CD1	39:2h:65:TYR:CE2	3.02	0.45
39:2h:63:LEU:HD23	39:2h:65:TYR:OH	2.17	0.45
45:2n:24:CYS:SG	45:2n:40:CYS:N	2.79	0.45
47:2p:27:LYS:C	47:2p:29:ASP:N	2.75	0.45
49:2r:52:PRO:O	49:2r:56:THR:HG23	2.16	0.45
51:2t:60:GLU:HA	51:2t:63:ILE:HD12	1.99	0.45
1:1A:164:G:C2'	1:1A:165:G:H5'	2.46	0.45
1:1A:873:U:H5'	1:1A:874:U:OP1	2.17	0.45
1:1A:1125:C:O2'	1:1A:1126:U:H5'	2.17	0.45
1:1A:1129:A:H2'	1:1A:1130:A:O4'	2.17	0.45
1:1A:1267:C:O2'	1:1A:1268:G:H5'	2.17	0.45
1:1A:1294:U:H5"	59:1A:4401:HOH:O	2.15	0.45
1:1A:1439:U:H6	1:1A:1439:U:H3'	1.82	0.45
1:1A:1659:A:N1	18:1W:93:ALA:HB2	2.31	0.45
1:1A:1741:G:H8	3:1D:8:PRO:HB2	1.82	0.45
1:1A:1836:C:O2'	1:1A:1837:G:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2277:A:H4'	1:1A:2278:A:O5'	2.16	0.45
1:1A:2398:U:H4'	22:10:41:ARG:NH2	2.32	0.45
59:1A:5145:HOH:O	13:1R:110:PRO:HG2	2.16	0.45
2:1B:87:G:N2	2:1B:90:A:OP2	2.40	0.45
4:1E:2:LYS:HB2	4:1E:95:ILE:HD12	1.99	0.45
14:1S:67:ARG:NH1	14:1S:103:GLU:OE1	2.50	0.45
15:1T:26:ASP:OD1	15:1T:120:ARG:NH2	2.41	0.45
16:1U:21:ALA:HA	16:1U:24:TYR:CE2	2.52	0.45
17:1V:5:VAL:CG1	17:1V:57:VAL:HG21	2.47	0.45
32:1a:118:G:P	32:1a:306:G:H21	2.35	0.45
32:1a:136:A:H2'	32:1a:137:G:H5'	1.97	0.45
32:1a:327:G:OP2	59:1a:2069:HOH:O	2.21	0.45
32:1a:430:U:H2'	32:1a:431:C:H6	1.81	0.45
32:1a:477:G:H2'	32:1a:478:G:C8	2.52	0.45
32:1a:647:A:C2'	32:1a:648:G:H5'	2.47	0.45
32:1a:685:C:O2	32:1a:687:G:N1	2.49	0.45
32:1a:888:C:P	43:1l:97:ARG:HH22	2.40	0.45
32:1a:1168:G:N2	32:1a:1169:G:H1'	2.32	0.45
32:1a:1222:U:C6	38:1g:42:ILE:HD13	2.52	0.45
33:1b:22:LYS:C	33:1b:24:TRP:N	2.75	0.45
33:1b:160:ASP:O	33:1b:161:ALA:HB2	2.16	0.45
34:1c:138:VAL:HG11	34:1c:170:GLN:HB3	1.97	0.45
35:1d:62:GLN:OE1	35:1d:65:ARG:NE	2.44	0.45
35:1d:83:SER:HA	35:1d:89:THR:OG1	2.17	0.45
35:1d:170:VAL:HG12	35:1d:171:GLY:N	2.31	0.45
38:1g:71:PRO:HG3	38:1g:103:TRP:HH2	1.81	0.45
1:2A:33:C:N4	1:2A:472:A:H61	2.15	0.45
1:2A:141:G:H1'	19:2X:37:THR:CG2	2.47	0.45
1:2A:498:G:O2'	1:2A:499:G:H5'	2.16	0.45
1:2A:504:A:N3	1:2A:506:G:H5"	2.32	0.45
1:2A:735:A:H2'	1:2A:736:G:C8	2.51	0.45
1:2A:807:A:OP2	59:2A:3895:HOH:O	2.20	0.45
1:2A:846:A:H4'	1:2A:847:G:O5'	2.17	0.45
1:2A:890:C:H2'	1:2A:891:G:C5'	2.39	0.45
1:2A:895:A:C2	25:23:21:ALA:HB1	2.52	0.45
1:2A:1088:C:H2'	1:2A:1089:G:O4'	2.17	0.45
1:2A:1131:A:H3'	1:2A:1131:A:N3	2.32	0.45
1:2A:1529:G:C2'	1:2A:1530:G:H5'	2.47	0.45
1:2A:1707:G:O2'	1:2A:1708:C:H5'	2.17	0.45
1:2A:1756:C:H1'	1:2A:2868:G:N2	2.32	0.45
1:2A:1820:C:H2'	1:2A:1821:A:C4	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1910:A:H1'	1:2A:2107:U:O2'	2.16	0.45
1:2A:2068:U:H2'	1:2A:2069:G:H8	1.81	0.45
2:2B:65:C:N4	2:2B:109:C:O2'	2.50	0.45
6:2G:111:LEU:HB2	6:2G:112:PRO:CD	2.43	0.45
9:2N:71:ILE:HA	9:2N:85:ILE:O	2.16	0.45
11:2P:113:LYS:HG3	11:2P:129:ALA:O	2.16	0.45
12:2Q:8:LYS:HA	21:2Z:197:ILE:HD12	1.99	0.45
12:2Q:47:ILE:O	12:2Q:50:ALA:N	2.50	0.45
14:2S:61:ASN:C	14:2S:65:VAL:HG23	2.42	0.45
16:2U:13:LYS:NZ	59:2U:303:HOH:O	2.42	0.45
20:2Y:9:LYS:NZ	20:2Y:28:LYS:O	2.50	0.45
21:2Z:13:GLU:HB3	21:2Z:18:LEU:CD1	2.43	0.45
30:28:16:ILE:HG22	30:28:17:THR:O	2.16	0.45
32:2a:183:C:H42	32:2a:196:G:H1	1.63	0.45
32:2a:233:C:OP2	48:2q:40:LYS:NZ	2.50	0.45
32:2a:304:C:H2'	32:2a:305:G:H8	1.82	0.45
32:2a:946:A:C8	32:2a:1045:U:H4'	2.52	0.45
32:2a:1063:A:OP1	36:2e:47:LYS:HD3	2.17	0.45
32:2a:1083:C:H2'	32:2a:1085:A:O5'	2.17	0.45
32:2a:1110:G:H2'	32:2a:1111:C:C6	2.51	0.45
32:2a:1190:C:H2'	32:2a:1191:C:H5'	1.99	0.45
32:2a:1255:G:H3'	32:2a:1256:G:C8	2.50	0.45
32:2a:1257:A:C2'	32:2a:1258:G:H5'	2.46	0.45
32:2a:1333:U:H2'	32:2a:1334:C:O4'	2.17	0.45
32:2a:1375:G:H2'	32:2a:1376:U:O4'	2.16	0.45
32:2a:1471:A:H2'	32:2a:1472:G:H5'	1.99	0.45
34:2c:40:ARG:HH11	34:2c:55:VAL:HB	1.81	0.45
34:2c:125:GLU:HG2	34:2c:190:ARG:O	2.16	0.45
34:2c:166:GLU:O	34:2c:167:TRP:HB3	2.17	0.45
35:2d:60:GLU:HG3	35:2d:202:LEU:CD1	2.47	0.45
36:2e:59:GLY:O	36:2e:63:ARG:HD2	2.17	0.45
36:2e:106:PRO:HA	36:2e:109:ILE:CG1	2.46	0.45
37:2f:50:TYR:CE2	49:2r:81:PHE:HE2	2.32	0.45
37:2f:60:PHE:CE2	49:2r:78:LEU:HD21	2.49	0.45
37:2f:69:GLU:OE1	37:2f:69:GLU:N	2.37	0.45
39:2h:51:VAL:O	39:2h:52:ASP:HB2	2.17	0.45
41:2j:50:ILE:HG23	41:2j:59:SER:O	2.16	0.45
44:2m:4:ILE:CG1	44:2m:60:VAL:HG11	2.47	0.45
50:2s:33:THR:HG22	50:2s:49:ILE:HG23	1.98	0.45
1:1A:11:U:H2'	1:1A:12:A:C5'	2.46	0.45
1:1A:41:G:H2'	1:1A:42:A:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:295:U:H6	1:1A:295:U:O5'	2.00	0.45
1:1A:307:U:O2'	1:1A:308:C:H5'	2.16	0.45
1:1A:501:G:H22	1:1A:504:A:P	2.40	0.45
1:1A:1018:G:C3'	1:1A:1019:C:H5'	2.46	0.45
1:1A:1090:A:O2'	1:1A:1092:G:C4	2.68	0.45
1:1A:1182:G:O2'	9:1N:102:ALA:O	2.35	0.45
1:1A:1484:A:H2'	1:1A:1485:G:C5'	2.47	0.45
1:1A:1726:U:C2'	1:1A:1727:G:H5'	2.47	0.45
1:1A:1788:G:C2	1:1A:2707:U:H5'	2.52	0.45
1:1A:1836:C:C2'	1:1A:1837:G:H5'	2.47	0.45
1:1A:2021:G:O2'	1:1A:2022:A:H5'	2.17	0.45
1:1A:2094:C:H5'	3:1D:229:VAL:HG22	1.98	0.45
1:1A:2122:G:H2'	1:1A:2123:U:O4'	2.17	0.45
1:1A:2208:G:H2'	1:1A:2208:G:N3	2.32	0.45
1:1A:2367:C:C2'	1:1A:2368:U:H5'	2.47	0.45
1:1A:2536:G:O2'	1:1A:2754:C:H1'	2.16	0.45
4:1E:10:GLY:HA2	4:1E:192:ASN:OD1	2.16	0.45
4:1E:78:LEU:O	4:1E:79:ARG:NH1	2.45	0.45
5:1F:120:GLU:HB3	5:1F:122:LYS:HG2	1.98	0.45
5:1F:199:TRP:O	5:1F:202:PHE:HB3	2.17	0.45
6:1G:68:PRO:HG2	6:1G:90:LEU:HD22	1.99	0.45
6:1G:138:GLN:HG2	6:1G:144:ILE:HG21	1.99	0.45
12:1Q:70:PRO:HA	12:1Q:94:VAL:O	2.17	0.45
15:1T:13:ARG:C	15:1T:14:TYR:CD1	2.90	0.45
15:1T:67:SER:O	15:1T:68:TYR:C	2.60	0.45
15:1T:89:VAL:O	15:1T:90:GLN:HB2	2.16	0.45
17:1V:15:GLU:O	17:1V:96:ILE:HB	2.16	0.45
17:1V:65:GLY:O	17:1V:66:ARG:HG3	2.16	0.45
18:1W:8:ARG:HG2	18:1W:102:HIS:HD2	1.82	0.45
19:1X:39:ILE:O	19:1X:42:ALA:HB3	2.17	0.45
21:1Z:102:LEU:CB	21:1Z:104:PHE:HE1	2.27	0.45
21:1Z:126:VAL:HG12	21:1Z:127:LYS:O	2.16	0.45
21:1Z:157:LEU:HD21	21:1Z:163:LEU:CD1	2.47	0.45
32:1a:143:G:N2	32:1a:144:A:N3	2.65	0.45
32:1a:573:C:O2'	32:1a:574:C:H5'	2.16	0.45
32:1a:589:U:H2'	32:1a:590:G:H5'	1.99	0.45
32:1a:1228:C:H2'	32:1a:1229:U:H6	1.81	0.45
34:1c:139:GLN:HE21	34:1c:143:GLU:CG	2.30	0.45
35:1d:91:SER:HA	35:1d:94:LEU:HD12	1.99	0.45
35:1d:205:GLU:O	35:1d:208:SER:OG	2.21	0.45
37:1f:82:ARG:HB2	37:1f:85:VAL:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:77:PRO:O	41:1j:78:ASN:CB	2.65	0.45
50:1s:22:LEU:HB3	50:1s:27:GLU:CB	2.47	0.45
1:2A:95:C:O2'	1:2A:96:G:H5'	2.16	0.45
1:2A:250:A:C2'	1:2A:251:C:H5'	2.47	0.45
1:2A:590:U:H5'	1:2A:989:A:H62	1.82	0.45
1:2A:1325:G:H1	1:2A:1335:C:H42	1.65	0.45
1:2A:1709:C:HO2'	1:2A:1710:A:H8	1.64	0.45
1:2A:2148:G:H2'	1:2A:2149:C:O4'	2.16	0.45
1:2A:2390:G:C2'	14:2S:17:ARG:HH22	2.30	0.45
1:2A:2671:A:OP1	1:2A:2671:A:H8	2.00	0.45
1:2A:2825:C:H4'	13:2R:99:LYS:NZ	2.32	0.45
2:2B:69:G:H2'	2:2B:70:C:H6	1.82	0.45
4:2E:108:SER:HB3	4:2E:165:VAL:HG23	1.96	0.45
6:2G:83:ARG:H	6:2G:86:MET:CE	2.28	0.45
8:2I:72:LEU:HD13	8:2I:140:LEU:HD12	1.98	0.45
12:2Q:27:VAL:HA	12:2Q:105:GLU:OE2	2.17	0.45
13:2R:53:HIS:O	13:2R:56:LYS:HB2	2.17	0.45
14:2S:89:ARG:O	14:2S:92:TYR:HB2	2.17	0.45
15:2T:36:GLU:OE2	15:2T:41:ARG:NH2	2.47	0.45
15:2T:118:ARG:HG3	32:2a:1426:G:N7	2.32	0.45
19:2X:21:PHE:HB3	19:2X:93:GLU:OE2	2.17	0.45
32:2a:262:G:O2'	32:2a:263:C:P	2.75	0.45
32:2a:652:G:O2'	46:2o:46:HIS:ND1	2.21	0.45
32:2a:726:G:C2'	32:2a:727:U:H5'	2.46	0.45
32:2a:859:G:N7	43:2l:9:GLN:NE2	2.63	0.45
32:2a:1222:U:H4'	32:2a:1223:G:OP2	2.17	0.45
32:2a:1237:G:H5"	34:2c:26:LYS:HZ2	1.82	0.45
33:2b:75:LYS:C	33:2b:78:GLN:HG2	2.42	0.45
33:2b:118:LEU:HD12	33:2b:145:LEU:CD1	2.47	0.45
34:2c:130:VAL:CG1	34:2c:134:ILE:HD11	2.43	0.45
35:2d:200:GLU:O	35:2d:204:ILE:HG12	2.17	0.45
46:2o:8:LYS:O	46:2o:11:VAL:N	2.50	0.45
47:2p:23:ASP:OD2	47:2p:25:ARG:NH1	2.49	0.45
48:2q:6:LEU:HB3	48:2q:59:ILE:CG1	2.47	0.45
52:2u:5:ASP:O	52:2u:8:THR:OG1	2.25	0.45
1:1A:272:G:H21	8:1I:50:ARG:HD3	1.81	0.45
1:1A:393:C:C2'	1:1A:394:C:H5'	2.47	0.45
1:1A:535:U:O4	1:1A:536:G:N1	2.50	0.45
1:1A:539:A:H2	1:1A:1305:G:N3	2.15	0.45
1:1A:889:G:H1	1:1A:979:C:N4	2.15	0.45
1:1A:933:A:O4'	1:1A:934:C:H5"	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:979:C:O2'	1:1A:980:C:H5'	2.16	0.45
1:1A:1577:C:N4	1:1A:1584:G:H1	2.08	0.45
1:1A:1867:C:O2'	1:1A:1948:A:N3	2.37	0.45
1:1A:2107:U:H2'	1:1A:2108:G:H8	1.80	0.45
1:1A:2250:G:H5"	59:1A:3961:HOH:O	2.17	0.45
1:1A:2547:G:C2'	1:1A:2548:U:H5'	2.47	0.45
2:1B:84:C:H42	2:1B:93:G:H1	1.65	0.45
3:1D:54:ARG:O	3:1D:218:ARG:HD2	2.17	0.45
3:1D:69:ARG:CD	3:1D:130:ALA:HB2	2.47	0.45
3:1D:72:LYS:NZ	3:1D:99:ASP:OD2	2.48	0.45
4:1E:9:VAL:HG23	4:1E:10:GLY:N	2.32	0.45
4:1E:11:MET:HG2	59:1E:419:HOH:O	2.16	0.45
5:1F:192:LEU:HD21	5:1F:194:MET:CE	2.26	0.45
6:1G:38:VAL:HA	6:1G:92:VAL:O	2.17	0.45
6:1G:103:LEU:HA	6:1G:106:LEU:HB3	1.99	0.45
28:16:6:ARG:HD2	28:16:6:ARG:HA	1.76	0.45
32:1a:9:A:N6	35:1d:205:GLU:O	2.50	0.45
32:1a:37:C:H2'	32:1a:38:U:C5'	2.47	0.45
32:1a:287:C:H42	32:1a:305:G:H1	1.65	0.45
32:1a:440:G:N2	32:1a:441:G:H1'	2.32	0.45
32:1a:499:G:C2'	32:1a:500:PSU:H5"	2.46	0.45
32:1a:672:G:H2'	32:1a:673:C:C6	2.49	0.45
32:1a:957:C:C2'	32:1a:958:C:H5'	2.47	0.45
32:1a:1284:U:O4	44:1m:14:ARG:NH1	2.50	0.45
33:1b:74:LYS:NZ	33:1b:206:ASP:OD1	2.42	0.45
33:1b:103:THR:HG23	33:1b:176:GLU:HG2	1.98	0.45
34:1c:21:ARG:O	34:1c:22:TRP:HB3	2.17	0.45
35:1d:8:VAL:O	35:1d:11:LEU:HB2	2.17	0.45
35:1d:18:LYS:HD2	35:1d:18:LYS:HA	1.69	0.45
35:1d:88:VAL:HA	36:1e:97:GLY:HA3	1.99	0.45
35:1d:157:LEU:HD23	35:1d:157:LEU:C	2.42	0.45
35:1d:178:VAL:CG1	35:1d:179:GLU:N	2.79	0.45
36:1e:137:GLU:O	36:1e:141:GLN:HG3	2.17	0.45
37:1f:95:GLU:O	49:1r:32:ARG:NH1	2.50	0.45
38:1g:121:ALA:O	38:1g:124:LEU:HB2	2.17	0.45
40:1i:46:ALA:HB2	40:1i:74:ILE:O	2.17	0.45
42:1k:116:HIS:O	42:1k:117:ASN:CB	2.65	0.45
43:1l:83:VAL:CG1	43:1l:100:ILE:HG23	2.47	0.45
1:2A:706:G:C5'	5:2F:99:TYR:CE2	2.99	0.45
1:2A:767:C:H2'	1:2A:768:A:C8	2.52	0.45
1:2A:1022:G:H1	1:2A:1031:C:N4	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1050:C:O2'	9:2N:28:THR:CG2	2.63	0.45
1:2A:1093:A:H2	1:2A:1157:G:N3	2.15	0.45
1:2A:1096:G:H5"	1:2A:1097:C:OP2	2.18	0.45
1:2A:1358:U:O2	1:2A:1358:U:C2'	2.64	0.45
1:2A:1369:G:H4'	1:2A:1661:A:N7	2.32	0.45
1:2A:1555:A:H2'	1:2A:1556:A:H5'	1.98	0.45
1:2A:1597:C:H2'	1:2A:1598:G:H5'	1.99	0.45
1:2A:1701:A:C2'	1:2A:1702:C:H5'	2.46	0.45
1:2A:2316:A:N1	6:2G:154:GLY:N	2.64	0.45
1:2A:2478:C:P	31:29:6:SER:HG	2.40	0.45
1:2A:2483:G:N1	1:2A:2488:C:OP1	2.41	0.45
1:2A:2723:U:O2'	1:2A:2725:A:H5'	2.17	0.45
6:2G:70:VAL:N	6:2G:90:LEU:HD23	2.31	0.45
7:2H:46:GLU:HB2	7:2H:49:VAL:HG13	1.99	0.45
12:2Q:35:VAL:HG22	12:2Q:36:ALA:N	2.31	0.45
14:2S:30:ARG:HA	14:2S:35:ILE:HA	1.99	0.45
19:2X:92:LEU:C	19:2X:94:GLY:N	2.74	0.45
21:2Z:108:PRO:HG3	21:2Z:141:VAL:O	2.17	0.45
26:24:25:TYR:N	26:24:25:TYR:CD1	2.85	0.45
32:2a:26:C:C5'	32:2a:508:G:H1'	2.47	0.45
32:2a:72:C:C2'	32:2a:73:C:H5'	2.46	0.45
32:2a:72:C:O2'	32:2a:73:C:H5'	2.17	0.45
32:2a:117:C:C2'	32:2a:118:G:H5'	2.47	0.45
32:2a:204:A:N6	32:2a:217:C:H4'	2.32	0.45
32:2a:231:C:O2'	48:2q:71:PHE:HZ	1.99	0.45
32:2a:497:C:H2'	32:2a:498:C:H6	1.82	0.45
32:2a:582:U:H4'	39:2h:94:TYR:CD2	2.52	0.45
32:2a:603:U:N3	35:2d:135:LEU:HD21	2.31	0.45
32:2a:724:U:O2'	32:2a:725:G:H5'	2.17	0.45
32:2a:755:G:O2'	32:2a:756:U:H5'	2.16	0.45
32:2a:1189:2MG:HM23	32:2a:1190:C:C1'	2.47	0.45
34:2c:29:TYR:HE2	45:2n:37:PHE:CE1	2.35	0.45
34:2c:35:GLU:HA	34:2c:38:ARG:CD	2.46	0.45
36:2e:129:ILE:O	36:2e:132:ALA:HB3	2.17	0.45
37:2f:3:ARG:HG2	37:2f:93:SER:CB	2.47	0.45
37:2f:33:TYR:HD2	37:2f:75:LEU:HB2	1.81	0.45
37:2f:98:LEU:HD12	37:2f:98:LEU:N	2.30	0.45
38:2g:29:LYS:CB	38:2g:105:VAL:HG21	2.46	0.45
38:2g:152:ALA:O	38:2g:155:ARG:HG2	2.16	0.45
39:2h:65:TYR:HD1	39:2h:65:TYR:N	2.15	0.45
40:2i:15:ALA:HA	40:2i:65:VAL:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:33:THR:HA	42:2k:38:ASN:O	2.17	0.45
43:2l:27:LEU:H	43:2l:27:LEU:HD12	1.82	0.45
43:2l:69:TYR:HB3	43:2l:99:HIS:ND1	2.32	0.45
44:2m:22:ILE:HB	44:2m:25:ILE:HG22	1.97	0.45
1:1A:790:G:OP1	4:1E:132:HIS:ND1	2.49	0.44
1:1A:1047:G:H2'	1:1A:1048:G:O4'	2.17	0.44
1:1A:1613:A:C3'	3:1D:86:PRO:HG3	2.46	0.44
1:1A:1709:C:H2'	59:1A:3967:HOH:O	2.16	0.44
1:1A:2791:U:H4'	1:1A:2792:G:C5'	2.41	0.44
3:1D:196:VAL:HG12	3:1D:197:GLY:N	2.33	0.44
4:1E:54:GLN:HE21	4:1E:58:ARG:HB2	1.82	0.44
4:1E:119:ARG:HG2	4:1E:120:TRP:CE2	2.52	0.44
6:1G:139:LEU:HD23	6:1G:144:ILE:CG2	2.34	0.44
7:1H:103:LEU:CD2	7:1H:105:LEU:HD11	2.47	0.44
8:1I:102:SER:HA	8:1I:107:VAL:O	2.18	0.44
12:1Q:125:LEU:HD12	12:1Q:129:THR:CG2	2.47	0.44
19:1X:35:THR:H	19:1X:38:GLU:HB3	1.81	0.44
20:1Y:77:PRO:HD2	20:1Y:106:LEU:CD2	2.47	0.44
21:1Z:26:GLY:C	21:1Z:37:VAL:HG22	2.42	0.44
26:14:67:TYR:CG	50:1s:16:LEU:HD21	2.50	0.44
32:1a:23:G:O2'	32:1a:24:C:H5'	2.16	0.44
32:1a:276:C:N3	48:1q:39:SER:N	2.59	0.44
32:1a:295:G:N2	32:1a:550:G:O6	2.49	0.44
32:1a:320:G:N1	32:1a:323:A:OP2	2.50	0.44
32:1a:555:U:O2	32:1a:896:A:H5'	2.16	0.44
32:1a:695:G:O2'	32:1a:696:A:H5'	2.17	0.44
32:1a:761:A:O2'	32:1a:762:G:H5'	2.17	0.44
32:1a:869:U:O2'	32:1a:870:A:H5'	2.17	0.44
32:1a:944:M2G:HM22	32:1a:945:5MC:O2	2.18	0.44
32:1a:963:C:H2'	32:1a:964:A:H8	1.81	0.44
32:1a:1210:C:H2'	32:1a:1211:A:H8	1.82	0.44
32:1a:1261:A:H5"	32:1a:1262:A:P	2.58	0.44
32:1a:1362:G:H2'	32:1a:1363:U:H5'	1.99	0.44
33:1b:97:TRP:NE1	33:1b:173:ALA:HB2	2.32	0.44
33:1b:167:PRO:HG2	33:1b:192:SER:HB3	1.99	0.44
35:1d:127:THR:N	35:1d:147:ALA:O	2.50	0.44
36:1e:122:GLU:CD	36:1e:131:ILE:HG12	2.42	0.44
37:1f:14:LEU:HB3	37:1f:18:GLN:HB3	1.99	0.44
41:1j:27:ALA:O	41:1j:31:GLY:N	2.46	0.44
41:1j:44:VAL:HG11	41:1j:46:ARG:NH1	2.32	0.44
46:1o:4:THR:OG1	46:1o:7:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:1p:20:VAL:HG22	47:1p:21:VAL:N	2.31	0.44
1:2A:18:C:H2'	1:2A:19:C:C6	2.51	0.44
1:2A:39:C:O2'	1:2A:40:C:H5'	2.17	0.44
1:2A:191:C:OP2	59:2A:3899:HOH:O	2.20	0.44
1:2A:244:A:O2'	1:2A:245:A:H5'	2.16	0.44
1:2A:267:G:H2'	1:2A:268:G:C8	2.46	0.44
1:2A:727:G:H1	1:2A:842:C:H42	1.65	0.44
1:2A:1575:G:O6	1:2A:1587:G:N2	2.50	0.44
1:2A:1848:U:O2'	3:2D:154:LYS:O	2.28	0.44
1:2A:2648:U:C2'	1:2A:2649:G:H5'	2.47	0.44
1:2A:2746:A:H62	1:2A:2782:G:N2	2.14	0.44
3:2D:53:PHE:CE2	3:2D:220:HIS:CD2	3.05	0.44
7:2H:87:LEU:HD23	7:2H:164:TYR:HA	1.98	0.44
12:2Q:42:ILE:HD13	12:2Q:97:VAL:HG23	1.99	0.44
12:2Q:54:MET:HB2	12:2Q:64:ILE:HD11	1.98	0.44
23:21:21:ARG:N	23:21:33:LYS:O	2.49	0.44
26:24:5:ILE:HG13	26:24:6:HIS:CD2	2.52	0.44
28:26:18:ARG:HD2	28:26:42:TRP:CD1	2.52	0.44
32:2a:37:C:OP1	43:2l:123:LYS:HE3	2.17	0.44
32:2a:493:A:HO2'	32:2a:494:A:P	2.37	0.44
32:2a:1300:A:C1'	50:2s:37:ARG:HD2	2.47	0.44
32:2a:1332:A:H2'	32:2a:1333:U:O4'	2.17	0.44
32:2a:1468:C:H2'	32:2a:1469:G:C8	2.52	0.44
33:2b:72:GLY:HA3	33:2b:165:VAL:CG2	2.46	0.44
33:2b:97:TRP:CZ2	33:2b:101:MET:HB3	2.52	0.44
33:2b:188:ALA:HB1	33:2b:192:SER:HB2	1.98	0.44
34:2c:31:HIS:O	34:2c:34:LEU:HB3	2.16	0.44
34:2c:55:VAL:O	34:2c:55:VAL:HG12	2.17	0.44
38:2g:57:GLU:O	38:2g:61:VAL:HG23	2.17	0.44
41:2j:16:LEU:O	41:2j:19:SER:N	2.50	0.44
43:2l:10:LEU:O	43:2l:14:GLY:N	2.49	0.44
48:2q:6:LEU:HB3	48:2q:59:ILE:HD11	1.99	0.44
1:1A:270:U:H3'	1:1A:270:U:OP2	2.17	0.44
1:1A:323:A:H5"	1:1A:324:G:OP2	2.16	0.44
1:1A:346:G:O2'	1:1A:1249:U:N3	2.38	0.44
1:1A:399:U:O2	1:1A:449:A:H2	2.00	0.44
1:1A:606:C:OP1	16:1U:5:LYS:HB2	2.17	0.44
1:1A:1232:U:C5'	17:1V:79:VAL:HG13	2.47	0.44
1:1A:1265:C:O2'	1:1A:1266:C:H5'	2.18	0.44
1:1A:1404:A:N1	1:1A:1417:U:O4	2.50	0.44
1:1A:1782:C:O2'	1:1A:1783:G:H5'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1948:A:H8	1:1A:1948:A:O5'	2.01	0.44
1:1A:2650:A:H2'	1:1A:2651:G:C5'	2.47	0.44
1:1A:2779:C:H2'	1:1A:2780:C:H5'	1.99	0.44
1:1A:2853:G:H2'	1:1A:2854:G:H5'	2.00	0.44
3:1D:52:ARG:HH12	3:1D:249:PRO:HG2	1.80	0.44
4:1E:47:VAL:HG12	4:1E:49:LEU:CD1	2.46	0.44
6:1G:112:PRO:HG3	26:14:37:SER:HB3	1.98	0.44
6:1G:171:ALA:C	6:1G:175:LEU:HD13	2.42	0.44
10:1O:11:ALA:HB1	10:1O:99:PHE:O	2.17	0.44
11:1P:2:LYS:O	11:1P:5:ASP:N	2.51	0.44
13:1R:74:LYS:HG2	13:1R:77:ARG:HH12	1.82	0.44
15:1T:23:ARG:CZ	15:1T:120:ARG:HD3	2.47	0.44
18:1W:38:TYR:CD2	27:15:41:PRO:HD3	2.48	0.44
31:19:2:LYS:HD3	31:19:4:ARG:NH2	2.32	0.44
32:1a:490:G:H2'	32:1a:491:C:O4'	2.17	0.44
32:1a:535:U:O2'	32:1a:536:U:H5'	2.18	0.44
32:1a:555:U:H5"	32:1a:803:A:C4	2.52	0.44
32:1a:641:G:H1	32:1a:733:C:H42	1.64	0.44
32:1a:909:C:O2'	32:1a:910:C:H5'	2.18	0.44
32:1a:954:G:OP2	32:1a:1340:U:O2'	2.35	0.44
32:1a:1069:U:H2'	32:1a:1070:G:H5'	1.99	0.44
32:1a:1140:A:H4'	32:1a:1141:C:H5"	1.99	0.44
32:1a:1394:C:N3	32:1a:1467:G:N1	2.54	0.44
33:1b:12:GLU:O	33:1b:15:VAL:N	2.50	0.44
33:1b:114:ARG:HH21	33:1b:141:GLU:CD	2.24	0.44
35:1d:103:ASN:OD1	35:1d:107:ARG:HG2	2.18	0.44
35:1d:104:VAL:O	35:1d:108:LEU:HD13	2.18	0.44
35:1d:178:VAL:O	35:1d:180:GLY:N	2.45	0.44
37:1f:26:ILE:O	37:1f:30:LEU:HG	2.17	0.44
38:1g:75:VAL:HG12	38:1g:145:ALA:HA	2.00	0.44
39:1h:44:PHE:CD1	39:1h:80:ILE:HG12	2.52	0.44
42:1k:101:SER:OG	42:1k:102:GLY:N	2.50	0.44
43:1l:40:VAL:HG11	43:1l:77:LEU:O	2.16	0.44
45:1n:32:SER:O	45:1n:41:ARG:N	2.50	0.44
47:1p:1:MET:HG3	47:1p:3:LYS:HG3	1.98	0.44
48:1q:4:LYS:HG3	48:1q:6:LEU:HD12	1.99	0.44
51:1t:77:ALA:O	51:1t:81:LYS:HG3	2.18	0.44
1:2A:70:U:H1'	24:22:58:ALA:CB	2.47	0.44
1:2A:166:G:C2'	1:2A:167:G:H5'	2.48	0.44
1:2A:288:G:H1	1:2A:395:C:N4	2.16	0.44
1:2A:312:A:H2'	1:2A:313:G:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1127:U:O2	1:2A:1127:U:O4'	2.35	0.44
1:2A:1269:C:O2'	17:2V:85:LYS:HA	2.17	0.44
1:2A:1575:G:C2'	1:2A:1576:C:H5'	2.47	0.44
1:2A:1644:C:OP1	19:2X:36:LYS:HG3	2.17	0.44
1:2A:1827:C:N4	1:2A:1828:U:O4	2.50	0.44
1:2A:2010:G:H2'	1:2A:2011:C:C5'	2.47	0.44
1:2A:2127:G:C2'	1:2A:2128:C:H4'	2.47	0.44
2:2B:52:A:O3'	2:2B:53:A:H8	2.00	0.44
5:2F:23:ASP:C	5:2F:24:LEU:HD12	2.41	0.44
6:2G:36:LYS:HA	6:2G:99:MET:SD	2.58	0.44
6:2G:145:THR:CG2	6:2G:148:MET:HG2	2.45	0.44
12:2Q:110:THR:OG1	12:2Q:113:GLN:HB2	2.17	0.44
15:2T:50:ILE:HG22	15:2T:102:ILE:HD11	1.98	0.44
16:2U:35:ALA:O	16:2U:39:LEU:HG	2.18	0.44
18:2W:105:VAL:HG12	18:2W:107:LEU:HD11	1.99	0.44
19:2X:95:LEU:HD12	19:2X:95:LEU:N	2.33	0.44
21:2Z:42:VAL:HG13	21:2Z:43:GLU:N	2.31	0.44
21:2Z:53:ILE:C	21:2Z:53:ILE:HD12	2.42	0.44
21:2Z:135:GLU:C	21:2Z:136:PHE:CD1	2.87	0.44
26:24:24:THR:C	26:24:25:TYR:CD1	2.91	0.44
32:2a:348:C:H4'	32:2a:350:G:OP1	2.17	0.44
32:2a:595:A:C2'	32:2a:596:C:H5'	2.47	0.44
32:2a:738:C:H2'	32:2a:738:C:O2	2.15	0.44
32:2a:740:C:C2'	32:2a:741:U:H5'	2.48	0.44
32:2a:991:U:H2'	32:2a:992:G:C8	2.52	0.44
32:2a:1078:U:H2'	32:2a:1079:C:O4'	2.17	0.44
32:2a:1275:G:H2'	32:2a:1276:G:O4'	2.17	0.44
32:2a:1349:C:H2'	32:2a:1350:C:H6	1.79	0.44
32:2a:1399:G:O2'	32:2a:1400:G:H5'	2.17	0.44
32:2a:1488:U:H2'	32:2a:1489:G:C8	2.52	0.44
33:2b:165:VAL:O	33:2b:167:PRO:HD3	2.17	0.44
33:2b:204:ASN:ND2	33:2b:207:ALA:HB2	2.32	0.44
37:2f:86:ARG:O	37:2f:87:ARG:HD3	2.17	0.44
37:2f:94:GLN:HG2	49:2r:32:ARG:HD3	1.99	0.44
38:2g:78:ARG:C	38:2g:85:TYR:H	2.23	0.44
43:2l:32:PHE:HD2	43:2l:84:LEU:CD2	2.31	0.44
44:2m:59:TYR:O	44:2m:63:THR:N	2.50	0.44
44:2m:60:VAL:HG13	44:2m:61:GLU:N	2.32	0.44
46:2o:83:GLU:HG3	46:2o:84:LYS:N	2.32	0.44
48:2q:66:SER:OG	48:2q:69:LYS:HB2	2.18	0.44
1:1A:201:A:O2'	1:1A:202:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:720:G:N3	5:1F:74:ARG:NH1	2.65	0.44
1:1A:730:G:OP1	29:17:16:HIS:ND1	2.47	0.44
1:1A:1118:A:C2	1:1A:1119:G:C8	3.03	0.44
1:1A:1137:C:H2'	1:1A:1138:G:C5'	2.47	0.44
1:1A:1761:G:O2'	1:1A:1762:G:H5'	2.17	0.44
2:1B:7:G:H1	2:1B:114:C:N4	2.12	0.44
3:1D:83:GLU:HB2	3:1D:92:ILE:HD11	1.98	0.44
3:1D:159:ALA:O	3:1D:161:THR:N	2.50	0.44
4:1E:48:GLN:HE21	4:1E:78:LEU:CD2	2.24	0.44
4:1E:52:LEU:HB3	4:1E:76:ARG:HD3	2.00	0.44
4:1E:197:ILE:HG22	4:1E:199:ARG:HG3	1.99	0.44
5:1F:184:TYR:CD2	5:1F:188:ARG:HD2	2.52	0.44
6:1G:33:ARG:HB2	6:1G:162:THR:HG23	1.99	0.44
6:1G:138:GLN:O	6:1G:144:ILE:HG13	2.16	0.44
8:1I:109:ILE:HD11	8:1I:130:TYR:CE2	2.53	0.44
9:1N:29:LYS:CD	9:1N:140:VAL:HB	2.48	0.44
10:1O:64:ARG:NH1	15:1T:70:VAL:HG21	2.33	0.44
10:1O:115:VAL:HG13	10:1O:121:VAL:HG21	2.00	0.44
11:1P:90:ARG:HG3	11:1P:91:PHE:HD1	1.80	0.44
13:1R:83:ILE:O	13:1R:86:ARG:HG2	2.17	0.44
16:1U:46:ALA:O	16:1U:49:HIS:N	2.46	0.44
21:1Z:44:PHE:CE1	21:1Z:48:PHE:HB2	2.53	0.44
26:14:67:TYR:CB	50:1s:16:LEU:HD21	2.43	0.44
32:1a:116:G:O2'	32:1a:117:C:H5'	2.17	0.44
32:1a:608:C:H4'	47:1p:10:GLY:C	2.42	0.44
32:1a:1112:C:C4'	32:1a:1129:A:H61	2.30	0.44
33:1b:35:GLU:CA	33:1b:41:ILE:HG12	2.39	0.44
34:1c:34:LEU:HD21	34:1c:38:ARG:HH21	1.82	0.44
35:1d:33:MET:HA	35:1d:37:PRO:HA	1.98	0.44
40:1i:43:ALA:C	40:1i:45:ALA:H	2.25	0.44
40:1i:114:TYR:CD2	41:1j:60:ARG:HB2	2.52	0.44
46:1o:43:LEU:HD12	46:1o:56:LEU:HD22	1.98	0.44
47:1p:53:VAL:HG13	47:1p:79:VAL:HA	1.99	0.44
50:1s:40:ILE:HG21	50:1s:67:VAL:HA	2.00	0.44
1:2A:176:G:H1	1:2A:196:C:H42	1.66	0.44
1:2A:442:C:O2'	1:2A:443:C:H5'	2.17	0.44
1:2A:504:A:H4'	1:2A:505:A:C5'	2.47	0.44
1:2A:608:A:HO2'	1:2A:717:C:HO2'	1.58	0.44
1:2A:675:G:H2'	1:2A:676:C:H5'	1.98	0.44
1:2A:738:C:P	3:2D:56:GLY:H	2.40	0.44
1:2A:1035:A:H5"	1:2A:1202:G:OP1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1302:C:H4'	5:2F:83:PHE:CD1	2.51	0.44
1:2A:1387:A:O2'	1:2A:1389:G:OP2	2.33	0.44
1:2A:1464:A:OP2	59:2A:3902:HOH:O	2.21	0.44
1:2A:1606:G:H2'	1:2A:1607:G:H5'	1.99	0.44
1:2A:1666:U:H5"	1:2A:1667:G:OP1	2.17	0.44
1:2A:1800:G:H1	1:2A:2003:C:H42	1.65	0.44
1:2A:2224:U:C2'	1:2A:2225:C:H5'	2.48	0.44
5:2F:24:LEU:HB3	5:2F:115:ALA:HB2	2.00	0.44
6:2G:64:THR:HG21	6:2G:92:VAL:HG11	1.99	0.44
8:2I:23:PRO:O	8:2I:27:ARG:N	2.37	0.44
8:2I:47:LEU:O	8:2I:51:ILE:HG12	2.17	0.44
11:2P:30:THR:N	59:2P:305:HOH:O	2.47	0.44
11:2P:83:VAL:CG2	11:2P:114:ILE:HA	2.47	0.44
11:2P:121:LYS:HG2	11:2P:122:PRO:HD2	1.99	0.44
13:2R:76:VAL:HA	13:2R:79:LEU:CB	2.47	0.44
17:2V:8:GLY:O	17:2V:10:LYS:NZ	2.23	0.44
20:2Y:34:LYS:HG2	20:2Y:34:LYS:O	2.16	0.44
20:2Y:44:ILE:CD1	20:2Y:64:GLU:HG3	2.47	0.44
26:24:28:LYS:HA	26:24:29:PRO:HD3	1.84	0.44
27:25:52:TYR:O	27:25:53:ALA:HB3	2.18	0.44
32:2a:109:G:C1'	32:2a:110:A:OP2	2.60	0.44
32:2a:548:C:H1'	39:2h:91:ARG:HH22	1.82	0.44
32:2a:791:A:O2'	32:2a:792:C:H5'	2.17	0.44
32:2a:853:C:HO2'	39:2h:14:ARG:NE	2.03	0.44
32:2a:1111:C:H1'	32:2a:1130:C:N3	2.32	0.44
32:2a:1161:A:H2'	32:2a:1162:A:O4'	2.17	0.44
33:2b:180:LEU:C	33:2b:182:ILE:N	2.74	0.44
36:2e:30:ALA:O	36:2e:46:GLY:N	2.33	0.44
36:2e:61:TYR:O	36:2e:64:ARG:N	2.51	0.44
38:2g:78:ARG:O	38:2g:85:TYR:N	2.31	0.44
42:2k:44:SER:O	42:2k:45:GLY:C	2.60	0.44
43:2l:46:LYS:HE2	43:2l:92:0TD:H8	1.98	0.44
43:2l:85:ILE:HA	43:2l:99:HIS:O	2.17	0.44
44:2m:54:VAL:HG23	44:2m:55:ARG:N	2.32	0.44
45:2n:4:LYS:O	45:2n:8:GLU:HG2	2.18	0.44
46:2o:3:ILE:HG22	46:2o:8:LYS:HB2	1.97	0.44
51:2t:11:SER:HA	51:2t:14:LYS:HB3	2.00	0.44
1:1A:14:G:H2'	1:1A:15:G:H8	1.82	0.44
1:1A:308:C:N3	1:1A:379:G:N1	2.42	0.44
1:1A:378:G:H2'	1:1A:379:G:C5'	2.47	0.44
1:1A:452:C:C2'	1:1A:453:U:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:557:G:H5'	16:1U:24:TYR:CD1	2.52	0.44
1:1A:620:G:H2'	1:1A:621:G:O4'	2.18	0.44
1:1A:723:A:O2'	1:1A:2092:A:H5'	2.18	0.44
1:1A:770:U:O2'	1:1A:771:G:H5'	2.18	0.44
1:1A:1124:C:N4	1:1A:1133:A:O4'	2.49	0.44
1:1A:1323:A:O2'	1:1A:1324:G:H5'	2.18	0.44
1:1A:1676:C:H2'	59:1A:4317:HOH:O	2.17	0.44
1:1A:1881:U:C2'	1:1A:1882:C:H5'	2.48	0.44
1:1A:1903:C:C2'	1:1A:1904:G:H5'	2.47	0.44
1:1A:1977:U:C2'	1:1A:1978:C:H5'	2.47	0.44
1:1A:2039:G:N3	16:1U:34:LYS:NZ	2.64	0.44
1:1A:2128:C:H5'	1:1A:2129:C:OP2	2.17	0.44
1:1A:2323:U:O2'	1:1A:2324:C:H5'	2.16	0.44
1:1A:2637:C:H42	1:1A:2789:G:H1	1.65	0.44
8:1I:27:ARG:HH11	23:11:67:ILE:HG22	1.82	0.44
9:1N:123:TYR:OH	9:1N:130:HIS:NE2	2.45	0.44
11:1P:125:VAL:HG21	11:1P:138:LEU:CD2	2.48	0.44
12:1Q:93:TYR:N	12:1Q:93:TYR:CD1	2.84	0.44
13:1R:10:LEU:O	13:1R:12:ARG:NH1	2.49	0.44
13:1R:67:LEU:HD13	13:1R:76:VAL:HG21	1.99	0.44
13:1R:84:ALA:HB3	13:1R:85:PRO:HD3	2.00	0.44
17:1V:81:TYR:HA	59:1V:305:HOH:O	2.17	0.44
18:1W:1:MET:HG2	18:1W:2:GLU:N	2.32	0.44
18:1W:7:ALA:HB2	18:1W:50:VAL:HG22	1.98	0.44
18:1W:14:PRO:C	18:1W:16:LYS:N	2.75	0.44
20:1Y:46:LYS:CD	20:1Y:60:PHE:HD2	2.31	0.44
23:11:5:CYS:CB	23:11:8:SER:HG	2.30	0.44
23:11:80:LEU:O	23:11:82:LEU:HG	2.17	0.44
26:14:16:CYS:HB2	26:14:20:ASN:HB3	1.97	0.44
30:18:30:ARG:HD3	59:18:214:HOH:O	2.18	0.44
32:1a:125:A:H1'	32:1a:259:A:O2'	2.16	0.44
32:1a:391:C:O2'	32:1a:392:G:H5'	2.16	0.44
32:1a:406:G:H3'	35:1d:25:ARG:HH22	1.82	0.44
32:1a:747:G:O2'	32:1a:748:C:H5'	2.17	0.44
32:1a:1004:U:O2	32:1a:1019:G:C6	2.65	0.44
32:1a:1135:A:C2'	32:1a:1136:C:H5'	2.47	0.44
32:1a:1380:C:O2	32:1a:1380:C:O4'	2.35	0.44
34:1c:24:ALA:CB	34:1c:29:TYR:HB2	2.40	0.44
34:1c:124:ILE:HG13	34:1c:125:GLU:H	1.83	0.44
36:1e:84:PHE:O	36:1e:86:ALA:N	2.50	0.44
38:1g:42:ILE:HD13	38:1g:116:ALA:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:1h:20:TYR:CD1	39:1h:65:TYR:HD2	2.35	0.44
39:1h:110:ALA:HA	39:1h:135:CYS:O	2.17	0.44
40:1i:16:ARG:HH11	40:1i:64:THR:HG21	1.83	0.44
42:1k:33:THR:HA	42:1k:39:PRO:HA	1.98	0.44
42:1k:34:ASP:CG	42:1k:38:ASN:HB2	2.43	0.44
43:1l:24:VAL:HG23	43:1l:24:VAL:O	2.17	0.44
44:1m:25:ILE:HG13	44:1m:66:LEU:HD22	1.98	0.44
44:1m:39:ILE:HD12	44:1m:56:LEU:HB2	1.99	0.44
44:1m:90:LEU:HD23	44:1m:93:ARG:HE	1.83	0.44
50:1s:3:ARG:HE	50:1s:7:LYS:CB	2.30	0.44
1:2A:26:G:HO2'	1:2A:27:A:P	2.40	0.44
1:2A:197:C:O2'	1:2A:198:C:H5'	2.17	0.44
1:2A:457:U:H2'	1:2A:458:A:H8	1.82	0.44
1:2A:909:A:H2'	1:2A:910:G:H8	1.83	0.44
1:2A:1137:C:N3	1:2A:1138:G:N1	2.65	0.44
1:2A:1165:G:H2'	1:2A:1166:C:H5'	2.00	0.44
1:2A:1259:G:H2'	1:2A:1260:G:H5'	2.00	0.44
1:2A:1271:A:OP1	17:2V:84:LYS:NZ	2.41	0.44
1:2A:1958:A:C8	1:2A:1960:5MU:H2'	2.52	0.44
1:2A:1980:G:H1'	32:2a:1401:A:N3	2.32	0.44
1:2A:2041:A:H4'	16:2U:25:TRP:HZ3	1.82	0.44
1:2A:2306:C:N3	1:2A:2348:G:N1	2.52	0.44
1:2A:2468:U:C2'	1:2A:2469:G:H5'	2.48	0.44
1:2A:2558:U:H2'	1:2A:2559:G:C8	2.51	0.44
1:2A:2578:G:H2'	1:2A:2579:C:C6	2.53	0.44
3:2D:77:ALA:HA	3:2D:97:TYR:HA	1.98	0.44
6:2G:31:VAL:O	6:2G:33:ARG:NH1	2.49	0.44
6:2G:36:LYS:HB2	6:2G:94:LEU:O	2.17	0.44
8:2I:95:LYS:O	8:2I:99:GLU:HG3	2.18	0.44
9:2N:47:ALA:HA	9:2N:116:LEU:HD21	1.98	0.44
11:2P:59:LEU:O	11:2P:61:ARG:N	2.51	0.44
14:2S:30:ARG:HG2	14:2S:92:TYR:CE1	2.51	0.44
14:2S:62:LYS:HA	14:2S:65:VAL:CB	2.44	0.44
18:2W:14:PRO:O	18:2W:15:ARG:C	2.59	0.44
20:2Y:7:VAL:HG11	20:2Y:13:VAL:HG11	2.00	0.44
20:2Y:86:ARG:C	20:2Y:98:VAL:HG22	2.42	0.44
21:2Z:118:GLN:N	21:2Z:173:ALA:O	2.44	0.44
31:29:1:MET:HE2	31:29:33:LYS:HG2	1.99	0.44
32:2a:121:G:H1	32:2a:230:C:N4	2.16	0.44
32:2a:188:C:C2'	32:2a:189:U:H5'	2.47	0.44
32:2a:382:C:O2'	32:2a:383:U:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:400:U:H2'	32:2a:401:U:H6	1.82	0.44
32:2a:923:G:N3	32:2a:923:G:H2'	2.33	0.44
32:2a:939:U:H2'	32:2a:940:C:C5'	2.48	0.44
32:2a:955:A:H3'	32:2a:955:A:N3	2.32	0.44
32:2a:970:U:C1'	32:2a:971:G:OP2	2.64	0.44
32:2a:1008:C:H2'	32:2a:1009:C:C6	2.53	0.44
32:2a:1059:C:N4	32:2a:1064:G:H1	2.13	0.44
32:2a:1336:C:C2'	32:2a:1337:G:H5'	2.48	0.44
32:2a:1385:4OC:H2'	32:2a:1386:C:C6	2.52	0.44
33:2b:54:THR:O	33:2b:58:ILE:HD12	2.17	0.44
35:2d:141:ARG:HB2	35:2d:144:ASP:CG	2.42	0.44
38:2g:50:ILE:HD11	38:2g:58:PRO:HG3	2.00	0.44
42:2k:58:PRO:CB	42:2k:93:GLN:HG2	2.47	0.44
43:2l:118:SER:OG	43:2l:119:LYS:N	2.51	0.44
51:2t:10:LEU:O	51:2t:11:SER:C	2.60	0.44
51:2t:50:GLU:O	51:2t:100:ILE:HD12	2.18	0.44
1:1A:518:G:O2'	59:1A:4376:HOH:O	2.21	0.44
1:1A:571:A:N6	17:1V:19:LYS:HG3	2.32	0.44
1:1A:917:U:H4'	12:1Q:69:PHE:CE2	2.52	0.44
1:1A:1224:C:O2'	1:1A:1225:C:H5'	2.17	0.44
1:1A:1267:C:H2'	1:1A:1268:G:H5'	1.99	0.44
1:1A:1391:G:OP2	59:1A:3931:HOH:O	2.21	0.44
1:1A:1417:U:H2'	1:1A:1418:A:H5'	1.98	0.44
1:1A:1741:G:C8	3:1D:8:PRO:HB2	2.53	0.44
3:1D:7:LYS:HB3	3:1D:8:PRO:HD2	2.00	0.44
4:1E:43:GLY:O	4:1E:44:TYR:HB3	2.18	0.44
4:1E:52:LEU:HB2	4:1E:76:ARG:HB2	1.99	0.44
4:1E:105:THR:O	4:1E:196:VAL:HA	2.18	0.44
4:1E:195:LEU:HG	4:1E:196:VAL:N	2.32	0.44
6:1G:161:THR:HG22	6:1G:163:ALA:N	2.32	0.44
8:1I:27:ARG:NH1	23:11:67:ILE:HG22	2.32	0.44
11:1P:1:MET:CE	11:1P:5:ASP:HB3	2.45	0.44
11:1P:17:LYS:HE3	11:1P:27:HIS:CE1	2.53	0.44
13:1R:104:ARG:HB2	13:1R:111:LEU:HD11	2.00	0.44
16:1U:52:ARG:HG3	16:1U:55:ARG:HD2	1.99	0.44
17:1V:74:LYS:HB2	17:1V:83:ARG:HB2	1.99	0.44
19:1X:35:THR:O	19:1X:38:GLU:N	2.51	0.44
25:13:10:LYS:HD3	25:13:53:LEU:HD23	1.99	0.44
25:13:55:ARG:NH1	59:13:205:HOH:O	2.50	0.44
29:17:24:THR:OG1	29:17:25:PRO:HD2	2.16	0.44
32:1a:78:G:O6	32:1a:86:U:O4	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:132:C:C2'	32:1a:133:G:H5'	2.47	0.44
32:1a:271:G:H2'	32:1a:271:G:N3	2.33	0.44
32:1a:302:G:H2'	32:1a:303:C:O4'	2.18	0.44
32:1a:726:G:C2'	32:1a:727:U:H5'	2.48	0.44
32:1a:1259:C:O2'	32:1a:1261:A:H1'	2.15	0.44
32:1a:1299:C:C6	45:1n:16:PHE:CD2	3.05	0.44
32:1a:1341:C:O2'	32:1a:1343:G:OP2	2.14	0.44
33:1b:73:THR:HG22	33:1b:95:GLN:O	2.18	0.44
37:1f:44:GLY:CA	37:1f:59:TYR:CD1	3.01	0.44
39:1h:63:LEU:CB	39:1h:65:TYR:HE1	2.29	0.44
39:1h:111:ILE:HG23	39:1h:118:VAL:HG13	1.98	0.44
42:1k:17:GLY:N	42:1k:79:SER:O	2.50	0.44
50:1s:43:GLU:OE1	50:1s:43:GLU:N	2.50	0.44
1:2A:16:G:H8	1:2A:16:G:O5'	2.01	0.44
1:2A:353:A:N3	1:2A:353:A:H2'	2.32	0.44
1:2A:521:A:C2'	1:2A:522:G:H5'	2.48	0.44
1:2A:604:G:H2'	1:2A:605:G:H8	1.82	0.44
1:2A:828:A:N7	3:2D:221:VAL:HG21	2.32	0.44
1:2A:862:C:O2'	1:2A:863:C:H5'	2.17	0.44
1:2A:1040:C:C6	16:2U:57:PHE:HE2	2.35	0.44
1:2A:1168:C:H2'	1:2A:1169:C:H6	1.82	0.44
1:2A:1227:G:O2'	1:2A:1228:G:H5'	2.17	0.44
1:2A:1448:C:O2'	1:2A:1449:C:H5'	2.17	0.44
1:2A:1517:A:N3	1:2A:1517:A:H2'	2.33	0.44
1:2A:1844:G:P	3:2D:40:THR:HG21	2.58	0.44
1:2A:2145:G:H2'	1:2A:2146:G:H5'	2.00	0.44
1:2A:2272:C:C5	22:20:16:SER:HB3	2.53	0.44
1:2A:2537:G:H5'	1:2A:2754:C:O2'	2.18	0.44
1:2A:2567:C:H2'	1:2A:2568:G:C8	2.53	0.44
5:2F:56:GLU:OE1	5:2F:93:LYS:NZ	2.50	0.44
5:2F:102:PRO:HB2	5:2F:105:VAL:HG23	1.98	0.44
10:2O:68:GLU:CA	10:2O:78:ARG:HB3	2.47	0.44
11:2P:31:ALA:C	11:2P:32:THR:HG1	2.22	0.44
14:2S:104:GLY:O	14:2S:107:GLU:HB2	2.17	0.44
21:2Z:58:VAL:HG22	21:2Z:68:PRO:HB3	1.98	0.44
21:2Z:102:LEU:HB3	21:2Z:104:PHE:CE1	2.52	0.44
22:20:43:THR:OG1	22:20:45:PHE:O	2.21	0.44
32:2a:498:C:H2'	32:2a:499:G:O4'	2.18	0.44
32:2a:526:G:P	35:2d:10:ARG:HH22	2.40	0.44
32:2a:881:G:H2'	32:2a:882:C:C6	2.51	0.44
32:2a:1444:C:C2'	32:2a:1445:G:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:91:PRO:HG3	33:2b:155:LEU:HD13	1.99	0.44
35:2d:25:ARG:HH11	35:2d:30:LYS:HB3	1.79	0.44
40:2i:53:VAL:O	40:2i:55:ALA:N	2.50	0.44
43:2l:32:PHE:HB3	43:2l:84:LEU:HD11	1.99	0.44
44:2m:81:LEU:CA	44:2m:84:ILE:HG12	2.39	0.44
46:2o:39:LEU:HD23	46:2o:39:LEU:O	2.17	0.44
49:2r:68:LYS:O	49:2r:72:ARG:HB2	2.17	0.44
1:1A:565:C:O2'	1:1A:566:C:H5'	2.18	0.44
1:1A:602:C:H2'	1:1A:603:C:O4'	2.18	0.44
1:1A:935:C:O2'	1:1A:936:A:O5'	2.35	0.44
1:1A:1893:G:H2'	1:1A:1894:U:O4'	2.17	0.44
1:1A:1929:C:C2'	1:1A:1930:C:H5'	2.47	0.44
1:1A:2266:G:H1	1:1A:2286:C:H42	1.65	0.44
1:1A:2593:G:H2'	1:1A:2594:G:H5'	1.99	0.44
1:1A:2630:C:C2'	1:1A:2631:C:H5'	2.47	0.44
1:1A:2653:G:H4'	9:1N:78:TYR:CD2	2.53	0.44
1:1A:2733:A:H2'	1:1A:2734:G:O4'	2.17	0.44
1:1A:2856:U:C2'	1:1A:2857:G:H5'	2.47	0.44
4:1E:113:PHE:HE1	4:1E:158:GLY:HA2	1.81	0.44
4:1E:134:ILE:C	4:1E:134:ILE:HD12	2.42	0.44
10:1O:11:ALA:O	10:1O:98:VAL:HA	2.18	0.44
11:1P:95:VAL:HG22	11:1P:125:VAL:HG12	1.99	0.44
13:1R:60:LEU:HB3	59:1R:310:HOH:O	2.16	0.44
16:1U:6:THR:OG1	16:1U:10:ARG:NH2	2.51	0.44
26:14:57:GLU:HA	26:14:58:ARG:HA	1.63	0.44
32:1a:167:A:C2'	32:1a:168:U:H5'	2.48	0.44
32:1a:398:G:O2'	32:1a:399:C:H5'	2.18	0.44
32:1a:404:A:H5'	35:1d:116:GLN:CG	2.47	0.44
32:1a:656:U:H2'	32:1a:657:G:C8	2.53	0.44
32:1a:1114:G:O5'	32:1a:1114:G:H8	2.00	0.44
32:1a:1375:G:C2'	32:1a:1376:U:H5'	2.47	0.44
33:1b:174:VAL:CG1	33:1b:196:LEU:HG	2.48	0.44
34:1c:17:ASP:O	34:1c:54:ARG:NH2	2.51	0.44
34:1c:35:GLU:HG2	34:1c:59:ARG:HH22	1.82	0.44
35:1d:82:ALA:O	35:1d:85:LYS:N	2.50	0.44
40:1i:4:TYR:O	40:1i:18:PHE:HA	2.18	0.44
40:1i:95:LYS:C	40:1i:99:LEU:HD13	2.42	0.44
41:1j:46:ARG:HA	41:1j:64:GLU:HA	1.99	0.44
44:1m:10:PRO:HG2	44:1m:21:TYR:CD2	2.53	0.44
44:1m:56:LEU:HD23	44:1m:56:LEU:O	2.18	0.44
1:2A:172:C:O2'	1:2A:205:G:N2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:391:U:H3'	1:2A:392:A:C8	2.53	0.44
1:2A:512:C:O2	18:2W:53:SER:OG	2.31	0.44
1:2A:755:U:O2'	1:2A:756:G:H5'	2.18	0.44
1:2A:863:C:H2'	1:2A:864:G:C8	2.51	0.44
1:2A:1224:C:H2'	1:2A:1225:C:C6	2.53	0.44
1:2A:1688:G:C2'	1:2A:1689:G:H5'	2.47	0.44
1:2A:1697:G:H5'	13:2R:39:PRO:CB	2.48	0.44
1:2A:1900:C:O2'	1:2A:1901:C:H5'	2.17	0.44
1:2A:1962:C:C3'	1:2A:1963:5MC:H5'	2.47	0.44
1:2A:2628:C:O2'	1:2A:2629:G:H5'	2.17	0.44
1:2A:2637:C:H2'	1:2A:2638:G:O4'	2.18	0.44
1:2A:2685:G:H2'	1:2A:2686:A:C8	2.53	0.44
5:2F:54:ARG:HG2	5:2F:81:PRO:HD3	1.99	0.44
5:2F:64:ILE:HG13	5:2F:65:TRP:N	2.32	0.44
8:2I:78:THR:HA	8:2I:143:SER:OG	2.18	0.44
9:2N:26:LEU:HD12	9:2N:29:LYS:HE2	2.00	0.44
10:2O:12:ASP:HA	10:2O:98:VAL:HA	2.00	0.44
15:2T:52:ILE:HG23	15:2T:60:THR:O	2.18	0.44
15:2T:99:LEU:O	15:2T:102:ILE:HG12	2.17	0.44
16:2U:8:VAL:O	16:2U:9:VAL:C	2.60	0.44
18:2W:4:LYS:HB3	18:2W:106:ILE:HG12	1.98	0.44
18:2W:28:SER:O	18:2W:29:LEU:C	2.60	0.44
22:20:45:PHE:HA	22:20:77:ARG:O	2.18	0.44
25:23:15:TYR:HB3	25:23:19:GLN:OE1	2.17	0.44
31:29:1:MET:HE2	31:29:33:LYS:HE2	1.95	0.44
32:2a:71:G:C6	32:2a:72:C:C4	3.05	0.44
32:2a:772:U:H3	32:2a:776:A:H2'	1.83	0.44
32:2a:989:G:H1	32:2a:998:C:H42	1.66	0.44
32:2a:1044:G:O4'	41:2j:56:HIS:HD2	2.00	0.44
32:2a:1116:G:H2'	32:2a:1117:G:O4'	2.17	0.44
32:2a:1208:C:C4	44:2m:104:ARG:HG3	2.53	0.44
32:2a:1216:C:O2'	32:2a:1217:U:H5'	2.17	0.44
32:2a:1233:A:H1'	32:2a:1352:C:O2'	2.17	0.44
32:2a:1270:A:H1'	32:2a:1335:G:H4'	1.99	0.44
32:2a:1286:G:N2	32:2a:1314:A:N7	2.66	0.44
32:2a:1502:C:H2'	32:2a:1503:G:C8	2.53	0.44
35:2d:13:ARG:CG	35:2d:38:TYR:O	2.66	0.44
40:2i:48:GLU:N	40:2i:49:PRO:CD	2.81	0.44
41:2j:74:ILE:CD1	41:2j:81:THR:HG21	2.42	0.44
44:2m:58:GLU:O	44:2m:61:GLU:N	2.49	0.44
1:1A:30:C:O3'	1:1A:1283:G:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:31:C:O2'	1:1A:32:U:H5'	2.18	0.44
1:1A:274:C:H2'	1:1A:275:C:C6	2.52	0.44
1:1A:363:A:H2'	1:1A:364:G:C5'	2.47	0.44
1:1A:504:A:N3	1:1A:506:G:H5"	2.33	0.44
1:1A:754:C:O2'	1:1A:755:U:H5'	2.18	0.44
1:1A:1153:U:H2'	1:1A:1154:C:O4'	2.18	0.44
1:1A:1198:C:H5"	16:1U:76:TYR:HE2	1.82	0.44
1:1A:1345:U:H4'	1:1A:1346:A:O5'	2.09	0.44
1:1A:1408:C:O2'	1:1A:1409:G:H5'	2.17	0.44
1:1A:1714:A:H4'	1:1A:1715:A:O5'	2.18	0.44
1:1A:2290:G:O6	22:10:14:ARG:HG3	2.18	0.44
1:1A:2309:A:H2'	1:1A:2310:G:H5'	2.00	0.44
1:1A:2578:G:O2'	1:1A:2579:C:H5'	2.18	0.44
1:1A:2705:G:C2'	1:1A:2706:C:H5'	2.48	0.44
1:1A:2751:U:O2'	1:1A:2752:A:H5'	2.18	0.44
3:1D:79:VAL:O	3:1D:114:GLY:N	2.34	0.44
5:1F:128:ALA:C	5:1F:129:PHE:HD1	2.25	0.44
6:1G:41:GLN:HG3	6:1G:60:LEU:HD11	2.00	0.44
7:1H:149:ARG:HG3	7:1H:162:ILE:HG22	2.00	0.44
7:1H:154:PRO:HG3	7:1H:162:ILE:O	2.17	0.44
9:1N:54:VAL:HB	9:1N:122:VAL:HG22	2.00	0.44
10:1O:64:ARG:HG2	10:1O:79:PHE:CD2	2.52	0.44
10:1O:116:SER:O	55:1a:1900:MPD:H11	2.17	0.44
12:1Q:61:GLY:HA2	21:1Z:177:PRO:HB3	2.00	0.44
16:1U:57:PHE:O	16:1U:60:LEU:HB3	2.17	0.44
16:1U:69:CYS:HB3	16:1U:74:LEU:CD1	2.48	0.44
20:1Y:79:CYS:O	20:1Y:81:LYS:HG3	2.17	0.44
21:1Z:17:ALA:O	21:1Z:18:LEU:C	2.61	0.44
24:12:32:LEU:HD11	24:12:57:ILE:HD12	2.00	0.44
30:18:38:GLY:O	30:18:42:ARG:HB2	2.18	0.44
32:1a:522:G:OP2	43:1l:115:LYS:HB2	2.18	0.44
32:1a:691:C:H4'	42:1k:20:TYR:HD2	1.70	0.44
32:1a:704:C:H6	32:1a:704:C:O5'	2.01	0.44
32:1a:865:G:H2'	32:1a:866:G:O4'	2.17	0.44
32:1a:975:U:H3'	32:1a:976:G:H5"	2.00	0.44
32:1a:1391:A:C2'	32:1a:1392:C:H5'	2.48	0.44
32:1a:1407:C:O2'	32:1a:1408:U:H5'	2.17	0.44
33:1b:54:THR:HG23	33:1b:199:TYR:HB3	1.99	0.44
33:1b:111:ARG:HH21	33:1b:114:ARG:HB2	1.82	0.44
33:1b:187:LEU:HD12	33:1b:201:ILE:CG2	2.48	0.44
34:1c:9:GLY:HA2	34:1c:12:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:9:GLY:N	45:1n:49:HIS:O	2.51	0.44
34:1c:113:ALA:HA	34:1c:202:ILE:HD12	2.00	0.44
35:1d:13:ARG:HA	35:1d:33:MET:SD	2.56	0.44
38:1g:37:ASN:HD21	40:1i:40:LEU:HD22	1.83	0.44
39:1h:63:LEU:HD22	39:1h:65:TYR:OH	2.17	0.44
44:1m:11:ARG:O	44:1m:12:ASN:HB2	2.16	0.44
46:1o:82:ILE:CB	46:1o:87:ILE:HG22	2.39	0.44
51:1t:21:LYS:O	51:1t:24:LEU:HB2	2.18	0.44
1:2A:183:A:H5"	1:2A:184:A:P	2.58	0.44
1:2A:456:G:H5"	1:2A:457:U:OP2	2.18	0.44
1:2A:652:G:O2'	1:2A:653:G:H5'	2.17	0.44
1:2A:825:U:O2'	1:2A:826:G:H5'	2.18	0.44
1:2A:879:U:O2	11:2P:55:ARG:NH2	2.51	0.44
1:2A:1102:A:O2'	1:2A:1103:G:H8	2.01	0.44
1:2A:1261:C:O2'	1:2A:1262:C:H5'	2.17	0.44
1:2A:1492:C:H42	1:2A:1511:G:H1	1.64	0.44
1:2A:1691:G:H5"	1:2A:1692:C:O4'	2.17	0.44
1:2A:2024:G:OP2	59:2A:3907:HOH:O	2.21	0.44
1:2A:2527:G:C2'	1:2A:2528:C:H5'	2.48	0.44
1:2A:2537:G:O2'	1:2A:2538:C:H5'	2.17	0.44
1:2A:2617:C:O2'	1:2A:2618:G:H5'	2.17	0.44
10:2O:63:VAL:HG23	10:2O:64:ARG:HG3	1.99	0.44
11:2P:86:LYS:HG3	11:2P:87:ASP:N	2.33	0.44
12:2Q:43:THR:HG1	12:2Q:46:GLN:HG3	1.81	0.44
16:2U:27:LEU:C	16:2U:29:SER:N	2.75	0.44
21:2Z:52:SER:OG	21:2Z:53:ILE:N	2.49	0.44
21:2Z:86:VAL:HG12	21:2Z:87:ASP:N	2.33	0.44
22:20:27:GLU:H	22:20:69:PHE:HE2	1.65	0.44
23:21:60:PHE:HA	23:21:91:LYS:NZ	2.33	0.44
24:22:3:LEU:O	24:22:7:ARG:HG3	2.18	0.44
32:2a:413:C:H2'	32:2a:414:C:C6	2.52	0.44
32:2a:435:A:H2'	32:2a:436:A:O4'	2.17	0.44
32:2a:725:G:C2'	32:2a:726:G:H5'	2.47	0.44
32:2a:734:G:C2	46:2o:23:GLY:HA3	2.53	0.44
32:2a:784:G:H8	32:2a:784:G:O5'	2.00	0.44
32:2a:951:G:H1'	41:2j:54:PHE:HD1	1.82	0.44
32:2a:983:A:C8	32:2a:1021:C:H1'	2.53	0.44
32:2a:1108:U:HO2'	32:2a:1109:U:H2'	1.83	0.44
35:2d:18:LYS:HA	35:2d:33:MET:HG3	1.99	0.44
35:2d:31:CYS:HB3	35:2d:34:GLU:CG	2.47	0.44
35:2d:58:LEU:CD2	35:2d:59:ARG:HH21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2i:6:GLY:H	40:2i:17:VAL:HG13	1.81	0.44
40:2i:16:ARG:C	40:2i:63:ILE:HG23	2.42	0.44
42:2k:28:THR:HG21	42:2k:61:ALA:HB1	2.00	0.44
42:2k:43:SER:O	42:2k:44:SER:HB3	2.18	0.44
48:2q:4:LYS:H	48:2q:61:GLU:CD	2.24	0.44
1:1A:290:G:H1	1:1A:393:C:H42	1.66	0.44
1:1A:319:C:O2'	1:1A:320:C:H5'	2.17	0.44
1:1A:517:G:H2'	1:1A:518:G:O4'	2.17	0.44
1:1A:705:C:H4'	5:1F:100:THR:O	2.17	0.44
1:1A:775:G:H5'	1:1A:776:C:H5"	1.99	0.44
1:1A:1090:A:OP1	1:1A:1090:A:H4'	2.17	0.44
1:1A:1132:G:H2'	1:1A:1134:G:C5'	2.48	0.44
1:1A:1397:U:H2'	1:1A:1398:A:H5'	2.00	0.44
1:1A:1945:C:O2'	1:1A:1946:C:H5'	2.18	0.44
1:1A:2150:C:O2	1:1A:2180:G:C2	2.70	0.44
1:1A:2566:U:H5"	1:1A:2567:C:OP2	2.17	0.44
1:1A:2746:A:C2'	1:1A:2747:G:H5'	2.48	0.44
1:1A:2813:C:O2'	1:1A:2814:C:H5'	2.17	0.44
6:1G:75:LYS:CA	6:1G:84:LYS:HG3	2.41	0.44
13:1R:57:ARG:C	13:1R:59:ASP:H	2.25	0.44
14:1S:30:ARG:HB3	14:1S:92:TYR:CE1	2.53	0.44
18:1W:58:ALA:HB1	18:1W:64:MET:HB2	1.99	0.44
21:1Z:33:LEU:HD23	21:1Z:33:LEU:H	1.82	0.44
29:17:43:THR:HG23	29:17:44:PRO:HD2	2.00	0.44
32:1a:252:U:OP1	48:1q:17:LYS:NZ	2.45	0.44
32:1a:418:C:H4'	32:1a:419:G:C4	2.53	0.44
32:1a:493:A:H5'	35:1d:54:TYR:CD2	2.52	0.44
32:1a:544:U:H4'	32:1a:545:U:O5'	2.17	0.44
32:1a:1001:G:H5'	32:1a:1002:G:P	2.57	0.44
32:1a:1087:G:C2'	32:1a:1088:A:H5'	2.48	0.44
32:1a:1174:C:H2'	32:1a:1175:G:O4'	2.18	0.44
33:1b:9:GLU:CD	33:1b:217:ARG:HH22	2.26	0.44
34:1c:40:ARG:O	34:1c:44:GLU:HG3	2.17	0.44
35:1d:140:VAL:HG12	35:1d:185:PHE:CD2	2.52	0.44
45:1n:54:PRO:O	45:1n:56:VAL:N	2.50	0.44
1:2A:944:A:H2'	1:2A:945:A:OP2	2.18	0.44
1:2A:953:C:H1'	12:2Q:71:ASP:OD2	2.18	0.44
1:2A:973:G:H8	1:2A:973:G:O5'	2.00	0.44
1:2A:1180:G:O2'	1:2A:1181:G:H5'	2.17	0.44
1:2A:1332:A:N1	1:2A:1694:C:O2'	2.50	0.44
1:2A:1923:C:OP1	3:2D:242:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1967:U:O2'	1:2A:1968:C:H5'	2.18	0.44
1:2A:2125:G:N2	1:2A:2126:C:N3	2.66	0.44
1:2A:2551:C:O2	1:2A:2752:A:H2	2.01	0.44
1:2A:2746:A:H2'	1:2A:2747:G:O4'	2.18	0.44
1:2A:2785:C:O3'	4:2E:164:ARG:HB3	2.16	0.44
1:2A:2842:G:H4'	1:2A:2843:G:OP2	2.18	0.44
5:2F:37:VAL:HG12	5:2F:41:LEU:HD12	1.99	0.44
5:2F:38:ARG:O	5:2F:42:ALA:HB2	2.17	0.44
5:2F:187:VAL:HG12	11:2P:2:LYS:HA	1.99	0.44
13:2R:10:LEU:CD1	13:2R:20:LEU:HD21	2.47	0.44
13:2R:28:LEU:HD13	13:2R:114:VAL:O	2.18	0.44
13:2R:63:ARG:HA	13:2R:80:PHE:CE2	2.52	0.44
23:21:58:ILE:CG2	23:21:60:PHE:HE1	2.31	0.44
23:21:67:ILE:N	23:21:68:PRO:HD2	2.32	0.44
26:24:50:VAL:HG23	26:24:51:ASP:N	2.32	0.44
30:28:33:ASN:HA	30:28:36:LYS:HD2	1.99	0.44
32:2a:198:G:H2'	32:2a:199:U:C6	2.53	0.44
32:2a:359:A:C6	43:2l:31:PRO:HD2	2.52	0.44
32:2a:668:A:O2'	42:2k:38:ASN:HB3	2.18	0.44
32:2a:703:C:H3'	32:2a:704:C:H6	1.81	0.44
32:2a:956:A:N6	32:2a:1300:A:N7	2.65	0.44
32:2a:1007:C:N3	32:2a:1016:G:C6	2.85	0.44
32:2a:1351:G:O2'	32:2a:1352:C:H5'	2.18	0.44
33:2b:28:PHE:O	33:2b:29:ALA:C	2.61	0.44
33:2b:143:GLU:O	33:2b:147:LYS:HG3	2.18	0.44
37:2f:50:TYR:O	37:2f:50:TYR:CD1	2.70	0.44
38:2g:40:ALA:HB1	40:2i:41:VAL:HG11	1.99	0.44
38:2g:149:ARG:NE	42:2k:59:TYR:OH	2.50	0.44
40:2i:16:ARG:HD3	40:2i:64:THR:CG2	2.47	0.44
40:2i:32:ASP:OD1	40:2i:33:PHE:N	2.51	0.44
47:2p:21:VAL:HG12	47:2p:34:GLU:O	2.17	0.44
1:1A:79:G:H1	1:1A:102:C:H42	1.65	0.44
1:1A:534:C:OP1	1:1A:534:C:H3'	2.18	0.44
1:1A:866:A:N3	1:1A:987:U:O2'	2.42	0.44
1:1A:1033:A:N7	59:1A:4538:HOH:O	2.36	0.44
1:1A:1097:C:N4	1:1A:1152:G:N1	2.52	0.44
1:1A:1201:A:OP1	16:1U:55:ARG:NH2	2.47	0.44
1:1A:1538:C:O2	1:1A:1538:C:O4'	2.36	0.44
1:1A:1835:U:H4'	3:1D:250:TRP:CZ2	2.53	0.44
1:1A:1935:C:C2'	1:1A:1936:5MU:H5"	2.48	0.44
1:1A:1940:A:H2'	1:1A:1941:OMC:H5"	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2589:G:OP2	1:1A:2589:G:H4'	2.17	0.44
1:1A:2824:C:O2'	27:15:42:PRO:HG2	2.18	0.44
1:1A:2878:G:O2'	1:1A:2879:C:H5'	2.18	0.44
3:1D:53:PHE:CD1	3:1D:219:PRO:O	2.71	0.44
3:1D:181:GLU:HG3	3:1D:272:ALA:O	2.18	0.44
4:1E:39:PRO:HA	4:1E:43:GLY:C	2.43	0.44
6:1G:141:PHE:CE2	6:1G:155:MET:HE3	2.52	0.44
8:1I:31:LEU:CD2	8:1I:38:LEU:HD13	2.28	0.44
8:1I:61:ARG:C	8:1I:63:ALA:N	2.76	0.44
9:1N:13:TRP:CZ2	9:1N:51:PHE:CD2	3.05	0.44
11:1P:23:PRO:HB3	17:1V:80:GLN:O	2.18	0.44
11:1P:50:ARG:HH21	30:18:7:HIS:CD2	2.36	0.44
12:1Q:17:LEU:HD21	12:1Q:96:VAL:HG13	2.00	0.44
14:1S:51:ALA:CB	14:1S:73:LEU:HB2	2.47	0.44
16:1U:47:TYR:HB2	16:1U:50:ARG:NH2	2.33	0.44
16:1U:57:PHE:O	16:1U:58:ARG:C	2.61	0.44
19:1X:1:MET:HE1	24:12:26:ARG:NH2	2.33	0.44
20:1Y:6:HIS:CE1	20:1Y:7:VAL:HG23	2.53	0.44
26:14:69:LYS:HB3	50:1s:20:LEU:HD13	1.99	0.44
32:1a:154:G:N2	32:1a:157:A:OP2	2.37	0.44
32:1a:179:G:H5'	32:1a:220:C:H4'	1.99	0.44
32:1a:292:U:H2'	32:1a:293:G:C5'	2.48	0.44
32:1a:494:A:H1'	32:1a:527:C:O4'	2.18	0.44
32:1a:608:C:H6	32:1a:608:C:O5'	2.01	0.44
32:1a:734:G:H1'	46:1o:22:THR:O	2.18	0.44
32:1a:809:G:H21	39:1h:11:THR:HG21	1.83	0.44
32:1a:810:C:H5'	39:1h:12:ARG:CZ	2.47	0.44
32:1a:1225:C:H2'	32:1a:1226:C:C6	2.53	0.44
33:1b:84:GLU:HA	33:1b:87:ARG:HD3	2.00	0.44
36:1e:6:PHE:CE1	36:1e:36:ASP:HB3	2.52	0.44
37:1f:9:VAL:HG13	37:1f:60:PHE:CE1	2.53	0.44
37:1f:52:ILE:CD1	37:1f:87:ARG:HE	2.31	0.44
38:1g:111:ARG:NH2	38:1g:122:HIS:HB3	2.33	0.44
39:1h:84:ARG:O	39:1h:135:CYS:HB2	2.16	0.44
40:1i:9:ARG:HB3	40:1i:104:ARG:HH21	1.82	0.44
44:1m:45:VAL:CA	44:1m:48:LEU:HG	2.45	0.44
45:1n:4:LYS:HA	45:1n:7:ILE:CG1	2.38	0.44
48:1q:22:LEU:HD13	48:1q:41:LYS:HG2	2.00	0.44
1:2A:250:A:H2'	1:2A:251:C:H5'	2.00	0.44
1:2A:258:A:H2'	1:2A:259:A:O4'	2.18	0.44
1:2A:376:G:H2'	1:2A:377:G:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:386:G:H2'	1:2A:387:A:C8	2.52	0.44
1:2A:470:C:O2'	1:2A:474:A:O2'	2.23	0.44
1:2A:798:A:C2	1:2A:1811:C:H4'	2.53	0.44
1:2A:945:A:O2'	1:2A:946:A:P	2.74	0.44
1:2A:1102:A:C2	1:2A:1103:G:C4	3.06	0.44
1:2A:1228:G:OP1	25:23:30:ARG:HD2	2.18	0.44
1:2A:1450:U:H2'	1:2A:1451:U:C6	2.52	0.44
1:2A:1505:G:H2'	1:2A:1507:G:OP2	2.17	0.44
1:2A:1542:U:O2'	1:2A:1543:C:H5'	2.17	0.44
1:2A:1913:C:C2'	1:2A:1914:C:H5'	2.48	0.44
1:2A:2044:G:H1	1:2A:2061:C:H42	1.64	0.44
1:2A:2119:U:H2'	1:2A:2120:U:O4'	2.18	0.44
1:2A:2189:G:N2	1:2A:2192:A:OP2	2.51	0.44
1:2A:2652:G:H1	1:2A:2785:C:N4	2.16	0.44
1:2A:2694:C:C2'	1:2A:2695:U:H5'	2.48	0.44
1:2A:2819:A:H2'	1:2A:2820:G:C5'	2.48	0.44
3:2D:53:PHE:C	3:2D:54:ARG:HG3	2.43	0.44
4:2E:5:LEU:HD21	4:2E:79:ARG:CB	2.43	0.44
5:2F:205:ARG:O	5:2F:205:ARG:HG2	2.18	0.44
7:2H:24:VAL:O	7:2H:34:GLU:HA	2.18	0.44
8:2I:85:GLU:HG2	8:2I:86:THR:N	2.33	0.44
9:2N:71:ILE:HG23	9:2N:84:LYS:HB3	1.99	0.44
12:2Q:97:VAL:HG11	12:2Q:103:MET:HE3	2.00	0.44
16:2U:90:VAL:HG12	16:2U:95:LEU:CD1	2.43	0.44
17:2V:65:GLY:C	17:2V:91:TYR:CE1	2.96	0.44
18:2W:51:LEU:O	18:2W:54:ALA:HB3	2.17	0.44
20:2Y:32:PRO:C	20:2Y:35:TYR:H	2.26	0.44
21:2Z:45:ASP:CG	21:2Z:49:ARG:HE	2.26	0.44
21:2Z:155:LEU:O	21:2Z:157:LEU:N	2.51	0.44
32:2a:38:U:O2'	32:2a:39:G:H5'	2.17	0.44
32:2a:53:G:O2'	32:2a:54:A:H5'	2.18	0.44
32:2a:68:C:H2'	32:2a:69:G:C8	2.52	0.44
32:2a:372:G:H1	32:2a:383:U:H3	1.66	0.44
32:2a:420:G:C2'	32:2a:421:G:H5'	2.48	0.44
32:2a:421:G:C2'	32:2a:422:G:H5'	2.48	0.44
32:2a:640:C:H2'	32:2a:641:G:O4'	2.17	0.44
32:2a:733:C:P	32:2a:733:C:H3'	2.58	0.44
32:2a:917:G:H2'	32:2a:918:C:H5'	1.99	0.44
32:2a:956:A:OP1	32:2a:1343:G:N1	2.49	0.44
32:2a:1069:U:H3	32:2a:1082:G:H22	1.66	0.44
32:2a:1133:U:O2'	32:2a:1134:A:H5'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1208:C:OP2	44:2m:103:THR:HG21	2.17	0.44
32:2a:1226:C:O2	32:2a:1275:G:N1	2.50	0.44
32:2a:1345:C:P	32:2a:1346:A:H2'	2.57	0.44
33:2b:121:LEU:HG	33:2b:127:ILE:HG22	1.97	0.44
35:2d:5:ILE:O	35:2d:5:ILE:HG23	2.18	0.44
35:2d:12:CYS:SG	35:2d:19:LEU:O	2.76	0.44
37:2f:7:ASN:OD1	37:2f:62:TRP:HD1	2.01	0.44
37:2f:19:LEU:CD2	37:2f:23:LYS:HD2	2.48	0.44
41:2j:44:VAL:HG22	41:2j:66:ARG:CG	2.46	0.44
42:2k:58:PRO:HA	42:2k:90:GLY:HA3	2.00	0.44
44:2m:105:THR:O	44:2m:107:ALA:N	2.50	0.44
45:2n:40:CYS:SG	45:2n:42:ILE:HB	2.58	0.44
47:2p:20:VAL:CG2	47:2p:21:VAL:N	2.80	0.44
50:2s:49:ILE:CD1	50:2s:62:ILE:HD13	2.45	0.44
52:2u:18:TYR:CE1	52:2u:22:ARG:NH1	2.86	0.44
1:1A:30:C:N4	59:1A:3984:HOH:O	2.51	0.43
1:1A:231:U:O2'	1:1A:232:A:H5'	2.18	0.43
1:1A:454:A:H8	1:1A:454:A:OP2	2.01	0.43
1:1A:595:G:H1	1:1A:2051:A:H3'	1.82	0.43
1:1A:733:C:O4'	29:17:4:THR:HA	2.18	0.43
1:1A:931:C:H2'	1:1A:932:C:O4'	2.18	0.43
1:1A:1036:C:H42	1:1A:1208:G:H1	1.66	0.43
1:1A:1288:G:O2'	11:1P:7:ARG:CD	2.65	0.43
1:1A:1834:C:N4	1:1A:1843:G:H1	2.15	0.43
1:1A:1847:G:OP1	3:1D:88:ARG:NH2	2.51	0.43
1:1A:2136:G:H2'	1:1A:2138:A:H62	1.83	0.43
1:1A:2294:C:H2'	1:1A:2295:C:H5'	2.00	0.43
1:1A:2685:G:H2'	1:1A:2686:A:H8	1.83	0.43
2:1B:118:G:O2'	2:1B:119:G:H5'	2.17	0.43
3:1D:72:LYS:HD2	3:1D:103:ARG:NH2	2.33	0.43
3:1D:76:PRO:CB	3:1D:116:GLN:HE21	2.31	0.43
8:1I:114:LEU:HA	8:1I:130:TYR:HA	1.98	0.43
9:1N:39:ARG:NH2	9:1N:41:ASP:OD2	2.35	0.43
10:1O:9:GLU:O	10:1O:83:ALA:HA	2.18	0.43
15:1T:121:ILE:O	15:1T:124:ASP:HB2	2.16	0.43
21:1Z:146:ILE:HA	21:1Z:147:GLY:HA2	1.52	0.43
22:10:23:VAL:HG13	22:10:37:LEU:O	2.18	0.43
26:14:28:LYS:C	26:14:30:GLU:N	2.75	0.43
31:19:1:MET:HG2	31:19:2:LYS:O	2.18	0.43
32:1a:225:U:H4'	47:1p:33:ILE:CD1	2.47	0.43
32:1a:494:A:H5"	32:1a:495:C:P	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:671:A:H62	32:1a:687:G:H21	1.66	0.43
32:1a:1149:G:C4	32:1a:1151:A:OP2	2.70	0.43
32:1a:1219:C:C4'	32:1a:1316:G:H21	2.31	0.43
32:1a:1414:C:C2'	32:1a:1415:G:H5'	2.48	0.43
33:1b:222:ILE:HG22	33:1b:226:ARG:HD2	1.99	0.43
34:1c:37:GLN:NE2	45:1n:47:LEU:HD13	2.33	0.43
34:1c:69:HIS:CD2	34:1c:104:GLN:HB3	2.53	0.43
35:1d:92:VAL:O	35:1d:96:LEU:N	2.41	0.43
37:1f:1:MET:HG2	37:1f:68:PRO:HA	2.00	0.43
40:1i:36:TYR:CZ	40:1i:70:LYS:HE2	2.53	0.43
42:1k:93:GLN:O	42:1k:96:ARG:HB2	2.17	0.43
43:1l:82:VAL:HG12	43:1l:105:TYR:HB3	2.00	0.43
44:1m:9:ILE:HD12	44:1m:45:VAL:HG21	2.00	0.43
44:1m:95:GLY:HA2	44:1m:110:ARG:NH2	2.33	0.43
45:1n:29:ARG:HD2	45:1n:42:ILE:HD12	2.00	0.43
47:1p:45:THR:HG23	47:1p:47:ASP:C	2.43	0.43
51:1t:84:LEU:HD23	51:1t:84:LEU:C	2.43	0.43
1:2A:13:A:H8	1:2A:13:A:O5'	2.01	0.43
1:2A:345:A:H5'	1:2A:363:A:H1'	2.00	0.43
1:2A:468:A:OP1	5:2F:46:ARG:N	2.44	0.43
1:2A:788:G:O2'	1:2A:1722:A:H4'	2.18	0.43
1:2A:863:C:H2'	1:2A:864:G:H8	1.83	0.43
1:2A:933:A:H2'	1:2A:935:C:OP2	2.18	0.43
1:2A:1000:G:H2'	1:2A:1001:A:H2'	2.00	0.43
1:2A:1448:C:H2'	1:2A:1449:C:C5'	2.47	0.43
1:2A:1967:U:H6	1:2A:1967:U:O5'	2.01	0.43
1:2A:2018:G:H2'	1:2A:2019:G:H5'	2.00	0.43
1:2A:2118:C:N3	1:2A:2213:G:C6	2.85	0.43
1:2A:2390:G:H2'	14:2S:17:ARG:HH22	1.83	0.43
2:2B:12:C:C2'	22:20:73:GLY:HA3	2.48	0.43
3:2D:29:PRO:HA	3:2D:104:TYR:OH	2.17	0.43
3:2D:125:ILE:CG1	37:2f:81:ILE:HD11	2.48	0.43
4:2E:51:PHE:CG	4:2E:52:LEU:N	2.86	0.43
5:2F:95:ARG:CB	5:2F:97:TYR:CE1	2.93	0.43
6:2G:11:TYR:HD2	6:2G:12:TYR:HD1	1.65	0.43
6:2G:70:VAL:HG11	6:2G:87:PRO:HB3	2.00	0.43
6:2G:174:GLU:HA	6:2G:178:PHE:H	1.82	0.43
9:2N:9:VAL:O	9:2N:9:VAL:HG23	2.18	0.43
14:2S:74:ALA:HA	14:2S:110:LEU:HD13	2.00	0.43
18:2W:29:LEU:HD12	18:2W:51:LEU:HD21	2.00	0.43
20:2Y:37:VAL:O	20:2Y:38:ILE:HD13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:24:61:ARG:HD3	50:2s:42:PRO:CD	2.48	0.43
32:2a:182:C:P	51:2t:82:SER:HG	2.41	0.43
32:2a:483:A:H1'	32:2a:484:G:O4'	2.18	0.43
32:2a:1032:U:H5'	32:2a:1183:A:OP2	2.18	0.43
32:2a:1282:G:H1	32:2a:1317:C:H5'	1.83	0.43
33:2b:111:ARG:O	33:2b:114:ARG:HB3	2.18	0.43
35:2d:31:CYS:HB3	35:2d:34:GLU:HB2	2.00	0.43
35:2d:76:ARG:NH2	35:2d:80:GLU:OE2	2.49	0.43
36:2e:48:ALA:HB2	36:2e:57:LYS:CE	2.48	0.43
43:2l:41:ARG:HG3	43:2l:42:THR:N	2.33	0.43
44:2m:4:ILE:HG13	44:2m:60:VAL:HG11	1.99	0.43
44:2m:33:ALA:HB2	44:2m:59:TYR:HE2	1.83	0.43
1:1A:63:C:C5'	19:1X:71:GLY:HA3	2.47	0.43
1:1A:332:G:N2	1:1A:353:A:O5'	2.51	0.43
1:1A:396:G:H3'	1:1A:449:A:C5	2.54	0.43
1:1A:492:G:O2'	1:1A:842:C:O2'	2.03	0.43
1:1A:737:C:O2'	1:1A:738:C:H5'	2.18	0.43
1:1A:878:G:H5'	11:1P:45:LEU:HD21	1.99	0.43
1:1A:898:G:H8	1:1A:898:G:O5'	2.01	0.43
1:1A:1411:A:C2'	1:1A:1412:A:H5'	2.47	0.43
1:1A:1585:G:H8	1:1A:1585:G:O5'	2.01	0.43
1:1A:2167:C:H1'	1:1A:2168:G:N7	2.33	0.43
1:1A:2322:A:N1	6:1G:44:GLY:HA3	2.33	0.43
1:1A:2353:C:O5'	1:1A:2353:C:H6	2.01	0.43
1:1A:2611:A:O2'	1:1A:2612:C:H5'	2.17	0.43
4:1E:92:THR:O	4:1E:95:ILE:HG12	2.19	0.43
6:1G:108:ASN:O	6:1G:109:VAL:HG23	2.18	0.43
7:1H:89:ILE:CD1	7:1H:96:ALA:HB2	2.48	0.43
10:1O:25:LEU:HD11	10:1O:40:VAL:HG23	2.00	0.43
12:1Q:25:ASP:HA	12:1Q:100:GLY:O	2.18	0.43
15:1T:31:SER:HB2	15:1T:85:LYS:HG2	1.99	0.43
15:1T:117:ASP:O	15:1T:121:ILE:HG13	2.18	0.43
16:1U:50:ARG:HA	16:1U:53:ARG:HE	1.83	0.43
16:1U:79:PHE:CD1	16:1U:79:PHE:C	2.97	0.43
19:1X:93:GLU:O	19:1X:95:LEU:HA	2.18	0.43
26:14:20:ASN:HD22	26:14:36:CYS:CB	2.31	0.43
26:14:57:GLU:HB3	26:14:58:ARG:CD	2.48	0.43
32:1a:461:G:H2'	32:1a:462:G:H5'	2.00	0.43
32:1a:969:U:C1'	32:1a:970:U:OP2	2.63	0.43
32:1a:1063:A:H5"	32:1a:1064:G:OP2	2.18	0.43
32:1a:1174:C:C4	32:1a:1175:G:H1'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1214:U:OP1	40:1i:124:GLN:HG3	2.17	0.43
33:1b:114:ARG:O	33:1b:118:LEU:HG	2.18	0.43
33:1b:208:ILE:CG1	33:1b:209:ARG:H	2.04	0.43
35:1d:73:ARG:C	35:1d:75:PHE:N	2.76	0.43
38:1g:111:ARG:HD2	38:1g:123:GLU:OE2	2.17	0.43
38:1g:115:ARG:O	38:1g:118:VAL:HB	2.18	0.43
44:1m:3:ARG:HG2	44:1m:8:GLU:CD	2.43	0.43
1:2A:72:A:H5'	1:2A:73:G:O4'	2.18	0.43
1:2A:251:C:O2	1:2A:455:A:H2	2.00	0.43
1:2A:421:U:O2'	1:2A:422:G:N7	2.41	0.43
1:2A:484:U:H4'	29:27:40:TRP:CE3	2.53	0.43
1:2A:495:A:OP1	5:2F:59:TYR:CE1	2.67	0.43
1:2A:560:A:H5'	16:2U:53:ARG:HD3	2.00	0.43
1:2A:717:C:H2'	1:2A:718:C:C6	2.53	0.43
1:2A:733:C:O2'	1:2A:734:U:H5'	2.18	0.43
1:2A:854:G:HO2'	1:2A:1299:A:HO2'	1.59	0.43
1:2A:1042:G:C2'	1:2A:1043:C:H5'	2.48	0.43
1:2A:1362:A:H2'	1:2A:1363:C:H6	1.83	0.43
1:2A:1470:G:H2'	1:2A:1471:G:O4'	2.18	0.43
1:2A:1556:A:H2'	1:2A:1557:G:C8	2.52	0.43
1:2A:1715:A:C2	1:2A:2015:C:H1'	2.53	0.43
1:2A:1765:G:H8	1:2A:1769:A:N6	2.15	0.43
1:2A:1802:G:N2	1:2A:1804:C:H5'	2.33	0.43
1:2A:1812:C:H1'	1:2A:2620:U:O4'	2.18	0.43
1:2A:2071:C:H2'	1:2A:2072:A:O4'	2.17	0.43
1:2A:2105:C:C2'	1:2A:2106:C:H5'	2.47	0.43
1:2A:2149:C:H5'	1:2A:2150:C:OP2	2.19	0.43
1:2A:2289:A:C2'	1:2A:2290:G:H5"	2.47	0.43
1:2A:2502:U:O2'	1:2A:2581:G:OP1	2.22	0.43
1:2A:2570:C:O2'	1:2A:2571:C:H5'	2.17	0.43
1:2A:2635:G:C2'	1:2A:2636:G:H5'	2.48	0.43
1:2A:2690:A:P	4:2E:160:TYR:HH	2.32	0.43
1:2A:2742:C:O2'	4:2E:168:MET:O	2.23	0.43
1:2A:2873:G:OP1	15:2T:119:LYS:HD3	2.18	0.43
2:2B:19:G:H1	2:2B:64:C:N4	2.15	0.43
7:2H:55:PRO:HG2	7:2H:61:HIS:CG	2.53	0.43
7:2H:105:LEU:HD12	7:2H:107:VAL:HG13	1.99	0.43
9:2N:110:GLY:O	9:2N:114:ARG:HG3	2.18	0.43
13:2R:14:SER:O	13:2R:16:HIS:N	2.51	0.43
25:23:7:LYS:H	25:23:54:VAL:HG23	1.80	0.43
26:24:14:ILE:O	26:24:15:ILE:HD13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:24:59:PHE:HZ	50:2s:67:VAL:HG21	1.83	0.43
31:29:3:VAL:HA	31:29:35:ARG:O	2.18	0.43
32:2a:162:G:H2'	32:2a:163:G:C8	2.53	0.43
32:2a:557:A:O5'	32:2a:557:A:H8	2.02	0.43
32:2a:565:G:O2'	32:2a:566:U:O5'	2.36	0.43
32:2a:605:A:H8	32:2a:605:A:O5'	2.02	0.43
32:2a:608:C:H4'	47:2p:11:SER:HB3	2.00	0.43
32:2a:843:A:H5'	32:2a:1061:U:H5	1.81	0.43
32:2a:988:G:N3	32:2a:988:G:H2'	2.33	0.43
32:2a:1243:A:H5'	32:2a:1266:C:P	2.58	0.43
33:2b:9:GLU:HG3	33:2b:10:LEU:N	2.34	0.43
33:2b:121:LEU:O	33:2b:127:ILE:HG23	2.18	0.43
33:2b:122:PHE:O	33:2b:125:PRO:HD2	2.17	0.43
34:2c:130:VAL:CG2	34:2c:157:ILE:HG23	2.48	0.43
34:2c:138:VAL:O	34:2c:142:MET:HG2	2.18	0.43
34:2c:149:ALA:O	34:2c:150:LYS:HB2	2.18	0.43
34:2c:186:PHE:HB2	34:2c:199:LYS:HG2	2.00	0.43
39:2h:9:MET:HG3	39:2h:26:VAL:HG11	2.00	0.43
40:2i:114:TYR:CD2	41:2j:60:ARG:HB2	2.54	0.43
41:2j:38:ILE:HD11	41:2j:71:LEU:CB	2.35	0.43
46:2o:15:PHE:HB2	46:2o:27:VAL:HG22	2.00	0.43
48:2q:56:VAL:O	48:2q:77:VAL:HG22	2.18	0.43
48:2q:74:LEU:HD23	48:2q:74:LEU:C	2.43	0.43
49:2r:37:VAL:HG13	49:2r:38:GLU:N	2.32	0.43
51:2t:63:ILE:HD12	51:2t:81:LYS:HG2	1.99	0.43
1:1A:326:U:O2'	1:1A:327:G:H5'	2.18	0.43
1:1A:398:G:H5'	23:11:66:HIS:CD2	2.53	0.43
1:1A:793:U:O2'	18:1W:92:ARG:NH2	2.51	0.43
1:1A:1092:G:H2'	1:1A:1093:A:OP2	2.19	0.43
1:1A:2188:U:H2'	1:1A:2189:G:N9	2.32	0.43
2:1B:78:A:C2'	2:1B:79:C:H5'	2.48	0.43
3:1D:93:ALA:N	3:1D:105:ILE:O	2.42	0.43
5:1F:133:ASN:C	5:1F:162:LEU:HD23	2.43	0.43
6:1G:15:VAL:HG21	6:1G:176:LEU:CD2	2.43	0.43
7:1H:99:VAL:O	7:1H:101:ARG:N	2.51	0.43
7:1H:101:ARG:NH2	7:1H:121:ILE:O	2.52	0.43
9:1N:110:GLY:O	9:1N:114:ARG:HB2	2.19	0.43
10:1O:22:ILE:HG12	10:1O:40:VAL:O	2.18	0.43
10:1O:73:ASP:OD1	10:1O:75:SER:OG	2.35	0.43
12:1Q:135:ASP:O	12:1Q:138:ASP:HB2	2.18	0.43
14:1S:53:SER:CA	14:1S:58:LEU:HD12	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1T:19:LEU:HD22	15:1T:86:ILE:HD12	1.99	0.43
15:1T:24:PRO:HA	15:1T:49:VAL:HG23	1.99	0.43
16:1U:49:HIS:O	16:1U:52:ARG:N	2.48	0.43
21:1Z:40:ASP:O	21:1Z:41:LEU:C	2.61	0.43
32:1a:177:U:C4	32:1a:178:G:H1'	2.54	0.43
32:1a:236:C:O2'	32:1a:237:C:H5'	2.18	0.43
32:1a:447:A:O2'	32:1a:448:A:H8	2.01	0.43
32:1a:694:G:O2'	32:1a:695:G:H5'	2.18	0.43
32:1a:918:C:C2'	32:1a:919:G:H5'	2.48	0.43
32:1a:1040:G:H2'	32:1a:1041:G:H5'	1.99	0.43
32:1a:1125:G:H2'	32:1a:1126:G:C5'	2.48	0.43
32:1a:1146:C:H2'	32:1a:1147:G:C5'	2.49	0.43
32:1a:1173:A:OP1	34:1c:4:LYS:HD3	2.18	0.43
32:1a:1189:2MG:O2'	32:1a:1190:C:O5'	2.36	0.43
32:1a:1470:A:H4'	32:1a:1471:A:C2	2.53	0.43
33:1b:124:SER:O	33:1b:125:PRO:C	2.61	0.43
34:1c:133:ALA:HA	34:1c:136:GLN:CG	2.48	0.43
34:1c:201:TYR:HD1	34:1c:201:TYR:N	2.17	0.43
41:1j:9:ARG:N	41:1j:95:GLU:O	2.52	0.43
42:1k:53:SER:O	42:1k:56:GLY:N	2.51	0.43
46:1o:43:LEU:CD1	46:1o:56:LEU:HD22	2.48	0.43
47:1p:9:PHE:HE2	47:1p:18:ARG:CZ	2.31	0.43
52:1u:6:ARG:HE	52:1u:15:ARG:NH1	2.15	0.43
1:2A:357:C:O2'	1:2A:358:C:OP2	2.34	0.43
1:2A:381:U:O2'	1:2A:382:A:H5'	2.18	0.43
1:2A:401:C:O5'	1:2A:401:C:H6	2.01	0.43
1:2A:433:G:H2'	1:2A:434:G:C8	2.53	0.43
1:2A:489:U:H2'	1:2A:490:G:O4'	2.18	0.43
1:2A:747:G:C2'	1:2A:748:G:H5'	2.48	0.43
1:2A:873:U:O2'	1:2A:2089:U:C2	2.70	0.43
1:2A:985:A:H2'	1:2A:986:G:O4'	2.19	0.43
1:2A:1191:C:H2'	1:2A:1192:C:H5'	2.00	0.43
1:2A:1596:C:C2'	1:2A:1597:C:H5'	2.48	0.43
1:2A:1708:C:O2	1:2A:2698:U:H4'	2.18	0.43
1:2A:2142:G:N2	1:2A:2143:U:H1'	2.32	0.43
1:2A:2269:C:O2'	1:2A:2438:C:OP2	2.32	0.43
1:2A:2358:C:OP1	1:2A:2358:C:H4'	2.18	0.43
1:2A:2489:A:OP2	31:29:2:LYS:NZ	2.48	0.43
1:2A:2542:A:H61	1:2A:2673:A:N6	2.03	0.43
2:2B:117:G:H5'	14:2S:55:ALA:HB2	1.99	0.43
3:2D:111:LEU:HD23	3:2D:115:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:157:VAL:HG13	5:2F:178:PRO:HA	2.00	0.43
6:2G:61:ALA:O	6:2G:65:GLY:N	2.51	0.43
8:2I:77:LEU:O	8:2I:142:VAL:HA	2.18	0.43
12:2Q:15:GLY:C	12:2Q:16:ARG:HG2	2.43	0.43
13:2R:64:ARG:HA	13:2R:67:LEU:HB3	2.00	0.43
28:26:48:VAL:O	28:26:48:VAL:HG13	2.18	0.43
30:28:37:SER:O	30:28:41:ILE:HG12	2.19	0.43
32:2a:7:G:O6	36:2e:94:ALA:HA	2.19	0.43
32:2a:219:U:H2'	32:2a:220:C:C6	2.54	0.43
32:2a:409:G:O6	35:2d:35:ARG:CD	2.63	0.43
32:2a:578:G:O2'	32:2a:579:G:H5'	2.18	0.43
32:2a:1019:G:H3'	32:2a:1020:C:H6	1.82	0.43
32:2a:1207:A:O2'	32:2a:1208:C:C6	2.68	0.43
32:2a:1210:C:P	44:2m:115:LYS:HB2	2.58	0.43
32:2a:1435:G:H2'	32:2a:1436:G:H8	1.84	0.43
32:2a:1450:U:O2'	32:2a:1451:A:H5'	2.17	0.43
34:2c:9:GLY:HA3	45:2n:49:HIS:HA	1.99	0.43
34:2c:121:ALA:O	34:2c:189:ALA:HB2	2.18	0.43
36:2e:42:GLY:HA2	36:2e:136:MET:CE	2.47	0.43
36:2e:78:HIS:HB2	39:2h:104:ARG:CD	2.48	0.43
40:2i:20:ARG:N	40:2i:60:ASP:O	2.51	0.43
42:2k:58:PRO:HA	42:2k:90:GLY:CA	2.48	0.43
42:2k:103:LEU:O	42:2k:105:VAL:N	2.51	0.43
44:2m:13:LYS:HB2	44:2m:18:ALA:HB2	1.99	0.43
1:1A:8:U:O4	1:1A:2640:A:H2	2.01	0.43
1:1A:42:A:O5'	1:1A:42:A:H8	2.02	0.43
1:1A:122:G:H4'	1:1A:123:A:OP2	2.19	0.43
1:1A:188:U:C2'	1:1A:189:C:H5'	2.45	0.43
1:1A:281:G:O2'	1:1A:282:G:H5'	2.18	0.43
1:1A:323:A:C4	1:1A:357:C:H1'	2.53	0.43
1:1A:899:G:H1	1:1A:969:C:H42	1.66	0.43
1:1A:922:C:H2'	1:1A:923:U:O4'	2.19	0.43
1:1A:1046:A:H2'	1:1A:1047:G:H5'	1.99	0.43
1:1A:1111:U:O4	1:1A:1114:A:H8	2.02	0.43
1:1A:1237:G:OP1	11:1P:14:LYS:NZ	2.37	0.43
1:1A:1368:U:H5"	1:1A:1369:G:OP2	2.18	0.43
1:1A:1646:G:OP2	19:1X:58:HIS:HD2	2.00	0.43
1:1A:1883:A:O2'	1:1A:1884:A:H5'	2.19	0.43
1:1A:2114:G:H5'	8:1I:22:LYS:HD3	2.00	0.43
1:1A:2116:C:H2'	1:1A:2117:U:H6	1.83	0.43
1:1A:2205:G:O2'	1:1A:2206:C:O5'	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2758:U:H2'	1:1A:2759:G:C5'	2.44	0.43
2:1B:85:G:O6	59:1B:311:HOH:O	2.20	0.43
3:1D:180:GLY:HA3	3:1D:275:LYS:HE3	2.00	0.43
4:1E:9:VAL:HG12	15:1T:1:MET:CE	2.44	0.43
4:1E:178:GLU:H	4:1E:178:GLU:CD	2.27	0.43
7:1H:26:VAL:HG12	7:1H:79:VAL:HG21	2.00	0.43
10:1O:85:VAL:O	10:1O:87:ILE:HG23	2.18	0.43
11:1P:135:LEU:O	11:1P:138:LEU:N	2.51	0.43
13:1R:103:ARG:CD	18:1W:40:ASN:ND2	2.81	0.43
20:1Y:7:VAL:HG11	20:1Y:13:VAL:HG11	2.00	0.43
21:1Z:40:ASP:O	21:1Z:43:GLU:N	2.51	0.43
32:1a:23:G:H2'	32:1a:24:C:H6	1.84	0.43
32:1a:77:G:O2'	32:1a:78:G:OP2	2.28	0.43
32:1a:260:U:C2'	32:1a:261:G:H5'	2.48	0.43
32:1a:349:A:C2'	32:1a:350:G:OP2	2.67	0.43
32:1a:398:G:C2'	32:1a:399:C:H5'	2.49	0.43
32:1a:504:A:H62	32:1a:513:G:H21	1.65	0.43
32:1a:532:G:C2'	32:1a:533:C:H5'	2.49	0.43
32:1a:982:G:C2'	32:1a:983:A:O5'	2.66	0.43
32:1a:1108:U:C6	41:1j:38:ILE:HD13	2.54	0.43
32:1a:1159:G:H2'	32:1a:1160:G:H5'	1.99	0.43
32:1a:1255:G:C2	32:1a:1256:G:H1'	2.53	0.43
32:1a:1261:A:O2'	32:1a:1263:U:OP2	2.22	0.43
32:1a:1492:C:O2'	32:1a:1493:C:H5'	2.18	0.43
33:1b:167:PRO:HG2	33:1b:192:SER:CB	2.48	0.43
33:1b:208:ILE:O	33:1b:209:ARG:C	2.62	0.43
34:1c:26:LYS:HG2	34:1c:26:LYS:O	2.18	0.43
34:1c:71:ALA:HB2	34:1c:109:PRO:HB3	2.01	0.43
36:1e:27:ARG:C	36:1e:28:PHE:HD1	2.26	0.43
36:1e:105:VAL:CG2	36:1e:128:PRO:HB3	2.48	0.43
38:1g:79:ARG:HA	38:1g:83:ALA:O	2.17	0.43
40:1i:5:TYR:CD1	40:1i:18:PHE:CD1	3.06	0.43
42:1k:20:TYR:N	42:1k:20:TYR:CD1	2.85	0.43
43:1l:8:ASN:O	43:1l:11:VAL:HB	2.19	0.43
44:1m:16:ASP:HA	44:1m:34:LEU:HD11	2.01	0.43
44:1m:78:ILE:O	44:1m:81:LEU:HB2	2.18	0.43
47:1p:11:SER:N	47:1p:14:ASN:HB3	2.30	0.43
48:1q:6:LEU:CD2	48:1q:42:TYR:CE2	3.02	0.43
50:1s:19:VAL:CG1	50:1s:44:MET:HG2	2.45	0.43
1:2A:175:G:O6	59:2A:3905:HOH:O	2.21	0.43
1:2A:253:A:H4'	1:2A:254:G:OP1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:366:C:O2'	1:2A:367:G:H5'	2.18	0.43
1:2A:664:C:O2'	1:2A:665:C:H5'	2.19	0.43
1:2A:1015:C:O2'	1:2A:1028:A:N3	2.51	0.43
1:2A:1053:C:O2	1:2A:1054:A:N6	2.46	0.43
1:2A:1079:G:H8	1:2A:1079:G:O5'	2.02	0.43
1:2A:1234:G:OP1	11:2P:30:THR:OG1	2.29	0.43
1:2A:1235:G:O2'	1:2A:1236:G:H5'	2.19	0.43
1:2A:1308:U:H2'	1:2A:1309:G:O4'	2.18	0.43
1:2A:1555:A:H2'	1:2A:1556:A:O5'	2.18	0.43
1:2A:2114:G:O2'	1:2A:2115:G:H5'	2.18	0.43
1:2A:2152:G:N7	1:2A:2179:A:N6	2.67	0.43
1:2A:2416:G:O2'	1:2A:2422:A:N6	2.51	0.43
1:2A:2640:A:H1'	1:2A:2641:G:C5'	2.46	0.43
1:2A:2834:C:H2'	1:2A:2835:A:H5'	2.01	0.43
1:2A:2855:G:OP2	15:2T:54:ARG:HB2	2.18	0.43
1:2A:2858:U:OP2	15:2T:95:ARG:NH1	2.52	0.43
2:2B:114:C:O2'	14:2S:47:THR:N	2.52	0.43
4:2E:5:LEU:HD23	4:2E:197:ILE:HG12	2.00	0.43
4:2E:103:ASP:OD1	4:2E:168:MET:HA	2.18	0.43
6:2G:104:GLU:O	6:2G:108:ASN:HB2	2.19	0.43
6:2G:106:LEU:HA	6:2G:110:ALA:CB	2.48	0.43
7:2H:99:VAL:CG2	7:2H:104:GLU:HB2	2.48	0.43
8:2I:85:GLU:O	8:2I:123:LEU:HD22	2.18	0.43
8:2I:96:ASP:O	8:2I:99:GLU:HB2	2.18	0.43
16:2U:80:ILE:HA	16:2U:83:LEU:HB2	2.00	0.43
19:2X:92:LEU:O	19:2X:94:GLY:N	2.42	0.43
23:21:83:GLU:HA	23:21:84:GLY:HA2	1.60	0.43
25:23:23:LEU:HD12	25:23:23:LEU:H	1.83	0.43
32:2a:568:G:H5'	48:2q:91:ARG:HH22	1.81	0.43
32:2a:574:C:H42	32:2a:633:G:H1	1.65	0.43
32:2a:721:A:O2'	37:2f:72:VAL:HG21	2.17	0.43
32:2a:1176:U:H4'	36:2e:22:GLY:HA3	1.99	0.43
32:2a:1384:G:O6	32:2a:1482:G:N2	2.51	0.43
32:2a:1472:G:O2'	32:2a:1473:U:H5'	2.18	0.43
32:2a:1502:C:O2'	32:2a:1503:G:H5'	2.18	0.43
33:2b:144:ARG:O	33:2b:147:LYS:HB2	2.19	0.43
36:2e:61:TYR:O	36:2e:65:ASN:N	2.41	0.43
39:2h:4:ASP:OD1	39:2h:6:ILE:HB	2.18	0.43
40:2i:82:ALA:HA	40:2i:85:LEU:CG	2.48	0.43
41:2j:65:LEU:HD12	45:2n:56:VAL:HG22	1.99	0.43
42:2k:60:ALA:O	42:2k:64:ALA:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2k:99:GLN:CG	42:2k:105:VAL:HG11	2.49	0.43
43:2l:27:LEU:HD12	43:2l:27:LEU:N	2.34	0.43
48:2q:45:HIS:HE2	48:2q:47:PRO:HB3	1.82	0.43
48:2q:76:LEU:HG	48:2q:77:VAL:N	2.34	0.43
1:1A:25:G:C6	1:1A:26:G:N1	2.86	0.43
1:1A:313:G:H2'	1:1A:314:C:O4'	2.19	0.43
1:1A:995:C:O2'	1:1A:996:G:H5'	2.19	0.43
1:1A:1119:G:H4'	12:1Q:59:ARG:HH21	1.82	0.43
1:1A:1358:U:H2'	1:1A:1655:A:C2	2.52	0.43
1:1A:1387:A:H2	1:1A:1441:U:O2'	2.02	0.43
1:1A:1700:A:H2	4:1E:113:PHE:CE2	2.36	0.43
1:1A:2554:G:H2'	1:1A:2555:G:C8	2.54	0.43
1:1A:2796:C:H4'	4:1E:42:ASP:OD1	2.19	0.43
2:1B:82:G:C2'	2:1B:83:G:H5'	2.48	0.43
3:1D:126:GLN:C	3:1D:193:VAL:HG21	2.44	0.43
4:1E:29:GLY:HA3	59:1E:410:HOH:O	2.17	0.43
4:1E:116:VAL:CG2	4:1E:122:PHE:CD2	3.01	0.43
5:1F:53:THR:HG22	5:1F:56:GLU:CD	2.42	0.43
5:1F:115:ALA:O	5:1F:118:ALA:HB3	2.19	0.43
6:1G:106:LEU:O	6:1G:110:ALA:HB3	2.18	0.43
7:1H:11:VAL:CG2	7:1H:50:VAL:HG23	2.49	0.43
8:1I:129:THR:HA	8:1I:138:ILE:O	2.18	0.43
9:1N:54:VAL:HG11	9:1N:99:LEU:HD13	2.00	0.43
16:1U:66:ASN:HB2	16:1U:76:TYR:HB2	2.00	0.43
27:15:42:PRO:O	27:15:43:HIS:HB2	2.19	0.43
32:1a:292:U:O2'	32:1a:293:G:H5'	2.18	0.43
32:1a:299:A:H2'	32:1a:300:U:O4'	2.18	0.43
32:1a:307:C:C2'	32:1a:308:C:H5'	2.48	0.43
32:1a:345:A:C2'	32:1a:346:G:H5'	2.48	0.43
32:1a:614:G:H2'	32:1a:615:G:O4'	2.18	0.43
32:1a:734:G:C2	46:1o:23:GLY:HA3	2.54	0.43
32:1a:755:G:O2'	32:1a:756:U:H5'	2.18	0.43
32:1a:837:A:C2	32:1a:838:A:H1'	2.53	0.43
32:1a:887:A:H2'	32:1a:888:C:H5'	2.00	0.43
32:1a:943:A:H4'	32:1a:944:M2G:O5'	2.19	0.43
32:1a:951:G:OP2	32:1a:952:A:H2'	2.18	0.43
32:1a:961:A:H3'	32:1a:961:A:N3	2.33	0.43
32:1a:1073:U:C2'	32:1a:1074:U:H5'	2.48	0.43
32:1a:1219:C:H4'	32:1a:1316:G:N2	2.34	0.43
32:1a:1307:C:OP1	52:1u:15:ARG:HD2	2.19	0.43
32:1a:1350:C:P	40:1i:112:LYS:NZ	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:188:ALA:HB1	33:1b:192:SER:HB2	2.00	0.43
35:1d:33:MET:HA	35:1d:37:PRO:CA	2.49	0.43
35:1d:114:ARG:O	35:1d:118:ARG:N	2.38	0.43
35:1d:206:PHE:CD2	35:1d:207:TYR:CD1	3.07	0.43
36:1e:132:ALA:O	36:1e:135:THR:HB	2.18	0.43
37:1f:61:LEU:O	37:1f:62:TRP:HB2	2.18	0.43
47:1p:6:LEU:CD2	47:1p:17:TYR:HD2	2.31	0.43
49:1r:43:PHE:N	49:1r:43:PHE:HD1	2.17	0.43
49:1r:70:ILE:HG23	49:1r:79:LEU:HD12	2.01	0.43
1:2A:25:G:O2'	1:2A:26:G:H5'	2.18	0.43
1:2A:108:A:H4'	24:22:69:ARG:NH1	2.34	0.43
1:2A:413:U:H2'	23:21:20:ARG:HH12	1.83	0.43
1:2A:628:U:H2'	1:2A:629:U:C4'	2.49	0.43
1:2A:655:A:H1'	11:2P:66:GLY:HA2	2.00	0.43
1:2A:943:C:H2'	1:2A:944:A:C5'	2.47	0.43
1:2A:1128:U:H6	1:2A:1128:U:O5'	2.02	0.43
1:2A:1184:C:P	9:2N:24:GLY:H	2.41	0.43
1:2A:1353:A:H62	1:2A:1651:G:N2	2.16	0.43
1:2A:1570:G:C2	1:2A:1571:G:C4	3.06	0.43
1:2A:1576:C:H42	1:2A:1586:U:H3	1.67	0.43
1:2A:1613:A:N7	3:2D:84:TYR:HE2	2.15	0.43
1:2A:2374:C:H2'	1:2A:2375:C:H5'	2.01	0.43
1:2A:2643:A:O2'	1:2A:2820:G:O2'	2.04	0.43
1:2A:2824:C:H2'	1:2A:2825:C:C6	2.52	0.43
56:2A:3553:FSD:CAS	12:2Q:80:GLU:O	2.66	0.43
2:2B:21:G:H1	2:2B:62:C:N4	2.15	0.43
2:2B:55:U:H2'	2:2B:56:G:O4'	2.18	0.43
3:2D:79:VAL:CG1	3:2D:113:VAL:HA	2.48	0.43
3:2D:260:ARG:NH2	3:2D:266:SER:OG	2.51	0.43
4:2E:9:VAL:HG13	4:2E:10:GLY:N	2.33	0.43
4:2E:94:GLU:HG2	4:2E:177:PRO:HG3	2.00	0.43
4:2E:113:PHE:CD1	4:2E:158:GLY:HA2	2.54	0.43
6:2G:38:VAL:CG2	6:2G:93:THR:HG23	2.46	0.43
6:2G:125:PHE:CD1	6:2G:131:TYR:CD1	3.06	0.43
7:2H:124:GLU:O	7:2H:131:VAL:HG13	2.18	0.43
8:2I:31:LEU:H	8:2I:31:LEU:HD12	1.84	0.43
9:2N:11:PRO:HG2	9:2N:51:PHE:CE2	2.54	0.43
9:2N:111:PRO:O	9:2N:114:ARG:HB2	2.19	0.43
15:2T:28:VAL:CG1	15:2T:86:ILE:HG23	2.48	0.43
15:2T:98:LYS:HB3	15:2T:100:TYR:CE2	2.53	0.43
17:2V:35:LEU:HD12	17:2V:35:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2X:44:GLU:O	19:2X:48:LYS:N	2.48	0.43
21:2Z:159:PRO:C	21:2Z:161:VAL:H	2.26	0.43
32:2a:174:A:H2'	32:2a:175:U:C6	2.53	0.43
32:2a:291:C:H2'	32:2a:292:U:O4'	2.19	0.43
32:2a:421:G:O2'	32:2a:422:G:H5'	2.19	0.43
32:2a:516:A:H2'	32:2a:517:A:OP1	2.18	0.43
32:2a:526:G:P	35:2d:10:ARG:HH12	2.41	0.43
32:2a:725:G:O3'	46:2o:59:MET:HE3	2.18	0.43
32:2a:729:C:O2'	32:2a:730:A:H5'	2.18	0.43
32:2a:808:C:H2'	32:2a:809:G:C8	2.53	0.43
32:2a:1037:C:C4'	32:2a:1038:A:H5"	2.49	0.43
32:2a:1184:G:H2'	32:2a:1185:C:H5'	1.99	0.43
32:2a:1194:U:H4'	32:2a:1195:A:O5'	2.19	0.43
32:2a:1300:A:O2'	50:2s:37:ARG:HG3	2.18	0.43
32:2a:1421:G:O2'	32:2a:1422:C:H5'	2.18	0.43
38:2g:50:ILE:CG1	38:2g:58:PRO:HG3	2.48	0.43
41:2j:39:PRO:HB3	41:2j:70:ARG:NH1	2.32	0.43
46:2o:29:VAL:HG22	46:2o:66:LEU:HD22	2.00	0.43
49:2r:66:LEU:O	49:2r:67:ALA:C	2.60	0.43
50:2s:20:LEU:HA	50:2s:23:ASN:HD22	1.84	0.43
50:2s:41:VAL:HG22	50:2s:42:PRO:CD	2.46	0.43
1:1A:252:C:O4'	1:1A:455:A:H2	2.01	0.43
1:1A:286:G:N7	1:1A:447:U:H2'	2.33	0.43
1:1A:327:G:O2'	1:1A:328:U:H5'	2.19	0.43
1:1A:473:U:C4	1:1A:605:G:H1'	2.53	0.43
1:1A:715:G:H5'	1:1A:716:A:OP2	2.19	0.43
1:1A:775:G:O5'	3:1D:208:LYS:NZ	2.47	0.43
1:1A:1054:A:P	9:1N:37:LYS:NZ	2.92	0.43
1:1A:1351:C:C2'	1:1A:1352:A:H5'	2.48	0.43
1:1A:1910:A:H1'	1:1A:2108:G:O4'	2.19	0.43
1:1A:1941:OMC:O2	1:1A:1941:OMC:H2'	2.17	0.43
1:1A:2127:G:H2'	1:1A:2128:C:O4'	2.18	0.43
1:1A:2163:C:H2'	1:1A:2164:C:C6	2.54	0.43
1:1A:2274:C:O2'	1:1A:2275:C:H5'	2.18	0.43
1:1A:2335:C:O2'	1:1A:2348:G:H5"	2.19	0.43
1:1A:2388:A:H2'	1:1A:2389:A:C8	2.53	0.43
1:1A:2551:C:O2	1:1A:2752:A:H2	2.01	0.43
1:1A:2893:U:H2'	1:1A:2894:C:C5'	2.48	0.43
2:1B:81:G:O2'	59:1B:306:HOH:O	2.08	0.43
5:1F:17:ARG:HG2	5:1F:17:ARG:O	2.17	0.43
6:1G:35:GLU:N	6:1G:160:VAL:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:111:LEU:HD11	6:1G:120:LEU:CD2	2.43	0.43
6:1G:143:GLU:HA	26:14:28:LYS:HZ2	1.84	0.43
11:1P:47:ASP:CG	11:1P:49:ARG:HE	2.26	0.43
12:1Q:46:GLN:O	12:1Q:49:ALA:HB3	2.19	0.43
14:1S:61:ASN:ND2	14:1S:64:GLU:HG3	2.34	0.43
15:1T:101:PHE:HD2	15:1T:105:LEU:HD11	1.83	0.43
20:1Y:20:TYR:N	20:1Y:20:TYR:HD1	2.16	0.43
21:1Z:28:MET:HG3	21:1Z:37:VAL:HG11	2.01	0.43
21:1Z:53:ILE:HD11	21:1Z:99:TYR:CD2	2.53	0.43
21:1Z:152:ALA:HB3	21:1Z:167:PRO:HA	2.01	0.43
25:13:10:LYS:HZ3	25:13:15:TYR:HH	1.57	0.43
30:18:58:ILE:HG13	59:18:206:HOH:O	2.18	0.43
32:1a:20:C:H4'	32:1a:842:A:O4'	2.19	0.43
32:1a:21:U:C2'	32:1a:22:G:H5'	2.49	0.43
32:1a:137:G:H1	32:1a:217:C:H42	1.67	0.43
32:1a:179:G:H2'	32:1a:180:A:H8	1.83	0.43
32:1a:360:A:H2'	32:1a:361:U:O2	2.19	0.43
32:1a:565:G:O2'	32:1a:566:U:H5'	2.18	0.43
32:1a:799:A:O2'	32:1a:1504:G:N2	2.47	0.43
32:1a:953:A:H4'	32:1a:1340:U:O2	2.18	0.43
32:1a:1141:C:H5	32:1a:1163:G:H22	1.65	0.43
32:1a:1216:C:O4'	32:1a:1347:U:H1'	2.19	0.43
32:1a:1240:G:O2'	32:1a:1241:C:H5'	2.18	0.43
32:1a:1294:G:H2'	32:1a:1295:U:H6	1.84	0.43
33:1b:138:LEU:HA	33:1b:141:GLU:HB3	2.00	0.43
35:1d:73:ARG:O	35:1d:76:ARG:N	2.42	0.43
44:1m:49:THR:HG22	44:1m:51:ALA:H	1.83	0.43
46:1o:63:ARG:HG2	46:1o:67:LEU:HD11	2.01	0.43
48:1q:59:ILE:HD12	48:1q:71:PHE:HD2	1.84	0.43
1:2A:54:A:C2'	1:2A:55:C:H5'	2.48	0.43
1:2A:273:U:H2'	1:2A:273:U:OP2	2.19	0.43
1:2A:473:U:H5"	59:2A:3977:HOH:O	2.18	0.43
1:2A:770:U:H2'	1:2A:771:G:C5'	2.49	0.43
1:2A:790:G:H2'	1:2A:791:G:H5'	2.00	0.43
1:2A:908:G:H4'	2:2B:79:C:C4'	2.48	0.43
1:2A:969:C:H2'	1:2A:970:C:H6	1.82	0.43
1:2A:991:G:H2'	1:2A:992:G:C8	2.54	0.43
1:2A:1013:U:O5'	1:2A:1013:U:H6	2.00	0.43
1:2A:1715:A:O2'	1:2A:2560:G:H5'	2.18	0.43
1:2A:1820:C:H5"	1:2A:1821:A:P	2.58	0.43
1:2A:2127:G:N1	1:2A:2204:C:O2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2161:C:H2'	1:2A:2162:G:C8	2.53	0.43
1:2A:2537:G:C2'	31:29:1:MET:H1	2.31	0.43
1:2A:2893:U:O2	27:25:53:ALA:HA	2.18	0.43
3:2D:260:ARG:HH22	3:2D:266:SER:HG	1.67	0.43
10:2O:6:THR:O	10:2O:20:MET:HA	2.19	0.43
10:2O:9:GLU:N	10:2O:82:ASN:O	2.46	0.43
12:2Q:77:LYS:HB3	12:2Q:81:VAL:HG21	2.01	0.43
13:2R:55:ALA:CB	13:2R:80:PHE:CD1	3.01	0.43
14:2S:87:PHE:CZ	14:2S:102:ALA:HB2	2.54	0.43
21:2Z:77:ASP:O	21:2Z:79:ARG:N	2.52	0.43
22:20:26:TYR:N	22:20:26:TYR:HD1	2.17	0.43
30:28:40:GLU:O	30:28:44:LYS:HG3	2.19	0.43
32:2a:42:G:O2'	32:2a:43:G:H5'	2.19	0.43
32:2a:162:G:H2'	32:2a:163:G:H8	1.82	0.43
32:2a:188:C:H2'	32:2a:189:U:O4'	2.19	0.43
32:2a:372:G:O3'	47:2p:5:ARG:NH1	2.31	0.43
32:2a:495:C:O2'	32:2a:496:U:H5"	2.19	0.43
32:2a:516:A:C2'	32:2a:517:A:OP1	2.66	0.43
32:2a:646:G:O2'	32:2a:647:A:H5'	2.19	0.43
32:2a:738:C:O2	32:2a:738:C:C2'	2.66	0.43
32:2a:1044:G:C5'	41:2j:59:SER:HB2	2.48	0.43
32:2a:1297:U:H2'	32:2a:1342:A:C2	2.53	0.43
32:2a:1392:C:C2'	32:2a:1393:G:H5'	2.47	0.43
33:2b:71:VAL:HA	33:2b:93:VAL:HG23	2.01	0.43
33:2b:200:ILE:C	33:2b:201:ILE:HD12	2.44	0.43
34:2c:121:ALA:HA	34:2c:124:ILE:HG12	2.01	0.43
35:2d:119:GLN:HG2	35:2d:123:HIS:HD2	1.81	0.43
36:2e:17:ALA:CB	36:2e:26:PHE:HA	2.49	0.43
40:2i:112:LYS:HE2	40:2i:116:LYS:O	2.19	0.43
44:2m:25:ILE:HD12	44:2m:29:ARG:HG2	2.00	0.43
50:2s:32:LYS:CG	50:2s:57:HIS:CE1	3.01	0.43
1:1A:152:C:O2'	1:1A:153:G:H5'	2.18	0.43
1:1A:320:C:H2'	1:1A:321:G:C5'	2.49	0.43
1:1A:406:U:H2'	1:1A:407:G:H8	1.84	0.43
1:1A:539:A:H1'	1:1A:603:C:H1'	1.99	0.43
1:1A:788:G:H2'	1:1A:789:G:H8	1.84	0.43
1:1A:1183:G:O2'	1:1A:1184:C:H5'	2.18	0.43
1:1A:1373:G:H2'	1:1A:1375:C:C5	2.54	0.43
1:1A:1698:A:N6	13:1R:11:ASN:OD1	2.42	0.43
1:1A:1903:C:H2'	1:1A:1904:G:C5'	2.48	0.43
1:1A:1957:A:OP2	1:1A:1983:5MC:N4	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2140:A:O2'	1:1A:2141:G:C5'	2.67	0.43
1:1A:2693:U:C4'	4:1E:12:THR:HA	2.49	0.43
1:1A:2768:U:H1'	1:1A:2769:A:H5"	2.01	0.43
2:1B:61:G:O2'	2:1B:62:C:H5'	2.19	0.43
3:1D:4:LYS:HE3	3:1D:6:PHE:HE1	1.83	0.43
5:1F:17:ARG:NH2	5:1F:19:GLU:OE2	2.52	0.43
5:1F:161:GLU:O	5:1F:162:LEU:C	2.61	0.43
6:1G:77:ILE:HG22	6:1G:80:PHE:H	1.83	0.43
8:1I:90:GLY:O	8:1I:121:LYS:HE2	2.19	0.43
9:1N:128:HIS:ND1	9:1N:130:HIS:HB2	2.33	0.43
10:1O:17:ARG:HB2	10:1O:45:GLU:O	2.19	0.43
10:1O:63:VAL:HG12	10:1O:106:LEU:CD1	2.44	0.43
13:1R:88:ARG:HG3	13:1R:89:ASP:N	2.33	0.43
13:1R:103:ARG:HD3	13:1R:108:GLY:O	2.18	0.43
18:1W:18:ARG:NH1	18:1W:76:VAL:O	2.50	0.43
20:1Y:20:TYR:CD2	20:1Y:42:VAL:HG13	2.53	0.43
21:1Z:3:TYR:N	21:1Z:3:TYR:CD1	2.86	0.43
26:14:50:VAL:HG11	44:1m:65:LYS:HD2	2.01	0.43
32:1a:47:G:N2	32:1a:391:C:N3	2.54	0.43
32:1a:97:C:OP2	51:1t:14:LYS:HE3	2.19	0.43
32:1a:221:C:O2'	32:1a:222:G:H5'	2.18	0.43
32:1a:831:G:C2'	32:1a:832:G:H5'	2.48	0.43
32:1a:891:A:C1'	32:1a:892:A:OP2	2.65	0.43
32:1a:949:G:OP1	32:1a:949:G:H3'	2.18	0.43
32:1a:1173:A:H5"	32:1a:1174:C:OP2	2.19	0.43
32:1a:1235:G:OP1	41:1j:44:VAL:HB	2.18	0.43
32:1a:1236:C:C2'	32:1a:1237:G:H5'	2.49	0.43
34:1c:22:TRP:CH2	45:1n:54:PRO:HG2	2.53	0.43
34:1c:156:ARG:HB3	34:1c:160:ALA:O	2.18	0.43
35:1d:83:SER:N	35:1d:89:THR:HG23	2.34	0.43
35:1d:106:TYR:HD2	35:1d:114:ARG:HG3	1.84	0.43
38:1g:26:PHE:CD2	38:1g:30:ILE:HD11	2.53	0.43
39:1h:82:HIS:HB3	39:1h:138:TRP:CE2	2.54	0.43
39:1h:88:LYS:O	39:1h:92:ARG:HD3	2.19	0.43
40:1i:46:ALA:HB1	40:1i:78:LYS:H	1.83	0.43
43:1l:69:TYR:CD2	43:1l:90:VAL:HG21	2.54	0.43
44:1m:24:GLY:HA3	44:1m:70:LEU:HD13	2.01	0.43
45:1n:3:ARG:O	45:1n:6:LEU:HB2	2.19	0.43
45:1n:45:ARG:O	45:1n:45:ARG:HG2	2.19	0.43
48:1q:31:LEU:HD23	48:1q:32:TYR:CE2	2.54	0.43
1:2A:98:G:H3'	1:2A:99:G:C5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:275:C:H2'	1:2A:276:G:C5'	2.49	0.43
1:2A:706:G:H5"	5:2F:99:TYR:HD2	1.80	0.43
1:2A:989:A:N7	59:2A:3969:HOH:O	2.37	0.43
1:2A:1046:A:C2'	1:2A:1047:G:H5'	2.47	0.43
1:2A:1076:G:H1'	31:29:5:ALA:O	2.18	0.43
1:2A:1086:C:N4	1:2A:1159:G:H1	2.17	0.43
1:2A:1330:G:O5'	1:2A:1330:G:H8	2.00	0.43
1:2A:1340:C:O2'	1:2A:1341:G:H5'	2.18	0.43
1:2A:1369:G:H1	1:2A:1375:C:H42	1.65	0.43
1:2A:1822:G:C5'	3:2D:205:VAL:HG13	2.47	0.43
1:2A:1930:C:O2'	1:2A:1931:G:H5'	2.17	0.43
1:2A:1940:A:OP2	1:2A:1941:OMC:H5	2.01	0.43
1:2A:2064:C:N4	1:2A:2636:G:H1	2.15	0.43
1:2A:2149:C:H42	1:2A:2181:G:H1	1.67	0.43
1:2A:2450:A:C4	1:2A:2598:A:OP1	2.71	0.43
1:2A:2469:G:HO2'	1:2A:2501:G:H1	1.65	0.43
1:2A:2554:G:H2'	1:2A:2555:G:O4'	2.18	0.43
1:2A:2647:U:H1'	1:2A:2795:G:N2	2.34	0.43
1:2A:2762:A:H4'	1:2A:2763:G:OP1	2.19	0.43
2:2B:79:C:H2'	2:2B:80:U:C5'	2.48	0.43
3:2D:186:HIS:HE1	3:2D:188:GLU:CG	2.32	0.43
4:2E:15:PHE:HD1	4:2E:15:PHE:N	2.16	0.43
4:2E:143:ASN:HD22	4:2E:147:PRO:HD3	1.84	0.43
5:2F:57:VAL:HG21	5:2F:87:GLY:HA2	1.99	0.43
6:2G:76:SER:N	6:2G:84:LYS:HB2	2.34	0.43
6:2G:127:GLY:H	6:2G:166:ASP:CG	2.27	0.43
8:2I:99:GLU:O	8:2I:102:SER:OG	2.29	0.43
11:2P:99:LEU:HD23	11:2P:99:LEU:C	2.44	0.43
15:2T:121:ILE:O	15:2T:122:ASP:C	2.62	0.43
16:2U:79:PHE:HE2	16:2U:95:LEU:HD23	1.84	0.43
18:2W:86:LEU:HB2	18:2W:96:ILE:HD12	2.01	0.43
20:2Y:17:SER:OG	20:2Y:71:LYS:NZ	2.48	0.43
21:2Z:14:LYS:O	21:2Z:18:LEU:HD13	2.19	0.43
24:22:16:LEU:HA	24:22:20:GLU:OE1	2.19	0.43
29:27:43:THR:HG23	29:27:44:PRO:HD2	2.01	0.43
32:2a:137:G:O2'	32:2a:138:A:O4'	2.27	0.43
32:2a:291:C:O2'	32:2a:292:U:H5'	2.18	0.43
32:2a:445:G:OP1	32:2a:447:A:P	2.77	0.43
32:2a:485:C:N4	32:2a:528:G:H1	2.12	0.43
32:2a:1189:2MG:HM23	32:2a:1190:C:N1	2.34	0.43
32:2a:1210:C:H5'	44:2m:108:ARG:NH2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1387:5MC:N4	32:2a:1475:G:H1	2.17	0.43
32:2a:1470:A:C2'	32:2a:1471:A:O4'	2.66	0.43
32:2a:1510:U:O5'	32:2a:1510:U:H6	2.01	0.43
33:2b:71:VAL:HG12	33:2b:93:VAL:HG22	2.01	0.43
34:2c:150:LYS:HG3	34:2c:169:ALA:HB2	2.01	0.43
35:2d:13:ARG:O	35:2d:39:PRO:HA	2.19	0.43
36:2e:106:PRO:O	36:2e:110:LEU:N	2.50	0.43
37:2f:4:TYR:N	37:2f:4:TYR:CD1	2.86	0.43
37:2f:17:SER:O	37:2f:20:ALA:N	2.46	0.43
39:2h:29:SER:O	39:2h:32:LYS:HB2	2.19	0.43
39:2h:72:PRO:O	39:2h:74:PRO:HD3	2.18	0.43
40:2i:51:ARG:HG2	40:2i:56:LEU:HD11	2.00	0.43
40:2i:110:GLU:OE1	40:2i:120:ARG:HG3	2.19	0.43
43:2l:92:0TD:H8	43:2l:92:0TD:H4	1.49	0.43
44:2m:87:TYR:H	50:2s:73:GLU:HB3	1.83	0.43
46:2o:18:PHE:CD1	46:2o:21:ASP:HB2	2.53	0.43
47:2p:21:VAL:O	47:2p:21:VAL:HG13	2.18	0.43
49:2r:56:THR:HB	49:2r:58:LEU:HD13	2.01	0.43
50:2s:69:HIS:HD2	50:2s:73:GLU:OE1	2.00	0.43
1:1A:431:U:H2'	1:1A:431:U:OP1	2.19	0.43
1:1A:559:C:O2'	16:1U:53:ARG:HD3	2.19	0.43
1:1A:852:C:H5'	59:1A:4154:HOH:O	2.18	0.43
1:1A:997:A:O2'	1:1A:998:G:H5'	2.19	0.43
1:1A:1670:C:H2'	1:1A:1671:G:H5'	2.01	0.43
1:1A:2596:U:H1'	59:1A:4231:HOH:O	2.18	0.43
2:1B:14:U:O3'	2:1B:108:U:O2'	2.36	0.43
4:1E:9:VAL:HA	15:1T:3:ARG:HG2	2.00	0.43
5:1F:129:PHE:N	5:1F:129:PHE:CD1	2.87	0.43
8:1I:110:ASP:O	8:1I:130:TYR:HE1	2.02	0.43
8:1I:140:LEU:CD1	8:1I:142:VAL:HG22	2.49	0.43
11:1P:57:THR:O	11:1P:61:ARG:HG3	2.19	0.43
15:1T:99:LEU:O	15:1T:102:ILE:HG12	2.18	0.43
17:1V:21:ARG:HD3	17:1V:91:TYR:HE2	1.79	0.43
18:1W:15:ARG:HD3	18:1W:15:ARG:O	2.19	0.43
21:1Z:23:LYS:CG	21:1Z:38:TYR:CE2	2.99	0.43
21:1Z:109:ALA:HB1	21:1Z:145:GLU:OE2	2.19	0.43
26:14:12:ALA:HB2	26:14:26:SER:N	2.34	0.43
30:18:23:VAL:HG13	30:18:47:LYS:HB3	1.98	0.43
32:1a:67:G:N7	32:1a:98:G:N2	2.67	0.43
32:1a:759:G:C2'	32:1a:760:G:H5'	2.49	0.43
32:1a:1192:C:C2'	32:1a:1193:U:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:109:PRO:CB	34:1c:115:LEU:HD23	2.49	0.43
37:1f:44:GLY:C	37:1f:59:TYR:CD1	2.97	0.43
40:1i:78:LYS:HD3	40:1i:101:PHE:HD1	1.82	0.43
42:1k:62:GLN:O	42:1k:66:LEU:HG	2.19	0.43
50:1s:27:GLU:HA	50:1s:28:LYS:HA	1.79	0.43
50:1s:40:ILE:C	50:1s:67:VAL:HG13	2.44	0.43
51:1t:16:HIS:O	51:1t:19:SER:OG	2.32	0.43
1:2A:14:G:O2'	27:25:18:ALA:HA	2.19	0.43
1:2A:320:C:OP2	59:2A:3908:HOH:O	2.21	0.43
1:2A:638:G:H2'	5:2F:44:ARG:HH11	1.84	0.43
1:2A:648:C:H6	1:2A:648:C:O5'	2.02	0.43
1:2A:924:A:H2'	1:2A:925:G:C5'	2.35	0.43
1:2A:1192:C:H2'	1:2A:1193:A:C8	2.47	0.43
1:2A:1339:U:O2'	1:2A:1340:C:H5'	2.19	0.43
1:2A:1494:G:H5"	1:2A:1588:A:OP1	2.18	0.43
1:2A:2076:C:H5'	1:2A:2077:G:H5"	2.00	0.43
1:2A:2131:G:N1	1:2A:2200:C:N4	2.40	0.43
1:2A:2522:U:H2'	1:2A:2523:C:O4'	2.19	0.43
1:2A:2831:G:OP1	4:2E:112:GLY:N	2.49	0.43
3:2D:68:LYS:O	3:2D:69:ARG:HB2	2.19	0.43
4:2E:105:THR:HG23	4:2E:165:VAL:O	2.18	0.43
5:2F:183:VAL:HG23	5:2F:184:TYR:N	2.34	0.43
7:2H:105:LEU:HB2	7:2H:113:VAL:HB	2.01	0.43
12:2Q:28:ALA:C	12:2Q:29:PHE:HD1	2.26	0.43
13:2R:52:ILE:O	13:2R:55:ALA:HB3	2.18	0.43
13:2R:76:VAL:HA	13:2R:79:LEU:HB2	1.99	0.43
14:2S:93:LYS:HD3	14:2S:94:TYR:N	2.33	0.43
17:2V:34:GLU:C	17:2V:35:LEU:HD12	2.44	0.43
18:2W:10:VAL:HG13	18:2W:46:PHE:CE1	2.54	0.43
18:2W:65:LEU:HD12	18:2W:68:ARG:CD	2.44	0.43
19:2X:9:LEU:O	24:22:36:ARG:HD2	2.19	0.43
23:21:7:ILE:HD11	23:21:60:PHE:CE2	2.53	0.43
32:2a:107:G:H21	32:2a:349:A:H1'	1.83	0.43
32:2a:262:G:C3'	48:2q:67:LYS:HB2	2.43	0.43
32:2a:601:G:H1	32:2a:607:C:N4	2.01	0.43
32:2a:734:G:N2	46:2o:23:GLY:O	2.45	0.43
32:2a:1229:U:H6	32:2a:1229:U:O5'	2.01	0.43
32:2a:1273:G:C5'	40:2i:39:GLY:HA3	2.49	0.43
32:2a:1353:G:H2'	32:2a:1354:G:C8	2.54	0.43
32:2a:1494:G:H2'	32:2a:1495:G:H5'	2.01	0.43
32:2a:1508:G:H2'	32:2a:1509:A:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:16:HIS:CG	33:2b:17:PHE:N	2.87	0.43
33:2b:55:PHE:CD1	33:2b:221:LEU:HD22	2.53	0.43
33:2b:171:ALA:O	33:2b:175:ARG:HG3	2.19	0.43
33:2b:180:LEU:O	33:2b:182:ILE:HG13	2.19	0.43
34:2c:53:ALA:HA	34:2c:115:LEU:CD1	2.49	0.43
34:2c:82:GLU:OE1	34:2c:83:ARG:N	2.51	0.43
36:2e:94:ALA:CB	36:2e:98:THR:HG21	2.49	0.43
38:2g:17:VAL:HG12	38:2g:18:TYR:CE1	2.54	0.43
39:2h:8:ASP:O	39:2h:11:THR:N	2.52	0.43
39:2h:92:ARG:HG2	39:2h:94:TYR:OH	2.19	0.43
41:2j:71:LEU:O	41:2j:72:VAL:HG13	2.18	0.43
44:2m:78:ILE:HG22	44:2m:82:MET:HE3	1.99	0.43
44:2m:80:ARG:HD3	44:2m:81:LEU:HD12	2.01	0.43
1:1A:24:U:C5'	18:1W:79:GLY:HA2	2.49	0.43
1:1A:80:G:C2'	1:1A:81:G:H5'	2.48	0.43
1:1A:396:G:O5'	1:1A:449:A:N6	2.52	0.43
1:1A:618:G:O2'	1:1A:619:U:H5'	2.18	0.43
1:1A:671:G:N2	1:1A:2361:C:O2'	2.52	0.43
1:1A:960:C:C2'	1:1A:961:G:H5'	2.47	0.43
1:1A:1020:G:C2'	1:1A:1021:C:H5'	2.49	0.43
1:1A:1554:C:H3'	1:1A:1555:A:H5'	2.01	0.43
1:1A:1933:A:H1'	32:1a:1472:G:H21	1.83	0.43
1:1A:2042:C:H4'	1:1A:2043:U:OP2	2.19	0.43
1:1A:2147:A:N3	1:1A:2183:G:N2	2.63	0.43
1:1A:2893:U:C2'	1:1A:2894:C:H5'	2.48	0.43
59:1A:4935:HOH:O	9:1N:89:LYS:HE3	2.19	0.43
3:1D:72:LYS:CE	3:1D:97:TYR:HD2	2.31	0.43
3:1D:242:ARG:O	3:1D:244:ARG:HG2	2.19	0.43
10:1O:2:ILE:HG23	10:1O:6:THR:HG21	2.01	0.43
10:1O:6:THR:HG22	10:1O:8:LEU:HD22	2.01	0.43
11:1P:50:ARG:CG	30:18:61:LEU:HD11	2.48	0.43
11:1P:130:PHE:N	11:1P:130:PHE:CD1	2.85	0.43
12:1Q:35:VAL:HG12	12:1Q:130:LYS:HB3	2.00	0.43
12:1Q:43:THR:O	12:1Q:46:GLN:HB2	2.19	0.43
16:1U:79:PHE:HE1	16:1U:83:LEU:CD1	2.32	0.43
17:1V:13:ARG:HD2	59:1V:314:HOH:O	2.17	0.43
21:1Z:28:MET:HE2	21:1Z:37:VAL:CG1	2.49	0.43
23:11:90:ILE:O	23:11:94:LEU:HG	2.18	0.43
26:14:34:GLU:HG2	26:14:35:VAL:H	1.83	0.43
26:14:67:TYR:N	26:14:67:TYR:HD1	2.16	0.43
31:19:35:ARG:HG2	31:19:36:GLN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:318:C:O2'	51:1t:23:ARG:HD2	2.18	0.43
32:1a:454:G:N2	32:1a:457:G:N7	2.67	0.43
32:1a:485:C:O2	32:1a:533:C:O2'	2.37	0.43
32:1a:751:A:O2'	32:1a:752:A:H5'	2.19	0.43
32:1a:954:G:H2'	32:1a:1341:C:H5'	2.00	0.43
32:1a:964:A:O2'	32:1a:965:G:H5'	2.19	0.43
32:1a:986:C:N3	32:1a:1001:G:C6	2.87	0.43
32:1a:1222:U:C4	38:1g:30:ILE:HG23	2.53	0.43
32:1a:1435:G:H5"	51:1t:35:THR:CG2	2.48	0.43
33:1b:230:VAL:HG22	33:1b:231:GLU:H	1.84	0.43
34:1c:3:ASN:O	34:1c:4:LYS:C	2.62	0.43
34:1c:77:ILE:CG2	34:1c:81:GLY:HA2	2.46	0.43
35:1d:159:ARG:HA	35:1d:162:LEU:HD12	2.01	0.43
36:1e:50:GLU:HB2	36:1e:53:LEU:HD13	1.99	0.43
36:1e:76:ILE:HB	36:1e:77:PRO:CD	2.48	0.43
38:1g:66:VAL:O	38:1g:69:VAL:N	2.51	0.43
40:1i:111:ARG:HH11	40:1i:113:LYS:HA	1.83	0.43
46:1o:3:ILE:C	46:1o:3:ILE:HD12	2.44	0.43
47:1p:20:VAL:HG23	47:1p:34:GLU:O	2.19	0.43
49:1r:74:ARG:HD3	49:1r:81:PHE:HA	2.00	0.43
50:1s:36:ARG:CZ	50:1s:72:GLY:HA2	2.48	0.43
51:1t:32:ALA:O	51:1t:35:THR:HB	2.18	0.43
51:1t:93:GLU:O	51:1t:95:ALA:N	2.51	0.43
52:1u:7:ARG:HB3	52:1u:21:TYR:CE2	2.54	0.43
52:1u:9:ARG:CG	52:1u:13:ILE:HD11	2.48	0.43
1:2A:44:C:C2'	1:2A:45:C:H5'	2.48	0.43
1:2A:62:A:O2'	1:2A:63:C:H5'	2.18	0.43
1:2A:152:C:C2'	1:2A:153:G:H5'	2.49	0.43
1:2A:253:A:N3	1:2A:254:G:H1'	2.34	0.43
1:2A:378:G:H2'	1:2A:379:G:H8	1.83	0.43
1:2A:757:G:H2'	1:2A:758:G:C5'	2.49	0.43
1:2A:932:C:H2'	1:2A:933:A:H5"	2.00	0.43
1:2A:965:G:O2'	1:2A:966:G:H5'	2.18	0.43
1:2A:1064:U:H2'	1:2A:1065:A:C8	2.54	0.43
1:2A:1113:G:H3'	1:2A:1141:A:OP2	2.19	0.43
1:2A:1240:C:H2'	1:2A:1241:G:H8	1.82	0.43
1:2A:1244:C:O2'	1:2A:1245:C:H5'	2.19	0.43
1:2A:1462:C:H2'	1:2A:1463:G:O4'	2.19	0.43
1:2A:2207:G:N1	1:2A:2208:G:C6	2.87	0.43
1:2A:2588:A:O2'	27:25:2:ALA:HB1	2.19	0.43
1:2A:2691:C:OP1	4:2E:109:LYS:CG	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2745:A:H2'	1:2A:2746:A:H5'	2.01	0.43
1:2A:2836:C:O2'	1:2A:2837:C:H5'	2.18	0.43
3:2D:132:PRO:O	3:2D:136:ILE:HD12	2.19	0.43
6:2G:110:ALA:HB1	6:2G:140:ILE:CG2	2.48	0.43
7:2H:3:ARG:HG3	7:2H:6:ARG:HB2	2.00	0.43
7:2H:73:ALA:O	7:2H:77:LYS:N	2.43	0.43
12:2Q:109:VAL:CG2	12:2Q:113:GLN:OE1	2.65	0.43
13:2R:25:ALA:O	13:2R:26:LYS:C	2.62	0.43
14:2S:68:GLN:HA	14:2S:71:ARG:HD2	2.00	0.43
15:2T:118:ARG:HB2	32:2a:1426:G:C6	2.54	0.43
19:2X:10:ALA:O	19:2X:29:TRP:N	2.43	0.43
20:2Y:43:ASN:HB3	20:2Y:65:ALA:O	2.18	0.43
20:2Y:68:HIS:ND1	20:2Y:70:SER:HB3	2.33	0.43
21:2Z:132:ASN:O	21:2Z:134:PRO:CD	2.62	0.43
22:20:27:GLU:N	22:20:69:PHE:HE2	2.17	0.43
22:20:45:PHE:N	22:20:45:PHE:CD1	2.86	0.43
24:22:28:LYS:HD2	24:22:60:LEU:HD11	2.00	0.43
26:24:14:ILE:CD1	26:24:24:THR:CG2	2.97	0.43
32:2a:61:A:H8	32:2a:61:A:P	2.42	0.43
32:2a:231:C:H2'	32:2a:232:G:H8	1.84	0.43
32:2a:795:C:H4'	32:2a:878:A:H61	1.83	0.43
32:2a:1273:G:C2'	32:2a:1274:U:H5'	2.48	0.43
33:2b:47:THR:HA	33:2b:202:PRO:HG2	2.01	0.43
33:2b:98:LEU:O	33:2b:101:MET:HB2	2.19	0.43
35:2d:91:SER:O	35:2d:94:LEU:HB2	2.19	0.43
35:2d:158:ILE:HG21	35:2d:181:MET:CE	2.49	0.43
36:2e:132:ALA:O	36:2e:133:TYR:C	2.61	0.43
37:2f:88:VAL:HG12	37:2f:89:MET:N	2.34	0.43
42:2k:61:ALA:HB1	42:2k:94:ALA:CB	2.41	0.43
44:2m:16:ASP:O	44:2m:20:THR:HG23	2.18	0.43
46:2o:28:GLN:HG2	46:2o:66:LEU:HD21	2.01	0.43
47:2p:42:ARG:O	47:2p:44:THR:N	2.52	0.43
1:1A:7:A:H2'	1:1A:8:U:H6	1.84	0.43
1:1A:226:C:H1'	1:1A:631:A:H1'	2.00	0.43
1:1A:587:C:O2'	1:1A:588:U:H5'	2.18	0.43
1:1A:858:C:H5"	1:1A:1295:G:O2'	2.19	0.43
1:1A:868:U:OP2	59:1A:4375:HOH:O	2.21	0.43
1:1A:873:U:H4'	1:1A:874:U:C6	2.54	0.43
1:1A:1018:G:OP1	1:1A:1231:G:H4'	2.19	0.43
1:1A:1112:A:H2'	1:1A:1112:A:N3	2.34	0.43
1:1A:1372:C:C2'	1:1A:1373:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1946:C:C2'	1:1A:1947:U:H5'	2.49	0.43
1:1A:2022:A:H2'	1:1A:2023:G:C8	2.54	0.43
1:1A:2027:C:OP2	59:1A:4378:HOH:O	2.21	0.43
1:1A:2072:A:H2	1:1A:2073:G:O6	2.01	0.43
1:1A:2358:C:OP1	1:1A:2358:C:H4'	2.19	0.43
1:1A:2801:C:O2'	1:1A:2802:A:H4'	2.19	0.43
1:1A:2879:C:H2'	1:1A:2880:C:O4'	2.18	0.43
2:1B:78:A:H2'	2:1B:79:C:O4'	2.19	0.43
5:1F:157:VAL:O	5:1F:194:MET:HA	2.19	0.43
5:1F:164:ARG:O	5:1F:168:ARG:HB3	2.18	0.43
20:1Y:15:VAL:HG12	20:1Y:21:LYS:HA	2.01	0.43
26:14:1:MET:HE2	26:14:6:HIS:CD2	2.54	0.43
32:1a:143:G:O2'	32:1a:144:A:H5'	2.18	0.43
32:1a:408:A:H62	35:1d:35:ARG:HG2	1.82	0.43
32:1a:503:C:H2'	32:1a:504:A:H8	1.84	0.43
32:1a:658:G:H2'	32:1a:659:A:H8	1.84	0.43
32:1a:721:A:O2'	37:1f:72:VAL:HG11	2.19	0.43
32:1a:982:G:O2'	32:1a:983:A:H4'	2.19	0.43
32:1a:1113:A:O4'	40:1i:18:PHE:HE2	2.01	0.43
32:1a:1357:A:C2'	32:1a:1358:A:H5'	2.49	0.43
33:1b:84:GLU:O	33:1b:87:ARG:HB2	2.18	0.43
33:1b:191:ASP:OD1	33:1b:192:SER:N	2.51	0.43
33:1b:230:VAL:HG22	33:1b:231:GLU:N	2.34	0.43
35:1d:76:ARG:HD2	35:1d:207:TYR:CZ	2.51	0.43
36:1e:71:LEU:HD21	36:1e:115:VAL:HG22	2.00	0.43
37:1f:6:VAL:N	37:1f:63:TYR:O	2.51	0.43
37:1f:44:GLY:CA	37:1f:59:TYR:CE1	3.00	0.43
39:1h:32:LYS:O	39:1h:35:ILE:HB	2.19	0.43
39:1h:85:ARG:NE	39:1h:87:SER:O	2.52	0.43
44:1m:112:GLY:O	44:1m:113:PRO:C	2.62	0.43
45:1n:43:CYS:O	45:1n:46:GLU:N	2.50	0.43
47:1p:40:ASP:HB3	47:1p:48:TRP:HB3	1.98	0.43
48:1q:74:LEU:O	48:1q:75:ARG:HB3	2.19	0.43
50:1s:40:ILE:HG22	50:1s:41:VAL:N	2.34	0.43
1:2A:623:C:O2	1:2A:627:C:H4'	2.19	0.43
1:2A:727:G:N2	1:2A:843:C:O2	2.52	0.43
1:2A:853:U:OP1	11:2P:36:LYS:HD3	2.19	0.43
1:2A:920:G:C2'	1:2A:921:G:H5'	2.49	0.43
1:2A:1182:G:C2	9:2N:106:MET:HE2	2.54	0.43
1:2A:1513:C:N4	1:2A:1570:G:H1	2.16	0.43
1:2A:2123:U:H2'	1:2A:2124:C:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2142:G:H8	1:2A:2142:G:OP2	2.01	0.43
1:2A:2410:G:O2'	1:2A:2411:G:H5'	2.19	0.43
1:2A:2544:A:H2'	1:2A:2545:A:C5'	2.49	0.43
3:2D:159:ALA:HA	3:2D:197:GLY:O	2.19	0.43
4:2E:5:LEU:HB2	4:2E:31:CYS:SG	2.59	0.43
6:2G:114:ILE:HA	6:2G:140:ILE:HD11	2.00	0.43
10:2O:9:GLU:HB2	10:2O:83:ALA:HB2	2.01	0.43
10:2O:26:LYS:HG2	10:2O:26:LYS:O	2.18	0.43
11:2P:85:LEU:HD13	11:2P:120:ALA:HA	2.01	0.43
13:2R:21:TYR:O	13:2R:24:GLN:HB2	2.18	0.43
13:2R:33:ARG:NH1	27:25:57:VAL:O	2.51	0.43
13:2R:57:ARG:C	13:2R:59:ASP:H	2.26	0.43
14:2S:66:ALA:O	14:2S:67:ARG:C	2.61	0.43
15:2T:16:ARG:NH2	15:2T:83:ILE:O	2.52	0.43
16:2U:72:HIS:CE1	16:2U:107:ALA:HB2	2.54	0.43
17:2V:57:VAL:CG1	17:2V:99:ILE:HG22	2.48	0.43
21:2Z:41:LEU:HD23	21:2Z:41:LEU:C	2.44	0.43
23:21:69:LYS:HA	23:21:72:GLU:HB3	2.01	0.43
24:22:59:ARG:O	24:22:62:THR:HB	2.18	0.43
29:27:21:ARG:HB2	29:27:31:LEU:HD11	2.01	0.43
30:28:56:GLU:HA	30:28:59:LYS:HD3	2.01	0.43
32:2a:158:C:H2'	32:2a:159:U:O4'	2.19	0.43
32:2a:808:C:O2'	32:2a:809:G:H5'	2.18	0.43
32:2a:919:G:H2'	32:2a:920:G:O5'	2.19	0.43
32:2a:943:A:OP2	32:2a:943:A:H8	2.02	0.43
32:2a:1091:G:H5'	34:2c:176:HIS:HD2	1.83	0.43
32:2a:1179:G:O2'	32:2a:1180:G:H5'	2.19	0.43
32:2a:1268:A:C8	32:2a:1269:A:H4'	2.54	0.43
33:2b:28:PHE:HZ	33:2b:188:ALA:O	2.02	0.43
33:2b:229:VAL:CG1	33:2b:230:VAL:H	2.32	0.43
34:2c:113:ALA:N	34:2c:114:PRO:HD2	2.33	0.43
36:2e:51:VAL:HB	36:2e:52:PRO:HD3	2.01	0.43
37:2f:89:MET:HE2	49:2r:72:ARG:HG3	1.98	0.43
40:2i:7:THR:O	40:2i:79:LEU:HG	2.19	0.43
41:2j:16:LEU:HD21	41:2j:94:VAL:HG13	2.01	0.43
42:2k:65:ALA:O	42:2k:68:ALA:HB3	2.19	0.43
43:2l:38:THR:OG1	43:2l:39:VAL:N	2.51	0.43
44:2m:56:LEU:O	44:2m:60:VAL:HG12	2.18	0.43
44:2m:66:LEU:O	44:2m:70:LEU:HB3	2.19	0.43
46:2o:73:GLU:C	46:2o:75:PRO:HD3	2.44	0.43
51:2t:30:LYS:O	51:2t:33:ILE:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:26:G:C2	1:1A:536:G:N3	2.87	0.42
1:1A:97:U:H5'	1:1A:97:U:O2	2.18	0.42
1:1A:127:C:O3'	1:1A:1394:A:O2'	2.36	0.42
1:1A:262:C:O2'	1:1A:263:G:H5'	2.19	0.42
1:1A:343:A:OP1	5:1F:135:LYS:NZ	2.20	0.42
1:1A:422:G:O3'	23:11:44:PRO:HA	2.19	0.42
1:1A:620:G:C1'	11:1P:12:ALA:HB2	2.49	0.42
1:1A:739:C:O4'	1:1A:1399:A:H1'	2.18	0.42
1:1A:1015:C:H2'	1:1A:1016:G:H5'	2.00	0.42
1:1A:1153:U:H2'	1:1A:1154:C:C6	2.54	0.42
1:1A:1232:U:C5'	17:1V:79:VAL:CG1	2.97	0.42
1:1A:1282:A:OP1	59:1A:4374:HOH:O	2.21	0.42
1:1A:1411:A:H2'	1:1A:1412:A:H5'	2.01	0.42
1:1A:1751:G:C2'	1:1A:1752:U:H5'	2.49	0.42
1:1A:1836:C:H2'	1:1A:1837:G:C5'	2.48	0.42
1:1A:2004:C:O2'	1:1A:2617:C:H5"	2.19	0.42
1:1A:2262:OMG:OP1	12:1Q:82:ARG:NH1	2.52	0.42
1:1A:2292:C:C2'	1:1A:2293:G:H5'	2.48	0.42
1:1A:2427:C:C2'	1:1A:2428:C:H5'	2.49	0.42
1:1A:2564:G:H2'	1:1A:2565:U:H4'	2.00	0.42
1:1A:2830:A:H3'	59:1A:4144:HOH:O	2.18	0.42
2:1B:33:G:C2'	2:1B:34:U:H5'	2.49	0.42
3:1D:70:TRP:NE1	3:1D:146:GLU:OE2	2.52	0.42
5:1F:123:LEU:HD13	5:1F:192:LEU:HD22	2.01	0.42
8:1I:9:LEU:HD23	8:1I:12:LEU:CD1	2.18	0.42
8:1I:65:ALA:O	8:1I:68:LEU:HB3	2.19	0.42
15:1T:123:GLN:O	15:1T:126:ALA:HB3	2.19	0.42
18:1W:46:PHE:N	18:1W:46:PHE:HD1	2.17	0.42
26:14:48:ARG:O	26:14:49:PHE:C	2.62	0.42
28:16:38:LYS:H	28:16:49:HIS:HD1	1.67	0.42
30:18:34:TRP:CG	30:18:35:GLN:N	2.87	0.42
30:18:64:TYR:N	59:18:205:HOH:O	2.26	0.42
32:1a:156:A:H8	32:1a:156:A:O5'	2.01	0.42
32:1a:167:A:O2'	32:1a:168:U:H5'	2.19	0.42
32:1a:172:C:OP1	51:1t:65:LYS:CE	2.67	0.42
32:1a:401:U:H5"	32:1a:402:G:C4'	2.49	0.42
32:1a:775:G:H2'	32:1a:776:A:H5'	2.01	0.42
32:1a:1355:U:H2'	32:1a:1356:G:C8	2.54	0.42
32:1a:1472:G:N3	32:1a:1472:G:H2'	2.34	0.42
33:1b:61:LEU:HD23	33:1b:68:ILE:CG1	2.49	0.42
33:1b:69:LEU:H	33:1b:162:ILE:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:157:ARG:HG2	33:1b:158:LEU:N	2.31	0.42
33:1b:200:ILE:CG2	33:1b:202:PRO:HD3	2.29	0.42
34:1c:136:GLN:O	34:1c:140:ARG:HG3	2.19	0.42
36:1e:71:LEU:CD2	36:1e:115:VAL:HG22	2.47	0.42
36:1e:78:HIS:CB	39:1h:104:ARG:HD2	2.48	0.42
41:1j:6:ILE:O	41:1j:72:VAL:HG22	2.19	0.42
43:1l:56:ALA:N	43:1l:68:ALA:O	2.52	0.42
1:2A:457:U:O5'	1:2A:457:U:H6	2.01	0.42
1:2A:623:C:O2	1:2A:627:C:H5"	2.19	0.42
1:2A:838:G:H5"	1:2A:839:A:H5'	2.01	0.42
1:2A:867:A:H2'	1:2A:990:G:C5'	2.38	0.42
1:2A:913:C:H5"	1:2A:914:U:OP2	2.19	0.42
1:2A:1112:A:O4'	1:2A:1113:G:N2	2.52	0.42
1:2A:1377:G:H2'	1:2A:1377:G:N3	2.34	0.42
1:2A:1387:A:H2	1:2A:1441:U:HO2'	1.67	0.42
1:2A:1674:U:O2	1:2A:2709:U:H4'	2.19	0.42
1:2A:1758:C:H2'	1:2A:1759:U:O4'	2.19	0.42
1:2A:1795:C:O2'	1:2A:1796:U:H5'	2.19	0.42
1:2A:1968:C:C2'	1:2A:1969:G:H5'	2.49	0.42
1:2A:1970:G:O2'	1:2A:1971:G:H5'	2.19	0.42
1:2A:2125:G:H2'	1:2A:2125:G:N3	2.33	0.42
1:2A:2158:C:N3	1:2A:2175:G:C6	2.83	0.42
1:2A:2270:G:H1'	1:2A:2438:C:H2'	2.01	0.42
1:2A:2667:U:H2'	1:2A:2668:A:H8	1.84	0.42
1:2A:2726:G:C2'	1:2A:2727:C:H5'	2.49	0.42
1:2A:2727:C:O2'	1:2A:2728:U:H5'	2.19	0.42
3:2D:252:TRP:HE3	3:2D:253:GLN:O	2.01	0.42
4:2E:18:ASP:HA	15:2T:82:LEU:HD11	2.00	0.42
6:2G:37:VAL:O	6:2G:37:VAL:HG12	2.19	0.42
6:2G:96:ARG:O	6:2G:97:ASP:C	2.61	0.42
7:2H:105:LEU:N	7:2H:113:VAL:O	2.45	0.42
7:2H:144:VAL:O	7:2H:147:ASN:HB2	2.19	0.42
11:2P:65:ARG:HD2	30:28:25:MET:HG3	2.01	0.42
12:2Q:61:GLY:HA2	21:2Z:177:PRO:HB3	2.01	0.42
12:2Q:137:TYR:CE2	21:2Z:83:PRO:HG3	2.38	0.42
21:2Z:71:VAL:HG22	21:2Z:88:PHE:CD1	2.54	0.42
24:22:11:GLU:HG3	59:22:101:HOH:O	2.18	0.42
30:28:32:LEU:O	30:28:36:LYS:HE3	2.19	0.42
32:2a:95:A:H2'	32:2a:96:G:H5'	2.01	0.42
32:2a:107:G:O2'	32:2a:108:U:H5'	2.19	0.42
32:2a:406:G:H2'	32:2a:425:U:O4	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:413:C:H2'	32:2a:414:C:H6	1.84	0.42
32:2a:515:U:O3'	32:2a:516:A:H4'	2.18	0.42
32:2a:572:G:O6	32:2a:737:A:H2'	2.19	0.42
32:2a:1087:G:H4'	33:2b:111:ARG:CZ	2.49	0.42
32:2a:1106:A:H4'	41:2j:36:GLY:HA3	2.01	0.42
32:2a:1264:C:O2'	32:2a:1265:G:H5'	2.19	0.42
32:2a:1284:U:P	44:2m:21:TYR:HH	2.42	0.42
32:2a:1344:C:H2'	32:2a:1345:C:H5"	2.01	0.42
32:2a:1468:C:H2'	32:2a:1469:G:H8	1.84	0.42
33:2b:33:TYR:O	33:2b:34:ALA:CB	2.67	0.42
33:2b:185:ILE:HG13	33:2b:199:TYR:HB2	2.01	0.42
38:2g:149:ARG:HG2	42:2k:59:TYR:CZ	2.53	0.42
40:2i:4:TYR:CZ	40:2i:88:TYR:CD1	3.07	0.42
40:2i:51:ARG:HA	40:2i:56:LEU:CD1	2.33	0.42
42:2k:62:GLN:HB2	42:2k:93:GLN:HG3	2.01	0.42
42:2k:105:VAL:HG23	42:2k:105:VAL:O	2.19	0.42
43:2l:40:VAL:HG22	43:2l:56:ALA:HB1	2.00	0.42
43:2l:68:ALA:HA	43:2l:98:TYR:O	2.18	0.42
43:2l:69:TYR:CE2	43:2l:71:PRO:HA	2.54	0.42
49:2r:53:ARG:NH2	49:2r:59:SER:HA	2.33	0.42
50:2s:32:LYS:HG3	50:2s:57:HIS:ND1	2.34	0.42
1:1A:413:U:H2'	23:11:20:ARG:NH1	2.33	0.42
1:1A:648:C:OP1	59:1A:4382:HOH:O	2.22	0.42
1:1A:930:C:C3'	1:1A:931:C:H5'	2.48	0.42
1:1A:1517:A:N3	1:1A:1517:A:H2'	2.34	0.42
1:1A:1748:G:O2'	1:1A:1749:G:H5'	2.19	0.42
1:1A:1887:G:N2	1:1A:1907:C:H42	2.17	0.42
1:1A:1927:G:H1	1:1A:1945:C:N4	2.14	0.42
1:1A:2163:C:O2	1:1A:2170:G:C2	2.72	0.42
1:1A:2333:A:H2'	1:1A:2334:G:H5'	2.00	0.42
1:1A:2829:A:HO2'	1:1A:2830:A:P	2.39	0.42
3:1D:52:ARG:HH21	3:1D:53:PHE:HZ	1.65	0.42
3:1D:154:LYS:HB2	3:1D:155:LEU:HD12	2.01	0.42
3:1D:179:SER:C	3:1D:181:GLU:H	2.27	0.42
5:1F:81:PRO:CB	5:1F:89:VAL:HG23	2.48	0.42
6:1G:18:GLU:HG3	6:1G:175:LEU:CD2	2.49	0.42
6:1G:77:ILE:CG2	6:1G:80:PHE:H	2.32	0.42
6:1G:122:PRO:HD3	6:1G:181:ARG:HG2	2.01	0.42
10:1O:24:VAL:HG23	10:1O:24:VAL:O	2.19	0.42
10:1O:64:ARG:CG	10:1O:79:PHE:CD2	3.03	0.42
11:1P:59:LEU:C	11:1P:59:LEU:HD13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1Y:46:LYS:HE3	20:1Y:60:PHE:CD2	2.54	0.42
24:12:17:SER:O	24:12:21:LEU:N	2.52	0.42
26:14:14:ILE:HA	26:14:31:ILE:O	2.19	0.42
32:1a:62:G:O2'	32:1a:63:U:H5'	2.18	0.42
32:1a:200:C:O2'	51:1t:61:SER:HA	2.19	0.42
32:1a:276:C:H42	48:1q:39:SER:HB3	1.84	0.42
32:1a:710:C:H2'	32:1a:711:G:O4'	2.20	0.42
32:1a:762:G:O2'	32:1a:763:C:H5'	2.19	0.42
32:1a:950:C:OP2	41:1j:57:LYS:NZ	2.51	0.42
32:1a:1059:C:O2'	32:1a:1060:G:H5'	2.18	0.42
32:1a:1214:U:H5"	40:1i:124:GLN:O	2.19	0.42
32:1a:1289:U:O4	32:1a:1313:G:N2	2.51	0.42
32:1a:1298:G:H5"	45:1n:17:LYS:HZ1	1.83	0.42
32:1a:1429:C:O2'	32:1a:1430:C:H5'	2.18	0.42
33:1b:200:ILE:O	33:1b:201:ILE:HD13	2.18	0.42
35:1d:101:LEU:O	35:1d:102:ASP:C	2.61	0.42
37:1f:99:ALA:O	37:1f:100:ASN:HB2	2.19	0.42
38:1g:42:ILE:HG23	38:1g:117:ALA:CA	2.49	0.42
45:1n:23:ARG:NH1	45:1n:30:ALA:HA	2.34	0.42
45:1n:42:ILE:O	45:1n:46:GLU:HG3	2.19	0.42
46:1o:3:ILE:HD12	46:1o:3:ILE:O	2.18	0.42
46:1o:18:PHE:O	46:1o:19:PRO:C	2.62	0.42
46:1o:79:ARG:O	46:1o:81:LEU:N	2.52	0.42
48:1q:67:LYS:O	48:1q:69:LYS:N	2.51	0.42
49:1r:44:LEU:HA	49:1r:49:LYS:O	2.19	0.42
52:1u:15:ARG:O	52:1u:17:THR:HG23	2.19	0.42
1:2A:76:A:H2'	1:2A:77:G:C8	2.55	0.42
1:2A:171:C:H1'	1:2A:459:C:H1'	2.00	0.42
1:2A:181:U:H4'	1:2A:849:U:H5'	2.01	0.42
1:2A:239:A:C4	1:2A:240:G:H1'	2.54	0.42
1:2A:265:C:O2'	1:2A:266:C:H5'	2.19	0.42
1:2A:411:C:H42	1:2A:417:G:H1	1.66	0.42
1:2A:504:A:C4'	1:2A:505:A:H5'	2.48	0.42
1:2A:851:G:H4'	11:2P:38:GLN:HA	2.00	0.42
1:2A:966:G:H2'	1:2A:967:U:C6	2.54	0.42
1:2A:1004:A:C4'	1:2A:2468:U:H4'	2.49	0.42
1:2A:1089:G:H21	1:2A:1156:A:H2	1.61	0.42
1:2A:1293:G:C8	16:2U:3:ARG:HB3	2.54	0.42
1:2A:1427:G:O2'	1:2A:1428:C:H5'	2.20	0.42
1:2A:1582:C:H2'	1:2A:1582:C:P	2.59	0.42
1:2A:1715:A:C8	10:2O:5:GLN:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1846:G:OP2	3:2D:37:LEU:HD11	2.19	0.42
1:2A:1860:C:H4'	3:2D:15:PHE:CZ	2.54	0.42
1:2A:1866:C:C2'	1:2A:1867:C:H5'	2.49	0.42
1:2A:1975:G:N3	1:2A:2562:C:H4'	2.34	0.42
1:2A:2273:U:H4'	1:2A:2339:A:C2	2.53	0.42
1:2A:2389:A:C8	1:2A:2390:G:H1'	2.54	0.42
1:2A:2646:C:HO2'	4:2E:80:GLU:CD	2.23	0.42
1:2A:2863:G:H2'	1:2A:2864:C:C6	2.54	0.42
2:2B:57:A:C2	6:2G:29:TRP:HB3	2.53	0.42
3:2D:70:TRP:CB	3:2D:190:TYR:CE2	2.94	0.42
3:2D:83:GLU:O	3:2D:92:ILE:HG12	2.19	0.42
3:2D:94:LEU:HD11	3:2D:96:HIS:CD2	2.54	0.42
3:2D:111:LEU:HD23	3:2D:115:GLN:HE21	1.84	0.42
4:2E:37:ARG:HB2	4:2E:46:ALA:H	1.84	0.42
4:2E:61:ARG:CB	4:2E:62:PRO:HD3	2.46	0.42
4:2E:73:GLU:HG3	4:2E:74:PRO:CD	2.47	0.42
5:2F:150:GLY:HA2	5:2F:172:TRP:CE3	2.53	0.42
6:2G:15:VAL:HA	6:2G:175:LEU:HG	2.01	0.42
6:2G:38:VAL:HG22	6:2G:93:THR:OG1	2.19	0.42
6:2G:114:ILE:HG22	6:2G:117:PHE:HB2	2.01	0.42
8:2I:5:LEU:HD13	8:2I:17:GLN:O	2.19	0.42
11:2P:134:ALA:O	11:2P:135:LEU:C	2.61	0.42
13:2R:52:ILE:O	13:2R:53:HIS:C	2.62	0.42
15:2T:57:PHE:C	15:2T:59:THR:H	2.26	0.42
17:2V:12:TYR:CE2	17:2V:22:VAL:HG12	2.53	0.42
17:2V:37:VAL:HG12	17:2V:39:LEU:H	1.83	0.42
18:2W:21:VAL:HG21	18:2W:76:VAL:CG2	2.50	0.42
18:2W:66:GLU:HA	18:2W:69:LEU:HD12	2.00	0.42
24:22:1:MET:HG3	24:22:5:GLU:OE1	2.19	0.42
30:28:53:PRO:O	30:28:57:ARG:HG3	2.19	0.42
32:2a:109:G:H4'	32:2a:110:A:O5'	2.19	0.42
32:2a:311:A:H5"	32:2a:313:G:OP2	2.19	0.42
32:2a:924:A:H2'	32:2a:925:G:H8	1.83	0.42
32:2a:994:A:H2	32:2a:1200:C:O2	2.02	0.42
32:2a:1070:G:H8	32:2a:1070:G:O5'	2.01	0.42
32:2a:1101:C:H42	32:2a:1138:G:H1	1.67	0.42
32:2a:1161:A:H5"	40:2i:102:LEU:CD1	2.44	0.42
32:2a:1371:C:C2'	32:2a:1372:C:H5'	2.49	0.42
34:2c:70:VAL:HG13	34:2c:73:PRO:CG	2.44	0.42
34:2c:188:LEU:HD12	34:2c:196:LEU:O	2.18	0.42
35:2d:10:ARG:O	35:2d:14:ARG:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:2g:6:ARG:O	38:2g:6:ARG:CG	2.67	0.42
38:2g:76:ARG:N	38:2g:87:VAL:O	2.52	0.42
39:2h:104:ARG:HG3	39:2h:104:ARG:O	2.19	0.42
40:2i:45:ALA:O	40:2i:48:GLU:N	2.46	0.42
41:2j:57:LYS:HE3	41:2j:60:ARG:HH22	1.84	0.42
45:2n:37:PHE:CD2	45:2n:44:LEU:HD13	2.54	0.42
47:2p:4:ILE:HG13	47:2p:64:ALA:HB1	2.01	0.42
49:2r:31:LEU:HD21	49:2r:62:GLU:HB2	2.01	0.42
50:2s:3:ARG:CD	50:2s:10:PHE:HB2	2.48	0.42
1:1A:312:A:C2'	1:1A:313:G:H5'	2.44	0.42
1:1A:579:U:O2	9:1N:45:ASN:HB2	2.20	0.42
1:1A:847:G:OP2	5:1F:55:GLY:HA2	2.19	0.42
1:1A:849:U:C2'	1:1A:850:A:H5'	2.50	0.42
1:1A:1402:U:O2'	1:1A:1403:G:H5'	2.19	0.42
1:1A:1554:C:H3'	1:1A:1555:A:C5'	2.49	0.42
1:1A:1709:C:HO2'	1:1A:1710:A:H8	1.65	0.42
1:1A:1890:G:O6	1:1A:1904:G:N2	2.52	0.42
1:1A:2156:A:N6	1:1A:2176:G:H22	2.16	0.42
1:1A:2302:U:O2'	1:1A:2385:C:H1'	2.19	0.42
1:1A:2524:G:N2	4:1E:143:ASN:OD1	2.53	0.42
1:1A:2632:A:H2'	1:1A:2633:C:H5'	2.01	0.42
1:1A:2889:C:O2	1:1A:2889:C:H2'	2.18	0.42
4:1E:65:GLY:O	4:1E:68:ALA:HB3	2.20	0.42
4:1E:179:GLU:HB3	4:1E:181:LEU:CD1	2.49	0.42
5:1F:11:VAL:O	5:1F:17:ARG:HA	2.19	0.42
9:1N:95:PRO:C	9:1N:97:ARG:N	2.77	0.42
16:1U:74:LEU:HD23	16:1U:114:LYS:CE	2.49	0.42
24:12:62:THR:O	24:12:65:ASN:N	2.52	0.42
26:14:15:ILE:O	26:14:33:VAL:HG22	2.18	0.42
32:1a:63:U:OP1	32:1a:381:C:O2'	2.37	0.42
32:1a:101:G:OP1	32:1a:321:A:N6	2.47	0.42
32:1a:373:G:H1	32:1a:382:C:N4	2.17	0.42
32:1a:766:A:C2'	32:1a:767:C:H5'	2.49	0.42
32:1a:1355:U:OP1	40:1i:71:SER:HB3	2.19	0.42
32:1a:1493:C:C2'	32:1a:1494:G:H5'	2.49	0.42
33:1b:16:HIS:HB3	33:1b:210:SER:OG	2.17	0.42
38:1g:135:VAL:HG12	38:1g:139:GLU:HG3	2.01	0.42
40:1i:99:LEU:HD23	40:1i:101:PHE:CE2	2.45	0.42
44:1m:4:ILE:O	44:1m:5:ALA:C	2.62	0.42
44:1m:78:ILE:HA	44:1m:81:LEU:HD12	2.02	0.42
47:1p:5:ARG:HB3	47:1p:67:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:1q:62:SER:N	48:1q:70:ARG:O	2.45	0.42
49:1r:61:LYS:HA	49:1r:64:ARG:HE	1.83	0.42
1:2A:75:C:OP1	24:22:59:ARG:HD3	2.19	0.42
1:2A:414:G:O2'	1:2A:415:G:N7	2.48	0.42
1:2A:470:C:H2'	1:2A:471:G:C5'	2.49	0.42
1:2A:663:U:H2'	1:2A:664:C:C6	2.55	0.42
1:2A:917:U:H4'	12:2Q:69:PHE:CE2	2.55	0.42
1:2A:955:A:C5	12:2Q:13:GLN:HG3	2.55	0.42
1:2A:1231:G:H2'	1:2A:1231:G:N3	2.34	0.42
1:2A:1311:G:N7	18:2W:15:ARG:HD3	2.34	0.42
1:2A:1368:U:H2'	1:2A:1369:G:H5'	2.00	0.42
1:2A:1372:C:OP2	59:2A:3896:HOH:O	2.20	0.42
1:2A:1764:U:H2'	1:2A:1765:G:O4'	2.20	0.42
1:2A:1984:U:O2	1:2A:1984:U:O2'	2.34	0.42
1:2A:1990:A:OP1	1:2A:1990:A:H4'	2.19	0.42
1:2A:2769:A:N1	7:2H:67:LEU:HD22	2.33	0.42
2:2B:44:G:N2	2:2B:47:C:N3	2.57	0.42
6:2G:14:GLU:O	6:2G:17:PRO:HD2	2.20	0.42
8:2I:1:MET:HE2	8:2I:38:LEU:HD11	1.98	0.42
10:2O:14:THR:HG22	10:2O:52:VAL:HG22	2.01	0.42
10:2O:107:ARG:HG3	10:2O:115:VAL:HG21	2.00	0.42
13:2R:36:THR:HG22	13:2R:37:THR:H	1.82	0.42
15:2T:51:ARG:O	15:2T:61:PHE:HA	2.19	0.42
32:2a:503:C:H2'	32:2a:504:A:C8	2.53	0.42
32:2a:628:G:C5'	39:2h:92:ARG:HH12	2.30	0.42
32:2a:768:C:H2'	32:2a:769:G:C8	2.54	0.42
32:2a:916:A:H2	32:2a:1358:A:H2	1.65	0.42
32:2a:987:C:H2'	32:2a:988:G:O4'	2.19	0.42
32:2a:1025:G:H2'	32:2a:1026:C:O5'	2.18	0.42
32:2a:1075:A:H5"	38:2g:4:ARG:NH1	2.34	0.42
32:2a:1108:U:O2'	32:2a:1109:U:H3'	2.19	0.42
32:2a:1257:A:H2'	32:2a:1258:G:H5'	2.01	0.42
33:2b:121:LEU:O	33:2b:125:PRO:HB2	2.19	0.42
34:2c:29:TYR:OH	45:2n:54:PRO:HD2	2.19	0.42
35:2d:17:VAL:HG12	35:2d:18:LYS:N	2.34	0.42
