Full wwPDB X-ray Structure Validation Report (i)

Mar 20, 2026 – 09:13 AM UTC

PDB ID	:	6XHV / pdb_00006xhv
Title	:	Crystal structure of the A2058-dimethylated Thermus thermophilus 70S ribosome in complex with mRNA, aminoacylated A- and P-site tRNAs, and deacylated E-site tRNA at 2.40A resolution
Authors	:	Svetlov, M.S.; Syroegin, E.A.; Aleksandrova, E.V.; Atkinson, G.C.; Gregory, S.T.; Mankin, A.S.; Polikanov, Y.S.
Deposited on	:	2020-06-19
Resolution	:	2.40 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 (i) 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 (i)) were used in the production of this report:

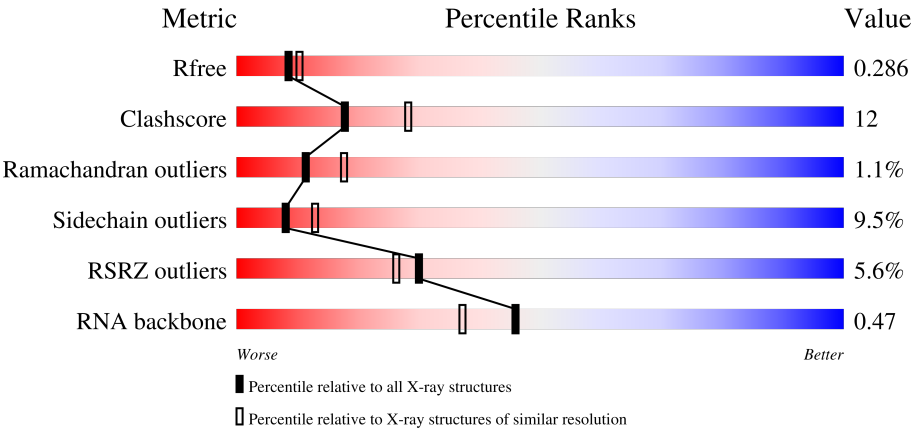
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)
RNA backbone	3983	1155 (2.70-2.10)

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	4% 53% 36% 9% .
1	2A	2915	5% 47% 40% 9% .
2	1B	121	66% 30% . .

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Mol	Chain	Length	Quality of chain
2	2B	121	42% 43% 14%
3	1D	276	70% 28%
3	2D	276	4% 72% 25%
4	1E	206	63% 32%
4	2E	206	2% 65% 29% 6%
5	1F	210	63% 30%
5	2F	210	4% 53% 38% 5%
6	1G	182	4% 63% 32%
6	2G	182	9% 51% 40% 9%
7	1H	180	2% 68% 27%
7	2H	180	17% 56% 38%
8	1I	148	2% 65% 26% 8%
8	2I	148	13% 60% 29% 9%
9	1N	140	76% 21%
9	2N	140	4% 65% 31%
10	1O	122	66% 30%
10	2O	122	2% 68% 29%
11	1P	150	63% 33%
11	2P	150	8% 64% 29% 6%
12	1Q	141	78% 20%
12	2Q	141	7% 66% 30%
13	1R	118	66% 28% 6%
13	2R	118	4% 66% 31%
14	1S	112	63% 29% 5%
14	2S	112	4% 58% 32% 8%

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Mol	Chain	Length	Quality of chain
15	1T	146	2% 62% 26% 10%
15	2T	146	% 57% 31% 10%
16	1U	118	81% 15%
16	2U	118	3% 71% 25%
17	1V	101	% 69% 28%
17	2V	101	3% 68% 27%
18	1W	113	74% 23%
18	2W	113	2% 72% 25%
19	1X	96	% 58% 36%
19	2X	96	8% 60% 33%
20	1Y	110	% 71% 23%
20	2Y	110	9% 60% 32% 5%
21	1Z	206	9% 38% 33% 25%
21	2Z	206	19% 39% 31% 8% 22%
22	10	85	82% 15%
22	20	85	9% 74% 24%
23	11	98	2% 73% 24%
23	21	98	4% 71% 23%
24	12	72	% 65% 32%
24	22	72	% 53% 39% 6%
25	13	60	62% 32% 5%
25	23	60	2% 55% 35% 8%
26	14	71	17% 49% 35% 11%
26	24	71	23% 51% 38% 8%
27	15	60	2% 65% 28% 5%

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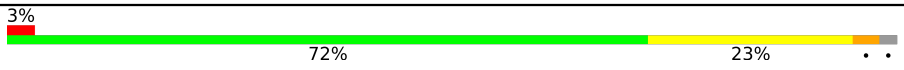
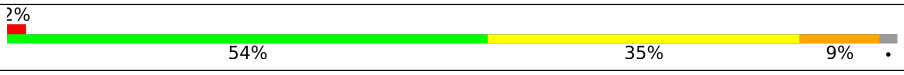
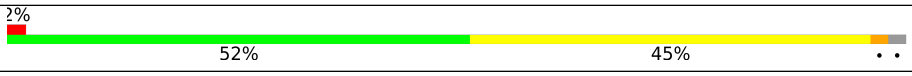
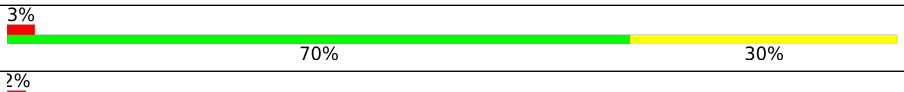
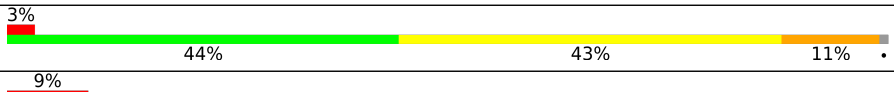
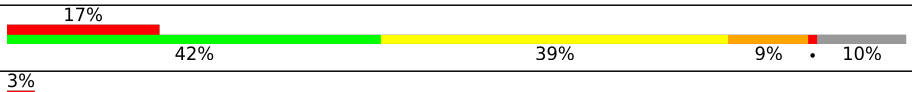
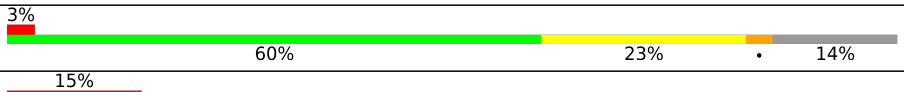
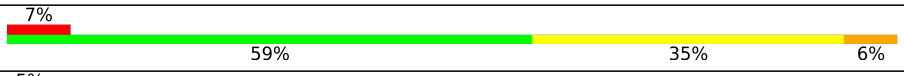
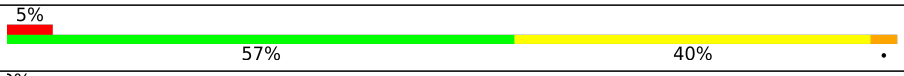
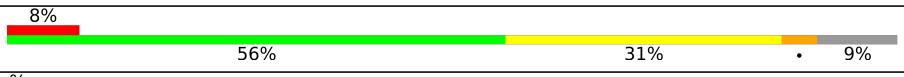
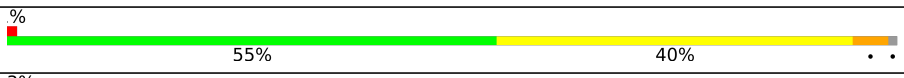
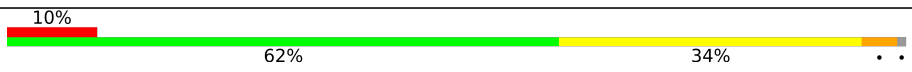
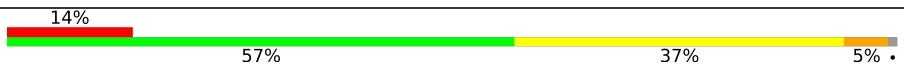
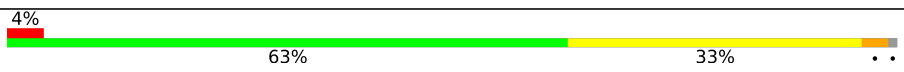
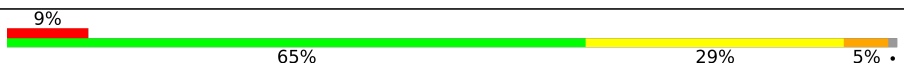
Mol	Chain	Length	Quality of chain
27	25	60	
28	16	54	
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	
39	2h	138	

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Mol	Chain	Length	Quality of chain
40	1i	128	9% 60% 36%
40	2i	128	31% 40% 52% 7%
41	1j	105	10% 56% 33% 8%
41	2j	105	27% 40% 47% 5% 9%
42	1k	129	2% 60% 28% 12%
42	2k	129	8% 53% 34% 12%
43	1l	132	2% 61% 29% 8%
43	2l	132	6% 64% 25% 8%
44	1m	126	5% 60% 32% 6%
44	2m	126	18% 49% 42% 6%
45	1n	61	3% 57% 34% 7%
45	2n	61	48% 43% 49% 7%
46	1o	89	7% 63% 31%
46	2o	89	3% 62% 36%
47	1p	88	11% 56% 30% 8% 7%
47	2p	88	9% 61% 25% 7% 7%
48	1q	105	3% 68% 23% 6%
48	2q	105	6% 66% 27% 6%
49	1r	88	2% 50% 20% 7% 23%
49	2r	88	2% 42% 35% 23%
50	1s	93	8% 53% 31% 5% 11%
50	2s	93	20% 42% 45% 11%
51	1t	106	9% 57% 29% 9%
51	2t	106	11% 60% 27% 9%
52	1u	27	7% 37% 48% 15%

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Mol	Chain	Length	Quality of chain
52	2u	27	41% 56% 30% 15%
53	1v	24	4% 42% 8% 46%
53	2v	24	17% 38% 12% 46%
54	1w	76	12% 32% 45% 21%
54	2w	76	12% 21% 46% 24% 5%
55	1x	77	55% 36% 8%
55	2x	77	% 56% 36% 6%
56	1y	76	18% 26% 43% 24%
56	2y	76	26% 29% 49% 14%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	PSU	2y	55	-	-	X	-

2 Entry composition (i)

There are 61 unique types of molecules in this entry. The entry contains 300906 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 23S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2871	Total	C	N	O	P	0	0	0
			61854	27533	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60324	26850	11284	19390	2800			

- 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
			2577	1146	476	835	120			
2	2B	120	Total	C	N	O	P	0	0	0
			2575	1146	476	833	120			

- 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
			2136	1349	423	361	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
			1423	913	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1428	913	258	253	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	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	146	Total	C	N	O	S	0	0	0
			1097	701	191	204	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1064	681	186	196	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
			1117	719	207	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 873	C 550	N 174	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
			771	495	140	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
			806	517	152	131	6			
20	2Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	154	Total	C	N	O	S	0	0	0
			1240	795	222	220	3			
21	2Z	160	Total	C	N	O	S	0	0	0
			1271	814	228	227	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			
22	20	83	Total	C	N	O	S	0	0	0
			653	404	139	109	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
			755	475	148	131	1			
23	21	97	Total	C	N	O	S	0	0	0
			755	475	148	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
			588	365	118	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
			552	349	99	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			532	339	97	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
			455	285	89	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	1503	Total	C	N	O	P	0	0	0
			32327	14396	5990	10438	1503			

- 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
			1846	1179	331	331	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
			1548	973	301	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
			1655	1038	326	284	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1674	1050	333	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
			1129	714	213	198	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
			810	514	144	149	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
			1231	766	243	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1235	769	244	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
			1088	689	206	191	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
			983	623	193	167			
40	2i	127	Total	C	N	O	0	0	0
			978	619	190	169			

- 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
			709	440	138	131			
41	2j	96	Total	C	N	O	0	0	0
			714	445	138	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
			829	516	155	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	123	Total	C	N	O	S	0	0	0
			958	592	198	166	2			
44	2m	122	Total	C	N	O	S	0	0	0
			950	586	197	165	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
			652	417	120	113	2			
50	2s	83	Total	C	N	O	S	0	0	0
			646	412	119	113	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
			728	446	156	124	2			
51	2t	96	Total	C	N	O	S	0	0	0
			727	446	155	124	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 a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			
53	2v	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			

- Molecule 54 is a RNA chain called A-site tRNA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	74	Total	C	N	O	P	S	0	0	0
			1603	722	287	518	74	2			
54	2w	72	Total	C	N	O	P	S	0	0	0
			1555	699	280	502	72	2			

- Molecule 55 is a RNA chain called P-site tRNA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
55	1x	76	Total	C	N	O	P	S	0	0	0
			1635	731	296	530	76	2			
55	2x	76	Total	C	N	O	P	S	0	0	0
			1635	731	296	530	76	2			

- Molecule 56 is a RNA chain called E-site tRNA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
56	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
56	2y	73	Total	C	N	O	P	S	0	0	0
			1565	698	283	510	73	1			

- Molecule 57 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1A	1121	Total	Mg	0	0
			1121	1121		
57	1B	34	Total	Mg	0	0
			34	34		
57	1D	12	Total	Mg	0	0
			12	12		
57	1E	13	Total	Mg	0	0
			13	13		
57	1F	11	Total	Mg	0	0
			11	11		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	1G	5	Total Mg 5 5	0	0
57	1I	1	Total Mg 1 1	0	0
57	1N	5	Total Mg 5 5	0	0
57	1O	4	Total Mg 4 4	0	0
57	1P	4	Total Mg 4 4	0	0
57	1Q	7	Total Mg 7 7	0	0
57	1R	4	Total Mg 4 4	0	0
57	1S	3	Total Mg 3 3	0	0
57	1T	4	Total Mg 4 4	0	0
57	1U	9	Total Mg 9 9	0	0
57	1V	9	Total Mg 9 9	0	0
57	1W	6	Total Mg 6 6	0	0
57	1X	7	Total Mg 7 7	0	0
57	1Y	3	Total Mg 3 3	0	0
57	1Z	2	Total Mg 2 2	0	0
57	10	9	Total Mg 9 9	0	0
57	11	6	Total Mg 6 6	0	0
57	12	2	Total Mg 2 2	0	0
57	13	5	Total Mg 5 5	0	0
57	14	1	Total Mg 1 1	0	0
57	15	7	Total Mg 7 7	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	16	1	Total Mg 1 1	0	0
57	17	5	Total Mg 5 5	0	0
57	18	6	Total Mg 6 6	0	0
57	19	1	Total Mg 1 1	0	0
57	1a	219	Total Mg 219 219	0	0
57	1b	2	Total Mg 2 2	0	0
57	1d	1	Total Mg 1 1	0	0
57	1e	2	Total Mg 2 2	0	0
57	1f	2	Total Mg 2 2	0	0
57	1l	2	Total Mg 2 2	0	0
57	1m	2	Total Mg 2 2	0	0
57	1n	1	Total Mg 1 1	0	0
57	1t	1	Total Mg 1 1	0	0
57	1v	1	Total Mg 1 1	0	0
57	1w	10	Total Mg 10 10	0	0
57	1x	15	Total Mg 15 15	0	0
57	1y	3	Total Mg 3 3	0	0
57	2A	890	Total Mg 890 890	0	0
57	2B	20	Total Mg 20 20	0	0
57	2D	7	Total Mg 7 7	0	0
57	2E	5	Total Mg 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	2F	6	Total Mg 6 6	0	0
57	2G	1	Total Mg 1 1	0	0
57	2N	1	Total Mg 1 1	0	0
57	2O	2	Total Mg 2 2	0	0
57	2P	1	Total Mg 1 1	0	0
57	2Q	5	Total Mg 5 5	0	0
57	2R	2	Total Mg 2 2	0	0
57	2T	3	Total Mg 3 3	0	0
57	2U	2	Total Mg 2 2	0	0
57	2V	3	Total Mg 3 3	0	0
57	2W	2	Total Mg 2 2	0	0
57	2X	3	Total Mg 3 3	0	0
57	2Z	1	Total Mg 1 1	0	0
57	20	1	Total Mg 1 1	0	0
57	21	1	Total Mg 1 1	0	0
57	23	4	Total Mg 4 4	0	0
57	25	5	Total Mg 5 5	0	0
57	26	1	Total Mg 1 1	0	0
57	27	1	Total Mg 1 1	0	0
57	28	3	Total Mg 3 3	0	0
57	2a	238	Total Mg 238 238	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	2d	2	Total Mg 2 2	0	0
57	2e	1	Total Mg 1 1	0	0
57	2f	2	Total Mg 2 2	0	0
57	2g	1	Total Mg 1 1	0	0
57	2j	2	Total Mg 2 2	0	0
57	2l	3	Total Mg 3 3	0	0
57	2q	3	Total Mg 3 3	0	0
57	2r	1	Total Mg 1 1	0	0
57	2t	1	Total Mg 1 1	0	0
57	2v	4	Total Mg 4 4	0	0
57	2w	9	Total Mg 9 9	0	0
57	2x	5	Total Mg 5 5	0	0
57	2y	6	Total Mg 6 6	0	0

- Molecule 58 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1A	1	Total K 1 1	0	0
58	2A	1	Total K 1 1	0	0

- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1Y	1	Total Zn 1 1	0	0
59	14	1	Total Zn 1 1	0	0