38:2g:103:TRP:CH2	38:2g:141:VAL:HG21	2.55	0.42
41:2j:32:ALA:HB1	41:2j:33:GLN:NE2	2.34	0.42
43:2l:84:LEU:CB	43:2l:104:VAL:HG21	2.46	0.42
44:2m:10:PRO:O	44:2m:45:VAL:HG21	2.19	0.42
47:2p:22:THR:HA	47:2p:33:ILE:HG13	2.01	0.42
49:2r:70:ILE:HG23	49:2r:79:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:2u:12:LYS:HB2	52:2u:22:ARG:HD2	2.01	0.42
1:1A:14:G:O2'	27:15:18:ALA:HA	2.19	0.42
1:1A:1059:U:O2'	1:1A:1060:G:H5'	2.20	0.42
1:1A:1486:G:H2'	1:1A:1487:G:C8	2.54	0.42
1:1A:1613:A:N7	3:1D:84:TYR:HE2	2.17	0.42
1:1A:1682:C:H4'	1:1A:1791:C:O4'	2.19	0.42
1:1A:1835:U:H4'	3:1D:250:TRP:CE2	2.55	0.42
1:1A:1887:G:C6	1:1A:1888:G:C6	3.07	0.42
1:1A:2126:C:O2'	1:1A:2127:G:H5'	2.19	0.42
1:1A:2346:A:OP1	14:1S:13:ARG:HB3	2.20	0.42
1:1A:2448:U:H2'	1:1A:2449:U:C6	2.55	0.42
1:1A:2857:G:O6	59:1A:4352:HOH:O	2.19	0.42
3:1D:31:LYS:O	3:1D:34:VAL:HG22	2.19	0.42
3:1D:106:ILE:HG12	59:1D:415:HOH:O	2.18	0.42
3:1D:185:VAL:CG1	3:1D:186:HIS:N	2.83	0.42
4:1E:183:LEU:HD21	15:1T:10:VAL:HG13	2.00	0.42
6:1G:96:ARG:O	6:1G:97:ASP:C	2.62	0.42
11:1P:59:LEU:HD11	30:18:9:GLY:C	2.43	0.42
11:1P:93:GLY:N	11:1P:123:LEU:HD22	2.33	0.42
12:1Q:43:THR:HG22	12:1Q:94:VAL:CG1	2.25	0.42
12:1Q:61:GLY:O	21:1Z:178:GLU:HB2	2.20	0.42
14:1S:87:PHE:O	59:1S:302:HOH:O	2.21	0.42
15:1T:26:ASP:HA	15:1T:92:GLY:H	1.83	0.42
19:1X:95:LEU:HD12	19:1X:95:LEU:N	2.34	0.42
23:11:81:LYS:O	23:11:82:LEU:HD23	2.19	0.42
23:11:86:SER:HB2	23:11:87:PRO:HD2	2.00	0.42
26:14:16:CYS:SG	26:14:36:CYS:HB3	2.60	0.42
26:14:28:LYS:HD2	26:14:31:ILE:CD1	2.44	0.42
30:18:15:LYS:HB2	55:18:104:MPD:C3	2.31	0.42
32:1a:161:G:O2'	32:1a:162:G:H5'	2.19	0.42
32:1a:195:U:H2'	32:1a:196:G:C8	2.54	0.42
32:1a:241:C:O2	32:1a:279:C:N3	2.53	0.42
32:1a:273:C:H2'	32:1a:274:G:C8	2.51	0.42
32:1a:434:G:C4'	35:1d:123:HIS:CD2	2.95	0.42
32:1a:671:A:N3	32:1a:672:G:H1'	2.33	0.42
32:1a:768:C:C2'	32:1a:769:G:H5'	2.49	0.42
32:1a:1362:G:O2'	32:1a:1363:U:H5'	2.18	0.42
33:1b:164:VAL:O	33:1b:186:ALA:HB1	2.19	0.42
35:1d:4:TYR:O	35:1d:5:ILE:CG2	2.57	0.42
37:1f:30:LEU:C	37:1f:35:ALA:HB3	2.44	0.42
39:1h:31:PHE:O	39:1h:35:ILE:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:1t:64:ASP:O	51:1t:67:ALA:N	2.51	0.42
1:2A:632:G:H1	1:2A:642:C:H42	1.65	0.42
1:2A:633:C:N4	1:2A:641:G:H1	2.17	0.42
1:2A:892:C:N4	1:2A:975:G:H1	2.17	0.42
1:2A:1209:G:H2'	1:2A:1210:U:C6	2.54	0.42
1:2A:1332:A:N7	13:2R:106:GLY:HA3	2.33	0.42
1:2A:1543:C:H1'	1:2A:1623:C:O4'	2.19	0.42
1:2A:1884:A:H2'	1:2A:1885:G:C5'	2.49	0.42
1:2A:1898:A:H8	1:2A:1898:A:OP2	2.03	0.42
1:2A:2229:U:N3	23:21:55:GLY:O	2.52	0.42
1:2A:2320:A:H2'	1:2A:2321:A:O4'	2.19	0.42
1:2A:2700:U:OP2	1:2A:2731:G:N2	2.49	0.42
2:2B:38:C:H5'	14:2S:95:HIS:HE1	1.84	0.42
2:2B:38:C:H2'	2:2B:39:A:H8	1.85	0.42
4:2E:34:VAL:CG2	4:2E:48:GLN:HB3	2.50	0.42
5:2F:42:ALA:HB3	5:2F:99:TYR:CE1	2.53	0.42
12:2Q:58:PHE:O	12:2Q:60:ARG:N	2.53	0.42
12:2Q:61:GLY:CA	21:2Z:177:PRO:HB2	2.49	0.42
18:2W:48:ALA:O	18:2W:52:GLU:N	2.46	0.42
19:2X:72:LYS:HD3	19:2X:73:ARG:O	2.19	0.42
21:2Z:8:TYR:HD1	21:2Z:8:TYR:N	2.17	0.42
22:20:77:ARG:C	22:20:78:TYR:HD1	2.27	0.42
32:2a:7:G:HO2'	32:2a:294:A:H1'	1.83	0.42
32:2a:63:U:H5"	32:2a:381:C:O2	2.20	0.42
32:2a:170:C:H2'	32:2a:171:C:O4'	2.19	0.42
32:2a:366:C:N4	32:2a:387:G:H1	2.17	0.42
32:2a:574:C:C2'	32:2a:575:U:H5'	2.48	0.42
32:2a:1040:G:C2'	32:2a:1041:G:H5'	2.49	0.42
32:2a:1051:G:OP2	32:2a:1051:G:H8	2.01	0.42
32:2a:1143:G:H2'	32:2a:1144:C:C6	2.55	0.42
32:2a:1271:A:N1	32:2a:1354:G:O2'	2.52	0.42
33:2b:187:LEU:CA	33:2b:201:ILE:HB	2.49	0.42
34:2c:71:ALA:HB2	34:2c:109:PRO:HG3	2.00	0.42
34:2c:159:GLY:HA2	34:2c:193:TYR:CD2	2.54	0.42
34:2c:164:ARG:CZ	34:2c:166:GLU:OE2	2.67	0.42
37:2f:48:LEU:HG	37:2f:57:GLN:HA	2.01	0.42
40:2i:19:LEU:HD12	40:2i:84:ALA:CB	2.46	0.42
40:2i:48:GLU:OE2	40:2i:51:ARG:HD2	2.18	0.42
43:2l:8:ASN:CG	48:2q:34:LYS:HZ3	2.23	0.42
44:2m:84:ILE:HG13	44:2m:86:CYS:H	1.83	0.42
47:2p:2:VAL:HG13	47:2p:2:VAL:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:2r:66:LEU:HG	49:2r:70:ILE:CD1	2.49	0.42
1:1A:89:A:C2'	1:1A:90:G:H5'	2.50	0.42
1:1A:106:G:O2'	1:1A:107:G:H5'	2.20	0.42
1:1A:541:C:OP2	27:15:13:LYS:HE3	2.20	0.42
1:1A:547:C:O2'	1:1A:548:U:H5'	2.20	0.42
1:1A:580:G:H5'	9:1N:112:LEU:HB2	2.00	0.42
1:1A:721:A:H4'	5:1F:67:GLN:OE1	2.20	0.42
1:1A:742:G:O2'	1:1A:743:C:H5'	2.18	0.42
1:1A:757:G:O2'	1:1A:758:G:H5'	2.18	0.42
1:1A:993:C:O2'	1:1A:994:G:H5'	2.18	0.42
1:1A:1098:C:C2	1:1A:1152:G:C2	3.06	0.42
1:1A:1272:G:O2'	1:1A:1273:G:H5'	2.20	0.42
1:1A:1279:U:C2'	1:1A:1280:G:H5'	2.49	0.42
1:1A:2091:G:H2'	1:1A:2092:A:O4'	2.19	0.42
1:1A:2114:G:N2	1:1A:2217:C:N3	2.56	0.42
1:1A:2233:G:O2'	1:1A:2234:G:H5'	2.19	0.42
3:1D:154:LYS:C	3:1D:155:LEU:HD12	2.43	0.42
4:1E:16:ARG:O	4:1E:17:ASP:HB2	2.19	0.42
5:1F:93:LYS:HB3	5:1F:94:PRO:CD	2.49	0.42
6:1G:18:GLU:CG	6:1G:175:LEU:HD23	2.50	0.42
6:1G:59:GLU:O	6:1G:62:LEU:N	2.52	0.42
6:1G:59:GLU:CD	6:1G:153:ARG:HH21	2.27	0.42
8:1I:114:LEU:HD12	8:1I:129:THR:O	2.20	0.42
9:1N:72:TYR:N	9:1N:85:ILE:O	2.53	0.42
10:1O:44:LYS:O	10:1O:45:GLU:HB2	2.18	0.42
11:1P:99:LEU:HD23	11:1P:102:ARG:NE	2.35	0.42
16:1U:14:HIS:O	16:1U:18:LEU:HG	2.20	0.42
18:1W:6:ILE:HG12	18:1W:104:THR:HG23	2.01	0.42
19:1X:61:GLY:N	19:1X:75:ASP:OD1	2.28	0.42
21:1Z:8:TYR:HB2	21:1Z:38:TYR:CD1	2.53	0.42
22:10:24:LYS:O	22:10:25:ARG:HG2	2.20	0.42
30:18:14:VAL:CG2	30:18:15:LYS:H	2.22	0.42
32:1a:376:G:N2	32:1a:379:A:OP2	2.45	0.42
32:1a:522:G:O2'	32:1a:523:A:H5'	2.18	0.42
32:1a:810:C:H6	32:1a:810:C:O5'	2.03	0.42
32:1a:912:C:O2'	32:1a:1326:C:OP2	2.33	0.42
32:1a:986:C:O2'	32:1a:987:C:H5'	2.19	0.42
32:1a:1048:U:C1'	32:1a:1049:C:OP2	2.61	0.42
32:1a:1160:G:H1'	32:1a:1162:A:H62	1.85	0.42
32:1a:1267:A:C1'	32:1a:1268:A:OP2	2.59	0.42
33:1b:12:GLU:O	33:1b:13:ALA:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:137:ARG:HH12	33:1b:138:LEU:CD2	2.32	0.42
33:1b:208:ILE:CG1	33:1b:209:ARG:N	2.73	0.42
34:1c:132:ARG:HG2	34:1c:136:GLN:HE21	1.83	0.42
34:1c:152:ILE:HA	34:1c:167:TRP:CB	2.49	0.42
35:1d:191:ARG:HD3	35:1d:200:GLU:OE2	2.19	0.42
35:1d:207:TYR:C	35:1d:209:ARG:H	2.26	0.42
36:1e:39:GLY:CA	36:1e:69:VAL:HG22	2.49	0.42
36:1e:48:ALA:HB3	36:1e:54:ALA:N	2.34	0.42
44:1m:65:LYS:CE	44:1m:69:GLU:HG2	2.46	0.42
45:1n:12:ARG:HD2	45:1n:13:THR:O	2.19	0.42
51:1t:38:LYS:HG3	51:1t:39:LYS:N	2.35	0.42
1:2A:21:C:H2'	1:2A:22:G:O4'	2.20	0.42
1:2A:50:A:OP2	1:2A:114:G:N1	2.40	0.42
1:2A:63:C:H42	1:2A:87:G:H1	1.66	0.42
1:2A:202:G:HO2'	1:2A:203:G:P	2.35	0.42
1:2A:217:A:N3	1:2A:217:A:H2'	2.35	0.42
1:2A:314:C:H2'	1:2A:315:C:H6	1.84	0.42
1:2A:661:A:H8	11:2P:117:GLU:CG	2.31	0.42
1:2A:668:A:H5"	1:2A:669:C:P	2.59	0.42
1:2A:750:G:O2'	1:2A:771:G:O6	2.37	0.42
1:2A:1081:G:C2'	1:2A:1082:G:H5'	2.50	0.42
1:2A:1143:A:C2'	1:2A:1144:G:H5'	2.49	0.42
1:2A:1204:U:H2'	1:2A:1205:G:H5'	2.01	0.42
1:2A:1358:U:H4'	1:2A:1377:G:H4'	2.00	0.42
1:2A:1366:A:H2'	1:2A:1367:A:O4'	2.19	0.42
1:2A:1404:A:H5'	1:2A:1404:A:N3	2.35	0.42
1:2A:1502:G:H1	1:2A:2714:C:N4	2.13	0.42
1:2A:1857:C:H5'	1:2A:1992:A:H4'	2.01	0.42
1:2A:1877:A:C3'	1:2A:1878:A:H5'	2.48	0.42
1:2A:1970:G:C2'	1:2A:1971:G:H5'	2.49	0.42
3:2D:94:LEU:HD13	3:2D:94:LEU:C	2.45	0.42
5:2F:10:PRO:O	5:2F:124:LEU:HD12	2.19	0.42
6:2G:78:SER:O	6:2G:79:ASN:C	2.63	0.42
8:2I:5:LEU:CD1	8:2I:19:VAL:HG22	2.43	0.42
10:2O:61:VAL:O	10:2O:61:VAL:HG13	2.20	0.42
12:2Q:5:ARG:O	21:2Z:194:PRO:HA	2.18	0.42
16:2U:43:GLY:HA3	59:2V:301:HOH:O	2.18	0.42
18:2W:20:VAL:HG11	18:2W:47:VAL:HG21	2.01	0.42
26:24:40:HIS:HB3	26:24:43:TYR:CD2	2.55	0.42
32:2a:219:U:O2'	32:2a:220:C:H5'	2.18	0.42
32:2a:472:A:H2'	32:2a:473:C:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:578:G:C2'	32:2a:579:G:H5'	2.50	0.42
32:2a:589:U:H2'	32:2a:590:G:C5'	2.49	0.42
32:2a:589:U:O2'	32:2a:590:G:H5'	2.18	0.42
32:2a:765:A:H2'	32:2a:766:A:H5'	2.02	0.42
32:2a:1040:G:H2'	32:2a:1041:G:C5'	2.50	0.42
32:2a:1079:C:C2'	32:2a:1080:C:H5'	2.50	0.42
32:2a:1358:A:OP1	38:2g:12:LEU:HD11	2.20	0.42
33:2b:12:GLU:HB3	33:2b:213:LEU:HD11	2.02	0.42
34:2c:186:PHE:HA	34:2c:198:VAL:O	2.19	0.42
35:2d:9:CYS:HB3	35:2d:32:ALA:CB	2.50	0.42
36:2e:9:LYS:HD2	36:2e:108:ALA:HB1	2.01	0.42
37:2f:9:VAL:CB	37:2f:87:ARG:HB2	2.46	0.42
40:2i:47:LEU:HD23	40:2i:81:ILE:HD11	2.01	0.42
41:2j:39:PRO:HA	41:2j:70:ARG:NH1	2.34	0.42
44:2m:29:ARG:HG3	44:2m:64:TRP:CZ2	2.54	0.42
48:2q:9:VAL:HG12	48:2q:10:VAL:N	2.34	0.42
1:1A:115:A:H3'	1:1A:116:A:C5'	2.50	0.42
1:1A:551:C:H1'	1:1A:552:A:C2	2.54	0.42
1:1A:600:A:H5'	1:1A:1299:A:OP1	2.20	0.42
1:1A:671:G:N3	1:1A:2361:C:O2'	2.52	0.42
1:1A:810:A:O2'	1:1A:811:G:H5"	2.19	0.42
1:1A:862:C:P	59:1A:3921:HOH:O	2.77	0.42
1:1A:890:C:H2'	1:1A:891:G:C5'	2.46	0.42
1:1A:905:G:O2'	1:1A:961:G:O6	2.33	0.42
1:1A:1134:G:H4'	1:1A:1135:U:OP1	2.20	0.42
1:1A:1163:C:O2'	1:1A:1164:C:H5'	2.19	0.42
1:1A:1584:G:H2'	1:1A:1585:G:C8	2.55	0.42
1:1A:1670:C:H2'	1:1A:1671:G:C5'	2.50	0.42
1:1A:1684:C:O3'	1:1A:2720:G:N2	2.53	0.42
1:1A:1859:A:H2'	1:1A:1860:C:H5'	2.00	0.42
1:1A:2478:C:P	31:19:6:SER:OG	2.77	0.42
2:1B:45:A:H2'	2:1B:46:A:H5'	2.02	0.42
3:1D:172:TYR:CE2	3:1D:269:PHE:CE1	3.07	0.42
4:1E:173:VAL:CG2	4:1E:185:LYS:HB2	2.48	0.42
5:1F:57:VAL:HG22	5:1F:58:ALA:N	2.33	0.42
5:1F:101:LEU:CD1	5:1F:102:PRO:HD2	2.50	0.42
5:1F:183:VAL:O	5:1F:186:ILE:N	2.52	0.42
6:1G:106:LEU:HA	6:1G:110:ALA:CB	2.50	0.42
8:1I:1:MET:SD	8:1I:23:PRO:HA	2.60	0.42
10:1O:48:PRO:CB	32:1a:1405:G:H5"	2.28	0.42
12:1Q:52:VAL:HA	12:1Q:55:VAL:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1Q:139:GLU:C	12:1Q:141:GLN:H	2.27	0.42
13:1R:45:ARG:HD3	13:1R:97:VAL:HG21	2.01	0.42
15:1T:45:PHE:HE1	15:1T:65:LYS:CG	2.31	0.42
19:1X:44:GLU:C	19:1X:46:ALA:H	2.26	0.42
21:1Z:77:ASP:O	21:1Z:81:ARG:N	2.53	0.42
21:1Z:139:VAL:CG1	21:1Z:150:LEU:HD21	2.49	0.42
24:12:54:LYS:CB	59:12:101:HOH:O	2.67	0.42
32:1a:41:C:C2'	32:1a:42:G:H5'	2.49	0.42
32:1a:109:G:H1	32:1a:308:C:H42	1.65	0.42
32:1a:326:C:H2'	32:1a:327:G:H5'	2.01	0.42
32:1a:628:G:H2'	32:1a:629:C:H5'	2.01	0.42
32:1a:726:G:O2'	32:1a:727:U:H5'	2.19	0.42
32:1a:787:G:H5"	59:1a:2007:HOH:O	2.19	0.42
32:1a:960:U:C5'	45:1n:6:LEU:HD21	2.36	0.42
32:1a:1298:G:H5"	45:1n:17:LYS:HZ2	1.80	0.42
32:1a:1446:A:H2'	32:1a:1447:G:O4'	2.19	0.42
32:1a:1471:A:OP2	43:1l:47:LYS:NZ	2.28	0.42
34:1c:59:ARG:HG2	34:1c:64:VAL:CG2	2.49	0.42
34:1c:169:ALA:O	34:1c:170:GLN:HB2	2.20	0.42
35:1d:23:GLY:HA3	35:1d:112:VAL:CB	2.38	0.42
35:1d:39:PRO:HD2	35:1d:44:GLY:O	2.19	0.42
38:1g:17:VAL:HB	38:1g:44:TYR:CE1	2.54	0.42
38:1g:152:ALA:O	38:1g:155:ARG:HB3	2.20	0.42
39:1h:19:VAL:CG2	39:1h:21:LYS:HE2	2.50	0.42
40:1i:16:ARG:HD3	40:1i:66:ARG:HH22	1.84	0.42
40:1i:50:LEU:CD1	40:1i:56:LEU:HA	2.27	0.42
41:1j:44:VAL:HG11	41:1j:46:ARG:CZ	2.49	0.42
47:1p:72:ARG:HA	47:1p:75:ARG:CG	2.50	0.42
52:1u:6:ARG:HH21	52:1u:15:ARG:HH22	1.66	0.42
1:2A:654:G:OP1	30:28:47:LYS:NZ	2.50	0.42
1:2A:661:A:C6	1:2A:676:C:H4'	2.54	0.42
1:2A:752:A:C2	1:2A:753:G:H1'	2.55	0.42
1:2A:1245:C:O2'	1:2A:1246:C:H5'	2.20	0.42
1:2A:1269:C:O2'	17:2V:85:LYS:CG	2.67	0.42
1:2A:1659:A:N6	18:2W:92:ARG:O	2.53	0.42
1:2A:1881:U:O2'	1:2A:1882:C:H5'	2.20	0.42
1:2A:1971:G:N1	1:2A:1975:G:O2'	2.33	0.42
1:2A:2140:A:N6	1:2A:2189:G:H21	2.10	0.42
1:2A:2544:A:H2'	1:2A:2545:A:O4'	2.18	0.42
1:2A:2653:G:H4'	9:2N:78:TYR:CD2	2.54	0.42
1:2A:2691:C:H5'	4:2E:189:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2741:G:H2'	1:2A:2742:C:H6	1.83	0.42
1:2A:2854:G:H2'	1:2A:2855:G:C8	2.54	0.42
3:2D:273:ARG:O	3:2D:274:ARG:C	2.61	0.42
4:2E:11:MET:HE3	4:2E:24:THR:HG22	2.01	0.42
4:2E:22:PRO:O	4:2E:185:LYS:HA	2.20	0.42
5:2F:132:VAL:O	5:2F:132:VAL:HG23	2.18	0.42
6:2G:167:GLU:C	6:2G:169:ALA:H	2.27	0.42
7:2H:58:GLU:OE2	7:2H:61:HIS:NE2	2.52	0.42
9:2N:1:MET:HE1	16:2U:94:ASN:HD22	1.82	0.42
11:2P:10:PRO:C	11:2P:12:ALA:H	2.27	0.42
15:2T:22:PHE:HA	15:2T:91:ARG:HH12	1.83	0.42
17:2V:30:GLY:H	17:2V:61:VAL:CG2	2.24	0.42
22:20:36:ILE:HD13	22:20:60:PHE:CB	2.50	0.42
25:23:10:LYS:NZ	25:23:15:TYR:OH	2.47	0.42
30:28:11:LYS:HE2	30:28:65:GLU:OE2	2.20	0.42
32:2a:523:A:O2'	32:2a:524:G:H5'	2.18	0.42
32:2a:734:G:H21	46:2o:23:GLY:C	2.26	0.42
32:2a:797:U:C2'	32:2a:798:A:H5'	2.48	0.42
32:2a:947:A:H4'	32:2a:947:A:OP1	2.20	0.42
32:2a:1382:C:C4'	32:2a:1383:5MC:H5"	2.37	0.42
33:2b:23:ARG:HG3	33:2b:23:ARG:O	2.20	0.42
33:2b:118:LEU:HD12	33:2b:145:LEU:HD12	2.02	0.42
33:2b:181:PHE:N	33:2b:181:PHE:CD1	2.88	0.42
34:2c:53:ALA:CA	34:2c:115:LEU:HD11	2.49	0.42
37:2f:46:ARG:NH1	37:2f:60:PHE:CD2	2.88	0.42
41:2j:39:PRO:CB	41:2j:70:ARG:HH12	2.32	0.42
43:2l:90:VAL:CG2	43:2l:96:VAL:HG11	2.50	0.42
47:2p:44:THR:HG23	47:2p:45:THR:H	1.84	0.42
1:1A:353:A:C2	1:1A:1254:A:O2'	2.67	0.42
1:1A:491:A:OP1	59:1A:4384:HOH:O	2.22	0.42
1:1A:1126:U:O2'	1:1A:1127:U:H5'	2.20	0.42
1:1A:1174:A:O2'	1:1A:2526:C:O2'	2.30	0.42
1:1A:1216:G:H3'	1:1A:1217:G:H5'	2.02	0.42
1:1A:1496:G:H2'	1:1A:1497:C:H6	1.84	0.42
1:1A:1785:A:OP2	15:1T:113:LYS:NZ	2.50	0.42
1:1A:1791:C:H2'	1:1A:1792:A:H5'	2.01	0.42
1:1A:1896:C:H2'	1:1A:1897:A:O4'	2.19	0.42
1:1A:1960:5MU:O2	1:1A:2603:G:H4'	2.19	0.42
1:1A:2304:C:N3	1:1A:2350:G:N1	2.47	0.42
1:1A:2439:G:H5"	1:1A:2440:G:P	2.59	0.42
1:1A:2505:G:H2'	1:1A:2506:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2635:G:C2'	1:1A:2636:G:H5'	2.50	0.42
1:1A:2700:U:O2	1:1A:2700:U:H2'	2.18	0.42
1:1A:2803:C:H5'	1:1A:2901:G:C2	2.54	0.42
1:1A:2823:C:H2'	1:1A:2824:C:H5'	2.02	0.42
2:1B:115:G:O2'	14:1S:50:SER:OG	2.26	0.42
3:1D:39:LYS:HE3	59:1D:413:HOH:O	2.18	0.42
4:1E:19:ARG:HA	10:1O:72:PRO:O	2.19	0.42
6:1G:35:GLU:HB2	6:1G:160:VAL:C	2.45	0.42
6:1G:106:LEU:CG	6:1G:111:LEU:HD23	2.42	0.42
7:1H:6:ARG:HH22	7:1H:54:ARG:HH22	1.67	0.42
8:1I:74:ASN:O	8:1I:75:LEU:HB3	2.20	0.42
8:1I:79:ILE:HD13	8:1I:92:VAL:CG2	2.50	0.42
8:1I:136:VAL:O	8:1I:136:VAL:HG12	2.19	0.42
11:1P:18:ARG:NH2	59:1P:311:HOH:O	2.30	0.42
14:1S:47:THR:C	14:1S:48:LEU:HD12	2.45	0.42
19:1X:11:PRO:HD3	24:12:37:PHE:CD1	2.54	0.42
20:1Y:90:LEU:HD13	20:1Y:96:ILE:HG23	2.00	0.42
21:1Z:75:ASN:HA	59:1Z:8101:HOH:O	2.19	0.42
22:10:52:GLY:O	22:10:59:LEU:HA	2.19	0.42
25:13:18:ASP:O	25:13:21:ALA:HB3	2.20	0.42
32:1a:61:A:N7	32:1a:104:C:N4	2.65	0.42
32:1a:204:A:N6	32:1a:217:C:H4'	2.35	0.42
32:1a:251:G:C1'	48:1q:16:GLN:HE21	2.23	0.42
32:1a:342:G:H5"	55:1a:1900:MPD:C4	2.49	0.42
32:1a:584:C:H2'	32:1a:585:C:H6	1.84	0.42
32:1a:712:A:H8	32:1a:712:A:O5'	2.02	0.42
32:1a:714:G:H2'	32:1a:715:G:C5'	2.47	0.42
32:1a:735:U:OP2	59:1a:2070:HOH:O	2.21	0.42
32:1a:812:A:H2'	32:1a:813:G:O4'	2.19	0.42
32:1a:933:U:C2	32:1a:1207:A:N1	2.88	0.42
32:1a:1136:C:H2'	32:1a:1137:G:O5'	2.20	0.42
32:1a:1189:2MG:HO2'	32:1a:1190:C:P	2.42	0.42
32:1a:1202:G:N3	50:1s:54:GLY:HA2	2.35	0.42
32:1a:1221:A:H62	32:1a:1281:A:N6	2.17	0.42
32:1a:1414:C:O2'	32:1a:1415:G:H5'	2.20	0.42
32:1a:1434:G:C2	51:1t:51:GLU:OE2	2.72	0.42
33:1b:127:ILE:CG2	33:1b:130:ARG:HG2	2.41	0.42
33:1b:174:VAL:HG11	33:1b:196:LEU:CG	2.49	0.42
34:1c:11:ARG:NH2	34:1c:177:THR:O	2.49	0.42
36:1e:105:VAL:HB	36:1e:106:PRO:CD	2.50	0.42
41:1j:81:THR:HA	41:1j:84:GLN:NE2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:1k:16:SER:OG	42:1k:79:SER:HB3	2.20	0.42
42:1k:34:ASP:OD1	42:1k:37:GLY:N	2.53	0.42
42:1k:73:MET:CG	42:1k:103:LEU:HD21	2.49	0.42
42:1k:124:LYS:HG3	42:1k:125:PHE:CE1	2.54	0.42
44:1m:53:VAL:HG12	44:1m:57:ARG:CZ	2.50	0.42
48:1q:42:TYR:HD2	48:1q:71:PHE:CD2	2.37	0.42
48:1q:50:LYS:HG3	48:1q:51:TYR:CD2	2.55	0.42
49:1r:55:ARG:O	49:1r:55:ARG:HG3	2.19	0.42
1:2A:172:C:H2'	1:2A:173:U:C6	2.52	0.42
1:2A:513:G:N2	1:2A:515:G:H3'	2.34	0.42
1:2A:775:G:N9	3:2D:208:LYS:HD2	2.35	0.42
1:2A:789:G:N2	1:2A:790:G:H1'	2.34	0.42
1:2A:1023:G:H1	1:2A:1030:C:H42	1.66	0.42
1:2A:1713:G:O2'	1:2A:2012:U:O4	2.25	0.42
1:2A:2149:C:C1'	1:2A:2194:A:H2	2.32	0.42
7:2H:3:ARG:HH12	7:2H:5:GLY:H	1.66	0.42
7:2H:18:GLU:OE2	7:2H:25:LYS:HG3	2.19	0.42
7:2H:87:LEU:N	7:2H:131:VAL:O	2.51	0.42
11:2P:83:VAL:HG23	11:2P:114:ILE:HA	2.01	0.42
13:2R:61:HIS:NE2	13:2R:65:LEU:HD11	2.35	0.42
16:2U:76:TYR:CD1	16:2U:80:ILE:HD11	2.55	0.42
17:2V:61:VAL:HG23	17:2V:61:VAL:O	2.18	0.42
18:2W:92:ARG:HG2	18:2W:93:ALA:N	2.34	0.42
28:26:13:CYS:O	28:26:17:LYS:N	2.48	0.42
32:2a:96:G:C2'	32:2a:97:C:H5'	2.49	0.42
32:2a:288:G:N7	32:2a:289:G:H1'	2.35	0.42
32:2a:461:G:O2'	32:2a:462:G:H5'	2.19	0.42
32:2a:768:C:H2'	32:2a:769:G:H8	1.85	0.42
32:2a:787:G:H2'	32:2a:788:U:O4'	2.18	0.42
32:2a:945:5MC:OP2	32:2a:947:A:H5"	2.19	0.42
32:2a:1301:A:OP2	50:2s:3:ARG:HB2	2.19	0.42
32:2a:1425:G:N3	32:2a:1425:G:C2'	2.81	0.42
32:2a:1441:C:H2'	32:2a:1442:G:C5'	2.50	0.42
32:2a:1495:G:O6	32:2a:1496:MA6:H92	2.19	0.42
33:2b:74:LYS:NZ	33:2b:166:ASP:OD2	2.40	0.42
35:2d:79:PHE:CG	35:2d:207:TYR:HD2	2.37	0.42
36:2e:43:LEU:HD23	36:2e:133:TYR:HD1	1.84	0.42
36:2e:103:GLY:C	36:2e:105:VAL:H	2.28	0.42
37:2f:11:ASN:N	37:2f:84:ASN:O	2.51	0.42
37:2f:43:LEU:CD2	37:2f:46:ARG:HH22	2.31	0.42
37:2f:43:LEU:HD12	37:2f:43:LEU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:2g:58:PRO:HA	38:2g:61:VAL:HB	2.02	0.42
40:2i:8:GLY:HA2	40:2i:79:LEU:HB3	2.00	0.42
43:2l:113:ARG:HB3	43:2l:122:THR:CB	2.49	0.42
44:2m:33:ALA:HA	44:2m:59:TYR:CE2	2.54	0.42
49:2r:47:THR:O	49:2r:82:THR:HA	2.20	0.42
51:2t:59:ALA:O	51:2t:63:ILE:HG13	2.20	0.42
1:1A:629:U:OP1	5:1F:102:PRO:HA	2.20	0.42
1:1A:720:G:H21	5:1F:74:ARG:HH12	1.67	0.42
1:1A:1333:U:H3	1:1A:1371:U:H3	1.66	0.42
1:1A:1538:C:H4'	1:1A:1539:A:OP2	2.19	0.42
1:1A:1700:A:C2	4:1E:113:PHE:HD2	2.38	0.42
1:1A:1783:G:N2	1:1A:1785:A:H3'	2.35	0.42
1:1A:1784:C:H2'	1:1A:1785:A:O4'	2.19	0.42
1:1A:1874:C:H4'	3:1D:258:LYS:HE3	2.01	0.42
1:1A:1881:U:O2'	1:1A:1882:C:H5'	2.20	0.42
1:1A:2052:A:H1'	1:1A:2466:G:HO2'	1.83	0.42
1:1A:2134:U:O4	1:1A:2189:G:O2'	2.32	0.42
1:1A:2177:G:C2'	1:1A:2178:G:H5'	2.49	0.42
1:1A:2271:C:O2'	1:1A:2272:C:H5'	2.19	0.42
1:1A:2544:A:O2'	1:1A:2545:A:H5'	2.20	0.42
1:1A:2588:A:O4'	27:15:3:LYS:HB2	2.20	0.42
1:1A:2871:G:C2'	1:1A:2872:C:H5'	2.49	0.42
2:1B:7:G:H8	2:1B:7:G:C5'	2.32	0.42
4:1E:101:ARG:HA	4:1E:170:LEU:O	2.19	0.42
7:1H:94:TYR:CE2	7:1H:160:LYS:HG2	2.54	0.42
8:1I:53:ALA:O	8:1I:56:LYS:N	2.52	0.42
8:1I:99:GLU:O	8:1I:102:SER:OG	2.29	0.42
9:1N:7:LYS:O	9:1N:9:VAL:HG13	2.19	0.42
9:1N:15:LEU:HD13	9:1N:15:LEU:C	2.44	0.42
12:1Q:29:PHE:CB	12:1Q:65:PHE:HE2	2.32	0.42
13:1R:2:ARG:O	13:1R:2:ARG:CD	2.67	0.42
13:1R:8:ARG:HD3	13:1R:43:GLU:HG3	2.02	0.42
20:1Y:52:SER:O	20:1Y:55:TYR:N	2.53	0.42
27:15:16:ARG:HG3	27:15:17:ASP:N	2.34	0.42
28:16:11:LEU:O	28:16:19:ARG:HA	2.20	0.42
32:1a:113:A:H4'	32:1a:114:A:C4	2.55	0.42
32:1a:116:G:H2'	32:1a:117:C:O4'	2.19	0.42
32:1a:837:A:H2'	32:1a:838:A:O4'	2.20	0.42
32:1a:1076:A:C2	32:1a:1078:U:H5'	2.55	0.42
32:1a:1136:C:C2'	32:1a:1137:G:O5'	2.68	0.42
32:1a:1368:G:H2'	32:1a:1369:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:135:GLN:O	33:1b:136:VAL:C	2.63	0.42
33:1b:163:PHE:HD1	33:1b:185:ILE:CG1	2.26	0.42
37:1f:75:LEU:O	37:1f:78:GLU:HB3	2.20	0.42
38:1g:85:TYR:HD1	38:1g:151:TYR:CE2	2.38	0.42
39:1h:38:ILE:HD13	39:1h:41:ARG:HH21	1.85	0.42
42:1k:62:GLN:HG2	42:1k:66:LEU:CD1	2.50	0.42
44:1m:62:ASN:O	44:1m:63:THR:HG23	2.20	0.42
46:1o:9:GLN:O	46:1o:12:ILE:HB	2.20	0.42
1:2A:666:G:H21	1:2A:670:A:H62	1.67	0.42
1:2A:827:A:P	3:2D:218:ARG:HH22	2.36	0.42
1:2A:1359:C:N4	1:2A:1383:G:H1	2.13	0.42
1:2A:1491:C:O2'	1:2A:1492:C:H5'	2.20	0.42
1:2A:1645:C:H2'	1:2A:1646:G:C8	2.54	0.42
1:2A:1756:C:C1'	1:2A:2868:G:H21	2.32	0.42
1:2A:1850:U:O2'	3:2D:158:ALA:HB1	2.19	0.42
1:2A:2267:G:O2'	1:2A:2268:U:H5'	2.20	0.42
1:2A:2628:C:H2'	1:2A:2629:G:C5'	2.50	0.42
1:2A:2653:G:O2'	1:2A:2654:G:H5'	2.19	0.42
1:2A:2708:G:O2'	1:2A:2709:U:H5'	2.20	0.42
1:2A:2749:G:H1	1:2A:2779:C:N4	2.18	0.42
1:2A:2773:G:H2'	1:2A:2774:G:H8	1.85	0.42
1:2A:2829:A:OP1	13:2R:4:LEU:HA	2.20	0.42
1:2A:2855:G:OP1	15:2T:54:ARG:HB2	2.19	0.42
4:2E:9:VAL:HG12	4:2E:25:VAL:C	2.44	0.42
4:2E:18:ASP:CB	15:2T:82:LEU:HD11	2.49	0.42
5:2F:176:LEU:HD11	5:2F:181:LEU:N	2.35	0.42
6:2G:32:PRO:CG	6:2G:168:GLU:HB3	2.50	0.42
6:2G:156:ASP:C	6:2G:157:ILE:HG13	2.45	0.42
7:2H:3:ARG:NH2	7:2H:65:HIS:HB3	2.35	0.42
7:2H:87:LEU:HD21	7:2H:164:TYR:CD1	2.50	0.42
13:2R:55:ALA:HB2	13:2R:79:LEU:HD22	2.00	0.42
13:2R:100:LEU:O	27:25:44:THR:HB	2.20	0.42
17:2V:16:PRO:HA	17:2V:96:ILE:HG22	2.01	0.42
18:2W:11:ARG:NH2	18:2W:98:LYS:HB3	2.34	0.42
28:26:9:LEU:HD21	28:26:25:LYS:HB3	2.00	0.42
32:2a:138:A:O3'	32:2a:139:G:H8	2.03	0.42
32:2a:296:A:H2'	32:2a:548:C:H42	1.84	0.42
32:2a:544:U:H5'	32:2a:550:G:N2	2.34	0.42
32:2a:581:G:H3'	32:2a:582:U:C6	2.55	0.42
32:2a:752:A:OP1	32:2a:788:U:H4'	2.19	0.42
32:2a:1141:C:O2	32:2a:1141:C:C2'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1148:C:H2'	32:2a:1149:G:H5'	2.01	0.42
32:2a:1233:A:H2'	32:2a:1234:A:O4'	2.20	0.42
32:2a:1270:A:H4'	52:2u:10:ARG:HH12	1.85	0.42
33:2b:184:VAL:HB	33:2b:198:ASP:H	1.84	0.42
36:2e:6:PHE:HD1	36:2e:36:ASP:HB3	1.84	0.42
36:2e:12:LEU:HB3	36:2e:31:LEU:HB3	2.02	0.42
36:2e:76:ILE:HG13	36:2e:93:PRO:HG3	2.01	0.42
37:2f:55:ASP:HA	37:2f:56:PRO:HD3	1.90	0.42
39:2h:112:LEU:C	39:2h:112:LEU:HD12	2.45	0.42
42:2k:46:GLY:H	42:2k:55:LYS:HD2	1.84	0.42
42:2k:53:SER:O	42:2k:56:GLY:N	2.49	0.42
44:2m:94:ARG:NH1	50:2s:80:TYR:CD2	2.87	0.42
46:2o:11:VAL:O	46:2o:12:ILE:C	2.62	0.42
48:2q:22:LEU:HD12	48:2q:40:LYS:C	2.44	0.42
48:2q:51:TYR:CZ	48:2q:73:VAL:HG11	2.55	0.42
48:2q:95:TYR:O	48:2q:98:LEU:HB2	2.20	0.42
51:2t:12:ALA:O	51:2t:15:ARG:HB3	2.20	0.42
1:1A:1346:A:H2'	1:1A:1346:A:N3	2.34	0.42
1:1A:1555:A:O5'	1:1A:1555:A:N3	2.53	0.42
1:1A:1834:C:C2'	1:1A:1835:U:H5'	2.50	0.42
1:1A:2009:C:C2'	1:1A:2010:G:H5'	2.50	0.42
1:1A:2063:A:C2'	1:1A:2064:C:H5'	2.45	0.42
1:1A:2324:C:O2'	1:1A:2325:C:H5'	2.19	0.42
1:1A:2563:OMU:C2	1:1A:2565:U:H5'	2.50	0.42
1:1A:2815:G:O2'	1:1A:2816:G:H5'	2.20	0.42
3:1D:186:HIS:HB2	59:1D:443:HOH:O	2.20	0.42
7:1H:124:GLU:HG3	7:1H:132:ARG:HB3	2.02	0.42
14:1S:10:ARG:O	14:1S:14:VAL:HG22	2.19	0.42
21:1Z:76:LEU:HA	21:1Z:82:ARG:O	2.20	0.42
24:12:68:ARG:C	24:12:70:GLN:N	2.77	0.42
32:1a:87:C:H2'	32:1a:88:C:H6	1.83	0.42
32:1a:428:A:H5"	32:1a:429:C:OP2	2.20	0.42
32:1a:493:A:H3'	32:1a:493:A:H8	1.85	0.42
32:1a:603:U:C4	35:1d:135:LEU:HD11	2.55	0.42
32:1a:961:A:H2	32:1a:962:C:C6	2.37	0.42
32:1a:1108:U:C6	41:1j:38:ILE:HG21	2.55	0.42
32:1a:1147:G:H1	32:1a:1154:C:H42	1.66	0.42
32:1a:1261:A:O2'	32:1a:1264:C:N4	2.53	0.42
32:1a:1405:G:O2'	32:1a:1406:G:H5'	2.20	0.42
32:1a:1441:C:C2'	32:1a:1442:G:H5'	2.50	0.42
36:1e:105:VAL:HB	36:1e:106:PRO:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:19:LEU:HD21	37:1f:59:TYR:CE2	2.54	0.42
39:1h:44:PHE:HA	39:1h:79:VAL:HG11	2.00	0.42
47:1p:39:TYR:CZ	47:1p:41:PRO:HA	2.55	0.42
48:1q:17:LYS:O	48:1q:18:THR:OG1	2.33	0.42
1:2A:27:A:O2'	1:2A:28:U:H5'	2.20	0.42
1:2A:59:G:C8	24:22:47:ASN:HB2	2.55	0.42
1:2A:172:C:O2'	1:2A:173:U:H5'	2.20	0.42
1:2A:433:G:H2'	1:2A:434:G:H8	1.85	0.42
1:2A:889:G:H1	1:2A:979:C:N4	2.18	0.42
1:2A:947:C:H2'	1:2A:948:C:C6	2.55	0.42
1:2A:1003:A:N6	12:2Q:83:MET:CE	2.82	0.42
1:2A:1297:G:C5	16:2U:36:ARG:HD2	2.55	0.42
1:2A:1940:A:C2'	1:2A:1941:OMC:H5"	2.50	0.42
1:2A:1964:U:O4'	1:2A:1966:G:H5'	2.20	0.42
1:2A:2292:C:C2'	1:2A:2293:G:H5'	2.50	0.42
1:2A:2727:C:H2'	1:2A:2728:U:H6	1.84	0.42
1:2A:2737:A:H1'	1:2A:2738:U:C6	2.55	0.42
2:2B:86:G:H2'	2:2B:87:G:H8	1.85	0.42
2:2B:91:C:C2'	2:2B:92:C:H5'	2.50	0.42
2:2B:106:G:H5'	21:2Z:31:ARG:HG3	2.02	0.42
3:2D:144:ALA:HB3	3:2D:192:THR:HB	2.02	0.42
3:2D:254:THR:N	59:2D:404:HOH:O	2.31	0.42
5:2F:123:LEU:HD13	5:2F:192:LEU:HD22	2.00	0.42
5:2F:129:PHE:CE2	5:2F:163:VAL:HG11	2.54	0.42
8:2I:69:LYS:CB	8:2I:138:ILE:HG12	2.49	0.42
10:2O:107:ARG:HG2	10:2O:115:VAL:HG21	2.02	0.42
11:2P:2:LYS:HZ2	11:2P:4:SER:HG	1.59	0.42
11:2P:57:THR:OG1	11:2P:60:MET:HB2	2.20	0.42
12:2Q:54:MET:O	12:2Q:57:HIS:N	2.49	0.42
16:2U:49:HIS:O	16:2U:53:ARG:N	2.53	0.42
16:2U:72:HIS:ND1	16:2U:110:VAL:HG21	2.35	0.42
16:2U:91:ASP:O	16:2U:95:LEU:HD13	2.20	0.42
17:2V:9:GLY:C	17:2V:10:LYS:HG3	2.45	0.42
17:2V:80:GLN:HA	17:2V:82:ARG:NH1	2.34	0.42
21:2Z:33:LEU:HD11	21:2Z:90:VAL:CG2	2.49	0.42
21:2Z:99:TYR:HA	21:2Z:124:ILE:C	2.45	0.42
23:21:89:GLU:HA	23:21:92:LYS:HD3	2.02	0.42
27:25:58:LEU:HD23	27:25:59:GLU:O	2.20	0.42
32:2a:148:C:N3	32:2a:164:C:N4	2.68	0.42
32:2a:149:C:C2'	32:2a:150:C:H5'	2.49	0.42
32:2a:579:G:H8	32:2a:579:G:O5'	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:766:A:O3'	32:2a:1493:C:H4'	2.20	0.42
32:2a:910:C:H5"	38:2g:4:ARG:CZ	2.50	0.42
32:2a:994:A:O3'	45:2n:15:LYS:NZ	2.53	0.42
32:2a:1238:A:H5"	32:2a:1239:U:OP1	2.19	0.42
32:2a:1345:C:OP1	32:2a:1346:A:H3'	2.19	0.42
32:2a:1380:C:H4'	32:2a:1381:A:OP2	2.19	0.42
33:2b:229:VAL:CG1	33:2b:230:VAL:N	2.82	0.42
34:2c:184:TYR:OH	34:2c:199:LYS:HD2	2.20	0.42
35:2d:41:GLY:C	35:2d:43:HIS:N	2.78	0.42
38:2g:70:LYS:HB3	38:2g:96:GLN:HB3	2.01	0.42
42:2k:59:TYR:HA	42:2k:62:GLN:CB	2.49	0.42
43:2l:38:THR:OG1	43:2l:57:LYS:HB3	2.19	0.42
47:2p:55:ARG:O	47:2p:58:TYR:N	2.53	0.42
48:2q:63:ARG:O	48:2q:65:ILE:HD12	2.20	0.42
49:2r:66:LEU:HD21	49:2r:70:ILE:HD11	2.01	0.42
50:2s:69:HIS:CD2	50:2s:73:GLU:OE1	2.73	0.42
1:1A:241:C:H2'	1:1A:242:G:C5'	2.50	0.42
1:1A:636:U:H5'	1:1A:639:A:N6	2.35	0.42
1:1A:1115:A:O2'	1:1A:1116:G:OP1	2.35	0.42
1:1A:1227:G:O2'	1:1A:1228:G:H5'	2.20	0.42
1:1A:1709:C:HO2'	1:1A:1710:A:P	2.40	0.42
1:1A:1815:A:O5'	1:1A:2003:C:H4'	2.19	0.42
1:1A:2115:G:H1	1:1A:2216:C:N4	2.16	0.42
1:1A:2265:C:H2'	1:1A:2266:G:H5'	2.02	0.42
1:1A:2284:A:H2'	1:1A:2285:A:C8	2.55	0.42
1:1A:2628:C:O2'	1:1A:2629:G:H5'	2.20	0.42
1:1A:2700:U:O2	1:1A:2700:U:H5'	2.20	0.42
3:1D:68:LYS:C	3:1D:70:TRP:N	2.76	0.42
3:1D:172:TYR:CE1	3:1D:186:HIS:CD2	3.05	0.42
4:1E:110:GLY:CA	4:1E:162:ALA:HB2	2.49	0.42
6:1G:39:ILE:HA	6:1G:156:ASP:O	2.20	0.42
8:1I:123:LEU:HD23	8:1I:144:VAL:HG12	2.00	0.42
9:1N:123:TYR:N	9:1N:123:TYR:CD1	2.88	0.42
11:1P:113:LYS:HG3	11:1P:129:ALA:O	2.19	0.42
12:1Q:93:TYR:OH	21:1Z:194:PRO:HG2	2.20	0.42
16:1U:17:ILE:HG23	16:1U:39:LEU:CD1	2.45	0.42
18:1W:37:ARG:CG	18:1W:38:TYR:HE1	2.32	0.42
18:1W:88:ARG:HG3	18:1W:94:ASP:OD2	2.20	0.42
19:1X:32:PRO:HA	19:1X:77:LYS:CD	2.50	0.42
21:1Z:119:GLU:O	21:1Z:120:ILE:C	2.62	0.42
21:1Z:125:LEU:HG	21:1Z:164:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:57:GLU:HB3	26:14:58:ARG:HG2	2.02	0.42
32:1a:441:G:H2'	32:1a:442:G:C5'	2.50	0.42
32:1a:563:G:O3'	46:1o:54:ARG:NH2	2.44	0.42
32:1a:752:A:N3	32:1a:1490:U:O2'	2.51	0.42
32:1a:776:A:H4'	32:1a:777:U:C5'	2.49	0.42
32:1a:1497:MA6:H8	32:1a:1497:MA6:O5'	2.20	0.42
34:1c:156:ARG:NH2	34:1c:161:GLU:HA	2.35	0.42
36:1e:12:LEU:C	36:1e:13:ILE:HD12	2.45	0.42
36:1e:18:ARG:HG2	36:1e:25:ARG:O	2.20	0.42
36:1e:28:PHE:CD1	36:1e:28:PHE:N	2.86	0.42
38:1g:40:ALA:O	38:1g:44:TYR:HD2	2.02	0.42
38:1g:90:GLU:OE1	38:1g:90:GLU:N	2.42	0.42
40:1i:112:LYS:HD3	40:1i:112:LYS:O	2.20	0.42
41:1j:51:ARG:HH11	45:1n:45:ARG:NH2	2.18	0.42
44:1m:92:HIS:HA	44:1m:110:ARG:HH22	1.85	0.42
48:1q:16:GLN:O	48:1q:17:LYS:HB2	2.20	0.42
49:1r:34:TYR:HA	49:1r:69:THR:HG23	2.00	0.42
49:1r:39:VAL:O	49:1r:42:ARG:HB3	2.19	0.42
49:1r:45:SER:C	49:1r:47:THR:H	2.27	0.42
51:1t:17:ARG:O	51:1t:18:GLN:C	2.62	0.42
1:2A:270:U:O4'	8:2I:50:ARG:NH2	2.53	0.42
1:2A:278:G:H2'	1:2A:279:C:H5'	2.00	0.42
1:2A:406:U:H4'	23:21:16:ASN:O	2.20	0.42
1:2A:490:G:H4'	29:27:16:HIS:ND1	2.35	0.42
1:2A:788:G:C4'	1:2A:1722:A:H5'	2.50	0.42
1:2A:899:G:H1	1:2A:969:C:N4	2.15	0.42
1:2A:1102:A:N6	1:2A:1131:A:C2	2.88	0.42
1:2A:1135:U:O4	1:2A:1147:C:C2	2.73	0.42
1:2A:1531:A:H2'	1:2A:1532:G:H8	1.84	0.42
1:2A:1865:G:H1'	1:2A:1952:U:O2	2.20	0.42
1:2A:2127:G:C3'	1:2A:2128:C:H4'	2.49	0.42
1:2A:2177:G:N7	1:2A:2178:G:N2	2.67	0.42
1:2A:2359:U:O2'	1:2A:2360:G:H5'	2.20	0.42
1:2A:2363:A:H2	22:20:33:ALA:CB	2.33	0.42
1:2A:2586:C:H5'	4:2E:143:ASN:O	2.19	0.42
1:2A:2628:C:H2'	1:2A:2629:G:H5'	2.02	0.42
1:2A:2797:C:O2'	1:2A:2798:U:H5'	2.19	0.42
2:2B:104:U:C2'	2:2B:105:A:H5'	2.50	0.42
3:2D:218:ARG:HB3	3:2D:219:PRO:CD	2.42	0.42
3:2D:246:PRO:HG2	3:2D:255:LYS:HG3	2.02	0.42
4:2E:34:VAL:HG23	4:2E:48:GLN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:53:PRO:O	4:2E:76:ARG:HG3	2.20	0.42
7:2H:149:ARG:HA	7:2H:162:ILE:HG21	2.01	0.42
8:2I:75:LEU:HD21	8:2I:105:HIS:HE1	1.79	0.42
11:2P:90:ARG:HG2	11:2P:91:PHE:CD1	2.55	0.42
13:2R:36:THR:HG22	13:2R:40:LYS:HB2	2.02	0.42
13:2R:55:ALA:CB	13:2R:84:ALA:HB2	2.47	0.42
14:2S:47:THR:HG22	14:2S:48:LEU:N	2.35	0.42
14:2S:66:ALA:C	14:2S:69:VAL:HG22	2.43	0.42
14:2S:85:VAL:HG22	14:2S:86:ALA:H	1.83	0.42
27:25:4:HIS:O	27:25:6:VAL:HG23	2.20	0.42
27:25:32:PRO:HA	27:25:38:ALA:O	2.20	0.42
28:26:11:LEU:HD12	28:26:21:TYR:HB2	2.01	0.42
32:2a:255:G:H8	32:2a:255:G:O5'	2.03	0.42
32:2a:508:G:H2'	32:2a:509:C:H6	1.82	0.42
32:2a:546:C:H1'	43:2l:15:ARG:HB3	2.02	0.42
32:2a:669:G:H4'	42:2k:40:ILE:O	2.20	0.42
32:2a:772:U:C2'	32:2a:773:U:H5'	2.50	0.42
32:2a:926:C:C4'	32:2a:1288:A:H4'	2.50	0.42
32:2a:1135:A:C2'	32:2a:1136:C:H5'	2.50	0.42
32:2a:1385:4OC:H6	32:2a:1385:4OC:O5'	2.20	0.42
32:2a:1451:A:H2'	32:2a:1452:G:O4'	2.20	0.42
33:2b:71:VAL:HA	33:2b:93:VAL:CG2	2.50	0.42
33:2b:87:ARG:HG2	33:2b:87:ARG:O	2.20	0.42
34:2c:44:GLU:O	34:2c:45:LYS:HG3	2.19	0.42
34:2c:56:ASP:HB2	34:2c:67:THR:HB	2.02	0.42
36:2e:20:GLN:NE2	36:2e:25:ARG:CZ	2.83	0.42
36:2e:89:ILE:HG13	36:2e:90:VAL:N	2.35	0.42
42:2k:83:ILE:HG12	42:2k:109:VAL:HG13	1.99	0.42
44:2m:49:THR:O	44:2m:53:VAL:N	2.31	0.42
47:2p:8:ARG:HA	47:2p:17:TYR:CD1	2.55	0.42
49:2r:31:LEU:CD2	49:2r:62:GLU:HB2	2.49	0.42
1:1A:240:G:P	11:1P:50:ARG:HH12	2.43	0.41
1:1A:623:C:O2	1:1A:627:C:H4'	2.20	0.41
1:1A:911:C:H4'	1:1A:912:A:N7	2.34	0.41
1:1A:1254:A:H5"	1:1A:1256:G:C4'	2.50	0.41
1:1A:1457:A:H2'	1:1A:1458:G:H8	1.83	0.41
1:1A:2168:G:H5"	1:1A:2169:G:OP2	2.20	0.41
1:1A:2323:U:C5'	6:1G:88:ILE:HD11	2.48	0.41
1:1A:2613:A:H1'	1:1A:2614:G:C5'	2.47	0.41
1:1A:2634:G:OP1	1:1A:2835:A:H1'	2.19	0.41
1:1A:2786:C:H2'	1:1A:2787:A:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1B:20:C:H2'	2:1B:21:G:O4'	2.20	0.41
2:1B:54:G:O2'	2:1B:55:U:H5'	2.20	0.41
3:1D:63:ARG:O	3:1D:65:ILE:HG12	2.20	0.41
4:1E:147:PRO:HB2	4:1E:149:ARG:HG2	2.01	0.41
5:1F:13:SER:OG	5:1F:14:PRO:HD2	2.20	0.41
6:1G:110:ALA:O	6:1G:111:LEU:C	2.62	0.41
8:1I:100:ALA:O	8:1I:104:GLN:N	2.53	0.41
10:1O:105:GLU:O	10:1O:108:GLU:HB2	2.20	0.41
12:1Q:50:ALA:O	12:1Q:53:ALA:HB3	2.20	0.41
16:1U:32:PHE:O	16:1U:35:ALA:HB3	2.19	0.41
18:1W:69:LEU:HA	18:1W:108:GLY:O	2.20	0.41
21:1Z:183:LEU:O	21:1Z:184:ALA:C	2.62	0.41
28:16:9:LEU:HD22	28:16:51:GLU:CD	2.45	0.41
30:18:7:HIS:HB3	30:18:61:LEU:HB3	2.02	0.41
32:1a:139:G:H2'	32:1a:140:G:O4'	2.19	0.41
32:1a:214:C:H2'	32:1a:215:C:H5'	1.99	0.41
32:1a:708:G:H21	32:1a:709:G:H1'	1.85	0.41
32:1a:735:U:H2'	32:1a:736:G:H5'	2.02	0.41
32:1a:841:U:H2'	32:1a:843:A:OP2	2.20	0.41
32:1a:860:C:H42	43:1l:5:PRO:HB3	1.84	0.41
32:1a:933:U:H2'	32:1a:934:U:H6	1.80	0.41
32:1a:942:A:H2	32:1a:948:C:H5'	1.85	0.41
32:1a:1042:C:O2'	41:1j:53:PRO:HD3	2.19	0.41
32:1a:1150:A:H2'	32:1a:1151:A:O4'	2.20	0.41
32:1a:1227:A:O2'	32:1a:1228:C:H5'	2.20	0.41
32:1a:1287:G:H22	32:1a:1313:G:H1'	1.79	0.41
32:1a:1309:C:H5"	52:1u:20:LYS:HB2	2.02	0.41
32:1a:1434:G:H22	51:1t:51:GLU:CD	2.28	0.41
32:1a:1505:C:C2'	32:1a:1506:U:H5'	2.49	0.41
34:1c:3:ASN:OD1	34:1c:4:LYS:N	2.44	0.41
34:1c:128:PHE:HB3	34:1c:129:ALA:H	1.72	0.41
39:1h:61:VAL:O	39:1h:63:LEU:HD12	2.20	0.41
40:1i:43:ALA:O	40:1i:45:ALA:N	2.53	0.41
41:1j:33:GLN:O	41:1j:75:ILE:N	2.53	0.41
43:1l:55:VAL:HG12	43:1l:56:ALA:N	2.35	0.41
44:1m:107:ALA:C	44:1m:109:THR:H	2.28	0.41
51:1t:13:LEU:O	51:1t:17:ARG:HG3	2.19	0.41
1:2A:94:G:H4'	24:22:48:HIS:CD2	2.55	0.41
1:2A:540:C:O2'	1:2A:1307:A:H4'	2.20	0.41
1:2A:675:G:O2'	1:2A:676:C:H5'	2.20	0.41
1:2A:1019:C:H4'	1:2A:1020:G:H5"	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1036:C:O2'	1:2A:1037:C:H5'	2.20	0.41
1:2A:1086:C:H42	1:2A:1159:G:H1	1.68	0.41
1:2A:1104:G:OP2	1:2A:1105:U:H3'	2.20	0.41
1:2A:1168:C:H2'	1:2A:1169:C:C6	2.55	0.41
1:2A:1198:C:OP1	16:2U:76:TYR:OH	2.27	0.41
1:2A:1209:G:H2'	1:2A:1210:U:O4'	2.20	0.41
1:2A:1732:C:C2'	1:2A:1733:G:H5'	2.50	0.41
1:2A:1796:U:H2'	1:2A:1797:C:H6	1.84	0.41
1:2A:2169:G:C2'	1:2A:2170:G:H5'	2.50	0.41
1:2A:2544:A:C2'	1:2A:2545:A:H5'	2.49	0.41
1:2A:2818:A:OP2	1:2A:2899:G:N1	2.35	0.41
2:2B:43:C:H1'	6:2G:93:THR:O	2.20	0.41
4:2E:27:LEU:HD12	4:2E:180:ASN:O	2.20	0.41
4:2E:102:VAL:HA	4:2E:201:THR:H	1.85	0.41
7:2H:86:GLU:OE2	7:2H:132:ARG:NH2	2.53	0.41
12:2Q:8:LYS:O	21:2Z:196:VAL:HG13	2.21	0.41
12:2Q:61:GLY:HA2	21:2Z:177:PRO:CB	2.50	0.41
16:2U:101:ARG:HD2	17:2V:13:ARG:NH1	2.35	0.41
18:2W:17:VAL:O	18:2W:20:VAL:HB	2.20	0.41
21:2Z:4:ARG:HH22	21:2Z:66:SER:HB3	1.82	0.41
21:2Z:77:ASP:O	21:2Z:78:LYS:C	2.62	0.41
32:2a:349:A:H2'	32:2a:350:G:OP2	2.19	0.41
32:2a:354:U:O2'	32:2a:355:U:H5'	2.20	0.41
32:2a:609:G:H5'	47:2p:10:GLY:HA2	2.00	0.41
32:2a:944:M2G:O2'	32:2a:945:5MC:H5'	2.20	0.41
32:2a:1100:G:H4'	40:2i:104:ARG:NH1	2.35	0.41
32:2a:1105:U:H2'	32:2a:1106:A:C5'	2.50	0.41
32:2a:1411:A:H2'	32:2a:1412:C:O4'	2.20	0.41
32:2a:1462:C:H2'	32:2a:1463:U:H5'	2.01	0.41
32:2a:1484:U:O2'	32:2a:1485:A:H5'	2.19	0.41
32:2a:1495:G:O6	32:2a:1496:MA6:H103	2.19	0.41
33:2b:88:ALA:HB2	33:2b:219:VAL:HG13	2.01	0.41
34:2c:6:HIS:CD2	34:2c:9:GLY:H	2.31	0.41
35:2d:141:ARG:HB2	35:2d:144:ASP:OD2	2.19	0.41
37:2f:67:MET:HB2	37:2f:68:PRO:HD2	2.02	0.41
38:2g:62:PHE:CD1	38:2g:66:VAL:HG23	2.54	0.41
42:2k:98:LEU:O	42:2k:101:SER:OG	2.15	0.41
43:2l:24:VAL:N	43:2l:25:PRO:HD3	2.34	0.41
47:2p:4:ILE:HD11	47:2p:64:ALA:HB3	2.01	0.41
49:2r:42:ARG:C	49:2r:44:LEU:H	2.25	0.41
50:2s:36:ARG:HG2	50:2s:51:VAL:CG1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:33:C:O2'	1:1A:34:G:O4'	2.37	0.41
1:1A:75:C:O2'	1:1A:76:A:H5'	2.19	0.41
1:1A:441:A:H2'	1:1A:442:C:H6	1.85	0.41
1:1A:617:C:H42	1:1A:708:G:H1	1.66	0.41
1:1A:663:U:H2'	1:1A:664:C:H6	1.82	0.41
1:1A:667:A:C8	28:16:44:ARG:NH1	2.88	0.41
1:1A:697:G:H2'	1:1A:697:G:N3	2.33	0.41
1:1A:732:G:H21	1:1A:834:A:H61	1.68	0.41
1:1A:984:G:H2'	1:1A:985:A:O4'	2.20	0.41
1:1A:1033:A:OP2	25:13:11:SER:HB3	2.20	0.41
1:1A:1828:U:OP2	3:1D:274:ARG:NH2	2.53	0.41
1:1A:2082:G:OP1	5:1F:68:LYS:NZ	2.49	0.41
1:1A:2167:C:OP2	1:1A:2167:C:H6	2.02	0.41
1:1A:2355:U:OP1	28:16:37:ARG:HD3	2.20	0.41
1:1A:2477:C:C2'	1:1A:2478:C:H5'	2.50	0.41
59:1A:4287:HOH:O	19:1X:44:GLU:OE2	2.21	0.41
2:1B:111:G:H2'	2:1B:112:U:H6	1.84	0.41
3:1D:111:LEU:HD23	3:1D:115:GLN:NE2	2.35	0.41
3:1D:131:LEU:O	3:1D:190:TYR:HA	2.21	0.41
4:1E:75:VAL:HG22	4:1E:76:ARG:H	1.84	0.41
7:1H:40:GLU:CD	7:1H:60:ARG:HH12	2.27	0.41
11:1P:65:ARG:HB3	55:18:104:MPD:O2	2.19	0.41
13:1R:113:LEU:HD12	13:1R:113:LEU:C	2.45	0.41
14:1S:95:HIS:N	14:1S:99:LYS:HB2	2.35	0.41
16:1U:52:ARG:HG2	16:1U:56:ASP:OD2	2.21	0.41
19:1X:3:THR:O	19:1X:6:ASP:N	2.38	0.41
20:1Y:14:LEU:N	20:1Y:73:ARG:O	2.32	0.41
20:1Y:42:VAL:HG12	20:1Y:43:ASN:N	2.35	0.41
21:1Z:150:LEU:HD11	21:1Z:154:ASP:CB	2.51	0.41
32:1a:19:C:OP1	36:1e:127:ASN:ND2	2.52	0.41
32:1a:199:U:C2'	32:1a:200:C:H5'	2.50	0.41
32:1a:993:A:H8	32:1a:993:A:P	2.43	0.41
32:1a:1024:A:C2'	32:1a:1025:G:O5'	2.68	0.41
32:1a:1087:G:OP1	33:1b:111:ARG:HD3	2.20	0.41
32:1a:1138:G:O2'	32:1a:1139:G:H5'	2.19	0.41
32:1a:1169:G:H5"	32:1a:1170:A:OP2	2.20	0.41
35:1d:25:ARG:O	35:1d:28:SER:N	2.52	0.41
35:1d:173:TRP:CE2	35:1d:189:PRO:HG3	2.55	0.41
37:1f:89:MET:SD	49:1r:76:LEU:HD11	2.60	0.41
38:1g:47:CYS:HA	38:1g:50:ILE:CG1	2.50	0.41
42:1k:20:TYR:HD1	42:1k:20:TYR:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:1t:66:ALA:HB1	51:1t:71:THR:HB	2.02	0.41
1:2A:51:A:C2'	1:2A:52:G:H5'	2.48	0.41
1:2A:523:U:C5'	20:2Y:46:LYS:HD2	2.51	0.41
1:2A:717:C:H2'	1:2A:718:C:H6	1.84	0.41
1:2A:798:A:H1'	1:2A:799:C:OP2	2.20	0.41
1:2A:1700:A:OP1	13:2R:2:ARG:HB2	2.19	0.41
1:2A:2062:U:H2'	1:2A:2063:A:H5'	2.01	0.41
1:2A:2155:A:C8	1:2A:2178:G:H4'	2.55	0.41
1:2A:2436:A:H4'	1:2A:2437:A:H5"	2.02	0.41
1:2A:2656:G:C3'	1:2A:2657:C:H5'	2.50	0.41
1:2A:2887:U:O5'	1:2A:2887:U:H6	2.03	0.41
4:2E:52:LEU:HD23	4:2E:52:LEU:HA	1.71	0.41
5:2F:54:ARG:N	5:2F:87:GLY:HA3	2.34	0.41
5:2F:136:THR:O	5:2F:139:PHE:HB3	2.20	0.41
6:2G:77:ILE:HB	6:2G:80:PHE:O	2.20	0.41
10:2O:80:ASP:CG	15:2T:64:ARG:HH22	2.28	0.41
11:2P:90:ARG:HG2	11:2P:91:PHE:CE1	2.54	0.41
11:2P:148:LEU:C	11:2P:148:LEU:HD12	2.45	0.41
14:2S:21:THR:C	14:2S:23:ARG:N	2.77	0.41
16:2U:79:PHE:CZ	16:2U:83:LEU:HD11	2.55	0.41
21:2Z:124:ILE:O	21:2Z:124:ILE:HG23	2.20	0.41
22:20:53:MET:CG	22:20:57:PHE:HA	2.50	0.41
24:22:17:SER:OG	24:22:18:PRO:HD2	2.20	0.41
26:24:14:ILE:HG23	26:24:31:ILE:HB	2.02	0.41
30:28:63:PRO:HG2	30:28:64:TYR:CD2	2.55	0.41
32:2a:107:G:H21	32:2a:349:A:C1'	2.33	0.41
32:2a:274:G:N1	48:2q:95:TYR:HD2	2.18	0.41
32:2a:626:A:N7	39:2h:115:SER:HA	2.35	0.41
32:2a:671:A:C4'	32:2a:672:G:O5'	2.68	0.41
32:2a:720:C:H5"	49:2r:72:ARG:HH21	1.85	0.41
32:2a:910:C:H4'	38:2g:4:ARG:HH21	1.83	0.41
32:2a:1040:G:H2'	32:2a:1041:G:H5'	2.01	0.41
32:2a:1044:G:O4'	41:2j:56:HIS:CD2	2.74	0.41
32:2a:1166:G:H2'	32:2a:1167:G:H8	1.86	0.41
33:2b:24:TRP:CZ3	33:2b:29:ALA:HB2	2.55	0.41
35:2d:79:PHE:CE1	35:2d:204:ILE:HD13	2.55	0.41
35:2d:92:VAL:HG12	35:2d:96:LEU:HD11	2.00	0.41
35:2d:99:SER:CB	35:2d:139:ARG:HG3	2.46	0.41
35:2d:173:TRP:HZ3	35:2d:193:ASP:HB3	1.84	0.41
38:2g:72:ARG:O	38:2g:73:MET:HG2	2.20	0.41
38:2g:111:ARG:HE	38:2g:122:HIS:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:2g:138:LYS:HA	38:2g:141:VAL:HB	2.02	0.41
39:2h:123:GLU:O	39:2h:127:LEU:HD13	2.20	0.41
40:2i:56:LEU:H	40:2i:56:LEU:HD12	1.86	0.41
40:2i:75:ASP:O	40:2i:76:ALA:C	2.63	0.41
40:2i:97:LYS:N	40:2i:98:PRO:CD	2.82	0.41
41:2j:26:ALA:O	41:2j:29:ARG:HB2	2.20	0.41
48:2q:55:ASP:OD1	48:2q:79:SER:OG	2.30	0.41
49:2r:22:VAL:CG1	49:2r:43:PHE:CE1	3.04	0.41
49:2r:73:ALA:O	49:2r:74:ARG:C	2.63	0.41
50:2s:40:ILE:HD13	50:2s:69:HIS:HB2	2.02	0.41
1:1A:185:A:O2'	1:1A:2255:U:OP1	2.28	0.41
1:1A:208:G:H2'	1:1A:453:U:O4	2.21	0.41
1:1A:448:A:OP2	59:1A:4315:HOH:O	2.22	0.41
1:1A:618:G:C2'	1:1A:619:U:H5'	2.50	0.41
1:1A:722:A:H1'	1:1A:2454:C:C1'	2.50	0.41
1:1A:892:C:N4	1:1A:975:G:H1	2.18	0.41
1:1A:1039:C:H5"	1:1A:1040:C:P	2.59	0.41
1:1A:1052:C:H5"	9:1N:35:ARG:HH11	1.86	0.41
1:1A:1413:G:C2'	1:1A:1414:G:H5'	2.50	0.41
1:1A:1657:C:O2'	29:17:5:TRP:O	2.23	0.41
1:1A:2041:A:H4'	16:1U:25:TRP:CZ3	2.55	0.41
1:1A:2630:C:O2'	4:1E:154:LYS:HB3	2.21	0.41
1:1A:2857:G:H1'	1:1A:2876:G:N2	2.36	0.41
3:1D:70:TRP:CB	3:1D:190:TYR:CE2	2.96	0.41
4:1E:8:LYS:HE3	4:1E:24:THR:HG21	2.02	0.41
4:1E:60:ASN:O	4:1E:64:LYS:HG3	2.20	0.41
4:1E:75:VAL:HG22	4:1E:76:ARG:N	2.36	0.41
9:1N:12:ARG:CG	9:1N:50:ASP:OD1	2.68	0.41
12:1Q:6:ARG:HA	21:1Z:195:GLU:O	2.20	0.41
13:1R:104:ARG:O	13:1R:108:GLY:HA2	2.20	0.41
14:1S:27:SER:HA	14:1S:88:ASP:HB3	2.02	0.41
18:1W:65:LEU:C	18:1W:67:ASP:N	2.77	0.41
32:1a:51:A:OP1	32:1a:51:A:H8	2.03	0.41
32:1a:78:G:C2	32:1a:86:U:C2	3.08	0.41
32:1a:218:U:H2'	32:1a:219:U:O4'	2.20	0.41
32:1a:414:C:H1'	32:1a:524:G:O2'	2.20	0.41
32:1a:436:A:H3'	32:1a:437:C:H5	1.80	0.41
32:1a:542:G:C8	32:1a:543:A:H2'	2.54	0.41
32:1a:642:G:OP1	46:1o:8:LYS:NZ	2.50	0.41
32:1a:708:G:C2'	32:1a:709:G:H5'	2.51	0.41
32:1a:822:G:H1	32:1a:826:C:N4	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:839:G:H8	32:1a:839:G:O5'	2.04	0.41
32:1a:1006:C:C2'	32:1a:1007:C:C6	3.01	0.41
32:1a:1508:G:H2'	32:1a:1509:A:C8	2.55	0.41
36:1e:86:ALA:CB	36:1e:125:SER:HB3	2.51	0.41
38:1g:71:PRO:HA	38:1g:138:LYS:HZ2	1.85	0.41
40:1i:49:PRO:CD	40:1i:81:ILE:HD11	2.50	0.41
42:1k:29:ILE:HA	42:1k:44:SER:CB	2.51	0.41
46:1o:6:GLU:O	46:1o:9:GLN:N	2.53	0.41
49:1r:45:SER:C	49:1r:47:THR:N	2.78	0.41
1:2A:64:C:O2'	1:2A:65:U:H5'	2.21	0.41
1:2A:539:A:H1'	1:2A:603:C:H1'	2.01	0.41
1:2A:672:G:C1'	1:2A:2362:G:H5"	2.51	0.41
1:2A:816:G:OP1	29:27:8:ASN:ND2	2.38	0.41
1:2A:1137:C:N3	1:2A:1138:G:C6	2.88	0.41
1:2A:1207:G:O3'	17:2V:24:LYS:HE2	2.20	0.41
1:2A:1349:C:C2'	1:2A:1350:C:H5'	2.51	0.41
1:2A:1410:A:O4'	23:21:41:ARG:NH2	2.53	0.41
1:2A:1445:G:H2'	1:2A:1446:G:O4'	2.20	0.41
1:2A:1571:G:H2'	1:2A:1572:G:O4'	2.19	0.41
1:2A:1670:C:H2'	1:2A:1671:G:C5'	2.50	0.41
1:2A:2207:G:C2	1:2A:2208:G:C5	3.08	0.41
1:2A:2385:C:H2'	1:2A:2386:G:H5'	2.01	0.41
1:2A:2548:U:H2'	1:2A:2549:C:O4'	2.20	0.41
1:2A:2871:G:C2'	1:2A:2872:C:H5'	2.50	0.41
2:2B:117:G:H8	2:2B:117:G:O5'	2.02	0.41
3:2D:61:LEU:O	3:2D:63:ARG:NH1	2.51	0.41
3:2D:95:LEU:HD11	3:2D:105:ILE:CD1	2.36	0.41
4:2E:104:VAL:HB	4:2E:167:VAL:CG1	2.50	0.41
5:2F:78:ILE:HA	5:2F:83:PHE:CD2	2.55	0.41
6:2G:32:PRO:HG2	6:2G:168:GLU:O	2.20	0.41
12:2Q:13:GLN:O	12:2Q:72:LYS:NZ	2.51	0.41
13:2R:44:LEU:HD21	13:2R:48:VAL:HG21	2.02	0.41
14:2S:10:ARG:HE	14:2S:91:PRO:HA	1.85	0.41
15:2T:12:SER:HA	15:2T:15:VAL:CG2	2.50	0.41
15:2T:102:ILE:HA	15:2T:105:LEU:CD1	2.44	0.41
17:2V:21:ARG:NE	17:2V:91:TYR:CE2	2.88	0.41
20:2Y:55:TYR:CE1	20:2Y:61:ILE:HG21	2.55	0.41
27:25:52:TYR:HB3	27:25:57:VAL:HG21	2.02	0.41
32:2a:283:U:C2'	32:2a:284:A:H5'	2.50	0.41
32:2a:336:U:H2'	32:2a:337:C:C6	2.55	0.41
32:2a:419:G:C2'	32:2a:420:G:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:482:U:O2'	32:2a:483:A:H5'	2.20	0.41
32:2a:490:G:H1	32:2a:509:C:N4	2.16	0.41
32:2a:668:A:N3	42:2k:39:PRO:HG2	2.34	0.41
32:2a:725:G:C5'	46:2o:39:LEU:HD12	2.50	0.41
32:2a:845:G:O2'	32:2a:851:A:N1	2.49	0.41
32:2a:971:G:H1	32:2a:1028:C:N4	2.07	0.41
32:2a:1157:G:H2'	32:2a:1158:A:C8	2.54	0.41
32:2a:1214:U:H5"	40:2i:124:GLN:O	2.20	0.41
32:2a:1244:C:H42	32:2a:1255:G:H1	1.67	0.41
32:2a:1300:A:O2'	50:2s:37:ARG:CG	2.68	0.41
32:2a:1384:G:C2	32:2a:1385:4OC:H1'	2.56	0.41
32:2a:1385:4OC:CM2	32:2a:1386:C:H5'	2.49	0.41
32:2a:1486:G:H1	32:2a:1505:C:N4	2.07	0.41
35:2d:153:ARG:C	35:2d:155:LEU:H	2.28	0.41
36:2e:24:ARG:CG	36:2e:26:PHE:CE1	2.93	0.41
37:2f:4:TYR:HD1	37:2f:4:TYR:N	2.18	0.41
42:2k:97:ALA:O	42:2k:101:SER:N	2.53	0.41
44:2m:25:ILE:HD12	44:2m:29:ARG:CG	2.48	0.41
1:1A:332:G:H21	1:1A:353:A:P	2.42	0.41
1:1A:708:G:H4'	11:1P:15:ARG:O	2.20	0.41
1:1A:1000:G:N2	1:1A:1004:A:OP2	2.53	0.41
1:1A:1240:C:H2'	1:1A:1241:G:O4'	2.20	0.41
1:1A:1319:A:H1'	1:1A:1342:C:H4'	2.02	0.41
1:1A:1487:G:O2'	1:1A:1488:G:H5'	2.20	0.41
1:1A:1688:G:O2'	1:1A:1689:G:H5'	2.20	0.41
1:1A:2119:U:O5'	1:1A:2119:U:H6	2.03	0.41
1:1A:2189:G:O5'	1:1A:2189:G:H8	2.04	0.41
1:1A:2746:A:H62	1:1A:2782:G:H21	1.67	0.41
3:1D:51:VAL:CG1	3:1D:54:ARG:HE	2.25	0.41
4:1E:128:SER:OG	4:1E:129:HIS:N	2.53	0.41
6:1G:11:TYR:HD2	6:1G:12:TYR:CE1	2.38	0.41
6:1G:143:GLU:HA	26:14:28:LYS:NZ	2.36	0.41
7:1H:42:ARG:O	7:1H:52:VAL:HA	2.20	0.41
10:1O:60:ALA:HA	10:1O:87:ILE:HG12	2.01	0.41
11:1P:33:ARG:CD	11:1P:40:SER:HA	2.50	0.41
12:1Q:115:MET:SD	12:1Q:131:ILE:HG21	2.60	0.41
14:1S:29:PHE:O	14:1S:35:ILE:HG13	2.20	0.41
14:1S:77:ALA:HB3	14:1S:110:LEU:HD11	2.01	0.41
15:1T:118:ARG:O	15:1T:121:ILE:HB	2.19	0.41
18:1W:12:ILE:HD13	18:1W:17:VAL:HG12	2.02	0.41
21:1Z:108:PRO:HA	21:1Z:141:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:12:29:LYS:HG2	24:12:57:ILE:HD13	2.03	0.41
26:14:20:ASN:HD22	26:14:36:CYS:HB2	1.85	0.41
32:1a:232:G:H2'	32:1a:233:C:C6	2.55	0.41
32:1a:324:C:H4'	32:1a:325:A:H5'	2.03	0.41
32:1a:463:A:O2'	32:1a:464:C:H5'	2.20	0.41
32:1a:510:C:OP2	43:1l:91:LYS:HE3	2.20	0.41
32:1a:752:A:H2'	32:1a:753:G:H5'	2.01	0.41
32:1a:773:U:O2	32:1a:776:A:H8	2.03	0.41
32:1a:1067:G:OP1	32:1a:1069:U:N3	2.53	0.41
32:1a:1124:C:O2'	32:1a:1125:G:H5'	2.21	0.41
32:1a:1263:U:C2'	32:1a:1264:C:H6	2.33	0.41
32:1a:1340:U:OP2	32:1a:1341:C:N4	2.46	0.41
32:1a:1497:MA6:N7	32:1a:1498:G:H1'	2.35	0.41
33:1b:74:LYS:HE3	33:1b:166:ASP:CB	2.50	0.41
33:1b:207:ALA:O	33:1b:208:ILE:C	2.62	0.41
34:1c:113:ALA:HA	34:1c:202:ILE:CD1	2.51	0.41
34:1c:138:VAL:HG11	34:1c:170:GLN:CB	2.50	0.41
36:1e:43:LEU:CD2	36:1e:132:ALA:HB1	2.50	0.41
36:1e:46:GLY:N	36:1e:58:ALA:HB2	2.35	0.41
37:1f:30:LEU:HD11	37:1f:63:TYR:CD2	2.54	0.41
39:1h:95:VAL:HG22	39:1h:131:GLY:O	2.21	0.41
50:1s:14:HIS:ND1	50:1s:15:LEU:N	2.69	0.41
51:1t:49:ALA:HB1	51:1t:98:PRO:HA	2.02	0.41
1:2A:174:G:O2'	1:2A:175:G:H5'	2.20	0.41
1:2A:184:A:N3	1:2A:184:A:C2'	2.83	0.41
1:2A:239:A:C5	1:2A:240:G:H1'	2.55	0.41
1:2A:593:A:O2'	17:2V:78:LYS:HE2	2.19	0.41
1:2A:773:A:C2	3:2D:9:TYR:CE2	3.08	0.41
1:2A:961:G:H2'	1:2A:962:A:H5"	2.02	0.41
1:2A:1027:C:H6	1:2A:1027:C:O5'	2.04	0.41
1:2A:1107:G:H2'	1:2A:1108:G:C8	2.52	0.41
1:2A:1182:G:H21	9:2N:106:MET:CG	2.34	0.41
1:2A:1336:C:C2'	1:2A:1337:U:H5'	2.50	0.41
1:2A:1714:A:H4'	1:2A:1715:A:O5'	2.20	0.41
1:2A:1826:U:O3'	3:2D:256:GLY:HA2	2.21	0.41
1:2A:1830:C:OP1	3:2D:264:LYS:NZ	2.51	0.41
1:2A:2040:A:O5'	1:2A:2040:A:H8	2.04	0.41
1:2A:2652:G:H5"	9:2N:76:SER:HB3	2.02	0.41
1:2A:2694:C:O2	10:2O:70:LYS:NZ	2.48	0.41
2:2B:86:G:H2'	2:2B:87:G:C8	2.55	0.41
2:2B:104:U:HO2'	21:2Z:72:ARG:HG2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:33:LEU:HD11	3:2D:102:LYS:C	2.45	0.41
3:2D:68:LYS:O	3:2D:70:TRP:N	2.52	0.41
5:2F:40:GLN:HA	5:2F:43:LYS:HE3	2.01	0.41
11:2P:133:SER:O	11:2P:137:LYS:HG3	2.20	0.41
13:2R:76:VAL:O	13:2R:79:LEU:HB3	2.20	0.41
16:2U:27:LEU:C	16:2U:29:SER:H	2.28	0.41
17:2V:11:GLN:C	17:2V:12:TYR:CD1	2.90	0.41
19:2X:65:ARG:HD3	19:2X:70:LEU:HD23	2.01	0.41
22:20:10:THR:HG22	22:20:12:ASN:H	1.84	0.41
31:29:19:ARG:HG2	31:29:20:HIS:ND1	2.35	0.41
32:2a:189:U:O2'	32:2a:190:U:H5'	2.19	0.41
32:2a:308:C:C2'	32:2a:309:A:H5'	2.50	0.41
32:2a:1002:G:H3'	32:2a:1003:G:H8	1.85	0.41
32:2a:1054:C:H2'	32:2a:1055:G:H8	1.85	0.41
32:2a:1334:C:OP1	52:2u:3:LYS:CE	2.68	0.41
35:2d:68:TYR:CD1	35:2d:68:TYR:N	2.88	0.41
36:2e:17:ALA:HA	36:2e:26:PHE:HA	2.03	0.41
36:2e:148:VAL:CG1	36:2e:152:ARG:NH1	2.84	0.41
42:2k:29:ILE:HA	42:2k:44:SER:CB	2.51	0.41
43:2l:24:VAL:O	43:2l:24:VAL:HG23	2.20	0.41
43:2l:56:ALA:HB2	43:2l:70:ILE:HD11	2.01	0.41
46:2o:37:ASN:O	46:2o:40:SER:HB3	2.21	0.41
1:1A:152:C:C2'	1:1A:153:G:H5'	2.50	0.41
1:1A:307:U:C2'	1:1A:308:C:H5'	2.50	0.41
1:1A:652:G:H1	1:1A:659:C:H42	1.68	0.41
1:1A:1100:G:N3	1:1A:1130:A:H2	2.18	0.41
1:1A:1272:G:C2'	1:1A:1273:G:H5'	2.50	0.41
1:1A:1536:G:O2'	3:1D:101:GLU:HB2	2.20	0.41
1:1A:2084:C:H5"	59:1A:4197:HOH:O	2.20	0.41
1:1A:2189:G:C4	1:1A:2191:A:OP2	2.74	0.41
1:1A:2200:C:H2'	1:1A:2201:U:C6	2.54	0.41
1:1A:2639:C:H5"	1:1A:2640:A:O5'	2.21	0.41
1:1A:2727:C:C2'	1:1A:2728:U:H5'	2.51	0.41
1:1A:2781:C:C2'	1:1A:2782:G:H5'	2.51	0.41
4:1E:81:ILE:O	4:1E:84:PHE:HB3	2.20	0.41
6:1G:120:LEU:HD12	6:1G:178:PHE:HB3	2.03	0.41
11:1P:18:ARG:HH21	11:1P:21:ARG:HE	1.68	0.41
13:1R:101:ALA:HB2	27:15:44:THR:OG1	2.20	0.41
19:1X:69:TYR:HD1	19:1X:69:TYR:N	2.18	0.41
20:1Y:46:LYS:HE3	20:1Y:60:PHE:HD2	1.85	0.41
20:1Y:88:LYS:O	20:1Y:95:LYS:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:132:ASN:HD21	21:1Z:160:GLY:HA3	1.84	0.41
25:13:54:VAL:HG12	25:13:55:ARG:N	2.35	0.41
26:14:58:ARG:HB3	50:1s:67:VAL:HB	2.03	0.41
28:16:23:THR:OG1	28:16:24:GLU:N	2.54	0.41
30:18:22:VAL:HG23	30:18:55:ALA:HB1	2.03	0.41
32:1a:172:C:OP1	51:1t:65:LYS:HE2	2.20	0.41
32:1a:260:U:H2'	32:1a:261:G:H5'	2.02	0.41
32:1a:494:A:O2'	32:1a:526:G:O2'	2.28	0.41
32:1a:694:G:O3'	37:1f:54:LYS:NZ	2.51	0.41
32:1a:752:A:C2'	32:1a:753:G:H5'	2.51	0.41
32:1a:874:C:O2'	32:1a:875:C:H5'	2.21	0.41
32:1a:971:G:H2'	32:1a:971:G:N3	2.36	0.41
32:1a:1052:C:H2'	32:1a:1053:U:O5'	2.20	0.41
32:1a:1126:G:H2'	32:1a:1127:G:O4'	2.21	0.41
32:1a:1216:C:H2'	32:1a:1217:U:O4'	2.21	0.41
32:1a:1291:G:O6	32:1a:1310:C:N3	2.54	0.41
32:1a:1308:C:H5"	52:1u:12:LYS:HZ1	1.85	0.41
32:1a:1348:G:H2'	32:1a:1349:C:H5'	2.02	0.41
33:1b:207:ALA:O	33:1b:211:ILE:N	2.44	0.41
35:1d:17:VAL:CG1	35:1d:18:LYS:N	2.83	0.41
38:1g:27:ILE:CD1	38:1g:43:PHE:CB	2.98	0.41
40:1i:26:VAL:HG11	40:1i:33:PHE:HD1	1.83	0.41
40:1i:65:VAL:HG21	40:1i:73:GLN:CB	2.40	0.41
42:1k:46:GLY:HA2	42:1k:50:TYR:O	2.21	0.41
42:1k:91:ARG:O	42:1k:94:ALA:HB3	2.20	0.41
42:1k:125:PHE:N	42:1k:125:PHE:CD1	2.89	0.41
50:1s:36:ARG:HA	50:1s:71:LEU:HB2	2.02	0.41
1:2A:413:U:O3'	59:2A:3866:HOH:O	2.22	0.41
1:2A:470:C:O2'	1:2A:471:G:H5'	2.21	0.41
1:2A:845:G:OP2	1:2A:846:A:O2'	2.20	0.41
1:2A:939:C:H2'	1:2A:940:U:C6	2.56	0.41
1:2A:1066:A:H61	1:2A:1187:A:N6	2.19	0.41
1:2A:1109:C:H3'	1:2A:1110:U:H5"	1.95	0.41
1:2A:1337:U:O2'	1:2A:1338:C:H5'	2.21	0.41
1:2A:1823:C:O2	1:2A:1921:A:H2	2.04	0.41
1:2A:1830:C:OP2	3:2D:266:SER:HB2	2.20	0.41
1:2A:1886:G:C2'	1:2A:1887:G:H5'	2.50	0.41
1:2A:1950:G:H4'	1:2A:1951:G:OP1	2.20	0.41
1:2A:2069:G:H2'	1:2A:2070:G:H5"	2.01	0.41
1:2A:2144:G:N2	1:2A:2145:G:H1'	2.34	0.41
1:2A:2157:C:O2	1:2A:2177:G:O2'	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2377:A:H2'	1:2A:2378:G:O4'	2.20	0.41
1:2A:2851:G:O2'	1:2A:2852:G:H5'	2.21	0.41
3:2D:51:VAL:HG12	3:2D:54:ARG:CD	2.51	0.41
3:2D:138:VAL:HG22	3:2D:139:GLY:N	2.36	0.41
4:2E:96:PHE:CD1	4:2E:96:PHE:N	2.88	0.41
4:2E:113:PHE:CB	4:2E:159:HIS:HD2	2.29	0.41
6:2G:41:GLN:HG2	6:2G:43:LEU:HD12	1.98	0.41
6:2G:125:PHE:HD2	6:2G:166:ASP:HB3	1.86	0.41
7:2H:96:ALA:O	7:2H:128:PRO:HB3	2.19	0.41
10:2O:1:MET:O	10:2O:2:ILE:HD13	2.21	0.41
11:2P:19:VAL:HA	11:2P:27:HIS:HB3	2.03	0.41
11:2P:83:VAL:HG21	11:2P:114:ILE:HG12	2.01	0.41
15:2T:52:ILE:HG12	15:2T:61:PHE:HB3	2.03	0.41
16:2U:13:LYS:O	16:2U:16:LYS:HB3	2.20	0.41
18:2W:12:ILE:HD13	18:2W:17:VAL:CG1	2.50	0.41
21:2Z:56:VAL:HA	21:2Z:70:LEU:CD2	2.50	0.41
25:23:6:VAL:HG11	25:23:28:LEU:HD11	2.02	0.41
32:2a:71:G:C2'	32:2a:72:C:H5'	2.49	0.41
32:2a:188:C:H2'	32:2a:189:U:C5'	2.50	0.41
32:2a:299:A:C2'	32:2a:300:U:H5'	2.50	0.41
32:2a:324:C:H4'	32:2a:325:A:H5'	2.02	0.41
32:2a:337:C:H2'	32:2a:338:C:C5'	2.50	0.41
32:2a:1321:A:H2'	32:2a:1322:A:H5'	2.03	0.41
32:2a:1464:G:H2'	32:2a:1465:G:O4'	2.19	0.41
33:2b:8:LYS:O	33:2b:9:GLU:HB3	2.20	0.41
34:2c:154:SER:OG	34:2c:165:THR:HG23	2.20	0.41
35:2d:61:LYS:HD2	35:2d:207:TYR:OH	2.20	0.41
37:2f:4:TYR:HD2	37:2f:90:VAL:HG11	1.85	0.41
37:2f:80:ARG:HA	37:2f:85:VAL:HG11	2.02	0.41
38:2g:106:GLN:O	38:2g:110:GLN:HG3	2.21	0.41
39:2h:20:TYR:HD1	39:2h:20:TYR:N	2.18	0.41
40:2i:32:ASP:O	40:2i:33:PHE:C	2.64	0.41
44:2m:51:ALA:HA	44:2m:54:VAL:CG2	2.47	0.41
50:2s:38:SER:C	50:2s:71:LEU:HD13	2.46	0.41
1:1A:251:C:H2'	1:1A:252:C:O4'	2.20	0.41
1:1A:933:A:C4'	1:1A:934:C:H5"	2.50	0.41
1:1A:1055:A:O3'	16:1U:77:SER:OG	2.37	0.41
1:1A:1093:A:N1	1:1A:1157:G:O2'	2.50	0.41
1:1A:1128:U:H1'	1:1A:1131:A:H61	1.84	0.41
1:1A:1397:U:C2'	1:1A:1398:A:H5'	2.50	0.41
1:1A:1684:C:H1'	1:1A:2709:U:H1'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1758:C:N4	1:1A:1776:G:H1	2.15	0.41
1:1A:2233:G:C2'	1:1A:2234:G:H5'	2.50	0.41
3:1D:68:LYS:HE3	3:1D:70:TRP:CZ2	2.56	0.41
6:1G:39:ILE:CD1	6:1G:64:THR:HG21	2.48	0.41
6:1G:133:LEU:C	6:1G:133:LEU:HD12	2.45	0.41
7:1H:77:LYS:O	7:1H:81:GLU:N	2.53	0.41
13:1R:33:ARG:NH2	27:15:57:VAL:O	2.49	0.41
14:1S:111:GLU:O	14:1S:112:PHE:HB3	2.21	0.41
15:1T:39:ARG:NH1	15:1T:41:ARG:HB3	2.35	0.41
15:1T:53:ARG:O	15:1T:59:THR:HA	2.20	0.41
17:1V:20:LEU:HG	17:1V:22:VAL:HG13	2.02	0.41
18:1W:39:THR:O	18:1W:41:LYS:N	2.52	0.41
20:1Y:59:GLY:C	20:1Y:60:PHE:HD1	2.28	0.41
26:14:36:CYS:SG	26:14:39:CYS:N	2.93	0.41
32:1a:36:G:H2'	32:1a:37:C:C6	2.55	0.41
32:1a:62:G:N2	32:1a:101:G:H1'	2.36	0.41
32:1a:190:U:N3	48:1q:72:ARG:NH1	2.66	0.41
32:1a:403:G:O4'	35:1d:119:GLN:OE1	2.39	0.41
32:1a:415:C:H2'	32:1a:416:U:C5'	2.51	0.41
32:1a:636:U:O2'	32:1a:736:G:N2	2.54	0.41
32:1a:723:C:O2'	46:1o:42:HIS:ND1	2.48	0.41
32:1a:981:G:H5"	32:1a:982:G:OP2	2.21	0.41
32:1a:1043:C:H4'	41:1j:52:GLY:CA	2.50	0.41
32:1a:1135:A:H5'	41:1j:13:HIS:CG	2.55	0.41
32:1a:1216:C:H6	32:1a:1216:C:O5'	2.04	0.41
32:1a:1368:G:H2'	32:1a:1369:G:H8	1.85	0.41
33:1b:69:LEU:CD1	33:1b:91:PRO:HB2	2.51	0.41
35:1d:61:LYS:HD3	35:1d:206:PHE:CD2	2.55	0.41
37:1f:10:LEU:HD12	37:1f:10:LEU:N	2.35	0.41
39:1h:6:ILE:O	39:1h:10:LEU:HG	2.20	0.41
40:1i:22:GLY:HA3	40:1i:60:ASP:OD2	2.20	0.41
43:1l:50:SER:O	43:1l:51:ALA:HB2	2.20	0.41
44:1m:14:ARG:HG3	44:1m:44:ARG:CZ	2.51	0.41
44:1m:79:LYS:HA	44:1m:82:MET:CE	2.39	0.41
44:1m:89:GLY:O	44:1m:93:ARG:HG3	2.21	0.41
51:1t:85:MET:O	51:1t:86:ARG:C	2.63	0.41
1:2A:28:U:H2'	1:2A:29:G:H8	1.85	0.41
1:2A:172:C:HO2'	1:2A:205:G:N2	2.19	0.41
1:2A:309:C:O2'	1:2A:310:C:H5'	2.21	0.41
1:2A:434:G:O2'	1:2A:435:C:H5'	2.20	0.41
1:2A:1077:A:H5'	31:29:7:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1104:G:H2'	1:2A:1105:U:C5	2.55	0.41
1:2A:1110:U:C1'	1:2A:1111:U:P	3.07	0.41
1:2A:1141:A:C4	1:2A:1142:U:H5	2.39	0.41
1:2A:1293:G:C5	16:2U:3:ARG:HB3	2.56	0.41
1:2A:1412:A:N7	1:2A:1413:G:H1'	2.35	0.41
1:2A:1631:A:N6	1:2A:1632:A:N1	2.68	0.41
1:2A:1700:A:C2	4:2E:113:PHE:CD2	3.09	0.41
1:2A:1709:C:O2'	1:2A:1710:A:O5'	2.36	0.41
1:2A:2348:G:H2'	1:2A:2348:G:N3	2.35	0.41
1:2A:2566:U:H2'	1:2A:2567:C:H5'	2.03	0.41
1:2A:2724:A:OP1	59:2A:3904:HOH:O	2.22	0.41
1:2A:2787:A:OP2	59:2A:3909:HOH:O	2.22	0.41
1:2A:2813:C:H2'	1:2A:2814:C:H6	1.84	0.41
2:2B:70:C:H6	2:2B:70:C:O5'	2.03	0.41
3:2D:51:VAL:CG1	3:2D:54:ARG:HD2	2.50	0.41
3:2D:137:PRO:HB2	3:2D:140:THR:CG2	2.50	0.41
4:2E:37:ARG:O	4:2E:45:THR:HA	2.21	0.41
5:2F:116:ASP:OD2	11:2P:1:MET:HB3	2.20	0.41
6:2G:15:VAL:HG22	6:2G:175:LEU:HG	2.03	0.41
6:2G:56:ALA:HA	6:2G:153:ARG:HH21	1.85	0.41
6:2G:145:THR:HG23	6:2G:148:MET:H	1.84	0.41
10:2O:44:LYS:O	10:2O:45:GLU:HB2	2.21	0.41
10:2O:119:PRO:CB	15:2T:68:TYR:CE2	2.93	0.41
13:2R:81:ASP:O	13:2R:85:PRO:HG2	2.21	0.41
14:2S:74:ALA:CB	14:2S:110:LEU:HD13	2.51	0.41
14:2S:93:LYS:HD3	14:2S:93:LYS:C	2.45	0.41
17:2V:6:LYS:O	17:2V:7:THR:HB	2.21	0.41
17:2V:28:GLU:O	17:2V:61:VAL:HG21	2.20	0.41
19:2X:10:ALA:HA	24:22:37:PHE:CE1	2.56	0.41
21:2Z:91:LEU:HD21	21:2Z:130:PRO:HB3	2.02	0.41
30:28:60:LEU:O	30:28:63:PRO:HD3	2.20	0.41
32:2a:155:A:H8	32:2a:155:A:O5'	2.02	0.41
32:2a:273:C:H2'	32:2a:274:G:O4'	2.20	0.41
32:2a:431:C:H2'	32:2a:432:C:H6	1.85	0.41
32:2a:734:G:H21	46:2o:23:GLY:CA	2.34	0.41
32:2a:862:U:H4'	32:2a:863:G:H5"	2.03	0.41
32:2a:1271:A:N6	32:2a:1354:G:O2'	2.54	0.41
32:2a:1274:U:H5"	40:2i:38:GLN:NE2	2.36	0.41
32:2a:1450:U:H2'	32:2a:1451:A:C5'	2.50	0.41
34:2c:20:SER:HB2	34:2c:40:ARG:HH21	1.85	0.41
35:2d:41:GLY:O	35:2d:43:HIS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:201:GLN:O	35:2d:204:ILE:HB	2.21	0.41
36:2e:37:ARG:HA	36:2e:114:GLY:N	2.35	0.41
36:2e:78:HIS:HA	39:2h:105:ARG:HG3	2.01	0.41
38:2g:46:ALA:O	38:2g:49:ILE:HB	2.20	0.41
38:2g:47:CYS:SG	38:2g:58:PRO:HB2	2.61	0.41
40:2i:45:ALA:O	40:2i:48:GLU:HB2	2.21	0.41
43:2l:60:LEU:HD12	43:2l:60:LEU:N	2.35	0.41
44:2m:65:LYS:HD3	44:2m:69:GLU:HG2	2.01	0.41
44:2m:70:LEU:O	44:2m:73:GLU:N	2.54	0.41
46:2o:36:ILE:O	46:2o:37:ASN:C	2.63	0.41
50:2s:45:VAL:HG22	50:2s:62:ILE:HG22	2.03	0.41
51:2t:63:ILE:HG21	51:2t:81:LYS:HG3	2.02	0.41
1:1A:122:G:H21	29:17:48:LYS:HA	1.83	0.41
1:1A:233:G:C2'	1:1A:234:C:H5'	2.50	0.41
1:1A:309:C:H2'	1:1A:310:C:C6	2.55	0.41
1:1A:363:A:H2'	1:1A:364:G:H5'	2.03	0.41
1:1A:441:A:H2'	1:1A:442:C:C6	2.55	0.41
1:1A:442:C:N3	1:1A:2418:G:N1	2.50	0.41
1:1A:481:C:C4	19:1X:69:TYR:CE2	3.08	0.41
1:1A:624:G:N2	1:1A:701:A:N7	2.65	0.41
1:1A:648:C:C2'	1:1A:649:G:H5'	2.50	0.41
1:1A:702:G:H8	1:1A:702:G:O5'	2.03	0.41
1:1A:751:A:H1'	3:1D:9:TYR:CD2	2.56	0.41
1:1A:790:G:H2'	1:1A:791:G:C5'	2.51	0.41
1:1A:792:A:N6	59:1A:3903:HOH:O	2.52	0.41
1:1A:826:G:H5"	1:1A:827:A:P	2.60	0.41
1:1A:986:G:OP1	11:1P:39:LYS:HE3	2.21	0.41
1:1A:1032:G:OP1	59:1A:4372:HOH:O	2.21	0.41
1:1A:1403:G:H2'	1:1A:1404:A:OP2	2.20	0.41
1:1A:1793:G:H5"	59:1A:4232:HOH:O	2.21	0.41
1:1A:2315:G:O2'	1:1A:2316:A:H5"	2.20	0.41
1:1A:2517:U:H4'	1:1A:2518:C:OP1	2.20	0.41
1:1A:2723:U:O2'	1:1A:2724:A:P	2.78	0.41
1:1A:2771:G:O2'	1:1A:2772:C:H5'	2.21	0.41
1:1A:2796:C:O2'	1:1A:2797:C:H5'	2.21	0.41
1:1A:2864:C:H42	1:1A:2871:G:H1	1.67	0.41
2:1B:105:A:H4'	21:1Z:89:PHE:CD1	2.55	0.41
7:1H:143:GLN:O	7:1H:144:VAL:C	2.64	0.41
8:1I:99:GLU:HA	8:1I:102:SER:OG	2.20	0.41
10:1O:118:ALA:O	55:1a:1900:MPD:H13	2.21	0.41
21:1Z:124:ILE:HG23	21:1Z:126:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:193:G:O2'	32:1a:194:G:H5'	2.20	0.41
32:1a:211:U:O2	32:1a:211:U:O4'	2.37	0.41
32:1a:314:G:O2'	32:1a:1446:A:O2'	2.20	0.41
32:1a:388:G:O2'	32:1a:468:C:O2'	1.94	0.41
32:1a:486:G:OP1	43:1l:116:SER:HA	2.21	0.41
32:1a:526:G:O2'	32:1a:527:C:H5'	2.20	0.41
32:1a:531:A:OP1	59:1a:2071:HOH:O	2.21	0.41
32:1a:849:U:C3'	32:1a:850:A:H5"	2.51	0.41
32:1a:856:G:H5"	39:1h:89:PRO:HG2	2.02	0.41
32:1a:859:G:O2'	32:1a:860:C:H5'	2.20	0.41
32:1a:1003:G:N3	32:1a:1003:G:C2'	2.83	0.41
32:1a:1255:G:N3	32:1a:1256:G:H1'	2.35	0.41
32:1a:1257:A:H2'	32:1a:1258:G:C5'	2.51	0.41
32:1a:1388:G:O2'	32:1a:1389:U:H5'	2.20	0.41
33:1b:92:TYR:HE1	33:1b:151:GLY:N	2.17	0.41
33:1b:115:LEU:HD12	33:1b:142:LEU:HD12	2.01	0.41
33:1b:200:ILE:HD12	33:1b:200:ILE:N	2.35	0.41
36:1e:105:VAL:O	36:1e:109:ILE:HG13	2.21	0.41
36:1e:149:GLU:CA	36:1e:152:ARG:HG2	2.45	0.41
37:1f:16:GLN:O	37:1f:19:LEU:HB3	2.20	0.41
37:1f:30:LEU:O	37:1f:35:ALA:HB3	2.20	0.41
38:1g:111:ARG:HB2	38:1g:119:ARG:HG2	2.03	0.41
38:1g:148:ASN:C	38:1g:150:ALA:H	2.28	0.41
40:1i:18:PHE:O	40:1i:61:ALA:HA	2.21	0.41
43:1l:117:ARG:HH12	43:1l:124:LYS:N	2.19	0.41
46:1o:39:LEU:HD12	46:1o:59:MET:SD	2.60	0.41
48:1q:52:LYS:CG	48:1q:53:LEU:H	2.33	0.41
49:1r:85:LEU:HD23	49:1r:85:LEU:C	2.46	0.41
50:1s:57:HIS:O	50:1s:59:PRO:HD3	2.20	0.41
51:1t:102:GLY:HA3	51:1t:103:GLY:HA3	1.83	0.41
1:2A:44:C:O2'	1:2A:45:C:H5'	2.20	0.41
1:2A:262:C:H2'	1:2A:263:G:O4'	2.21	0.41
1:2A:265:C:N4	1:2A:277:G:H1	2.14	0.41
1:2A:275:C:H2'	1:2A:276:G:H5'	2.02	0.41
1:2A:605:G:OP2	16:2U:10:ARG:NH1	2.50	0.41
1:2A:1022:G:O2'	1:2A:1023:G:H5'	2.21	0.41
1:2A:1050:C:H2'	1:2A:1051:C:C6	2.55	0.41
1:2A:1076:G:HO2'	31:29:7:VAL:C	2.26	0.41
1:2A:1528:G:O2'	1:2A:1529:G:H5'	2.20	0.41
1:2A:1652:C:N4	1:2A:1666:U:H3'	2.36	0.41
1:2A:1864:U:H5"	1:2A:1865:G:P	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2071:C:H1'	4:2E:156:MET:CE	2.50	0.41
1:2A:2132:C:N4	1:2A:2168:G:H22	2.18	0.41
1:2A:2262:OMG:HM22	1:2A:2263:G:H5'	2.02	0.41
1:2A:2389:A:H4'	14:2S:23:ARG:NE	2.35	0.41
1:2A:2521:C:H42	1:2A:2589:G:H1	1.67	0.41
1:2A:2691:C:C1'	4:2E:187:ALA:HB1	2.48	0.41
1:2A:2695:U:O2'	10:2O:68:GLU:OE2	2.19	0.41
1:2A:2897:C:H2'	1:2A:2898:C:O4'	2.21	0.41
2:2B:97:G:C2'	2:2B:98:G:H5'	2.50	0.41
4:2E:28:ALA:O	4:2E:51:PHE:CE1	2.73	0.41
8:2I:31:LEU:N	8:2I:32:PRO:CD	2.84	0.41
9:2N:103:VAL:O	9:2N:107:LEU:HG	2.21	0.41
10:2O:19:ILE:HB	10:2O:42:SER:O	2.21	0.41
10:2O:36:GLY:CA	10:2O:106:LEU:HD23	2.51	0.41
11:2P:131:SER:OG	11:2P:134:ALA:HB2	2.19	0.41
15:2T:65:LYS:O	15:2T:71:GLY:HA2	2.21	0.41
20:2Y:74:PRO:O	20:2Y:82:PRO:HA	2.21	0.41
24:22:32:LEU:O	24:22:34:GLU:N	2.53	0.41
24:22:46:GLN:C	24:22:48:HIS:N	2.79	0.41
26:24:61:ARG:CD	50:2s:42:PRO:HD3	2.50	0.41
26:24:61:ARG:O	26:24:63:TYR:CD2	2.74	0.41
32:2a:501:G:N2	32:2a:517:A:OP2	2.50	0.41
32:2a:643:U:H2'	32:2a:644:G:H8	1.85	0.41
32:2a:1270:A:O3'	52:2u:10:ARG:NH2	2.49	0.41
32:2a:1329:G:N2	32:2a:1357:A:O5'	2.54	0.41
33:2b:33:TYR:HB2	33:2b:43:ASP:HB2	2.02	0.41
33:2b:44:LEU:O	33:2b:47:THR:N	2.54	0.41
33:2b:102:LEU:HD23	33:2b:180:LEU:HD12	2.03	0.41
33:2b:198:ASP:C	33:2b:199:TYR:CD1	2.91	0.41
34:2c:112:SER:CB	34:2c:115:LEU:HD13	2.51	0.41
34:2c:153:VAL:O	34:2c:165:THR:HG23	2.21	0.41
34:2c:173:VAL:HG12	34:2c:175:LEU:HD11	2.01	0.41
35:2d:95:GLY:O	35:2d:99:SER:N	2.51	0.41
36:2e:47:LYS:O	36:2e:57:LYS:NZ	2.33	0.41
38:2g:80:VAL:HB	38:2g:85:TYR:CE2	2.55	0.41
42:2k:102:GLY:C	42:2k:103:LEU:HD12	2.46	0.41
44:2m:108:ARG:NH2	44:2m:114:ARG:HG2	2.36	0.41
50:2s:26:GLY:O	50:2s:27:GLU:O	2.39	0.41
50:2s:38:SER:HB2	50:2s:71:LEU:HD22	2.01	0.41
50:2s:52:TYR:CE1	50:2s:56:GLN:N	2.89	0.41
1:1A:273:U:O2'	1:1A:274:C:C5'	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:601:G:O2'	1:1A:602:C:H5'	2.20	0.41
1:1A:739:C:O2'	1:1A:1398:A:N3	2.41	0.41
1:1A:772:G:O2'	1:1A:773:A:OP2	2.38	0.41
1:1A:1013:U:H2'	1:1A:1014:C:C6	2.56	0.41
1:1A:1026:A:H5"	1:1A:1027:C:OP2	2.21	0.41
1:1A:1102:A:H8	1:1A:1102:A:P	2.43	0.41
1:1A:1114:A:C5	1:1A:1118:A:N7	2.89	0.41
1:1A:1243:U:H2'	1:1A:1244:C:O4'	2.21	0.41
1:1A:1479:A:O2'	1:1A:1480:G:H5'	2.20	0.41
1:1A:1525:G:H1	1:1A:1559:U:H3	1.67	0.41
1:1A:1645:C:C2'	1:1A:1646:G:H5'	2.51	0.41
1:1A:1845:A:H4'	1:1A:1846:G:OP1	2.21	0.41
1:1A:2537:G:C2'	1:1A:2538:C:H5'	2.51	0.41
1:1A:2719:G:H5'	13:1R:68:ARG:HB3	2.03	0.41
2:1B:11:C:H3'	2:1B:12:C:C6	2.55	0.41
2:1B:77:U:O2'	59:1B:304:HOH:O	2.07	0.41
3:1D:239:ARG:O	3:1D:240:ALA:HB2	2.21	0.41
4:1E:103:ASP:OD1	4:1E:168:MET:HA	2.20	0.41
6:1G:20:ILE:O	6:1G:24:GLY:N	2.50	0.41
6:1G:35:GLU:HB2	6:1G:160:VAL:CG1	2.50	0.41
6:1G:174:GLU:O	6:1G:177:GLY:N	2.54	0.41
8:1I:109:ILE:HD11	8:1I:130:TYR:CZ	2.56	0.41
10:1O:3:GLN:HB2	10:1O:4:PRO:CD	2.50	0.41
10:1O:119:PRO:HB2	15:1T:68:TYR:HD2	1.79	0.41
14:1S:89:ARG:HH11	14:1S:93:LYS:HA	1.84	0.41
15:1T:113:LYS:O	15:1T:114:LEU:HD23	2.21	0.41
15:1T:117:ASP:O	15:1T:118:ARG:C	2.62	0.41
18:1W:2:GLU:OE2	18:1W:72:LYS:NZ	2.40	0.41
20:1Y:23:ARG:HD3	59:1Y:606:HOH:O	2.18	0.41
21:1Z:5:LEU:CD2	21:1Z:44:PHE:HB2	2.46	0.41
21:1Z:54:HIS:CG	21:1Z:101:PRO:HG3	2.56	0.41
23:11:86:SER:HB2	23:11:87:PRO:CD	2.51	0.41
26:14:18:CYS:SG	26:14:39:CYS:HB2	2.61	0.41
30:18:48:PHE:HE2	30:18:50:LEU:HD23	1.83	0.41
32:1a:106:G:H4'	32:1a:385:A:H4'	2.03	0.41
32:1a:164:C:H2'	32:1a:165:U:H6	1.85	0.41
32:1a:271:G:H5'	48:1q:14:LYS:CD	2.50	0.41
32:1a:656:U:H2'	32:1a:657:G:H8	1.85	0.41
32:1a:693:G:O2'	32:1a:694:G:H5'	2.21	0.41
32:1a:1043:C:C4'	41:1j:52:GLY:HA2	2.51	0.41
32:1a:1059:C:H2'	32:1a:1060:G:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1388:G:C4'	32:1a:1497:MA6:H4'	2.50	0.41
32:1a:1451:A:H2'	32:1a:1452:G:O4'	2.21	0.41
34:1c:6:HIS:CB	45:1n:49:HIS:HB3	2.51	0.41
35:1d:82:ALA:C	35:1d:89:THR:HG23	2.46	0.41
38:1g:125:MET:O	38:1g:128:ALA:HB3	2.20	0.41
38:1g:129:GLU:OE1	38:1g:131:LYS:HE2	2.21	0.41
40:1i:17:VAL:O	40:1i:17:VAL:HG13	2.20	0.41
43:1l:83:VAL:CG1	43:1l:84:LEU:N	2.84	0.41
44:1m:54:VAL:HG12	44:1m:57:ARG:NH1	2.36	0.41
48:1q:62:SER:HB3	48:1q:72:ARG:HH11	1.85	0.41
48:1q:67:LYS:O	48:1q:68:ARG:HB3	2.20	0.41
50:1s:80:TYR:CZ	50:1s:82:GLY:HA2	2.55	0.41
1:2A:177:G:P	23:21:39:LYS:HD3	2.61	0.41
1:2A:320:C:H5"	20:2Y:87:LYS:HG2	2.03	0.41
1:2A:335:G:H4'	1:2A:354:A:N3	2.35	0.41
1:2A:511:C:O2'	18:2W:60:ASN:ND2	2.54	0.41
1:2A:661:A:OP2	11:2P:115:LEU:HD22	2.20	0.41
1:2A:739:C:H2'	1:2A:740:U:O4'	2.21	0.41
1:2A:744:C:O2'	1:2A:780:A:N6	2.53	0.41
1:2A:902:C:O2	22:20:26:TYR:HB3	2.20	0.41
1:2A:949:C:H2'	1:2A:950:U:C6	2.56	0.41
1:2A:955:A:H5'	1:2A:956:A:OP2	2.21	0.41
1:2A:1272:G:H2'	1:2A:1273:G:O4'	2.20	0.41
1:2A:1382:G:N2	1:2A:1383:G:H1'	2.36	0.41
1:2A:1635:U:H2'	1:2A:1636:G:H8	1.85	0.41
1:2A:1640:G:C2'	1:2A:1641:A:H5'	2.51	0.41
1:2A:1789:A:H4'	1:2A:2727:C:C1'	2.51	0.41
1:2A:2603:G:H2'	1:2A:2604:U:H5'	2.01	0.41
1:2A:2676:A:O2'	1:2A:2677:C:H5'	2.20	0.41
1:2A:2690:A:O2'	4:2E:189:PRO:HG3	2.20	0.41
1:2A:2772:C:O2'	1:2A:2773:G:H5'	2.20	0.41
2:2B:7:G:H3'	2:2B:8:U:C5'	2.39	0.41
2:2B:22:U:O2'	2:2B:23:G:H5'	2.21	0.41
3:2D:129:ASN:O	3:2D:192:THR:HG23	2.21	0.41
3:2D:243:GLY:O	3:2D:244:ARG:HB3	2.19	0.41
4:2E:102:VAL:HA	4:2E:201:THR:N	2.35	0.41
6:2G:63:ILE:CG2	6:2G:141:PHE:HE2	2.33	0.41
7:2H:75:ALA:O	7:2H:79:VAL:HG22	2.20	0.41
7:2H:103:LEU:HB2	7:2H:123:PHE:HD2	1.84	0.41
12:2Q:54:MET:HB2	12:2Q:64:ILE:CD1	2.51	0.41
20:2Y:43:ASN:OD1	20:2Y:65:ALA:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:44:PHE:O	21:2Z:45:ASP:C	2.64	0.41
22:20:47:PRO:HA	22:20:51:VAL:CG1	2.51	0.41
28:26:39:TYR:HA	28:26:46:HIS:HA	2.02	0.41
31:29:19:ARG:N	31:29:22:ARG:O	2.53	0.41
32:2a:447:A:H62	32:2a:465:U:H3	1.69	0.41
32:2a:598:A:C2'	32:2a:599:C:H5'	2.50	0.41
32:2a:1041:G:N2	41:2j:53:PRO:HG3	2.35	0.41
32:2a:1300:A:O2'	50:2s:37:ARG:CD	2.66	0.41
32:2a:1317:C:H3'	32:2a:1317:C:OP1	2.20	0.41
32:2a:1477:A:C2'	32:2a:1478:A:H5'	2.51	0.41
33:2b:74:LYS:HE3	33:2b:166:ASP:HB3	2.02	0.41
33:2b:91:PRO:HG3	33:2b:155:LEU:HB2	2.03	0.41
34:2c:20:SER:HB2	34:2c:40:ARG:NH2	2.36	0.41
35:2d:190:ASP:O	35:2d:193:ASP:HB2	2.21	0.41
37:2f:4:TYR:HA	37:2f:93:SER:N	2.28	0.41
37:2f:43:LEU:HD22	37:2f:46:ARG:HH22	1.86	0.41
38:2g:27:ILE:HD12	38:2g:40:ALA:HA	2.03	0.41
40:2i:90:PRO:C	40:2i:92:TYR:H	2.28	0.41
40:2i:117:HIS:HB2	40:2i:121:ARG:O	2.20	0.41
43:2l:27:LEU:CD1	43:2l:98:TYR:HE1	2.33	0.41
45:2n:34:TYR:O	45:2n:38:GLY:N	2.45	0.41
46:2o:26:GLU:CD	46:2o:26:GLU:H	2.29	0.41
1:1A:11:U:C2'	1:1A:12:A:O5'	2.68	0.41
1:1A:31:C:C2'	1:1A:32:U:H5'	2.51	0.41
1:1A:109:U:H5'	24:12:65:ASN:ND2	2.36	0.41
1:1A:139:A:H1'	1:1A:1453:C:H1'	2.03	0.41
1:1A:216:A:H8	1:1A:216:A:H3'	1.86	0.41
1:1A:237:C:O2	30:18:12:LYS:NZ	2.35	0.41
1:1A:267:G:O2'	1:1A:268:G:H8	2.04	0.41
1:1A:311:C:N4	1:1A:376:G:H1	2.19	0.41
1:1A:416:A:H5'	1:1A:438:A:O4'	2.21	0.41
1:1A:466:U:H2'	1:1A:467:G:C8	2.56	0.41
1:1A:473:U:N3	1:1A:605:G:N3	2.69	0.41
1:1A:566:C:C2'	1:1A:567:C:H5'	2.51	0.41
1:1A:587:C:C2'	1:1A:588:U:H5'	2.51	0.41
1:1A:671:G:H8	1:1A:671:G:O5'	2.03	0.41
1:1A:793:U:H1'	18:1W:92:ARG:NH2	2.35	0.41
1:1A:826:G:H5"	1:1A:827:A:OP2	2.21	0.41
1:1A:829:A:H8	1:1A:1808:U:O2'	2.04	0.41
1:1A:857:U:O2	1:1A:1295:G:H3'	2.21	0.41
1:1A:955:A:C5	12:1Q:13:GLN:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1116:G:H1'	1:1A:1134:G:C4	2.56	0.41
1:1A:1137:C:H2'	1:1A:1138:G:H5'	2.02	0.41
1:1A:1342:C:OP1	1:1A:2721:C:H4'	2.20	0.41
1:1A:1366:A:H2'	1:1A:1367:A:O4'	2.21	0.41
1:1A:1433:G:H2'	1:1A:1434:G:C8	2.54	0.41
1:1A:1456:C:O2'	1:1A:1457:A:H5'	2.20	0.41
1:1A:1522:C:O5'	1:1A:1522:C:H6	2.03	0.41
1:1A:1576:C:O2'	1:1A:1577:C:H5"	2.19	0.41
1:1A:1766:A:O2'	1:1A:1767:U:H2'	2.21	0.41
1:1A:1775:G:H2'	1:1A:1776:G:H5'	2.02	0.41
1:1A:1797:C:H2'	1:1A:1798:U:C5'	2.50	0.41
1:1A:1854:G:O3'	3:1D:249:PRO:HD3	2.21	0.41
1:1A:1892:G:O2'	1:1A:1893:G:H5'	2.21	0.41
1:1A:2000:C:H2'	1:1A:2001:G:H5'	2.02	0.41
1:1A:2341:G:H2'	1:1A:2342:G:O4'	2.21	0.41
1:1A:2375:C:C2'	1:1A:2376:G:H5'	2.51	0.41
1:1A:2484:U:O2	1:1A:2484:U:H2'	2.21	0.41
1:1A:2555:G:C2'	1:1A:2556:G:H5'	2.51	0.41
1:1A:2700:U:OP1	1:1A:2731:G:N1	2.36	0.41
1:1A:2774:G:C2'	1:1A:2775:G:H5'	2.50	0.41
1:1A:2841:U:O2	1:1A:2843:G:N1	2.54	0.41
2:1B:7:G:H2'	2:1B:8:U:O4'	2.20	0.41
2:1B:82:G:O2'	2:1B:83:G:H5'	2.21	0.41
3:1D:29:PRO:HB2	3:1D:34:VAL:HG11	2.02	0.41
3:1D:70:TRP:CZ2	3:1D:150:LYS:HD2	2.56	0.41
3:1D:172:TYR:HE2	3:1D:269:PHE:CD1	2.39	0.41
6:1G:47:LYS:CG	6:1G:48:GLU:N	2.84	0.41
7:1H:24:VAL:HG21	7:1H:72:ILE:HG12	2.03	0.41
7:1H:32:GLU:O	7:1H:33:LEU:HG	2.21	0.41
8:1I:14:ASP:OD1	8:1I:15:VAL:HG12	2.20	0.41
8:1I:42:SER:OG	8:1I:43:ASN:N	2.52	0.41
10:1O:119:PRO:HB2	15:1T:68:TYR:HE2	1.83	0.41
11:1P:140:ALA:O	25:23:38:GLU:HG2	2.19	0.41
13:1R:98:LEU:O	13:1R:113:LEU:N	2.44	0.41
15:1T:37:GLY:HA2	15:1T:38:ASN:HA	1.64	0.41
15:1T:45:PHE:CE1	15:1T:65:LYS:CD	3.03	0.41
15:1T:47:GLY:HA3	15:1T:64:ARG:O	2.20	0.41
18:1W:10:VAL:CG1	18:1W:46:PHE:CD2	3.04	0.41
19:1X:43:VAL:O	19:1X:47:PHE:N	2.53	0.41
19:1X:65:ARG:HA	19:1X:69:TYR:O	2.21	0.41
20:1Y:74:PRO:O	20:1Y:82:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:96:VAL:HG22	21:1Z:97:GLU:N	2.36	0.41
22:10:67:VAL:CG1	22:10:68:GLU:N	2.84	0.41
23:11:44:PRO:O	23:11:46:LEU:N	2.53	0.41
28:16:20:ASN:HB3	28:16:21:TYR:CE1	2.56	0.41
30:18:22:VAL:HB	30:18:55:ALA:HB1	2.03	0.41
31:19:10:ILE:HD12	31:19:32:HIS:HA	2.01	0.41
32:1a:18:U:O4'	32:1a:1063:A:H1'	2.21	0.41
32:1a:24:C:C2'	32:1a:25:U:H5'	2.51	0.41
32:1a:289:G:C2'	32:1a:290:U:H5'	2.50	0.41
32:1a:493:A:HO2'	32:1a:494:A:P	2.42	0.41
32:1a:520:C:O2'	32:1a:521:G:H5'	2.20	0.41
32:1a:648:G:N2	32:1a:725:G:H1	2.18	0.41
32:1a:729:C:H2'	32:1a:730:A:O4'	2.21	0.41
32:1a:826:C:H2'	32:1a:827:C:C6	2.50	0.41
32:1a:900:G:H1'	36:1e:19:MET:CB	2.51	0.41
32:1a:922:G:N2	32:1a:1320:G:OP2	2.48	0.41
32:1a:1035:U:H6	32:1a:1035:U:O5'	2.04	0.41
32:1a:1056:U:P	36:1e:57:LYS:HE3	2.61	0.41
32:1a:1153:G:H2'	32:1a:1154:C:H6	1.82	0.41
32:1a:1298:G:H22	32:1a:1300:A:H3'	1.84	0.41
32:1a:1337:G:H2'	32:1a:1338:G:C8	2.56	0.41
32:1a:1475:G:H2'	32:1a:1476:UR3:H5'	2.03	0.41
33:1b:123:ALA:O	33:1b:124:SER:OG	2.37	0.41
33:1b:201:ILE:O	33:1b:203:GLY:N	2.54	0.41
35:1d:5:ILE:O	35:1d:5:ILE:HG23	2.21	0.41
35:1d:75:PHE:HE1	35:1d:93:PHE:CZ	2.39	0.41
36:1e:19:MET:SD	36:1e:24:ARG:HB3	2.61	0.41
36:1e:59:GLY:O	36:1e:63:ARG:HG2	2.21	0.41
37:1f:14:LEU:HB3	37:1f:18:GLN:HB2	2.02	0.41
37:1f:22:GLU:CD	37:1f:82:ARG:HE	2.23	0.41
39:1h:63:LEU:CB	39:1h:65:TYR:CE1	3.03	0.41
40:1i:19:LEU:HD23	40:1i:61:ALA:CB	2.48	0.41
41:1j:80:LYS:O	41:1j:84:GLN:HG2	2.21	0.41
42:1k:21:ILE:HD11	42:1k:98:LEU:CD1	2.50	0.41
42:1k:62:GLN:HG2	42:1k:66:LEU:HD12	2.03	0.41
42:1k:124:LYS:O	42:1k:125:PHE:HD1	2.04	0.41
43:1l:26:ALA:HB2	43:1l:64:TYR:HD2	1.86	0.41
43:1l:39:VAL:HG12	43:1l:39:VAL:O	2.21	0.41
44:1m:10:PRO:HG2	44:1m:21:TYR:CE2	2.56	0.41
45:1n:34:TYR:O	45:1n:38:GLY:N	2.46	0.41
46:1o:66:LEU:O	46:1o:67:LEU:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:1q:25:ARG:C	48:1q:25:ARG:HD2	2.46	0.41
51:1t:89:ARG:O	51:1t:90:GLN:C	2.64	0.41
51:1t:97:ALA:HB1	51:1t:98:PRO:HD2	2.01	0.41
1:2A:120:G:C2'	1:2A:121:G:H5'	2.51	0.41
1:2A:130:C:C2'	1:2A:131:C:H5'	2.51	0.41
1:2A:483:G:C8	29:27:37:LYS:HG2	2.56	0.41
1:2A:488:G:H2'	1:2A:490:G:N7	2.36	0.41
1:2A:540:C:C2'	1:2A:541:C:H5'	2.50	0.41
1:2A:662:G:H2'	1:2A:663:U:C6	2.56	0.41
1:2A:748:G:C2'	1:2A:749:U:H5'	2.51	0.41
1:2A:773:A:C6	1:2A:774:G:C6	3.09	0.41
1:2A:788:G:H1	1:2A:801:C:H42	1.69	0.41
1:2A:897:U:O2'	25:23:45:GLY:HA3	2.21	0.41
1:2A:908:G:C4'	2:2B:79:C:H4'	2.51	0.41
1:2A:947:C:H2'	1:2A:948:C:H6	1.85	0.41
1:2A:1108:G:H1	1:2A:1120:C:H42	1.63	0.41
1:2A:1147:C:O2'	1:2A:1148:A:H5'	2.20	0.41
1:2A:1211:C:N4	1:2A:1227:G:H1	2.15	0.41
1:2A:1232:U:C4'	17:2V:79:VAL:HG13	2.50	0.41
1:2A:1289:G:O2'	1:2A:1290:G:H5'	2.20	0.41
1:2A:1358:U:H2'	1:2A:1358:U:O2	2.20	0.41
1:2A:1358:U:C2	1:2A:1655:A:H2	2.39	0.41
1:2A:1417:U:O5'	1:2A:1417:U:H6	2.04	0.41
1:2A:1700:A:C2	4:2E:113:PHE:CE2	3.09	0.41
1:2A:1700:A:H2	4:2E:113:PHE:CE2	2.38	0.41
1:2A:2082:G:H5"	1:2A:2514:2MA:C2	2.51	0.41
1:2A:2086:C:O2	1:2A:2460:U:N3	2.53	0.41
1:2A:2120:U:H1'	1:2A:2212:G:C2	2.56	0.41
1:2A:2155:A:H8	1:2A:2177:G:H21	1.67	0.41
1:2A:2167:C:H4'	1:2A:2168:G:N9	2.35	0.41
1:2A:2210:U:H2'	1:2A:2211:G:C8	2.56	0.41
1:2A:2262:OMG:HM22	1:2A:2262:OMG:O3'	2.20	0.41
1:2A:2411:G:O2'	1:2A:2412:U:H5'	2.21	0.41
1:2A:2478:C:H2'	1:2A:2479:G:H5'	2.01	0.41
1:2A:2552:A:O5'	1:2A:2552:A:H8	2.03	0.41
1:2A:2559:G:H2'	1:2A:2560:G:O4'	2.20	0.41
1:2A:2653:G:H4'	9:2N:78:TYR:HE2	1.84	0.41
1:2A:2694:C:O2'	1:2A:2695:U:H5'	2.20	0.41
1:2A:2774:G:O2'	1:2A:2775:G:H5'	2.21	0.41
1:2A:2873:G:H2'	1:2A:2874:U:C6	2.56	0.41
1:2A:2876:G:N7	15:2T:23:ARG:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:82:G:O2'	2:2B:83:G:H5'	2.21	0.41
3:2D:3:VAL:HG21	3:2D:17:THR:HB	2.03	0.41
3:2D:101:GLU:OE2	3:2D:103:ARG:HD3	2.20	0.41
3:2D:153:ALA:C	3:2D:154:LYS:HG3	2.46	0.41
4:2E:59:VAL:CG1	4:2E:60:ASN:N	2.84	0.41
4:2E:134:ILE:HD12	4:2E:134:ILE:C	2.46	0.41
5:2F:36:VAL:CG1	5:2F:183:VAL:HG21	2.51	0.41
5:2F:57:VAL:CG1	5:2F:59:TYR:CD2	3.03	0.41
5:2F:117:ARG:NH1	11:2P:1:MET:O	2.54	0.41
5:2F:178:PRO:HB3	5:2F:198:ALA:HB1	2.03	0.41
6:2G:63:ILE:HD13	6:2G:155:MET:HE1	2.03	0.41
7:2H:80:SER:OG	7:2H:81:GLU:N	2.54	0.41
8:2I:102:SER:O	8:2I:106:GLY:HA2	2.21	0.41
11:2P:25:SER:C	11:2P:27:HIS:N	2.77	0.41
11:2P:73:GLY:O	11:2P:74:GLU:C	2.63	0.41
13:2R:88:ARG:NH2	13:2R:89:ASP:OD1	2.54	0.41
14:2S:101:LEU:C	14:2S:101:LEU:HD23	2.45	0.41
16:2U:9:VAL:O	16:2U:10:ARG:C	2.64	0.41
18:2W:32:ALA:O	18:2W:33:ARG:C	2.64	0.41
19:2X:50:LYS:HB3	19:2X:84:ALA:CB	2.51	0.41
19:2X:88:LYS:HD2	19:2X:93:GLU:HG3	2.03	0.41
21:2Z:28:MET:HB2	21:2Z:90:VAL:HG23	2.03	0.41
21:2Z:99:TYR:CD1	21:2Z:99:TYR:N	2.89	0.41
26:24:35:VAL:HG23	26:24:39:CYS:O	2.21	0.41
26:24:47:GLN:C	26:24:49:PHE:H	2.28	0.41
26:24:61:ARG:O	26:24:62:ARG:HB2	2.20	0.41
29:27:8:ASN:HB3	29:27:11:LYS:HB3	2.03	0.41
29:27:34:ARG:NE	29:27:42:LEU:HA	2.35	0.41
30:28:55:ALA:O	30:28:59:LYS:HG3	2.20	0.41
32:2a:73:C:N4	32:2a:91:G:H1	2.17	0.41
32:2a:183:C:O2'	32:2a:184:G:H5'	2.21	0.41
32:2a:261:G:H2'	32:2a:262:G:H4'	2.03	0.41
32:2a:278:A:N3	32:2a:278:A:C2'	2.83	0.41
32:2a:320:G:P	51:2t:70:SER:HB2	2.61	0.41
32:2a:490:G:N2	32:2a:509:C:N3	2.65	0.41
32:2a:537:A:H4'	43:2l:27:LEU:HD22	2.02	0.41
32:2a:567:A:O2'	32:2a:568:G:H5'	2.21	0.41
32:2a:757:G:C2'	32:2a:758:G:O5'	2.69	0.41
32:2a:761:A:H2	42:2k:119:CYS:HG	1.67	0.41
32:2a:839:G:H21	32:2a:852:G:H4'	1.86	0.41
32:2a:840:C:H2'	32:2a:841:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1048:U:C1'	32:2a:1049:C:OP2	2.63	0.41
32:2a:1054:C:O2'	32:2a:1055:G:H5'	2.21	0.41
32:2a:1294:G:N2	32:2a:1307:C:N3	2.64	0.41
32:2a:1332:A:C2'	32:2a:1333:U:H5'	2.51	0.41
32:2a:1338:G:O2'	32:2a:1339:A:H5'	2.21	0.41
32:2a:1357:A:O2'	32:2a:1358:A:H5'	2.20	0.41
32:2a:1470:A:H1'	32:2a:1471:A:N3	2.36	0.41
33:2b:19:HIS:O	33:2b:20:GLU:CB	2.68	0.41
33:2b:44:LEU:O	33:2b:45:GLN:C	2.64	0.41
33:2b:207:ALA:O	33:2b:210:SER:OG	2.31	0.41
34:2c:140:ARG:O	34:2c:141:VAL:C	2.64	0.41
35:2d:8:VAL:CG1	35:2d:9:CYS:N	2.83	0.41
35:2d:101:LEU:HD23	35:2d:121:VAL:HG13	2.02	0.41
37:2f:3:ARG:O	37:2f:93:SER:HB2	2.21	0.41
37:2f:9:VAL:HA	37:2f:59:TYR:O	2.21	0.41
37:2f:22:GLU:OE2	37:2f:82:ARG:NE	2.52	0.41
38:2g:73:MET:CE	38:2g:90:GLU:HG3	2.51	0.41
38:2g:78:ARG:HD2	38:2g:156:TRP:CZ3	2.56	0.41
39:2h:3:THR:OG1	39:2h:4:ASP:N	2.54	0.41
39:2h:27:PRO:HA	39:2h:58:TYR:HD1	1.74	0.41
39:2h:41:ARG:NH1	39:2h:123:GLU:OE2	2.54	0.41
39:2h:109:ILE:HD11	39:2h:137:VAL:HB	2.03	0.41
40:2i:47:LEU:HD23	40:2i:81:ILE:CD1	2.50	0.41
41:2j:26:ALA:O	41:2j:29:ARG:N	2.53	0.41
42:2k:29:ILE:HG22	42:2k:30:VAL:N	2.36	0.41
43:2l:69:TYR:HB2	43:2l:90:VAL:HG21	2.03	0.41
44:2m:49:THR:OG1	44:2m:52:GLU:HG3	2.21	0.41
44:2m:91:ARG:HB2	44:2m:98:VAL:HG22	2.03	0.41
48:2q:96:GLU:C	48:2q:98:LEU:H	2.29	0.41
50:2s:44:MET:SD	50:2s:71:LEU:HD11	2.61	0.41
50:2s:50:ALA:HB1	50:2s:57:HIS:C	2.46	0.41
50:2s:52:TYR:HE1	50:2s:56:GLN:N	2.18	0.41
51:2t:16:HIS:O	51:2t:19:SER:OG	2.33	0.41
1:1A:354:A:N1	59:1A:4523:HOH:O	2.37	0.41
1:1A:415:G:O4'	1:1A:2424:G:H4'	2.21	0.41
1:1A:739:C:C1'	1:1A:1399:A:H1'	2.51	0.41
1:1A:838:G:O2'	1:1A:2451:C:N3	2.46	0.41
1:1A:908:G:C4'	2:1B:79:C:H4'	2.50	0.41
1:1A:1002:U:H1'	59:1A:5131:HOH:O	2.20	0.41
1:1A:1120:C:H2'	1:1A:1121:C:H3'	2.03	0.41
1:1A:1243:U:O2'	1:1A:1244:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1404:A:H61	1:1A:1417:U:H3	1.69	0.41
1:1A:1440:A:H4'	1:1A:1442:U:C5	2.56	0.41
1:1A:1909:G:H8	1:1A:1909:G:O5'	2.02	0.41
1:1A:2185:C:H3'	1:1A:2186:G:C8	2.56	0.41
1:1A:2619:G:OP1	59:1A:4386:HOH:O	2.22	0.41
1:1A:2653:G:P	9:1N:76:SER:HG	2.44	0.41
1:1A:2744:G:OP1	4:1E:203:LYS:NZ	2.54	0.41
1:1A:2824:C:O2	27:15:43:HIS:HE1	2.03	0.41
2:1B:83:G:H4'	25:13:52:HIS:CB	2.51	0.41
3:1D:67:PHE:HD1	3:1D:153:ALA:HB3	1.86	0.41
4:1E:39:PRO:HA	4:1E:43:GLY:CA	2.51	0.41
8:1I:77:LEU:HB3	8:1I:142:VAL:HG22	2.03	0.41
12:1Q:19:GLY:N	59:1Q:305:HOH:O	2.53	0.41
14:1S:85:VAL:HG11	14:1S:110:LEU:HD23	2.03	0.41
15:1T:107:ASP:OD1	59:1T:8102:HOH:O	2.22	0.41
21:1Z:15:PRO:O	21:1Z:19:ARG:HG2	2.21	0.41
22:10:78:TYR:N	22:10:78:TYR:CD1	2.88	0.41
32:1a:126:C:O2'	32:1a:258:A:H1'	2.21	0.41
32:1a:411:A:O2'	32:1a:412:G:H5'	2.20	0.41
32:1a:953:A:O4'	32:1a:1339:A:H2	2.03	0.41
32:1a:997:C:O2'	32:1a:998:C:H5'	2.20	0.41
32:1a:1134:A:O2'	32:1a:1135:A:O5'	2.39	0.41
32:1a:1199:C:H2'	32:1a:1200:C:O4'	2.20	0.41
32:1a:1311:A:N7	52:1u:7:ARG:NH2	2.61	0.41
32:1a:1391:A:H2'	32:1a:1392:C:H6	1.86	0.41
32:1a:1437:C:O2'	32:1a:1438:A:H5'	2.20	0.41
33:1b:31:TYR:O	33:1b:32:ILE:HG13	2.21	0.41
34:1c:34:LEU:O	34:1c:38:ARG:HG3	2.21	0.41
37:1f:15:ASP:OD1	37:1f:18:GLN:HG3	2.21	0.41
38:1g:74:GLU:HA	38:1g:141:VAL:HG12	2.03	0.41
40:1i:13:ALA:HA	40:1i:67:GLY:O	2.21	0.41
40:1i:28:VAL:HG13	40:1i:63:ILE:HG22	2.02	0.41
40:1i:48:GLU:O	40:1i:51:ARG:HB3	2.22	0.41
41:1j:39:PRO:HB3	41:1j:70:ARG:CZ	2.51	0.41
45:1n:4:LYS:CA	45:1n:7:ILE:HG12	2.38	0.41
46:1o:11:VAL:O	46:1o:12:ILE:C	2.64	0.41
47:1p:39:TYR:CE1	47:1p:73:LEU:HD11	2.56	0.41
50:1s:37:ARG:O	50:1s:70:LYS:HG3	2.20	0.41
51:1t:101:GLY:HA2	51:1t:102:GLY:HA2	1.76	0.41
1:2A:750:G:N3	1:2A:772:G:C2	2.89	0.41
1:2A:804:C:O2	1:2A:2002:A:H2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:893:U:H3'	1:2A:893:U:O2	2.21	0.41
1:2A:893:U:H5'	1:2A:894:G:OP2	2.21	0.41
1:2A:1016:G:OP2	1:2A:1018:G:H5"	2.21	0.41
1:2A:1362:A:H2'	1:2A:1363:C:C6	2.56	0.41
1:2A:1543:C:O4'	1:2A:1623:C:H4'	2.20	0.41
1:2A:1611:C:O2'	1:2A:1612:A:O5'	2.34	0.41
1:2A:1631:A:C2'	1:2A:1632:A:H5'	2.51	0.41
1:2A:1846:G:P	3:2D:37:LEU:HD11	2.60	0.41
1:2A:2035:A:OP2	59:2A:3884:HOH:O	2.22	0.41
1:2A:2040:A:O4'	16:2U:34:LYS:HD2	2.21	0.41
1:2A:2449:U:OP1	1:2A:2611:A:H5'	2.21	0.41
1:2A:2890:C:H2'	1:2A:2891:A:O4'	2.21	0.41
3:2D:186:HIS:CE1	3:2D:188:GLU:CG	3.03	0.41
3:2D:196:VAL:HG12	3:2D:197:GLY:N	2.36	0.41
3:2D:260:ARG:CZ	3:2D:264:LYS:HD3	2.51	0.41
5:2F:7:TYR:OH	5:2F:25:PRO:O	2.33	0.41
5:2F:32:LEU:O	5:2F:36:VAL:HG23	2.21	0.41
5:2F:125:LEU:HD21	5:2F:199:TRP:CE3	2.56	0.41
9:2N:87:LEU:C	9:2N:87:LEU:HD23	2.46	0.41
10:2O:102:VAL:HB	10:2O:106:LEU:CD1	2.51	0.41
13:2R:85:PRO:C	13:2R:87:TYR:N	2.79	0.41
18:2W:28:SER:O	18:2W:31:GLU:N	2.54	0.41
27:25:55:ARG:O	27:25:57:VAL:HG23	2.21	0.41
32:2a:7:G:H2'	36:2e:119:LEU:HD13	2.02	0.41
32:2a:38:U:P	43:2l:123:LYS:HD2	2.61	0.41
32:2a:181:C:H1'	51:2t:85:MET:CE	2.50	0.41
32:2a:181:C:O2	51:2t:85:MET:HE1	2.21	0.41
32:2a:783:G:C2'	32:2a:784:G:H5'	2.51	0.41
32:2a:1200:C:H2'	32:2a:1201:U:H6	1.83	0.41
33:2b:125:PRO:O	33:2b:127:ILE:HG13	2.20	0.41
33:2b:214:ILE:O	33:2b:215:LEU:C	2.64	0.41
38:2g:41:ARG:O	38:2g:45:ASP:HB2	2.21	0.41
38:2g:149:ARG:HG2	42:2k:59:TYR:CE1	2.55	0.41
39:2h:29:SER:HB3	39:2h:32:LYS:HB2	2.03	0.41
41:2j:56:HIS:C	41:2j:58:ASP:H	2.29	0.41
43:2l:110:VAL:HG21	43:2l:120:TYR:HB3	2.03	0.41
47:2p:6:LEU:HG	47:2p:17:TYR:HD2	1.86	0.41
51:2t:88:VAL:C	51:2t:90:GLN:N	2.79	0.41
1:1A:87:G:N2	1:1A:481:C:N4	2.68	0.40
1:1A:706:G:H5"	5:1F:99:TYR:CD2	2.56	0.40
1:1A:791:G:C2'	1:1A:792:A:H5'	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1228:G:H5'	25:13:29:ARG:HH11	1.85	0.40
1:1A:1433:G:H2'	1:1A:1434:G:H8	1.86	0.40
1:1A:1433:G:O2'	1:1A:1434:G:H5'	2.21	0.40
1:1A:1570:G:H2'	1:1A:1571:G:C8	2.56	0.40
1:1A:1706:C:O2'	1:1A:1707:G:H5'	2.21	0.40
1:1A:1708:C:O2	1:1A:2698:U:H5'	2.20	0.40
1:1A:1926:C:O2'	1:1A:1950:G:H1'	2.20	0.40
1:1A:2513:G:H5"	1:1A:2514:2MA:H5"	2.03	0.40
1:1A:2516:G:O6	1:1A:2587:G:H2'	2.21	0.40
1:1A:2518:C:H5"	1:1A:2584:C:N4	2.35	0.40
1:1A:2774:G:O2'	1:1A:2775:G:H5'	2.21	0.40
2:1B:79:C:H2'	2:1B:80:U:O4'	2.21	0.40
2:1B:105:A:O3'	21:1Z:89:PHE:CE1	2.73	0.40
4:1E:47:VAL:HG21	4:1E:86:PRO:CD	2.39	0.40
5:1F:102:PRO:O	5:1F:105:VAL:HB	2.22	0.40
7:1H:31:GLY:O	7:1H:79:VAL:HG12	2.21	0.40
14:1S:48:LEU:HD22	14:1S:82:ILE:HD11	2.01	0.40
16:1U:52:ARG:CA	16:1U:55:ARG:HG2	2.51	0.40
16:1U:60:LEU:O	16:1U:61:TRP:C	2.64	0.40
18:1W:43:GLY:O	18:1W:47:VAL:HG23	2.22	0.40
20:1Y:5:MET:HE2	20:1Y:35:TYR:CD1	2.56	0.40
22:10:23:VAL:HG22	22:10:38:VAL:HG22	2.03	0.40
22:10:51:VAL:HG22	22:10:81:VAL:HG23	2.03	0.40
26:14:50:VAL:HG13	26:14:51:ASP:N	2.36	0.40
32:1a:199:U:O2	32:1a:199:U:H2'	2.19	0.40
32:1a:251:G:O2'	32:1a:252:U:H5'	2.21	0.40
32:1a:272:G:O2'	32:1a:273:C:H5'	2.21	0.40
32:1a:552:G:N3	32:1a:552:G:H2'	2.36	0.40
32:1a:643:U:H2'	32:1a:644:G:H8	1.87	0.40
32:1a:1015:G:H2'	32:1a:1016:G:C4'	2.51	0.40
32:1a:1110:G:N1	32:1a:1128:C:N4	2.44	0.40
32:1a:1356:G:O3'	38:1g:31:MET:HE1	2.21	0.40
32:1a:1400:G:C6	32:1a:1460:G:C6	3.09	0.40
32:1a:1435:G:O2'	32:1a:1436:G:H5'	2.21	0.40
34:1c:123:GLN:O	34:1c:126:ARG:HB2	2.20	0.40
35:1d:174:LEU:N	35:1d:186:LEU:HD12	2.36	0.40
36:1e:36:ASP:OD1	36:1e:37:ARG:N	2.55	0.40
39:1h:100:ILE:HD11	39:1h:129:VAL:O	2.21	0.40
41:1j:51:ARG:HG2	41:1j:61:GLU:HB2	2.03	0.40
44:1m:32:GLU:O	44:1m:36:LYS:N	2.33	0.40
45:1n:13:THR:CG2	45:1n:14:PRO:HD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:1r:62:GLU:O	49:1r:63:GLN:C	2.65	0.40
1:2A:22:G:OP1	1:2A:528:U:N3	2.54	0.40
1:2A:319:C:H2'	1:2A:320:C:C6	2.53	0.40
1:2A:489:U:C4'	29:27:5:TRP:CZ3	3.04	0.40
1:2A:508:A:H2'	1:2A:509:C:H5'	2.03	0.40
1:2A:584:U:O2'	1:2A:585:G:OP2	2.31	0.40
1:2A:970:C:H2'	1:2A:971:A:C8	2.57	0.40
1:2A:1695:G:N3	13:2R:107:ASP:HB2	2.36	0.40
1:2A:1745:G:O6	1:2A:1793:G:H1'	2.21	0.40
1:2A:1906:A:C2'	1:2A:1907:C:H5'	2.51	0.40
1:2A:2118:C:H2'	1:2A:2119:U:C6	2.56	0.40
1:2A:2243:U:C2'	1:2A:2244:U:H5'	2.50	0.40
1:2A:2249:G:H2'	1:2A:2249:G:N3	2.36	0.40
1:2A:2315:G:H5'	6:2G:124:SER:HB2	2.02	0.40
1:2A:2330:G:H22	14:2S:3:ARG:CD	2.34	0.40
1:2A:2858:U:H4'	1:2A:2877:A:N1	2.36	0.40
3:2D:131:LEU:O	3:2D:190:TYR:HA	2.21	0.40
4:2E:104:VAL:O	4:2E:166:THR:HA	2.21	0.40
4:2E:176:ILE:HG23	4:2E:178:GLU:OE1	2.21	0.40
8:2I:77:LEU:CD1	8:2I:101:LEU:HG	2.51	0.40
10:2O:59:LYS:O	10:2O:86:ILE:HA	2.21	0.40
11:2P:59:LEU:HD23	11:2P:59:LEU:C	2.46	0.40
12:2Q:70:PRO:HA	12:2Q:94:VAL:O	2.21	0.40
13:2R:14:SER:OG	13:2R:15:SER:N	2.54	0.40
17:2V:12:TYR:HD2	17:2V:20:LEU:HD21	1.75	0.40
17:2V:99:ILE:O	17:2V:99:ILE:HG13	2.21	0.40
21:2Z:23:LYS:O	21:2Z:25:PRO:HD3	2.21	0.40
24:22:17:SER:N	24:22:20:GLU:OE1	2.44	0.40
26:24:58:ARG:HH21	50:2s:68:GLY:N	2.19	0.40
26:24:68:ARG:O	26:24:69:LYS:CB	2.69	0.40
32:2a:208:C:OP2	32:2a:208:C:H6	2.04	0.40
32:2a:421:G:H2'	32:2a:422:G:C5'	2.51	0.40
32:2a:902:C:O2	32:2a:1480:A:H2	2.04	0.40
32:2a:1041:G:H22	41:2j:53:PRO:HG3	1.86	0.40
32:2a:1043:C:H4'	41:2j:51:ARG:CB	2.51	0.40
32:2a:1071:G:H2'	32:2a:1072:G:H5'	2.02	0.40
32:2a:1111:C:HO2'	32:2a:1112:C:P	2.39	0.40
32:2a:1119:U:P	32:2a:1120:C:H5	2.44	0.40
32:2a:1370:G:H2'	32:2a:1371:C:H6	1.87	0.40
33:2b:163:PHE:CE1	33:2b:186:ALA:HA	2.56	0.40
34:2c:157:ILE:HD13	34:2c:166:GLU:CG	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:2e:26:PHE:O	36:2e:27:ARG:HB2	2.20	0.40
37:2f:37:VAL:HG12	37:2f:38:GLU:N	2.36	0.40
37:2f:73:ASN:O	37:2f:74:ASP:C	2.64	0.40
39:2h:90:GLY:O	43:2l:7:ILE:HG21	2.21	0.40
42:2k:50:TYR:CD2	42:2k:60:ALA:HB2	2.56	0.40
48:2q:6:LEU:HD23	48:2q:42:TYR:CE2	2.56	0.40
48:2q:74:LEU:CD2	48:2q:75:ARG:HB2	2.50	0.40
1:1A:434:G:O2'	1:1A:435:C:H5'	2.21	0.40
1:1A:559:C:H2'	1:1A:560:A:C8	2.56	0.40
1:1A:780:A:O2'	1:1A:1681:G:H4'	2.21	0.40
1:1A:820:A:H4'	1:1A:824:G:O4'	2.21	0.40
1:1A:997:A:C2'	1:1A:998:G:H5'	2.52	0.40
1:1A:1001:A:N1	1:1A:2469:G:H4'	2.36	0.40
1:1A:1096:G:H2'	1:1A:1097:C:C4'	2.51	0.40
1:1A:1261:C:H42	1:1A:1277:G:H1	1.68	0.40
1:1A:1674:U:H2'	1:1A:1675:G:C8	2.56	0.40
1:1A:1689:G:N2	1:1A:1690:C:H1'	2.37	0.40
1:1A:1719:U:O2'	1:1A:1720:G:H5'	2.22	0.40
1:1A:1726:U:H2'	1:1A:1727:G:O4'	2.21	0.40
1:1A:1857:C:H2'	1:1A:1858:G:H5'	2.02	0.40
1:1A:1928:G:H1	1:1A:1944:U:H3	1.69	0.40
1:1A:2050:G:C6	1:1A:2052:A:H5"	2.56	0.40
1:1A:2250:G:H5'	3:1D:251:GLY:HA2	2.03	0.40
1:1A:2268:U:C2'	1:1A:2269:C:H5'	2.52	0.40
1:1A:2274:C:H2'	1:1A:2275:C:O4'	2.21	0.40
1:1A:2438:C:H5'	1:1A:2440:G:H5'	2.02	0.40
1:1A:2564:G:H2'	1:1A:2565:U:C4'	2.52	0.40
3:1D:6:PHE:HD1	3:1D:6:PHE:N	2.20	0.40
6:1G:125:PHE:CG	6:1G:131:TYR:HD1	2.39	0.40
13:1R:45:ARG:HD3	13:1R:97:VAL:HG23	2.03	0.40
13:1R:63:ARG:HB2	13:1R:80:PHE:CE2	2.49	0.40
17:1V:65:GLY:C	17:1V:91:TYR:CE1	2.98	0.40
18:1W:18:ARG:HG3	18:1W:76:VAL:HB	2.03	0.40
18:1W:19:LEU:HB3	27:15:25:LEU:HD11	2.02	0.40
18:1W:79:GLY:HA3	18:1W:102:HIS:HE1	1.86	0.40
27:15:8:LYS:O	27:15:9:LYS:HD2	2.20	0.40
28:16:40:CYS:SG	28:16:42:TRP:HB2	2.62	0.40
32:1a:96:G:OP2	51:1t:14:LYS:NZ	2.53	0.40
32:1a:131:C:N4	32:1a:223:G:H1	2.16	0.40
32:1a:453:C:H2'	32:1a:454:G:C8	2.56	0.40
32:1a:495:C:N3	32:1a:524:G:N1	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:625:U:O2'	32:1a:626:A:OP2	2.32	0.40
32:1a:774:A:N1	32:1a:1475:G:H5"	2.36	0.40
32:1a:952:A:H8	32:1a:952:A:OP1	2.03	0.40
32:1a:955:A:N3	32:1a:955:A:C2'	2.84	0.40
32:1a:968:C:N4	32:1a:969:U:O4	2.54	0.40
32:1a:1294:G:N2	32:1a:1295:U:H1'	2.36	0.40
32:1a:1296:C:O2'	32:1a:1297:U:H5'	2.21	0.40
35:1d:113:SER:O	35:1d:116:GLN:N	2.53	0.40
36:1e:102:ALA:HB1	36:1e:106:PRO:HG2	2.02	0.40
38:1g:46:ALA:HB2	38:1g:117:ALA:O	2.21	0.40
40:1i:29:ASN:ND2	40:1i:64:THR:HA	2.36	0.40
43:1l:32:PHE:HD1	43:1l:85:ILE:O	2.04	0.40
44:1m:108:ARG:NH1	44:1m:114:ARG:HA	2.36	0.40
46:1o:68:ARG:O	46:1o:71:GLN:HB3	2.22	0.40
47:1p:51:VAL:HG12	47:1p:53:VAL:N	2.35	0.40
50:1s:33:THR:HG22	50:1s:49:ILE:HG22	2.03	0.40
1:2A:352:G:O4'	1:2A:502:A:H1'	2.20	0.40
1:2A:611:C:P	11:2P:16:ARG:HH12	2.44	0.40
1:2A:660:G:H2'	11:2P:115:LEU:HD13	2.04	0.40
1:2A:731:A:H1'	1:2A:734:U:O4	2.21	0.40
1:2A:782:C:N4	1:2A:806:G:H1	2.17	0.40
1:2A:1521:G:O2'	1:2A:1522:C:H5'	2.21	0.40
1:2A:1560:C:O2'	1:2A:1561:U:H5'	2.20	0.40
1:2A:1606:G:O2'	1:2A:1607:G:H5'	2.22	0.40
1:2A:1659:A:C2	18:2W:93:ALA:HB2	2.56	0.40
1:2A:2034:A:H2'	1:2A:2035:A:O4'	2.21	0.40
1:2A:2127:G:H3'	1:2A:2128:C:C5'	2.50	0.40
1:2A:2176:G:C2	1:2A:2177:G:H1'	2.56	0.40
1:2A:2254:U:O2'	1:2A:2255:U:H5'	2.22	0.40
1:2A:2315:G:OP1	6:2G:124:SER:HB3	2.20	0.40
1:2A:2323:U:O5'	1:2A:2323:U:H6	2.05	0.40
1:2A:2337:C:O2'	21:2Z:201:LYS:CE	2.69	0.40
1:2A:2385:C:H2'	1:2A:2386:G:C5'	2.51	0.40
1:2A:2613:A:C2	1:2A:2615:U:OP2	2.74	0.40
1:2A:2617:C:H2'	1:2A:2618:G:H5'	2.03	0.40
1:2A:2630:C:O2'	1:2A:2631:C:H5'	2.21	0.40
1:2A:2815:G:H2'	1:2A:2816:G:C8	2.45	0.40
1:2A:2894:C:H2'	1:2A:2895:G:O5'	2.20	0.40
59:2A:3711:HOH:O	18:2W:88:ARG:HA	2.20	0.40
3:2D:68:LYS:O	3:2D:70:TRP:CD1	2.74	0.40
3:2D:260:ARG:NH1	3:2D:264:LYS:HB3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:7:VAL:O	4:2E:7:VAL:HG13	2.20	0.40
6:2G:105:LYS:HE3	6:2G:143:GLU:OE2	2.21	0.40
7:2H:86:GLU:CG	7:2H:132:ARG:HG3	2.51	0.40
10:2O:61:VAL:HG12	10:2O:85:VAL:HB	2.03	0.40
10:2O:104:ARG:C	10:2O:106:LEU:N	2.79	0.40
13:2R:17:ARG:HA	13:2R:20:LEU:HB3	2.03	0.40
13:2R:108:GLY:HA3	18:2W:40:ASN:HD21	1.87	0.40
17:2V:65:GLY:C	17:2V:66:ARG:HG3	2.46	0.40
18:2W:10:VAL:HG13	18:2W:46:PHE:CD1	2.57	0.40
18:2W:19:LEU:C	27:25:25:LEU:HD12	2.46	0.40
21:2Z:6:LYS:O	21:2Z:6:LYS:HG3	2.22	0.40
24:22:2:LYS:O	24:22:5:GLU:HB2	2.20	0.40
26:24:10:VAL:O	26:24:25:TYR:HB3	2.21	0.40
32:2a:160:C:O2'	32:2a:161:G:H5'	2.21	0.40
32:2a:250:G:OP1	48:2q:66:SER:OG	2.37	0.40
32:2a:705:G:H4'	32:2a:706:A:O5'	2.20	0.40
32:2a:706:A:H5"	32:2a:706:A:N3	2.36	0.40
32:2a:725:G:C5'	46:2o:39:LEU:CD1	2.97	0.40
32:2a:738:C:C2'	32:2a:739:G:OP1	2.70	0.40
32:2a:897:A:O2'	32:2a:1063:A:N1	2.40	0.40
32:2a:1080:C:O2'	32:2a:1081:C:H5'	2.21	0.40
32:2a:1270:A:C3'	52:2u:10:ARG:HH12	2.33	0.40
32:2a:1272:G:H2'	32:2a:1273:G:H8	1.86	0.40
32:2a:1391:A:O2'	32:2a:1392:C:H5'	2.21	0.40
34:2c:59:ARG:HD3	34:2c:64:VAL:CB	2.52	0.40
34:2c:151:VAL:CG1	34:2c:198:VAL:HG13	2.51	0.40
35:2d:9:CYS:O	35:2d:12:CYS:HB2	2.22	0.40
35:2d:25:ARG:HD3	35:2d:30:LYS:O	2.21	0.40
35:2d:63:LYS:O	35:2d:67:ILE:HG13	2.21	0.40
39:2h:23:SER:O	39:2h:24:THR:CB	2.69	0.40
42:2k:104:GLN:O	42:2k:105:VAL:C	2.64	0.40
47:2p:27:LYS:O	47:2p:30:GLY:N	2.39	0.40
48:2q:66:SER:OG	48:2q:69:LYS:N	2.37	0.40
51:2t:58:LYS:O	51:2t:62:LEU:HD13	2.21	0.40
52:2u:6:ARG:C	52:2u:8:THR:H	2.29	0.40
1:1A:91:C:C2'	1:1A:92:G:H5'	2.50	0.40
1:1A:210:A:H3'	1:1A:447:U:H5"	2.04	0.40
1:1A:385:U:H6	1:1A:385:U:H2'	1.63	0.40
1:1A:648:C:H2'	1:1A:649:G:H5'	2.04	0.40
1:1A:1546:C:O2'	1:1A:1547:C:H5'	2.20	0.40
1:1A:1866:C:N4	1:1A:1925:G:H1	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2040:A:H4'	16:1U:27:LEU:HD12	2.03	0.40
1:1A:2168:G:H2'	1:1A:2169:G:C1'	2.50	0.40
1:1A:2390:G:H4'	14:1S:21:THR:HG22	2.04	0.40
3:1D:66:ASP:HB2	3:1D:103:ARG:HD3	2.02	0.40
3:1D:77:ALA:O	3:1D:116:GLN:HA	2.22	0.40
6:1G:36:LYS:HD3	6:1G:95:ARG:CZ	2.51	0.40
8:1I:38:LEU:CB	8:1I:40:THR:HG23	2.47	0.40
8:1I:115:ALA:HB3	8:1I:129:THR:OG1	2.20	0.40
15:1T:95:ARG:C	15:1T:96:ARG:HG2	2.46	0.40
16:1U:6:THR:HG21	16:1U:10:ARG:CZ	2.51	0.40
18:1W:32:ALA:O	18:1W:35:ILE:N	2.54	0.40
21:1Z:104:PHE:N	21:1Z:104:PHE:HD1	2.19	0.40
30:18:23:VAL:HG12	30:18:47:LYS:HB3	2.01	0.40
32:1a:403:G:C5'	35:1d:115:ARG:HG2	2.39	0.40
32:1a:624:A:O2'	32:1a:625:U:H5'	2.21	0.40
32:1a:666:G:H1	32:1a:692:C:N4	2.18	0.40
32:1a:901:A:H2'	32:1a:902:C:C6	2.54	0.40
32:1a:925:G:OP1	44:1m:108:ARG:HG3	2.22	0.40
32:1a:1015:G:C2'	32:1a:1016:G:O5'	2.68	0.40
32:1a:1109:U:HO2'	32:1a:1262:A:C2'	2.33	0.40
32:1a:1171:C:P	41:1j:51:ARG:HH22	2.43	0.40
32:1a:1192:C:O2'	32:1a:1193:U:H5'	2.22	0.40
32:1a:1216:C:C2'	32:1a:1217:U:H5'	2.52	0.40
32:1a:1223:G:H8	32:1a:1223:G:O5'	2.04	0.40
32:1a:1431:U:O2'	32:1a:1432:A:C8	2.74	0.40
32:1a:1491:A:H2'	32:1a:1492:C:C6	2.56	0.40
33:1b:149:LEU:O	33:1b:150:SER:C	2.65	0.40
36:1e:15:ARG:HD2	36:1e:26:PHE:CG	2.56	0.40
36:1e:37:ARG:HH12	36:1e:111:GLU:HG2	1.87	0.40
37:1f:94:GLN:NE2	49:1r:32:ARG:HD3	2.35	0.40
39:1h:6:ILE:O	39:1h:9:MET:HB3	2.22	0.40
40:1i:114:TYR:HD2	41:1j:60:ARG:HG2	1.86	0.40
44:1m:11:ARG:C	44:1m:13:LYS:H	2.30	0.40
44:1m:23:TYR:HB2	44:1m:67:GLU:OE2	2.21	0.40
44:1m:80:ARG:CG	44:1m:81:LEU:N	2.83	0.40
46:1o:82:ILE:HD12	46:1o:88:ARG:NE	2.33	0.40
48:1q:79:SER:OG	48:1q:80:GLY:N	2.54	0.40
1:2A:226:C:C1'	1:2A:631:A:H1'	2.41	0.40
1:2A:795:C:O2	1:2A:1663:A:H2'	2.22	0.40
1:2A:832:C:C2'	1:2A:833:U:H5'	2.51	0.40
1:2A:986:G:P	11:2P:39:LYS:HZ3	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1110:U:H1'	1:2A:1111:U:OP2	2.21	0.40
1:2A:1245:C:N4	1:2A:1289:G:H1	2.19	0.40
1:2A:1559:U:O2'	1:2A:1560:C:H5'	2.20	0.40
1:2A:1684:C:O2'	1:2A:1685:U:H5'	2.22	0.40
1:2A:1826:U:H2'	1:2A:1827:C:C6	2.56	0.40
1:2A:1847:G:C2'	1:2A:1848:U:H5'	2.52	0.40
1:2A:1887:G:O6	1:2A:1888:G:N1	2.54	0.40
1:2A:2051:A:H4'	1:2A:2052:A:C8	2.57	0.40
1:2A:2439:G:H5"	1:2A:2440:G:P	2.61	0.40
1:2A:2556:G:C2'	1:2A:2557:U:H5'	2.51	0.40
1:2A:2834:C:H2'	1:2A:2835:A:C5'	2.50	0.40
56:2A:3553:FSD:CAD	56:2A:3553:FSD:OAK	2.69	0.40
2:2B:89:G:N3	2:2B:89:G:H2'	2.36	0.40
3:2D:143:HIS:O	3:2D:192:THR:N	2.37	0.40
4:2E:107:THR:O	4:2E:190:GLY:HA2	2.22	0.40
4:2E:198:VAL:HB	59:2E:404:HOH:O	2.19	0.40
5:2F:126:VAL:HG23	5:2F:195:ASP:HA	2.03	0.40
5:2F:126:VAL:O	5:2F:196:LEU:HG	2.21	0.40
6:2G:98:ARG:O	6:2G:99:MET:C	2.64	0.40
7:2H:60:ARG:O	7:2H:64:LEU:HG	2.21	0.40
7:2H:87:LEU:C	7:2H:88:LEU:HD12	2.47	0.40
8:2I:38:LEU:O	8:2I:40:THR:HG23	2.20	0.40
12:2Q:34:LEU:O	12:2Q:103:MET:N	2.49	0.40
13:2R:8:ARG:HE	13:2R:43:GLU:HG2	1.85	0.40
17:2V:38:LEU:O	17:2V:39:LEU:HB2	2.21	0.40
19:2X:27:THR:CG2	19:2X:80:ILE:HG12	2.52	0.40
21:2Z:17:ALA:HA	21:2Z:20:ARG:HH21	1.84	0.40
21:2Z:193:GLU:HG2	21:2Z:194:PRO:CD	2.50	0.40
32:2a:125:A:OP2	48:2q:63:ARG:NE	2.54	0.40
32:2a:192:G:H2'	32:2a:193:G:H5'	2.02	0.40
32:2a:254:G:H1	32:2a:264:C:H42	1.68	0.40
32:2a:368:C:N4	32:2a:386:C:O2	2.54	0.40
32:2a:393:A:N7	32:2a:531:A:O2'	2.51	0.40
32:2a:633:G:O6	59:2a:1938:HOH:O	2.22	0.40
32:2a:718:G:N3	32:2a:718:G:H2'	2.37	0.40
32:2a:1152:A:N6	32:2a:1153:G:N3	2.70	0.40
32:2a:1224:C:H6	32:2a:1224:C:O5'	2.04	0.40
32:2a:1271:A:N6	32:2a:1354:G:HO2'	2.18	0.40
32:2a:1309:C:OP1	52:2u:20:LYS:N	2.54	0.40
32:2a:1494:G:N1	32:2a:1497:MA6:OP2	2.53	0.40
32:2a:1503:G:H2'	32:2a:1504:G:O4'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:56:ARG:O	33:2b:60:ASP:N	2.52	0.40
33:2b:189:ASP:O	33:2b:191:ASP:N	2.53	0.40
37:2f:15:ASP:OD1	37:2f:18:GLN:HB2	2.21	0.40
39:2h:116:LYS:HD3	39:2h:129:VAL:CG1	2.51	0.40
40:2i:24:GLY:HA2	40:2i:59:PHE:C	2.45	0.40
43:2l:115:LYS:O	43:2l:116:SER:C	2.64	0.40
50:2s:34:TRP:CD1	50:2s:52:TYR:CD2	3.07	0.40
50:2s:49:ILE:HG22	50:2s:51:VAL:CG2	2.51	0.40
1:1A:115:A:OP2	1:1A:116:A:H2'	2.21	0.40
1:1A:438:A:H2'	1:1A:439:C:H5'	2.04	0.40
1:1A:651:A:C6	11:1P:115:LEU:HD13	2.57	0.40
1:1A:1056:G:OP1	16:1U:75:ASN:HB2	2.21	0.40
1:1A:1147:C:C3'	1:1A:1148:A:H8	2.33	0.40
1:1A:1323:A:H8	1:1A:1323:A:O5'	2.04	0.40
1:1A:1469:G:H2'	1:1A:1470:G:O4'	2.20	0.40
1:1A:1903:C:O2'	1:1A:1904:G:H5'	2.21	0.40
1:1A:2111:G:H21	23:11:45:ASN:CG	2.30	0.40
1:1A:2118:C:C2'	1:1A:2119:U:H5'	2.52	0.40
1:1A:2741:G:C2'	1:1A:2742:C:H5'	2.50	0.40
3:1D:121:PRO:HB3	3:1D:135:PHE:CE2	2.57	0.40
4:1E:33:VAL:HG22	4:1E:89:ASP:C	2.46	0.40
4:1E:138:PRO:HG2	4:1E:139:GLY:H	1.87	0.40
5:1F:58:ALA:C	5:1F:59:TYR:HD1	2.29	0.40
7:1H:16:SER:OG	7:1H:27:LYS:HB2	2.21	0.40
14:1S:66:ALA:O	14:1S:69:VAL:HG22	2.21	0.40
18:1W:14:PRO:HA	18:1W:17:VAL:HG22	2.02	0.40
21:1Z:75:ASN:C	21:1Z:76:LEU:HD12	2.46	0.40
21:1Z:99:TYR:HA	21:1Z:124:ILE:O	2.21	0.40
26:14:58:ARG:O	50:1s:67:VAL:HB	2.22	0.40
32:1a:18:U:C2'	32:1a:19:C:H5'	2.50	0.40
32:1a:343:G:OP2	55:1a:1900:MPD:H51	2.22	0.40
32:1a:407:A:OP1	35:1d:30:LYS:NZ	2.51	0.40
32:1a:485:C:H1'	32:1a:533:C:H1'	2.03	0.40
32:1a:647:A:HO2'	32:1a:648:G:H5'	1.85	0.40
32:1a:971:G:N3	32:1a:971:G:C2'	2.85	0.40
32:1a:1200:C:H2'	32:1a:1201:U:C5	2.57	0.40
32:1a:1222:U:P	38:1g:116:ALA:HB2	2.61	0.40
32:1a:1307:C:C4'	52:1u:17:THR:HG21	2.51	0.40
32:1a:1308:C:H5"	52:1u:12:LYS:NZ	2.36	0.40
32:1a:1331:A:H2'	32:1a:1332:A:C5'	2.51	0.40
33:1b:16:HIS:O	33:1b:17:PHE:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:187:LEU:HD12	33:1b:214:ILE:HG13	2.02	0.40
34:1c:173:VAL:HG12	34:1c:173:VAL:O	2.21	0.40
35:1d:20:TYR:N	35:1d:20:TYR:CD1	2.86	0.40
36:1e:36:ASP:O	36:1e:37:ARG:CB	2.69	0.40
37:1f:36:ARG:O	37:1f:65:VAL:HB	2.21	0.40
38:1g:18:TYR:CD2	38:1g:59:LEU:HB2	2.57	0.40
45:1n:16:PHE:HD1	45:1n:16:PHE:N	2.13	0.40
46:1o:15:PHE:CZ	46:1o:85:LEU:HD21	2.57	0.40
48:1q:3:LYS:HB3	48:1q:60:ILE:CG1	2.52	0.40
48:1q:52:LYS:HG2	48:1q:53:LEU:N	2.35	0.40
49:1r:85:LEU:HD23	49:1r:86:VAL:N	2.37	0.40
51:1t:30:LYS:HB3	51:1t:34:LYS:HZ1	1.86	0.40
1:2A:10:G:C2'	1:2A:11:U:C5'	2.97	0.40
1:2A:30:C:H2'	1:2A:31:C:H5'	2.04	0.40
1:2A:251:C:O2'	1:2A:252:C:H5'	2.22	0.40
1:2A:606:C:OP2	16:2U:10:ARG:NH2	2.55	0.40
1:2A:705:C:H4'	5:2F:100:THR:O	2.21	0.40
1:2A:792:A:H2'	1:2A:2623:C:H5"	2.03	0.40
1:2A:823:A:H2'	1:2A:824:G:C8	2.55	0.40
1:2A:917:U:H2'	1:2A:918:A:N7	2.36	0.40
1:2A:921:G:H2'	1:2A:922:C:C6	2.55	0.40
1:2A:1409:G:O5'	23:21:3:LYS:HG3	2.22	0.40
1:2A:1490:A:O2'	1:2A:1491:C:H5'	2.22	0.40
1:2A:1614:G:O2'	1:2A:1615:A:OP2	2.29	0.40
1:2A:1874:C:O2'	1:2A:1875:G:H5'	2.22	0.40
1:2A:1976:U:O2'	1:2A:1977:U:H5'	2.21	0.40
1:2A:2127:G:H3'	1:2A:2128:C:C4'	2.51	0.40
1:2A:2145:G:C6	1:2A:2146:G:H1'	2.56	0.40
1:2A:2252:A:O2'	1:2A:2253:G:H5'	2.22	0.40
1:2A:2271:C:O2'	1:2A:2399:A:O2'	1.99	0.40
1:2A:2415:C:O3'	11:2P:77:ARG:NH2	2.55	0.40
1:2A:2530:U:H6	1:2A:2530:U:O5'	2.04	0.40
1:2A:2749:G:N2	1:2A:2779:C:N3	2.62	0.40
2:2B:50:G:P	14:2S:63:THR:HG1	2.42	0.40
5:2F:195:ASP:O	5:2F:198:ALA:HB3	2.21	0.40
6:2G:64:THR:HB	6:2G:94:LEU:HD21	2.03	0.40
8:2I:57:ARG:O	8:2I:61:ARG:NH1	2.54	0.40
11:2P:20:GLY:HA2	11:2P:28:GLY:HA2	2.03	0.40
11:2P:90:ARG:CG	11:2P:91:PHE:HD1	2.35	0.40
12:2Q:15:GLY:O	12:2Q:16:ARG:HG2	2.21	0.40
19:2X:29:TRP:HZ3	19:2X:59:VAL:HG21	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2X:55:ASN:HB2	19:2X:80:ILE:HB	2.04	0.40
30:28:52:LYS:N	30:28:53:PRO:HD2	2.37	0.40
32:2a:676:U:H5	42:2k:26:ASN:OD1	2.05	0.40
32:2a:981:G:N3	32:2a:982:G:C8	2.90	0.40
32:2a:1221:A:O2'	38:2g:114:ARG:O	2.33	0.40
32:2a:1230:A:O2'	32:2a:1231:C:H5'	2.22	0.40
32:2a:1405:G:H1	32:2a:1456:C:H42	1.70	0.40
33:2b:84:GLU:HG3	33:2b:215:LEU:CB	2.51	0.40
34:2c:7:PRO:HG3	34:2c:201:TYR:CE1	2.57	0.40
35:2d:11:LEU:HD23	35:2d:66:ARG:HB3	2.03	0.40
35:2d:127:THR:HG1	35:2d:131:ARG:C	2.18	0.40
35:2d:150:GLU:CG	35:2d:151:LYS:N	2.84	0.40
37:2f:3:ARG:O	37:2f:93:SER:N	2.55	0.40
37:2f:70:ASP:C	37:2f:71:ARG:HG3	2.46	0.40
38:2g:59:LEU:CD1	38:2g:63:LYS:HE2	2.51	0.40
39:2h:92:ARG:HD3	39:2h:92:ARG:HA	1.90	0.40
40:2i:9:ARG:O	40:2i:10:ARG:CB	2.68	0.40
42:2k:18:ARG:HB2	42:2k:33:THR:HG1	1.84	0.40
42:2k:28:THR:HG21	42:2k:61:ALA:CB	2.51	0.40
44:2m:51:ALA:CA	44:2m:54:VAL:HG22	2.50	0.40
44:2m:57:ARG:O	44:2m:61:GLU:HG2	2.22	0.40
47:2p:53:VAL:HG13	47:2p:79:VAL:HA	2.03	0.40
48:2q:75:ARG:HG2	48:2q:76:LEU:N	2.37	0.40
1:1A:20:A:C2'	1:1A:21:C:H5'	2.52	0.40
1:1A:799:C:H3'	59:1A:3959:HOH:O	2.21	0.40
1:1A:1007:U:H2'	1:1A:1008:C:C6	2.56	0.40
1:1A:1184:C:C2'	1:1A:1185:U:H5'	2.51	0.40
1:1A:1254:A:C4'	1:1A:1255:U:OP2	2.69	0.40
1:1A:1711:A:O2'	1:1A:1712:G:H5'	2.20	0.40
1:1A:1944:U:O2'	1:1A:1945:C:H5'	2.21	0.40
1:1A:2134:U:C4	1:1A:2189:G:H4'	2.56	0.40
1:1A:2171:U:H2'	1:1A:2172:G:H8	1.87	0.40
1:1A:2322:A:C2	6:1G:44:GLY:HA3	2.57	0.40
1:1A:2571:C:C2'	1:1A:2572:A:H5'	2.51	0.40
1:1A:2805:G:H2'	1:1A:2806:C:H5'	2.02	0.40
55:1A:3800:MPD:H4	55:1A:3800:MPD:HM1	1.66	0.40
3:1D:159:ALA:C	3:1D:161:THR:N	2.80	0.40
6:1G:53:LEU:HD12	6:1G:53:LEU:C	2.46	0.40
10:1O:36:GLY:CA	10:1O:106:LEU:HD23	2.50	0.40
12:1Q:78:PRO:O	12:1Q:79:LEU:HD22	2.22	0.40
12:1Q:135:ASP:HB3	12:1Q:137:TYR:HD2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1R:28:LEU:C	13:1R:30:THR:H	2.28	0.40
21:1Z:23:LYS:CB	21:1Z:38:TYR:CD2	3.05	0.40
21:1Z:89:PHE:O	21:1Z:91:LEU:N	2.55	0.40
32:1a:13:U:H4'	32:1a:510:C:O2'	2.21	0.40
32:1a:249:U:O2'	32:1a:250:G:H5'	2.22	0.40
32:1a:512:C:H5'	32:1a:513:G:OP2	2.22	0.40
32:1a:748:C:H2'	32:1a:749:G:O4'	2.22	0.40
32:1a:1194:U:H5"	32:1a:1195:A:O5'	2.22	0.40
32:1a:1287:G:H22	32:1a:1313:G:C1'	2.35	0.40
32:1a:1331:A:H62	32:1a:1356:G:H21	1.69	0.40
32:1a:1433:C:H2'	32:1a:1434:G:OP2	2.21	0.40
33:1b:74:LYS:NZ	33:1b:205:ASP:O	2.48	0.40
33:1b:92:TYR:HD1	33:1b:151:GLY:CA	2.34	0.40
33:1b:103:THR:CG2	33:1b:176:GLU:HG2	2.51	0.40
33:1b:231:GLU:CB	33:1b:232:PRO:HD3	2.43	0.40
35:1d:68:TYR:HE2	35:1d:97:LEU:HB3	1.86	0.40
36:1e:139:LEU:HA	36:1e:142:LEU:HG	2.02	0.40
37:1f:62:TRP:O	37:1f:63:TYR:HD1	2.05	0.40
38:1g:30:ILE:CG2	38:1g:39:ALA:HA	2.52	0.40
38:1g:75:VAL:CG1	38:1g:145:ALA:HA	2.52	0.40
40:1i:5:TYR:HD1	40:1i:18:PHE:CD1	2.39	0.40
40:1i:43:ALA:C	40:1i:45:ALA:N	2.80	0.40
43:1l:92:0TD:C	43:1l:94:PRO:HD3	2.51	0.40
45:1n:23:ARG:HH11	45:1n:30:ALA:HA	1.86	0.40
45:1n:33:VAL:HA	45:1n:39:LEU:O	2.21	0.40
46:1o:82:ILE:HG13	46:1o:83:GLU:H	1.85	0.40
47:1p:55:ARG:O	47:1p:58:TYR:N	2.55	0.40
51:1t:57:ARG:NH2	51:1t:100:ILE:HD12	2.37	0.40
1:2A:184:A:OP2	1:2A:239:A:H4'	2.21	0.40
1:2A:261:C:H42	1:2A:282:G:N2	2.20	0.40
1:2A:514:G:H1'	1:2A:1329:A:C5	2.57	0.40
1:2A:1049:C:N4	1:2A:1196:G:H1	2.18	0.40
1:2A:1093:A:C6	1:2A:1156:A:N3	2.90	0.40
1:2A:1151:G:H2'	1:2A:1152:G:H8	1.86	0.40
1:2A:1173:A:O4'	1:2A:2527:G:O2'	2.40	0.40
1:2A:1389:G:H4'	1:2A:1429:A:C6	2.57	0.40
1:2A:1429:A:O2'	1:2A:1449:C:H1'	2.21	0.40
1:2A:1483:U:C2'	1:2A:1484:A:H5'	2.52	0.40
1:2A:1542:U:O2	1:2A:1542:U:H2'	2.21	0.40
1:2A:1651:G:H5"	1:2A:1652:C:OP1	2.22	0.40
1:2A:1783:G:H5"	15:2T:95:ARG:HD3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1820:C:O3'	1:2A:1821:A:O4'	2.39	0.40
1:2A:1825:C:O2	3:2D:255:LYS:NZ	2.49	0.40
1:2A:2032:U:H2'	1:2A:2033:G:C5'	2.49	0.40
1:2A:2120:U:H3	1:2A:2211:G:H1	0.60	0.40
1:2A:2192:A:C4	1:2A:2193:U:C4	3.09	0.40
1:2A:2496:G:O3'	12:2Q:126:PRO:HB3	2.22	0.40
3:2D:145:VAL:HG22	3:2D:191:ALA:HB2	2.04	0.40
3:2D:226:MET:SD	3:2D:231:HIS:HB2	2.62	0.40
6:2G:5:VAL:CG2	6:2G:8:LYS:HB2	2.52	0.40
6:2G:115:ARG:HD3	6:2G:136:ARG:HH21	1.86	0.40
8:2I:40:THR:OG1	8:2I:41:GLU:N	2.52	0.40
9:2N:27:ALA:O	9:2N:28:THR:C	2.64	0.40
10:2O:111:PHE:O	10:2O:114:ILE:N	2.45	0.40
11:2P:86:LYS:HG3	11:2P:87:ASP:H	1.86	0.40
17:2V:69:LYS:HG2	17:2V:70:ILE:N	2.36	0.40
18:2W:29:LEU:O	18:2W:33:ARG:HB2	2.21	0.40
20:2Y:87:LYS:HD2	20:2Y:87:LYS:N	2.37	0.40
21:2Z:77:ASP:O	21:2Z:80:ARG:N	2.55	0.40
24:22:68:ARG:C	24:22:70:GLN:N	2.80	0.40
29:27:34:ARG:CB	29:27:42:LEU:HD22	2.50	0.40
30:28:38:GLY:O	30:28:42:ARG:HB2	2.21	0.40
32:2a:265:C:O2'	32:2a:266:A:H5'	2.22	0.40
32:2a:494:A:H5"	32:2a:495:C:OP2	2.21	0.40
32:2a:844:C:O5'	32:2a:844:C:H6	2.04	0.40
32:2a:1146:C:N4	32:2a:1155:G:H1	2.19	0.40
32:2a:1260:U:C3'	32:2a:1261:A:H5'	2.52	0.40
32:2a:1334:C:N4	32:2a:1353:G:H1	2.16	0.40
32:2a:1470:A:C5'	43:2l:47:LYS:HG3	2.52	0.40
33:2b:30:ARG:HH22	33:2b:194:PRO:HB2	1.86	0.40
33:2b:158:LEU:HD12	33:2b:159:PRO:HD2	2.02	0.40
34:2c:182:ILE:CG1	34:2c:203:PHE:HA	2.38	0.40
37:2f:19:LEU:HD23	37:2f:19:LEU:O	2.21	0.40
42:2k:48:ILE:HG21	42:2k:63:LEU:CB	2.51	0.40
43:2l:90:VAL:O	43:2l:91:LYS:C	2.64	0.40
45:2n:40:CYS:O	45:2n:41:ARG:C	2.64	0.40
48:2q:85:VAL:O	48:2q:86:GLU:C	2.65	0.40
48:2q:90:ILE:O	48:2q:94:ASN:N	2.50	0.40
49:2r:22:VAL:HG11	49:2r:43:PHE:CE1	2.55	0.40
50:2s:45:VAL:HG13	50:2s:63:THR:HA	2.03	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)
8:1I:91:SER:OG	32:2a:364:U:OP1[3_654]	2.01	0.19
1:2A:384:G:O2'	32:2a:83:U:O4[3_754]	2.05	0.15
59:1A:5615:HOH:O	59:1V:322:HOH:O[4_445]	2.08	0.12
32:1a:364:U:OP1	8:2I:91:SER:OG[2_655]	2.08	0.12
1:2A:384:G:N2	32:2a:83:U:O2[3_754]	2.10	0.10