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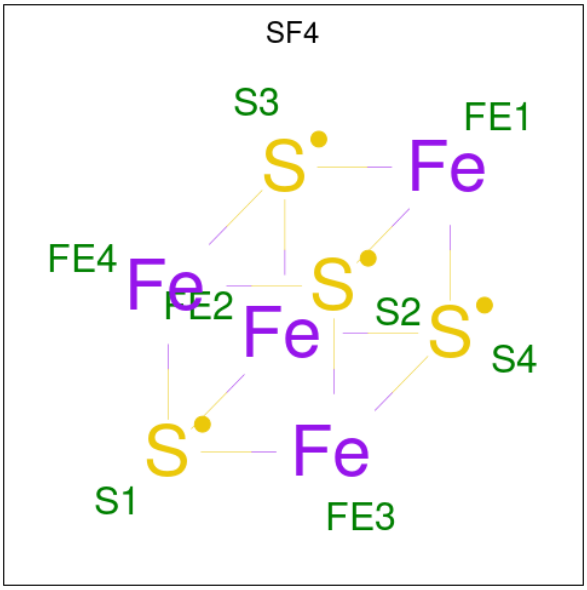
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	15	1	Total Zn 1 1	0	0
59	16	1	Total Zn 1 1	0	0
59	19	1	Total Zn 1 1	0	0
59	1n	1	Total Zn 1 1	0	0
59	2Y	1	Total Zn 1 1	0	0
59	24	1	Total Zn 1 1	0	0
59	25	1	Total Zn 1 1	0	0
59	26	1	Total Zn 1 1	0	0
59	29	1	Total Zn 1 1	0	0
59	2n	1	Total Zn 1 1	0	0

- Molecule 60 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1d	1	Total Fe S 8 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	2d	1	Total Fe S 8 4 4	0	0

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	2266	Total O 2266 2266	0	0
61	1B	69	Total O 69 69	0	0
61	1D	25	Total O 25 25	0	0
61	1E	26	Total O 26 26	0	0
61	1F	19	Total O 19 19	0	0
61	1G	7	Total O 7 7	0	0
61	1H	2	Total O 2 2	0	0
61	1N	7	Total O 7 7	0	0
61	1O	6	Total O 6 6	0	0
61	1P	24	Total O 24 24	0	0
61	1Q	9	Total O 9 9	0	0
61	1R	15	Total O 15 15	0	0
61	1S	6	Total O 6 6	0	0
61	1T	8	Total O 8 8	0	0
61	1U	9	Total O 9 9	0	0
61	1V	8	Total O 8 8	0	0
61	1W	6	Total O 6 6	0	0
61	1X	8	Total O 8 8	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1Y	4	Total O 4 4	0	0
61	1Z	1	Total O 1 1	0	0
61	10	14	Total O 14 14	0	0
61	11	11	Total O 11 11	0	0
61	12	4	Total O 4 4	0	0
61	13	6	Total O 6 6	0	0
61	14	1	Total O 1 1	0	0
61	15	5	Total O 5 5	0	0
61	16	5	Total O 5 5	0	0
61	17	7	Total O 7 7	0	0
61	18	9	Total O 9 9	0	0
61	19	1	Total O 1 1	0	0
61	1a	410	Total O 410 410	0	0
61	1b	1	Total O 1 1	0	0
61	1d	1	Total O 1 1	0	0
61	1e	1	Total O 1 1	0	0
61	1i	1	Total O 1 1	0	0
61	1l	7	Total O 7 7	0	0
61	1m	3	Total O 3 3	0	0
61	1o	2	Total O 2 2	0	0
61	1p	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1q	2	Total O 2 2	0	0
61	1u	1	Total O 1 1	0	0
61	1v	6	Total O 6 6	0	0
61	1w	21	Total O 21 21	0	0
61	1x	15	Total O 15 15	0	0
61	1y	2	Total O 2 2	0	0
61	2A	1381	Total O 1381 1381	0	0
61	2B	24	Total O 24 24	0	0
61	2D	25	Total O 25 25	0	0
61	2E	16	Total O 16 16	0	0
61	2F	13	Total O 13 13	0	0
61	2I	2	Total O 2 2	0	0
61	2N	1	Total O 1 1	0	0
61	2O	2	Total O 2 2	0	0
61	2P	16	Total O 16 16	0	0
61	2Q	3	Total O 3 3	0	0
61	2R	3	Total O 3 3	0	0
61	2T	4	Total O 4 4	0	0
61	2U	4	Total O 4 4	0	0
61	2V	1	Total O 1 1	0	0
61	2W	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2X	5	Total O 5 5	0	0
61	2Y	1	Total O 1 1	0	0
61	2Z	2	Total O 2 2	0	0
61	20	3	Total O 3 3	0	0
61	21	12	Total O 12 12	0	0
61	22	2	Total O 2 2	0	0
61	23	2	Total O 2 2	0	0
61	25	6	Total O 6 6	0	0
61	27	3	Total O 3 3	0	0
61	28	6	Total O 6 6	0	0
61	29	1	Total O 1 1	0	0
61	2a	366	Total O 366 366	0	0
61	2d	3	Total O 3 3	0	0
61	2e	3	Total O 3 3	0	0
61	2g	1	Total O 1 1	0	0
61	2i	1	Total O 1 1	0	0
61	2j	4	Total O 4 4	0	0
61	2l	6	Total O 6 6	0	0
61	2o	2	Total O 2 2	0	0
61	2p	3	Total O 3 3	0	0
61	2q	1	Total O 1 1	0	0

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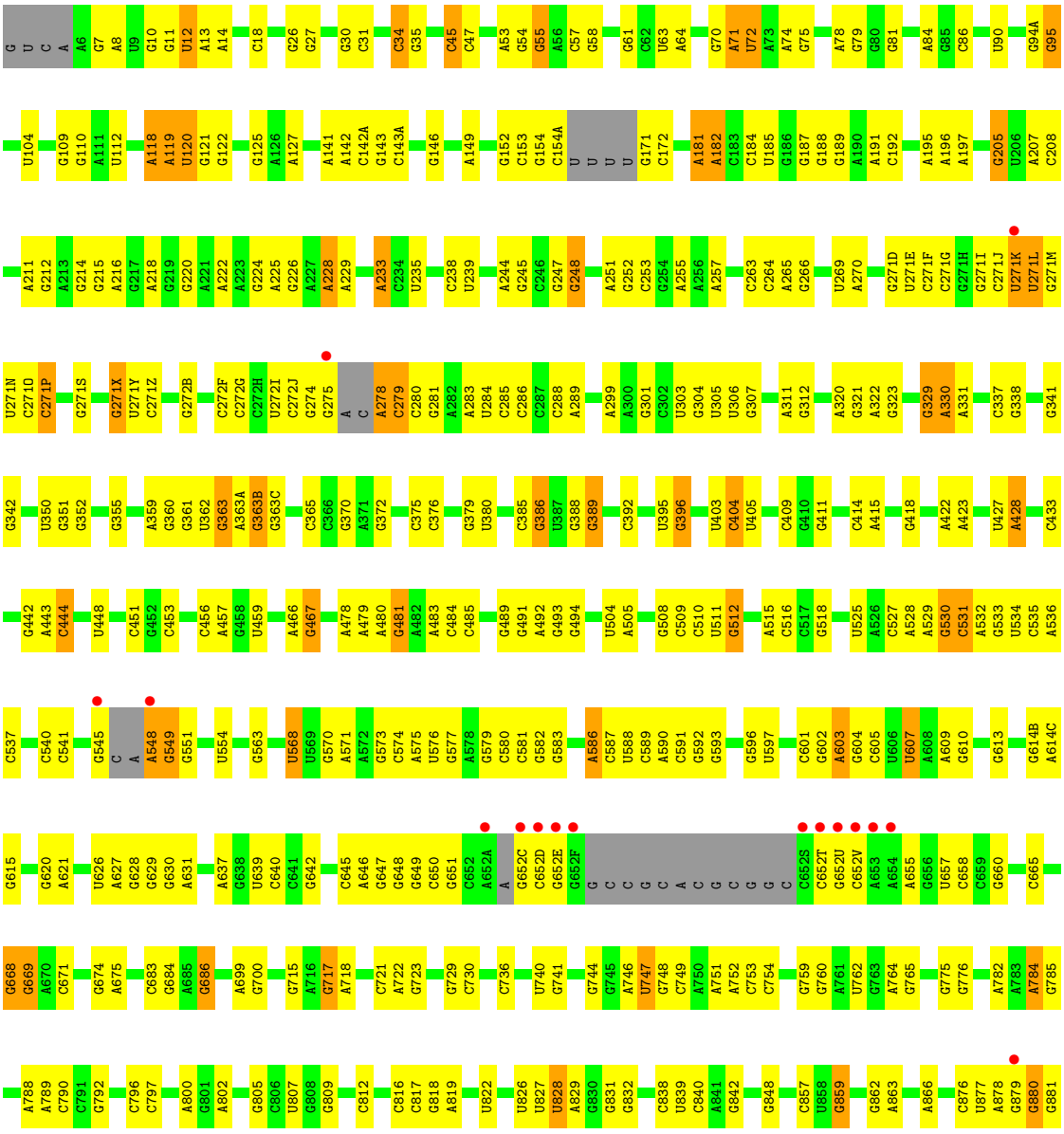
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2r	1	Total O 1 1	0	0
61	2t	3	Total O 3 3	0	0
61	2v	2	Total O 2 2	0	0
61	2w	1	Total O 1 1	0	0
61	2x	9	Total O 9 9	0	0
61	2y	20	Total O 20 20	0	0

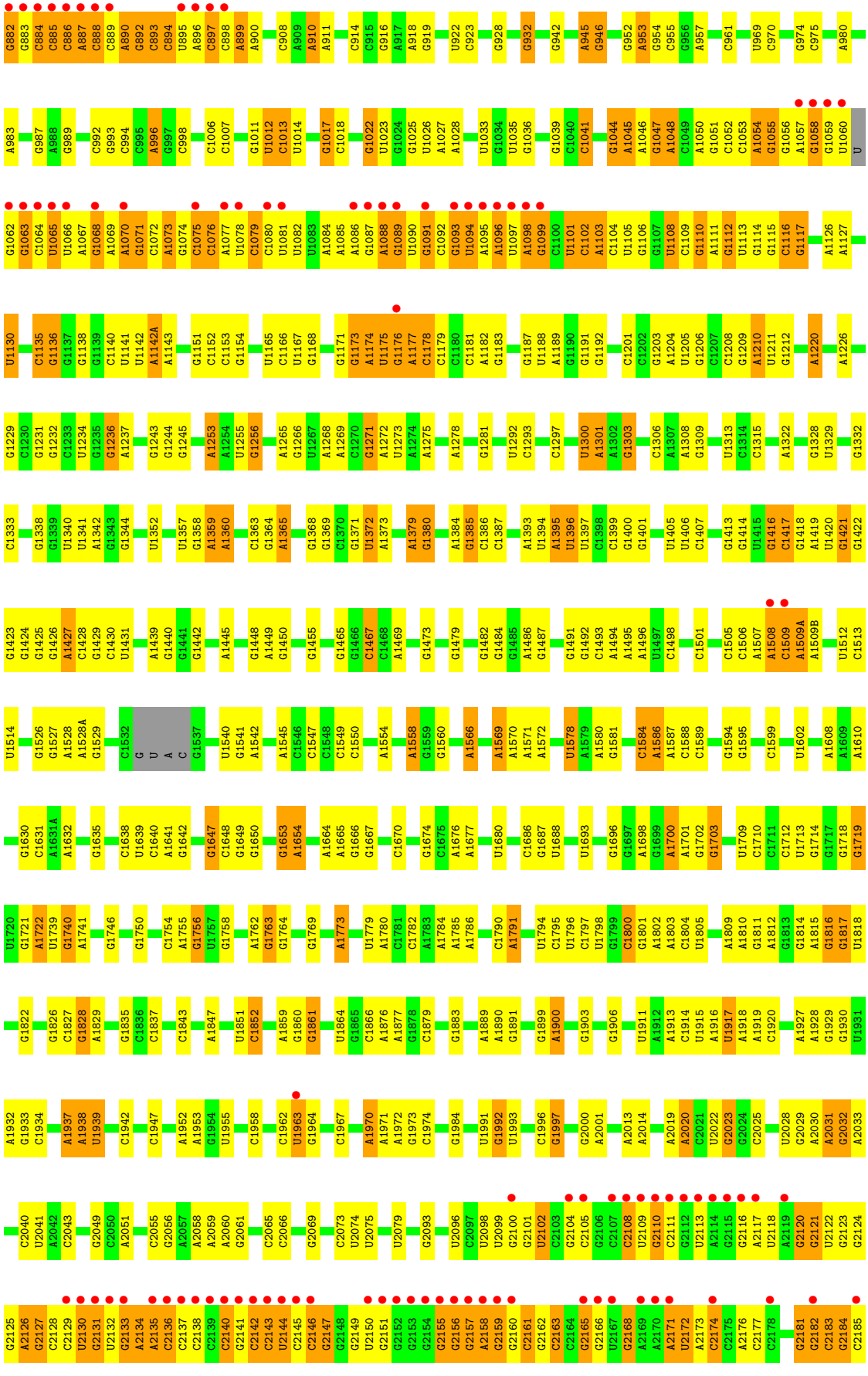
3 Residue-property plots (i)

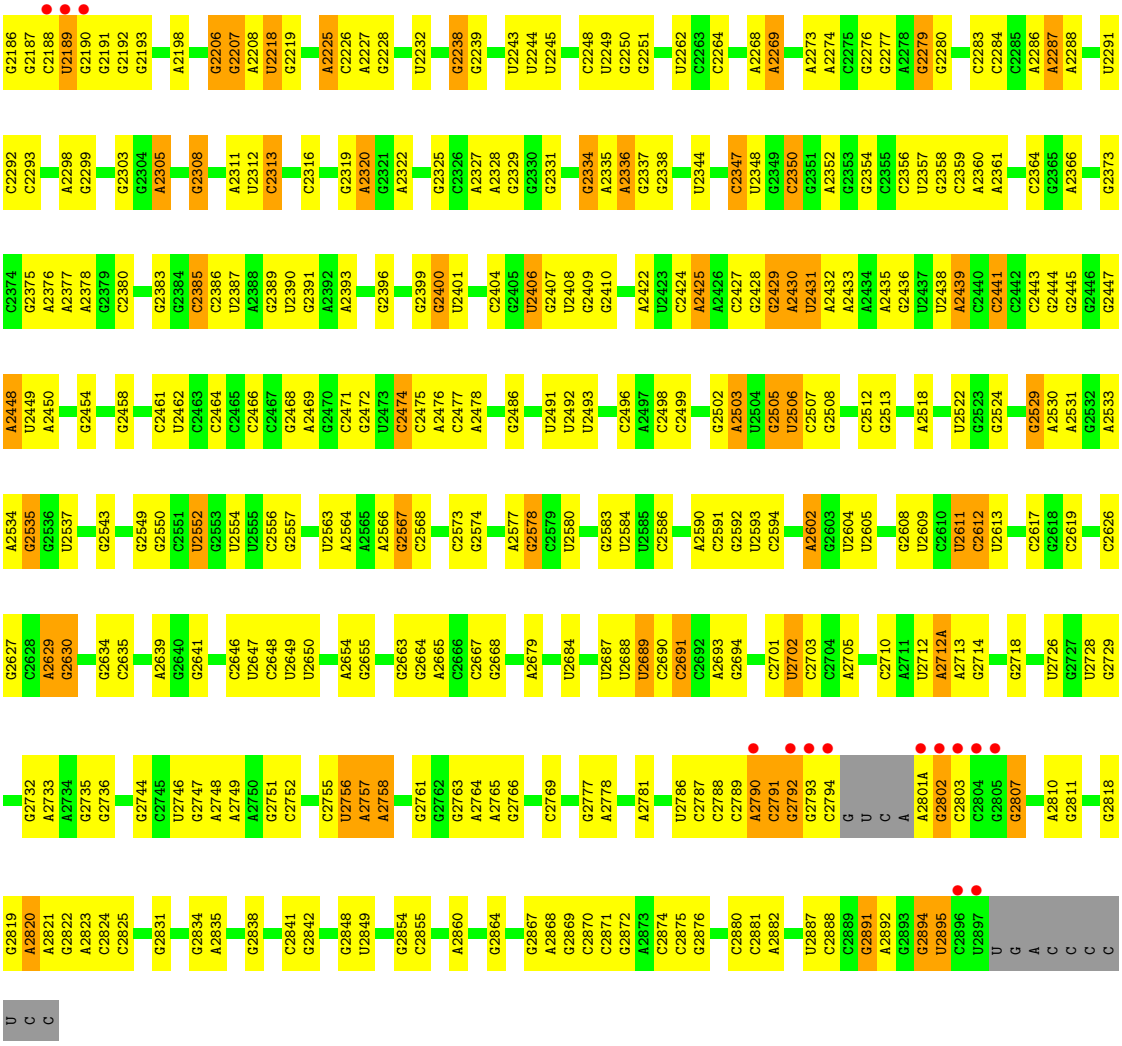
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