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	1D	273/275 (99%)	222 (81%)	39 (14%)	12 (4%)	2 10
3	2D	273/275 (99%)	222 (81%)	46 (17%)	5 (2%)	6 25
4	1E	202/204 (99%)	170 (84%)	29 (14%)	3 (2%)	8 29
4	2E	202/204 (99%)	166 (82%)	31 (15%)	5 (2%)	4 19
5	1F	201/203 (99%)	173 (86%)	23 (11%)	5 (2%)	4 19
5	2F	201/203 (99%)	163 (81%)	33 (16%)	5 (2%)	4 19
6	1G	179/181 (99%)	137 (76%)	34 (19%)	8 (4%)	2 10
6	2G	179/181 (99%)	124 (69%)	43 (24%)	12 (7%)	1 5
7	1H	172/174 (99%)	144 (84%)	23 (13%)	5 (3%)	3 17
7	2H	171/174 (98%)	134 (78%)	27 (16%)	10 (6%)	1 7
8	1I	145/147 (99%)	119 (82%)	15 (10%)	11 (8%)	1 4
8	2I	144/147 (98%)	110 (76%)	24 (17%)	10 (7%)	1 5
9	1N	138/140 (99%)	118 (86%)	17 (12%)	3 (2%)	5 21
9	2N	138/140 (99%)	116 (84%)	15 (11%)	7 (5%)	1 9
10	1O	120/122 (98%)	98 (82%)	19 (16%)	3 (2%)	4 19
10	2O	120/122 (98%)	92 (77%)	22 (18%)	6 (5%)	1 9
11	1P	147/149 (99%)	129 (88%)	15 (10%)	3 (2%)	6 23
11	2P	147/149 (99%)	113 (77%)	28 (19%)	6 (4%)	2 11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
12	1Q	139/141 (99%)	114 (82%)	17 (12%)	8 (6%)	1 7
12	2Q	139/141 (99%)	114 (82%)	22 (16%)	3 (2%)	5 21
13	1R	116/118 (98%)	95 (82%)	17 (15%)	4 (3%)	3 14
13	2R	116/118 (98%)	87 (75%)	20 (17%)	9 (8%)	1 3
14	1S	108/110 (98%)	85 (79%)	20 (18%)	3 (3%)	4 17
14	2S	108/110 (98%)	85 (79%)	20 (18%)	3 (3%)	4 17
15	1T	129/131 (98%)	99 (77%)	24 (19%)	6 (5%)	2 10
15	2T	129/131 (98%)	104 (81%)	23 (18%)	2 (2%)	7 28
16	1U	114/116 (98%)	99 (87%)	15 (13%)	0	100 100
16	2U	114/116 (98%)	89 (78%)	21 (18%)	4 (4%)	3 14
17	1V	99/101 (98%)	84 (85%)	12 (12%)	3 (3%)	3 16
17	2V	99/101 (98%)	80 (81%)	17 (17%)	2 (2%)	6 23
18	1W	110/112 (98%)	96 (87%)	11 (10%)	3 (3%)	4 18
18	2W	110/112 (98%)	80 (73%)	18 (16%)	12 (11%)	0 2
19	1X	93/95 (98%)	77 (83%)	13 (14%)	3 (3%)	3 15
19	2X	93/95 (98%)	80 (86%)	9 (10%)	4 (4%)	2 10
20	1Y	105/107 (98%)	95 (90%)	6 (6%)	4 (4%)	2 13
20	2Y	105/107 (98%)	85 (81%)	17 (16%)	3 (3%)	3 17
21	1Z	201/203 (99%)	161 (80%)	28 (14%)	12 (6%)	1 6
21	2Z	199/203 (98%)	148 (74%)	38 (19%)	13 (6%)	1 5
22	10	75/77 (97%)	61 (81%)	11 (15%)	3 (4%)	2 11
22	20	75/77 (97%)	58 (77%)	15 (20%)	2 (3%)	4 18
23	11	95/97 (98%)	80 (84%)	13 (14%)	2 (2%)	5 22
23	21	95/97 (98%)	84 (88%)	9 (10%)	2 (2%)	5 22
24	12	68/70 (97%)	55 (81%)	10 (15%)	3 (4%)	2 10
24	22	68/70 (97%)	51 (75%)	13 (19%)	4 (6%)	1 7
25	13	57/59 (97%)	51 (90%)	5 (9%)	1 (2%)	6 25
25	23	57/59 (97%)	47 (82%)	9 (16%)	1 (2%)	6 25
26	14	67/69 (97%)	48 (72%)	14 (21%)	5 (8%)	1 4
26	24	67/69 (97%)	45 (67%)	18 (27%)	4 (6%)	1 6
27	15	57/59 (97%)	49 (86%)	8 (14%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
27	25	57/59 (97%)	47 (82%)	10 (18%)	0	100 100
28	16	51/53 (96%)	41 (80%)	8 (16%)	2 (4%)	2 12
28	26	51/53 (96%)	44 (86%)	7 (14%)	0	100 100
29	17	46/48 (96%)	37 (80%)	7 (15%)	2 (4%)	2 10
29	27	46/48 (96%)	33 (72%)	13 (28%)	0	100 100
30	18	62/64 (97%)	57 (92%)	4 (6%)	1 (2%)	7 28
30	28	62/64 (97%)	54 (87%)	8 (13%)	0	100 100
31	19	35/37 (95%)	33 (94%)	2 (6%)	0	100 100
31	29	35/37 (95%)	27 (77%)	7 (20%)	1 (3%)	3 17
33	1b	229/231 (99%)	164 (72%)	35 (15%)	30 (13%)	0 1
33	2b	229/231 (99%)	162 (71%)	48 (21%)	19 (8%)	0 3
34	1c	204/206 (99%)	161 (79%)	34 (17%)	9 (4%)	2 10
34	2c	204/206 (99%)	153 (75%)	40 (20%)	11 (5%)	1 8
35	1d	206/208 (99%)	157 (76%)	38 (18%)	11 (5%)	1 8
35	2d	206/208 (99%)	161 (78%)	39 (19%)	6 (3%)	3 17
36	1e	146/148 (99%)	121 (83%)	17 (12%)	8 (6%)	1 7
36	2e	146/148 (99%)	116 (80%)	24 (16%)	6 (4%)	2 11
37	1f	98/100 (98%)	75 (76%)	20 (20%)	3 (3%)	3 16
37	2f	98/100 (98%)	75 (76%)	21 (21%)	2 (2%)	6 23
38	1g	153/155 (99%)	120 (78%)	29 (19%)	4 (3%)	4 18
38	2g	153/155 (99%)	121 (79%)	23 (15%)	9 (6%)	1 7
39	1h	135/137 (98%)	104 (77%)	23 (17%)	8 (6%)	1 7
39	2h	135/137 (98%)	102 (76%)	23 (17%)	10 (7%)	1 4
40	1i	125/127 (98%)	92 (74%)	29 (23%)	4 (3%)	3 15
40	2i	124/127 (98%)	95 (77%)	21 (17%)	8 (6%)	1 5
41	1j	95/97 (98%)	72 (76%)	16 (17%)	7 (7%)	1 4
41	2j	94/97 (97%)	74 (79%)	15 (16%)	5 (5%)	1 8
42	1k	112/114 (98%)	86 (77%)	20 (18%)	6 (5%)	1 8
42	2k	112/114 (98%)	82 (73%)	24 (21%)	6 (5%)	1 8
43	1l	119/122 (98%)	92 (77%)	20 (17%)	7 (6%)	1 7
43	2l	119/122 (98%)	94 (79%)	22 (18%)	3 (2%)	4 19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
44	1m	114/116 (98%)	89 (78%)	21 (18%)	4 (4%)	3 14
44	2m	112/116 (97%)	82 (73%)	24 (21%)	6 (5%)	1 8
45	1n	58/60 (97%)	45 (78%)	11 (19%)	2 (3%)	3 14
45	2n	58/60 (97%)	43 (74%)	9 (16%)	6 (10%)	0 2
46	1o	86/88 (98%)	57 (66%)	18 (21%)	11 (13%)	0 1
46	2o	86/88 (98%)	56 (65%)	22 (26%)	8 (9%)	0 2
47	1p	80/82 (98%)	66 (82%)	12 (15%)	2 (2%)	4 19
47	2p	80/82 (98%)	64 (80%)	12 (15%)	4 (5%)	1 9
48	1q	97/99 (98%)	75 (77%)	19 (20%)	3 (3%)	3 16
48	2q	97/99 (98%)	85 (88%)	9 (9%)	3 (3%)	3 16
49	1r	66/68 (97%)	49 (74%)	11 (17%)	6 (9%)	0 2
49	2r	66/68 (97%)	50 (76%)	11 (17%)	5 (8%)	1 4
50	1s	81/83 (98%)	58 (72%)	22 (27%)	1 (1%)	10 34
50	2s	81/83 (98%)	64 (79%)	12 (15%)	5 (6%)	1 6
51	1t	94/98 (96%)	76 (81%)	13 (14%)	5 (5%)	1 8
51	2t	96/98 (98%)	68 (71%)	18 (19%)	10 (10%)	0 2
52	1u	21/23 (91%)	19 (90%)	1 (5%)	1 (5%)	2 10
52	2u	21/23 (91%)	15 (71%)	4 (19%)	2 (10%)	0 2
All	All	11440/11648 (98%)	9049 (79%)	1872 (16%)	519 (4%)	2 10