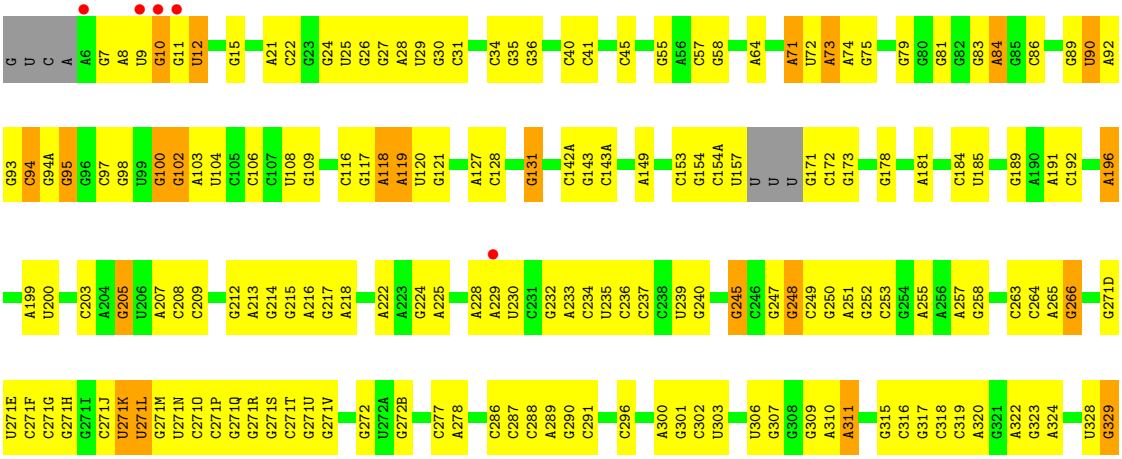


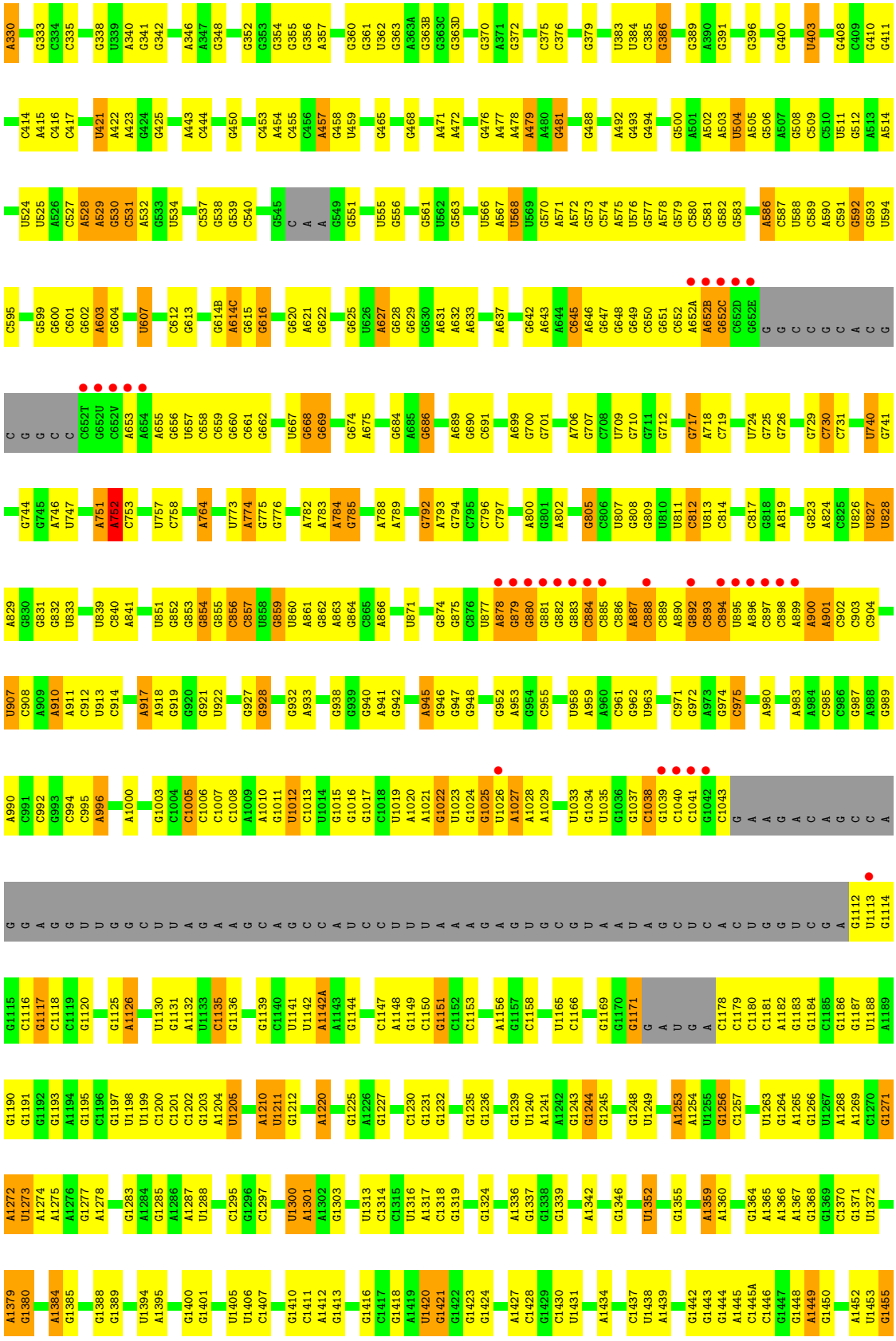




• Molecule 1: 23S Ribosomal RNA

Chain 2A:

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A1272 U1273 A1274 A1275 A1276 G1277 A1278 G1283 A1284 G1285 A1286 A1287 U1288 C1295 G1296 C1297 U1300 A1301 A1302 G1303 U1313 C1314 C1315 U1316 A1317 C1318 G1319 G1324 A1336 G1337 G1338 G1339 A1342 G1346 U1352 G1355 A1359 A1360 G1364 A1365 A1366 A1367 G1368 G1369 C1370 G1371 U1372
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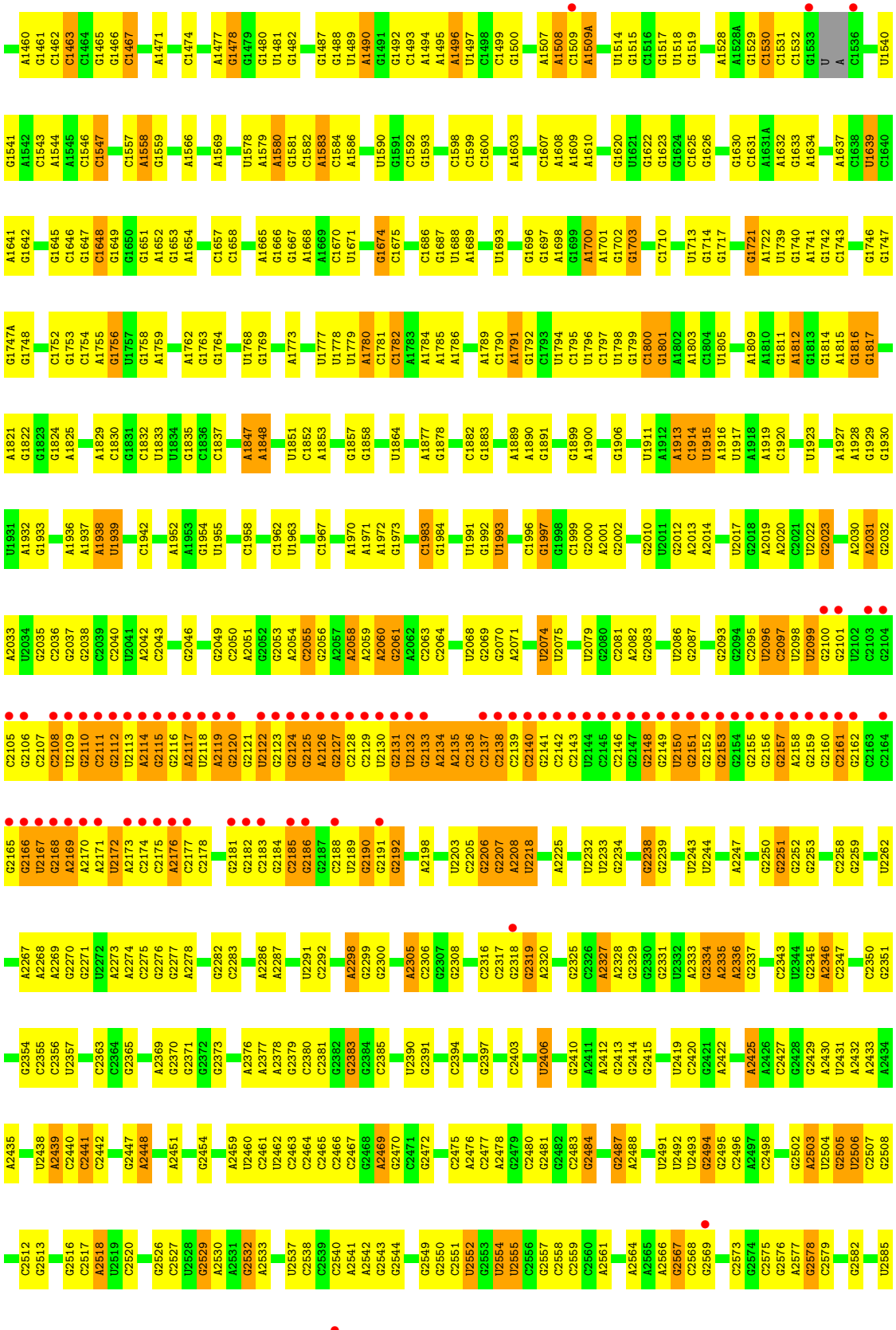
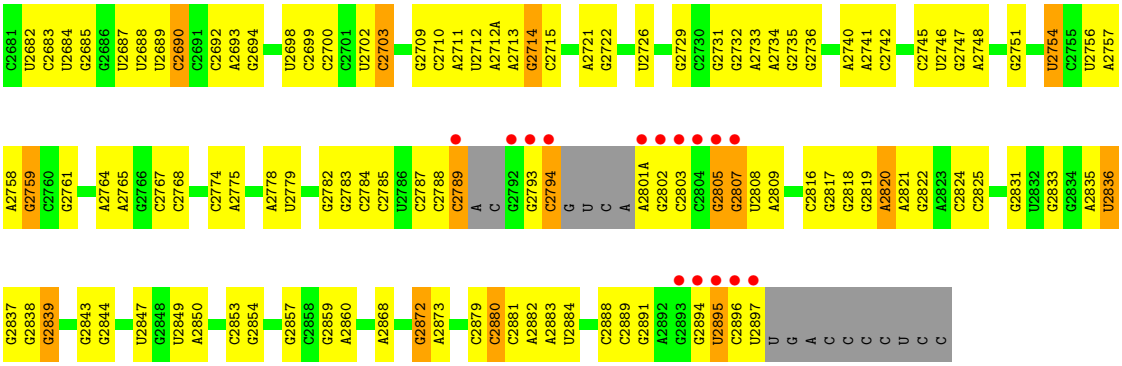
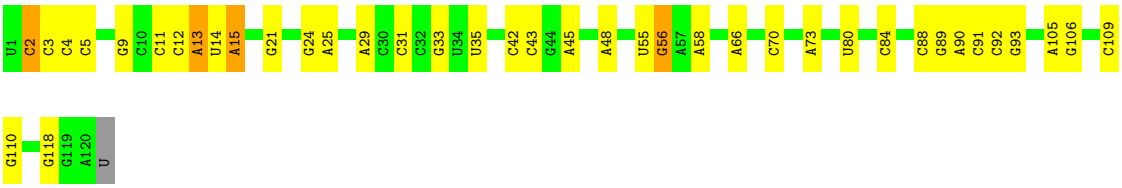