All (519) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	1D	22	SER
3	1D	127	VAL
6	1G	49	ASP
6	1G	52	ILE
6	1G	110	ALA
7	1H	92	ILE
9	1N	23	LEU
12	1Q	59	ARG
12	1Q	78	PRO
15	1T	55	ASN
19	1X	40	LYS
19	1X	94	GLY
21	1Z	90	VAL

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Mol	Chain	Res	Type
33	1b	10	LEU
33	1b	17	PHE
33	1b	21	ARG
33	1b	35	GLU
33	1b	124	SER
33	1b	125	PRO
33	1b	135	GLN
33	1b	136	VAL
33	1b	190	THR
33	1b	194	PRO
33	1b	195	ASP
35	1d	5	ILE
35	1d	59	ARG
35	1d	60	GLU
35	1d	61	LYS
35	1d	177	ASP
36	1e	98	THR
36	1e	125	SER
39	1h	54	ASP
41	1j	77	PRO
43	1l	91	LYS
46	1o	80	ALA
49	1r	66	LEU
51	1t	95	ALA
4	2E	28	ALA
4	2E	52	LEU
5	2F	54	ARG
5	2F	130	ALA
6	2G	48	GLU
6	2G	78	SER
6	2G	133	LEU
7	2H	159	GLU
8	2I	10	GLU
8	2I	40	THR
9	2N	23	LEU
9	2N	30	ILE
16	2U	9	VAL
18	2W	15	ARG
18	2W	33	ARG
21	2Z	31	ARG
21	2Z	34	ASN
24	22	47	ASN

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Mol	Chain	Res	Type
25	23	52	HIS
26	24	61	ARG
33	2b	16	HIS
33	2b	17	PHE
33	2b	95	GLN
33	2b	126	GLU
33	2b	181	PHE
33	2b	231	GLU
36	2e	105	VAL
37	2f	66	GLU
38	2g	4	ARG
38	2g	116	ALA
38	2g	117	ALA
39	2h	83	ILE
40	2i	10	ARG
40	2i	54	ASP
41	2j	75	ILE
41	2j	89	ASP
42	2k	45	GLY
42	2k	117	ASN
44	2m	23	TYR
46	2o	6	GLU
46	2o	36	ILE
49	2r	36	ASN
49	2r	66	LEU
50	2s	27	GLU
51	2t	100	ILE
3	1D	31	LYS
3	1D	160	GLY
5	1F	17	ARG
5	1F	60	SER
5	1F	130	ALA
6	1G	43	LEU
6	1G	109	VAL
7	1H	100	GLY
8	1I	40	THR
8	1I	42	SER
8	1I	62	LYS
8	1I	103	ARG
10	1O	45	GLU
11	1P	15	ARG
12	1Q	13	GLN

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Mol	Chain	Res	Type
12	1Q	51	ARG
12	1Q	110	THR
13	1R	58	GLY
15	1T	68	TYR
15	1T	127	ALA
17	1V	53	GLU
18	1W	15	ARG
18	1W	40	ASN
19	1X	67	GLY
20	1Y	51	VAL
21	1Z	11	GLU
21	1Z	120	ILE
25	13	13	ILE
26	14	44	THR
26	14	45	GLY
26	14	47	GLN
26	14	60	GLN
28	16	13	CYS
33	1b	12	GLU
33	1b	45	GLN
33	1b	161	ALA
33	1b	208	ILE
33	1b	231	GLU
34	1c	3	ASN
34	1c	60	ALA
34	1c	98	ASN
34	1c	156	ARG
35	1d	3	ARG
35	1d	4	TYR
35	1d	101	LEU
35	1d	166	LYS
36	1e	85	GLY
37	1f	40	VAL
38	1g	4	ARG
41	1j	55	LYS
41	1j	93	GLY
42	1k	117	ASN
46	1o	49	ASP
46	1o	79	ARG
46	1o	81	LEU
48	1q	33	GLY
49	1r	62	GLU

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Mol	Chain	Res	Type
49	1r	67	ALA
51	1t	94	ALA
52	1u	7	ARG
4	2E	144	ARG
6	2G	120	LEU
7	2H	47	GLU
8	2I	39	ALA
10	2O	29	ASN
10	2O	45	GLU
12	2Q	59	ARG
13	2R	58	GLY
14	2S	9	ARG
17	2V	53	GLU
18	2W	71	VAL
18	2W	98	LYS
18	2W	111	HIS
20	2Y	58	GLY
20	2Y	84	ARG
21	2Z	78	LYS
21	2Z	156	LYS
21	2Z	169	GLU
21	2Z	188	ALA
23	21	3	LYS
24	22	32	LEU
26	24	49	PHE
31	29	12	ASP
33	2b	165	VAL
33	2b	188	ALA
33	2b	214	ILE
34	2c	99	VAL
35	2d	105	VAL
37	2f	65	VAL
38	2g	55	GLY
39	2h	24	THR
39	2h	133	LEU
39	2h	134	ILE
40	2i	121	ARG
42	2k	106	LYS
43	2l	41	ARG
44	2m	48	LEU
44	2m	67	GLU
45	2n	3	ARG

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Mol	Chain	Res	Type
45	2n	56	VAL
46	2o	8	LYS
46	2o	28	GLN
47	2p	19	ILE
47	2p	48	TRP
48	2q	33	GLY
49	2r	74	ARG
51	2t	9	ASN
51	2t	63	ILE
52	2u	13	ILE
3	1D	14	ARG
3	1D	241	PRO
4	1E	178	GLU
5	1F	207	GLY
6	1G	117	PHE
7	1H	82	GLY
7	1H	96	ALA
8	1I	72	LEU
8	1I	116	LEU
13	1R	8	ARG
14	1S	61	ASN
20	1Y	78	ALA
20	1Y	90	LEU
21	1Z	66	SER
21	1Z	183	LEU
22	10	48	GLY
23	11	3	LYS
24	12	50	ILE
24	12	69	ARG
26	14	49	PHE
30	18	17	THR
33	1b	13	ALA
33	1b	34	ALA
33	1b	126	GLU
33	1b	209	ARG
36	1e	121	LYS
37	1f	62	TRP
39	1h	51	VAL
39	1h	77	GLU
42	1k	96	ARG
42	1k	102	GLY
43	1l	51	ALA

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Mol	Chain	Res	Type
43	1l	64	TYR
43	1l	123	LYS
43	1l	125	PRO
44	1m	5	ALA
44	1m	58	GLU
46	1o	67	LEU
49	1r	34	TYR
49	1r	52	PRO
49	1r	60	ALA
3	2D	118	VAL
4	2E	71	GLY
6	2G	79	ASN
6	2G	91	ARG
7	2H	55	PRO
7	2H	102	ALA
7	2H	106	THR
7	2H	126	PRO
7	2H	143	GLN
8	2I	53	ALA
8	2I	97	ILE
9	2N	28	THR
9	2N	29	LYS
9	2N	81	GLY
9	2N	111	PRO
10	2O	26	LYS
11	2P	36	LYS
11	2P	109	GLY
12	2Q	14	ARG
13	2R	3	HIS
13	2R	14	SER
13	2R	15	SER
13	2R	86	ARG
14	2S	10	ARG
14	2S	38	GLN
15	2T	68	TYR
16	2U	46	ALA
16	2U	79	PHE
18	2W	40	ASN
18	2W	59	VAL
19	2X	87	GLN
19	2X	88	LYS
19	2X	93	GLU

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Mol	Chain	Res	Type
23	21	85	LEU
24	22	69	ARG
33	2b	21	ARG
33	2b	110	GLN
33	2b	123	ALA
33	2b	186	ALA
33	2b	232	PRO
34	2c	18	TRP
34	2c	82	GLU
34	2c	156	ARG
35	2d	42	GLN
35	2d	63	LYS
35	2d	201	GLN
36	2e	40	ARG
38	2g	12	LEU
38	2g	61	VAL
38	2g	101	LEU
39	2h	23	SER
40	2i	43	ALA
41	2j	35	SER
41	2j	78	ASN
43	2l	118	SER
44	2m	58	GLU
44	2m	59	TYR
44	2m	106	ASN
45	2n	14	PRO
45	2n	24	CYS
45	2n	41	ARG
46	2o	7	GLU
46	2o	12	ILE
46	2o	27	VAL
47	2p	28	ARG
47	2p	63	GLY
48	2q	99	SER
49	2r	61	LYS
50	2s	29	ARG
50	2s	66	MET
51	2t	10	LEU
51	2t	102	GLY
3	1D	218	ARG
3	1D	236	GLY
4	1E	52	LEU

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Mol	Chain	Res	Type
4	1E	138	PRO
8	1I	63	ALA
8	1I	73	GLU
10	1O	5	GLN
15	1T	128	GLU
18	1W	66	GLU
21	1Z	34	ASN
21	1Z	40	ASP
21	1Z	41	LEU
21	1Z	119	GLU
21	1Z	136	PHE
22	10	9	SER
29	17	8	ASN
33	1b	23	ARG
33	1b	76	GLN
33	1b	83	MET
33	1b	235	SER
36	1e	27	ARG
38	1g	90	GLU
40	1i	78	LYS
41	1j	91	PRO
42	1k	62	GLN
45	1n	26	ARG
46	1o	12	ILE
46	1o	19	PRO
46	1o	66	LEU
3	2D	53	PHE
3	2D	156	ALA
5	2F	63	LYS
7	2H	12	PRO
8	2I	92	VAL
10	2O	89	ASN
11	2P	60	MET
12	2Q	40	ALA
13	2R	27	SER
13	2R	45	ARG
18	2W	11	ARG
18	2W	58	ALA
19	2X	40	LYS
21	2Z	84	GLU
24	22	33	MET
33	2b	161	ALA

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Mol	Chain	Res	Type
33	2b	190	THR
34	2c	150	LYS
34	2c	176	HIS
35	2d	200	GLU
36	2e	132	ALA
39	2h	29	SER
39	2h	52	ASP
40	2i	55	ALA
40	2i	95	LYS
42	2k	66	LEU
43	2l	86	ARG
50	2s	69	HIS
51	2t	27	LYS
51	2t	89	ARG
3	1D	203	ASN
3	1D	263	ARG
6	1G	36	LYS
6	1G	68	PRO
7	1H	110	SER
8	1I	69	LYS
8	1I	90	GLY
9	1N	112	LEU
10	1O	54	GLU
12	1Q	40	ALA
14	1S	59	LYS
17	1V	43	GLU
21	1Z	65	GLN
21	1Z	93	ASP
24	12	26	ARG
33	1b	20	GLU
33	1b	95	GLN
33	1b	178	ARG
34	1c	22	TRP
34	1c	91	LEU
34	1c	170	GLN
34	1c	181	ASN
35	1d	13	ARG
36	1e	148	VAL
37	1f	19	LEU
38	1g	93	PRO
39	1h	35	ILE
39	1h	70	GLN

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Mol	Chain	Res	Type
41	1j	78	ASN
43	1l	74	GLY
46	1o	36	ILE
3	2D	241	PRO
5	2F	59	TYR
6	2G	58	GLN
6	2G	63	ILE
6	2G	98	ARG
7	2H	165	ALA
7	2H	174	GLY
8	2I	52	ARG
9	2N	98	VAL
11	2P	134	ALA
13	2R	13	HIS
15	2T	20	PRO
16	2U	80	ILE
20	2Y	90	LEU
21	2Z	165	VAL
26	24	47	GLN
33	2b	20	GLU
33	2b	78	GLN
33	2b	202	PRO
34	2c	30	ARG
34	2c	92	ALA
38	2g	43	PHE
39	2h	80	ILE
40	2i	88	TYR
42	2k	70	LYS
46	2o	88	ARG
49	2r	48	GLY
50	2s	47	HIS
51	2t	8	ARG
51	2t	74	LYS
3	1D	45	ASN
3	1D	132	PRO
5	1F	61	GLY
8	1I	68	LEU
11	1P	36	LYS
12	1Q	50	ALA
13	1R	86	ARG
14	1S	94	TYR
15	1T	36	GLU

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Mol	Chain	Res	Type
15	1T	120	ARG
22	10	83	PRO
29	17	22	MET
33	1b	15	VAL
33	1b	127	ILE
38	1g	86	GLN
39	1h	13	ILE
40	1i	21	PRO
41	1j	26	ALA
44	1m	107	ALA
45	1n	55	GLY
46	1o	86	GLY
47	1p	53	VAL
48	1q	34	LYS
48	1q	80	GLY
51	1t	33	ILE
4	2E	74	PRO
8	2I	51	ILE
10	2O	115	VAL
11	2P	74	GLU
11	2P	129	ALA
13	2R	39	PRO
17	2V	79	VAL
18	2W	14	PRO
18	2W	80	PRO
21	2Z	27	VAL
26	24	55	ARG
34	2c	70	VAL
34	2c	105	GLU
35	2d	156	GLU
36	2e	77	PRO
36	2e	80	ILE
36	2e	93	PRO
40	2i	79	LEU
42	2k	44	SER
48	2q	27	PHE
51	2t	33	ILE
11	1P	122	PRO
20	1Y	15	VAL
28	16	7	ILE
33	1b	202	PRO
36	1e	77	PRO

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Mol	Chain	Res	Type
39	1h	83	ILE
41	1j	75	ILE
42	1k	105	VAL
42	1k	118	GLY
47	1p	36	ILE
50	1s	67	VAL
8	2I	90	GLY
21	2Z	124	ILE
21	2Z	194	PRO
38	2g	105	VAL
39	2h	51	VAL
17	1V	79	VAL
40	1i	49	PRO
5	2F	55	GLY
6	2G	101	ILE
10	2O	119	PRO
18	2W	21	VAL
34	2c	134	ILE
9	1N	30	ILE
12	1Q	109	VAL
34	1c	103	VAL
36	1e	129	ILE
6	2G	109	VAL
6	2G	177	GLY
21	2Z	15	PRO
22	20	83	PRO
39	2h	72	PRO
45	2n	55	GLY
13	1R	39	PRO
35	1d	178	VAL
39	1h	86	ILE
44	1m	7	VAL
46	1o	75	PRO
51	1t	88	VAL
51	1t	100	ILE
3	2D	244	ARG
8	2I	32	PRO
21	2Z	90	VAL
23	11	74	VAL
40	1i	77	ILE
43	1l	39	VAL
22	20	73	GLY

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Mol	Chain	Res	Type
41	2j	39	PRO
52	2u	23	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	1D	214/217 (99%)	212 (99%)	2 (1%)	70 77
3	2D	215/217 (99%)	213 (99%)	2 (1%)	70 77
4	1E	164/165 (99%)	164 (100%)	0	100 100
4	2E	164/165 (99%)	163 (99%)	1 (1%)	78 80
5	1F	160/161 (99%)	160 (100%)	0	100 100
5	2F	159/161 (99%)	157 (99%)	2 (1%)	61 73
6	1G	144/155 (93%)	144 (100%)	0	100 100
6	2G	142/155 (92%)	142 (100%)	0	100 100
7	1H	144/145 (99%)	144 (100%)	0	100 100
7	2H	143/145 (99%)	143 (100%)	0	100 100
8	1I	111/123 (90%)	111 (100%)	0	100 100
8	2I	109/123 (89%)	109 (100%)	0	100 100
9	1N	119/119 (100%)	118 (99%)	1 (1%)	73 78
9	2N	118/119 (99%)	117 (99%)	1 (1%)	73 78
10	1O	100/100 (100%)	99 (99%)	1 (1%)	68 76
10	2O	100/100 (100%)	98 (98%)	2 (2%)	48 68
11	1P	115/116 (99%)	115 (100%)	0	100 100
11	2P	115/116 (99%)	114 (99%)	1 (1%)	70 77
12	1Q	111/111 (100%)	108 (97%)	3 (3%)	39 63
12	2Q	111/111 (100%)	109 (98%)	2 (2%)	51 69
13	1R	101/101 (100%)	101 (100%)	0	100 100
13	2R	101/101 (100%)	101 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	1S	87/87 (100%)	86 (99%)	1 (1%)	65	75
14	2S	85/87 (98%)	85 (100%)	0	100	100
15	1T	115/115 (100%)	113 (98%)	2 (2%)	53	70
15	2T	113/115 (98%)	112 (99%)	1 (1%)	70	77
16	1U	93/93 (100%)	92 (99%)	1 (1%)	65	75
16	2U	93/93 (100%)	92 (99%)	1 (1%)	65	75
17	1V	81/82 (99%)	80 (99%)	1 (1%)	63	74
17	2V	80/82 (98%)	78 (98%)	2 (2%)	42	64
18	1W	90/91 (99%)	87 (97%)	3 (3%)	33	59
18	2W	90/91 (99%)	90 (100%)	0	100	100
19	1X	77/77 (100%)	76 (99%)	1 (1%)	61	73
19	2X	77/77 (100%)	74 (96%)	3 (4%)	28	56
20	1Y	86/88 (98%)	85 (99%)	1 (1%)	63	74
20	2Y	86/88 (98%)	86 (100%)	0	100	100
21	1Z	169/176 (96%)	166 (98%)	3 (2%)	51	69
21	2Z	165/176 (94%)	162 (98%)	3 (2%)	51	69
22	10	61/62 (98%)	61 (100%)	0	100	100
22	20	61/62 (98%)	60 (98%)	1 (2%)	55	71
23	11	79/82 (96%)	79 (100%)	0	100	100
23	21	81/82 (99%)	81 (100%)	0	100	100
24	12	65/66 (98%)	65 (100%)	0	100	100
24	22	66/66 (100%)	66 (100%)	0	100	100
25	13	51/51 (100%)	51 (100%)	0	100	100
25	23	50/51 (98%)	50 (100%)	0	100	100
26	14	58/62 (94%)	55 (95%)	3 (5%)	21	48
26	24	54/62 (87%)	53 (98%)	1 (2%)	50	69
27	15	51/51 (100%)	50 (98%)	1 (2%)	48	68
27	25	50/51 (98%)	50 (100%)	0	100	100
28	16	51/51 (100%)	50 (98%)	1 (2%)	48	68
28	26	50/51 (98%)	50 (100%)	0	100	100
29	17	41/41 (100%)	41 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	27	41/41 (100%)	41 (100%)	0	100	100
30	18	54/54 (100%)	54 (100%)	0	100	100
30	28	54/54 (100%)	54 (100%)	0	100	100
31	19	34/34 (100%)	34 (100%)	0	100	100
31	29	34/34 (100%)	34 (100%)	0	100	100
33	1b	191/199 (96%)	190 (100%)	1 (0%)	81	82
33	2b	187/199 (94%)	186 (100%)	1 (0%)	81	82
34	1c	144/160 (90%)	142 (99%)	2 (1%)	59	72
34	2c	140/160 (88%)	140 (100%)	0	100	100
35	1d	171/180 (95%)	171 (100%)	0	100	100
35	2d	172/180 (96%)	171 (99%)	1 (1%)	78	80
36	1e	114/114 (100%)	114 (100%)	0	100	100
36	2e	114/114 (100%)	113 (99%)	1 (1%)	70	77
37	1f	85/90 (94%)	85 (100%)	0	100	100
37	2f	85/90 (94%)	83 (98%)	2 (2%)	43	65
38	1g	120/126 (95%)	119 (99%)	1 (1%)	73	78
38	2g	119/126 (94%)	119 (100%)	0	100	100
39	1h	116/118 (98%)	115 (99%)	1 (1%)	70	77
39	2h	114/118 (97%)	112 (98%)	2 (2%)	51	69
40	1i	91/98 (93%)	88 (97%)	3 (3%)	33	59
40	2i	88/98 (90%)	88 (100%)	0	100	100
41	1j	68/87 (78%)	68 (100%)	0	100	100
41	2j	68/87 (78%)	67 (98%)	1 (2%)	57	71
42	1k	83/86 (96%)	82 (99%)	1 (1%)	63	74
42	2k	83/86 (96%)	83 (100%)	0	100	100
43	1l	96/102 (94%)	95 (99%)	1 (1%)	68	76
43	2l	96/102 (94%)	95 (99%)	1 (1%)	68	76
44	1m	90/94 (96%)	90 (100%)	0	100	100
44	2m	87/94 (93%)	87 (100%)	0	100	100
45	1n	49/49 (100%)	48 (98%)	1 (2%)	48	68
45	2n	49/49 (100%)	49 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
46	1o	78/79 (99%)	78 (100%)	0	100 100
46	2o	78/79 (99%)	78 (100%)	0	100 100
47	1p	69/71 (97%)	68 (99%)	1 (1%)	59 72
47	2p	68/71 (96%)	67 (98%)	1 (2%)	57 71
48	1q	94/94 (100%)	94 (100%)	0	100 100
48	2q	94/94 (100%)	94 (100%)	0	100 100
49	1r	59/59 (100%)	57 (97%)	2 (3%)	32 58
49	2r	59/59 (100%)	58 (98%)	1 (2%)	53 70
50	1s	68/72 (94%)	67 (98%)	1 (2%)	57 71
50	2s	67/72 (93%)	67 (100%)	0	100 100
51	1t	71/76 (93%)	71 (100%)	0	100 100
51	2t	70/76 (92%)	70 (100%)	0	100 100
52	1u	18/18 (100%)	16 (89%)	2 (11%)	6 21
52	2u	18/18 (100%)	17 (94%)	1 (6%)	19 45
All	All	9364/9696 (97%)	9287 (99%)	77 (1%)	73 78

All (77) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	6	PHE
3	1D	9	TYR
9	1N	123	TYR
10	1O	79	PHE
12	1Q	29	PHE
12	1Q	65	PHE
12	1Q	93	TYR
14	1S	36	TYR
15	1T	14	TYR
15	1T	74	ARG
16	1U	79	PHE
17	1V	91	TYR
18	1W	11	ARG
18	1W	38	TYR
18	1W	46	PHE
19	1X	69	TYR
20	1Y	20	TYR
21	1Z	8	TYR

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Mol	Chain	Res	Type
21	1Z	38	TYR
21	1Z	104	PHE
26	14	25	TYR
26	14	32	TYR
26	14	67	TYR
27	15	51	TYR
28	16	21	TYR
33	1b	92	TYR
34	1c	186	PHE
34	1c	201	TYR
38	1g	18	TYR
39	1h	65	TYR
40	1i	18	PHE
40	1i	92	TYR
40	1i	114	TYR
42	1k	20	TYR
43	1l	98	TYR
45	1n	16	PHE
47	1p	17	TYR
49	1r	29	PHE
49	1r	43	PHE
50	1s	43	GLU
52	1u	18	TYR
52	1u	21	TYR
3	2D	9	TYR
3	2D	269	PHE
4	2E	15	PHE
5	2F	18	ARG
5	2F	97	TYR
9	2N	4	TYR
10	2O	79	PHE
10	2O	99	PHE
11	2P	91	PHE
12	2Q	93	TYR
12	2Q	137	TYR
15	2T	68	TYR
16	2U	32	PHE
17	2V	12	TYR
17	2V	91	TYR
19	2X	5	TYR
19	2X	28	PHE
19	2X	69	TYR

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Mol	Chain	Res	Type
21	2Z	8	TYR
21	2Z	104	PHE
21	2Z	136	PHE
22	20	26	TYR
26	24	25	TYR
33	2b	199	TYR
35	2d	3	ARG
36	2e	26	PHE
37	2f	4	TYR
37	2f	50	TYR
39	2h	20	TYR
39	2h	65	TYR
41	2j	47	PHE
43	2l	32	PHE
47	2p	39	TYR
49	2r	43	PHE
52	2u	21	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (155) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	115	GLN
3	1D	116	GLN
4	1E	48	GLN
4	1E	159	HIS
6	1G	40	ASN
8	1I	104	GLN
9	1N	56	ASN
9	1N	94	HIS
9	1N	133	GLN
10	1O	5	GLN
11	1P	9	ASN
11	1P	27	HIS
12	1Q	57	HIS
12	1Q	123	HIS
13	1R	13	HIS
13	1R	23	ASN
13	1R	24	GLN
13	1R	50	HIS
13	1R	71	GLN
14	1S	61	ASN
14	1S	68	GLN

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Mol	Chain	Res	Type
15	1T	58	ASN
16	1U	44	ASN
16	1U	72	HIS
16	1U	117	GLN
17	1V	80	GLN
18	1W	34	ASN
18	1W	40	ASN
18	1W	60	ASN
18	1W	102	HIS
19	1X	41	ASN
19	1X	55	ASN
20	1Y	43	ASN
20	1Y	92	ASN
21	1Z	32	HIS
21	1Z	34	ASN
21	1Z	75	ASN
21	1Z	121	HIS
22	10	35	ASN
24	12	9	GLN
24	12	65	ASN
25	13	52	HIS
28	16	29	ASN
31	19	20	HIS
33	1b	19	HIS
33	1b	40	HIS
33	1b	95	GLN
33	1b	113	HIS
33	1b	212	GLN
34	1c	6	HIS
34	1c	69	HIS
34	1c	98	ASN
34	1c	139	GLN
34	1c	162	GLN
35	1d	103	ASN
35	1d	119	GLN
35	1d	123	HIS
35	1d	160	GLN
36	1e	20	GLN
37	1f	100	ASN
38	1g	37	ASN
38	1g	86	GLN
38	1g	106	GLN

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Mol	Chain	Res	Type
38	1g	122	HIS
39	1h	15	ASN
40	1i	3	GLN
40	1i	38	GLN
41	1j	21	GLN
41	1j	56	HIS
41	1j	84	GLN
42	1k	93	GLN
43	1l	80	HIS
46	1o	28	GLN
46	1o	37	ASN
48	1q	16	GLN
50	1s	23	ASN
50	1s	69	HIS
50	1s	83	HIS
51	1t	73	HIS
51	1t	75	ASN
3	2D	115	GLN
3	2D	116	GLN
3	2D	143	HIS
3	2D	253	GLN
4	2E	48	GLN
4	2E	129	HIS
4	2E	137	HIS
5	2F	40	GLN
5	2F	75	HIS
6	2G	79	ASN
6	2G	108	ASN
6	2G	132	ASN
7	2H	74	ASN
8	2I	43	ASN
11	2P	27	HIS
11	2P	35	HIS
12	2Q	13	GLN
12	2Q	57	HIS
12	2Q	123	HIS
13	2R	13	HIS
13	2R	53	HIS
15	2T	58	ASN
15	2T	123	GLN
16	2U	71	GLN
16	2U	94	ASN

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Mol	Chain	Res	Type
16	2U	117	GLN
18	2W	40	ASN
18	2W	57	ASN
18	2W	60	ASN
19	2X	41	ASN
21	2Z	55	HIS
21	2Z	85	HIS
25	23	32	GLN
26	24	40	HIS
26	24	46	GLN
27	25	22	HIS
27	25	23	HIS
28	26	20	ASN
28	26	29	ASN
31	29	36	GLN
33	2b	16	HIS
33	2b	113	HIS
33	2b	146	GLN
33	2b	212	GLN
34	2c	6	HIS
34	2c	69	HIS
35	2d	119	GLN
35	2d	125	HIS
35	2d	201	GLN
36	2e	78	HIS
37	2f	64	GLN
37	2f	73	ASN
38	2g	64	GLN
38	2g	109	ASN
39	2h	82	HIS
41	2j	21	GLN
41	2j	56	HIS
41	2j	68	HIS
41	2j	69	ASN
43	2l	99	HIS
44	2m	92	HIS
44	2m	101	GLN
46	2o	28	GLN
46	2o	50	HIS
46	2o	53	HIS
46	2o	62	GLN
47	2p	65	GLN

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Mol	Chain	Res	Type
47	2p	76	GLN
48	2q	16	GLN
48	2q	94	ASN
49	2r	63	GLN
50	2s	23	ASN
50	2s	69	HIS
50	2s	83	HIS
51	2t	16	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2865/2915 (98%)	484 (16%)	22 (0%)
1	2A	2858/2915 (98%)	519 (18%)	38 (1%)
2	1B	119/120 (99%)	13 (10%)	0
2	2B	119/120 (99%)	17 (14%)	0
32	1a	1497/2331 (64%)	279 (18%)	0
32	2a	1501/2331 (64%)	273 (18%)	0
All	All	8959/10732 (83%)	1585 (17%)	60 (0%)

All (1585) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	11	U
1	1A	12	A
1	1A	34	G
1	1A	38	C
1	1A	44	C
1	1A	59	G
1	1A	69	A
1	1A	72	A
1	1A	73	G
1	1A	98	G
1	1A	115	A
1	1A	116	A
1	1A	117	U
1	1A	120	G
1	1A	122	G
1	1A	138	A
1	1A	161	G
1	1A	170	A

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Mol	Chain	Res	Type
1	1A	174	G
1	1A	175	G
1	1A	184	A
1	1A	187	A
1	1A	193	G
1	1A	203	G
1	1A	204	A
1	1A	209	A
1	1A	210	A
1	1A	217	A
1	1A	218	U
1	1A	229	A
1	1A	236	G
1	1A	237	C
1	1A	254	G
1	1A	268	G
1	1A	270	U
1	1A	271	U
1	1A	272	G
1	1A	273	U
1	1A	274	C
1	1A	287	U
1	1A	288	G
1	1A	294	C
1	1A	295	U
1	1A	298	G
1	1A	302	C
1	1A	334	A
1	1A	348	G
1	1A	353	A
1	1A	354	A
1	1A	361	G
1	1A	375	G
1	1A	386	G
1	1A	388	G
1	1A	398	G
1	1A	412	G
1	1A	415	G
1	1A	416	A
1	1A	422	G
1	1A	431	U
1	1A	432	G

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Mol	Chain	Res	Type
1	1A	433	G
1	1A	437	G
1	1A	454	A
1	1A	473	U
1	1A	474	A
1	1A	481	C
1	1A	482	A
1	1A	490	G
1	1A	498	G
1	1A	505	A
1	1A	506	G
1	1A	529	A
1	1A	532	G
1	1A	533	C
1	1A	537	A
1	1A	552	A
1	1A	553	A
1	1A	554	G
1	1A	555	C
1	1A	556	A
1	1A	557	G
1	1A	560	A
1	1A	568	G
1	1A	572	G
1	1A	573	G
1	1A	578	G
1	1A	585	G
1	1A	590	U
1	1A	595	G
1	1A	604	G
1	1A	625	A
1	1A	626	G
1	1A	629	U
1	1A	638	G
1	1A	640	G
1	1A	641	G
1	1A	643	G
1	1A	651	A
1	1A	659	C
1	1A	661	A
1	1A	669	C
1	1A	670	A

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Mol	Chain	Res	Type
1	1A	696	C
1	1A	697	G
1	1A	714	G
1	1A	715	G
1	1A	716	A
1	1A	719	C
1	1A	728	G
1	1A	732	G
1	1A	763	G
1	1A	776	C
1	1A	794	G
1	1A	811	G
1	1A	817	G
1	1A	820	A
1	1A	821	G
1	1A	822	G
1	1A	825	U
1	1A	828	A
1	1A	830	A
1	1A	831	G
1	1A	836	C
1	1A	838	G
1	1A	851	G
1	1A	857	U
1	1A	858	C
1	1A	873	U
1	1A	874	U
1	1A	877	G
1	1A	902	C
1	1A	905	G
1	1A	912	A
1	1A	925	G
1	1A	931	C
1	1A	932	C
1	1A	934	C
1	1A	935	C
1	1A	936	A
1	1A	941	A
1	1A	952	U
1	1A	955	A
1	1A	976	G
1	1A	989	A

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Mol	Chain	Res	Type
1	1A	990	G
1	1A	997	A
1	1A	1003	A
1	1A	1005	C
1	1A	1018	G
1	1A	1019	C
1	1A	1020	G
1	1A	1028	A
1	1A	1034	G
1	1A	1035	A
1	1A	1039	C
1	1A	1040	C
1	1A	1041	A
1	1A	1050	C
1	1A	1057	U
1	1A	1058	C
1	1A	1067	G
1	1A	1068	U
1	1A	1069	G
1	1A	1070	G
1	1A	1071	U
1	1A	1078	U
1	1A	1084	G
1	1A	1085	C
1	1A	1088	C
1	1A	1090	A
1	1A	1091	A
1	1A	1092	G
1	1A	1096	G
1	1A	1098	C
1	1A	1099	A
1	1A	1106	U
1	1A	1107	G
1	1A	1110	U
1	1A	1113	G
1	1A	1115	A
1	1A	1118	A
1	1A	1119	G
1	1A	1120	C
1	1A	1121	C
1	1A	1122	A
1	1A	1123	U

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Mol	Chain	Res	Type
1	1A	1124	C
1	1A	1128	U
1	1A	1132	G
1	1A	1133	A
1	1A	1135	U
1	1A	1137	C
1	1A	1141	A
1	1A	1149	C
1	1A	1154	C
1	1A	1155	G
1	1A	1157	G
1	1A	1172	A
1	1A	1174	A
1	1A	1175	U
1	1A	1177	A
1	1A	1179	C
1	1A	1180	G
1	1A	1186	U
1	1A	1216	G
1	1A	1217	G
1	1A	1218	A
1	1A	1219	U
1	1A	1220	G
1	1A	1221	A
1	1A	1222	C
1	1A	1254	A
1	1A	1255	U
1	1A	1262	C
1	1A	1281	G
1	1A	1295	G
1	1A	1298	A
1	1A	1301	G
1	1A	1316	G
1	1A	1317	A
1	1A	1318	U
1	1A	1321	A
1	1A	1329	A
1	1A	1345	U
1	1A	1346	A
1	1A	1368	U
1	1A	1390	C
1	1A	1393	G

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Mol	Chain	Res	Type
1	1A	1395	C
1	1A	1397	U
1	1A	1404	A
1	1A	1410	A
1	1A	1423	A
1	1A	1424	A
1	1A	1429	A
1	1A	1430	G
1	1A	1431	C
1	1A	1461	G
1	1A	1462	C
1	1A	1465	U
1	1A	1466	G
1	1A	1472	A
1	1A	1473	C
1	1A	1478	U
1	1A	1490	A
1	1A	1500	U
1	1A	1501	G
1	1A	1507	G
1	1A	1513	C
1	1A	1515	A
1	1A	1517	A
1	1A	1528	G
1	1A	1538	C
1	1A	1540	A
1	1A	1551	C
1	1A	1554	C
1	1A	1555	A
1	1A	1577	C
1	1A	1578	C
1	1A	1588	A
1	1A	1589	C
1	1A	1592	C
1	1A	1604	A
1	1A	1615	A
1	1A	1624	U
1	1A	1625	A
1	1A	1626	A
1	1A	1630	C
1	1A	1631	A
1	1A	1647	U

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Mol	Chain	Res	Type
1	1A	1653	A
1	1A	1654	A
1	1A	1655	A
1	1A	1661	A
1	1A	1663	A
1	1A	1685	U
1	1A	1694	C
1	1A	1700	A
1	1A	1710	A
1	1A	1720	G
1	1A	1740	C
1	1A	1742	G
1	1A	1746	A
1	1A	1747	A
1	1A	1766	A
1	1A	1767	U
1	1A	1775	G
1	1A	1778	G
1	1A	1792	A
1	1A	1793	G
1	1A	1794	G
1	1A	1803	A
1	1A	1810	A
1	1A	1821	A
1	1A	1830	C
1	1A	1831	G
1	1A	1845	A
1	1A	1846	G
1	1A	1849	A
1	1A	1857	C
1	1A	1863	U
1	1A	1869	G
1	1A	1877	A
1	1A	1898	A
1	1A	1899	G
1	1A	1910	A
1	1A	1921	A
1	1A	1924	G
1	1A	1927	G
1	1A	1934	A
1	1A	1940	A
1	1A	1951	G

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Mol	Chain	Res	Type
1	1A	1952	U
1	1A	1957	A
1	1A	1958	A
1	1A	1959	A
1	1A	1976	U
1	1A	1984	U
1	1A	1985	G
1	1A	1988	C
1	1A	1991	A
1	1A	1992	A
1	1A	1993	A
1	1A	2014	U
1	1A	2018	G
1	1A	2033	G
1	1A	2041	A
1	1A	2044	G
1	1A	2051	A
1	1A	2052	A
1	1A	2054	A
1	1A	2064	C
1	1A	2070	G
1	1A	2073	G
1	1A	2076	C
1	1A	2077	G
1	1A	2081	A
1	1A	2082	G
1	1A	2084	C
1	1A	2087	C
1	1A	2090	G
1	1A	2124	C
1	1A	2125	G
1	1A	2126	C
1	1A	2128	C
1	1A	2129	C
1	1A	2133	G
1	1A	2137	G
1	1A	2138	A
1	1A	2139	U
1	1A	2140	A
1	1A	2141	G
1	1A	2144	G
1	1A	2145	G

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Mol	Chain	Res	Type
1	1A	2147	A
1	1A	2148	G
1	1A	2150	C
1	1A	2152	G
1	1A	2153	U
1	1A	2154	G
1	1A	2156	A
1	1A	2163	C
1	1A	2165	U
1	1A	2167	C
1	1A	2168	G
1	1A	2169	G
1	1A	2173	G
1	1A	2179	A
1	1A	2191	A
1	1A	2199	C
1	1A	2207	G
1	1A	2208	G
1	1A	2211	G
1	1A	2219	A
1	1A	2226	G
1	1A	2227	G
1	1A	2228	A
1	1A	2229	U
1	1A	2230	G
1	1A	2236	A
1	1A	2237	C
1	1A	2246	G
1	1A	2250	G
1	1A	2260	U
1	1A	2277	A
1	1A	2279	A
1	1A	2289	A
1	1A	2294	C
1	1A	2298	A
1	1A	2316	A
1	1A	2319	G
1	1A	2321	A
1	1A	2331	A
1	1A	2332	G
1	1A	2335	C
1	1A	2336	G

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Mol	Chain	Res	Type
1	1A	2345	G
1	1A	2347	A
1	1A	2358	C
1	1A	2361	C
1	1A	2383	G
1	1A	2394	G
1	1A	2396	C
1	1A	2402	G
1	1A	2417	U
1	1A	2422	A
1	1A	2425	G
1	1A	2434	U
1	1A	2435	C
1	1A	2436	A
1	1A	2439	G
1	1A	2440	G
1	1A	2441	A
1	1A	2445	A
1	1A	2446	A
1	1A	2450	A
1	1A	2452	C
1	1A	2459	A
1	1A	2464	A
1	1A	2487	A
1	1A	2489	A
1	1A	2493	G
1	1A	2508	A
1	1A	2513	G
1	1A	2516	G
1	1A	2517	U
1	1A	2529	A
1	1A	2531	C
1	1A	2536	G
1	1A	2540	G
1	1A	2549	C
1	1A	2560	G
1	1A	2565	U
1	1A	2566	U
1	1A	2575	A
1	1A	2577	A
1	1A	2578	G
1	1A	2583	A

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Mol	Chain	Res	Type
1	1A	2584	C
1	1A	2587	G
1	1A	2588	A
1	1A	2597	C
1	1A	2613	A
1	1A	2614	G
1	1A	2620	U
1	1A	2623	C
1	1A	2626	U
1	1A	2639	C
1	1A	2640	A
1	1A	2641	G
1	1A	2662	C
1	1A	2664	U
1	1A	2665	A
1	1A	2673	A
1	1A	2690	A
1	1A	2700	U
1	1A	2701	C
1	1A	2702	C
1	1A	2713	U
1	1A	2714	C
1	1A	2724	A
1	1A	2725	A
1	1A	2726	G
1	1A	2738	U
1	1A	2739	G
1	1A	2745	A
1	1A	2754	C
1	1A	2769	A
1	1A	2770	A
1	1A	2777	A
1	1A	2778	G
1	1A	2790	A
1	1A	2792	G
1	1A	2802	A
1	1A	2803	C
1	1A	2812	G
1	1A	2827	G
1	1A	2829	A
1	1A	2830	A
1	1A	2842	G

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Mol	Chain	Res	Type
1	1A	2881	G
1	1A	2889	C
1	1A	2900	A
1	1A	2902	G
2	1B	7	G
2	1B	13	A
2	1B	31	C
2	1B	41	U
2	1B	52	A
2	1B	56	G
2	1B	64	C
2	1B	73	A
2	1B	80	U
2	1B	91	C
2	1B	101	G
2	1B	106	G
2	1B	110	G
32	1a	10	G
32	1a	23	G
32	1a	33	A
32	1a	40	G
32	1a	48	C
32	1a	49	C
32	1a	51	A
32	1a	52	A
32	1a	62	G
32	1a	76	G
32	1a	78	G
32	1a	95	A
32	1a	110	A
32	1a	115	C
32	1a	124	G
32	1a	126	C
32	1a	139	G
32	1a	156	A
32	1a	158	C
32	1a	168	U
32	1a	169	C
32	1a	177	U
32	1a	190	U
32	1a	191	G
32	1a	202	A

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Mol	Chain	Res	Type
32	1a	208	C
32	1a	210	U
32	1a	211	U
32	1a	212	G
32	1a	239	A
32	1a	241	C
32	1a	243	G
32	1a	247	G
32	1a	259	A
32	1a	262	G
32	1a	263	C
32	1a	285	G
32	1a	294	A
32	1a	324	C
32	1a	325	A
32	1a	326	C
32	1a	328	G
32	1a	344	G
32	1a	348	C
32	1a	349	A
32	1a	350	G
32	1a	363	U
32	1a	368	C
32	1a	369	A
32	1a	380	G
32	1a	383	U
32	1a	393	A
32	1a	394	C
32	1a	401	U
32	1a	402	G
32	1a	408	A
32	1a	409	G
32	1a	419	G
32	1a	420	G
32	1a	425	U
32	1a	426	A
32	1a	435	A
32	1a	437	C
32	1a	447	A
32	1a	455	A
32	1a	456	C
32	1a	457	G

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Mol	Chain	Res	Type
32	1a	463	A
32	1a	469	G
32	1a	470	G
32	1a	481	A
32	1a	482	U
32	1a	489	G
32	1a	493	A
32	1a	494	A
32	1a	495	C
32	1a	496	U
32	1a	498	C
32	1a	502	C
32	1a	504	A
32	1a	516	A
32	1a	517	A
32	1a	531	A
32	1a	543	A
32	1a	545	U
32	1a	546	C
32	1a	553	C
32	1a	556	A
32	1a	557	A
32	1a	559	G
32	1a	560	G
32	1a	561	G
32	1a	580	C
32	1a	582	U
32	1a	603	U
32	1a	604	C
32	1a	614	G
32	1a	615	G
32	1a	616	A
32	1a	637	A
32	1a	645	G
32	1a	646	G
32	1a	649	A
32	1a	650	G
32	1a	671	A
32	1a	672	G
32	1a	677	G
32	1a	691	C
32	1a	706	A

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Mol	Chain	Res	Type
32	1a	707	U
32	1a	744	G
32	1a	750	A
32	1a	761	A
32	1a	773	U
32	1a	774	A
32	1a	776	A
32	1a	777	U
32	1a	778	A
32	1a	794	C
32	1a	801	C
32	1a	812	A
32	1a	813	G
32	1a	820	G
32	1a	824	C
32	1a	825	U
32	1a	829	G
32	1a	837	A
32	1a	850	A
32	1a	851	A
32	1a	880	G
32	1a	892	A
32	1a	894	G
32	1a	904	G
32	1a	905	G
32	1a	906	G
32	1a	912	C
32	1a	913	A
32	1a	938	U
32	1a	939	U
32	1a	944	M2G
32	1a	946	A
32	1a	947	A
32	1a	949	G
32	1a	950	C
32	1a	952	A
32	1a	953	A
32	1a	954	G
32	1a	955	A
32	1a	960	U
32	1a	963	C
32	1a	970	U

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Mol	Chain	Res	Type
32	1a	971	G
32	1a	972	A
32	1a	976	G
32	1a	982	G
32	1a	983	A
32	1a	984	A
32	1a	985	C
32	1a	996	G
32	1a	999	U
32	1a	1001	G
32	1a	1002	G
32	1a	1003	G
32	1a	1004	U
32	1a	1005	G
32	1a	1006	C
32	1a	1007	C
32	1a	1008	C
32	1a	1010	G
32	1a	1011	C
32	1a	1012	G
32	1a	1015	G
32	1a	1016	G
32	1a	1019	G
32	1a	1020	C
32	1a	1025	G
32	1a	1026	C
32	1a	1027	A
32	1a	1036	G
32	1a	1048	U
32	1a	1049	C
32	1a	1051	G
32	1a	1053	U
32	1a	1063	A
32	1a	1064	G
32	1a	1072	G
32	1a	1077	G
32	1a	1078	U
32	1a	1084	A
32	1a	1106	A
32	1a	1108	U
32	1a	1113	A
32	1a	1115	C

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Mol	Chain	Res	Type
32	1a	1117	G
32	1a	1119	U
32	1a	1120	C
32	1a	1121	G
32	1a	1122	G
32	1a	1123	C
32	1a	1135	A
32	1a	1142	U
32	1a	1143	G
32	1a	1150	A
32	1a	1161	A
32	1a	1165	A
32	1a	1166	G
32	1a	1175	G
32	1a	1176	U
32	1a	1178	U
32	1a	1179	G
32	1a	1183	A
32	1a	1184	G
32	1a	1190	C
32	1a	1194	U
32	1a	1195	A
32	1a	1196	C
32	1a	1206	G
32	1a	1207	A
32	1a	1208	C
32	1a	1209	A
32	1a	1211	A
32	1a	1218	A
32	1a	1220	A
32	1a	1226	C
32	1a	1236	C
32	1a	1238	A
32	1a	1239	U
32	1a	1240	G
32	1a	1243	A
32	1a	1260	U
32	1a	1262	A
32	1a	1268	A
32	1a	1269	A
32	1a	1272	G
32	1a	1279	C

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Mol	Chain	Res	Type
32	1a	1281	A
32	1a	1284	U
32	1a	1300	A
32	1a	1301	A
32	1a	1302	C
32	1a	1314	A
32	1a	1316	G
32	1a	1318	C
32	1a	1328	A
32	1a	1329	G
32	1a	1335	G
32	1a	1341	C
32	1a	1345	C
32	1a	1346	A
32	1a	1347	U
32	1a	1353	G
32	1a	1362	G
32	1a	1364	U
32	1a	1381	A
32	1a	1382	C
32	1a	1383	5MC
32	1a	1384	G
32	1a	1402	G
32	1a	1405	G
32	1a	1424	G
32	1a	1425	G
32	1a	1426	G
32	1a	1427	A
32	1a	1432	A
32	1a	1433	C
32	1a	1434	G
32	1a	1435	G
32	1a	1465	G
32	1a	1470	A
32	1a	1471	A
32	1a	1481	A
32	1a	1482	G
32	1a	1483	G
32	1a	1484	U
32	1a	1495	G
32	1a	1497	MA6
32	1a	1498	G

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Mol	Chain	Res	Type
32	1a	1507	G
32	1a	1508	G
1	2A	9	G
1	2A	11	U
1	2A	33	C
1	2A	35	G
1	2A	43	G
1	2A	44	C
1	2A	59	G
1	2A	69	A
1	2A	70	U
1	2A	72	A
1	2A	73	G
1	2A	82	A
1	2A	115	A
1	2A	116	A
1	2A	117	U
1	2A	138	A
1	2A	148	A
1	2A	155	U
1	2A	161	G
1	2A	170	A
1	2A	184	A
1	2A	187	A
1	2A	188	U
1	2A	190	U
1	2A	193	G
1	2A	203	G
1	2A	204	A
1	2A	209	A
1	2A	210	A
1	2A	213	A
1	2A	217	A
1	2A	218	U
1	2A	236	G
1	2A	254	G
1	2A	270	U
1	2A	271	U
1	2A	273	U
1	2A	274	C
1	2A	287	U
1	2A	288	G

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Mol	Chain	Res	Type
1	2A	298	G
1	2A	300	C
1	2A	301	A
1	2A	334	A
1	2A	347	A
1	2A	352	G
1	2A	353	A
1	2A	358	C
1	2A	368	A
1	2A	375	G
1	2A	385	U
1	2A	386	G
1	2A	389	G
1	2A	390	G
1	2A	391	U
1	2A	398	G
1	2A	409	U
1	2A	412	G
1	2A	413	U
1	2A	422	G
1	2A	431	U
1	2A	437	G
1	2A	454	A
1	2A	469	C
1	2A	481	C
1	2A	482	A
1	2A	489	U
1	2A	495	A
1	2A	502	A
1	2A	504	A
1	2A	506	G
1	2A	529	A
1	2A	532	G
1	2A	533	C
1	2A	551	C
1	2A	554	G
1	2A	555	C
1	2A	556	A
1	2A	557	G
1	2A	566	C
1	2A	568	G
1	2A	578	G

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Mol	Chain	Res	Type
1	2A	585	G
1	2A	590	U
1	2A	595	G
1	2A	597	A
1	2A	608	A
1	2A	610	U
1	2A	625	A
1	2A	626	G
1	2A	629	U
1	2A	631	A
1	2A	632	G
1	2A	638	G
1	2A	639	A
1	2A	640	G
1	2A	651	A
1	2A	661	A
1	2A	669	C
1	2A	670	A
1	2A	678	A
1	2A	679	G
1	2A	697	G
1	2A	699	A
1	2A	715	G
1	2A	716	A
1	2A	732	G
1	2A	757	G
1	2A	776	C
1	2A	793	U
1	2A	794	G
1	2A	798	A
1	2A	799	C
1	2A	821	G
1	2A	822	G
1	2A	828	A
1	2A	830	A
1	2A	831	G
1	2A	838	G
1	2A	847	G
1	2A	851	G
1	2A	858	C
1	2A	873	U
1	2A	892	C

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Mol	Chain	Res	Type
1	2A	893	U
1	2A	897	U
1	2A	903	C
1	2A	905	G
1	2A	912	A
1	2A	915	G
1	2A	923	U
1	2A	926	G
1	2A	933	A
1	2A	934	C
1	2A	935	C
1	2A	936	A
1	2A	938	C
1	2A	941	A
1	2A	942	C
1	2A	943	C
1	2A	945	A
1	2A	946	A
1	2A	947	C
1	2A	955	A
1	2A	962	A
1	2A	976	G
1	2A	985	A
1	2A	988	G
1	2A	989	A
1	2A	990	G
1	2A	1003	A
1	2A	1005	C
1	2A	1006	G
1	2A	1018	G
1	2A	1019	C
1	2A	1028	A
1	2A	1035	A
1	2A	1040	C
1	2A	1041	A
1	2A	1057	U
1	2A	1058	C
1	2A	1067	G
1	2A	1070	G
1	2A	1075	G
1	2A	1078	U
1	2A	1079	G

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Mol	Chain	Res	Type
1	2A	1089	G
1	2A	1090	A
1	2A	1091	A
1	2A	1092	G
1	2A	1093	A
1	2A	1094	C
1	2A	1097	C
1	2A	1098	C
1	2A	1099	A
1	2A	1102	A
1	2A	1103	G
1	2A	1105	U
1	2A	1108	G
1	2A	1109	C
1	2A	1110	U
1	2A	1111	U
1	2A	1112	A
1	2A	1113	G
1	2A	1115	A
1	2A	1116	G
1	2A	1118	A
1	2A	1119	G
1	2A	1121	C
1	2A	1122	A
1	2A	1123	U
1	2A	1124	C
1	2A	1125	C
1	2A	1128	U
1	2A	1129	A
1	2A	1130	A
1	2A	1131	A
1	2A	1133	A
1	2A	1135	U
1	2A	1136	G
1	2A	1137	C
1	2A	1138	G
1	2A	1139	U
1	2A	1141	A
1	2A	1147	C
1	2A	1153	U
1	2A	1154	C
1	2A	1155	G

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Mol	Chain	Res	Type
1	2A	1157	G
1	2A	1161	C
1	2A	1179	C
1	2A	1180	G
1	2A	1186	U
1	2A	1187	A
1	2A	1216	G
1	2A	1250	G
1	2A	1255	U
1	2A	1261	C
1	2A	1265	C
1	2A	1274	G
1	2A	1281	G
1	2A	1294	U
1	2A	1295	G
1	2A	1298	A
1	2A	1301	G
1	2A	1316	G
1	2A	1317	A
1	2A	1318	U
1	2A	1319	A
1	2A	1321	A
1	2A	1332	A
1	2A	1345	U
1	2A	1346	A
1	2A	1354	G
1	2A	1359	C
1	2A	1382	G
1	2A	1387	A
1	2A	1395	C
1	2A	1397	U
1	2A	1404	A
1	2A	1405	A
1	2A	1410	A
1	2A	1413	G
1	2A	1424	A
1	2A	1425	G
1	2A	1429	A
1	2A	1430	G
1	2A	1431	C
1	2A	1440	A
1	2A	1461	G

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Mol	Chain	Res	Type
1	2A	1462	C
1	2A	1465	U
1	2A	1466	G
1	2A	1468	G
1	2A	1473	C
1	2A	1490	A
1	2A	1499	A
1	2A	1503	A
1	2A	1505	G
1	2A	1506	A
1	2A	1513	C
1	2A	1515	A
1	2A	1517	A
1	2A	1528	G
1	2A	1538	C
1	2A	1539	A
1	2A	1542	U
1	2A	1553	A
1	2A	1554	C
1	2A	1555	A
1	2A	1556	A
1	2A	1577	C
1	2A	1579	G
1	2A	1588	A
1	2A	1589	C
1	2A	1593	C
1	2A	1604	A
1	2A	1605	G
1	2A	1615	A
1	2A	1624	U
1	2A	1626	A
1	2A	1630	C
1	2A	1631	A
1	2A	1653	A
1	2A	1654	A
1	2A	1655	A
1	2A	1661	A
1	2A	1663	A
1	2A	1676	C
1	2A	1682	C
1	2A	1694	C
1	2A	1710	A

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Mol	Chain	Res	Type
1	2A	1716	C
1	2A	1718	C
1	2A	1720	G
1	2A	1737	C
1	2A	1742	G
1	2A	1746	A
1	2A	1766	A
1	2A	1775	G
1	2A	1786	G
1	2A	1793	G
1	2A	1794	G
1	2A	1803	A
1	2A	1810	A
1	2A	1811	C
1	2A	1821	A
1	2A	1830	C
1	2A	1831	G
1	2A	1832	A
1	2A	1838	U
1	2A	1846	G
1	2A	1856	G
1	2A	1865	G
1	2A	1873	C
1	2A	1877	A
1	2A	1878	A
1	2A	1891	G
1	2A	1898	A
1	2A	1899	G
1	2A	1924	G
1	2A	1927	G
1	2A	1933	A
1	2A	1934	A
1	2A	1935	C
1	2A	1950	G
1	2A	1951	G
1	2A	1963	5MC
1	2A	1976	U
1	2A	1984	U
1	2A	1985	G
1	2A	1988	C
1	2A	1990	A
1	2A	1991	A

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Mol	Chain	Res	Type
1	2A	1992	A
1	2A	1993	A
1	2A	2005	G
1	2A	2013	G
1	2A	2014	U
1	2A	2018	G
1	2A	2041	A
1	2A	2044	G
1	2A	2051	A
1	2A	2052	A
1	2A	2054	A
1	2A	2064	C
1	2A	2070	G
1	2A	2076	C
1	2A	2077	G
1	2A	2081	A
1	2A	2082	G
1	2A	2083	A
1	2A	2087	C
1	2A	2090	G
1	2A	2109	G
1	2A	2114	G
1	2A	2117	U
1	2A	2120	U
1	2A	2124	C
1	2A	2125	G
1	2A	2126	C
1	2A	2128	C
1	2A	2129	C
1	2A	2130	U
1	2A	2131	G
1	2A	2132	C
1	2A	2133	G
1	2A	2137	G
1	2A	2138	A
1	2A	2142	G
1	2A	2147	A
1	2A	2148	G
1	2A	2150	C
1	2A	2152	G
1	2A	2153	U
1	2A	2154	G

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Mol	Chain	Res	Type
1	2A	2155	A
1	2A	2157	C
1	2A	2159	C
1	2A	2166	C
1	2A	2167	C
1	2A	2168	G
1	2A	2169	G
1	2A	2172	G
1	2A	2178	G
1	2A	2179	A
1	2A	2180	G
1	2A	2181	G
1	2A	2182	C
1	2A	2184	C
1	2A	2185	C
1	2A	2186	G
1	2A	2188	U
1	2A	2189	G
1	2A	2193	U
1	2A	2194	A
1	2A	2195	C
1	2A	2198	C
1	2A	2201	U
1	2A	2210	U
1	2A	2213	G
1	2A	2214	G
1	2A	2219	A
1	2A	2226	G
1	2A	2227	G
1	2A	2228	A
1	2A	2236	A
1	2A	2249	G
1	2A	2250	G
1	2A	2260	U
1	2A	2280	A
1	2A	2284	A
1	2A	2286	C
1	2A	2287	G
1	2A	2290	G
1	2A	2294	C
1	2A	2298	A
1	2A	2299	A

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Mol	Chain	Res	Type
1	2A	2316	A
1	2A	2317	C
1	2A	2319	G
1	2A	2322	A
1	2A	2323	U
1	2A	2330	G
1	2A	2331	A
1	2A	2332	G
1	2A	2333	A
1	2A	2336	G
1	2A	2345	G
1	2A	2346	A
1	2A	2347	A
1	2A	2354	C
1	2A	2355	U
1	2A	2358	C
1	2A	2365	G
1	2A	2366	C
1	2A	2376	G
1	2A	2377	A
1	2A	2390	G
1	2A	2394	G
1	2A	2396	C
1	2A	2407	G
1	2A	2417	U
1	2A	2433	A
1	2A	2434	U
1	2A	2436	A
1	2A	2439	G
1	2A	2440	G
1	2A	2441	A
1	2A	2445	A
1	2A	2446	A
1	2A	2450	A
1	2A	2452	C
1	2A	2456	G
1	2A	2459	A
1	2A	2480	A
1	2A	2481	G
1	2A	2485	C
1	2A	2487	A
1	2A	2493	G

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Mol	Chain	Res	Type
1	2A	2513	G
1	2A	2515	U
1	2A	2516	G
1	2A	2517	U
1	2A	2524	G
1	2A	2526	C
1	2A	2529	A
1	2A	2531	C
1	2A	2541	A
1	2A	2560	G
1	2A	2565	U
1	2A	2577	A
1	2A	2578	G
1	2A	2583	A
1	2A	2584	C
1	2A	2587	G
1	2A	2588	A
1	2A	2589	G
1	2A	2611	A
1	2A	2612	C
1	2A	2613	A
1	2A	2614	G
1	2A	2622	U
1	2A	2623	C
1	2A	2626	U
1	2A	2640	A
1	2A	2641	G
1	2A	2657	C
1	2A	2665	A
1	2A	2674	G
1	2A	2690	A
1	2A	2692	C
1	2A	2700	U
1	2A	2701	C
1	2A	2713	U
1	2A	2724	A
1	2A	2725	A
1	2A	2726	G
1	2A	2738	U
1	2A	2745	A
1	2A	2756	G
1	2A	2760	A

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Mol	Chain	Res	Type
1	2A	2762	A
1	2A	2771	G
1	2A	2777	A
1	2A	2787	A
1	2A	2790	A
1	2A	2827	G
1	2A	2829	A
1	2A	2830	A
1	2A	2842	G
1	2A	2848	G
1	2A	2856	U
1	2A	2881	G
1	2A	2889	C
1	2A	2890	C
1	2A	2891	A
1	2A	2900	A
1	2A	2902	G
2	2B	2	C
2	2B	5	C
2	2B	8	U
2	2B	13	A
2	2B	30	C
2	2B	31	C
2	2B	33	G
2	2B	42	C
2	2B	51	G
2	2B	56	G
2	2B	73	A
2	2B	75	G
2	2B	84	C
2	2B	91	C
2	2B	106	G
2	2B	110	G
2	2B	120	A
32	2a	6	U
32	2a	7	G
32	2a	8	G
32	2a	9	A
32	2a	10	G
32	2a	23	G
32	2a	32	G
32	2a	33	A

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Mol	Chain	Res	Type
32	2a	40	G
32	2a	48	C
32	2a	49	C
32	2a	52	A
32	2a	53	G
32	2a	62	G
32	2a	66	U
32	2a	67	G
32	2a	85	C
32	2a	110	A
32	2a	114	A
32	2a	115	C
32	2a	125	A
32	2a	126	C
32	2a	139	G
32	2a	151	G
32	2a	158	C
32	2a	168	U
32	2a	169	C
32	2a	177	U
32	2a	190	U
32	2a	194	G
32	2a	202	A
32	2a	208	C
32	2a	209	U
32	2a	210	U
32	2a	211	U
32	2a	212	G
32	2a	243	G
32	2a	245	U
32	2a	246	A
32	2a	247	G
32	2a	262	G
32	2a	263	C
32	2a	282	G
32	2a	285	G
32	2a	286	C
32	2a	301	G
32	2a	324	C
32	2a	328	G
32	2a	342	G
32	2a	344	G

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Mol	Chain	Res	Type
32	2a	345	A
32	2a	347	G
32	2a	348	C
32	2a	349	A
32	2a	350	G
32	2a	363	U
32	2a	368	C
32	2a	369	A
32	2a	384	G
32	2a	393	A
32	2a	394	C
32	2a	402	G
32	2a	406	G
32	2a	407	A
32	2a	408	A
32	2a	409	G
32	2a	417	U
32	2a	419	G
32	2a	424	G
32	2a	425	U
32	2a	426	A
32	2a	435	A
32	2a	437	C
32	2a	441	G
32	2a	447	A
32	2a	448	A
32	2a	453	C
32	2a	455	A
32	2a	456	C
32	2a	462	G
32	2a	467	A
32	2a	470	G
32	2a	481	A
32	2a	482	U
32	2a	484	G
32	2a	489	G
32	2a	493	A
32	2a	494	A
32	2a	495	C
32	2a	501	G
32	2a	502	C
32	2a	505	G

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Mol	Chain	Res	Type
32	2a	511	G7M
32	2a	512	C
32	2a	516	A
32	2a	517	A
32	2a	518	U
32	2a	531	A
32	2a	543	A
32	2a	545	U
32	2a	546	C
32	2a	548	C
32	2a	556	A
32	2a	557	A
32	2a	559	G
32	2a	560	G
32	2a	561	G
32	2a	600	G
32	2a	614	G
32	2a	617	G
32	2a	636	U
32	2a	637	A
32	2a	649	A
32	2a	650	G
32	2a	671	A
32	2a	672	G
32	2a	679	A
32	2a	705	G
32	2a	707	U
32	2a	714	G
32	2a	716	C
32	2a	718	G
32	2a	733	C
32	2a	735	U
32	2a	737	A
32	2a	743	A
32	2a	758	G
32	2a	761	A
32	2a	774	A
32	2a	777	U
32	2a	778	A
32	2a	801	C
32	2a	812	A
32	2a	823	U

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Mol	Chain	Res	Type
32	2a	824	C
32	2a	825	U
32	2a	828	U
32	2a	831	G
32	2a	837	A
32	2a	851	A
32	2a	852	G
32	2a	856	G
32	2a	868	G
32	2a	880	G
32	2a	892	A
32	2a	894	G
32	2a	904	G
32	2a	905	G
32	2a	912	C
32	2a	913	A
32	2a	916	A
32	2a	939	U
32	2a	943	A
32	2a	946	A
32	2a	947	A
32	2a	949	G
32	2a	950	C
32	2a	952	A
32	2a	953	A
32	2a	954	G
32	2a	955	A
32	2a	967	C
32	2a	970	U
32	2a	971	G
32	2a	972	A
32	2a	978	U
32	2a	983	A
32	2a	984	A
32	2a	985	C
32	2a	988	G
32	2a	995	A
32	2a	998	C
32	2a	999	U
32	2a	1001	G
32	2a	1002	G
32	2a	1004	U

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Mol	Chain	Res	Type
32	2a	1005	G
32	2a	1006	C
32	2a	1007	C
32	2a	1009	C
32	2a	1010	G
32	2a	1011	C
32	2a	1021	C
32	2a	1024	A
32	2a	1026	C
32	2a	1037	C
32	2a	1048	U
32	2a	1049	C
32	2a	1051	G
32	2a	1077	G
32	2a	1078	U
32	2a	1082	G
32	2a	1084	A
32	2a	1100	G
32	2a	1108	U
32	2a	1112	C
32	2a	1113	A
32	2a	1119	U
32	2a	1120	C
32	2a	1121	G
32	2a	1122	G
32	2a	1130	C
32	2a	1135	A
32	2a	1140	A
32	2a	1142	U
32	2a	1165	A
32	2a	1166	G
32	2a	1178	U
32	2a	1179	G
32	2a	1180	G
32	2a	1182	C
32	2a	1195	A
32	2a	1198	G
32	2a	1206	G
32	2a	1209	A
32	2a	1220	A
32	2a	1227	A
32	2a	1232	A

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Mol	Chain	Res	Type
32	2a	1238	A
32	2a	1239	U
32	2a	1240	G
32	2a	1242	C
32	2a	1249	C
32	2a	1252	C
32	2a	1259	C
32	2a	1260	U
32	2a	1261	A
32	2a	1262	A
32	2a	1263	U
32	2a	1264	C
32	2a	1269	A
32	2a	1271	A
32	2a	1275	G
32	2a	1282	G
32	2a	1283	U
32	2a	1284	U
32	2a	1287	G
32	2a	1294	G
32	2a	1298	G
32	2a	1299	C
32	2a	1302	C
32	2a	1317	C
32	2a	1320	G
32	2a	1328	A
32	2a	1329	G
32	2a	1335	G
32	2a	1345	C
32	2a	1346	A
32	2a	1353	G
32	2a	1361	C
32	2a	1362	G
32	2a	1383	5MC
32	2a	1384	G
32	2a	1385	4OC
32	2a	1401	A
32	2a	1402	G
32	2a	1412	C
32	2a	1425	G
32	2a	1426	G
32	2a	1432	A

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Mol	Chain	Res	Type
32	2a	1433	C
32	2a	1465	G
32	2a	1470	A
32	2a	1475	G
32	2a	1481	A
32	2a	1482	G
32	2a	1484	U
32	2a	1485	A
32	2a	1495	G
32	2a	1497	MA6
32	2a	1498	G
32	2a	1507	G
32	2a	1508	G

All (60) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	301	A
1	1A	516	A
1	1A	715	G
1	1A	933	A
1	1A	934	C
1	1A	940	U
1	1A	1218	A
1	1A	1219	U
1	1A	1220	G
1	1A	1254	A
1	1A	1320	A
1	1A	1345	U
1	1A	1425	G
1	1A	1625	A
1	1A	1699	G
1	1A	1709	C
1	1A	2132	C
1	1A	2147	A
1	1A	2218	U
1	1A	2613	A
1	1A	2700	U
1	1A	2768	U
1	2A	8	U
1	2A	183	A
1	2A	202	G

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Mol	Chain	Res	Type
1	2A	272	G
1	2A	300	C
1	2A	357	C
1	2A	367	G
1	2A	668	A
1	2A	742	G
1	2A	798	A
1	2A	846	A
1	2A	902	C
1	2A	945	A
1	2A	1039	C
1	2A	1098	C
1	2A	1102	A
1	2A	1110	U
1	2A	1112	A
1	2A	1118	A
1	2A	1121	C
1	2A	1254	A
1	2A	1294	U
1	2A	1320	A
1	2A	1424	A
1	2A	1425	G
1	2A	1465	U
1	2A	1469	G
1	2A	1555	A
1	2A	1709	C
1	2A	1820	C
1	2A	2013	G
1	2A	2147	A
1	2A	2192	A
1	2A	2193	U
1	2A	2332	G
1	2A	2613	A
1	2A	2673	A
1	2A	2700	U

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

48 non-standard protein/DNA/RNA residues are modelled in this entry.

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	$\#\|Z\| > 2$
1	5MC	2A	1983	1	19,22,23	1.69	3 (15%)	26,32,35	1.11	2 (7%)
1	OMC	1A	1941	1	19,22,23	0.77	0	25,31,34	0.83	0
1	PSU	1A	2616	1	18,21,22	1.35	2 (11%)	21,30,33	2.06	4 (19%)
32	5MC	1a	1390	32	19,22,23	1.67	3 (15%)	26,32,35	1.12	2 (7%)
32	MA6	2a	1497	32	23,26,27	1.50	4 (17%)	33,38,41	2.47	14 (42%)
1	PSU	2A	1932	1	18,21,22	1.35	2 (11%)	21,30,33	2.05	4 (19%)
1	2MA	1A	2514	53,1	22,25,26	1.52	4 (18%)	32,37,40	2.27	9 (28%)
32	PSU	1a	500	53,32	18,21,22	1.35	2 (11%)	21,30,33	2.05	5 (23%)
32	G7M	2a	511	53,32	23,26,27	2.38	5 (21%)	34,39,42	3.08	10 (29%)
32	UR3	2a	1476	32	19,22,23	1.00	2 (10%)	26,32,35	1.72	2 (7%)
1	5MU	1A	1936	1	19,22,23	1.41	6 (31%)	27,32,35	2.08	7 (25%)
32	UR3	1a	1476	32	19,22,23	1.01	1 (5%)	26,32,35	1.73	2 (7%)
1	5MU	2A	1936	1	19,22,23	1.41	6 (31%)	27,32,35	2.09	7 (25%)
1	5MU	1A	1960	1	19,22,23	1.44	6 (31%)	27,32,35	2.13	6 (22%)
32	5MC	1a	945	32	19,22,23	1.68	3 (15%)	26,32,35	1.13	2 (7%)
32	5MC	1a	1387	32	19,22,23	1.70	3 (15%)	26,32,35	1.12	2 (7%)
1	5MU	2A	1960	53,1	19,22,23	1.42	6 (31%)	27,32,35	2.11	6 (22%)
32	G7M	1a	511	53,32	23,26,27	2.40	5 (21%)	34,39,42	3.04	10 (29%)
1	2MA	2A	2514	53,1	22,25,26	1.51	4 (18%)	32,37,40	2.27	9 (28%)
43	0TD	2l	92	43	8,9,10	4.42	1 (12%)	6,11,13	7.14	2 (33%)
32	5MC	1a	1383	32	19,22,23	1.68	3 (15%)	26,32,35	1.11	2 (7%)
32	5MC	2a	1387	32	19,22,23	1.61	3 (15%)	26,32,35	1.17	2 (7%)
43	0TD	1l	92	43	8,9,10	4.69	2 (25%)	6,11,13	10.16	2 (33%)
1	PSU	2A	2616	1	18,21,22	1.34	2 (11%)	21,30,33	2.06	4 (19%)
1	OMC	2A	1941	1	19,22,23	0.79	0	25,31,34	0.85	0
32	MA6	1a	1497	32	23,26,27	1.51	4 (17%)	33,38,41	2.46	12 (36%)
1	OMU	1A	2563	53,1	19,22,23	1.28	4 (21%)	25,31,34	1.88	6 (24%)
32	M2G	1a	944	32	24,27,28	1.30	4 (16%)	33,40,43	1.87	6 (18%)
32	5MC	2a	1383	32	19,22,23	1.68	3 (15%)	26,32,35	1.12	2 (7%)
32	PSU	2a	500	53,32	18,21,22	1.37	2 (11%)	21,30,33	2.02	5 (23%)
32	MA6	1a	1496	32	23,26,27	1.51	4 (17%)	33,38,41	2.41	13 (39%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	PSU	1A	1932	1	18,21,22	1.35	2 (11%)	21,30,33	2.04	5 (23%)
1	PSU	1A	1938	1	18,21,22	1.37	2 (11%)	21,30,33	2.04	4 (19%)
1	OMG	1A	2262	53,1	23,26,27	1.19	3 (13%)	32,38,41	1.94	6 (18%)
1	5MC	1A	1963	1	19,22,23	1.67	3 (15%)	26,32,35	1.12	2 (7%)
32	2MG	2a	1189	32	23,26,27	1.26	4 (17%)	33,38,41	2.15	5 (15%)
32	MA6	2a	1496	32	23,26,27	1.53	4 (17%)	33,38,41	2.35	13 (39%)
32	5MC	2a	1390	32	19,22,23	1.69	3 (15%)	26,32,35	1.12	2 (7%)
1	5MC	2A	1963	1	19,22,23	1.66	3 (15%)	26,32,35	1.10	2 (7%)
32	5MC	2a	945	32	19,22,23	1.67	3 (15%)	26,32,35	1.12	2 (7%)
1	PSU	2A	1938	1	18,21,22	1.36	2 (11%)	21,30,33	2.03	4 (19%)
32	2MG	1a	1189	53,32	23,26,27	1.23	3 (13%)	33,38,41	2.25	8 (24%)
32	4OC	2a	1385	32	20,23,24	0.77	0	25,32,35	0.91	1 (4%)
1	OMU	2A	2563	53,1	19,22,23	1.27	4 (21%)	25,31,34	1.92	6 (24%)
32	M2G	2a	944	32	24,27,28	1.30	4 (16%)	33,40,43	1.87	6 (18%)
1	OMG	2A	2262	53,1	23,26,27	1.18	3 (13%)	32,38,41	1.99	7 (21%)
32	4OC	1a	1385	32	20,23,24	0.77	0	25,32,35	0.95	1 (4%)
1	5MC	1A	1983	1	19,22,23	1.68	3 (15%)	26,32,35	1.12	2 (7%)

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
1	5MC	2A	1983	1	-	0/7/25/26	0/2/2/2
1	OMC	1A	1941	1	-	2/9/27/28	0/2/2/2
1	PSU	1A	2616	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1390	32	-	0/7/25/26	0/2/2/2
32	MA6	2a	1497	32	-	6/11/29/30	0/3/3/3
1	PSU	2A	1932	1	-	0/7/25/26	0/2/2/2
1	2MA	1A	2514	53,1	-	2/7/25/26	0/3/3/3
32	PSU	1a	500	53,32	-	2/7/25/26	0/2/2/2
32	G7M	2a	511	53,32	-	2/7/25/26	0/3/3/3
32	UR3	2a	1476	32	-	0/7/25/26	0/2/2/2
1	5MU	1A	1936	1	-	2/7/25/26	0/2/2/2
32	UR3	1a	1476	32	-	0/7/25/26	0/2/2/2
1	5MU	2A	1936	1	-	2/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MU	1A	1960	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	945	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1387	32	-	0/7/25/26	0/2/2/2
1	5MU	2A	1960	53,1	-	0/7/25/26	0/2/2/2
32	G7M	1a	511	53,32	-	2/7/25/26	0/3/3/3
1	2MA	2A	2514	53,1	-	2/7/25/26	0/3/3/3
43	0TD	2l	92	43	-	3/7/12/14	-
32	5MC	1a	1383	32	-	2/7/25/26	0/2/2/2
32	5MC	2a	1387	32	-	0/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	2/7/12/14	-
1	PSU	2A	2616	1	-	0/7/25/26	0/2/2/2
1	OMC	2A	1941	1	-	2/9/27/28	0/2/2/2
32	MA6	1a	1497	32	-	3/11/29/30	0/3/3/3
1	OMU	1A	2563	53,1	-	1/9/27/28	0/2/2/2
32	M2G	1a	944	32	-	0/11/29/30	0/3/3/3
32	5MC	2a	1383	32	-	2/7/25/26	0/2/2/2
32	PSU	2a	500	53,32	-	1/7/25/26	0/2/2/2
32	MA6	1a	1496	32	-	1/11/29/30	0/3/3/3
1	PSU	1A	1932	1	-	0/7/25/26	0/2/2/2
1	PSU	1A	1938	1	-	0/7/25/26	0/2/2/2
1	OMG	1A	2262	53,1	-	0/9/27/28	0/3/3/3
1	5MC	1A	1963	1	-	0/7/25/26	0/2/2/2
32	2MG	2a	1189	32	-	0/9/27/28	0/3/3/3
32	MA6	2a	1496	32	-	3/11/29/30	0/3/3/3
32	5MC	2a	1390	32	-	0/7/25/26	0/2/2/2
1	5MC	2A	1963	1	-	2/7/25/26	0/2/2/2
32	5MC	2a	945	32	-	0/7/25/26	0/2/2/2
1	PSU	2A	1938	1	-	0/7/25/26	0/2/2/2
32	2MG	1a	1189	53,32	-	0/9/27/28	0/3/3/3
32	4OC	2a	1385	32	-	2/9/29/30	0/2/2/2
1	OMU	2A	2563	53,1	-	0/9/27/28	0/2/2/2
32	M2G	2a	944	32	-	4/11/29/30	0/3/3/3
1	OMG	2A	2262	53,1	-	0/9/27/28	0/3/3/3
32	4OC	1a	1385	32	-	0/9/29/30	0/2/2/2
1	5MC	1A	1983	1	-	0/7/25/26	0/2/2/2

All (145) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.40	1.69	1.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.09	1.70	1.82
32	1a	511	G7M	C8-N7	7.86	1.46	1.33
32	2a	511	G7M	C8-N7	7.72	1.46	1.33
32	1a	1387	5MC	C5-C4	6.18	1.48	1.44
32	2a	1390	5MC	C5-C4	6.17	1.48	1.44
1	2A	1983	5MC	C5-C4	6.17	1.48	1.44
1	1A	1983	5MC	C5-C4	6.12	1.48	1.44
32	1a	1383	5MC	C5-C4	6.12	1.48	1.44
32	2a	1383	5MC	C5-C4	6.11	1.48	1.44
32	1a	945	5MC	C5-C4	6.10	1.48	1.44
1	1A	1963	5MC	C5-C4	6.06	1.48	1.44
32	1a	1390	5MC	C5-C4	6.05	1.48	1.44
32	2a	945	5MC	C5-C4	6.03	1.48	1.44
1	2A	1963	5MC	C5-C4	6.01	1.48	1.44
32	2a	1387	5MC	C5-C4	5.80	1.48	1.44
32	2a	1496	MA6	C5-C4	4.83	1.47	1.39
32	1a	1497	MA6	C5-C4	4.75	1.47	1.39
32	1a	1496	MA6	C5-C4	4.74	1.47	1.39
32	2a	1497	MA6	C5-C4	4.68	1.47	1.39
32	1a	511	G7M	C5-N7	-4.67	1.33	1.39
32	2a	511	G7M	C5-N7	-4.67	1.33	1.39
1	2A	2514	2MA	C5-C4	4.65	1.47	1.39
1	1A	2514	2MA	C5-C4	4.64	1.47	1.39
32	1a	511	G7M	C8-N9	4.11	1.46	1.35
32	2a	511	G7M	C8-N9	4.08	1.46	1.35
32	2a	511	G7M	C5-C4	3.85	1.47	1.38
43	1l	92	0TD	CB-CA	-3.78	1.53	1.54
32	1a	511	G7M	C5-C4	3.77	1.47	1.38
1	1A	1938	PSU	C6-C5	3.45	1.39	1.35
1	1A	2616	PSU	C6-C5	3.42	1.39	1.35
1	2A	1938	PSU	C6-C5	3.36	1.39	1.35
1	1A	1932	PSU	C6-C5	3.33	1.39	1.35
1	2A	2616	PSU	C6-C5	3.33	1.39	1.35
1	2A	1932	PSU	C6-C5	3.32	1.39	1.35
32	1a	500	PSU	C6-C5	3.31	1.39	1.35
32	2a	500	PSU	C6-C5	3.23	1.38	1.35
32	2a	944	M2G	C5-C4	3.22	1.47	1.38
32	1a	944	M2G	C5-C4	3.20	1.47	1.38
32	2a	1189	2MG	C5-C4	3.19	1.47	1.38
1	1A	2262	OMG	C5-C4	3.15	1.47	1.38
32	1a	1189	2MG	C5-C4	3.13	1.47	1.38
1	2A	2262	OMG	C5-C4	3.11	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1496	MA6	C5-C6	2.93	1.48	1.41
1	1A	1960	5MU	C6-C5	2.89	1.39	1.34
1	2A	1960	5MU	C6-C5	2.89	1.39	1.34
1	2A	1983	5MC	C6-C5	2.88	1.39	1.34
32	2a	944	M2G	C2-N2	2.88	1.40	1.35
32	2a	1383	5MC	C6-C5	2.87	1.39	1.34
32	1a	1387	5MC	C6-C5	2.87	1.39	1.34
1	1A	1963	5MC	C6-C5	2.85	1.39	1.34
32	1a	944	M2G	C2-N2	2.84	1.40	1.35
32	1a	1496	MA6	C5-C6	2.82	1.48	1.41
32	2a	1390	5MC	C6-C5	2.81	1.39	1.34
32	1a	1383	5MC	C6-C5	2.81	1.39	1.34
1	1A	1983	5MC	C6-C5	2.81	1.39	1.34
1	2A	1963	5MC	C6-C5	2.80	1.39	1.34
32	2a	945	5MC	C6-C5	2.79	1.39	1.34
1	1A	2514	2MA	C5-C6	2.77	1.48	1.41
32	2a	1497	MA6	C5-C6	2.77	1.48	1.41
1	1A	1936	5MU	C6-C5	2.77	1.39	1.34
32	1a	945	5MC	C6-C5	2.76	1.39	1.34
32	1a	1390	5MC	C6-C5	2.76	1.39	1.34
1	2A	2514	2MA	C5-C6	2.74	1.48	1.41
1	2A	1936	5MU	C6-C5	2.73	1.39	1.34
32	1a	1497	MA6	C5-C6	2.72	1.48	1.41
1	2A	2563	OMU	C4-N3	-2.67	1.34	1.38
32	2a	1387	5MC	C6-C5	2.66	1.38	1.34
32	2a	500	PSU	C4-N3	-2.65	1.33	1.38
1	2A	1936	5MU	C4-N3	-2.65	1.33	1.38
1	1A	2563	OMU	C4-N3	-2.65	1.34	1.38
1	1A	1960	5MU	C4-N3	-2.64	1.33	1.38
1	1A	1932	PSU	C4-N3	-2.62	1.33	1.38
1	2A	2616	PSU	C4-N3	-2.61	1.34	1.38
1	1A	1936	5MU	C4-N3	-2.60	1.34	1.38
1	2A	1960	5MU	C4-N3	-2.60	1.34	1.38
1	1A	2616	PSU	C4-N3	-2.58	1.34	1.38
1	2A	1932	PSU	C4-N3	-2.58	1.34	1.38
32	1a	500	PSU	C4-N3	-2.57	1.34	1.38
1	1A	1938	PSU	C4-N3	-2.57	1.34	1.38
1	2A	1938	PSU	C4-N3	-2.56	1.34	1.38
32	2a	1189	2MG	C6-N1	-2.54	1.34	1.38
1	1A	1960	5MU	C4-C5	2.49	1.48	1.44
32	1a	944	M2G	C6-N1	-2.46	1.34	1.38
1	2A	2262	OMG	C6-N1	-2.46	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1936	5MU	C2-N1	2.44	1.42	1.38
32	2a	944	M2G	C6-N1	-2.44	1.34	1.38
1	2A	1960	5MU	C4-C5	2.42	1.48	1.44
1	1A	2514	2MA	C8-N7	2.41	1.36	1.31
1	1A	2262	OMG	C6-N1	-2.39	1.34	1.38
32	1a	1497	MA6	C5-N7	-2.38	1.34	1.39
1	2A	1936	5MU	C2-N1	2.38	1.42	1.38
1	2A	2514	2MA	C8-N7	2.37	1.36	1.31
1	2A	1936	5MU	C4-C5	2.36	1.48	1.44
32	1a	1496	MA6	C8-N7	2.34	1.36	1.31
1	1A	2563	OMU	C5-C4	2.34	1.48	1.43
1	2A	2563	OMU	C5-C4	2.34	1.48	1.43
32	2a	1496	MA6	C8-N7	2.34	1.36	1.31
32	1a	1390	5MC	C6-N1	-2.31	1.34	1.38
32	1a	1189	2MG	C6-N1	-2.31	1.34	1.38
1	1A	1936	5MU	C4-C5	2.30	1.48	1.44
32	2a	511	G7M	C6-N1	-2.29	1.34	1.38
32	2a	1497	MA6	C8-N7	2.29	1.36	1.31
32	2a	1189	2MG	C2-N3	2.26	1.36	1.32
32	2a	1497	MA6	C5-N7	-2.26	1.35	1.39
32	1a	1496	MA6	C5-N7	-2.25	1.35	1.39
32	1a	511	G7M	C6-N1	-2.24	1.34	1.38
32	1a	1387	5MC	C6-N1	-2.24	1.34	1.38
1	2A	1963	5MC	C6-N1	-2.23	1.34	1.38
32	2a	1387	5MC	C6-N1	-2.23	1.34	1.38
32	2a	1390	5MC	C6-N1	-2.22	1.34	1.38
1	2A	2514	2MA	C5-N7	-2.22	1.35	1.39
1	1A	1960	5MU	C6-N1	-2.22	1.34	1.38
32	1a	945	5MC	C6-N1	-2.21	1.34	1.38
1	1A	2514	2MA	C5-N7	-2.21	1.35	1.39
32	2a	1383	5MC	C6-N1	-2.21	1.34	1.38
1	2A	1960	5MU	C2-N1	2.21	1.41	1.38
1	1A	1963	5MC	C6-N1	-2.21	1.34	1.38
1	1A	1936	5MU	C6-N1	-2.20	1.34	1.38
32	2a	945	5MC	C6-N1	-2.20	1.34	1.38
1	2A	1983	5MC	C6-N1	-2.19	1.34	1.38
1	1A	1983	5MC	C6-N1	-2.18	1.34	1.38
32	1a	1383	5MC	C6-N1	-2.18	1.34	1.38
1	1A	1960	5MU	C2-N3	-2.17	1.34	1.38
1	2A	1960	5MU	C6-N1	-2.17	1.34	1.38
32	1a	1476	UR3	C2-N1	2.16	1.41	1.38
32	1a	1189	2MG	C2-N3	2.16	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	1497	MA6	C8-N7	2.14	1.35	1.31
32	2a	1496	MA6	C5-N7	-2.14	1.35	1.39
1	1A	2563	OMU	C2-N1	2.13	1.41	1.38
1	2A	1936	5MU	C6-N1	-2.13	1.34	1.38
32	1a	944	M2G	C5-N7	-2.12	1.34	1.39
1	1A	1960	5MU	C2-N1	2.11	1.41	1.38
32	2a	944	M2G	C5-N7	-2.08	1.34	1.39
32	2a	1189	2MG	C5-N7	-2.07	1.34	1.39
32	2a	1476	UR3	C2-N1	2.07	1.41	1.38
1	1A	2262	OMG	C5-N7	-2.06	1.35	1.39
1	2A	2563	OMU	C2-N1	2.04	1.41	1.38
1	1A	2563	OMU	C2-N3	-2.04	1.34	1.38
1	2A	1936	5MU	C2-N3	-2.04	1.34	1.38
1	1A	1936	5MU	C2-N3	-2.03	1.34	1.38
1	2A	1960	5MU	C2-N3	-2.02	1.34	1.38
1	2A	2563	OMU	C2-N3	-2.01	1.34	1.38
1	2A	2262	OMG	C5-N7	-2.00	1.35	1.39
32	2a	1476	UR3	C6-C5	2.00	1.39	1.35

All (235) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	1l	92	0TD	CSB-SB-CB	-24.62	58.11	102.36
43	2l	92	0TD	CSB-SB-CB	-17.13	71.57	102.36
1	1A	2514	2MA	C5-C4-N3	-7.94	118.82	127.18
1	2A	2514	2MA	C5-C4-N3	-7.89	118.86	127.18
32	2a	511	G7M	CN7-N7-C8	-7.85	112.91	124.79
32	1a	511	G7M	CN7-N7-C8	-7.76	113.04	124.79
32	1a	1189	2MG	C2-N3-C4	7.22	121.03	112.00
32	2a	1189	2MG	C2-N3-C4	7.11	120.90	112.00
32	2a	1476	UR3	C4-N3-C2	-6.91	119.02	124.58
32	1a	511	G7M	N9-C8-N7	-6.90	95.72	112.48
32	1a	1476	UR3	C4-N3-C2	-6.88	119.05	124.58
32	2a	511	G7M	N9-C8-N7	-6.87	95.80	112.48
32	2a	511	G7M	N9-C4-N3	6.73	139.41	125.95
32	2a	511	G7M	C8-N7-C5	6.58	116.01	107.78
32	1a	511	G7M	C8-N7-C5	6.57	116.00	107.78
32	1a	511	G7M	N9-C4-N3	6.53	139.00	125.95
1	2A	1932	PSU	N1-C2-N3	6.45	121.98	115.17
1	2A	2616	PSU	N1-C2-N3	6.41	121.93	115.17
1	1A	2616	PSU	N1-C2-N3	6.41	121.93	115.17
1	2A	1938	PSU	N1-C2-N3	6.40	121.92	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1938	PSU	N1-C2-N3	6.39	121.91	115.17
1	1A	1932	PSU	N1-C2-N3	6.33	121.84	115.17
32	1a	500	PSU	N1-C2-N3	6.24	121.75	115.17
32	2a	944	M2G	C5-C4-N3	-6.23	118.47	128.39
32	1a	944	M2G	C5-C4-N3	-6.21	118.50	128.39
32	2a	1189	2MG	C5-C4-N3	-6.18	118.56	128.39
1	2A	2514	2MA	N3-C4-N9	6.11	134.75	126.99
32	2a	500	PSU	N1-C2-N3	6.10	121.61	115.17
32	1a	1189	2MG	C5-C4-N3	-6.10	118.68	128.39
1	2A	2262	OMG	C5-C4-N3	-6.06	118.74	128.39
1	1A	2514	2MA	N3-C4-N9	6.03	134.64	126.99
32	1a	1497	MA6	C5-C4-N3	-5.92	118.56	126.72
1	1A	2262	OMG	C5-C4-N3	-5.91	118.98	128.39
32	1a	1496	MA6	C5-C4-N3	-5.82	118.71	126.72
32	2a	1497	MA6	C5-C4-N3	-5.74	118.82	126.72
32	2a	1496	MA6	C5-C4-N3	-5.65	118.93	126.72
32	2a	511	G7M	C5-C4-N3	-5.59	117.59	128.15
32	1a	511	G7M	C5-C4-N3	-5.49	117.78	128.15
1	1A	1960	5MU	C4-N3-C2	-5.28	120.42	127.34
1	2A	1960	5MU	C4-N3-C2	-5.21	120.50	127.34
1	1A	1960	5MU	N3-C2-N1	5.19	121.65	114.89
1	2A	1960	5MU	N3-C2-N1	5.15	121.59	114.89
1	2A	1936	5MU	N3-C2-N1	5.06	121.47	114.89
1	2A	2262	OMG	C2-N3-C4	5.03	120.97	112.30
1	1A	1936	5MU	N3-C2-N1	5.03	121.44	114.89
1	1A	2262	OMG	C2-N3-C4	5.01	120.92	112.30
1	1A	2563	OMU	N3-C2-N1	4.96	121.35	114.89
32	1a	1497	MA6	N3-C4-N9	4.94	135.56	127.17
1	1A	1936	5MU	C4-N3-C2	-4.93	120.87	127.34
1	2A	1936	5MU	C4-N3-C2	-4.91	120.90	127.34
1	2A	2563	OMU	N3-C2-N1	4.89	121.25	114.89
1	2A	2563	OMU	C4-N3-C2	-4.78	120.68	126.61
1	1A	2563	OMU	C4-N3-C2	-4.76	120.71	126.61
32	2a	944	M2G	N9-C4-N3	4.73	135.42	125.95
32	2a	511	G7M	C1'-N9-C8	-4.69	110.92	126.74
1	2A	2262	OMG	N9-C4-N3	4.66	135.27	125.95
32	2a	1497	MA6	N3-C4-N9	4.65	135.08	127.17
32	1a	944	M2G	N9-C4-N3	4.65	135.26	125.95
32	2a	1189	2MG	N9-C4-N3	4.62	135.19	125.95
32	1a	1496	MA6	N3-C4-N9	4.60	135.00	127.17
32	2a	1497	MA6	C9-N6-C6	-4.54	108.96	120.52
32	2a	944	M2G	C2-N3-C4	4.54	120.90	112.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	944	M2G	C2-N3-C4	4.54	120.90	112.51
32	2a	511	G7M	C8-N9-C4	4.47	118.16	107.09
32	2a	1497	MA6	C10-N6-C6	-4.46	109.18	120.52
32	2a	1496	MA6	C9-N6-C6	-4.45	109.20	120.52
32	1a	511	G7M	C8-N9-C4	4.45	118.10	107.09
32	1a	511	G7M	C2-N3-C4	4.43	119.93	112.30
1	1A	2262	OMG	N9-C4-N3	4.43	134.80	125.95
1	1A	1960	5MU	C5-C4-N3	4.42	119.16	115.32
32	2a	511	G7M	C2-N3-C4	4.41	119.90	112.30
32	2a	1496	MA6	N3-C4-N9	4.37	134.60	127.17
32	1a	1189	2MG	N9-C4-N3	4.37	134.68	125.95
1	2A	1960	5MU	C5-C4-N3	4.34	119.10	115.32
32	1a	1496	MA6	C9-N6-C6	-4.32	109.54	120.52
32	1a	500	PSU	C4-N3-C2	-4.29	120.46	126.37
32	1a	511	G7M	C1'-N9-C8	-4.25	112.40	126.74
32	1a	1496	MA6	C10-N6-C6	-4.24	109.73	120.52
32	2a	500	PSU	C4-N3-C2	-4.21	120.58	126.37
1	1A	1936	5MU	C5-C4-N3	4.20	118.97	115.32
1	1A	2616	PSU	C4-N3-C2	-4.19	120.60	126.37
32	1a	1497	MA6	C10-N6-C6	-4.19	109.87	120.52
1	2A	2616	PSU	C4-N3-C2	-4.18	120.61	126.37
32	2a	1496	MA6	C2-N1-C6	4.18	122.04	111.83
32	1a	1497	MA6	C9-N6-C6	-4.17	109.92	120.52
1	2A	1936	5MU	C5-C4-N3	4.16	118.94	115.32
1	1A	1932	PSU	C4-N3-C2	-4.16	120.65	126.37
1	2A	1932	PSU	C4-N3-C2	-4.12	120.70	126.37
32	1a	1497	MA6	N1-C6-N6	4.10	121.85	116.86
1	1A	1938	PSU	C4-N3-C2	-4.07	120.76	126.37
32	1a	1496	MA6	C2-N1-C6	4.07	121.77	111.83
1	2A	1938	PSU	C4-N3-C2	-4.07	120.77	126.37
32	2a	1497	MA6	C2-N1-C6	4.03	121.66	111.83
32	1a	1497	MA6	C2-N1-C6	4.00	121.61	111.83
1	1A	1960	5MU	C5-C6-N1	-3.97	119.00	123.31
32	2a	1497	MA6	N1-C6-N6	3.87	121.57	116.86
1	2A	1960	5MU	O4-C4-C5	-3.87	120.49	124.92
1	1A	1960	5MU	O4-C4-C5	-3.84	120.52	124.92
1	1A	1936	5MU	O4-C4-C5	-3.83	120.54	124.92
1	2A	1936	5MU	O4-C4-C5	-3.81	120.56	124.92
1	2A	1960	5MU	C5-C6-N1	-3.80	119.18	123.31
32	2a	1496	MA6	C4-C5-N7	-3.77	106.27	110.58
1	1A	1938	PSU	O2-C2-N1	-3.72	118.95	122.79
32	1a	1496	MA6	C2-N3-C4	3.69	120.85	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1496	MA6	C10-N6-C6	-3.67	111.19	120.52
32	2a	1496	MA6	C2-N3-C4	3.66	120.77	111.83
32	1a	1497	MA6	C2-N3-C4	3.65	120.74	111.83
1	2A	1932	PSU	O2-C2-N1	-3.64	119.03	122.79
1	2A	1938	PSU	O2-C2-N1	-3.64	119.03	122.79
32	2a	1497	MA6	C2-N3-C4	3.63	120.70	111.83
1	1A	2514	2MA	C4-C5-N7	-3.63	106.44	110.58
1	2A	2616	PSU	O2-C2-N1	-3.59	119.08	122.79
32	2a	500	PSU	O2-C2-N1	-3.57	119.11	122.79
1	1A	2616	PSU	O2-C2-N1	-3.56	119.12	122.79
1	1A	1983	5MC	C5-C6-N1	-3.55	119.46	123.31
1	2A	1983	5MC	C5-C6-N1	-3.54	119.47	123.31
1	1A	1932	PSU	O2-C2-N1	-3.51	119.17	122.79
32	1a	500	PSU	O2-C2-N1	-3.50	119.18	122.79
1	1A	1963	5MC	C5-C6-N1	-3.50	119.52	123.31
32	1a	1496	MA6	N1-C6-N6	3.49	121.11	116.86
1	2A	2514	2MA	C4-C5-N7	-3.49	106.59	110.58
32	1a	1496	MA6	C4-C5-N7	-3.47	106.62	110.58
32	2a	1383	5MC	C5-C6-N1	-3.46	119.56	123.31
32	1a	1387	5MC	C5-C6-N1	-3.45	119.56	123.31
32	2a	511	G7M	CN7-N7-C5	3.44	131.09	126.80
32	1a	1189	2MG	C6-C5-N7	3.44	136.55	130.29
32	2a	1390	5MC	C5-C6-N1	-3.43	119.58	123.31
1	2A	1963	5MC	C5-C6-N1	-3.38	119.64	123.31
32	2a	1476	UR3	C5-C4-N3	3.35	119.45	115.04
32	2a	945	5MC	C5-C6-N1	-3.35	119.68	123.31
32	1a	511	G7M	CN7-N7-C5	3.34	130.97	126.80
1	2A	2563	OMU	C2'-C1'-N1	-3.32	107.94	114.24
32	1a	945	5MC	C5-C6-N1	-3.32	119.71	123.31
32	2a	1497	MA6	C4-C5-N7	-3.31	106.80	110.58
32	2a	1387	5MC	C5-C6-N1	-3.29	119.74	123.31
32	1a	1383	5MC	C5-C6-N1	-3.29	119.75	123.31
32	1a	1476	UR3	C5-C4-N3	3.28	119.36	115.04
1	1A	2262	OMG	C6-C5-N7	3.27	136.23	130.29
32	2a	1496	MA6	N1-C2-N3	-3.26	123.65	128.58
1	2A	2262	OMG	C6-C5-N7	3.24	136.18	130.29
32	1a	1496	MA6	N1-C2-N3	-3.23	123.70	128.58
1	2A	2563	OMU	C5-C4-N3	3.20	119.28	114.80
32	1a	1390	5MC	C5-C6-N1	-3.19	119.85	123.31
32	1a	1497	MA6	C4-C5-N7	-3.18	106.94	110.58
1	2A	1936	5MU	C5-C6-N1	-3.17	119.87	123.31
32	2a	1497	MA6	N1-C2-N3	-3.17	123.79	128.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1936	5MU	C5-C6-N1	-3.14	119.90	123.31
1	1A	2563	OMU	C5-C4-N3	3.14	119.19	114.80
32	1a	1497	MA6	N1-C2-N3	-3.11	123.87	128.58
32	2a	1189	2MG	C6-C5-N7	3.09	135.92	130.29
32	1a	944	M2G	C6-C5-N7	3.06	135.85	130.29
32	1a	1497	MA6	C5-C6-N6	-3.04	120.51	125.33
1	2A	2514	2MA	N6-C6-N1	3.01	121.08	117.03
32	2a	944	M2G	C6-C5-N7	2.99	135.73	130.29
32	2a	1497	MA6	C5-C6-N6	-2.95	120.67	125.33
1	1A	2514	2MA	N6-C6-N1	2.85	120.87	117.03
1	2A	2514	2MA	C2-N1-C6	2.81	122.42	118.10
1	2A	2563	OMU	O4-C4-C5	-2.80	120.33	125.16
1	1A	2514	2MA	C2-N1-C6	2.79	122.39	118.10
32	2a	1497	MA6	C4-N9-C8	2.79	108.67	105.74
1	1A	1960	5MU	O2-C2-N1	-2.78	119.18	122.80
1	2A	1960	5MU	O2-C2-N1	-2.76	119.21	122.80
32	1a	1189	2MG	C4-C5-N7	-2.75	106.31	110.67
1	1A	2563	OMU	C2'-C1'-N1	-2.75	109.03	114.24
1	1A	2563	OMU	O4-C4-C5	-2.74	120.43	125.16
32	1a	1497	MA6	C4-N9-C8	2.73	108.60	105.74
1	2A	2514	2MA	C4-N9-C8	2.71	108.59	105.74
32	1a	945	5MC	C5-C4-N3	-2.69	119.00	121.75
32	1a	1383	5MC	C5-C4-N3	-2.69	119.00	121.75
32	2a	1383	5MC	C5-C4-N3	-2.69	119.00	121.75
32	2a	945	5MC	C5-C4-N3	-2.69	119.00	121.75
32	2a	1496	MA6	C5-N7-C8	2.67	107.65	103.45
32	2a	1496	MA6	N1-C6-N6	2.67	120.11	116.86
32	2a	1496	MA6	C4-N9-C8	2.67	108.54	105.74
32	1a	1387	5MC	C5-C4-N3	-2.66	119.03	121.75
1	1A	2514	2MA	C4-N9-C8	2.66	108.53	105.74
32	1a	511	G7M	O6-C6-C5	-2.65	122.10	128.01
32	1a	1390	5MC	C5-C4-N3	-2.64	119.05	121.75
1	2A	2563	OMU	O2-C2-N1	-2.64	119.36	122.80
1	2A	1983	5MC	C5-C4-N3	-2.63	119.06	121.75
32	2a	1387	5MC	C5-C4-N3	-2.63	119.06	121.75
1	1A	1983	5MC	C5-C4-N3	-2.63	119.06	121.75
1	1A	2563	OMU	O2-C2-N1	-2.63	119.37	122.80
32	1a	1496	MA6	C5-C6-N6	-2.63	121.18	125.33
32	1a	1496	MA6	C4-N9-C8	2.62	108.49	105.74
1	1A	1963	5MC	C5-C4-N3	-2.62	119.07	121.75
43	1l	92	0TD	OD2-CG-CB	2.61	118.78	113.15
1	1A	2514	2MA	C5-N7-C8	2.60	107.54	103.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	511	G7M	O6-C6-C5	-2.60	122.21	128.01
32	2a	1390	5MC	C5-C4-N3	-2.58	119.11	121.75
1	2A	1963	5MC	C5-C4-N3	-2.56	119.13	121.75
32	1a	1496	MA6	C5-N7-C8	2.53	107.43	103.45
1	2A	2514	2MA	C5-N7-C8	2.52	107.42	103.45
32	2a	1189	2MG	C4-C5-N7	-2.48	106.74	110.67
32	2a	1497	MA6	C5-N7-C8	2.48	107.35	103.45
32	1a	944	M2G	C4-C5-N7	-2.48	106.74	110.67
32	2a	1497	MA6	C10-N6-C9	-2.47	108.24	116.18
43	2l	92	0TD	OD2-CG-CB	2.47	118.48	113.15
32	2a	500	PSU	C5-C6-N1	-2.45	118.74	122.14
1	1A	2262	OMG	C4-C5-N7	-2.45	106.79	110.67
32	1a	1497	MA6	C5-N7-C8	2.44	107.28	103.45
32	1a	1385	4OC	C6-C5-C4	2.42	119.92	117.00
32	1a	500	PSU	C5-C6-N1	-2.42	118.79	122.14
1	2A	1936	5MU	C1'-N1-C2	2.41	121.93	117.59
32	2a	944	M2G	C4-C5-N7	-2.41	106.85	110.67
1	1A	1936	5MU	C1'-N1-C2	2.41	121.92	117.59
1	2A	2262	OMG	C4-C5-N7	-2.37	106.91	110.67
32	2a	1385	4OC	C6-C5-C4	2.33	119.81	117.00
1	1A	2514	2MA	C6-C5-N7	2.28	136.49	132.09
1	2A	2262	OMG	O6-C6-C5	-2.23	120.64	126.53
1	2A	2616	PSU	C5-C6-N1	-2.22	119.06	122.14
1	1A	2616	PSU	C5-C6-N1	-2.22	119.06	122.14
1	2A	2514	2MA	C6-C5-N7	2.20	136.34	132.09
1	1A	1932	PSU	C5-C6-N1	-2.18	119.11	122.14
32	1a	500	PSU	O4'-C1'-C2'	2.16	108.14	105.15
32	2a	500	PSU	O4'-C1'-C2'	2.16	108.14	105.15
32	1a	944	M2G	O6-C6-C5	-2.13	120.90	126.53
32	1a	1189	2MG	N1-C2-N2	2.12	118.73	116.56
1	2A	1932	PSU	C5-C6-N1	-2.12	119.19	122.14
1	1A	2262	OMG	O6-C6-C5	-2.10	120.98	126.53
1	1A	2514	2MA	N9-C8-N7	-2.10	110.96	113.94
32	2a	944	M2G	O6-C6-C5	-2.10	121.00	126.53
32	2a	1496	MA6	C10-N6-C9	-2.08	109.50	116.18
1	2A	1938	PSU	C5-C6-N1	-2.07	119.27	122.14
1	2A	2514	2MA	N9-C8-N7	-2.06	111.02	113.94
32	1a	1189	2MG	O6-C6-C5	-2.05	121.12	126.53
32	1a	1496	MA6	C10-N6-C9	-2.04	109.63	116.18
1	2A	2262	OMG	C5-C6-N1	2.03	118.42	113.25
32	2a	1496	MA6	N9-C8-N7	-2.02	111.07	113.94
1	1A	1936	5MU	C1'-N1-C6	-2.02	117.83	121.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	1936	5MU	C1'-N1-C6	-2.02	117.83	121.15
32	1a	1189	2MG	C2-N1-C6	-2.02	122.11	124.55
32	2a	1497	MA6	N9-C8-N7	-2.01	111.08	113.94
1	1A	1932	PSU	O4'-C1'-C2'	2.01	107.93	105.15
1	1A	1938	PSU	C5-C6-N1	-2.00	119.36	122.14

There are no chirality outliers.

All (50) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
43	2l	92	0TD	CG-CB-SB-CSB
1	1A	1936	5MU	O4'-C1'-N1-C2
1	1A	1936	5MU	O4'-C1'-N1-C6
1	2A	1936	5MU	O4'-C1'-N1-C2
1	2A	1936	5MU	O4'-C1'-N1-C6
1	2A	1963	5MC	O4'-C4'-C5'-O5'
32	2a	944	M2G	N1-C2-N2-CM1
32	1a	1383	5MC	O4'-C4'-C5'-O5'
32	2a	1383	5MC	O4'-C4'-C5'-O5'
32	2a	1496	MA6	C5-C6-N6-C9
32	1a	1497	MA6	O4'-C4'-C5'-O5'
32	2a	1497	MA6	O4'-C4'-C5'-O5'
32	2a	1497	MA6	C5-C6-N6-C9
32	2a	511	G7M	C3'-C4'-C5'-O5'
32	1a	1383	5MC	C3'-C4'-C5'-O5'
32	2a	1385	4OC	O4'-C4'-C5'-O5'
1	2A	1963	5MC	C3'-C4'-C5'-O5'
32	2a	1383	5MC	C3'-C4'-C5'-O5'
32	1a	1497	MA6	C3'-C4'-C5'-O5'
32	2a	1497	MA6	N1-C6-N6-C9
32	2a	1497	MA6	C3'-C4'-C5'-O5'
32	2a	1496	MA6	N1-C6-N6-C9
32	2a	511	G7M	O4'-C4'-C5'-O5'
32	2a	1385	4OC	C3'-C4'-C5'-O5'
1	2A	2514	2MA	O4'-C4'-C5'-O5'
32	1a	1496	MA6	C5-C6-N6-C10
32	1a	1497	MA6	C5-C6-N6-C10
1	2A	1941	OMC	C3'-C2'-O2'-CM2
1	2A	2514	2MA	C3'-C4'-C5'-O5'
32	2a	1496	MA6	C5-C6-N6-C10
32	2a	1497	MA6	C5-C6-N6-C10
32	2a	944	M2G	N3-C2-N2-CM1

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Mol	Chain	Res	Type	Atoms
32	2a	944	M2G	N3-C2-N2-CM2
32	2a	1497	MA6	C4'-C5'-O5'-P
32	2a	944	M2G	N1-C2-N2-CM2
32	1a	511	G7M	C4'-C5'-O5'-P
43	1l	92	0TD	SB-CB-CG-OD2
43	2l	92	0TD	CA-CB-SB-CSB
43	2l	92	0TD	SB-CB-CG-OD2
1	1A	2563	OMU	O4'-C4'-C5'-O5'
32	1a	500	PSU	O4'-C1'-C5-C6
32	2a	500	PSU	O4'-C1'-C5-C6
1	1A	1941	OMC	C2'-C1'-N1-C6
1	1A	1941	OMC	C2'-C1'-N1-C2
43	1l	92	0TD	CG-CB-SB-CSB
32	1a	500	PSU	C2'-C1'-C5-C6
1	1A	2514	2MA	O4'-C1'-N9-C8
32	1a	511	G7M	C3'-C4'-C5'-O5'
1	2A	1941	OMC	C2'-C1'-N1-C2
1	1A	2514	2MA	O4'-C4'-C5'-O5'

There are no ring outliers.

44 monomers are involved in 143 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	2A	1983	5MC	2	0
1	1A	1941	OMC	5	0
1	1A	2616	PSU	3	0
32	1a	1390	5MC	3	0
32	2a	1497	MA6	5	0
1	2A	1932	PSU	1	0
1	1A	2514	2MA	4	0
32	1a	500	PSU	2	0
32	2a	511	G7M	1	0
1	1A	1936	5MU	3	0
32	1a	1476	UR3	1	0
1	2A	1936	5MU	2	0
1	1A	1960	5MU	3	0
32	1a	945	5MC	1	0
32	1a	1387	5MC	2	0
1	2A	1960	5MU	1	0
1	2A	2514	2MA	4	0
43	2l	92	0TD	5	0
32	1a	1383	5MC	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	2a	1387	5MC	5	0
43	1l	92	0TD	6	0
1	2A	1941	OMC	7	0
32	1a	1497	MA6	11	0
1	1A	2563	OMU	1	0
32	1a	944	M2G	3	0
32	2a	1383	5MC	3	0
32	2a	500	PSU	1	0
32	1a	1496	MA6	5	0
1	1A	1932	PSU	1	0
1	1A	1938	PSU	2	0
1	1A	2262	OMG	3	0
1	1A	1963	5MC	1	0
32	2a	1189	2MG	7	0
32	2a	1496	MA6	9	0
1	2A	1963	5MC	4	0
32	2a	945	5MC	4	0
1	2A	1938	PSU	1	0
32	1a	1189	2MG	5	0
32	2a	1385	4OC	7	0
1	2A	2563	OMU	2	0
32	2a	944	M2G	3	0
1	2A	2262	OMG	6	0
32	1a	1385	4OC	3	0
1	1A	1983	5MC	3	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1955 ligands modelled in this entry, 1942 are monoatomic - leaving 13 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	$\#\|Z\|>2$
55	MPD	2A	3552	-	7,7,7	0.31	0	9,10,10	0.22	0
55	MPD	2A	3551	-	7,7,7	0.31	0	9,10,10	0.21	0
55	MPD	2B	210	-	7,7,7	0.29	0	9,10,10	0.20	0
58	SF4	2d	501	35	0,12,12	-	-	-		
56	FSD	2A	3553	-	44,47,47	1.49	6 (13%)	57,69,69	2.33	20 (35%)
55	MPD	18	104	-	7,7,7	0.32	0	9,10,10	0.25	0
55	MPD	1a	1900	-	7,7,7	0.33	0	9,10,10	0.23	0
54	ARG	1B	223	53	10,11,11	0.76	1 (10%)	9,13,13	0.91	1 (11%)
55	MPD	1A	3800	53	7,7,7	0.31	0	9,10,10	0.24	0
58	SF4	1d	501	35	0,12,12	-	-	-		
54	ARG	1A	3799	-	10,11,11	0.76	1 (10%)	9,13,13	0.91	1 (11%)
55	MPD	1T	8004	-	7,7,7	0.31	0	9,10,10	0.30	0
56	FSD	1A	3801	-	44,47,47	1.17	6 (13%)	57,69,69	1.52	7 (12%)

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
55	MPD	2A	3552	-	-	4/5/5/5	-
55	MPD	2A	3551	-	-	4/5/5/5	-
55	MPD	2B	210	-	-	1/5/5/5	-
58	SF4	2d	501	35	-	-	0/6/5/5
56	FSD	2A	3553	-	-	12/31/66/66	0/4/4/4
55	MPD	18	104	-	-	3/5/5/5	-
55	MPD	1a	1900	-	-	4/5/5/5	-
54	ARG	1B	223	53	-	1/11/11/11	-
55	MPD	1A	3800	53	-	3/5/5/5	-
58	SF4	1d	501	35	-	-	0/6/5/5
54	ARG	1A	3799	-	-	0/11/11/11	-
55	MPD	1T	8004	-	-	4/5/5/5	-
56	FSD	1A	3801	-	-	6/31/66/66	0/4/4/4

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	2A	3553	FSD	OAY-CBM	-3.79	1.37	1.42
56	2A	3553	FSD	CBF-NAX	-3.75	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	2A	3553	FSD	CBF-NAV	-3.57	1.26	1.32
56	1A	3801	FSD	CBG-NAV	2.87	1.42	1.36
56	2A	3553	FSD	CBO-NBP	2.74	1.57	1.48
56	2A	3553	FSD	CAC-NBP	2.68	1.55	1.46
56	1A	3801	FSD	CAC-NBP	2.60	1.55	1.46
56	1A	3801	FSD	CBO-NBP	2.45	1.56	1.48
56	1A	3801	FSD	CAD-NBP	2.42	1.54	1.46
54	1A	3799	ARG	OXT-C	-2.25	1.23	1.30
56	1A	3801	FSD	CAQ-CBF	2.23	1.46	1.41
54	1B	223	ARG	OXT-C	-2.23	1.23	1.30
56	1A	3801	FSD	CBF-NAV	-2.18	1.29	1.32
56	2A	3553	FSD	CAD-NBP	2.00	1.53	1.46

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	1A	3801	FSD	OAY-CBM-NBQ	7.03	113.40	105.77
56	2A	3553	FSD	CBM-NBQ-CBG	6.83	129.55	117.83
56	2A	3553	FSD	OAH-CBC-CBR	-6.77	112.35	120.24
56	2A	3553	FSD	CBH-OAY-CBM	5.10	119.98	113.00
56	2A	3553	FSD	CBM-NBQ-CAR	-4.64	112.40	121.53
56	2A	3553	FSD	CBN-CBJ-CBK	-4.30	100.96	110.01
56	2A	3553	FSD	OBA-CBN-CBJ	4.13	118.25	108.09
56	2A	3553	FSD	CAC-NBP-CBO	3.91	124.69	113.25
56	1A	3801	FSD	NAX-CBF-NAV	3.17	119.01	113.87
56	1A	3801	FSD	CBF-NAV-CBG	3.13	124.25	120.11
56	1A	3801	FSD	CBM-NBQ-CBG	2.91	122.82	117.83
56	2A	3553	FSD	OAL-CBK-CBJ	-2.81	103.75	110.38
56	2A	3553	FSD	CBN-OAZ-CBI	-2.74	108.95	113.63
56	2A	3553	FSD	OBA-CBL-CAT	2.68	116.46	109.44
54	1A	3799	ARG	OXT-C-O	-2.65	118.06	124.08
54	1B	223	ARG	OXT-C-O	-2.63	118.11	124.08
56	2A	3553	FSD	CAN-CBD-NAW	-2.48	112.09	120.41
56	2A	3553	FSD	CBF-NAV-CBG	2.37	123.23	120.11
56	1A	3801	FSD	CAQ-CBF-NAV	-2.37	118.90	122.60
56	2A	3553	FSD	CAM-CBD-NAW	2.35	128.32	120.41
56	2A	3553	FSD	CAD-NBP-CAC	-2.32	103.67	110.49
56	1A	3801	FSD	CBD-NAW-CBC	2.32	130.97	126.86
56	2A	3553	FSD	CBN-OBA-CBL	2.24	119.01	115.27
56	2A	3553	FSD	OAI-CBG-NAV	-2.18	118.90	122.33
56	2A	3553	FSD	NAX-CBF-NAV	2.13	117.33	113.87
56	2A	3553	FSD	OAI-CBG-NBQ	2.12	123.05	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	2A	3553	FSD	CAQ-CBF-NAV	-2.09	119.33	122.60
56	1A	3801	FSD	CAN-CBD-NAW	-2.04	113.56	120.41
56	2A	3553	FSD	CBE-CBB-NAX	-2.04	113.31	116.25

There are no chirality outliers.

All (42) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
55	1A	3800	MPD	O2-C2-C3-C4
55	1A	3800	MPD	CM-C2-C3-C4
55	1T	8004	MPD	C1-C2-C3-C4
55	1T	8004	MPD	O2-C2-C3-C4
55	1a	1900	MPD	C2-C3-C4-O4
55	1a	1900	MPD	C2-C3-C4-C5
56	1A	3801	FSD	CAQ-CBF-NAX-CBB
56	1A	3801	FSD	NAV-CBF-NAX-CBB
56	2A	3553	FSD	CAQ-CBF-NAX-CBB
56	2A	3553	FSD	NAV-CBF-NAX-CBB
56	2A	3553	FSD	CBI-CBO-NBP-CAC
56	2A	3553	FSD	OAZ-CBN-OBA-CBL
56	2A	3553	FSD	CAN-CBD-NAW-CBC
56	2A	3553	FSD	CAM-CBD-NAW-CBC
56	1A	3801	FSD	OAH-CBC-CBR-CAE
56	2A	3553	FSD	OAH-CBC-CBR-CAE
56	1A	3801	FSD	NAW-CBC-CBR-CAE
56	2A	3553	FSD	NAW-CBC-CBR-CAE
56	2A	3553	FSD	CBK-CBO-NBP-CAD
56	2A	3553	FSD	OAJ-CAS-CBR-NAF
56	2A	3553	FSD	CBK-CBO-NBP-CAC
56	1A	3801	FSD	OAZ-CBN-OBA-CBL
55	1T	8004	MPD	CM-C2-C3-C4
55	18	104	MPD	CM-C2-C3-C4
55	1a	1900	MPD	C1-C2-C3-C4
55	2A	3551	MPD	C1-C2-C3-C4
55	2A	3551	MPD	CM-C2-C3-C4
55	2A	3552	MPD	CM-C2-C3-C4
56	1A	3801	FSD	CBJ-CBN-OBA-CBL
55	2A	3551	MPD	C2-C3-C4-C5
56	2A	3553	FSD	OAJ-CAS-CBR-CBC
55	18	104	MPD	O2-C2-C3-C4
55	2A	3551	MPD	O2-C2-C3-C4
55	2A	3552	MPD	O2-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
55	1T	8004	MPD	C2-C3-C4-O4
55	2A	3552	MPD	C2-C3-C4-O4
55	2B	210	MPD	C2-C3-C4-O4
55	1A	3800	MPD	C1-C2-C3-C4
55	18	104	MPD	C1-C2-C3-C4
55	1a	1900	MPD	CM-C2-C3-C4
55	2A	3552	MPD	C1-C2-C3-C4
54	1B	223	ARG	OXT-C-CA-N

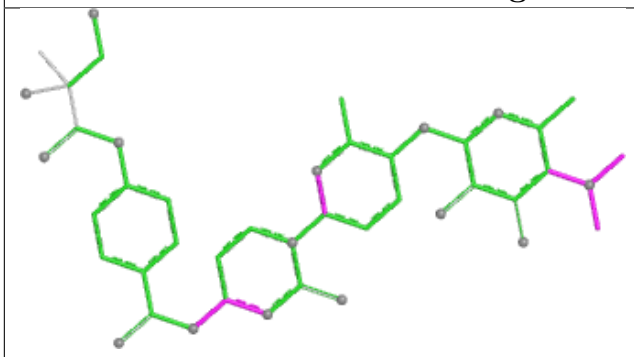
There are no ring outliers.

12 monomers are involved in 47 short contacts:

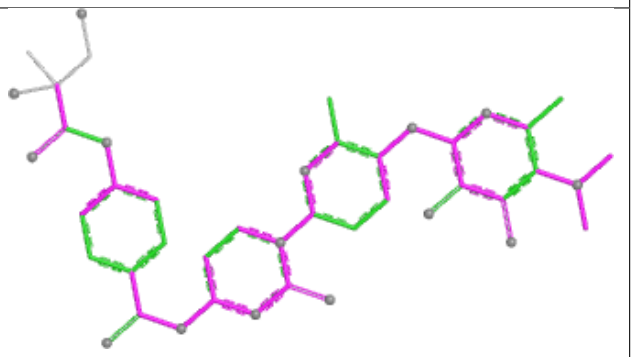
Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	2A	3552	MPD	2	0
55	2A	3551	MPD	1	0
55	2B	210	MPD	1	0
58	2d	501	SF4	4	0
56	2A	3553	FSD	10	0
55	18	104	MPD	8	0
55	1a	1900	MPD	12	0
54	1B	223	ARG	1	0
55	1A	3800	MPD	2	0
58	1d	501	SF4	3	0
54	1A	3799	ARG	2	0
56	1A	3801	FSD	1	0

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 then 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.

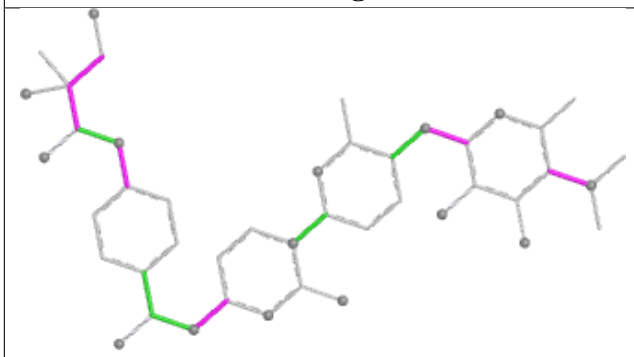
Ligand FSD 2A 3553



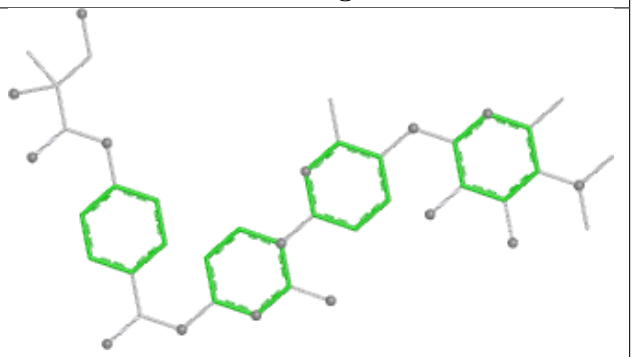
Bond lengths



Bond angles

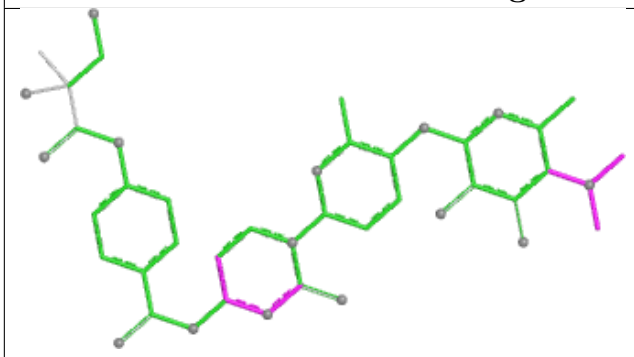


Torsions

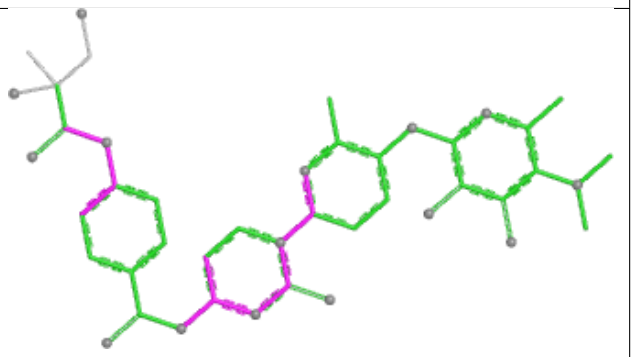


Rings

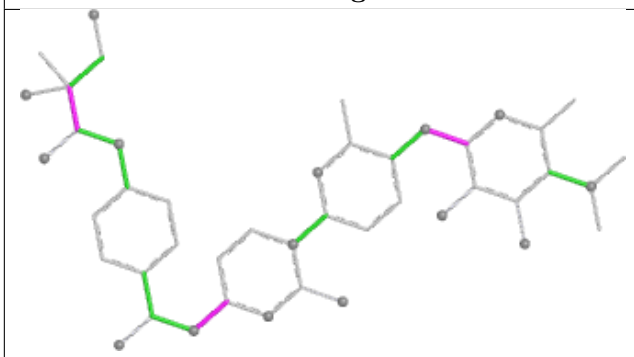
Ligand FSD 1A 3801



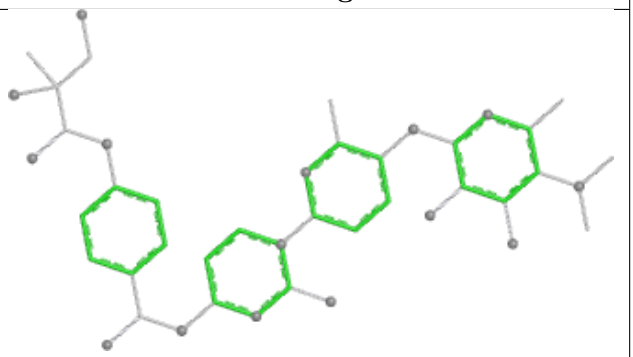
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	1A	2861/2915 (98%)	0.29	99 (3%) 47 26	26, 55, 217, 326	0
1	2A	2856/2915 (97%)	0.62	142 (4%) 34 17	56, 89, 195, 358	0
2	1B	120/120 (100%)	0.34	1 (0%) 82 65	35, 70, 93, 122	0
2	2B	120/120 (100%)	0.99	12 (10%) 12 6	83, 134, 160, 179	0
3	1D	275/275 (100%)	0.24	4 (1%) 72 51	29, 54, 74, 105	0
3	2D	275/275 (100%)	0.55	16 (5%) 29 15	53, 78, 100, 112	0
4	1E	204/204 (100%)	0.17	2 (0%) 79 61	26, 54, 75, 100	0
4	2E	204/204 (100%)	0.69	7 (3%) 48 27	60, 96, 131, 142	0
5	1F	203/203 (100%)	0.15	2 (0%) 79 61	26, 59, 96, 165	0
5	2F	203/203 (100%)	0.65	17 (8%) 17 8	57, 91, 124, 143	0
6	1G	181/181 (100%)	0.85	18 (9%) 13 6	67, 120, 158, 180	0
6	2G	181/181 (100%)	1.24	39 (21%) 2 1	124, 175, 205, 217	0
7	1H	174/174 (100%)	0.15	3 (1%) 69 48	39, 69, 88, 101	0
7	2H	173/174 (99%)	0.88	11 (6%) 25 13	104, 144, 172, 178	0
8	1I	147/147 (100%)	0.53	4 (2%) 56 34	60, 113, 135, 160	0
8	2I	146/147 (99%)	0.83	13 (8%) 15 8	83, 132, 152, 162	0
9	1N	140/140 (100%)	-0.00	2 (1%) 73 53	33, 50, 73, 88	0
9	2N	140/140 (100%)	0.55	2 (1%) 73 53	76, 106, 125, 143	0
10	1O	122/122 (100%)	0.13	0 100 100	41, 58, 77, 89	0
10	2O	122/122 (100%)	0.38	4 (3%) 49 28	62, 91, 108, 121	0
11	1P	149/149 (100%)	0.24	3 (2%) 65 43	27, 64, 95, 123	0
11	2P	149/149 (100%)	0.68	12 (8%) 18 9	62, 97, 129, 145	0
12	1Q	141/141 (100%)	0.11	1 (0%) 84 68	35, 53, 72, 101	0
12	2Q	141/141 (100%)	0.81	15 (10%) 11 5	75, 102, 124, 140	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	0.12	3 (2%) 58 36	33, 50, 69, 81	0
13	2R	118/118 (100%)	0.49	6 (5%) 33 17	66, 84, 100, 114	0
14	1S	110/110 (100%)	0.29	2 (1%) 67 46	41, 65, 91, 110	0
14	2S	110/110 (100%)	0.87	15 (13%) 7 3	96, 125, 147, 153	0
15	1T	131/131 (100%)	0.30	5 (3%) 44 24	45, 63, 96, 118	0
15	2T	131/131 (100%)	0.42	5 (3%) 44 24	76, 100, 124, 141	0
16	1U	116/116 (100%)	0.07	1 (0%) 81 63	27, 45, 63, 90	0
16	2U	116/116 (100%)	0.64	5 (4%) 40 21	61, 99, 125, 131	0
17	1V	101/101 (100%)	-0.09	0 100 100	32, 51, 76, 97	0
17	2V	101/101 (100%)	0.50	7 (6%) 23 11	61, 104, 130, 153	0
18	1W	112/112 (100%)	0.09	0 100 100	21, 42, 70, 104	0
18	2W	112/112 (100%)	0.27	3 (2%) 56 34	51, 70, 96, 121	0
19	1X	95/95 (100%)	0.13	1 (1%) 78 59	33, 53, 76, 97	0
19	2X	95/95 (100%)	0.39	1 (1%) 78 59	60, 79, 104, 132	0
20	1Y	107/107 (100%)	0.11	1 (0%) 81 63	47, 65, 95, 117	0
20	2Y	107/107 (100%)	0.59	6 (5%) 30 15	69, 100, 131, 145	0
21	1Z	203/203 (100%)	0.21	0 100 100	47, 72, 102, 115	0
21	2Z	201/203 (99%)	0.87	16 (7%) 18 9	92, 124, 151, 174	0
22	10	77/77 (100%)	0.16	1 (1%) 75 55	34, 51, 73, 121	0
22	20	77/77 (100%)	0.58	4 (5%) 33 17	71, 92, 111, 132	0
23	11	97/97 (100%)	0.20	2 (2%) 63 42	39, 60, 88, 98	0
23	21	97/97 (100%)	0.38	4 (4%) 41 22	58, 85, 116, 127	0
24	12	70/70 (100%)	0.38	3 (4%) 40 21	40, 63, 82, 100	0
24	22	70/70 (100%)	0.44	2 (2%) 53 32	72, 90, 112, 129	0
25	13	59/59 (100%)	-0.03	0 100 100	31, 48, 71, 105	0
25	23	59/59 (100%)	0.50	5 (8%) 16 8	71, 98, 124, 134	0
26	14	69/69 (100%)	0.83	2 (2%) 53 32	110, 160, 235, 240	0
26	24	69/69 (100%)	1.06	7 (10%) 12 6	157, 208, 229, 241	0
27	15	59/59 (100%)	0.03	0 100 100	29, 46, 72, 76	0
27	25	59/59 (100%)	0.32	0 100 100	64, 82, 112, 122	0
28	16	53/53 (100%)	0.11	0 100 100	43, 57, 78, 94	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/53 (100%)	0.48	1 (1%) 66 45	74, 87, 104, 113	0
29	17	48/48 (100%)	0.33	2 (4%) 40 21	30, 44, 79, 97	0
29	27	48/48 (100%)	0.57	3 (6%) 26 13	52, 66, 99, 115	0
30	18	64/64 (100%)	0.09	1 (1%) 70 49	34, 51, 61, 66	0
30	28	64/64 (100%)	0.56	3 (4%) 36 19	63, 81, 97, 112	0
31	19	37/37 (100%)	0.25	1 (2%) 56 34	41, 53, 72, 92	0
31	29	37/37 (100%)	0.89	4 (10%) 11 5	84, 108, 138, 148	0
32	1a	1488/2331 (63%)	0.96	167 (11%) 10 5	55, 122, 256, 317	0
32	2a	1492/2331 (64%)	0.96	148 (9%) 13 6	75, 132, 247, 372	0
33	1b	231/231 (100%)	0.87	25 (10%) 11 5	112, 142, 168, 180	0
33	2b	231/231 (100%)	0.86	16 (6%) 23 11	127, 163, 187, 203	0
34	1c	206/206 (100%)	1.14	34 (16%) 4 2	139, 173, 194, 208	0
34	2c	206/206 (100%)	1.26	44 (21%) 2 1	139, 173, 189, 203	0
35	1d	208/208 (100%)	0.90	22 (10%) 11 5	100, 129, 150, 161	0
35	2d	208/208 (100%)	0.94	21 (10%) 12 6	100, 126, 148, 158	0
36	1e	148/148 (100%)	0.60	7 (4%) 36 19	81, 113, 139, 161	0
36	2e	148/148 (100%)	0.73	10 (6%) 23 12	102, 121, 140, 158	0
37	1f	100/100 (100%)	0.63	6 (6%) 27 14	81, 108, 126, 136	0
37	2f	100/100 (100%)	0.66	7 (7%) 22 11	106, 127, 142, 157	0
38	1g	155/155 (100%)	1.19	26 (16%) 4 2	150, 188, 208, 223	0
38	2g	155/155 (100%)	1.15	26 (16%) 4 2	153, 183, 197, 210	0
39	1h	137/137 (100%)	0.48	6 (4%) 39 20	85, 107, 123, 141	0
39	2h	137/137 (100%)	0.75	15 (10%) 10 5	100, 125, 144, 157	0
40	1i	127/127 (100%)	1.39	33 (25%) 1 1	157, 206, 220, 229	0
40	2i	126/127 (99%)	1.42	28 (22%) 2 1	167, 203, 221, 233	0
41	1j	97/97 (100%)	1.48	24 (24%) 2 1	173, 205, 220, 230	0
41	2j	96/97 (98%)	1.47	30 (31%) 1 1	156, 193, 215, 222	0
42	1k	114/114 (100%)	0.77	8 (7%) 22 11	69, 107, 127, 144	0
42	2k	114/114 (100%)	0.83	9 (7%) 18 9	98, 129, 145, 156	0
43	1l	121/122 (99%)	0.75	6 (4%) 34 17	62, 102, 120, 133	0
43	2l	121/122 (99%)	0.66	9 (7%) 20 10	83, 111, 125, 136	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	116/116 (100%)	1.32	26 (22%) 2 1	187, 228, 248, 257	0
44	2m	114/116 (98%)	1.24	20 (17%) 4 2	188, 217, 227, 233	0
45	1n	60/60 (100%)	1.10	7 (11%) 9 4	165, 192, 219, 228	0
45	2n	60/60 (100%)	1.32	15 (25%) 2 1	166, 190, 213, 220	0
46	1o	88/88 (100%)	0.54	3 (3%) 48 27	67, 101, 121, 128	0
46	2o	88/88 (100%)	0.51	3 (3%) 48 27	83, 118, 138, 152	0
47	1p	82/82 (100%)	1.04	10 (12%) 8 4	103, 125, 150, 176	0
47	2p	82/82 (100%)	1.05	12 (14%) 6 3	101, 123, 145, 160	0
48	1q	99/99 (100%)	0.77	14 (14%) 6 3	74, 98, 112, 128	0
48	2q	99/99 (100%)	0.65	9 (9%) 15 7	93, 112, 126, 131	0
49	1r	68/68 (100%)	0.74	4 (5%) 28 14	78, 102, 127, 142	0
49	2r	68/68 (100%)	0.59	2 (2%) 53 32	108, 127, 150, 158	0
50	1s	83/83 (100%)	1.52	25 (30%) 1 1	175, 227, 240, 242	0
50	2s	83/83 (100%)	1.34	18 (21%) 2 1	157, 222, 233, 240	0
51	1t	96/98 (97%)	0.60	5 (5%) 33 17	80, 111, 125, 133	0
51	2t	98/98 (100%)	0.92	12 (12%) 8 4	98, 118, 144, 152	0
52	1u	23/23 (100%)	2.19	11 (47%) 0 0	203, 216, 226, 235	0
52	2u	23/23 (100%)	1.62	9 (39%) 1 0	195, 210, 221, 226	0
All	All	20573/22380 (91%)	0.64	1483 (7%) 21 11	21, 100, 220, 372	0

All (1483) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
41	1j	71	LEU	8.3
45	1n	2	ALA	7.5
47	1p	12	LYS	6.6
48	1q	65	ILE	6.5
6	2G	133	LEU	6.1
40	2i	123	PRO	6.1
35	1d	42	GLN	6.0
1	1A	1151	G	5.8
52	1u	2	GLY	5.8
32	1a	1242	C	5.7
1	1A	1102	A	5.5
35	2d	4	TYR	5.5
6	2G	88	ILE	5.4

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Mol	Chain	Res	Type	RSRZ
41	1j	37	PRO	5.4
1	1A	1140	A	5.4
44	2m	106	ASN	5.4
7	2H	137	ASP	5.3
1	2A	1116	G	5.2
40	2i	109	VAL	5.1
1	1A	2193	U	5.1
50	2s	52	TYR	5.1
11	1P	15	ARG	5.0
38	1g	66	VAL	5.0
41	1j	47	PHE	4.9
38	1g	37	ASN	4.9
52	1u	23	PRO	4.9
52	2u	5	ASP	4.8
35	1d	22	LYS	4.8
34	2c	10	PHE	4.8
33	1b	101	MET	4.8
41	2j	53	PRO	4.7
1	2A	1117	C	4.7
33	1b	233	SER	4.7
12	2Q	105	GLU	4.7
1	2A	1091	A	4.6
1	1A	2802	A	4.6
38	2g	105	VAL	4.6
40	1i	30	GLY	4.6
1	1A	1107	G	4.6
1	2A	2127	G	4.6
34	1c	39	ILE	4.6
1	1A	1132	G	4.5
37	2f	21	LEU	4.5
38	2g	92	SER	4.5
1	1A	1148	A	4.5
36	2e	114	GLY	4.5
1	2A	2126	C	4.4
2	2B	5	C	4.4
6	2G	132	ASN	4.4
6	2G	39	ILE	4.4
34	2c	152	ILE	4.4
1	1A	2901	G	4.4
38	1g	93	PRO	4.4
23	21	15	ALA	4.3
3	1D	276	LYS	4.3

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Mol	Chain	Res	Type	RSRZ
1	1A	1115	A	4.3
45	2n	2	ALA	4.3
16	2U	89	GLU	4.3
20	2Y	58	GLY	4.3
6	2G	157	ILE	4.3
50	1s	82	GLY	4.3
6	1G	80	PHE	4.3
23	21	2	SER	4.3
34	2c	155	GLY	4.3
6	2G	63	ILE	4.2
52	2u	4	GLY	4.2
34	2c	39	ILE	4.2
7	2H	24	VAL	4.2
12	2Q	104	PHE	4.2
38	2g	27	ILE	4.2
39	2h	31	PHE	4.2
44	2m	107	ALA	4.2
50	2s	2	PRO	4.2
34	1c	52	LEU	4.2
34	2c	188	LEU	4.2
8	1I	79	ILE	4.2
1	1A	1116	G	4.2
1	2A	1132	G	4.2
1	2A	1118	A	4.1
34	2c	68	VAL	4.1
1	1A	1147	C	4.1
51	2t	30	LYS	4.1
32	1a	1324	C	4.1
50	1s	2	PRO	4.1
41	1j	58	ASP	4.1
35	2d	69	GLY	4.1
6	2G	41	GLN	4.1
14	2S	87	PHE	4.0
50	2s	76	PRO	4.0
6	2G	43	LEU	4.0
34	1c	55	VAL	4.0
32	1a	957	C	4.0
51	2t	102	GLY	4.0
44	1m	107	ALA	4.0
36	2e	85	GLY	4.0
1	1A	1134	G	4.0
32	1a	958	C	4.0

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Mol	Chain	Res	Type	RSRZ
44	1m	102	ARG	3.9
32	2a	929	G	3.9
40	1i	39	GLY	3.9
32	2a	1142	U	3.9
38	1g	22	LEU	3.9
40	1i	40	LEU	3.9
6	1G	156	ASP	3.9
44	2m	101	GLN	3.9
1	1A	1101	G	3.9
1	1A	2902	G	3.9
32	2a	1268	A	3.9
50	1s	71	LEU	3.9
1	1A	1146	U	3.9
1	2A	2193	U	3.9
41	1j	35	SER	3.9
40	2i	40	LEU	3.9
50	2s	51	VAL	3.8
44	2m	27	LYS	3.8
34	1c	20	SER	3.8
34	2c	178	LEU	3.8
41	2j	20	ALA	3.8
52	1u	10	ARG	3.8
8	2I	79	ILE	3.8
5	2F	22	ALA	3.8
47	2p	13	HIS	3.8
32	1a	1234	A	3.8
6	1G	120	LEU	3.8
36	1e	100	VAL	3.8
38	1g	101	LEU	3.7
34	1c	130	VAL	3.7
23	11	2	SER	3.7
1	2A	2901	G	3.7
32	1a	1206	G	3.7
5	2F	194	MET	3.7
1	1A	2192	A	3.7
37	1f	98	LEU	3.7
50	2s	35	SER	3.7
26	24	44	THR	3.7
1	2A	1134	G	3.7
52	1u	3	LYS	3.7
41	2j	41	PRO	3.7
32	1a	924	A	3.7

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Mol	Chain	Res	Type	RSRZ
38	2g	66	VAL	3.7
47	2p	74	LEU	3.7
5	2F	172	TRP	3.7
13	2R	5	LYS	3.7
39	2h	98	LYS	3.7
51	2t	11	SER	3.6
32	1a	923	G	3.6
32	2a	1107	G	3.6
35	2d	21	LEU	3.6
34	1c	2	GLY	3.6
35	2d	115	ARG	3.6
44	1m	69	GLU	3.6
15	1T	95	ARG	3.6
48	1q	70	ARG	3.6
1	1A	1106	U	3.6
1	1A	1143	A	3.6
45	2n	34	TYR	3.6
34	2c	87	LEU	3.6
51	1t	54	LYS	3.6
1	2A	934	C	3.6
34	2c	99	VAL	3.6
40	2i	108	VAL	3.6
21	2Z	137	ILE	3.6
40	1i	105	ASP	3.6
32	1a	982	G	3.5
50	1s	83	HIS	3.5
1	1A	1125	C	3.5
44	1m	27	LYS	3.5
33	1b	148	TYR	3.5
40	2i	115	GLY	3.5
14	2S	33	LYS	3.5
14	2S	26	LEU	3.5
32	1a	154	G	3.5
32	1a	768	C	3.5
48	2q	65	ILE	3.5
1	2A	2331	A	3.5
1	2A	2788	A	3.5
32	2a	1147	G	3.5
47	1p	13	HIS	3.5
6	2G	158	ALA	3.5
33	2b	152	PHE	3.5
1	1A	1130	A	3.5

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Mol	Chain	Res	Type	RSRZ
1	2A	2138	A	3.5
5	2F	176	LEU	3.5
41	1j	40	LEU	3.5
51	2t	24	LEU	3.5
32	1a	1336	C	3.5
40	2i	92	TYR	3.4
17	2V	5	VAL	3.4
34	2c	66	VAL	3.4
40	2i	96	LEU	3.4
47	2p	68	ASP	3.4
1	2A	1094	C	3.4
32	1a	1101	C	3.4
32	2a	1171	C	3.4
1	1A	270	U	3.4
1	2A	1119	G	3.4
32	2a	1133	U	3.4
6	2G	134	GLY	3.4
44	1m	101	GLN	3.4
36	1e	118	ILE	3.4
38	2g	151	TYR	3.4
44	1m	87	TYR	3.4
5	2F	102	PRO	3.4
41	1j	57	LYS	3.4
1	1A	2125	G	3.4
34	1c	66	VAL	3.4
41	2j	40	LEU	3.4
1	2A	2192	A	3.4
1	1A	2124	C	3.4
1	1A	1142	U	3.4
26	24	37	SER	3.4
48	2q	99	SER	3.4
1	1A	1100	G	3.4
32	2a	572	G	3.4
15	1T	93	ARG	3.3
1	2A	2139	U	3.3
6	2G	42	GLY	3.3
38	1g	85	TYR	3.3
48	1q	35	VAL	3.3
1	2A	2141	G	3.3
3	2D	156	ALA	3.3
10	2O	36	GLY	3.3
34	2c	201	TYR	3.3

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Mol	Chain	Res	Type	RSRZ
44	2m	21	TYR	3.3
50	1s	13	ASP	3.3
32	1a	916	A	3.3
32	2a	472	A	3.3
29	27	41	ARG	3.3
34	1c	101	LEU	3.3
34	2c	43	LEU	3.3
43	1l	119	LYS	3.3
8	2I	138	ILE	3.3
37	1f	50	TYR	3.3
44	1m	21	TYR	3.3
1	1A	944	A	3.3
32	1a	148	C	3.3
32	2a	1112	C	3.3
44	1m	24	GLY	3.3
35	2d	110	PHE	3.2
45	1n	36	PHE	3.2
37	2f	6	VAL	3.2
41	1j	48	THR	3.2
3	2D	148	GLU	3.2
32	1a	1287	G	3.2
38	1g	74	GLU	3.2
1	1A	1114	A	3.2
1	1A	2140	A	3.2
1	1A	1117	C	3.2
1	1A	1120	C	3.2
5	2F	101	LEU	3.2
7	2H	139	GLN	3.2
33	2b	214	ILE	3.2
6	2G	44	GLY	3.2
14	2S	70	GLY	3.2
40	2i	120	ARG	3.2
43	2l	35	GLY	3.2
6	2G	12	TYR	3.2
8	2I	77	LEU	3.2
25	23	12	PRO	3.2
1	1A	1133	A	3.2
1	2A	2140	A	3.2
32	2a	571	G	3.2
1	2A	2324	C	3.2
41	1j	5	ARG	3.2
35	2d	120	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
40	2i	117	HIS	3.2
39	2h	35	ILE	3.2
39	2h	84	ARG	3.2
40	2i	7	THR	3.2
48	2q	68	ARG	3.2
1	1A	1104	G	3.2
32	1a	920	G	3.2
6	2G	34	LEU	3.2
6	2G	90	LEU	3.2
51	2t	28	ALA	3.2
32	2a	1284	U	3.1
48	2q	69	LYS	3.1
1	1A	1129	A	3.1
32	1a	955	A	3.1
8	2I	92	VAL	3.1
43	2l	120	TYR	3.1
1	2A	303	C	3.1
1	2A	304	G	3.1
32	1a	951	G	3.1
32	2a	973	C	3.1
32	2a	1185	C	3.1
6	1G	144	ILE	3.1
6	2G	75	LYS	3.1
9	2N	73	THR	3.1
33	2b	109	SER	3.1
38	2g	150	ALA	3.1
38	2g	80	VAL	3.1
18	2W	60	ASN	3.1
45	1n	34	TYR	3.1
1	2A	1112	A	3.1
32	1a	1342	A	3.1
38	1g	35	LYS	3.1
32	1a	1095	C	3.1
4	2E	182	LEU	3.1
42	2k	43	SER	3.1
52	1u	24	ARG	3.1
44	2m	97	PRO	3.1
40	2i	11	LYS	3.1
1	2A	5	A	3.1
12	2Q	15	GLY	3.1
34	2c	2	GLY	3.1
33	2b	233	SER	3.1

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Mol	Chain	Res	Type	RSRZ
1	2A	1166	C	3.1
32	2a	958	C	3.1
52	1u	5	ASP	3.1
1	2A	2146	G	3.1
1	2A	2812	G	3.1
32	1a	1121	G	3.1
32	2a	1197	G	3.1
32	2a	1235	G	3.1
35	1d	4	TYR	3.1
41	2j	69	ASN	3.1
38	1g	99	LEU	3.1
42	2k	22	HIS	3.1
1	1A	1139	U	3.1
38	2g	5	ARG	3.1
34	1c	207	VAL	3.1
45	2n	18	VAL	3.1
6	2G	45	GLU	3.1
38	1g	62	PHE	3.1
32	2a	1391	A	3.1
40	1i	78	LYS	3.1
52	2u	3	LYS	3.1
12	2Q	138	ASP	3.1
1	1A	1145	C	3.0
32	1a	1279	C	3.0
32	2a	957	C	3.0
32	2a	1132	C	3.0
38	2g	7	ALA	3.0
38	2g	38	LEU	3.0
41	1j	62	HIS	3.0
1	1A	1119	G	3.0
32	2a	1040	G	3.0
32	2a	1258	G	3.0
44	1m	20	THR	3.0
1	1A	1127	U	3.0
35	1d	40	PRO	3.0
34	2c	17	ASP	3.0
6	2G	62	LEU	3.0
22	20	21	LEU	3.0
1	2A	2643	A	3.0
32	1a	204	A	3.0
32	2a	1075	A	3.0
44	1m	63	THR	3.0

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Mol	Chain	Res	Type	RSRZ
40	2i	110	GLU	3.0
8	1I	42	SER	3.0
41	2j	23	ILE	3.0
44	1m	10	PRO	3.0
21	2Z	40	ASP	3.0
44	2m	90	LEU	3.0
38	2g	2	ALA	3.0
47	1p	22	THR	3.0
48	2q	71	PHE	3.0
32	2a	780	C	3.0
35	1d	5	ILE	3.0
41	2j	64	GLU	3.0
7	2H	71	LEU	3.0
40	2i	50	LEU	3.0
26	14	63	TYR	3.0
48	1q	68	ARG	3.0
1	1A	11	U	3.0
32	2a	978	U	3.0
43	2l	99	HIS	3.0
6	2G	159	VAL	3.0
21	2Z	42	VAL	3.0
32	1a	367	G	3.0
32	2a	1019	G	3.0
12	2Q	66	ILE	3.0
32	2a	1165	A	3.0
35	1d	21	LEU	3.0
38	2g	90	GLU	3.0
38	2g	101	LEU	3.0
38	2g	104	LEU	3.0
47	1p	41	PRO	3.0
23	21	40	ARG	3.0
44	1m	99	ARG	3.0
11	2P	56	SER	3.0
1	2A	2128	C	3.0
33	2b	31	TYR	3.0
40	1i	68	GLY	3.0
47	2p	79	VAL	3.0
32	2a	1108	U	3.0
20	2Y	60	PHE	3.0
41	1j	54	PHE	3.0
41	2j	38	ILE	3.0
11	2P	21	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
32	2a	1198	G	2.9
44	1m	97	PRO	2.9
4	2E	187	ALA	2.9
17	2V	73	SER	2.9
38	1g	98	SER	2.9
32	2a	1271	A	2.9
1	2A	1154	C	2.9
32	1a	1225	C	2.9
34	2c	52	LEU	2.9
46	1o	57	LEU	2.9
4	2E	200	GLU	2.9
34	2c	199	LYS	2.9
39	2h	40	ALA	2.9
14	2S	49	VAL	2.9
1	1A	1103	G	2.9
6	1G	125	PHE	2.9
32	1a	191	G	2.9
32	1a	1036	G	2.9
46	2o	51	HIS	2.9
29	17	1	MET	2.9
35	1d	126	ILE	2.9
39	2h	83	ILE	2.9
1	1A	1131	A	2.9
1	2A	1141	A	2.9
33	1b	144	ARG	2.9
34	2c	32	LEU	2.9
41	2j	65	LEU	2.9
40	1i	7	THR	2.9
50	2s	6	LYS	2.9
6	2G	171	ALA	2.9
32	2a	437	C	2.9
40	1i	106	ALA	2.9
32	2a	83	U	2.9
32	2a	938	U	2.9
32	2a	1323	U	2.9
40	2i	125	TYR	2.9
3	2D	152	GLY	2.9
5	2F	32	LEU	2.9
41	1j	46	ARG	2.9
3	1D	275	LYS	2.9
34	1c	4	LYS	2.9
38	1g	36	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
33	1b	234	PRO	2.9
34	1c	100	ALA	2.9
1	1A	1118	A	2.9
33	1b	81	VAL	2.9
34	1c	120	VAL	2.9
34	2c	76	VAL	2.9
1	1A	1124	C	2.9
1	2A	2158	C	2.9
1	2A	1146	U	2.9
32	1a	1048	U	2.9
34	2c	88	ARG	2.9
5	2F	181	LEU	2.9
36	1e	92	LYS	2.9
39	2h	36	LEU	2.9
44	1m	25	ILE	2.9
21	2Z	159	PRO	2.9
6	2G	40	ASN	2.9
44	1m	64	TRP	2.9
41	1j	72	VAL	2.9
40	2i	5	TYR	2.9
1	2A	203	G	2.9
32	1a	1122	G	2.9
50	1s	70	LYS	2.9
32	2a	1020	C	2.8
32	2a	1048	U	2.8
41	2j	35	SER	2.8
33	1b	29	ALA	2.8
40	1i	119	ALA	2.8
40	1i	12	GLU	2.8
11	1P	13	ASN	2.8
11	2P	84	ASN	2.8
38	1g	84	ASN	2.8
51	2t	9	ASN	2.8
40	1i	107	ARG	2.8
35	2d	166	LYS	2.8
26	24	22	ILE	2.8
42	2k	29	ILE	2.8
35	1d	125	HIS	2.8
1	2A	1115	A	2.8
32	1a	1315	A	2.8
1	2A	2805	G	2.8
1	2A	1633	C	2.8

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Mol	Chain	Res	Type	RSRZ
1	2A	2185	C	2.8
1	2A	2801	C	2.8
12	2Q	48	GLU	2.8
32	1a	1212	C	2.8
33	1b	94	ASN	2.8
48	2q	67	LYS	2.8
42	2k	45	GLY	2.8
7	2H	146	ALA	2.8
34	1c	56	ASP	2.8
36	2e	57	LYS	2.8
1	1A	1112	A	2.8
1	1A	1111	U	2.8
34	1c	87	LEU	2.8
41	2j	71	LEU	2.8
49	1r	43	PHE	2.8
21	2Z	28	MET	2.8
33	1b	72	GLY	2.8
50	1s	44	MET	2.8
1	1A	1108	G	2.8
1	2A	679	G	2.8
32	1a	289	G	2.8
32	1a	1248	G	2.8
32	1a	1466	G	2.8
32	2a	1324	C	2.8
32	2a	1350	C	2.8
47	2p	39	TYR	2.8
48	2q	42	TYR	2.8
20	2Y	57	GLN	2.8
33	1b	232	PRO	2.8
41	1j	38	ILE	2.8
1	1A	1126	U	2.8
1	2A	1129	A	2.8
32	1a	1162	A	2.8
43	1l	120	TYR	2.8
41	1j	43	ARG	2.8
47	2p	8	ARG	2.8
1	1A	2196	C	2.8
1	2A	942	C	2.8
1	2A	1675	G	2.8
32	2a	1041	G	2.8
32	2a	1272	G	2.8
3	2D	177	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
6	1G	90	LEU	2.8
37	1f	61	LEU	2.8
14	2S	34	HIS	2.7
34	2c	31	HIS	2.7
15	1T	94	ALA	2.7
21	2Z	173	ALA	2.7
40	2i	122	ALA	2.7
49	1r	60	ALA	2.7
1	1A	1105	U	2.7
1	2A	2777	A	2.7
32	1a	425	U	2.7
32	1a	956	A	2.7
40	2i	124	GLN	2.7
35	2d	7	PRO	2.7
6	1G	48	GLU	2.7
14	2S	52	SER	2.7
32	1a	72	C	2.7
32	2a	473	C	2.7
41	2j	63	PHE	2.7
1	1A	2146	G	2.7
1	2A	2175	G	2.7
1	2A	2763	G	2.7
32	2a	1343	G	2.7
35	2d	3	ARG	2.7
3	2D	9	TYR	2.7
51	1t	58	LYS	2.7
11	2P	70	GLN	2.7
23	21	42	GLN	2.7
44	2m	17	VAL	2.7
34	1c	196	LEU	2.7
1	1A	1128	U	2.7
32	1a	544	U	2.7
35	1d	179	GLU	2.7
33	2b	107	THR	2.7
25	23	20	LYS	2.7
40	1i	127	LYS	2.7
1	2A	1593	C	2.7
32	1a	1022	C	2.7
32	1a	1102	C	2.7
11	2P	31	ALA	2.7
39	1h	28	ALA	2.7
40	1i	19	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	1A	2181	G	2.7
1	2A	2902	G	2.7
32	1a	22	G	2.7
44	2m	113	PRO	2.7
15	2T	75	ILE	2.7
40	2i	107	ARG	2.7
50	1s	84	GLY	2.7
50	2s	37	ARG	2.7
52	1u	14	TRP	2.7
1	2A	1940	A	2.7
32	1a	1018	A	2.7
32	1a	1113	A	2.7
30	28	64	TYR	2.7
33	1b	195	ASP	2.7
41	1j	20	ALA	2.7
31	29	20	HIS	2.7
33	1b	93	VAL	2.7
38	2g	22	LEU	2.7
43	2l	18	VAL	2.7
1	2A	2200	C	2.7
32	1a	506	C	2.7
38	1g	42	ILE	2.7
6	2G	102	PHE	2.7
6	2G	64	THR	2.7
50	2s	77	THR	2.7
1	1A	1562	G	2.7
1	2A	1208	G	2.7
32	2a	1206	G	2.7
45	2n	61	TRP	2.7
1	2A	2323	U	2.7
6	1G	133	LEU	2.7
32	1a	93	U	2.7
37	2f	9	VAL	2.7
50	2s	41	VAL	2.7
20	1Y	1	MET	2.6
32	2a	436	A	2.6
34	1c	10	PHE	2.6
34	2c	93	LYS	2.6
38	2g	35	LYS	2.6
32	2a	1252	C	2.6
21	2Z	37	VAL	2.6
36	1e	119	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
1	2A	973	G	2.6
1	2A	2315	G	2.6
2	1B	23	G	2.6
6	2G	156	ASP	2.6
32	1a	1313	G	2.6
32	2a	194	G	2.6
40	2i	105	ASP	2.6
37	1f	87	ARG	2.6
42	2k	117	ASN	2.6
44	1m	65	LYS	2.6
44	1m	104	ARG	2.6
1	2A	2188	U	2.6
1	1A	1141	A	2.6
32	1a	943	A	2.6
32	2a	1234	A	2.6
15	1T	130	ALA	2.6
38	2g	152	ALA	2.6
32	1a	1120	C	2.6
32	2a	497	C	2.6
40	1i	121	ARG	2.6
50	1s	78	ARG	2.6
52	1u	6	ARG	2.6
6	2G	129	GLY	2.6
43	1l	72	GLY	2.6
48	1q	33	GLY	2.6
1	1A	2134	U	2.6
32	1a	1108	U	2.6
1	1A	1113	G	2.6
1	1A	2207	G	2.6
1	2A	2186	G	2.6
32	1a	1354	G	2.6
32	2a	1060	G	2.6
35	1d	58	LEU	2.6
49	1r	40	LEU	2.6
5	2F	105	VAL	2.6
1	1A	1933	A	2.6
1	2A	2002	A	2.6
1	2A	2190	A	2.6
32	2a	1221	A	2.6
37	1f	63	TYR	2.6
41	2j	13	HIS	2.6
1	2A	302	C	2.6

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Mol	Chain	Res	Type	RSRZ
32	1a	437	C	2.6
32	2a	1006	C	2.6
38	2g	37	ASN	2.6
43	2l	72	GLY	2.6
8	2I	70	GLU	2.6
34	1c	65	ALA	2.6
34	2c	55	VAL	2.6
36	2e	116	THR	2.6
41	2j	26	ALA	2.6
45	2n	31	ARG	2.6
1	2A	978	G	2.6
1	2A	1136	G	2.6
2	2B	117	G	2.6
32	1a	911	G	2.6
32	1a	1163	G	2.6
32	2a	1172	G	2.6
32	2a	1180	G	2.6
32	2a	1277	G	2.6
33	1b	109	SER	2.6
39	1h	31	PHE	2.6
39	1h	101	PRO	2.6
40	1i	126	SER	2.6
1	1A	1122	A	2.6
32	2a	1269	A	2.6
7	1H	66	GLY	2.6
14	2S	90	GLY	2.6
41	2j	52	GLY	2.6
3	2D	182	LEU	2.6
6	2G	103	LEU	2.6
1	1A	1149	C	2.6
32	1a	341	C	2.6
32	1a	1043	C	2.6
32	2a	1097	C	2.6
33	1b	96	ARG	2.6
38	1g	39	ALA	2.6
40	1i	41	VAL	2.6
21	2Z	46	LYS	2.6
25	23	24	LYS	2.6
50	1s	24	ALA	2.6
50	1s	81	ARG	2.6
35	2d	5	ILE	2.5
33	2b	70	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
1	2A	1128	U	2.5
32	1a	1284	U	2.5
34	2c	144	SER	2.5
38	1g	13	GLN	2.5
38	2g	12	LEU	2.5
1	1A	1152	G	2.5
1	1A	2315	G	2.5
1	2A	1681	G	2.5
22	20	77	ARG	2.5
24	12	51	ARG	2.5
32	1a	302	G	2.5
32	2a	1005	G	2.5
32	2a	1179	G	2.5
32	2a	1335	G	2.5
34	1c	153	VAL	2.5
38	1g	115	ARG	2.5
40	2i	54	ASP	2.5
8	2I	65	ALA	2.5
32	1a	1332	A	2.5
44	1m	51	ALA	2.5
38	1g	27	ILE	2.5
1	2A	776	C	2.5
1	2A	1137	C	2.5
1	2A	1447	C	2.5
38	2g	43	PHE	2.5
41	1j	56	HIS	2.5
50	1s	69	HIS	2.5
11	2P	6	LEU	2.5
12	2Q	30	GLY	2.5
20	2Y	59	GLY	2.5
48	1q	66	SER	2.5
48	1q	98	LEU	2.5
13	2R	68	ARG	2.5
44	2m	108	ARG	2.5
14	1S	61	ASN	2.5
34	2c	62	ASP	2.5
34	2c	77	ILE	2.5
15	1T	59	THR	2.5
47	2p	9	PHE	2.5
49	1r	29	PHE	2.5
1	1A	936	A	2.5
32	1a	180	A	2.5

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Mol	Chain	Res	Type	RSRZ
32	1a	1268	A	2.5
2	2B	61	G	2.5
32	2a	905	G	2.5
32	2a	971	G	2.5
32	2a	1313	G	2.5
48	1q	2	PRO	2.5
1	1A	696	C	2.5
1	1A	2204	C	2.5
1	2A	2813	C	2.5
11	2P	39	LYS	2.5
17	2V	71	LEU	2.5
29	17	48	LYS	2.5
34	1c	91	LEU	2.5
32	1a	158	C	2.5
35	1d	3	ARG	2.5
36	1e	40	ARG	2.5
40	1i	11	LYS	2.5
41	2j	46	ARG	2.5
45	2n	35	ARG	2.5
48	1q	63	ARG	2.5
48	2q	66	SER	2.5
6	1G	137	GLU	2.5
18	2W	52	GLU	2.5
32	2a	86	U	2.5
39	1h	22	GLU	2.5
36	2e	109	ILE	2.5
33	2b	101	MET	2.5
38	2g	62	PHE	2.5
7	2H	103	LEU	2.5
12	2Q	123	HIS	2.5
14	2S	32	LEU	2.5
31	29	19	ARG	2.5
34	2c	91	LEU	2.5
35	1d	157	LEU	2.5
51	2t	27	LYS	2.5
32	1a	138	A	2.5
32	1a	203	A	2.5
1	2A	1216	G	2.5
31	19	6	SER	2.5
31	29	5	ALA	2.5
32	1a	102	G	2.5
7	2H	4	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
32	2a	998	C	2.5
50	1s	73	GLU	2.5
37	2f	55	ASP	2.5
32	1a	1118	U	2.5
12	2Q	18	LYS	2.5
40	2i	95	LYS	2.5
41	2j	43	ARG	2.5
48	1q	43	LEU	2.5
40	1i	15	ALA	2.4
42	2k	97	ALA	2.4
47	1p	70	ALA	2.4
1	2A	2762	A	2.4
12	2Q	80	GLU	2.4
15	2T	95	ARG	2.4
24	22	52	ASP	2.4
30	28	46	ARG	2.4
34	1c	97	LYS	2.4
1	1A	1097	C	2.4
1	2A	1966	G	2.4
1	2A	1978	C	2.4
1	2A	2677	C	2.4
32	1a	414	C	2.4
32	1a	560	G	2.4
32	1a	1252	C	2.4
32	1a	1253	G	2.4
52	2u	8	THR	2.4
32	1a	1299	C	2.4
32	1a	1345	C	2.4
32	2a	779	C	2.4
32	2a	1021	C	2.4
32	2a	1128	C	2.4
35	1d	39	PRO	2.4
36	1e	77	PRO	2.4
40	2i	21	PRO	2.4
1	2A	1044	U	2.4
1	2A	2171	U	2.4
1	2A	2596	U	2.4
32	2a	1397	U	2.4
35	2d	38	TYR	2.4
39	2h	82	HIS	2.4
3	1D	110	GLY	2.4
35	1d	23	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
51	1t	102	GLY	2.4
40	1i	94	ALA	2.4
6	2G	155	MET	2.4
51	1t	11	SER	2.4
16	1U	79	PHE	2.4
33	1b	152	PHE	2.4
34	1c	135	LYS	2.4
51	2t	8	ARG	2.4
5	2F	156	LEU	2.4
6	2G	49	ASP	2.4
32	1a	1029	A	2.4
32	1a	1232	A	2.4
33	1b	67	THR	2.4
34	1c	95	THR	2.4
43	1l	122	THR	2.4
41	1j	41	PRO	2.4
17	2V	14	VAL	2.4
21	2Z	143	GLY	2.4
34	2c	197	GLY	2.4
1	1A	1633	C	2.4
1	1A	2128	C	2.4
2	2B	64	C	2.4
3	2D	144	ALA	2.4
32	2a	341	C	2.4
32	2a	488	C	2.4
33	1b	77	ALA	2.4
38	1g	83	ALA	2.4
32	2a	1067	G	2.4
32	2a	1077	G	2.4
32	2a	1201	U	2.4
38	1g	120	ILE	2.4
44	2m	75	ALA	2.4
1	2A	755	U	2.4
1	2A	2301	G	2.4
16	2U	117	GLN	2.4
32	1a	1286	G	2.4
36	2e	47	LYS	2.4
39	2h	64	LYS	2.4
5	2F	192	LEU	2.4
18	2W	51	LEU	2.4
14	2S	61	ASN	2.4
40	1i	21	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
7	2H	141	VAL	2.4
42	2k	30	VAL	2.4
1	2A	944	A	2.4
1	2A	2147	A	2.4
32	1a	1271	A	2.4
32	2a	1018	A	2.4
40	1i	74	ILE	2.4
50	1s	49	ILE	2.4
3	2D	150	LYS	2.4
1	1A	1123	U	2.4
6	2G	120	LEU	2.4
32	1a	1096	C	2.4
32	1a	1201	U	2.4
32	2a	1318	C	2.4
51	2t	84	LEU	2.4
1	1A	2319	G	2.4
32	1a	8	G	2.4
32	1a	1107	G	2.4
32	1a	1114	G	2.4
32	1a	1272	G	2.4
32	2a	32	G	2.4
10	2O	57	VAL	2.4
16	2U	90	VAL	2.4
41	2j	37	PRO	2.4
12	2Q	71	ASP	2.4
50	1s	12	ASP	2.4
44	2m	28	ALA	2.4
6	2G	105	LYS	2.4
12	2Q	65	PHE	2.4
7	2H	33	LEU	2.4
8	2I	38	LEU	2.4
50	1s	20	LEU	2.4
50	2s	16	LEU	2.4
1	2A	2322	A	2.4
6	2G	143	GLU	2.4
32	2a	408	A	2.4
10	2O	116	SER	2.4
43	2l	118	SER	2.4
1	1A	2596	U	2.4
3	2D	228	PRO	2.4
32	1a	970	U	2.4
32	2a	544	U	2.4

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Mol	Chain	Res	Type	RSRZ
34	1c	99	VAL	2.4
1	1A	934	C	2.3
32	2a	169	C	2.3
9	1N	105	GLY	2.3
46	2o	25	THR	2.3
19	1X	62	LYS	2.3
3	2D	48	ARG	2.3
8	1I	88	ILE	2.3
14	2S	17	ARG	2.3
34	2c	92	ALA	2.3
45	2n	7	ILE	2.3
34	1c	62	ASP	2.3
51	2t	25	ARG	2.3
1	2A	2125	G	2.3
32	1a	1117	G	2.3
32	1a	1202	G	2.3
32	2a	641	G	2.3
41	1j	63	PHE	2.3
5	2F	183	VAL	2.3
38	1g	80	VAL	2.3
50	1s	9	VAL	2.3
36	2e	77	PRO	2.3
52	2u	23	PRO	2.3
3	2D	39	LYS	2.3
32	1a	60	A	2.3
32	2a	180	A	2.3
32	2a	924	A	2.3
32	2a	1432	A	2.3
40	1i	128	ARG	2.3
41	1j	50	ILE	2.3
44	1m	29	ARG	2.3
8	2I	146	ALA	2.3
19	2X	5	TYR	2.3
32	1a	1131	U	2.3
1	1A	2195	C	2.3
1	2A	911	C	2.3
1	2A	943	C	2.3
14	2S	54	LEU	2.3
32	2a	1264	C	2.3
36	1e	45	PHE	2.3
38	2g	124	LEU	2.3
40	2i	102	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
49	2r	51	LEU	2.3
8	2I	139	GLN	2.3
43	2l	73	GLU	2.3
1	1A	928	G	2.3
1	2A	202	G	2.3
1	2A	1788	G	2.3
1	2A	2183	G	2.3
32	1a	981	G	2.3
32	2a	1036	G	2.3
32	2a	1175	G	2.3
40	1i	109	VAL	2.3
43	1l	96	VAL	2.3
33	2b	111	ARG	2.3
40	1i	123	PRO	2.3
50	2s	78	ARG	2.3
35	1d	95	GLY	2.3
39	2h	115	SER	2.3
48	1q	99	SER	2.3
3	2D	147	LEU	2.3
1	2A	1140	A	2.3
32	2a	516	A	2.3
32	2a	1113	A	2.3
35	1d	185	PHE	2.3
45	2n	36	PHE	2.3
1	1A	2153	U	2.3
1	2A	1142	U	2.3
5	1F	27	GLU	2.3
1	1A	2150	C	2.3
1	2A	2485	C	2.3
32	1a	375	C	2.3
38	1g	91	VAL	2.3
50	2s	18	LYS	2.3
34	1c	25	GLY	2.3
40	1i	69	GLY	2.3
40	2i	74	ILE	2.3
52	1u	16	GLY	2.3
24	12	58	ALA	2.3
38	1g	2	ALA	2.3
6	1G	43	LEU	2.3
1	1A	2189	G	2.3
1	2A	2131	G	2.3
1	2A	2794	G	2.3

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Mol	Chain	Res	Type	RSRZ
32	1a	78	G	2.3
32	1a	376	G	2.3
32	1a	1172	G	2.3
32	1a	1175	G	2.3
32	1a	1353	G	2.3
32	2a	216	G	2.3
50	2s	80	TYR	2.3
4	2E	48	GLN	2.3
11	2P	87	ASP	2.3
20	2Y	94	LYS	2.3
1	1A	259	A	2.3
1	2A	1095	A	2.3
5	1F	106	ARG	2.3
8	2I	136	VAL	2.3
21	2Z	116	VAL	2.3
32	2a	1218	A	2.3
33	2b	112	VAL	2.3
40	2i	17	VAL	2.3
41	2j	34	VAL	2.3
44	2m	60	VAL	2.3
34	2c	7	PRO	2.3
35	2d	39	PRO	2.3
1	1A	1577	C	2.3
32	1a	169	C	2.3
32	1a	307	C	2.3
32	1a	488	C	2.3
32	1a	1226	C	2.3
32	2a	215	C	2.3
32	2a	1242	C	2.3
45	2n	53	LEU	2.3
50	1s	5	LEU	2.3
36	2e	28	PHE	2.3
48	1q	12	SER	2.3
11	2P	15	ARG	2.3
41	2j	66	ARG	2.3
33	1b	197	VAL	2.3
47	2p	29	ASP	2.3
5	2F	161	GLU	2.2
1	2A	1165	G	2.2
32	1a	929	G	2.2
32	1a	1077	G	2.2
32	2a	434	G	2.2

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Mol	Chain	Res	Type	RSRZ
32	2a	990	G	2.2
32	2a	1370	G	2.2
3	2D	105	ILE	2.2
41	2j	50	ILE	2.2
33	2b	203	GLY	2.2
35	2d	109	GLY	2.2
36	2e	74	GLY	2.2
47	1p	15	PRO	2.2
5	2F	113	ALA	2.2
13	1R	1	MET	2.2
21	2Z	98	MET	2.2
1	1A	2811	A	2.2
1	2A	941	A	2.2
1	2A	1105	U	2.2
1	2A	1298	A	2.2
32	1a	1312	U	2.2
32	2a	1243	A	2.2
33	1b	98	LEU	2.2
7	1H	70	THR	2.2
34	1c	177	THR	2.2
40	1i	117	HIS	2.2
41	2j	56	HIS	2.2
44	2m	116	THR	2.2
8	2I	91	SER	2.2
9	1N	118	LYS	2.2
13	1R	27	SER	2.2
17	2V	12	TYR	2.2
42	1k	44	SER	2.2
52	1u	12	LYS	2.2
1	1A	2126	C	2.2
1	2A	1124	C	2.2
32	1a	1086	C	2.2
32	2a	68	C	2.2
32	2a	217	C	2.2
30	28	43	GLN	2.2
34	1c	3	ASN	2.2
5	2F	28	ILE	2.2
46	1o	87	ILE	2.2
35	2d	197	PRO	2.2
45	2n	20	ALA	2.2
50	1s	34	TRP	2.2
1	2A	1209	G	2.2

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Mol	Chain	Res	Type	RSRZ
1	2A	2497	G	2.2
2	2B	63	G	2.2
2	2B	106	G	2.2
4	2E	202	LYS	2.2
41	2j	54	PHE	2.2
32	1a	384	G	2.2
32	1a	1100	G	2.2
32	2a	1030	G	2.2
32	2a	1062	G	2.2
41	2j	80	LYS	2.2
44	1m	103	THR	2.2
1	2A	61	U	2.2
11	1P	65	ARG	2.2
31	29	4	ARG	2.2
34	2c	29	TYR	2.2
45	2n	41	ARG	2.2
52	1u	7	ARG	2.2
1	1A	571	A	2.2
1	2A	909	A	2.2
32	2a	435	A	2.2
35	2d	83	SER	2.2
34	1c	151	VAL	2.2
42	2k	47	VAL	2.2
6	1G	26	GLN	2.2
47	2p	76	GLN	2.2
38	2g	148	ASN	2.2
34	2c	35	GLU	2.2
1	1A	698	C	2.2
1	2A	970	C	2.2
1	2A	1019	C	2.2
1	2A	2149	C	2.2
32	1a	64	C	2.2
32	1a	1008	C	2.2
4	2E	124	GLY	2.2
8	2I	72	LEU	2.2
33	2b	237	ALA	2.2
34	2c	78	GLY	2.2
35	1d	2	GLY	2.2
35	1d	111	ALA	2.2
44	2m	112	GLY	2.2
47	2p	24	ALA	2.2
50	1s	76	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
51	2t	10	LEU	2.2
16	2U	70	ARG	2.2
40	1i	42	ARG	2.2
42	1k	42	TRP	2.2
42	1k	31	THR	2.2
50	2s	69	HIS	2.2
6	1G	131	TYR	2.2
25	23	15	TYR	2.2
34	1c	138	VAL	2.2
41	2j	72	VAL	2.2
14	2S	31	SER	2.2
8	1I	139	GLN	2.2
1	1A	2314	G	2.2
22	10	12	ASN	2.2
1	2A	1122	A	2.2
1	2A	1745	G	2.2
1	2A	2152	G	2.2
1	2A	2357	A	2.2
32	1a	931	G	2.2
6	1G	139	LEU	2.2
11	2P	115	LEU	2.2
32	1a	1106	A	2.2
32	1a	1270	A	2.2
32	1a	1509	A	2.2
32	2a	23	G	2.2
32	2a	1159	G	2.2
34	2c	90	GLU	2.2
6	2G	2	PRO	2.2
44	1m	86	CYS	2.2
35	1d	169	LYS	2.2
13	1R	2	ARG	2.2
40	2i	42	ARG	2.2
45	2n	19	ARG	2.2
32	1a	173	C	2.2
32	1a	451	C	2.2
32	1a	1020	C	2.2
32	1a	1208	C	2.2
50	2s	33	THR	2.2
33	1b	236	TYR	2.2
38	2g	75	VAL	2.2
40	2i	41	VAL	2.2
47	1p	2	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
26	24	15	ILE	2.2
39	2h	111	ILE	2.2
9	2N	87	LEU	2.2
14	1S	48	LEU	2.2
5	2F	177	ALA	2.2
6	2G	169	ALA	2.2
22	20	24	LYS	2.2
40	1i	122	ALA	2.2
47	1p	24	ALA	2.2
32	1a	1039	U	2.2
32	2a	235	U	2.2
32	2a	545	U	2.2
32	2a	1068	U	2.2
52	2u	9	ARG	2.2
6	2G	126	ASP	2.2
6	2G	141	PHE	2.2
49	2r	43	PHE	2.2
1	2A	1131	A	2.2
32	1a	167	A	2.2
32	2a	953	A	2.2
1	2A	58	G	2.2
1	2A	1108	G	2.2
1	2A	1466	G	2.2
1	2A	1579	G	2.2
1	2A	2133	G	2.2
1	2A	2136	G	2.2
1	2A	2142	G	2.2
1	2A	2207	G	2.2
1	2A	2348	G	2.2
1	2A	2505	G	2.2
2	2B	107	G	2.2
32	1a	92	G	2.2
32	1a	1198	G	2.2
32	1a	1235	G	2.2
32	1a	1275	G	2.2
32	1a	1351	G	2.2
32	2a	1114	G	2.2
6	2G	38	VAL	2.1
20	2Y	83	THR	2.1
34	2c	198	VAL	2.1
34	2c	184	TYR	2.1
1	1A	1913	C	2.1

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Mol	Chain	Res	Type	RSRZ
1	1A	2324	C	2.1
32	1a	1278	C	2.1
32	2a	368	C	2.1
32	2a	926	C	2.1
32	2a	1022	C	2.1
32	2a	1279	C	2.1
6	1G	41	GLN	2.1
21	2Z	150	LEU	2.1
33	1b	90	MET	2.1
12	2Q	117	ALA	2.1
23	11	54	ALA	2.1
34	2c	53	ALA	2.1
3	2D	100	GLY	2.1
11	2P	65	ARG	2.1
38	1g	95	ARG	2.1
41	1j	83	GLU	2.1
50	1s	29	ARG	2.1
51	2t	23	ARG	2.1
52	2u	16	GLY	2.1
33	1b	25	ASN	2.1
1	1A	2123	U	2.1
2	2B	8	U	2.1
24	12	52	ASP	2.1
32	1a	1333	U	2.1
32	2a	1347	U	2.1
12	2Q	106	VAL	2.1
28	26	42	TRP	2.1
40	1i	108	VAL	2.1
41	2j	68	HIS	2.1
41	2j	42	THR	2.1
1	1A	2194	A	2.1
1	2A	651	A	2.1
32	1a	129	A	2.1
32	1a	952	A	2.1
32	2a	1446	A	2.1
34	1c	193	TYR	2.1
42	1k	75	TYR	2.1
6	2G	94	LEU	2.1
6	2G	139	LEU	2.1
10	2O	44	LYS	2.1
13	2R	4	LEU	2.1
17	2V	85	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
33	2b	98	LEU	2.1
39	1h	59	LEU	2.1
1	1A	1144	G	2.1
1	1A	1217	G	2.1
1	2A	1107	G	2.1
1	2A	1214	G	2.1
1	2A	1467	G	2.1
1	2A	2670	G	2.1
2	2B	99	G	2.1
32	1a	65	G	2.1
32	1a	434	G	2.1
32	1a	554	G	2.1
32	1a	919	G	2.1
32	1a	1019	G	2.1
32	1a	1294	G	2.1
32	2a	42	G	2.1
32	2a	388	G	2.1
32	2a	1353	G	2.1
4	2E	158	GLY	2.1
6	1G	54	GLU	2.1
1	1A	1098	C	2.1
1	2A	33	C	2.1
1	2A	935	C	2.1
17	2V	16	PRO	2.1
22	20	16	SER	2.1
30	18	9	GLY	2.1
41	2j	83	GLU	2.1
43	1l	71	PRO	2.1
44	1m	68	GLY	2.1
50	1s	8	GLY	2.1
32	1a	1144	C	2.1
32	1a	1371	C	2.1
32	2a	1212	C	2.1
21	2Z	71	VAL	2.1
29	27	46	VAL	2.1
35	2d	8	VAL	2.1
36	2e	33	VAL	2.1
39	2h	61	VAL	2.1
45	1n	33	VAL	2.1
5	2F	175	THR	2.1
6	1G	157	ILE	2.1
6	2G	173	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
13	2R	111	LEU	2.1
24	22	54	LYS	2.1
25	23	28	LEU	2.1
32	1a	969	U	2.1
32	1a	1473	U	2.1
33	1b	68	ILE	2.1
33	2b	172	ILE	2.1
35	1d	27	TYR	2.1
35	1d	38	TYR	2.1
35	2d	108	LEU	2.1
38	1g	104	LEU	2.1
50	1s	15	LEU	2.1
35	1d	10	ARG	2.1
43	2l	102	ARG	2.1
34	1c	162	GLN	2.1
37	1f	94	GLN	2.1
45	1n	20	ALA	2.1
50	1s	75	ALA	2.1
1	1A	1099	A	2.1
1	1A	1523	A	2.1
11	2P	43	GLY	2.1
32	1a	1233	A	2.1
32	1a	1262	A	2.1
32	1a	1288	A	2.1
32	1a	1432	A	2.1
32	2a	737	A	2.1
32	2a	1360	A	2.1
44	1m	100	GLY	2.1
47	2p	46	PRO	2.1
50	2s	68	GLY	2.1
1	1A	2180	G	2.1
1	1A	2804	G	2.1
1	2A	10	G	2.1
14	2S	69	VAL	2.1
26	24	56	VAL	2.1
32	1a	1082	G	2.1
32	1a	1247	G	2.1
32	2a	1204	G	2.1
34	2c	138	VAL	2.1
34	2c	151	VAL	2.1
1	2A	2184	C	2.1
1	2A	2217	C	2.1

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Mol	Chain	Res	Type	RSRZ
32	1a	24	C	2.1
32	1a	473	C	2.1
32	1a	1171	C	2.1
32	2a	781	C	2.1
32	2a	912	C	2.1
32	2a	1146	C	2.1
34	2c	97	LYS	2.1
39	2h	21	LYS	2.1
15	2T	52	ILE	2.1
34	2c	202	ILE	2.1
40	1i	66	ARG	2.1
52	2u	6	ARG	2.1
37	2f	89	MET	2.1
38	2g	154	TYR	2.1
34	1c	160	ALA	2.1
40	2i	94	ALA	2.1
44	1m	18	ALA	2.1
15	2T	84	GLN	2.1
32	2a	939	U	2.1
26	14	54	GLY	2.1
44	2m	85	GLY	2.1
46	2o	89	GLY	2.1
35	2d	37	PRO	2.1
48	1q	64	PRO	2.1
41	2j	49	VAL	2.1
42	1k	30	VAL	2.1
1	1A	2197	A	2.1
1	1A	2322	A	2.1
6	1G	108	ASN	2.1
32	1a	426	A	2.1
32	1a	850	A	2.1
32	1a	1360	A	2.1
32	2a	1158	A	2.1
34	1c	63	ASN	2.1
34	1c	57	ILE	2.1
35	2d	196	LEU	2.1
41	1j	23	ILE	2.1
4	1E	129	HIS	2.1
41	2j	29	ARG	2.1
45	1n	31	ARG	2.1
50	2s	34	TRP	2.1
12	2Q	135	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
39	2h	9	MET	2.1
45	1n	22	THR	2.1
45	2n	27	CYS	2.1
48	1q	15	MET	2.1
47	2p	17	TYR	2.1
1	2A	2391	C	2.1
1	2A	277	G	2.1
1	2A	384	G	2.1
1	2A	1152	G	2.1
1	2A	1975	G	2.1
15	2T	94	ALA	2.1
21	2Z	113	ALA	2.1
29	27	13	ALA	2.1
32	1a	429	C	2.1
32	1a	1021	C	2.1
32	2a	918	C	2.1
32	2a	986	C	2.1
32	2a	1392	C	2.1
32	1a	388	G	2.1
32	1a	821	G	2.1
32	1a	1015	G	2.1
32	1a	1164	G	2.1
32	1a	1356	G	2.1
32	2a	293	G	2.1
32	2a	675	G	2.1
32	2a	1025	G	2.1
32	2a	1426	G	2.1
32	2a	1499	G	2.1
47	1p	56	ALA	2.1
50	2s	24	ALA	2.1
42	1k	45	GLY	2.1
35	2d	98	GLU	2.1
39	1h	72	PRO	2.1
40	1i	37	PHE	2.1
45	2n	54	PRO	2.1
48	2q	64	PRO	2.1
32	1a	479	U	2.0
32	1a	1347	U	2.0
34	2c	154	SER	2.0
13	2R	2	ARG	2.0
14	2S	20	ARG	2.0
26	24	14	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
34	2c	102	ASN	2.0
37	2f	45	LEU	2.0
38	1g	38	LEU	2.0
41	1j	96	ILE	2.0
43	2l	113	ARG	2.0
44	2m	102	ARG	2.0
50	1s	40	ILE	2.0
26	24	1	MET	2.0
35	2d	125	HIS	2.0
1	1A	2002	A	2.0
1	2A	553	A	2.0
1	2A	1114	A	2.0
3	2D	40	THR	2.0
6	1G	158	ALA	2.0
7	2H	73	ALA	2.0
21	2Z	29	TYR	2.0
32	1a	1311	A	2.0
44	2m	59	TYR	2.0
44	2m	87	TYR	2.0
45	2n	21	TYR	2.0
3	1D	42	GLY	2.0
12	1Q	65	PHE	2.0
42	1k	90	GLY	2.0
38	2g	93	PRO	2.0
44	1m	113	PRO	2.0
44	2m	41	PRO	2.0
21	2Z	13	GLU	2.0
1	2A	2206	C	2.0
2	2B	4	C	2.0
2	2B	88	C	2.0
32	1a	746	C	2.0
32	1a	1285	C	2.0
32	1a	1302	C	2.0
32	2a	520	C	2.0
32	2a	608	C	2.0
32	2a	1049	C	2.0
32	2a	1210	C	2.0
1	2A	672	G	2.0
1	2A	1971	G	2.0
2	2B	24	G	2.0
32	1a	614	G	2.0
32	1a	966	G	2.0

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Mol	Chain	Res	Type	RSRZ
32	1a	992	G	2.0
32	1a	1188	G	2.0
32	2a	71	G	2.0
32	2a	262	G	2.0
32	2a	422	G	2.0
32	2a	920	G	2.0
32	2a	1164	G	2.0
33	1b	196	LEU	2.0
33	1b	215	LEU	2.0
39	2h	39	LEU	2.0
46	1o	39	LEU	2.0
51	1t	25	ARG	2.0
16	2U	88	ILE	2.0
1	2A	1542	U	2.0
4	1E	143	ASN	2.0
32	1a	1023	U	2.0
32	1a	1109	U	2.0
32	2a	1419	U	2.0
40	1i	58	HIS	2.0
33	2b	13	ALA	2.0
3	2D	84	TYR	2.0
40	1i	125	TYR	2.0
52	2u	17	THR	2.0
7	1H	100	GLY	2.0
41	1j	36	GLY	2.0
44	1m	26	GLY	2.0
47	1p	80	PHE	2.0
8	2I	22	LYS	2.0
34	2c	109	PRO	2.0
1	1A	2900	A	2.0
1	2A	2583	A	2.0
32	2a	952	A	2.0
37	2f	88	VAL	2.0
13	2R	29	LEU	2.0
33	2b	145	LEU	2.0
34	2c	94	LEU	2.0
42	1k	98	LEU	2.0
7	2H	136	ILE	2.0
42	2k	83	ILE	2.0
32	2a	1042	C	2.0
32	2a	1182	C	2.0
32	2a	1479	C	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	5MC	1a	945	21/22	0.65	0.17	167,190,209,211	0
32	2MG	1a	1189	24/25	0.68	0.15	211,226,238,245	0
32	2MG	2a	1189	24/25	0.69	0.15	180,204,208,221	0
32	M2G	2a	944	25/26	0.71	0.16	149,173,196,215	0
1	5MU	2A	1936	21/22	0.75	0.11	138,161,170,174	0
32	M2G	1a	944	25/26	0.76	0.14	174,190,199,215	0
32	5MC	2a	945	21/22	0.77	0.12	148,172,188,202	0
1	PSU	2A	1932	20/21	0.78	0.10	119,134,142,160	0
32	PSU	1a	500	20/21	0.81	0.17	94,120,144,149	0
32	5MC	2a	1390	21/22	0.83	0.15	111,129,139,149	0
32	5MC	2a	1387	21/22	0.84	0.14	102,127,139,146	0
32	5MC	1a	1383	21/22	0.84	0.11	87,107,122,125	0
1	OMC	2A	1941	21/22	0.85	0.13	121,133,143,165	0
1	PSU	2A	1938	20/21	0.86	0.11	135,154,172,183	0
32	5MC	2a	1383	21/22	0.86	0.13	105,128,143,145	0
1	5MU	1A	1936	21/22	0.86	0.10	121,142,154,157	0
43	0TD	2l	92	10/11	0.86	0.14	103,114,130,148	0
32	G7M	2a	511	24/25	0.87	0.17	94,123,134,141	0
32	PSU	2a	500	20/21	0.88	0.16	120,144,167,167	0
32	4OC	1a	1385	22/23	0.88	0.12	72,92,108,122	0
32	4OC	2a	1385	22/23	0.88	0.14	109,124,128,131	0
1	PSU	1A	1938	20/21	0.88	0.13	110,132,143,150	0
43	0TD	1l	92	10/11	0.88	0.13	94,117,125,174	0
1	OMC	1A	1941	21/22	0.89	0.17	95,110,120,128	0
32	UR3	1a	1476	21/22	0.89	0.15	80,91,105,107	0
32	5MC	1a	1387	21/22	0.90	0.10	60,85,98,106	0
32	G7M	1a	511	24/25	0.90	0.15	89,108,122,128	0
32	UR3	2a	1476	21/22	0.90	0.14	78,115,129,130	0
1	5MC	2A	1983	21/22	0.91	0.09	70,80,88,108	0
1	PSU	1A	1932	20/21	0.91	0.14	102,112,120,121	0
1	OMG	2A	2262	24/25	0.92	0.14	68,87,96,102	0
1	5MC	1A	1983	21/22	0.92	0.10	26,60,76,94	0
1	5MU	1A	1960	21/22	0.93	0.14	40,55,69,75	0
1	2MA	2A	2514	23/24	0.93	0.11	49,61,71,80	0
1	5MC	2A	1963	21/22	0.93	0.08	79,95,105,115	0
32	MA6	2a	1496	24/25	0.93	0.10	108,121,129,133	0
32	MA6	1a	1497	24/25	0.93	0.11	63,81,94,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MA6	1a	1496	24/25	0.94	0.10	54,73,87,88	0
32	5MC	1a	1390	21/22	0.94	0.10	77,91,105,108	0
1	PSU	2A	2616	20/21	0.94	0.09	54,71,80,96	0
32	MA6	2a	1497	24/25	0.94	0.14	98,115,131,143	0
1	OMG	1A	2262	24/25	0.95	0.11	31,43,50,70	0
1	OMU	2A	2563	21/22	0.95	0.11	59,75,95,110	0
1	5MC	1A	1963	21/22	0.95	0.08	37,53,70,100	0
1	2MA	1A	2514	23/24	0.96	0.09	24,40,53,58	0
1	PSU	1A	2616	20/21	0.96	0.09	30,41,57,57	0
1	OMU	1A	2563	21/22	0.96	0.10	35,43,54,63	0
1	5MU	2A	1960	21/22	0.97	0.10	54,66,78,79	0

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(Å^2)	Q<0.9
53	MG	2a	1706	1/1	0.08	0.21	123,123,123,123	0
53	MG	2a	1783	1/1	0.08	0.24	183,183,183,183	0
53	MG	2a	1744	1/1	0.20	0.14	132,132,132,132	0
53	MG	2a	1833	1/1	0.20	0.21	85,85,85,85	0
53	MG	1m	201	1/1	0.21	0.31	192,192,192,192	0
53	MG	2A	3173	1/1	0.21	0.82	78,78,78,78	0
53	MG	2a	1727	1/1	0.23	0.36	149,149,149,149	0
53	MG	2a	1715	1/1	0.24	0.17	168,168,168,168	0
53	MG	2A	3064	1/1	0.26	0.26	91,91,91,91	0
53	MG	2A	3261	1/1	0.26	0.25	115,115,115,115	0
53	MG	2A	3084	1/1	0.31	0.23	109,109,109,109	0
53	MG	2A	3085	1/1	0.32	0.22	123,123,123,123	0
53	MG	2a	1758	1/1	0.32	0.17	100,100,100,100	0
53	MG	1A	3634	1/1	0.33	0.35	52,52,52,52	0
53	MG	2a	1753	1/1	0.36	0.19	127,127,127,127	0
53	MG	1a	1858	1/1	0.38	0.13	152,152,152,152	0
53	MG	1a	1754	1/1	0.39	0.20	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1733	1/1	0.39	0.19	171,171,171,171	0
53	MG	2a	1757	1/1	0.39	0.21	206,206,206,206	0
53	MG	1A	3188	1/1	0.40	0.22	256,256,256,256	0
53	MG	2A	3010	1/1	0.41	0.31	83,83,83,83	0
53	MG	2a	1762	1/1	0.41	0.24	88,88,88,88	0
53	MG	1d	503	1/1	0.42	0.19	120,120,120,120	0
53	MG	2a	1768	1/1	0.43	0.32	89,89,89,89	0
53	MG	2a	1766	1/1	0.44	0.21	119,119,119,119	0
53	MG	2A	3054	1/1	0.44	0.19	142,142,142,142	0
53	MG	1A	3019	1/1	0.46	0.19	93,93,93,93	0
53	MG	2A	3236	1/1	0.46	0.20	110,110,110,110	0
53	MG	2a	1717	1/1	0.47	0.16	100,100,100,100	0
53	MG	2A	3122	1/1	0.47	0.34	83,83,83,83	0
53	MG	1a	1902	1/1	0.48	0.16	195,195,195,195	0
53	MG	1a	1710	1/1	0.49	0.21	86,86,86,86	0
53	MG	2h	201	1/1	0.50	0.19	123,123,123,123	0
53	MG	1a	1843	1/1	0.52	0.29	208,208,208,208	0
53	MG	1a	1713	1/1	0.52	0.18	81,81,81,81	0
53	MG	2a	1725	1/1	0.52	0.38	93,93,93,93	0
53	MG	2a	1812	1/1	0.52	0.27	86,86,86,86	0
53	MG	2A	3376	1/1	0.52	0.35	108,108,108,108	0
53	MG	2A	3030	1/1	0.52	0.16	104,104,104,104	0
53	MG	2A	3138	1/1	0.53	0.20	79,79,79,79	0
53	MG	2A	3115	1/1	0.53	0.33	105,105,105,105	0
53	MG	2A	3119	1/1	0.53	0.18	129,129,129,129	0
53	MG	2a	1819	1/1	0.53	0.20	180,180,180,180	0
53	MG	2a	1741	1/1	0.53	0.22	114,114,114,114	0
53	MG	1f	8002	1/1	0.53	0.24	110,110,110,110	0
53	MG	1A	3521	1/1	0.54	0.22	58,58,58,58	0
55	MPD	2B	210	8/8	0.54	0.32	114,144,150,162	0
53	MG	2A	3024	1/1	0.55	0.27	86,86,86,86	0
53	MG	2A	3367	1/1	0.55	0.21	90,90,90,90	0
53	MG	1a	1703	1/1	0.55	0.25	97,97,97,97	0
53	MG	2A	3446	1/1	0.55	0.23	115,115,115,115	0
53	MG	1a	1726	1/1	0.56	0.17	91,91,91,91	0
53	MG	1A	3130	1/1	0.56	0.72	100,100,100,100	0
53	MG	2A	3118	1/1	0.56	0.15	76,76,76,76	0
53	MG	2A	3497	1/1	0.56	0.20	75,75,75,75	0
53	MG	1a	1729	1/1	0.57	0.17	96,96,96,96	0
53	MG	1a	1810	1/1	0.57	0.41	211,211,211,211	0
53	MG	1a	1732	1/1	0.57	0.17	110,110,110,110	0
53	MG	1a	1746	1/1	0.57	0.17	167,167,167,167	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1729	1/1	0.57	0.17	75,75,75,75	0
53	MG	1a	1768	1/1	0.58	0.20	172,172,172,172	0
53	MG	1A	3093	1/1	0.58	0.26	71,71,71,71	0
53	MG	1G	8003	1/1	0.58	0.13	92,92,92,92	0
53	MG	2A	3328	1/1	0.59	0.38	89,89,89,89	0
53	MG	2n	101	1/1	0.59	0.25	169,169,169,169	0
53	MG	1a	1717	1/1	0.59	0.12	196,196,196,196	0
53	MG	20	101	1/1	0.60	0.30	82,82,82,82	0
53	MG	2a	1745	1/1	0.60	0.20	79,79,79,79	0
53	MG	1a	1716	1/1	0.60	0.25	179,179,179,179	0
53	MG	2a	1738	1/1	0.60	0.19	218,218,218,218	0
53	MG	2I	3002	1/1	0.60	0.19	129,129,129,129	0
53	MG	1a	1788	1/1	0.61	0.25	83,83,83,83	0
53	MG	1a	1727	1/1	0.61	0.10	92,92,92,92	0
53	MG	1A	3511	1/1	0.61	0.17	77,77,77,77	0
53	MG	1A	3526	1/1	0.61	0.22	113,113,113,113	0
53	MG	1a	1881	1/1	0.61	0.15	99,99,99,99	0
53	MG	1a	1884	1/1	0.62	0.13	104,104,104,104	0
53	MG	1a	1784	1/1	0.62	0.48	96,96,96,96	0
53	MG	2A	3338	1/1	0.62	0.15	86,86,86,86	0
53	MG	1a	1904	1/1	0.62	0.16	240,240,240,240	0
53	MG	2a	1737	1/1	0.62	0.16	85,85,85,85	0
53	MG	2a	1761	1/1	0.62	0.21	90,90,90,90	0
53	MG	1a	1735	1/1	0.62	0.21	207,207,207,207	0
53	MG	1A	3696	1/1	0.62	0.33	45,45,45,45	0
53	MG	2A	3060	1/1	0.63	0.18	112,112,112,112	0
53	MG	1a	1851	1/1	0.63	0.29	84,84,84,84	0
53	MG	2O	202	1/1	0.63	0.24	115,115,115,115	0
53	MG	2A	3114	1/1	0.63	0.17	110,110,110,110	0
53	MG	2A	3077	1/1	0.63	0.17	86,86,86,86	0
53	MG	2A	3555	1/1	0.64	0.12	225,225,225,225	0
53	MG	1A	3772	1/1	0.64	0.33	98,98,98,98	0
53	MG	1A	3144	1/1	0.64	0.14	92,92,92,92	0
53	MG	2A	3106	1/1	0.65	0.30	74,74,74,74	0
53	MG	2A	3450	1/1	0.65	0.21	103,103,103,103	0
53	MG	2A	3461	1/1	0.65	0.21	95,95,95,95	0
53	MG	2A	3484	1/1	0.65	0.18	81,81,81,81	0
53	MG	1A	3466	1/1	0.65	0.21	45,45,45,45	0
53	MG	2a	1735	1/1	0.65	0.17	122,122,122,122	0
53	MG	2a	1736	1/1	0.65	0.30	125,125,125,125	0
53	MG	1a	1868	1/1	0.65	0.23	128,128,128,128	0
53	MG	2a	1816	1/1	0.65	0.29	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3315	1/1	0.65	0.30	64,64,64,64	0
53	MG	1A	3600	1/1	0.65	0.43	58,58,58,58	0
53	MG	1T	8002	1/1	0.65	0.15	94,94,94,94	0
53	MG	2A	3035	1/1	0.65	0.20	90,90,90,90	0
53	MG	2A	3046	1/1	0.65	0.20	68,68,68,68	0
53	MG	2a	1804	1/1	0.66	0.13	151,151,151,151	0
53	MG	2A	3366	1/1	0.66	0.30	86,86,86,86	0
53	MG	2A	3086	1/1	0.66	0.14	106,106,106,106	0
53	MG	2A	3098	1/1	0.66	0.12	90,90,90,90	0
53	MG	1A	3396	1/1	0.66	0.31	80,80,80,80	0
53	MG	1A	3815	1/1	0.66	0.18	68,68,68,68	0
53	MG	1A	3087	1/1	0.66	0.20	94,94,94,94	0
53	MG	2A	3474	1/1	0.66	0.23	102,102,102,102	0
53	MG	2a	1714	1/1	0.67	0.14	106,106,106,106	0
53	MG	2A	3290	1/1	0.67	0.23	84,84,84,84	0
53	MG	2a	1716	1/1	0.67	0.16	112,112,112,112	0
53	MG	2a	1743	1/1	0.67	0.28	98,98,98,98	0
53	MG	2a	1806	1/1	0.67	0.46	85,85,85,85	0
53	MG	2A	3500	1/1	0.67	0.25	99,99,99,99	0
53	MG	2A	3111	1/1	0.67	0.08	138,138,138,138	0
53	MG	1a	1718	1/1	0.67	0.21	193,193,193,193	0
53	MG	2A	3093	1/1	0.67	0.17	93,93,93,93	0
53	MG	1a	1866	1/1	0.67	0.42	68,68,68,68	0
53	MG	2a	1703	1/1	0.67	0.30	84,84,84,84	0
53	MG	2A	3026	1/1	0.67	0.15	119,119,119,119	0
53	MG	2A	3205	1/1	0.68	0.37	81,81,81,81	0
53	MG	1a	1758	1/1	0.68	0.13	152,152,152,152	0
53	MG	2A	3080	1/1	0.68	0.19	144,144,144,144	0
53	MG	2A	3476	1/1	0.68	0.24	132,132,132,132	0
53	MG	2A	3266	1/1	0.68	0.20	55,55,55,55	0
53	MG	1A	3737	1/1	0.68	0.17	73,73,73,73	0
53	MG	2a	1710	1/1	0.68	0.10	119,119,119,119	0
53	MG	2A	3066	1/1	0.68	0.14	92,92,92,92	0
53	MG	2A	3539	1/1	0.68	0.16	78,78,78,78	0
53	MG	2A	3550	1/1	0.68	0.17	61,61,61,61	0
53	MG	2F	301	1/1	0.69	0.26	72,72,72,72	0
53	MG	1A	3075	1/1	0.69	0.23	83,83,83,83	0
53	MG	1a	1854	1/1	0.69	0.20	112,112,112,112	0
53	MG	2A	3499	1/1	0.69	0.22	70,70,70,70	0
53	MG	1a	1820	1/1	0.69	0.10	107,107,107,107	0
53	MG	1a	1745	1/1	0.69	0.23	71,71,71,71	0
53	MG	2A	3007	1/1	0.69	0.36	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1760	1/1	0.69	0.13	81,81,81,81	0
53	MG	2a	1711	1/1	0.69	0.24	84,84,84,84	0
53	MG	2A	3008	1/1	0.69	0.30	100,100,100,100	0
53	MG	2E	303	1/1	0.69	0.22	79,79,79,79	0
53	MG	1a	1719	1/1	0.70	0.10	224,224,224,224	0
53	MG	1A	3524	1/1	0.70	0.59	79,79,79,79	0
53	MG	1t	3001	1/1	0.70	0.19	92,92,92,92	0
53	MG	1A	3525	1/1	0.70	0.31	108,108,108,108	0
53	MG	2A	3188	1/1	0.70	0.16	79,79,79,79	0
53	MG	2E	302	1/1	0.70	0.12	106,106,106,106	0
53	MG	2A	3194	1/1	0.70	0.77	75,75,75,75	0
53	MG	2a	1732	1/1	0.70	0.30	188,188,188,188	0
53	MG	2E	305	1/1	0.70	0.14	83,83,83,83	0
53	MG	2A	3431	1/1	0.70	0.20	101,101,101,101	0
53	MG	1a	1839	1/1	0.70	0.20	121,121,121,121	0
53	MG	1N	201	1/1	0.70	0.28	86,86,86,86	0
53	MG	1a	1846	1/1	0.70	0.16	227,227,227,227	0
53	MG	1A	3024	1/1	0.70	0.20	91,91,91,91	0
53	MG	2a	1824	1/1	0.70	0.18	108,108,108,108	0
53	MG	2A	3276	1/1	0.70	0.20	73,73,73,73	0
53	MG	2A	3286	1/1	0.70	0.17	79,79,79,79	0
53	MG	1A	3049	1/1	0.70	0.18	84,84,84,84	0
53	MG	2a	1751	1/1	0.70	0.15	109,109,109,109	0
53	MG	2A	3143	1/1	0.71	0.11	107,107,107,107	0
53	MG	2W	202	1/1	0.71	0.26	80,80,80,80	0
53	MG	2A	3163	1/1	0.71	0.30	75,75,75,75	0
53	MG	1A	3300	1/1	0.71	0.18	69,69,69,69	0
53	MG	1A	3222	1/1	0.71	0.17	46,46,46,46	0
53	MG	2A	3029	1/1	0.71	0.13	91,91,91,91	0
53	MG	1A	3289	1/1	0.71	0.20	61,61,61,61	0
53	MG	2a	1713	1/1	0.71	0.37	119,119,119,119	0
53	MG	2A	3207	1/1	0.71	0.34	75,75,75,75	0
53	MG	2A	3382	1/1	0.71	0.31	85,85,85,85	0
53	MG	1A	3486	1/1	0.71	0.18	75,75,75,75	0
53	MG	1a	1898	1/1	0.71	0.17	64,64,64,64	0
53	MG	1a	1812	1/1	0.71	0.13	93,93,93,93	0
53	MG	2A	3090	1/1	0.71	0.14	106,106,106,106	0
53	MG	1A	3507	1/1	0.71	0.12	118,118,118,118	0
53	MG	1a	1834	1/1	0.72	0.15	102,102,102,102	0
53	MG	2A	3094	1/1	0.72	0.17	117,117,117,117	0
53	MG	2a	1786	1/1	0.72	0.28	91,91,91,91	0
53	MG	2A	3417	1/1	0.72	0.31	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1a	1848	1/1	0.72	0.10	107,107,107,107	0
53	MG	2A	3104	1/1	0.72	0.11	192,192,192,192	0
53	MG	2A	3128	1/1	0.72	0.53	97,97,97,97	0
53	MG	1A	3752	1/1	0.72	0.20	61,61,61,61	0
53	MG	2D	305	1/1	0.72	0.27	115,115,115,115	0
53	MG	2A	3467	1/1	0.72	0.23	79,79,79,79	0
53	MG	2a	1712	1/1	0.72	0.11	109,109,109,109	0
53	MG	1A	3013	1/1	0.72	0.16	43,43,43,43	0
53	MG	1a	1845	1/1	0.72	0.19	106,106,106,106	0
53	MG	2a	1777	1/1	0.73	0.19	91,91,91,91	0
53	MG	2A	3099	1/1	0.73	0.10	105,105,105,105	0
53	MG	2a	1704	1/1	0.73	0.27	105,105,105,105	0
53	MG	2A	3139	1/1	0.73	0.10	85,85,85,85	0
53	MG	1a	1896	1/1	0.73	0.26	100,100,100,100	0
53	MG	2A	3463	1/1	0.73	0.18	68,68,68,68	0
53	MG	2A	3505	1/1	0.73	0.12	99,99,99,99	0
53	MG	2A	3518	1/1	0.73	0.20	91,91,91,91	0
53	MG	2a	1822	1/1	0.73	0.18	101,101,101,101	0
53	MG	1d	502	1/1	0.73	0.15	66,66,66,66	0
53	MG	1a	1712	1/1	0.73	0.12	123,123,123,123	0
53	MG	2a	1837	1/1	0.73	0.14	78,78,78,78	0
53	MG	2a	1840	1/1	0.73	0.13	86,86,86,86	0
53	MG	1A	3731	1/1	0.73	0.11	86,86,86,86	0
53	MG	28	8002	1/1	0.73	0.21	74,74,74,74	0
55	MPD	1T	8004	8/8	0.73	0.19	85,109,114,114	0
53	MG	2a	1769	1/1	0.73	0.17	97,97,97,97	0
53	MG	1a	1852	1/1	0.74	0.30	70,70,70,70	0
53	MG	2A	3443	1/1	0.74	0.15	91,91,91,91	0
53	MG	1a	1751	1/1	0.74	0.14	105,105,105,105	0
53	MG	2a	1792	1/1	0.74	0.24	157,157,157,157	0
53	MG	1a	1831	1/1	0.74	0.14	110,110,110,110	0
53	MG	2D	307	1/1	0.74	0.20	90,90,90,90	0
53	MG	1A	3040	1/1	0.74	0.69	61,61,61,61	0
53	MG	1A	3781	1/1	0.74	0.22	33,33,33,33	0
53	MG	1A	3203	1/1	0.74	0.22	55,55,55,55	0
53	MG	2a	1754	1/1	0.74	0.29	83,83,83,83	0
53	MG	1A	3712	1/1	0.74	0.35	79,79,79,79	0
53	MG	2A	3065	1/1	0.74	0.30	76,76,76,76	0
53	MG	1A	3210	1/1	0.74	0.23	53,53,53,53	0
53	MG	2A	3070	1/1	0.74	0.25	83,83,83,83	0
53	MG	1A	3301	1/1	0.74	0.38	53,53,53,53	0
53	MG	1a	1899	1/1	0.74	0.09	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3407	1/1	0.74	0.23	76,76,76,76	0
53	MG	1A	3394	1/1	0.74	0.35	92,92,92,92	0
53	MG	2a	1793	1/1	0.75	0.27	87,87,87,87	0
53	MG	2a	1801	1/1	0.75	0.33	72,72,72,72	0
53	MG	1a	1801	1/1	0.75	0.19	164,164,164,164	0
53	MG	2a	1728	1/1	0.75	0.09	98,98,98,98	0
53	MG	1a	1750	1/1	0.75	0.13	118,118,118,118	0
53	MG	1A	3238	1/1	0.75	0.17	89,89,89,89	0
53	MG	1a	1817	1/1	0.75	0.11	122,122,122,122	0
53	MG	2A	3150	1/1	0.75	0.25	79,79,79,79	0
53	MG	2A	3160	1/1	0.75	0.17	93,93,93,93	0
53	MG	1a	1775	1/1	0.75	0.45	74,74,74,74	0
53	MG	2A	3495	1/1	0.75	0.16	69,69,69,69	0
53	MG	1A	3669	1/1	0.75	0.24	69,69,69,69	0
53	MG	2A	3433	1/1	0.75	0.10	94,94,94,94	0
53	MG	2A	3120	1/1	0.75	0.16	66,66,66,66	0
53	MG	2A	3444	1/1	0.75	0.27	54,54,54,54	0
53	MG	1a	1756	1/1	0.75	0.29	72,72,72,72	0
53	MG	2A	3125	1/1	0.76	0.18	114,114,114,114	0
53	MG	2A	3091	1/1	0.76	0.23	73,73,73,73	0
53	MG	1a	1857	1/1	0.76	0.14	122,122,122,122	0
53	MG	2a	1776	1/1	0.76	0.20	157,157,157,157	0
53	MG	1A	3576	1/1	0.76	0.18	75,75,75,75	0
53	MG	2A	3322	1/1	0.76	0.12	114,114,114,114	0
53	MG	1a	1859	1/1	0.76	0.14	105,105,105,105	0
53	MG	2U	202	1/1	0.76	0.29	81,81,81,81	0
53	MG	1a	1730	1/1	0.76	0.09	81,81,81,81	0
53	MG	1a	1867	1/1	0.76	0.17	143,143,143,143	0
53	MG	2A	3105	1/1	0.76	0.24	88,88,88,88	0
53	MG	1A	3428	1/1	0.76	0.29	85,85,85,85	0
53	MG	1A	3429	1/1	0.76	0.16	50,50,50,50	0
53	MG	1A	3639	1/1	0.76	0.23	85,85,85,85	0
53	MG	2a	1708	1/1	0.76	0.13	129,129,129,129	0
53	MG	2a	1746	1/1	0.76	0.13	67,67,67,67	0
53	MG	1A	3018	1/1	0.76	0.33	70,70,70,70	0
53	MG	2a	1829	1/1	0.76	0.40	99,99,99,99	0
53	MG	2a	1832	1/1	0.76	0.11	76,76,76,76	0
53	MG	1A	3679	1/1	0.76	0.30	68,68,68,68	0
53	MG	2A	3543	1/1	0.76	0.18	91,91,91,91	0
53	MG	1A	3047	1/1	0.76	0.20	52,52,52,52	0
53	MG	2A	3248	1/1	0.76	0.14	103,103,103,103	0
53	MG	2B	204	1/1	0.76	0.20	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3029	1/1	0.76	0.14	72,72,72,72	0
53	MG	1A	3567	1/1	0.76	0.18	83,83,83,83	0
53	MG	1a	1880	1/1	0.77	0.16	67,67,67,67	0
53	MG	2A	3477	1/1	0.77	0.23	115,115,115,115	0
53	MG	2A	3245	1/1	0.77	0.24	68,68,68,68	0
53	MG	1a	1725	1/1	0.77	0.13	55,55,55,55	0
53	MG	2A	3403	1/1	0.77	0.11	102,102,102,102	0
53	MG	2A	3258	1/1	0.77	0.15	71,71,71,71	0
53	MG	1A	3660	1/1	0.77	0.29	54,54,54,54	0
53	MG	1a	1888	1/1	0.77	0.27	68,68,68,68	0
53	MG	1A	3346	1/1	0.77	0.17	27,27,27,27	0
53	MG	2A	3061	1/1	0.77	0.24	95,95,95,95	0
53	MG	2a	1764	1/1	0.77	0.16	139,139,139,139	0
53	MG	1a	1771	1/1	0.77	0.11	62,62,62,62	0
53	MG	2a	1767	1/1	0.77	0.18	59,59,59,59	0
53	MG	2A	3177	1/1	0.77	0.20	70,70,70,70	0
53	MG	1A	3086	1/1	0.77	0.10	77,77,77,77	0
53	MG	1D	306	1/1	0.77	0.16	49,49,49,49	0
53	MG	1A	3177	1/1	0.77	0.31	96,96,96,96	0
53	MG	2A	3344	1/1	0.77	0.18	93,93,93,93	0
53	MG	1a	1879	1/1	0.77	0.15	72,72,72,72	0
53	MG	2a	1702	1/1	0.78	0.16	104,104,104,104	0
53	MG	2A	3157	1/1	0.78	0.20	102,102,102,102	0
53	MG	1A	3142	1/1	0.78	0.29	75,75,75,75	0
53	MG	1A	3329	1/1	0.78	0.20	64,64,64,64	0
53	MG	1e	3001	1/1	0.78	0.10	89,89,89,89	0
53	MG	2A	3364	1/1	0.78	0.18	69,69,69,69	0
53	MG	1a	1840	1/1	0.78	0.22	99,99,99,99	0
53	MG	1A	3425	1/1	0.78	0.15	79,79,79,79	0
53	MG	2A	3375	1/1	0.78	0.49	100,100,100,100	0
53	MG	1A	3604	1/1	0.78	0.17	81,81,81,81	0
53	MG	2a	1771	1/1	0.78	0.17	108,108,108,108	0
53	MG	2A	3198	1/1	0.78	0.39	66,66,66,66	0
53	MG	1A	3614	1/1	0.78	0.26	68,68,68,68	0
53	MG	2A	3117	1/1	0.78	0.11	69,69,69,69	0
53	MG	2a	1718	1/1	0.78	0.12	89,89,89,89	0
53	MG	2a	1720	1/1	0.78	0.09	68,68,68,68	0
53	MG	2A	3409	1/1	0.78	0.26	59,59,59,59	0
53	MG	2a	1798	1/1	0.78	0.15	98,98,98,98	0
53	MG	2A	3219	1/1	0.78	0.17	100,100,100,100	0
53	MG	2B	208	1/1	0.78	0.17	68,68,68,68	0
53	MG	2A	3425	1/1	0.78	0.22	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3629	1/1	0.78	0.26	44,44,44,44	0
53	MG	1A	3059	1/1	0.78	0.28	67,67,67,67	0
53	MG	1a	1895	1/1	0.78	0.18	66,66,66,66	0
53	MG	1A	3352	1/1	0.78	0.21	52,52,52,52	0
53	MG	2a	1823	1/1	0.78	0.09	102,102,102,102	0
53	MG	1A	3653	1/1	0.78	0.31	59,59,59,59	0
53	MG	2I	3001	1/1	0.78	0.09	159,159,159,159	0
53	MG	1A	3438	1/1	0.78	0.18	66,66,66,66	0
53	MG	2A	3034	1/1	0.78	0.19	96,96,96,96	0
53	MG	1a	1720	1/1	0.78	0.18	127,127,127,127	0
53	MG	2A	3041	1/1	0.78	0.17	66,66,66,66	0
53	MG	2a	1843	1/1	0.78	0.12	99,99,99,99	0
53	MG	2X	101	1/1	0.78	0.18	70,70,70,70	0
53	MG	2Z	301	1/1	0.78	0.14	99,99,99,99	0
53	MG	1A	3358	1/1	0.78	0.16	75,75,75,75	0
53	MG	2A	3475	1/1	0.78	0.13	83,83,83,83	0
53	MG	2A	3298	1/1	0.79	0.14	87,87,87,87	0
53	MG	2A	3075	1/1	0.79	0.09	127,127,127,127	0
53	MG	2A	3126	1/1	0.79	0.15	107,107,107,107	0
53	MG	1A	3025	1/1	0.79	0.55	79,79,79,79	0
53	MG	1a	1819	1/1	0.79	0.13	124,124,124,124	0
53	MG	1A	3812	1/1	0.79	0.11	61,61,61,61	0
53	MG	2A	3009	1/1	0.79	0.14	71,71,71,71	0
53	MG	2a	1770	1/1	0.79	0.10	141,141,141,141	0
53	MG	2A	3148	1/1	0.79	0.13	76,76,76,76	0
53	MG	2a	1774	1/1	0.79	0.15	152,152,152,152	0
53	MG	1A	3201	1/1	0.79	0.15	41,41,41,41	0
53	MG	2A	3088	1/1	0.79	0.37	58,58,58,58	0
53	MG	2A	3013	1/1	0.79	0.17	79,79,79,79	0
53	MG	2a	1721	1/1	0.79	0.10	72,72,72,72	0
53	MG	2a	1724	1/1	0.79	0.25	103,103,103,103	0
53	MG	1A	3303	1/1	0.79	0.19	95,95,95,95	0
53	MG	1F	303	1/1	0.79	0.26	56,56,56,56	0
53	MG	2A	3027	1/1	0.79	0.09	95,95,95,95	0
53	MG	1A	3002	1/1	0.79	0.54	60,60,60,60	0
53	MG	1A	3331	1/1	0.79	0.16	49,49,49,49	0
53	MG	2A	3103	1/1	0.79	0.12	96,96,96,96	0
53	MG	1A	3728	1/1	0.79	0.30	69,69,69,69	0
53	MG	1A	3276	1/1	0.79	0.31	68,68,68,68	0
53	MG	1A	3207	1/1	0.79	0.16	52,52,52,52	0
53	MG	1a	1795	1/1	0.79	0.16	69,69,69,69	0
53	MG	2A	3113	1/1	0.79	0.17	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1a	1798	1/1	0.79	0.32	76,76,76,76	0
53	MG	2a	1830	1/1	0.79	0.21	98,98,98,98	0
53	MG	1A	3448	1/1	0.79	0.20	61,61,61,61	0
53	MG	2Y	502	1/1	0.79	0.18	90,90,90,90	0
53	MG	2a	1836	1/1	0.79	0.65	83,83,83,83	0
53	MG	1a	1806	1/1	0.79	0.18	119,119,119,119	0
53	MG	1A	3541	1/1	0.79	0.27	78,78,78,78	0
53	MG	2A	3270	1/1	0.79	0.14	89,89,89,89	0
53	MG	1f	8001	1/1	0.79	0.11	78,78,78,78	0
53	MG	1a	1811	1/1	0.79	0.13	61,61,61,61	0
53	MG	1A	3780	1/1	0.79	0.32	74,74,74,74	0
53	MG	2A	3291	1/1	0.79	0.18	94,94,94,94	0
53	MG	1a	1814	1/1	0.80	0.13	84,84,84,84	0
53	MG	1D	307	1/1	0.80	0.29	53,53,53,53	0
53	MG	1a	1891	1/1	0.80	0.30	67,67,67,67	0
53	MG	1A	3510	1/1	0.80	0.23	74,74,74,74	0
53	MG	2A	3347	1/1	0.80	0.11	80,80,80,80	0
53	MG	2A	3361	1/1	0.80	0.30	95,95,95,95	0
53	MG	1A	3062	1/1	0.80	0.28	58,58,58,58	0
53	MG	1A	3398	1/1	0.80	0.19	71,71,71,71	0
53	MG	1A	3727	1/1	0.80	0.12	82,82,82,82	0
53	MG	2A	3069	1/1	0.80	0.17	75,75,75,75	0
53	MG	2Q	8001	1/1	0.80	0.12	72,72,72,72	0
53	MG	2a	1722	1/1	0.80	0.26	161,161,161,161	0
53	MG	2a	1828	1/1	0.80	0.19	103,103,103,103	0
53	MG	1a	1901	1/1	0.80	0.10	91,91,91,91	0
53	MG	1a	1860	1/1	0.80	0.10	92,92,92,92	0
53	MG	2A	3149	1/1	0.80	0.15	81,81,81,81	0
53	MG	10	106	1/1	0.80	0.14	72,72,72,72	0
53	MG	2A	3502	1/1	0.80	0.21	84,84,84,84	0
53	MG	1a	1753	1/1	0.80	0.25	184,184,184,184	0
53	MG	1A	3110	1/1	0.80	0.23	109,109,109,109	0
53	MG	1A	3330	1/1	0.80	0.18	105,105,105,105	0
53	MG	2f	3001	1/1	0.80	0.15	87,87,87,87	0
53	MG	1A	3821	1/1	0.80	0.24	86,86,86,86	0
53	MG	2A	3174	1/1	0.80	0.18	75,75,75,75	0
53	MG	2t	3001	1/1	0.80	0.10	109,109,109,109	0
53	MG	2A	3176	1/1	0.80	0.20	70,70,70,70	0
53	MG	1A	3122	1/1	0.80	0.15	81,81,81,81	0
53	MG	2A	3439	1/1	0.81	0.14	54,54,54,54	0
53	MG	1A	3519	1/1	0.81	0.22	98,98,98,98	0
53	MG	1a	1706	1/1	0.81	0.12	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1a	1709	1/1	0.81	0.11	209,209,209,209	0
53	MG	1A	3670	1/1	0.81	0.31	85,85,85,85	0
53	MG	2A	3275	1/1	0.81	0.23	81,81,81,81	0
53	MG	2A	3462	1/1	0.81	0.16	88,88,88,88	0
53	MG	1A	3285	1/1	0.81	0.12	27,27,27,27	0
53	MG	2A	3284	1/1	0.81	0.23	150,150,150,150	0
53	MG	2a	1707	1/1	0.81	0.11	76,76,76,76	0
53	MG	1A	3602	1/1	0.81	0.13	58,58,58,58	0
53	MG	1s	101	1/1	0.81	0.19	158,158,158,158	0
53	MG	1A	3402	1/1	0.81	0.09	70,70,70,70	0
53	MG	2A	3293	1/1	0.81	0.26	68,68,68,68	0
53	MG	2A	3005	1/1	0.81	0.20	87,87,87,87	0
53	MG	2A	3493	1/1	0.81	0.14	84,84,84,84	0
53	MG	1B	214	1/1	0.81	0.12	82,82,82,82	0
53	MG	1A	3713	1/1	0.81	0.13	68,68,68,68	0
53	MG	2a	1794	1/1	0.81	0.18	84,84,84,84	0
53	MG	2A	3323	1/1	0.81	0.19	101,101,101,101	0
53	MG	1A	3315	1/1	0.81	0.18	64,64,64,64	0
53	MG	1A	3233	1/1	0.81	0.17	35,35,35,35	0
53	MG	2A	3342	1/1	0.81	0.07	86,86,86,86	0
53	MG	1a	1770	1/1	0.81	0.12	81,81,81,81	0
53	MG	2A	3523	1/1	0.81	0.10	69,69,69,69	0
53	MG	2A	3535	1/1	0.81	0.14	84,84,84,84	0
53	MG	1a	1885	1/1	0.81	0.20	86,86,86,86	0
53	MG	2A	3358	1/1	0.81	0.20	78,78,78,78	0
53	MG	2A	3025	1/1	0.81	0.30	85,85,85,85	0
53	MG	2a	1825	1/1	0.81	0.19	90,90,90,90	0
53	MG	1a	1886	1/1	0.81	0.22	83,83,83,83	0
53	MG	1a	1838	1/1	0.81	0.15	67,67,67,67	0
53	MG	1A	3540	1/1	0.81	0.16	67,67,67,67	0
53	MG	1a	1772	1/1	0.81	0.12	88,88,88,88	0
53	MG	1A	3124	1/1	0.81	0.13	82,82,82,82	0
53	MG	1a	1781	1/1	0.81	0.21	123,123,123,123	0
53	MG	2A	3400	1/1	0.81	0.26	81,81,81,81	0
53	MG	1A	3545	1/1	0.81	0.27	72,72,72,72	0
53	MG	1A	3223	1/1	0.81	0.24	44,44,44,44	0
53	MG	2A	3212	1/1	0.81	0.14	59,59,59,59	0
53	MG	17	102	1/1	0.81	0.25	56,56,56,56	0
53	MG	2A	3424	1/1	0.81	0.35	77,77,77,77	0
53	MG	1a	1797	1/1	0.81	0.17	112,112,112,112	0
53	MG	1b	3001	1/1	0.81	0.11	132,132,132,132	0
53	MG	2A	3062	1/1	0.81	0.07	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3310	1/1	0.82	0.12	70,70,70,70	0
53	MG	2A	3181	1/1	0.82	0.20	61,61,61,61	0
53	MG	1a	1855	1/1	0.82	0.17	71,71,71,71	0
53	MG	1A	3769	1/1	0.82	0.14	71,71,71,71	0
53	MG	1A	3593	1/1	0.82	0.16	62,62,62,62	0
53	MG	1A	3385	1/1	0.82	0.14	70,70,70,70	0
53	MG	1A	3163	1/1	0.82	0.14	75,75,75,75	0
53	MG	1A	3811	1/1	0.82	0.23	72,72,72,72	0
53	MG	1A	3237	1/1	0.82	0.20	65,65,65,65	0
53	MG	1A	3698	1/1	0.82	0.10	78,78,78,78	0
53	MG	2A	3242	1/1	0.82	0.14	60,60,60,60	0
53	MG	1a	1837	1/1	0.82	0.10	97,97,97,97	0
53	MG	2a	1811	1/1	0.82	0.18	73,73,73,73	0
53	MG	1a	1782	1/1	0.82	0.13	104,104,104,104	0
53	MG	2a	1739	1/1	0.82	0.17	164,164,164,164	0
53	MG	2A	3254	1/1	0.82	0.34	115,115,115,115	0
53	MG	2A	3369	1/1	0.82	0.13	79,79,79,79	0
53	MG	1a	1740	1/1	0.82	0.33	91,91,91,91	0
53	MG	2A	3498	1/1	0.82	0.11	59,59,59,59	0
53	MG	1a	1744	1/1	0.82	0.23	69,69,69,69	0
53	MG	1A	3118	1/1	0.82	0.13	91,91,91,91	0
53	MG	2A	3387	1/1	0.82	0.22	82,82,82,82	0
53	MG	1A	3622	1/1	0.82	0.12	44,44,44,44	0
53	MG	2A	3507	1/1	0.82	0.27	92,92,92,92	0
53	MG	2A	3511	1/1	0.82	0.17	132,132,132,132	0
53	MG	2A	3158	1/1	0.82	0.10	80,80,80,80	0
53	MG	1a	1887	1/1	0.82	0.25	60,60,60,60	0
53	MG	2A	3525	1/1	0.82	0.22	106,106,106,106	0
53	MG	2a	1842	1/1	0.82	0.15	98,98,98,98	0
53	MG	2A	3283	1/1	0.82	0.15	56,56,56,56	0
53	MG	1A	3445	1/1	0.82	0.16	71,71,71,71	0
53	MG	2A	3165	1/1	0.82	0.12	73,73,73,73	0
53	MG	1A	3564	1/1	0.82	0.33	52,52,52,52	0
53	MG	1A	3399	1/1	0.82	0.14	50,50,50,50	0
53	MG	1A	3066	1/1	0.82	0.12	93,93,93,93	0
53	MG	1A	3577	1/1	0.82	0.24	64,64,64,64	0
53	MG	1A	3493	1/1	0.83	0.15	110,110,110,110	0
53	MG	1A	3494	1/1	0.83	0.12	86,86,86,86	0
53	MG	2A	3541	1/1	0.83	0.10	57,57,57,57	0
53	MG	18	102	1/1	0.83	0.39	75,75,75,75	0
53	MG	1A	3164	1/1	0.83	0.21	77,77,77,77	0
53	MG	1A	3309	1/1	0.83	0.13	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1785	1/1	0.83	0.33	89,89,89,89	0
53	MG	2A	3560	1/1	0.83	0.33	96,96,96,96	0
53	MG	2a	1790	1/1	0.83	0.17	96,96,96,96	0
53	MG	2A	3563	1/1	0.83	0.15	63,63,63,63	0
53	MG	1A	3172	1/1	0.83	0.17	49,49,49,49	0
53	MG	1A	3571	1/1	0.83	0.15	63,63,63,63	0
53	MG	2A	3314	1/1	0.83	0.09	80,80,80,80	0
53	MG	1a	1821	1/1	0.83	0.19	130,130,130,130	0
53	MG	2A	3200	1/1	0.83	0.18	59,59,59,59	0
53	MG	2A	3203	1/1	0.83	0.15	74,74,74,74	0
53	MG	1a	1903	1/1	0.83	0.14	81,81,81,81	0
53	MG	1a	1825	1/1	0.83	0.11	98,98,98,98	0
53	MG	2a	1815	1/1	0.83	0.15	158,158,158,158	0
53	MG	1a	1827	1/1	0.83	0.19	76,76,76,76	0
53	MG	2a	1818	1/1	0.83	0.45	106,106,106,106	0
53	MG	1A	3643	1/1	0.83	0.18	46,46,46,46	0
53	MG	2A	3230	1/1	0.83	0.16	87,87,87,87	0
53	MG	2A	3232	1/1	0.83	0.20	76,76,76,76	0
53	MG	1A	3143	1/1	0.83	0.08	69,69,69,69	0
53	MG	2A	3483	1/1	0.83	0.16	99,99,99,99	0
53	MG	1a	1714	1/1	0.83	0.25	211,211,211,211	0
53	MG	2A	3485	1/1	0.83	0.14	100,100,100,100	0
53	MG	1A	3400	1/1	0.83	0.20	68,68,68,68	0
53	MG	2A	3047	1/1	0.83	0.18	75,75,75,75	0
53	MG	1A	3461	1/1	0.83	0.39	87,87,87,87	0
53	MG	2a	1701	1/1	0.83	0.14	74,74,74,74	0
53	MG	2A	3154	1/1	0.83	0.13	108,108,108,108	0
53	MG	1A	3366	1/1	0.83	0.12	84,84,84,84	0
53	MG	1N	203	1/1	0.83	0.13	56,56,56,56	0
53	MG	1A	3302	1/1	0.83	0.16	63,63,63,63	0
53	MG	2e	201	1/1	0.83	0.18	79,79,79,79	0
53	MG	2A	3389	1/1	0.83	0.42	75,75,75,75	0
53	MG	2A	3161	1/1	0.83	0.16	97,97,97,97	0
53	MG	2A	3063	1/1	0.83	0.10	86,86,86,86	0
53	MG	2r	102	1/1	0.83	0.09	104,104,104,104	0
53	MG	2A	3277	1/1	0.83	0.22	82,82,82,82	0
53	MG	1a	1755	1/1	0.83	0.11	87,87,87,87	0
53	MG	2A	3411	1/1	0.83	0.14	71,71,71,71	0
56	FSD	2A	3553	44/44	0.83	0.13	61,91,113,126	0
53	MG	1a	1724	1/1	0.84	0.13	63,63,63,63	0
53	MG	1E	306	1/1	0.84	0.16	78,78,78,78	0
53	MG	1F	302	1/1	0.84	0.20	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3235	1/1	0.84	0.11	51,51,51,51	0
53	MG	2a	1775	1/1	0.84	0.37	90,90,90,90	0
53	MG	2A	3228	1/1	0.84	0.11	59,59,59,59	0
53	MG	1A	3325	1/1	0.84	0.14	92,92,92,92	0
53	MG	1A	3548	1/1	0.84	0.30	118,118,118,118	0
53	MG	2A	3068	1/1	0.84	0.12	68,68,68,68	0
53	MG	1A	3387	1/1	0.84	0.14	64,64,64,64	0
53	MG	2A	3519	1/1	0.84	0.10	87,87,87,87	0
53	MG	1A	3756	1/1	0.84	0.14	56,56,56,56	0
53	MG	1T	8003	1/1	0.84	0.13	89,89,89,89	0
53	MG	2A	3528	1/1	0.84	0.26	85,85,85,85	0
53	MG	2A	3141	1/1	0.84	0.09	72,72,72,72	0
53	MG	10	104	1/1	0.84	0.10	70,70,70,70	0
53	MG	1A	3565	1/1	0.84	0.13	105,105,105,105	0
53	MG	2A	3265	1/1	0.84	0.28	72,72,72,72	0
53	MG	1A	3509	1/1	0.84	0.20	85,85,85,85	0
53	MG	2A	3415	1/1	0.84	0.11	81,81,81,81	0
53	MG	1A	3431	1/1	0.84	0.16	68,68,68,68	0
53	MG	2a	1730	1/1	0.84	0.15	87,87,87,87	0
53	MG	2A	3151	1/1	0.84	0.10	83,83,83,83	0
53	MG	1A	3293	1/1	0.84	0.16	83,83,83,83	0
53	MG	1A	3069	1/1	0.84	0.15	63,63,63,63	0
53	MG	2A	3279	1/1	0.84	0.10	92,92,92,92	0
53	MG	1A	3166	1/1	0.84	0.11	154,154,154,154	0
53	MG	1A	3455	1/1	0.84	0.14	94,94,94,94	0
53	MG	1a	1830	1/1	0.84	0.15	115,115,115,115	0
53	MG	1A	3227	1/1	0.84	0.13	41,41,41,41	0
53	MG	2A	3449	1/1	0.84	0.21	72,72,72,72	0
53	MG	2A	3097	1/1	0.84	0.16	53,53,53,53	0
53	MG	2A	3455	1/1	0.84	0.34	88,88,88,88	0
53	MG	1A	3825	1/1	0.84	0.13	55,55,55,55	0
53	MG	1B	211	1/1	0.84	0.14	68,68,68,68	0
53	MG	1A	3282	1/1	0.84	0.12	52,52,52,52	0
53	MG	1B	222	1/1	0.84	0.09	69,69,69,69	0
53	MG	2A	3039	1/1	0.84	0.09	59,59,59,59	0
53	MG	2A	3185	1/1	0.84	0.16	60,60,60,60	0
53	MG	1B	224	1/1	0.84	0.23	82,82,82,82	0
53	MG	1A	3608	1/1	0.84	0.15	70,70,70,70	0
53	MG	2A	3196	1/1	0.84	0.10	85,85,85,85	0
53	MG	1a	1776	1/1	0.84	0.47	88,88,88,88	0
53	MG	2a	1765	1/1	0.84	0.09	95,95,95,95	0
55	MPD	1A	3800	8/8	0.84	0.26	67,80,94,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3079	1/1	0.84	0.09	41,41,41,41	0
55	MPD	2A	3552	8/8	0.84	0.25	72,112,120,128	0
53	MG	1a	1721	1/1	0.84	0.21	114,114,114,114	0
53	MG	2A	3357	1/1	0.84	0.25	107,107,107,107	0
53	MG	2a	1749	1/1	0.85	0.13	75,75,75,75	0
53	MG	2a	1750	1/1	0.85	0.11	119,119,119,119	0
53	MG	2A	3544	1/1	0.85	0.12	59,59,59,59	0
53	MG	1a	1897	1/1	0.85	0.27	88,88,88,88	0
53	MG	1A	3630	1/1	0.85	0.33	57,57,57,57	0
53	MG	2a	1755	1/1	0.85	0.19	120,120,120,120	0
53	MG	2A	3378	1/1	0.85	0.08	95,95,95,95	0
53	MG	1A	3632	1/1	0.85	0.20	44,44,44,44	0
53	MG	1A	3308	1/1	0.85	0.16	80,80,80,80	0
53	MG	2A	3388	1/1	0.85	0.17	63,63,63,63	0
53	MG	1A	3635	1/1	0.85	0.23	45,45,45,45	0
53	MG	2A	3396	1/1	0.85	0.12	58,58,58,58	0
53	MG	1A	3549	1/1	0.85	0.42	65,65,65,65	0
53	MG	1A	3426	1/1	0.85	0.15	69,69,69,69	0
53	MG	1A	3837	1/1	0.85	0.25	74,74,74,74	0
53	MG	1A	3182	1/1	0.85	0.15	74,74,74,74	0
53	MG	1A	3566	1/1	0.85	0.14	62,62,62,62	0
53	MG	1A	3370	1/1	0.85	0.11	30,30,30,30	0
53	MG	1A	3021	1/1	0.85	0.24	75,75,75,75	0
53	MG	2A	3234	1/1	0.85	0.18	79,79,79,79	0
53	MG	1a	1736	1/1	0.85	0.13	87,87,87,87	0
53	MG	1a	1833	1/1	0.85	0.19	67,67,67,67	0
53	MG	2A	3243	1/1	0.85	0.21	95,95,95,95	0
53	MG	1D	304	1/1	0.85	0.13	81,81,81,81	0
53	MG	1a	1741	1/1	0.85	0.18	79,79,79,79	0
53	MG	2A	3004	1/1	0.85	0.19	72,72,72,72	0
53	MG	1A	3512	1/1	0.85	0.36	58,58,58,58	0
53	MG	1A	3682	1/1	0.85	0.20	72,72,72,72	0
53	MG	1D	312	1/1	0.85	0.21	57,57,57,57	0
53	MG	1A	3102	1/1	0.85	0.19	72,72,72,72	0
53	MG	2a	1796	1/1	0.85	0.25	93,93,93,93	0
53	MG	2A	3458	1/1	0.85	0.16	73,73,73,73	0
53	MG	1A	3580	1/1	0.85	0.11	60,60,60,60	0
53	MG	1a	1752	1/1	0.85	0.19	118,118,118,118	0
53	MG	2A	3020	1/1	0.85	0.11	77,77,77,77	0
53	MG	2A	3023	1/1	0.85	0.13	73,73,73,73	0
53	MG	1A	3699	1/1	0.85	0.13	71,71,71,71	0
53	MG	1A	3708	1/1	0.85	0.18	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3710	1/1	0.85	0.10	68,68,68,68	0
53	MG	1A	3582	1/1	0.85	0.11	71,71,71,71	0
53	MG	2A	3288	1/1	0.85	0.23	83,83,83,83	0
53	MG	1A	3006	1/1	0.85	0.15	59,59,59,59	0
53	MG	1a	1759	1/1	0.85	0.17	73,73,73,73	0
53	MG	1a	1767	1/1	0.85	0.17	99,99,99,99	0
53	MG	1A	3726	1/1	0.85	0.11	82,82,82,82	0
53	MG	1A	3596	1/1	0.85	0.22	45,45,45,45	0
53	MG	1A	3169	1/1	0.85	0.22	88,88,88,88	0
53	MG	1A	3003	1/1	0.85	0.24	50,50,50,50	0
53	MG	1A	3736	1/1	0.85	0.14	53,53,53,53	0
53	MG	1a	1872	1/1	0.85	0.09	78,78,78,78	0
53	MG	1A	3343	1/1	0.85	0.20	53,53,53,53	0
53	MG	1A	3746	1/1	0.85	0.15	118,118,118,118	0
53	MG	1A	3747	1/1	0.85	0.10	96,96,96,96	0
53	MG	2A	3516	1/1	0.85	0.27	78,78,78,78	0
53	MG	1A	3535	1/1	0.85	0.20	74,74,74,74	0
53	MG	2a	1734	1/1	0.85	0.10	78,78,78,78	0
53	MG	1A	3241	1/1	0.85	0.08	73,73,73,73	0
53	MG	2f	3002	1/1	0.85	0.21	74,74,74,74	0
53	MG	2A	3522	1/1	0.85	0.35	110,110,110,110	0
53	MG	1a	1791	1/1	0.85	0.20	72,72,72,72	0
53	MG	1A	3761	1/1	0.85	0.17	52,52,52,52	0
53	MG	1A	3768	1/1	0.85	0.07	96,96,96,96	0
53	MG	2A	3533	1/1	0.85	0.20	55,55,55,55	0
53	MG	1A	3615	1/1	0.85	0.17	69,69,69,69	0
55	MPD	2A	3551	8/8	0.85	0.23	57,89,97,104	0
53	MG	1a	1892	1/1	0.85	0.12	91,91,91,91	0
53	MG	1A	3089	1/1	0.85	0.14	45,45,45,45	0
53	MG	1A	3424	1/1	0.85	0.24	69,69,69,69	0
53	MG	1A	3427	1/1	0.86	0.34	64,64,64,64	0
53	MG	1Z	8002	1/1	0.86	0.17	55,55,55,55	0
53	MG	2a	1731	1/1	0.86	0.10	92,92,92,92	0
53	MG	2A	3087	1/1	0.86	0.19	90,90,90,90	0
53	MG	2A	3471	1/1	0.86	0.13	51,51,51,51	0
53	MG	1a	1777	1/1	0.86	0.22	164,164,164,164	0
53	MG	1a	1778	1/1	0.86	0.17	68,68,68,68	0
53	MG	1A	3054	1/1	0.86	0.13	75,75,75,75	0
53	MG	2A	3255	1/1	0.86	0.20	87,87,87,87	0
53	MG	2A	3481	1/1	0.86	0.13	99,99,99,99	0
53	MG	1A	3284	1/1	0.86	0.12	66,66,66,66	0
53	MG	1A	3538	1/1	0.86	0.36	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3347	1/1	0.86	0.14	69,69,69,69	0
53	MG	1a	1702	1/1	0.86	0.16	81,81,81,81	0
53	MG	1a	1792	1/1	0.86	0.16	71,71,71,71	0
53	MG	1a	1794	1/1	0.86	0.13	73,73,73,73	0
53	MG	1A	3753	1/1	0.86	0.18	63,63,63,63	0
53	MG	1a	1704	1/1	0.86	0.17	193,193,193,193	0
53	MG	1A	3123	1/1	0.86	0.12	68,68,68,68	0
53	MG	2a	1752	1/1	0.86	0.26	127,127,127,127	0
53	MG	1A	3759	1/1	0.86	0.12	79,79,79,79	0
53	MG	1a	1804	1/1	0.86	0.14	85,85,85,85	0
53	MG	1A	3026	1/1	0.86	0.13	71,71,71,71	0
53	MG	1A	3764	1/1	0.86	0.17	71,71,71,71	0
53	MG	1A	3546	1/1	0.86	0.13	43,43,43,43	0
53	MG	1A	3015	1/1	0.86	0.25	39,39,39,39	0
53	MG	1A	3230	1/1	0.86	0.13	28,28,28,28	0
53	MG	1A	3562	1/1	0.86	0.17	65,65,65,65	0
53	MG	1A	3371	1/1	0.86	0.19	70,70,70,70	0
53	MG	2A	3311	1/1	0.86	0.24	63,63,63,63	0
53	MG	2A	3124	1/1	0.86	0.24	69,69,69,69	0
53	MG	2A	3003	1/1	0.86	0.15	90,90,90,90	0
53	MG	2A	3321	1/1	0.86	0.18	67,67,67,67	0
53	MG	1A	3783	1/1	0.86	0.17	65,65,65,65	0
53	MG	1A	3796	1/1	0.86	0.16	50,50,50,50	0
53	MG	2A	3133	1/1	0.86	0.17	84,84,84,84	0
53	MG	2a	1773	1/1	0.86	0.12	141,141,141,141	0
53	MG	1A	3232	1/1	0.86	0.09	63,63,63,63	0
53	MG	1a	1722	1/1	0.86	0.19	114,114,114,114	0
53	MG	1A	3663	1/1	0.86	0.20	54,54,54,54	0
53	MG	1A	3667	1/1	0.86	0.16	40,40,40,40	0
53	MG	2a	1782	1/1	0.86	0.09	78,78,78,78	0
53	MG	1A	3816	1/1	0.86	0.10	31,31,31,31	0
53	MG	2A	3017	1/1	0.86	0.27	69,69,69,69	0
53	MG	1A	3820	1/1	0.86	0.15	39,39,39,39	0
53	MG	1A	3048	1/1	0.86	0.09	82,82,82,82	0
53	MG	1A	3032	1/1	0.86	0.19	65,65,65,65	0
53	MG	1A	3826	1/1	0.86	0.15	52,52,52,52	0
53	MG	1A	3070	1/1	0.86	0.21	45,45,45,45	0
53	MG	2A	3370	1/1	0.86	0.21	63,63,63,63	0
53	MG	2A	3159	1/1	0.86	0.14	84,84,84,84	0
53	MG	1A	3840	1/1	0.86	0.47	41,41,41,41	0
53	MG	1a	1738	1/1	0.86	0.10	177,177,177,177	0
53	MG	2a	1805	1/1	0.86	0.17	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2O	201	1/1	0.86	0.12	66,66,66,66	0
53	MG	1A	3496	1/1	0.86	0.15	69,69,69,69	0
53	MG	2P	201	1/1	0.86	0.17	81,81,81,81	0
53	MG	1A	3072	1/1	0.86	0.25	69,69,69,69	0
53	MG	2A	3168	1/1	0.86	0.12	71,71,71,71	0
53	MG	1A	3239	1/1	0.86	0.18	55,55,55,55	0
53	MG	1A	3204	1/1	0.86	0.20	99,99,99,99	0
53	MG	1a	1853	1/1	0.86	0.11	86,86,86,86	0
53	MG	2A	3401	1/1	0.86	0.18	61,61,61,61	0
53	MG	1A	3707	1/1	0.86	0.37	75,75,75,75	0
53	MG	1A	3588	1/1	0.86	0.10	77,77,77,77	0
53	MG	2A	3184	1/1	0.86	0.12	67,67,67,67	0
53	MG	1a	1856	1/1	0.86	0.10	109,109,109,109	0
53	MG	2A	3414	1/1	0.86	0.10	116,116,116,116	0
53	MG	1A	3253	1/1	0.86	0.20	67,67,67,67	0
53	MG	1A	3421	1/1	0.86	0.13	74,74,74,74	0
53	MG	1D	315	1/1	0.86	0.33	63,63,63,63	0
53	MG	1A	3270	1/1	0.86	0.13	50,50,50,50	0
53	MG	2A	3429	1/1	0.86	0.27	78,78,78,78	0
53	MG	1a	1862	1/1	0.86	0.24	87,87,87,87	0
53	MG	2A	3432	1/1	0.86	0.09	80,80,80,80	0
53	MG	1A	3724	1/1	0.86	0.16	44,44,44,44	0
53	MG	1A	3052	1/1	0.86	0.17	61,61,61,61	0
53	MG	1F	309	1/1	0.86	0.09	92,92,92,92	0
53	MG	1A	3336	1/1	0.86	0.16	44,44,44,44	0
53	MG	2A	3215	1/1	0.86	0.17	59,59,59,59	0
53	MG	2A	3448	1/1	0.86	0.08	120,120,120,120	0
53	MG	1A	3605	1/1	0.86	0.13	86,86,86,86	0
53	MG	1A	3607	1/1	0.86	0.21	71,71,71,71	0
53	MG	1Q	202	1/1	0.86	0.29	80,80,80,80	0
53	MG	2A	3456	1/1	0.86	0.25	89,89,89,89	0
53	MG	1T	8001	1/1	0.86	0.10	95,95,95,95	0
53	MG	2A	3459	1/1	0.86	0.34	92,92,92,92	0
53	MG	1A	3735	1/1	0.86	0.18	57,57,57,57	0
53	MG	1A	3295	1/1	0.87	0.13	64,64,64,64	0
53	MG	1A	3627	1/1	0.87	0.18	89,89,89,89	0
53	MG	1a	1796	1/1	0.87	0.12	119,119,119,119	0
53	MG	1A	3411	1/1	0.87	0.10	68,68,68,68	0
53	MG	2A	3384	1/1	0.87	0.12	97,97,97,97	0
53	MG	1A	3155	1/1	0.87	0.14	67,67,67,67	0
53	MG	1A	3162	1/1	0.87	0.19	55,55,55,55	0
53	MG	1A	3030	1/1	0.87	0.14	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1781	1/1	0.87	0.14	85,85,85,85	0
53	MG	2A	3262	1/1	0.87	0.13	89,89,89,89	0
53	MG	2A	3264	1/1	0.87	0.41	72,72,72,72	0
53	MG	1A	3361	1/1	0.87	0.09	59,59,59,59	0
53	MG	2A	3078	1/1	0.87	0.18	61,61,61,61	0
53	MG	1A	3363	1/1	0.87	0.19	67,67,67,67	0
53	MG	1A	3518	1/1	0.87	0.12	92,92,92,92	0
53	MG	1A	3644	1/1	0.87	0.31	66,66,66,66	0
53	MG	1A	3125	1/1	0.87	0.21	65,65,65,65	0
53	MG	1a	1869	1/1	0.87	0.14	106,106,106,106	0
53	MG	1A	3127	1/1	0.87	0.09	69,69,69,69	0
53	MG	2A	3011	1/1	0.87	0.20	63,63,63,63	0
53	MG	1A	3749	1/1	0.87	0.17	57,57,57,57	0
53	MG	2A	3427	1/1	0.87	0.19	97,97,97,97	0
53	MG	1A	3662	1/1	0.87	0.19	72,72,72,72	0
53	MG	2a	1810	1/1	0.87	0.16	58,58,58,58	0
53	MG	1A	3255	1/1	0.87	0.19	34,34,34,34	0
53	MG	1A	3664	1/1	0.87	0.11	62,62,62,62	0
53	MG	1A	3666	1/1	0.87	0.20	91,91,91,91	0
53	MG	1a	1828	1/1	0.87	0.49	123,123,123,123	0
53	MG	2A	3300	1/1	0.87	0.26	51,51,51,51	0
53	MG	2B	201	1/1	0.87	0.13	81,81,81,81	0
53	MG	2A	3304	1/1	0.87	0.28	78,78,78,78	0
53	MG	1A	3128	1/1	0.87	0.31	87,87,87,87	0
53	MG	1A	3114	1/1	0.87	0.15	76,76,76,76	0
53	MG	1A	3392	1/1	0.87	0.12	56,56,56,56	0
53	MG	1A	3175	1/1	0.87	0.20	86,86,86,86	0
53	MG	2A	3031	1/1	0.87	0.08	82,82,82,82	0
53	MG	2A	3032	1/1	0.87	0.14	69,69,69,69	0
53	MG	1a	1835	1/1	0.87	0.13	131,131,131,131	0
53	MG	1A	3100	1/1	0.87	0.10	101,101,101,101	0
53	MG	1A	3463	1/1	0.87	0.17	58,58,58,58	0
53	MG	1A	3606	1/1	0.87	0.18	60,60,60,60	0
53	MG	2A	3343	1/1	0.87	0.15	80,80,80,80	0
53	MG	2A	3044	1/1	0.87	0.12	79,79,79,79	0
53	MG	2A	3213	1/1	0.87	0.25	71,71,71,71	0
53	MG	2T	3003	1/1	0.87	0.15	78,78,78,78	0
53	MG	1a	1779	1/1	0.87	0.12	100,100,100,100	0
53	MG	2a	1756	1/1	0.87	0.10	92,92,92,92	0
53	MG	1Q	201	1/1	0.87	0.27	51,51,51,51	0
53	MG	1A	3031	1/1	0.87	0.17	60,60,60,60	0
53	MG	1R	203	1/1	0.87	0.14	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3485	1/1	0.87	0.19	80,80,80,80	0
53	MG	1A	3187	1/1	0.87	0.15	65,65,65,65	0
53	MG	21	101	1/1	0.87	0.13	70,70,70,70	0
53	MG	1A	3109	1/1	0.87	0.13	50,50,50,50	0
53	MG	28	8004	1/1	0.87	0.08	63,63,63,63	0
53	MG	2A	3136	1/1	0.87	0.09	75,75,75,75	0
53	MG	2A	3488	1/1	0.87	0.10	56,56,56,56	0
53	MG	1a	1734	1/1	0.88	0.10	86,86,86,86	0
53	MG	2A	3490	1/1	0.88	0.23	62,62,62,62	0
53	MG	1A	3543	1/1	0.88	0.25	56,56,56,56	0
53	MG	1F	307	1/1	0.88	0.18	87,87,87,87	0
53	MG	1A	3033	1/1	0.88	0.10	68,68,68,68	0
53	MG	1A	3687	1/1	0.88	0.22	73,73,73,73	0
53	MG	2a	1740	1/1	0.88	0.14	85,85,85,85	0
53	MG	2A	3325	1/1	0.88	0.15	69,69,69,69	0
53	MG	1A	3770	1/1	0.88	0.10	85,85,85,85	0
53	MG	2A	3334	1/1	0.88	0.15	64,64,64,64	0
53	MG	2A	3504	1/1	0.88	0.11	58,58,58,58	0
53	MG	2A	3072	1/1	0.88	0.15	72,72,72,72	0
53	MG	1a	1742	1/1	0.88	0.10	117,117,117,117	0
53	MG	2A	3180	1/1	0.88	0.17	60,60,60,60	0
53	MG	1A	3273	1/1	0.88	0.19	62,62,62,62	0
53	MG	1A	3778	1/1	0.88	0.41	82,82,82,82	0
53	MG	2A	3350	1/1	0.88	0.19	85,85,85,85	0
53	MG	1A	3779	1/1	0.88	0.13	71,71,71,71	0
53	MG	2A	3187	1/1	0.88	0.09	69,69,69,69	0
53	MG	1a	1748	1/1	0.88	0.23	107,107,107,107	0
53	MG	2A	3363	1/1	0.88	0.15	126,126,126,126	0
53	MG	1A	3044	1/1	0.88	0.33	88,88,88,88	0
53	MG	1A	3310	1/1	0.88	0.16	86,86,86,86	0
53	MG	1A	3782	1/1	0.88	0.17	66,66,66,66	0
53	MG	1h	3001	1/1	0.88	0.10	74,74,74,74	0
53	MG	1A	3703	1/1	0.88	0.19	61,61,61,61	0
53	MG	1o	3001	1/1	0.88	0.12	51,51,51,51	0
53	MG	1V	202	1/1	0.88	0.22	77,77,77,77	0
53	MG	2A	3208	1/1	0.88	0.10	48,48,48,48	0
53	MG	1A	3793	1/1	0.88	0.24	60,60,60,60	0
53	MG	2A	3095	1/1	0.88	0.19	91,91,91,91	0
53	MG	2A	3386	1/1	0.88	0.13	59,59,59,59	0
53	MG	10	103	1/1	0.88	0.11	84,84,84,84	0
53	MG	1A	3550	1/1	0.88	0.16	49,49,49,49	0
53	MG	2A	3224	1/1	0.88	0.12	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3392	1/1	0.88	0.25	66,66,66,66	0
53	MG	1A	3805	1/1	0.88	0.10	80,80,80,80	0
53	MG	2A	3398	1/1	0.88	0.25	89,89,89,89	0
53	MG	2A	3229	1/1	0.88	0.17	65,65,65,65	0
53	MG	1a	1760	1/1	0.88	0.13	69,69,69,69	0
53	MG	1a	1761	1/1	0.88	0.17	103,103,103,103	0
53	MG	1A	3806	1/1	0.88	0.13	49,49,49,49	0
53	MG	1A	3557	1/1	0.88	0.14	64,64,64,64	0
53	MG	2a	1787	1/1	0.88	0.15	90,90,90,90	0
53	MG	2a	1789	1/1	0.88	0.14	79,79,79,79	0
53	MG	2A	3240	1/1	0.88	0.14	60,60,60,60	0
53	MG	1A	3280	1/1	0.88	0.30	53,53,53,53	0
53	MG	2P	202	1/1	0.88	0.16	85,85,85,85	0
53	MG	1A	3501	1/1	0.88	0.20	67,67,67,67	0
53	MG	2A	3014	1/1	0.88	0.16	88,88,88,88	0
53	MG	2A	3422	1/1	0.88	0.17	73,73,73,73	0
53	MG	2a	1799	1/1	0.88	0.31	69,69,69,69	0
53	MG	1A	3153	1/1	0.88	0.15	107,107,107,107	0
53	MG	2A	3250	1/1	0.88	0.11	104,104,104,104	0
53	MG	2A	3426	1/1	0.88	0.15	86,86,86,86	0
53	MG	1A	3721	1/1	0.88	0.14	84,84,84,84	0
53	MG	1A	3376	1/1	0.88	0.11	70,70,70,70	0
53	MG	2A	3256	1/1	0.88	0.15	58,58,58,58	0
53	MG	25	101	1/1	0.88	0.19	99,99,99,99	0
53	MG	2a	1813	1/1	0.88	0.15	97,97,97,97	0
53	MG	2A	3257	1/1	0.88	0.13	77,77,77,77	0
53	MG	1A	3067	1/1	0.88	0.25	71,71,71,71	0
53	MG	1A	3638	1/1	0.88	0.16	65,65,65,65	0
53	MG	1A	3156	1/1	0.88	0.26	76,76,76,76	0
53	MG	2A	3263	1/1	0.88	0.15	72,72,72,72	0
53	MG	1A	3436	1/1	0.88	0.18	76,76,76,76	0
53	MG	2A	3447	1/1	0.88	0.11	81,81,81,81	0
53	MG	1B	210	1/1	0.88	0.24	49,49,49,49	0
53	MG	1A	3095	1/1	0.88	0.15	53,53,53,53	0
53	MG	1A	3443	1/1	0.88	0.29	90,90,90,90	0
53	MG	2A	3451	1/1	0.88	0.13	64,64,64,64	0
53	MG	1B	221	1/1	0.88	0.23	80,80,80,80	0
53	MG	1A	3138	1/1	0.88	0.17	68,68,68,68	0
53	MG	1A	3339	1/1	0.88	0.14	70,70,70,70	0
53	MG	1A	3245	1/1	0.88	0.15	90,90,90,90	0
53	MG	1A	3111	1/1	0.88	0.16	81,81,81,81	0
53	MG	1A	3665	1/1	0.88	0.21	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3200	1/1	0.88	0.16	57,57,57,57	0
53	MG	2A	3465	1/1	0.88	0.10	74,74,74,74	0
53	MG	1D	314	1/1	0.88	0.11	72,72,72,72	0
53	MG	2A	3053	1/1	0.88	0.10	98,98,98,98	0
53	MG	1A	3465	1/1	0.88	0.10	89,89,89,89	0
53	MG	2A	3292	1/1	0.88	0.14	78,78,78,78	0
53	MG	2a	1726	1/1	0.88	0.12	188,188,188,188	0
53	MG	2A	3153	1/1	0.88	0.12	71,71,71,71	0
53	MG	2A	3056	1/1	0.88	0.23	92,92,92,92	0
53	MG	1A	3265	1/1	0.88	0.17	41,41,41,41	0
53	MG	1a	1807	1/1	0.88	0.28	69,69,69,69	0
53	MG	1a	1731	1/1	0.88	0.17	78,78,78,78	0
53	MG	1A	3482	1/1	0.88	0.14	81,81,81,81	0
53	MG	2A	3487	1/1	0.88	0.29	60,60,60,60	0
53	MG	1A	3828	1/1	0.89	0.12	67,67,67,67	0
53	MG	1A	3832	1/1	0.89	0.19	41,41,41,41	0
53	MG	1A	3834	1/1	0.89	0.11	57,57,57,57	0
53	MG	1A	3154	1/1	0.89	0.15	76,76,76,76	0
53	MG	1A	3705	1/1	0.89	0.21	49,49,49,49	0
53	MG	1B	204	1/1	0.89	0.10	68,68,68,68	0
53	MG	1A	3042	1/1	0.89	0.45	87,87,87,87	0
53	MG	1A	3412	1/1	0.89	0.18	91,91,91,91	0
53	MG	2A	3130	1/1	0.89	0.09	73,73,73,73	0
53	MG	1B	213	1/1	0.89	0.11	97,97,97,97	0
53	MG	2A	3297	1/1	0.89	0.32	70,70,70,70	0
53	MG	1A	3414	1/1	0.89	0.18	57,57,57,57	0
53	MG	1B	216	1/1	0.89	0.37	80,80,80,80	0
53	MG	1A	3506	1/1	0.89	0.17	81,81,81,81	0
53	MG	1A	3417	1/1	0.89	0.11	96,96,96,96	0
53	MG	2A	3018	1/1	0.89	0.07	139,139,139,139	0
53	MG	1A	3419	1/1	0.89	0.14	38,38,38,38	0
53	MG	1A	3090	1/1	0.89	0.10	66,66,66,66	0
53	MG	2A	3319	1/1	0.89	0.20	99,99,99,99	0
53	MG	1A	3185	1/1	0.89	0.40	61,61,61,61	0
53	MG	1a	1844	1/1	0.89	0.08	86,86,86,86	0
53	MG	2a	1748	1/1	0.89	0.33	81,81,81,81	0
53	MG	1A	3260	1/1	0.89	0.10	50,50,50,50	0
53	MG	1A	3263	1/1	0.89	0.10	47,47,47,47	0
53	MG	2A	3155	1/1	0.89	0.27	104,104,104,104	0
53	MG	2A	3329	1/1	0.89	0.17	65,65,65,65	0
53	MG	1a	1847	1/1	0.89	0.24	90,90,90,90	0
53	MG	1A	3613	1/1	0.89	0.14	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3513	1/1	0.89	0.19	84,84,84,84	0
53	MG	1A	3732	1/1	0.89	0.12	62,62,62,62	0
53	MG	1A	3733	1/1	0.89	0.15	48,48,48,48	0
53	MG	1A	3734	1/1	0.89	0.17	83,83,83,83	0
53	MG	2a	1759	1/1	0.89	0.13	68,68,68,68	0
53	MG	1A	3307	1/1	0.89	0.28	66,66,66,66	0
53	MG	2A	3038	1/1	0.89	0.24	55,55,55,55	0
53	MG	2A	3355	1/1	0.89	0.21	69,69,69,69	0
53	MG	2A	3526	1/1	0.89	0.07	78,78,78,78	0
53	MG	1A	3159	1/1	0.89	0.14	88,88,88,88	0
53	MG	2A	3040	1/1	0.89	0.14	80,80,80,80	0
53	MG	1A	3045	1/1	0.89	0.15	70,70,70,70	0
53	MG	2A	3538	1/1	0.89	0.10	75,75,75,75	0
53	MG	1G	8001	1/1	0.89	0.16	95,95,95,95	0
53	MG	1A	3626	1/1	0.89	0.34	57,57,57,57	0
53	MG	2A	3365	1/1	0.89	0.16	69,69,69,69	0
53	MG	1A	3430	1/1	0.89	0.22	53,53,53,53	0
53	MG	1A	3367	1/1	0.89	0.19	70,70,70,70	0
53	MG	1A	3432	1/1	0.89	0.24	79,79,79,79	0
53	MG	2A	3557	1/1	0.89	0.12	58,58,58,58	0
53	MG	2A	3559	1/1	0.89	0.13	78,78,78,78	0
53	MG	1a	1864	1/1	0.89	0.14	113,113,113,113	0
53	MG	2A	3058	1/1	0.89	0.20	71,71,71,71	0
53	MG	1A	3433	1/1	0.89	0.19	94,94,94,94	0
53	MG	2A	3191	1/1	0.89	0.10	75,75,75,75	0
53	MG	2B	205	1/1	0.89	0.17	62,62,62,62	0
53	MG	2A	3380	1/1	0.89	0.13	65,65,65,65	0
53	MG	2D	302	1/1	0.89	0.13	86,86,86,86	0
53	MG	2D	304	1/1	0.89	0.15	111,111,111,111	0
53	MG	2A	3381	1/1	0.89	0.08	67,67,67,67	0
53	MG	1a	1766	1/1	0.89	0.18	70,70,70,70	0
53	MG	1A	3082	1/1	0.89	0.20	53,53,53,53	0
53	MG	2a	1795	1/1	0.89	0.14	114,114,114,114	0
53	MG	2A	3197	1/1	0.89	0.09	73,73,73,73	0
53	MG	1A	3437	1/1	0.89	0.20	58,58,58,58	0
53	MG	1a	1871	1/1	0.89	0.23	74,74,74,74	0
53	MG	1A	3097	1/1	0.89	0.18	64,64,64,64	0
53	MG	1a	1874	1/1	0.89	0.14	51,51,51,51	0
53	MG	1A	3544	1/1	0.89	0.11	36,36,36,36	0
53	MG	1A	3640	1/1	0.89	0.08	65,65,65,65	0
53	MG	2a	1807	1/1	0.89	0.19	68,68,68,68	0
53	MG	2a	1808	1/1	0.89	0.08	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3439	1/1	0.89	0.11	61,61,61,61	0
53	MG	10	102	1/1	0.89	0.11	48,48,48,48	0
53	MG	1A	3441	1/1	0.89	0.14	63,63,63,63	0
53	MG	1A	3320	1/1	0.89	0.26	73,73,73,73	0
53	MG	1A	3657	1/1	0.89	0.12	63,63,63,63	0
53	MG	13	101	1/1	0.89	0.25	84,84,84,84	0
53	MG	1a	1889	1/1	0.89	0.12	63,63,63,63	0
53	MG	15	102	1/1	0.89	0.08	50,50,50,50	0
53	MG	1A	3384	1/1	0.89	0.40	70,70,70,70	0
53	MG	1A	3661	1/1	0.89	0.11	109,109,109,109	0
53	MG	2A	3423	1/1	0.89	0.14	96,96,96,96	0
53	MG	19	103	1/1	0.89	0.13	86,86,86,86	0
53	MG	1A	3236	1/1	0.89	0.33	61,61,61,61	0
53	MG	1A	3327	1/1	0.89	0.18	84,84,84,84	0
53	MG	1A	3391	1/1	0.89	0.17	77,77,77,77	0
53	MG	1A	3083	1/1	0.89	0.11	58,58,58,58	0
53	MG	2A	3247	1/1	0.89	0.11	72,72,72,72	0
53	MG	1A	3050	1/1	0.89	0.07	59,59,59,59	0
53	MG	1A	3043	1/1	0.89	0.22	70,70,70,70	0
53	MG	2a	1839	1/1	0.89	0.25	73,73,73,73	0
53	MG	1A	3468	1/1	0.89	0.10	87,87,87,87	0
53	MG	1A	3568	1/1	0.89	0.39	44,44,44,44	0
53	MG	2a	1709	1/1	0.89	0.12	124,124,124,124	0
53	MG	1a	1805	1/1	0.89	0.10	86,86,86,86	0
53	MG	1A	3569	1/1	0.89	0.14	69,69,69,69	0
53	MG	1A	3477	1/1	0.89	0.11	57,57,57,57	0
53	MG	1A	3573	1/1	0.89	0.14	67,67,67,67	0
53	MG	2A	3109	1/1	0.89	0.15	89,89,89,89	0
53	MG	2r	101	1/1	0.89	0.30	95,95,95,95	0
53	MG	1A	3332	1/1	0.89	0.15	50,50,50,50	0
53	MG	2A	3112	1/1	0.89	0.14	108,108,108,108	0
54	ARG	1A	3799	12/12	0.89	0.18	85,101,112,114	0
53	MG	1A	3335	1/1	0.89	0.15	45,45,45,45	0
53	MG	1l	3001	1/1	0.89	0.06	78,78,78,78	0
53	MG	1A	3240	1/1	0.89	0.13	101,101,101,101	0
53	MG	2A	3116	1/1	0.89	0.07	68,68,68,68	0
53	MG	2A	3460	1/1	0.89	0.17	128,128,128,128	0
53	MG	1A	3702	1/1	0.89	0.26	83,83,83,83	0
53	MG	1A	3741	1/1	0.90	0.33	84,84,84,84	0
53	MG	1A	3252	1/1	0.90	0.14	48,48,48,48	0
53	MG	2A	3179	1/1	0.90	0.07	59,59,59,59	0
53	MG	2A	3339	1/1	0.90	0.12	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3023	1/1	0.90	0.09	72,72,72,72	0
53	MG	1A	3748	1/1	0.90	0.17	93,93,93,93	0
53	MG	2A	3183	1/1	0.90	0.21	74,74,74,74	0
53	MG	1a	1802	1/1	0.90	0.16	67,67,67,67	0
53	MG	2A	3506	1/1	0.90	0.26	65,65,65,65	0
53	MG	1D	303	1/1	0.90	0.37	79,79,79,79	0
53	MG	2A	3351	1/1	0.90	0.15	88,88,88,88	0
53	MG	2A	3352	1/1	0.90	0.10	86,86,86,86	0
53	MG	2A	3514	1/1	0.90	0.14	66,66,66,66	0
53	MG	2a	1747	1/1	0.90	0.19	88,88,88,88	0
53	MG	2A	3071	1/1	0.90	0.16	70,70,70,70	0
53	MG	2A	3356	1/1	0.90	0.13	75,75,75,75	0
53	MG	1A	3298	1/1	0.90	0.11	73,73,73,73	0
53	MG	2A	3520	1/1	0.90	0.15	81,81,81,81	0
53	MG	1A	3592	1/1	0.90	0.21	74,74,74,74	0
53	MG	1A	3254	1/1	0.90	0.20	55,55,55,55	0
53	MG	1A	3594	1/1	0.90	0.26	80,80,80,80	0
53	MG	1A	3757	1/1	0.90	0.17	87,87,87,87	0
53	MG	1A	3476	1/1	0.90	0.20	62,62,62,62	0
53	MG	2A	3199	1/1	0.90	0.25	65,65,65,65	0
53	MG	1A	3229	1/1	0.90	0.20	66,66,66,66	0
53	MG	2A	3536	1/1	0.90	0.07	90,90,90,90	0
53	MG	1a	1815	1/1	0.90	0.10	78,78,78,78	0
53	MG	1E	309	1/1	0.90	0.11	49,49,49,49	0
53	MG	2A	3371	1/1	0.90	0.24	113,113,113,113	0
53	MG	1A	3341	1/1	0.90	0.15	41,41,41,41	0
53	MG	1A	3542	1/1	0.90	0.15	98,98,98,98	0
53	MG	2A	3546	1/1	0.90	0.27	77,77,77,77	0
53	MG	1A	3098	1/1	0.90	0.16	45,45,45,45	0
53	MG	1A	3193	1/1	0.90	0.17	59,59,59,59	0
53	MG	1A	3487	1/1	0.90	0.10	76,76,76,76	0
53	MG	2A	3558	1/1	0.90	0.21	81,81,81,81	0
53	MG	1A	3683	1/1	0.90	0.35	62,62,62,62	0
53	MG	2a	1772	1/1	0.90	0.28	70,70,70,70	0
53	MG	1H	201	1/1	0.90	0.11	76,76,76,76	0
53	MG	1A	3686	1/1	0.90	0.33	96,96,96,96	0
53	MG	1A	3004	1/1	0.90	0.18	84,84,84,84	0
53	MG	2A	3101	1/1	0.90	0.11	93,93,93,93	0
53	MG	1P	203	1/1	0.90	0.19	59,59,59,59	0
53	MG	2B	206	1/1	0.90	0.15	71,71,71,71	0
53	MG	1a	1747	1/1	0.90	0.11	64,64,64,64	0
53	MG	1a	1836	1/1	0.90	0.06	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1784	1/1	0.90	0.13	68,68,68,68	0
53	MG	1A	3435	1/1	0.90	0.14	66,66,66,66	0
53	MG	2A	3107	1/1	0.90	0.10	99,99,99,99	0
53	MG	2A	3108	1/1	0.90	0.12	81,81,81,81	0
53	MG	1A	3495	1/1	0.90	0.25	63,63,63,63	0
53	MG	2A	3246	1/1	0.90	0.11	65,65,65,65	0
53	MG	2a	1791	1/1	0.90	0.11	114,114,114,114	0
53	MG	1A	3113	1/1	0.90	0.09	59,59,59,59	0
53	MG	1A	3786	1/1	0.90	0.27	63,63,63,63	0
53	MG	2F	302	1/1	0.90	0.15	75,75,75,75	0
53	MG	2A	3249	1/1	0.90	0.14	79,79,79,79	0
53	MG	1A	3619	1/1	0.90	0.34	82,82,82,82	0
53	MG	1A	3795	1/1	0.90	0.19	80,80,80,80	0
53	MG	2A	3421	1/1	0.90	0.11	112,112,112,112	0
53	MG	1U	201	1/1	0.90	0.14	58,58,58,58	0
53	MG	1A	3620	1/1	0.90	0.15	75,75,75,75	0
53	MG	1V	203	1/1	0.90	0.10	46,46,46,46	0
53	MG	1A	3497	1/1	0.90	0.27	101,101,101,101	0
53	MG	2A	3260	1/1	0.90	0.23	62,62,62,62	0
53	MG	1a	1849	1/1	0.90	0.09	94,94,94,94	0
53	MG	1A	3623	1/1	0.90	0.16	97,97,97,97	0
53	MG	2A	3019	1/1	0.90	0.15	77,77,77,77	0
53	MG	1A	3499	1/1	0.90	0.20	66,66,66,66	0
53	MG	1A	3027	1/1	0.90	0.17	54,54,54,54	0
53	MG	1A	3628	1/1	0.90	0.21	59,59,59,59	0
53	MG	11	103	1/1	0.90	0.17	61,61,61,61	0
53	MG	1A	3116	1/1	0.90	0.14	85,85,85,85	0
53	MG	1A	3716	1/1	0.90	0.16	83,83,83,83	0
53	MG	1A	3103	1/1	0.90	0.24	88,88,88,88	0
53	MG	1A	3133	1/1	0.90	0.20	65,65,65,65	0
53	MG	1A	3725	1/1	0.90	0.09	63,63,63,63	0
53	MG	1A	3415	1/1	0.90	0.10	91,91,91,91	0
53	MG	2a	1827	1/1	0.90	0.14	68,68,68,68	0
53	MG	1A	3184	1/1	0.90	0.15	41,41,41,41	0
53	MG	1A	3636	1/1	0.90	0.10	48,48,48,48	0
53	MG	1A	3570	1/1	0.90	0.14	40,40,40,40	0
53	MG	1A	3121	1/1	0.90	0.20	65,65,65,65	0
53	MG	1a	1783	1/1	0.90	0.63	63,63,63,63	0
53	MG	1B	201	1/1	0.90	0.11	48,48,48,48	0
53	MG	2A	3294	1/1	0.90	0.26	103,103,103,103	0
53	MG	2a	1838	1/1	0.90	0.14	69,69,69,69	0
53	MG	2A	3295	1/1	0.90	0.17	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1a	1785	1/1	0.90	0.14	72,72,72,72	0
53	MG	1a	1873	1/1	0.90	0.23	98,98,98,98	0
53	MG	2A	3299	1/1	0.90	0.12	81,81,81,81	0
53	MG	1A	3572	1/1	0.90	0.11	56,56,56,56	0
53	MG	2A	3302	1/1	0.90	0.08	70,70,70,70	0
53	MG	2a	1719	1/1	0.90	0.07	48,48,48,48	0
53	MG	2A	3048	1/1	0.90	0.07	75,75,75,75	0
53	MG	1a	1876	1/1	0.90	0.12	105,105,105,105	0
53	MG	1a	1877	1/1	0.90	0.13	87,87,87,87	0
53	MG	2A	3479	1/1	0.90	0.11	119,119,119,119	0
53	MG	1a	1789	1/1	0.90	0.12	85,85,85,85	0
53	MG	1A	3287	1/1	0.90	0.14	68,68,68,68	0
53	MG	1A	3460	1/1	0.90	0.19	66,66,66,66	0
53	MG	1a	1883	1/1	0.90	0.11	65,65,65,65	0
53	MG	2A	3169	1/1	0.90	0.19	61,61,61,61	0
53	MG	2A	3171	1/1	0.90	0.12	73,73,73,73	0
53	MG	1A	3224	1/1	0.90	0.21	77,77,77,77	0
53	MG	1A	3655	1/1	0.90	0.11	62,62,62,62	0
57	ZN	29	501	1/1	0.90	0.09	136,136,136,136	0
57	ZN	2n	102	1/1	0.90	0.09	205,205,205,205	0
53	MG	2A	3164	1/1	0.91	0.07	126,126,126,126	0
53	MG	2A	3306	1/1	0.91	0.24	77,77,77,77	0
53	MG	2A	3480	1/1	0.91	0.14	61,61,61,61	0
53	MG	2A	3308	1/1	0.91	0.13	92,92,92,92	0
53	MG	1A	3403	1/1	0.91	0.22	55,55,55,55	0
53	MG	2A	3166	1/1	0.91	0.15	73,73,73,73	0
53	MG	1A	3407	1/1	0.91	0.20	78,78,78,78	0
53	MG	2A	3486	1/1	0.91	0.11	73,73,73,73	0
53	MG	1A	3648	1/1	0.91	0.10	63,63,63,63	0
53	MG	1A	3649	1/1	0.91	0.21	49,49,49,49	0
53	MG	2A	3172	1/1	0.91	0.17	45,45,45,45	0
53	MG	1A	3451	1/1	0.91	0.08	62,62,62,62	0
53	MG	1A	3839	1/1	0.91	0.35	72,72,72,72	0
53	MG	2A	3496	1/1	0.91	0.18	77,77,77,77	0
53	MG	1a	1790	1/1	0.91	0.12	65,65,65,65	0
53	MG	1A	3520	1/1	0.91	0.17	47,47,47,47	0
53	MG	1A	3453	1/1	0.91	0.19	66,66,66,66	0
53	MG	2A	3333	1/1	0.91	0.22	72,72,72,72	0
53	MG	2A	3501	1/1	0.91	0.10	60,60,60,60	0
53	MG	1B	203	1/1	0.91	0.16	59,59,59,59	0
53	MG	2A	3337	1/1	0.91	0.10	79,79,79,79	0
53	MG	1A	3105	1/1	0.91	0.20	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3189	1/1	0.91	0.15	50,50,50,50	0
53	MG	1A	3191	1/1	0.91	0.13	62,62,62,62	0
53	MG	1A	3742	1/1	0.91	0.13	53,53,53,53	0
53	MG	2A	3186	1/1	0.91	0.20	105,105,105,105	0
53	MG	1A	3529	1/1	0.91	0.12	50,50,50,50	0
53	MG	2A	3348	1/1	0.91	0.31	114,114,114,114	0
53	MG	2A	3349	1/1	0.91	0.36	77,77,77,77	0
53	MG	1A	3126	1/1	0.91	0.08	57,57,57,57	0
53	MG	1B	220	1/1	0.91	0.18	53,53,53,53	0
53	MG	1A	3010	1/1	0.91	0.34	79,79,79,79	0
53	MG	2A	3081	1/1	0.91	0.17	80,80,80,80	0
53	MG	2A	3524	1/1	0.91	0.12	90,90,90,90	0
53	MG	1A	3266	1/1	0.91	0.14	28,28,28,28	0
53	MG	1A	3751	1/1	0.91	0.16	82,82,82,82	0
53	MG	1A	3234	1/1	0.91	0.18	68,68,68,68	0
53	MG	2A	3359	1/1	0.91	0.10	78,78,78,78	0
53	MG	2A	3534	1/1	0.91	0.23	61,61,61,61	0
53	MG	1A	3471	1/1	0.91	0.10	29,29,29,29	0
53	MG	2A	3201	1/1	0.91	0.25	76,76,76,76	0
53	MG	1A	3755	1/1	0.91	0.14	79,79,79,79	0
53	MG	2A	3204	1/1	0.91	0.21	81,81,81,81	0
53	MG	2A	3540	1/1	0.91	0.41	82,82,82,82	0
53	MG	1A	3074	1/1	0.91	0.29	80,80,80,80	0
53	MG	2A	3206	1/1	0.91	0.12	80,80,80,80	0
53	MG	1a	1728	1/1	0.91	0.15	78,78,78,78	0
53	MG	2A	3092	1/1	0.91	0.12	72,72,72,72	0
53	MG	2A	3547	1/1	0.91	0.14	81,81,81,81	0
53	MG	1A	3676	1/1	0.91	0.11	42,42,42,42	0
53	MG	1A	3129	1/1	0.91	0.18	91,91,91,91	0
53	MG	2A	3214	1/1	0.91	0.32	66,66,66,66	0
53	MG	1A	3681	1/1	0.91	0.09	87,87,87,87	0
53	MG	2A	3217	1/1	0.91	0.11	66,66,66,66	0
53	MG	1E	303	1/1	0.91	0.12	82,82,82,82	0
53	MG	2A	3562	1/1	0.91	0.14	72,72,72,72	0
53	MG	1a	1733	1/1	0.91	0.12	108,108,108,108	0
53	MG	2A	3226	1/1	0.91	0.06	80,80,80,80	0
53	MG	2A	3385	1/1	0.91	0.14	79,79,79,79	0
53	MG	1a	1826	1/1	0.91	0.28	99,99,99,99	0
53	MG	1E	305	1/1	0.91	0.17	32,32,32,32	0
53	MG	1A	3278	1/1	0.91	0.18	64,64,64,64	0
53	MG	1A	3766	1/1	0.91	0.29	47,47,47,47	0
53	MG	1A	3375	1/1	0.91	0.24	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1a	1832	1/1	0.91	0.10	65,65,65,65	0
53	MG	1A	3321	1/1	0.91	0.29	55,55,55,55	0
53	MG	2A	3241	1/1	0.91	0.15	83,83,83,83	0
53	MG	1A	3279	1/1	0.91	0.12	53,53,53,53	0
53	MG	1A	3771	1/1	0.91	0.09	25,25,25,25	0
53	MG	2A	3406	1/1	0.91	0.11	83,83,83,83	0
53	MG	1a	1743	1/1	0.91	0.07	74,74,74,74	0
53	MG	1A	3092	1/1	0.91	0.12	51,51,51,51	0
53	MG	2a	1809	1/1	0.91	0.29	65,65,65,65	0
53	MG	1A	3776	1/1	0.91	0.22	48,48,48,48	0
53	MG	1A	3697	1/1	0.91	0.07	75,75,75,75	0
53	MG	1H	203	1/1	0.91	0.19	77,77,77,77	0
53	MG	1A	3553	1/1	0.91	0.11	86,86,86,86	0
53	MG	1N	202	1/1	0.91	0.16	67,67,67,67	0
53	MG	1A	3180	1/1	0.91	0.21	71,71,71,71	0
53	MG	2T	3002	1/1	0.91	0.08	81,81,81,81	0
53	MG	1A	3700	1/1	0.91	0.20	54,54,54,54	0
53	MG	1A	3209	1/1	0.91	0.14	81,81,81,81	0
53	MG	1A	3132	1/1	0.91	0.07	52,52,52,52	0
53	MG	2A	3123	1/1	0.91	0.13	66,66,66,66	0
53	MG	1Q	203	1/1	0.91	0.12	60,60,60,60	0
53	MG	1a	1850	1/1	0.91	0.10	73,73,73,73	0
53	MG	1R	201	1/1	0.91	0.22	93,93,93,93	0
53	MG	1a	1757	1/1	0.91	0.07	123,123,123,123	0
53	MG	1A	3020	1/1	0.91	0.29	58,58,58,58	0
53	MG	2A	3028	1/1	0.91	0.21	51,51,51,51	0
53	MG	2A	3442	1/1	0.91	0.19	89,89,89,89	0
53	MG	2A	3267	1/1	0.91	0.24	56,56,56,56	0
53	MG	1A	3792	1/1	0.91	0.09	61,61,61,61	0
53	MG	2A	3445	1/1	0.91	0.14	83,83,83,83	0
53	MG	2A	3137	1/1	0.91	0.15	66,66,66,66	0
53	MG	1A	3288	1/1	0.91	0.27	72,72,72,72	0
53	MG	1A	3136	1/1	0.91	0.21	93,93,93,93	0
53	MG	1a	1763	1/1	0.91	0.16	101,101,101,101	0
53	MG	2A	3033	1/1	0.91	0.07	129,129,129,129	0
53	MG	1A	3503	1/1	0.91	0.17	45,45,45,45	0
53	MG	2A	3453	1/1	0.91	0.18	96,96,96,96	0
53	MG	1A	3798	1/1	0.91	0.20	69,69,69,69	0
53	MG	2l	202	1/1	0.91	0.14	73,73,73,73	0
53	MG	2A	3036	1/1	0.91	0.07	76,76,76,76	0
53	MG	1A	3711	1/1	0.91	0.29	69,69,69,69	0
53	MG	1A	3248	1/1	0.91	0.21	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	10	101	1/1	0.91	0.10	54,54,54,54	0
53	MG	1A	3058	1/1	0.91	0.12	57,57,57,57	0
53	MG	1A	3401	1/1	0.91	0.09	54,54,54,54	0
53	MG	1A	3637	1/1	0.91	0.23	74,74,74,74	0
53	MG	2A	3296	1/1	0.91	0.10	82,82,82,82	0
53	MG	1A	3722	1/1	0.91	0.09	89,89,89,89	0
53	MG	1A	3226	1/1	0.91	0.18	68,68,68,68	0
56	FSD	1A	3801	44/44	0.91	0.14	24,64,94,111	0
53	MG	1A	3444	1/1	0.91	0.14	66,66,66,66	0
53	MG	2A	3162	1/1	0.91	0.11	78,78,78,78	0
53	MG	1A	3574	1/1	0.91	0.11	56,56,56,56	0
53	MG	1a	1764	1/1	0.92	0.10	68,68,68,68	0
53	MG	2A	3309	1/1	0.92	0.14	82,82,82,82	0
53	MG	1a	1863	1/1	0.92	0.10	61,61,61,61	0
53	MG	1A	3014	1/1	0.92	0.26	81,81,81,81	0
53	MG	2A	3312	1/1	0.92	0.09	104,104,104,104	0
53	MG	1A	3099	1/1	0.92	0.10	37,37,37,37	0
53	MG	1A	3714	1/1	0.92	0.12	61,61,61,61	0
53	MG	2A	3318	1/1	0.92	0.18	67,67,67,67	0
53	MG	1A	3715	1/1	0.92	0.10	52,52,52,52	0
53	MG	1A	3348	1/1	0.92	0.16	72,72,72,72	0
53	MG	1A	3718	1/1	0.92	0.22	112,112,112,112	0
53	MG	1A	3810	1/1	0.92	0.11	55,55,55,55	0
53	MG	1A	3351	1/1	0.92	0.10	52,52,52,52	0
53	MG	1A	3449	1/1	0.92	0.21	68,68,68,68	0
53	MG	1a	1875	1/1	0.92	0.12	58,58,58,58	0
53	MG	2A	3332	1/1	0.92	0.08	108,108,108,108	0
53	MG	1A	3208	1/1	0.92	0.10	55,55,55,55	0
53	MG	2a	1742	1/1	0.92	0.09	65,65,65,65	0
53	MG	1A	3271	1/1	0.92	0.15	81,81,81,81	0
53	MG	1A	3515	1/1	0.92	0.10	61,61,61,61	0
53	MG	1A	3037	1/1	0.92	0.09	45,45,45,45	0
53	MG	1A	3823	1/1	0.92	0.23	70,70,70,70	0
53	MG	1A	3148	1/1	0.92	0.17	47,47,47,47	0
53	MG	2A	3503	1/1	0.92	0.10	76,76,76,76	0
53	MG	1A	3729	1/1	0.92	0.20	71,71,71,71	0
53	MG	1A	3652	1/1	0.92	0.18	71,71,71,71	0
53	MG	1A	3578	1/1	0.92	0.06	49,49,49,49	0
53	MG	2A	3079	1/1	0.92	0.09	103,103,103,103	0
53	MG	1a	1701	1/1	0.92	0.07	71,71,71,71	0
53	MG	1A	3364	1/1	0.92	0.14	65,65,65,65	0
53	MG	2A	3082	1/1	0.92	0.09	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3420	1/1	0.92	0.11	66,66,66,66	0
53	MG	1a	1793	1/1	0.92	0.11	81,81,81,81	0
53	MG	2A	3202	1/1	0.92	0.11	54,54,54,54	0
53	MG	1A	3585	1/1	0.92	0.13	82,82,82,82	0
53	MG	1A	3586	1/1	0.92	0.09	57,57,57,57	0
53	MG	1A	3522	1/1	0.92	0.11	58,58,58,58	0
53	MG	1B	202	1/1	0.92	0.35	63,63,63,63	0
53	MG	2a	1763	1/1	0.92	0.07	83,83,83,83	0
53	MG	1a	1711	1/1	0.92	0.12	90,90,90,90	0
53	MG	1A	3464	1/1	0.92	0.12	90,90,90,90	0
53	MG	1A	3312	1/1	0.92	0.15	55,55,55,55	0
53	MG	1B	206	1/1	0.92	0.09	75,75,75,75	0
53	MG	1A	3745	1/1	0.92	0.11	88,88,88,88	0
53	MG	2A	3368	1/1	0.92	0.09	75,75,75,75	0
53	MG	1A	3221	1/1	0.92	0.11	32,32,32,32	0
53	MG	1A	3168	1/1	0.92	0.21	88,88,88,88	0
53	MG	1A	3531	1/1	0.92	0.13	61,61,61,61	0
53	MG	2A	3373	1/1	0.92	0.28	95,95,95,95	0
53	MG	1A	3131	1/1	0.92	0.14	89,89,89,89	0
53	MG	1A	3473	1/1	0.92	0.36	62,62,62,62	0
53	MG	1a	1813	1/1	0.92	0.16	74,74,74,74	0
53	MG	1A	3672	1/1	0.92	0.18	35,35,35,35	0
53	MG	1a	1723	1/1	0.92	0.16	79,79,79,79	0
53	MG	1A	3675	1/1	0.92	0.18	35,35,35,35	0
53	MG	1A	3242	1/1	0.92	0.11	74,74,74,74	0
53	MG	2A	3235	1/1	0.92	0.09	54,54,54,54	0
53	MG	1A	3190	1/1	0.92	0.20	85,85,85,85	0
53	MG	1A	3101	1/1	0.92	0.19	54,54,54,54	0
53	MG	1A	3483	1/1	0.92	0.21	47,47,47,47	0
53	MG	1A	3250	1/1	0.92	0.10	74,74,74,74	0
53	MG	1A	3763	1/1	0.92	0.11	69,69,69,69	0
53	MG	2A	3395	1/1	0.92	0.08	84,84,84,84	0
53	MG	2A	3244	1/1	0.92	0.09	109,109,109,109	0
53	MG	1A	3251	1/1	0.92	0.09	45,45,45,45	0
53	MG	2A	3399	1/1	0.92	0.15	74,74,74,74	0
53	MG	2A	3006	1/1	0.92	0.08	73,73,73,73	0
53	MG	2B	209	1/1	0.92	0.15	87,87,87,87	0
53	MG	1a	1829	1/1	0.92	0.11	64,64,64,64	0
53	MG	1A	3765	1/1	0.92	0.13	85,85,85,85	0
53	MG	1E	301	1/1	0.92	0.12	64,64,64,64	0
53	MG	1A	3028	1/1	0.92	0.11	81,81,81,81	0
53	MG	2A	3121	1/1	0.92	0.18	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3410	1/1	0.92	0.09	88,88,88,88	0
53	MG	1A	3693	1/1	0.92	0.09	79,79,79,79	0
53	MG	1A	3489	1/1	0.92	0.08	69,69,69,69	0
53	MG	1A	3194	1/1	0.92	0.07	82,82,82,82	0
53	MG	2G	8001	1/1	0.92	0.12	112,112,112,112	0
53	MG	2A	3416	1/1	0.92	0.09	71,71,71,71	0
53	MG	1a	1739	1/1	0.92	0.11	80,80,80,80	0
53	MG	1F	301	1/1	0.92	0.15	73,73,73,73	0
53	MG	2A	3127	1/1	0.92	0.10	67,67,67,67	0
53	MG	1A	3096	1/1	0.92	0.07	87,87,87,87	0
53	MG	2A	3129	1/1	0.92	0.13	76,76,76,76	0
53	MG	1A	3338	1/1	0.92	0.17	74,74,74,74	0
53	MG	2R	202	1/1	0.92	0.05	62,62,62,62	0
53	MG	2A	3132	1/1	0.92	0.23	78,78,78,78	0
53	MG	2A	3022	1/1	0.92	0.10	59,59,59,59	0
53	MG	1F	305	1/1	0.92	0.06	39,39,39,39	0
53	MG	1a	1842	1/1	0.92	0.13	76,76,76,76	0
53	MG	2A	3274	1/1	0.92	0.18	81,81,81,81	0
53	MG	1F	306	1/1	0.92	0.23	75,75,75,75	0
53	MG	1A	3773	1/1	0.92	0.07	67,67,67,67	0
53	MG	2a	1831	1/1	0.92	0.22	55,55,55,55	0
53	MG	2A	3441	1/1	0.92	0.17	57,57,57,57	0
53	MG	1A	3774	1/1	0.92	0.22	63,63,63,63	0
53	MG	2A	3142	1/1	0.92	0.13	93,93,93,93	0
53	MG	27	101	1/1	0.92	0.30	83,83,83,83	0
53	MG	1A	3555	1/1	0.92	0.18	93,93,93,93	0
53	MG	2A	3146	1/1	0.92	0.19	92,92,92,92	0
53	MG	2A	3285	1/1	0.92	0.08	78,78,78,78	0
53	MG	2A	3147	1/1	0.92	0.30	86,86,86,86	0
53	MG	1A	3777	1/1	0.92	0.18	93,93,93,93	0
53	MG	1A	3701	1/1	0.92	0.10	45,45,45,45	0
53	MG	1A	3231	1/1	0.92	0.20	76,76,76,76	0
53	MG	1A	3560	1/1	0.92	0.17	65,65,65,65	0
53	MG	1A	3091	1/1	0.92	0.09	67,67,67,67	0
53	MG	2A	3454	1/1	0.92	0.16	69,69,69,69	0
53	MG	1A	3498	1/1	0.92	0.10	69,69,69,69	0
53	MG	1P	201	1/1	0.92	0.27	60,60,60,60	0
53	MG	1A	3631	1/1	0.92	0.21	67,67,67,67	0
53	MG	1A	3181	1/1	0.92	0.11	61,61,61,61	0
53	MG	1A	3787	1/1	0.92	0.19	86,86,86,86	0
54	ARG	1B	223	12/12	0.92	0.18	25,48,89,97	0
53	MG	1A	3788	1/1	0.92	0.10	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3790	1/1	0.92	0.09	38,38,38,38	0
53	MG	2A	3043	1/1	0.92	0.15	114,114,114,114	0
53	MG	1R	202	1/1	0.92	0.19	64,64,64,64	0
53	MG	2A	3305	1/1	0.92	0.14	84,84,84,84	0
53	MG	2A	3468	1/1	0.92	0.08	93,93,93,93	0
53	MG	2A	3469	1/1	0.92	0.12	109,109,109,109	0
53	MG	1A	3345	1/1	0.92	0.19	47,47,47,47	0
53	MG	2A	3307	1/1	0.92	0.30	107,107,107,107	0
53	MG	1A	3457	1/1	0.93	0.46	65,65,65,65	0
53	MG	1a	1786	1/1	0.93	0.10	73,73,73,73	0
53	MG	1A	3458	1/1	0.93	0.45	78,78,78,78	0
53	MG	2A	3059	1/1	0.93	0.10	84,84,84,84	0
53	MG	1A	3007	1/1	0.93	0.13	42,42,42,42	0
53	MG	1B	215	1/1	0.93	0.18	45,45,45,45	0
53	MG	1A	3158	1/1	0.93	0.22	70,70,70,70	0
53	MG	1B	217	1/1	0.93	0.09	60,60,60,60	0
53	MG	1A	3527	1/1	0.93	0.12	56,56,56,56	0
53	MG	2A	3412	1/1	0.93	0.09	72,72,72,72	0
53	MG	1A	3405	1/1	0.93	0.14	73,73,73,73	0
53	MG	1A	3530	1/1	0.93	0.23	74,74,74,74	0
53	MG	2A	3549	1/1	0.93	0.12	73,73,73,73	0
53	MG	1A	3012	1/1	0.93	0.10	69,69,69,69	0
53	MG	1A	3533	1/1	0.93	0.32	64,64,64,64	0
53	MG	2A	3418	1/1	0.93	0.16	63,63,63,63	0
53	MG	1A	3688	1/1	0.93	0.27	60,60,60,60	0
53	MG	1a	1799	1/1	0.93	0.12	63,63,63,63	0
53	MG	1A	3211	1/1	0.93	0.16	76,76,76,76	0
53	MG	1A	3536	1/1	0.93	0.14	70,70,70,70	0
53	MG	1a	1803	1/1	0.93	0.11	81,81,81,81	0
53	MG	2A	3564	1/1	0.93	0.22	82,82,82,82	0
53	MG	1A	3610	1/1	0.93	0.13	66,66,66,66	0
53	MG	2B	202	1/1	0.93	0.23	134,134,134,134	0
53	MG	1A	3212	1/1	0.93	0.11	51,51,51,51	0
53	MG	1A	3213	1/1	0.93	0.17	54,54,54,54	0
53	MG	1A	3294	1/1	0.93	0.26	65,65,65,65	0
53	MG	1A	3472	1/1	0.93	0.14	76,76,76,76	0
53	MG	1E	304	1/1	0.93	0.07	60,60,60,60	0
53	MG	2A	3437	1/1	0.93	0.15	86,86,86,86	0
53	MG	2D	303	1/1	0.93	0.15	77,77,77,77	0
53	MG	1A	3214	1/1	0.93	0.15	89,89,89,89	0
53	MG	1A	3160	1/1	0.93	0.56	49,49,49,49	0
53	MG	1A	3161	1/1	0.93	0.15	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3625	1/1	0.93	0.14	67,67,67,67	0
53	MG	2A	3190	1/1	0.93	0.06	74,74,74,74	0
53	MG	1a	1816	1/1	0.93	0.13	125,125,125,125	0
53	MG	2A	3313	1/1	0.93	0.15	91,91,91,91	0
53	MG	1A	3064	1/1	0.93	0.31	57,57,57,57	0
53	MG	1a	1818	1/1	0.93	0.10	80,80,80,80	0
53	MG	2A	3316	1/1	0.93	0.06	74,74,74,74	0
53	MG	2A	3317	1/1	0.93	0.10	105,105,105,105	0
53	MG	1A	3547	1/1	0.93	0.10	58,58,58,58	0
53	MG	2A	3452	1/1	0.93	0.13	79,79,79,79	0
53	MG	1A	3057	1/1	0.93	0.37	73,73,73,73	0
53	MG	1A	3225	1/1	0.93	0.17	44,44,44,44	0
53	MG	2P	203	1/1	0.93	0.12	81,81,81,81	0
53	MG	1a	1824	1/1	0.93	0.17	76,76,76,76	0
53	MG	1A	3258	1/1	0.93	0.20	59,59,59,59	0
53	MG	1A	3051	1/1	0.93	0.11	37,37,37,37	0
53	MG	2a	1797	1/1	0.93	0.15	79,79,79,79	0
53	MG	1A	3088	1/1	0.93	0.09	66,66,66,66	0
53	MG	1A	3633	1/1	0.93	0.12	80,80,80,80	0
53	MG	2V	201	1/1	0.93	0.12	63,63,63,63	0
53	MG	2a	1802	1/1	0.93	0.14	86,86,86,86	0
53	MG	2A	3002	1/1	0.93	0.10	74,74,74,74	0
53	MG	1A	3717	1/1	0.93	0.08	72,72,72,72	0
53	MG	1H	202	1/1	0.93	0.10	61,61,61,61	0
53	MG	1A	3491	1/1	0.93	0.16	72,72,72,72	0
53	MG	1A	3492	1/1	0.93	0.20	69,69,69,69	0
53	MG	1A	3797	1/1	0.93	0.10	60,60,60,60	0
53	MG	1A	3561	1/1	0.93	0.07	68,68,68,68	0
53	MG	1A	3145	1/1	0.93	0.20	66,66,66,66	0
53	MG	1A	3311	1/1	0.93	0.13	65,65,65,65	0
53	MG	28	8003	1/1	0.93	0.14	87,87,87,87	0
53	MG	1A	3807	1/1	0.93	0.20	47,47,47,47	0
53	MG	2A	3012	1/1	0.93	0.16	101,101,101,101	0
53	MG	1A	3146	1/1	0.93	0.12	62,62,62,62	0
53	MG	2A	3227	1/1	0.93	0.18	61,61,61,61	0
53	MG	1A	3198	1/1	0.93	0.20	38,38,38,38	0
53	MG	1A	3318	1/1	0.93	0.21	83,83,83,83	0
53	MG	1A	3199	1/1	0.93	0.16	39,39,39,39	0
53	MG	1A	3730	1/1	0.93	0.16	84,84,84,84	0
53	MG	1A	3819	1/1	0.93	0.14	42,42,42,42	0
53	MG	1A	3272	1/1	0.93	0.11	46,46,46,46	0
53	MG	1A	3388	1/1	0.93	0.12	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3360	1/1	0.93	0.14	53,53,53,53	0
53	MG	1A	3650	1/1	0.93	0.11	62,62,62,62	0
53	MG	1V	201	1/1	0.93	0.15	60,60,60,60	0
53	MG	1A	3390	1/1	0.93	0.12	56,56,56,56	0
53	MG	1A	3117	1/1	0.93	0.22	85,85,85,85	0
53	MG	1A	3274	1/1	0.93	0.09	56,56,56,56	0
53	MG	1A	3393	1/1	0.93	0.23	62,62,62,62	0
53	MG	1A	3104	1/1	0.93	0.16	69,69,69,69	0
53	MG	2A	3131	1/1	0.93	0.10	69,69,69,69	0
53	MG	1A	3835	1/1	0.93	0.09	56,56,56,56	0
53	MG	1A	3395	1/1	0.93	0.15	58,58,58,58	0
53	MG	2a	1723	1/1	0.93	0.16	120,120,120,120	0
53	MG	2A	3372	1/1	0.93	0.10	42,42,42,42	0
53	MG	1a	1769	1/1	0.93	0.14	129,129,129,129	0
53	MG	1A	3447	1/1	0.93	0.15	51,51,51,51	0
53	MG	11	101	1/1	0.93	0.16	40,40,40,40	0
53	MG	11	102	1/1	0.93	0.15	70,70,70,70	0
53	MG	1a	1774	1/1	0.93	0.07	111,111,111,111	0
53	MG	1A	3277	1/1	0.93	0.11	72,72,72,72	0
53	MG	1A	3581	1/1	0.93	0.16	57,57,57,57	0
53	MG	2A	3144	1/1	0.93	0.29	64,64,64,64	0
53	MG	1A	3176	1/1	0.93	0.20	89,89,89,89	0
53	MG	1A	3078	1/1	0.93	0.18	91,91,91,91	0
53	MG	1A	3205	1/1	0.93	0.17	65,65,65,65	0
55	MPD	18	104	8/8	0.93	0.13	32,49,55,65	0
55	MPD	1a	1900	8/8	0.93	0.15	80,100,105,111	0
53	MG	19	101	1/1	0.93	0.10	40,40,40,40	0
53	MG	1A	3107	1/1	0.93	0.24	34,34,34,34	0
53	MG	1B	209	1/1	0.93	0.10	33,33,33,33	0
53	MG	2A	3050	1/1	0.93	0.38	101,101,101,101	0
53	MG	2A	3271	1/1	0.93	0.14	56,56,56,56	0
53	MG	1A	3589	1/1	0.93	0.10	63,63,63,63	0
53	MG	2A	3529	1/1	0.93	0.14	84,84,84,84	0
53	MG	1A	3039	1/1	0.94	0.15	60,60,60,60	0
53	MG	1A	3369	1/1	0.94	0.14	22,22,22,22	0
53	MG	1A	3838	1/1	0.94	0.13	66,66,66,66	0
53	MG	2A	3440	1/1	0.94	0.12	73,73,73,73	0
53	MG	2A	3037	1/1	0.94	0.12	64,64,64,64	0
53	MG	2A	3320	1/1	0.94	0.14	80,80,80,80	0
53	MG	1A	3055	1/1	0.94	0.09	56,56,56,56	0
53	MG	1A	3259	1/1	0.94	0.08	43,43,43,43	0
53	MG	1a	1808	1/1	0.94	0.07	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1a	1809	1/1	0.94	0.08	94,94,94,94	0
53	MG	2A	3326	1/1	0.94	0.19	105,105,105,105	0
53	MG	2A	3223	1/1	0.94	0.13	56,56,56,56	0
53	MG	1A	3552	1/1	0.94	0.09	36,36,36,36	0
53	MG	1A	3651	1/1	0.94	0.17	59,59,59,59	0
53	MG	1A	3372	1/1	0.94	0.22	83,83,83,83	0
53	MG	1A	3469	1/1	0.94	0.21	59,59,59,59	0
53	MG	2A	3336	1/1	0.94	0.21	73,73,73,73	0
53	MG	1B	205	1/1	0.94	0.27	76,76,76,76	0
53	MG	1A	3373	1/1	0.94	0.14	54,54,54,54	0
53	MG	2A	3231	1/1	0.94	0.38	53,53,53,53	0
53	MG	2A	3134	1/1	0.94	0.12	69,69,69,69	0
53	MG	2A	3135	1/1	0.94	0.17	109,109,109,109	0
53	MG	1B	207	1/1	0.94	0.12	75,75,75,75	0
53	MG	2A	3346	1/1	0.94	0.21	76,76,76,76	0
53	MG	2a	1778	1/1	0.94	0.15	111,111,111,111	0
53	MG	1W	3001	1/1	0.94	0.07	36,36,36,36	0
53	MG	1Y	502	1/1	0.94	0.14	100,100,100,100	0
53	MG	2A	3464	1/1	0.94	0.34	90,90,90,90	0
53	MG	1A	3404	1/1	0.94	0.11	60,60,60,60	0
53	MG	2A	3140	1/1	0.94	0.14	81,81,81,81	0
53	MG	1A	3659	1/1	0.94	0.08	56,56,56,56	0
53	MG	1A	3775	1/1	0.94	0.09	54,54,54,54	0
53	MG	1a	1822	1/1	0.94	0.14	60,60,60,60	0
53	MG	1A	3517	1/1	0.94	0.15	59,59,59,59	0
53	MG	2W	201	1/1	0.94	0.10	64,64,64,64	0
53	MG	1A	3609	1/1	0.94	0.09	51,51,51,51	0
53	MG	1A	3319	1/1	0.94	0.09	79,79,79,79	0
53	MG	1A	3611	1/1	0.94	0.07	102,102,102,102	0
53	MG	1A	3406	1/1	0.94	0.11	78,78,78,78	0
53	MG	1A	3299	1/1	0.94	0.08	80,80,80,80	0
53	MG	2A	3362	1/1	0.94	0.14	82,82,82,82	0
53	MG	1A	3478	1/1	0.94	0.18	59,59,59,59	0
53	MG	1A	3481	1/1	0.94	0.12	67,67,67,67	0
53	MG	28	8001	1/1	0.94	0.12	119,119,119,119	0
53	MG	1A	3785	1/1	0.94	0.10	82,82,82,82	0
53	MG	1a	1762	1/1	0.94	0.07	63,63,63,63	0
53	MG	1A	3409	1/1	0.94	0.13	78,78,78,78	0
53	MG	2A	3076	1/1	0.94	0.09	61,61,61,61	0
53	MG	1A	3442	1/1	0.94	0.15	84,84,84,84	0
53	MG	1A	3671	1/1	0.94	0.17	58,58,58,58	0
53	MG	1A	3789	1/1	0.94	0.07	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1l	3002	1/1	0.94	0.07	70,70,70,70	0
53	MG	1A	3379	1/1	0.94	0.10	53,53,53,53	0
53	MG	1D	313	1/1	0.94	0.06	67,67,67,67	0
53	MG	2A	3269	1/1	0.94	0.08	70,70,70,70	0
53	MG	2a	1814	1/1	0.94	0.06	118,118,118,118	0
53	MG	2A	3377	1/1	0.94	0.10	82,82,82,82	0
53	MG	1A	3791	1/1	0.94	0.13	52,52,52,52	0
53	MG	1a	1841	1/1	0.94	0.07	69,69,69,69	0
53	MG	1a	1705	1/1	0.94	0.21	82,82,82,82	0
53	MG	1A	3624	1/1	0.94	0.25	74,74,74,74	0
53	MG	2A	3170	1/1	0.94	0.15	70,70,70,70	0
53	MG	1a	1707	1/1	0.94	0.12	75,75,75,75	0
53	MG	2A	3278	1/1	0.94	0.07	73,73,73,73	0
53	MG	2A	3089	1/1	0.94	0.09	101,101,101,101	0
53	MG	2A	3281	1/1	0.94	0.09	57,57,57,57	0
53	MG	1A	3380	1/1	0.94	0.14	52,52,52,52	0
53	MG	1A	3134	1/1	0.94	0.14	73,73,73,73	0
53	MG	2A	3175	1/1	0.94	0.08	70,70,70,70	0
53	MG	1A	3488	1/1	0.94	0.15	46,46,46,46	0
53	MG	1A	3323	1/1	0.94	0.10	66,66,66,66	0
53	MG	2a	1835	1/1	0.94	0.14	77,77,77,77	0
53	MG	1A	3738	1/1	0.94	0.09	40,40,40,40	0
53	MG	1A	3804	1/1	0.94	0.09	67,67,67,67	0
53	MG	1a	1715	1/1	0.94	0.16	236,236,236,236	0
53	MG	2A	3402	1/1	0.94	0.10	76,76,76,76	0
53	MG	1A	3490	1/1	0.94	0.09	85,85,85,85	0
53	MG	1A	3685	1/1	0.94	0.19	62,62,62,62	0
53	MG	2A	3100	1/1	0.94	0.07	79,79,79,79	0
53	MG	2a	1844	1/1	0.94	0.13	66,66,66,66	0
53	MG	2A	3408	1/1	0.94	0.09	105,105,105,105	0
53	MG	1A	3073	1/1	0.94	0.12	53,53,53,53	0
53	MG	1A	3008	1/1	0.94	0.14	57,57,57,57	0
53	MG	1A	3579	1/1	0.94	0.10	55,55,55,55	0
53	MG	2l	201	1/1	0.94	0.08	89,89,89,89	0
53	MG	2A	3537	1/1	0.94	0.10	65,65,65,65	0
53	MG	2A	3189	1/1	0.94	0.19	67,67,67,67	0
53	MG	1A	3690	1/1	0.94	0.11	40,40,40,40	0
53	MG	1A	3179	1/1	0.94	0.26	62,62,62,62	0
53	MG	2A	3303	1/1	0.94	0.15	64,64,64,64	0
53	MG	1A	3356	1/1	0.94	0.15	68,68,68,68	0
53	MG	1A	3017	1/1	0.94	0.10	85,85,85,85	0
53	MG	2A	3545	1/1	0.94	0.07	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3206	1/1	0.94	0.08	64,64,64,64	0
53	MG	1A	3077	1/1	0.94	0.18	83,83,83,83	0
53	MG	1A	3459	1/1	0.94	0.18	53,53,53,53	0
53	MG	1a	1865	1/1	0.94	0.12	78,78,78,78	0
53	MG	1A	3022	1/1	0.94	0.15	76,76,76,76	0
53	MG	1A	3758	1/1	0.94	0.12	53,53,53,53	0
53	MG	1A	3196	1/1	0.94	0.18	34,34,34,34	0
53	MG	1A	3830	1/1	0.94	0.26	62,62,62,62	0
53	MG	1A	3641	1/1	0.94	0.07	57,57,57,57	0
53	MG	1A	3762	1/1	0.94	0.26	86,86,86,86	0
53	MG	1A	3140	1/1	0.95	0.15	89,89,89,89	0
53	MG	1A	3243	1/1	0.95	0.17	49,49,49,49	0
53	MG	1A	3508	1/1	0.95	0.14	57,57,57,57	0
53	MG	2A	3287	1/1	0.95	0.08	65,65,65,65	0
53	MG	1A	3141	1/1	0.95	0.20	64,64,64,64	0
53	MG	1A	3723	1/1	0.95	0.07	63,63,63,63	0
53	MG	1A	3794	1/1	0.95	0.12	66,66,66,66	0
53	MG	1A	3452	1/1	0.95	0.12	72,72,72,72	0
53	MG	1F	308	1/1	0.95	0.09	52,52,52,52	0
53	MG	1A	3645	1/1	0.95	0.07	61,61,61,61	0
53	MG	1A	3360	1/1	0.95	0.14	67,67,67,67	0
53	MG	2A	3083	1/1	0.95	0.09	98,98,98,98	0
53	MG	1A	3084	1/1	0.95	0.17	57,57,57,57	0
53	MG	1A	3456	1/1	0.95	0.08	52,52,52,52	0
53	MG	1A	3362	1/1	0.95	0.11	59,59,59,59	0
53	MG	1A	3036	1/1	0.95	0.23	57,57,57,57	0
53	MG	2A	3419	1/1	0.95	0.14	54,54,54,54	0
53	MG	2A	3301	1/1	0.95	0.09	66,66,66,66	0
53	MG	1a	1823	1/1	0.95	0.27	91,91,91,91	0
53	MG	1A	3038	1/1	0.95	0.06	50,50,50,50	0
53	MG	1A	3410	1/1	0.95	0.07	58,58,58,58	0
53	MG	1A	3228	1/1	0.95	0.25	28,28,28,28	0
53	MG	1A	3658	1/1	0.95	0.13	40,40,40,40	0
53	MG	1A	3462	1/1	0.95	0.25	55,55,55,55	0
53	MG	2A	3428	1/1	0.95	0.17	66,66,66,66	0
53	MG	1A	3080	1/1	0.95	0.07	26,26,26,26	0
53	MG	1A	3081	1/1	0.95	0.15	70,70,70,70	0
53	MG	2A	3096	1/1	0.95	0.15	50,50,50,50	0
53	MG	1A	3591	1/1	0.95	0.13	56,56,56,56	0
53	MG	2A	3001	1/1	0.95	0.28	98,98,98,98	0
53	MG	1A	3322	1/1	0.95	0.10	80,80,80,80	0
53	MG	1A	3822	1/1	0.95	0.05	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2D	306	1/1	0.95	0.29	59,59,59,59	0
53	MG	1A	3416	1/1	0.95	0.11	80,80,80,80	0
53	MG	1A	3744	1/1	0.95	0.15	73,73,73,73	0
53	MG	1A	3286	1/1	0.95	0.13	67,67,67,67	0
53	MG	1A	3827	1/1	0.95	0.16	72,72,72,72	0
53	MG	1A	3418	1/1	0.95	0.09	64,64,64,64	0
53	MG	1A	3046	1/1	0.95	0.18	90,90,90,90	0
53	MG	2F	303	1/1	0.95	0.08	88,88,88,88	0
53	MG	1A	3668	1/1	0.95	0.11	74,74,74,74	0
53	MG	1A	3601	1/1	0.95	0.28	56,56,56,56	0
53	MG	2A	3110	1/1	0.95	0.15	59,59,59,59	0
53	MG	1A	3750	1/1	0.95	0.13	78,78,78,78	0
53	MG	1A	3532	1/1	0.95	0.14	82,82,82,82	0
53	MG	1Z	8001	1/1	0.95	0.04	54,54,54,54	0
53	MG	1A	3256	1/1	0.95	0.11	63,63,63,63	0
53	MG	2A	3331	1/1	0.95	0.20	103,103,103,103	0
53	MG	1A	3257	1/1	0.95	0.07	40,40,40,40	0
53	MG	1A	3754	1/1	0.95	0.06	54,54,54,54	0
53	MG	2A	3221	1/1	0.95	0.09	65,65,65,65	0
53	MG	2a	1800	1/1	0.95	0.06	79,79,79,79	0
53	MG	1A	3423	1/1	0.95	0.21	62,62,62,62	0
53	MG	1A	3292	1/1	0.95	0.12	55,55,55,55	0
53	MG	2a	1803	1/1	0.95	0.08	146,146,146,146	0
53	MG	10	105	1/1	0.95	0.17	68,68,68,68	0
53	MG	1A	3377	1/1	0.95	0.15	79,79,79,79	0
53	MG	2A	3341	1/1	0.95	0.06	117,117,117,117	0
53	MG	1A	3479	1/1	0.95	0.20	63,63,63,63	0
53	MG	1A	3150	1/1	0.95	0.10	66,66,66,66	0
53	MG	1A	3760	1/1	0.95	0.21	81,81,81,81	0
53	MG	1A	3135	1/1	0.95	0.14	45,45,45,45	0
53	MG	1A	3612	1/1	0.95	0.09	79,79,79,79	0
53	MG	1A	3382	1/1	0.95	0.08	71,71,71,71	0
53	MG	18	101	1/1	0.95	0.14	69,69,69,69	0
53	MG	1A	3383	1/1	0.95	0.16	43,43,43,43	0
53	MG	2A	3239	1/1	0.95	0.08	74,74,74,74	0
53	MG	1a	1780	1/1	0.95	0.18	77,77,77,77	0
53	MG	2a	1817	1/1	0.95	0.25	81,81,81,81	0
53	MG	2A	3353	1/1	0.95	0.09	86,86,86,86	0
53	MG	1a	1861	1/1	0.95	0.06	99,99,99,99	0
53	MG	1A	3333	1/1	0.95	0.07	91,91,91,91	0
53	MG	1A	3689	1/1	0.95	0.10	69,69,69,69	0
53	MG	1A	3617	1/1	0.95	0.10	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3053	1/1	0.95	0.19	72,72,72,72	0
53	MG	2a	1826	1/1	0.95	0.09	89,89,89,89	0
53	MG	1A	3386	1/1	0.95	0.07	40,40,40,40	0
53	MG	1A	3174	1/1	0.95	0.21	78,78,78,78	0
53	MG	1A	3337	1/1	0.95	0.19	53,53,53,53	0
53	MG	2A	3042	1/1	0.95	0.08	83,83,83,83	0
53	MG	2A	3491	1/1	0.95	0.06	66,66,66,66	0
53	MG	1A	3264	1/1	0.95	0.20	46,46,46,46	0
53	MG	2A	3494	1/1	0.95	0.27	79,79,79,79	0
53	MG	2A	3253	1/1	0.95	0.11	78,78,78,78	0
53	MG	1A	3108	1/1	0.95	0.10	60,60,60,60	0
53	MG	1D	301	1/1	0.95	0.08	61,61,61,61	0
53	MG	1A	3554	1/1	0.95	0.06	43,43,43,43	0
53	MG	1A	3195	1/1	0.95	0.12	52,52,52,52	0
53	MG	2A	3049	1/1	0.95	0.07	78,78,78,78	0
53	MG	1A	3139	1/1	0.95	0.07	37,37,37,37	0
53	MG	1A	3558	1/1	0.95	0.12	66,66,66,66	0
53	MG	1D	311	1/1	0.95	0.12	71,71,71,71	0
53	MG	2A	3374	1/1	0.95	0.14	59,59,59,59	0
53	MG	1a	1878	1/1	0.95	0.15	82,82,82,82	0
53	MG	2A	3057	1/1	0.95	0.42	87,87,87,87	0
53	MG	1A	3216	1/1	0.95	0.10	48,48,48,48	0
53	MG	1A	3304	1/1	0.95	0.23	101,101,101,101	0
53	MG	2A	3379	1/1	0.95	0.07	114,114,114,114	0
53	MG	1A	3306	1/1	0.95	0.17	73,73,73,73	0
53	MG	2A	3268	1/1	0.95	0.10	44,44,44,44	0
53	MG	2A	3517	1/1	0.95	0.18	86,86,86,86	0
53	MG	1a	1882	1/1	0.95	0.10	72,72,72,72	0
53	MG	2A	3156	1/1	0.95	0.20	74,74,74,74	0
53	MG	1A	3197	1/1	0.95	0.09	70,70,70,70	0
53	MG	2A	3273	1/1	0.95	0.11	70,70,70,70	0
53	MG	1A	3349	1/1	0.95	0.10	33,33,33,33	0
53	MG	1E	302	1/1	0.95	0.26	42,42,42,42	0
53	MG	1A	3446	1/1	0.95	0.14	64,64,64,64	0
53	MG	2A	3391	1/1	0.95	0.06	67,67,67,67	0
53	MG	1A	3157	1/1	0.95	0.10	75,75,75,75	0
53	MG	2A	3067	1/1	0.95	0.07	80,80,80,80	0
53	MG	2A	3532	1/1	0.95	0.10	70,70,70,70	0
53	MG	1A	3504	1/1	0.95	0.08	38,38,38,38	0
53	MG	1A	3505	1/1	0.95	0.15	78,78,78,78	0
53	MG	1E	307	1/1	0.95	0.06	38,38,38,38	0
53	MG	1A	3824	1/1	0.96	0.27	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3527	1/1	0.96	0.20	60,60,60,60	0
53	MG	1A	3170	1/1	0.96	0.20	59,59,59,59	0
53	MG	1A	3354	1/1	0.96	0.14	73,73,73,73	0
53	MG	1A	3041	1/1	0.96	0.24	72,72,72,72	0
53	MG	1A	3678	1/1	0.96	0.07	53,53,53,53	0
53	MG	1A	3829	1/1	0.96	0.21	64,64,64,64	0
53	MG	1S	201	1/1	0.96	0.07	84,84,84,84	0
53	MG	1A	3357	1/1	0.96	0.11	37,37,37,37	0
53	MG	2A	3404	1/1	0.96	0.06	83,83,83,83	0
53	MG	2A	3405	1/1	0.96	0.07	77,77,77,77	0
53	MG	1A	3316	1/1	0.96	0.14	87,87,87,87	0
53	MG	1A	3833	1/1	0.96	0.11	59,59,59,59	0
53	MG	1A	3317	1/1	0.96	0.06	57,57,57,57	0
53	MG	1A	3281	1/1	0.96	0.19	68,68,68,68	0
53	MG	1A	3684	1/1	0.96	0.11	65,65,65,65	0
53	MG	1A	3616	1/1	0.96	0.11	73,73,73,73	0
53	MG	1A	3065	1/1	0.96	0.16	58,58,58,58	0
53	MG	2A	3413	1/1	0.96	0.21	93,93,93,93	0
53	MG	1X	101	1/1	0.96	0.14	75,75,75,75	0
53	MG	1A	3283	1/1	0.96	0.07	35,35,35,35	0
53	MG	2A	3554	1/1	0.96	0.08	68,68,68,68	0
53	MG	2A	3193	1/1	0.96	0.06	75,75,75,75	0
53	MG	2A	3556	1/1	0.96	0.05	62,62,62,62	0
53	MG	1A	3408	1/1	0.96	0.19	85,85,85,85	0
53	MG	1A	3621	1/1	0.96	0.10	74,74,74,74	0
53	MG	2A	3102	1/1	0.96	0.11	90,90,90,90	0
53	MG	1A	3556	1/1	0.96	0.14	49,49,49,49	0
53	MG	1A	3502	1/1	0.96	0.07	43,43,43,43	0
53	MG	1a	1765	1/1	0.96	0.16	83,83,83,83	0
53	MG	1A	3119	1/1	0.96	0.12	87,87,87,87	0
53	MG	1A	3559	1/1	0.96	0.08	47,47,47,47	0
53	MG	1A	3454	1/1	0.96	0.10	64,64,64,64	0
53	MG	2B	203	1/1	0.96	0.49	85,85,85,85	0
53	MG	1A	3767	1/1	0.96	0.10	55,55,55,55	0
53	MG	1A	3137	1/1	0.96	0.12	66,66,66,66	0
53	MG	1A	3147	1/1	0.96	0.14	65,65,65,65	0
53	MG	2B	207	1/1	0.96	0.12	67,67,67,67	0
53	MG	2a	1779	1/1	0.96	0.10	109,109,109,109	0
53	MG	1A	3563	1/1	0.96	0.11	56,56,56,56	0
53	MG	1A	3324	1/1	0.96	0.14	68,68,68,68	0
53	MG	2A	3209	1/1	0.96	0.14	71,71,71,71	0
53	MG	2A	3436	1/1	0.96	0.11	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3211	1/1	0.96	0.10	62,62,62,62	0
53	MG	1A	3413	1/1	0.96	0.20	57,57,57,57	0
53	MG	1A	3704	1/1	0.96	0.14	47,47,47,47	0
53	MG	1A	3009	1/1	0.96	0.13	55,55,55,55	0
53	MG	1A	3706	1/1	0.96	0.09	44,44,44,44	0
53	MG	1A	3326	1/1	0.96	0.09	73,73,73,73	0
53	MG	1A	3215	1/1	0.96	0.16	80,80,80,80	0
53	MG	2A	3220	1/1	0.96	0.15	76,76,76,76	0
53	MG	2A	3327	1/1	0.96	0.12	82,82,82,82	0
53	MG	1A	3328	1/1	0.96	0.13	56,56,56,56	0
53	MG	2A	3222	1/1	0.96	0.08	65,65,65,65	0
53	MG	1A	3513	1/1	0.96	0.11	99,99,99,99	0
53	MG	1A	3514	1/1	0.96	0.08	70,70,70,70	0
53	MG	2A	3225	1/1	0.96	0.08	58,58,58,58	0
53	MG	1A	3149	1/1	0.96	0.09	55,55,55,55	0
53	MG	2A	3335	1/1	0.96	0.10	95,95,95,95	0
53	MG	1A	3516	1/1	0.96	0.06	70,70,70,70	0
53	MG	1A	3261	1/1	0.96	0.07	71,71,71,71	0
53	MG	1a	1787	1/1	0.96	0.18	118,118,118,118	0
53	MG	2R	201	1/1	0.96	0.20	93,93,93,93	0
53	MG	1A	3262	1/1	0.96	0.06	36,36,36,36	0
53	MG	2T	3001	1/1	0.96	0.06	95,95,95,95	0
53	MG	2A	3340	1/1	0.96	0.08	64,64,64,64	0
53	MG	1a	1708	1/1	0.96	0.04	164,164,164,164	0
53	MG	1a	1870	1/1	0.96	0.06	101,101,101,101	0
53	MG	2A	3233	1/1	0.96	0.09	56,56,56,56	0
53	MG	1A	3217	1/1	0.96	0.07	69,69,69,69	0
53	MG	2A	3345	1/1	0.96	0.05	52,52,52,52	0
53	MG	1A	3219	1/1	0.96	0.12	62,62,62,62	0
53	MG	1A	3085	1/1	0.96	0.09	64,64,64,64	0
53	MG	1A	3646	1/1	0.96	0.05	83,83,83,83	0
53	MG	1A	3470	1/1	0.96	0.09	39,39,39,39	0
53	MG	1A	3523	1/1	0.96	0.06	59,59,59,59	0
53	MG	2A	3472	1/1	0.96	0.21	87,87,87,87	0
53	MG	2a	1820	1/1	0.96	0.09	126,126,126,126	0
53	MG	1A	3152	1/1	0.96	0.16	87,87,87,87	0
53	MG	1A	3584	1/1	0.96	0.09	55,55,55,55	0
53	MG	1A	3268	1/1	0.96	0.06	41,41,41,41	0
53	MG	2A	3354	1/1	0.96	0.21	60,60,60,60	0
53	MG	2A	3051	1/1	0.96	0.11	97,97,97,97	0
53	MG	1A	3269	1/1	0.96	0.05	71,71,71,71	0
53	MG	1A	3183	1/1	0.96	0.10	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2A	3055	1/1	0.96	0.12	78,78,78,78	0
53	MG	1A	3165	1/1	0.96	0.26	83,83,83,83	0
53	MG	1A	3590	1/1	0.96	0.14	66,66,66,66	0
53	MG	1A	3803	1/1	0.96	0.06	50,50,50,50	0
53	MG	1A	3342	1/1	0.96	0.18	62,62,62,62	0
53	MG	1F	304	1/1	0.96	0.21	49,49,49,49	0
53	MG	1A	3005	1/1	0.96	0.04	59,59,59,59	0
53	MG	1A	3344	1/1	0.96	0.12	48,48,48,48	0
53	MG	2A	3492	1/1	0.96	0.06	86,86,86,86	0
53	MG	1A	3246	1/1	0.96	0.12	46,46,46,46	0
53	MG	2A	3152	1/1	0.96	0.13	72,72,72,72	0
53	MG	2a	1841	1/1	0.96	0.26	58,58,58,58	0
53	MG	1a	1890	1/1	0.96	0.12	67,67,67,67	0
53	MG	1A	3808	1/1	0.96	0.06	59,59,59,59	0
53	MG	1A	3167	1/1	0.96	0.12	80,80,80,80	0
53	MG	1a	1893	1/1	0.96	0.08	82,82,82,82	0
53	MG	1A	3484	1/1	0.96	0.16	71,71,71,71	0
53	MG	1G	8002	1/1	0.96	0.24	92,92,92,92	0
53	MG	1A	3537	1/1	0.96	0.16	78,78,78,78	0
53	MG	1A	3739	1/1	0.96	0.08	37,37,37,37	0
53	MG	1A	3275	1/1	0.96	0.08	42,42,42,42	0
53	MG	2A	3073	1/1	0.96	0.26	60,60,60,60	0
53	MG	2A	3074	1/1	0.96	0.12	101,101,101,101	0
53	MG	2A	3272	1/1	0.96	0.09	114,114,114,114	0
53	MG	1A	3818	1/1	0.96	0.23	76,76,76,76	0
53	MG	2A	3508	1/1	0.96	0.05	86,86,86,86	0
53	MG	1A	3249	1/1	0.96	0.11	58,58,58,58	0
53	MG	1a	1737	1/1	0.96	0.07	114,114,114,114	0
53	MG	2A	3383	1/1	0.96	0.16	78,78,78,78	0
53	MG	2A	3167	1/1	0.96	0.06	87,87,87,87	0
53	MG	1A	3106	1/1	0.96	0.09	84,84,84,84	0
53	MG	1A	3397	1/1	0.96	0.12	61,61,61,61	0
53	MG	1A	3440	1/1	0.96	0.07	60,60,60,60	0
53	MG	2A	3280	1/1	0.96	0.06	70,70,70,70	0
53	MG	1P	202	1/1	0.96	0.06	65,65,65,65	0
53	MG	2A	3282	1/1	0.96	0.07	110,110,110,110	0
53	MG	1A	3056	1/1	0.96	0.24	78,78,78,78	0
53	MG	2A	3393	1/1	0.96	0.04	65,65,65,65	0
53	MG	1B	212	1/1	0.97	0.07	55,55,55,55	0
53	MG	1A	3528	1/1	0.97	0.23	56,56,56,56	0
53	MG	1A	3647	1/1	0.97	0.10	65,65,65,65	0
53	MG	1A	3186	1/1	0.97	0.07	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3061	1/1	0.97	0.13	56,56,56,56	0
53	MG	2A	3509	1/1	0.97	0.07	67,67,67,67	0
53	MG	2A	3510	1/1	0.97	0.09	77,77,77,77	0
53	MG	1A	3151	1/1	0.97	0.11	58,58,58,58	0
53	MG	1B	218	1/1	0.97	0.05	27,27,27,27	0
53	MG	1B	219	1/1	0.97	0.10	67,67,67,67	0
53	MG	2A	3515	1/1	0.97	0.05	76,76,76,76	0
53	MG	1A	3500	1/1	0.97	0.07	65,65,65,65	0
53	MG	1A	3290	1/1	0.97	0.13	51,51,51,51	0
53	MG	1A	3389	1/1	0.97	0.08	76,76,76,76	0
53	MG	2A	3430	1/1	0.97	0.05	71,71,71,71	0
53	MG	1A	3654	1/1	0.97	0.09	55,55,55,55	0
53	MG	2A	3521	1/1	0.97	0.08	79,79,79,79	0
53	MG	1A	3334	1/1	0.97	0.13	59,59,59,59	0
53	MG	1A	3656	1/1	0.97	0.07	83,83,83,83	0
53	MG	2A	3434	1/1	0.97	0.08	55,55,55,55	0
53	MG	1W	3002	1/1	0.97	0.15	45,45,45,45	0
53	MG	2A	3210	1/1	0.97	0.08	62,62,62,62	0
53	MG	1A	3291	1/1	0.97	0.07	37,37,37,37	0
53	MG	1a	1800	1/1	0.97	0.07	59,59,59,59	0
53	MG	1A	3474	1/1	0.97	0.09	52,52,52,52	0
53	MG	2A	3530	1/1	0.97	0.26	69,69,69,69	0
53	MG	2A	3531	1/1	0.97	0.09	94,94,94,94	0
53	MG	1A	3539	1/1	0.97	0.10	53,53,53,53	0
53	MG	2A	3289	1/1	0.97	0.21	57,57,57,57	0
53	MG	1D	308	1/1	0.97	0.09	79,79,79,79	0
53	MG	2A	3216	1/1	0.97	0.12	79,79,79,79	0
53	MG	2A	3145	1/1	0.97	0.31	89,89,89,89	0
53	MG	2A	3218	1/1	0.97	0.11	76,76,76,76	0
53	MG	1D	309	1/1	0.97	0.08	77,77,77,77	0
53	MG	1D	310	1/1	0.97	0.07	92,92,92,92	0
53	MG	2A	3015	1/1	0.97	0.11	69,69,69,69	0
53	MG	2A	3016	1/1	0.97	0.11	105,105,105,105	0
53	MG	1A	3475	1/1	0.97	0.08	36,36,36,36	0
53	MG	1A	3575	1/1	0.97	0.08	73,73,73,73	0
53	MG	1A	3817	1/1	0.97	0.24	34,34,34,34	0
53	MG	1A	3313	1/1	0.97	0.19	45,45,45,45	0
53	MG	1A	3178	1/1	0.97	0.11	71,71,71,71	0
53	MG	2A	3457	1/1	0.97	0.20	94,94,94,94	0
53	MG	1a	1749	1/1	0.97	0.17	95,95,95,95	0
53	MG	1A	3365	1/1	0.97	0.15	42,42,42,42	0
53	MG	2a	1821	1/1	0.97	0.10	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3115	1/1	0.97	0.05	45,45,45,45	0
53	MG	1A	3480	1/1	0.97	0.07	92,92,92,92	0
53	MG	1A	3450	1/1	0.97	0.11	41,41,41,41	0
53	MG	17	101	1/1	0.97	0.06	65,65,65,65	0
53	MG	1A	3016	1/1	0.97	0.21	73,73,73,73	0
53	MG	1A	3192	1/1	0.97	0.11	59,59,59,59	0
53	MG	2A	3561	1/1	0.97	0.14	78,78,78,78	0
53	MG	2A	3466	1/1	0.97	0.07	61,61,61,61	0
53	MG	1A	3296	1/1	0.97	0.05	61,61,61,61	0
53	MG	18	103	1/1	0.97	0.07	73,73,73,73	0
53	MG	1E	308	1/1	0.97	0.06	67,67,67,67	0
53	MG	1A	3247	1/1	0.97	0.11	55,55,55,55	0
53	MG	1A	3587	1/1	0.97	0.09	50,50,50,50	0
53	MG	2A	3473	1/1	0.97	0.12	79,79,79,79	0
53	MG	1A	3551	1/1	0.97	0.12	66,66,66,66	0
53	MG	1A	3218	1/1	0.97	0.11	71,71,71,71	0
53	MG	1A	3831	1/1	0.97	0.07	41,41,41,41	0
53	MG	1A	3011	1/1	0.97	0.14	78,78,78,78	0
53	MG	1A	3220	1/1	0.97	0.12	46,46,46,46	0
53	MG	2D	301	1/1	0.97	0.10	68,68,68,68	0
53	MG	1A	3680	1/1	0.97	0.07	28,28,28,28	0
53	MG	2A	3397	1/1	0.97	0.15	81,81,81,81	0
53	MG	2A	3482	1/1	0.97	0.17	115,115,115,115	0
53	MG	1A	3171	1/1	0.97	0.07	73,73,73,73	0
53	MG	1A	3267	1/1	0.97	0.07	25,25,25,25	0
53	MG	2A	3324	1/1	0.97	0.24	78,78,78,78	0
53	MG	2E	301	1/1	0.97	0.09	52,52,52,52	0
53	MG	2A	3252	1/1	0.97	0.14	61,61,61,61	0
53	MG	1A	3034	1/1	0.97	0.10	34,34,34,34	0
53	MG	2E	304	1/1	0.97	0.07	93,93,93,93	0
53	MG	2A	3045	1/1	0.97	0.09	92,92,92,92	0
53	MG	1A	3595	1/1	0.97	0.11	47,47,47,47	0
53	MG	1A	3350	1/1	0.97	0.06	52,52,52,52	0
53	MG	2A	3330	1/1	0.97	0.37	45,45,45,45	0
53	MG	1a	1773	1/1	0.97	0.14	51,51,51,51	0
53	MG	1A	3784	1/1	0.97	0.06	39,39,39,39	0
53	MG	1A	3597	1/1	0.97	0.05	41,41,41,41	0
53	MG	1A	3381	1/1	0.97	0.07	44,44,44,44	0
53	MG	1A	3305	1/1	0.97	0.15	31,31,31,31	0
53	MG	1A	3740	1/1	0.97	0.14	33,33,33,33	0
53	MG	1A	3642	1/1	0.97	0.06	77,77,77,77	0
53	MG	1A	3112	1/1	0.97	0.09	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3691	1/1	0.97	0.06	70,70,70,70	0
57	ZN	15	101	1/1	0.97	0.08	74,74,74,74	0
57	ZN	26	501	1/1	0.97	0.06	118,118,118,118	0
53	MG	1A	3603	1/1	0.97	0.10	69,69,69,69	0
53	MG	1A	3076	1/1	0.97	0.06	78,78,78,78	0
58	SF4	1d	501	8/8	0.97	0.07	116,146,171,175	0
58	SF4	2d	501	8/8	0.97	0.07	118,150,171,175	0
53	MG	1A	3434	1/1	0.98	0.07	67,67,67,67	0
53	MG	1A	3583	1/1	0.98	0.19	61,61,61,61	0
53	MG	1A	3001	1/1	0.98	0.05	57,57,57,57	0
53	MG	2A	3259	1/1	0.98	0.08	93,93,93,93	0
53	MG	1A	3719	1/1	0.98	0.05	73,73,73,73	0
53	MG	1A	3720	1/1	0.98	0.06	61,61,61,61	0
53	MG	1A	3813	1/1	0.98	0.09	37,37,37,37	0
53	MG	2A	3052	1/1	0.98	0.21	65,65,65,65	0
53	MG	1A	3692	1/1	0.98	0.04	53,53,53,53	0
53	MG	1A	3173	1/1	0.98	0.09	79,79,79,79	0
53	MG	1A	3694	1/1	0.98	0.08	72,72,72,72	0
53	MG	2a	1705	1/1	0.98	0.04	126,126,126,126	0
53	MG	1a	1894	1/1	0.98	0.07	53,53,53,53	0
53	MG	1A	3534	1/1	0.98	0.05	43,43,43,43	0
53	MG	2A	3178	1/1	0.98	0.28	96,96,96,96	0
53	MG	2A	3512	1/1	0.98	0.12	79,79,79,79	0
53	MG	1A	3068	1/1	0.98	0.09	83,83,83,83	0
53	MG	1A	3422	1/1	0.98	0.16	62,62,62,62	0
53	MG	1A	3353	1/1	0.98	0.12	63,63,63,63	0
53	MG	2A	3021	1/1	0.98	0.07	66,66,66,66	0
53	MG	1A	3674	1/1	0.98	0.04	45,45,45,45	0
53	MG	1A	3297	1/1	0.98	0.10	65,65,65,65	0
53	MG	1A	3355	1/1	0.98	0.04	47,47,47,47	0
53	MG	1A	3677	1/1	0.98	0.06	42,42,42,42	0
53	MG	1A	3368	1/1	0.98	0.11	32,32,32,32	0
53	MG	1A	3094	1/1	0.98	0.04	51,51,51,51	0
53	MG	2A	3470	1/1	0.98	0.06	73,73,73,73	0
53	MG	2A	3420	1/1	0.98	0.06	65,65,65,65	0
53	MG	1A	3035	1/1	0.98	0.11	57,57,57,57	0
53	MG	1A	3120	1/1	0.98	0.16	74,74,74,74	0
53	MG	2A	3192	1/1	0.98	0.06	68,68,68,68	0
53	MG	1A	3359	1/1	0.98	0.09	65,65,65,65	0
53	MG	2A	3237	1/1	0.98	0.10	54,54,54,54	0
53	MG	1B	225	1/1	0.98	0.20	69,69,69,69	0
53	MG	2F	304	1/1	0.98	0.08	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	2a	1788	1/1	0.98	0.06	96,96,96,96	0
53	MG	2A	3478	1/1	0.98	0.06	81,81,81,81	0
53	MG	2A	3195	1/1	0.98	0.10	65,65,65,65	0
53	MG	1A	3709	1/1	0.98	0.04	30,30,30,30	0
53	MG	1A	3063	1/1	0.98	0.13	84,84,84,84	0
53	MG	1A	3618	1/1	0.98	0.07	60,60,60,60	0
53	MG	1D	305	1/1	0.98	0.10	45,45,45,45	0
53	MG	1A	3598	1/1	0.98	0.05	69,69,69,69	0
53	MG	1A	3802	1/1	0.98	0.14	54,54,54,54	0
53	MG	1A	3836	1/1	0.98	0.07	34,34,34,34	0
53	MG	1N	204	1/1	0.98	0.12	37,37,37,37	0
53	MG	1O	8001	1/1	0.98	0.05	75,75,75,75	0
53	MG	2A	3542	1/1	0.98	0.12	71,71,71,71	0
53	MG	2A	3489	1/1	0.98	0.08	74,74,74,74	0
53	MG	2A	3438	1/1	0.98	0.11	100,100,100,100	0
53	MG	2U	201	1/1	0.98	0.06	79,79,79,79	0
53	MG	17	103	1/1	0.98	0.14	66,66,66,66	0
53	MG	2A	3251	1/1	0.98	0.05	41,41,41,41	0
53	MG	1A	3599	1/1	0.98	0.12	57,57,57,57	0
57	ZN	2Y	501	1/1	0.98	0.05	143,143,143,143	0
57	ZN	25	102	1/1	0.98	0.11	103,103,103,103	0
53	MG	2A	3548	1/1	0.98	0.05	77,77,77,77	0
53	MG	1A	3374	1/1	0.98	0.10	33,33,33,33	0
53	MG	1A	3743	1/1	0.98	0.08	103,103,103,103	0
53	MG	2A	3394	1/1	0.98	0.06	105,105,105,105	0
53	MG	1A	3071	1/1	0.98	0.10	83,83,83,83	0
53	MG	1A	3244	1/1	0.99	0.03	68,68,68,68	0
53	MG	1A	3378	1/1	0.99	0.04	52,52,52,52	0
53	MG	1D	302	1/1	0.99	0.12	58,58,58,58	0
53	MG	1A	3814	1/1	0.99	0.05	44,44,44,44	0
53	MG	2A	3182	1/1	0.99	0.04	86,86,86,86	0
53	MG	1A	3673	1/1	0.99	0.03	48,48,48,48	0
53	MG	2A	3435	1/1	0.99	0.05	60,60,60,60	0
53	MG	2A	3390	1/1	0.99	0.09	87,87,87,87	0
53	MG	1A	3314	1/1	0.99	0.05	62,62,62,62	0
53	MG	1A	3202	1/1	0.99	0.14	49,49,49,49	0
57	ZN	1Y	501	1/1	0.99	0.07	97,97,97,97	0
53	MG	2A	3238	1/1	0.99	0.06	74,74,74,74	0
57	ZN	16	501	1/1	0.99	0.07	68,68,68,68	0
57	ZN	19	102	1/1	0.99	0.10	67,67,67,67	0
53	MG	2a	1780	1/1	0.99	0.03	74,74,74,74	0
53	MG	1B	208	1/1	0.99	0.05	43,43,43,43	0

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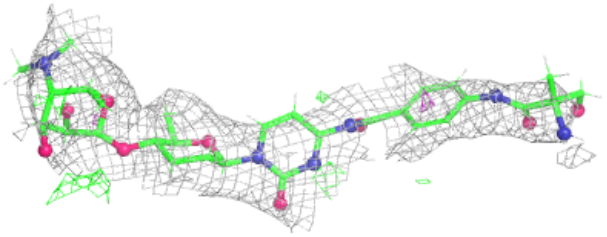
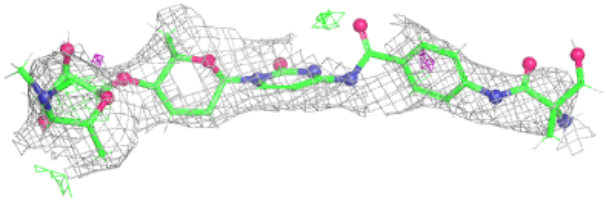
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
53	MG	1A	3340	1/1	0.99	0.03	38,38,38,38	0
53	MG	2a	1834	1/1	0.99	0.22	46,46,46,46	0
53	MG	1A	3809	1/1	0.99	0.04	47,47,47,47	0
53	MG	1A	3060	1/1	0.99	0.06	45,45,45,45	0
53	MG	1A	3467	1/1	0.99	0.06	30,30,30,30	0
53	MG	1A	3695	1/1	1.00	0.03	36,36,36,36	0

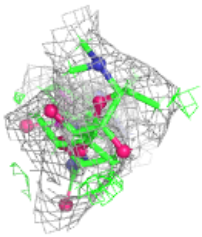
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around FSD 2A 3553:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

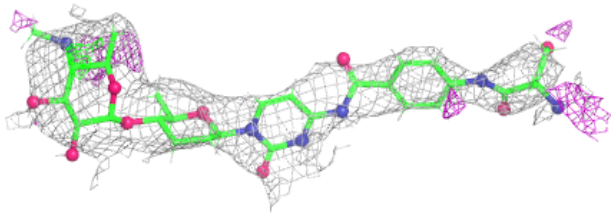


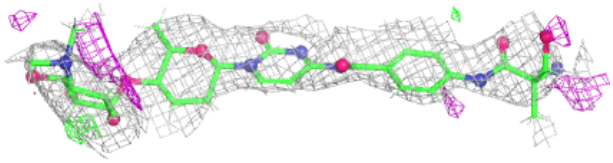


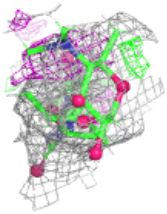


Electron density around FSD 1A 3801:

$2mF_o$-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.