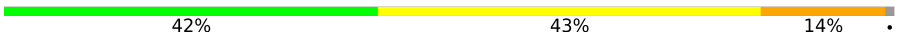
• Molecule 2: 5S Ribosomal RNA

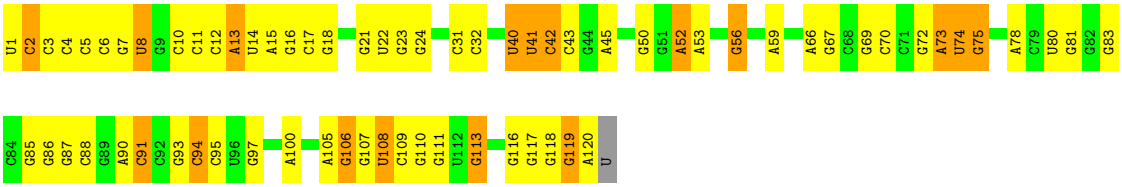
Chain 1B:



• Molecule 2: 5S Ribosomal RNA

Chain 2B:



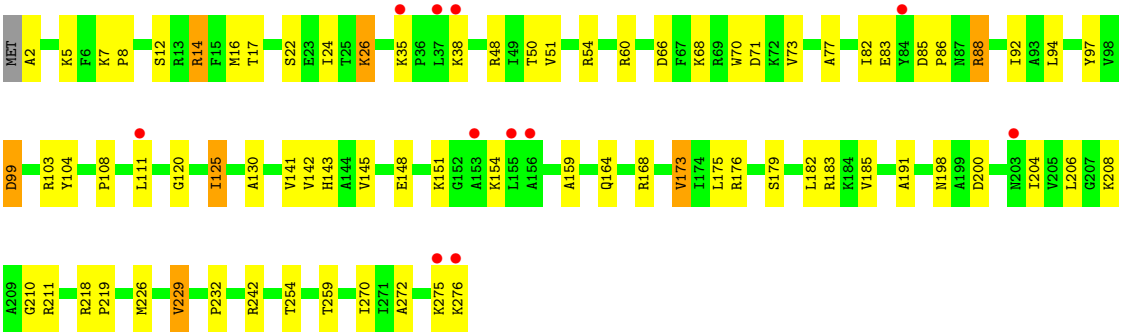


• Molecule 3: 50S ribosomal protein L2

Chain 1D:

• Molecule 3: 50S ribosomal protein L2

Chain 2D:

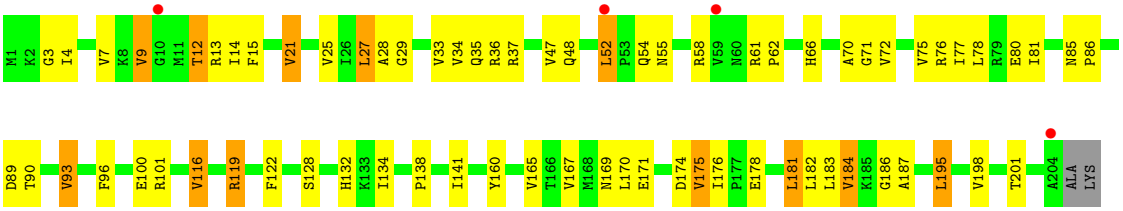


• Molecule 4: 50S ribosomal protein L3

Chain 1E:

• Molecule 4: 50S ribosomal protein L3

Chain 2E:

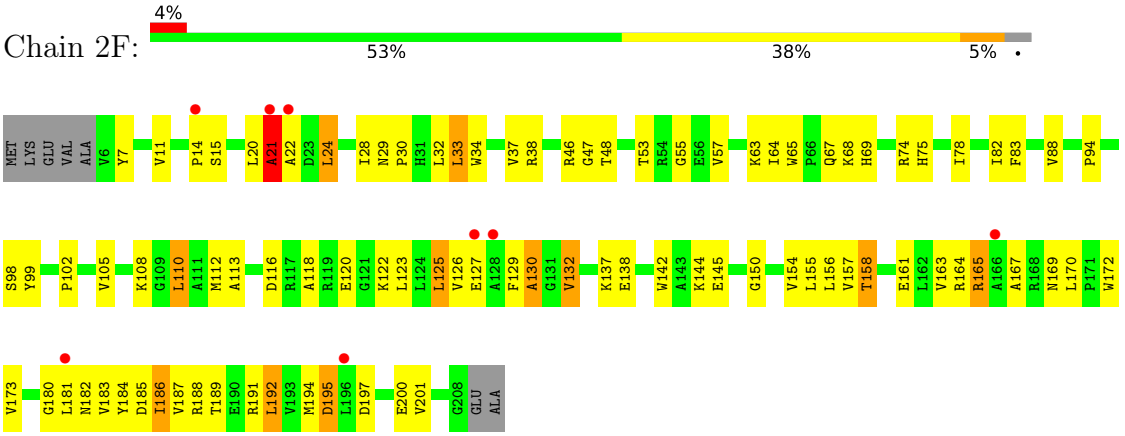


• Molecule 5: 50S ribosomal protein L4

Chain 1F:

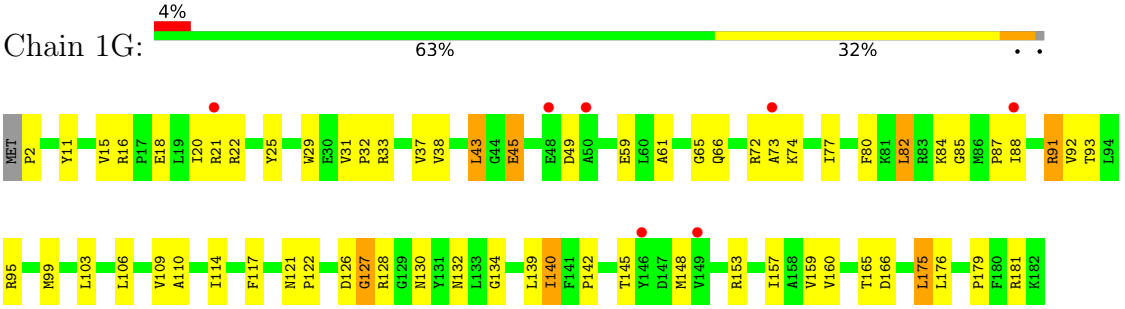
• Molecule 5: 50S ribosomal protein L4

Chain 2F:



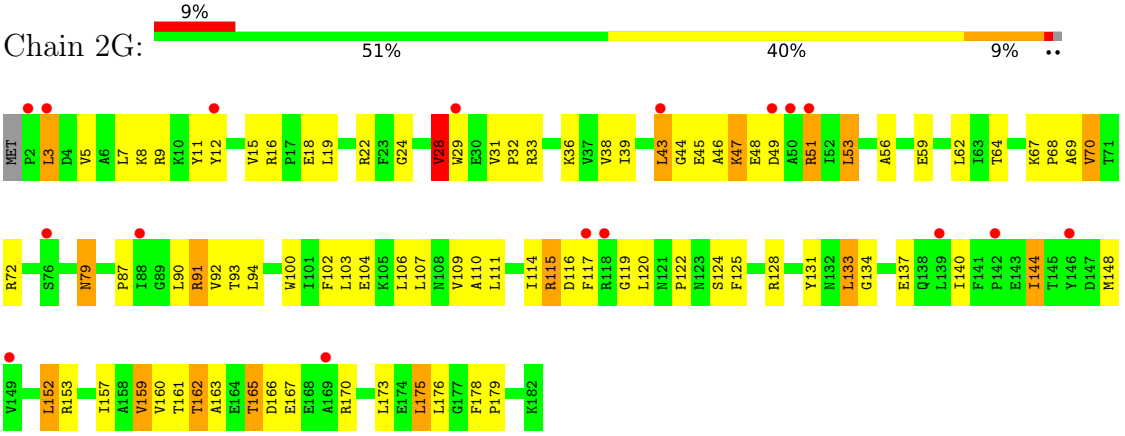
• Molecule 6: 50S ribosomal protein L5

Chain 1G:



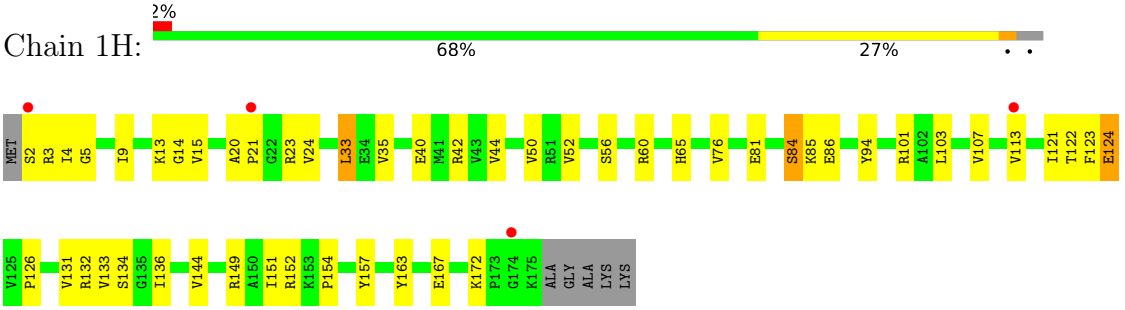
• Molecule 6: 50S ribosomal protein L5

Chain 2G:



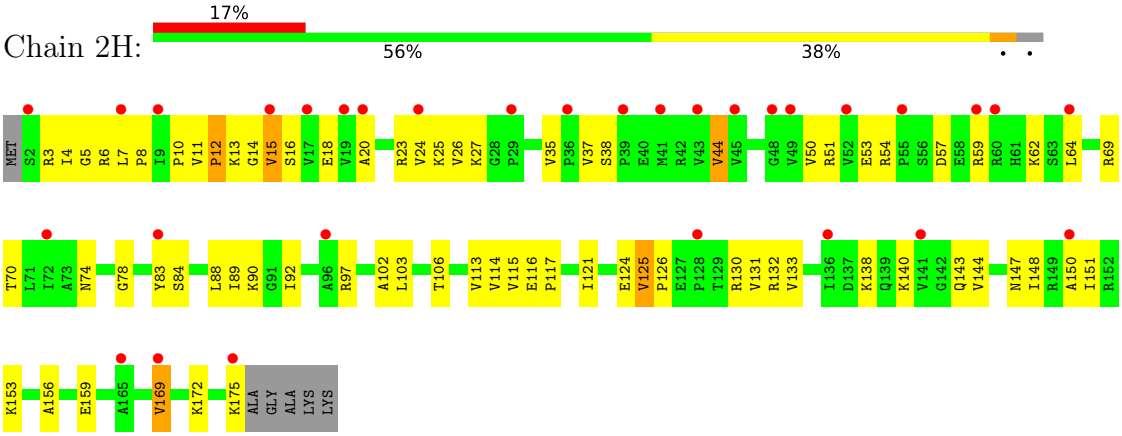
• Molecule 7: 50S ribosomal protein L6

Chain 1H:



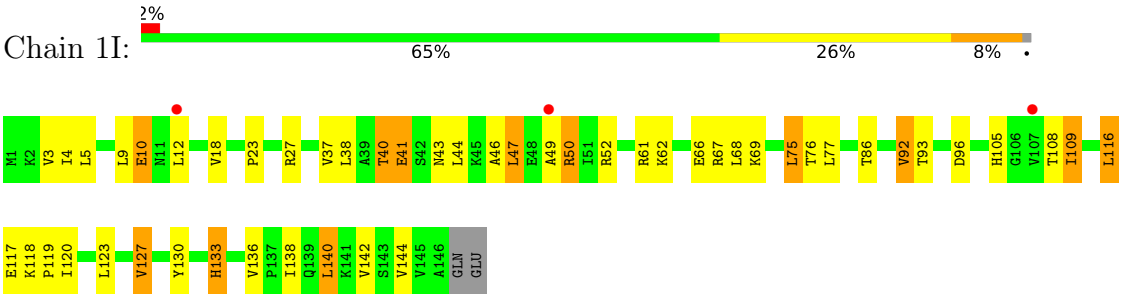
• Molecule 7: 50S ribosomal protein L6

Chain 2H:



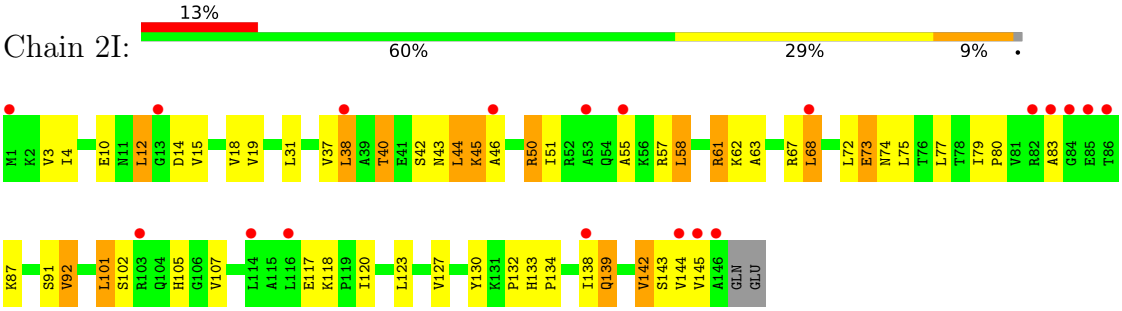
• Molecule 8: 50S ribosomal protein L9

Chain 1I:



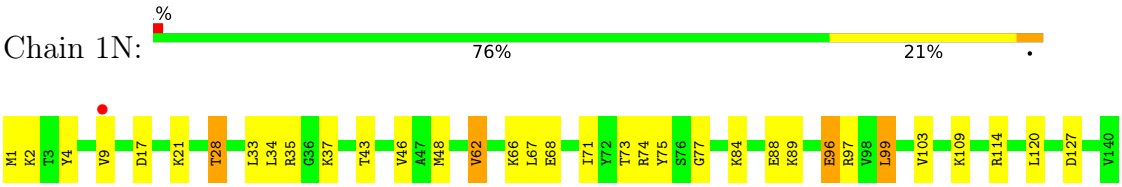
• Molecule 8: 50S ribosomal protein L9

Chain 2I:



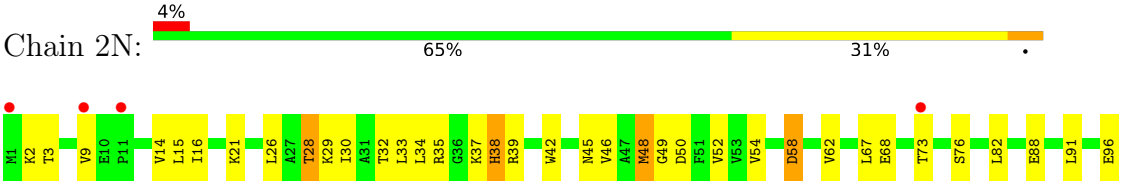
• Molecule 9: 50S ribosomal protein L13

Chain 1N:



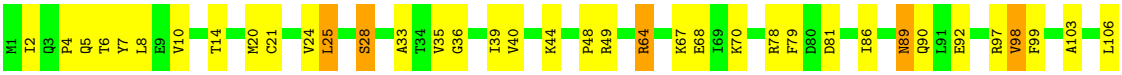
• Molecule 9: 50S ribosomal protein L13

Chain 2N:



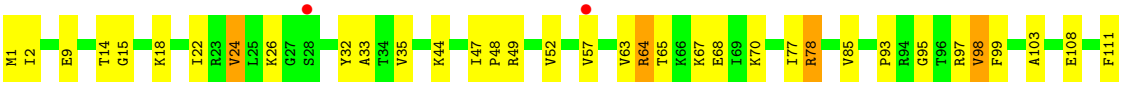
• Molecule 10: 50S ribosomal protein L14

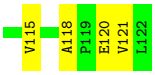
Chain 1O:



• Molecule 10: 50S ribosomal protein L14

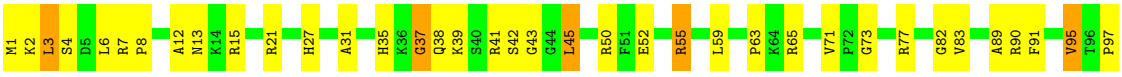
Chain 2O:





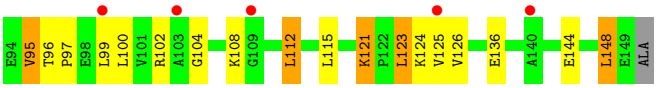
• Molecule 11: 50S ribosomal protein L15

Chain 1P:



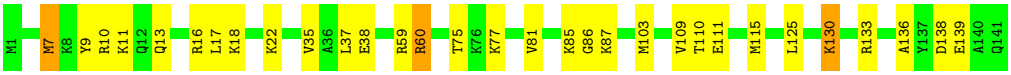
• Molecule 11: 50S ribosomal protein L15

Chain 2P:



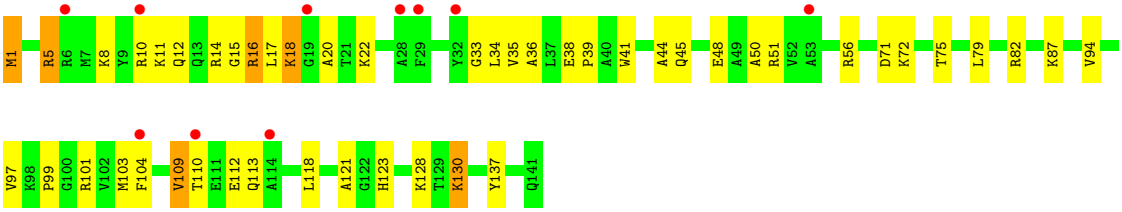
• Molecule 12: 50S ribosomal protein L16

Chain 1Q:



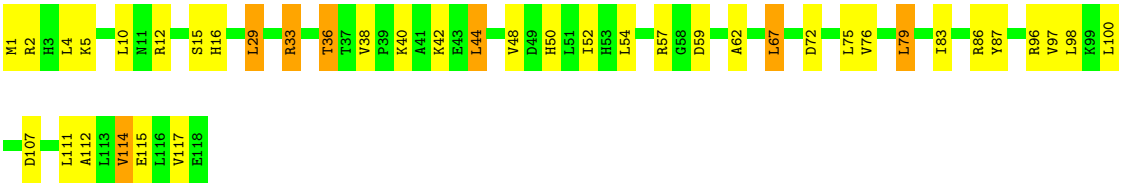
• Molecule 12: 50S ribosomal protein L16

Chain 2Q:



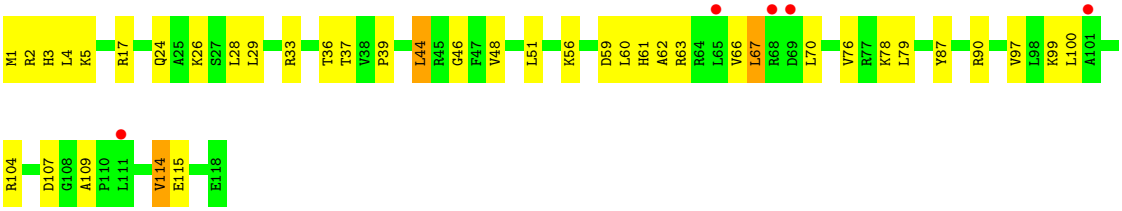
• Molecule 13: 50S ribosomal protein L17

Chain 1R:



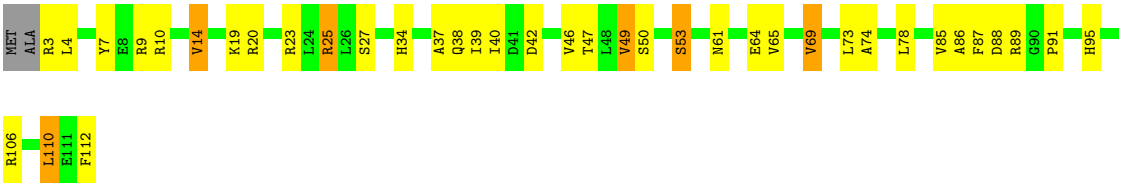
• Molecule 13: 50S ribosomal protein L17

Chain 2R:



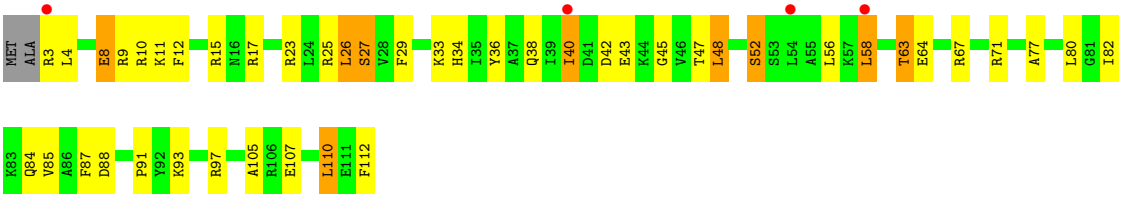
• Molecule 14: 50S ribosomal protein L18

Chain 1S:

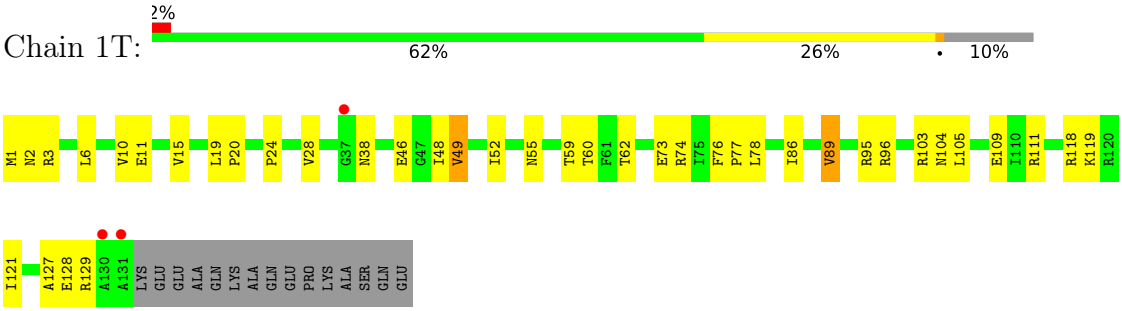


• Molecule 14: 50S ribosomal protein L18

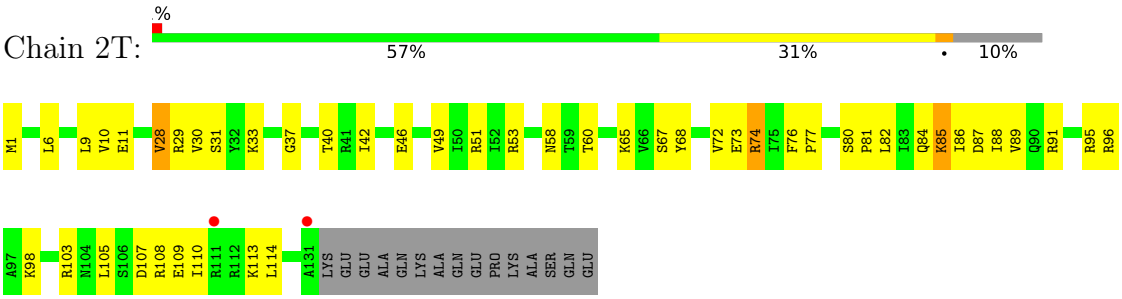
Chain 2S:



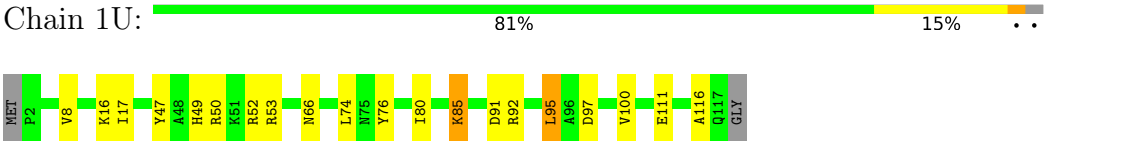
• Molecule 15: 50S ribosomal protein L19



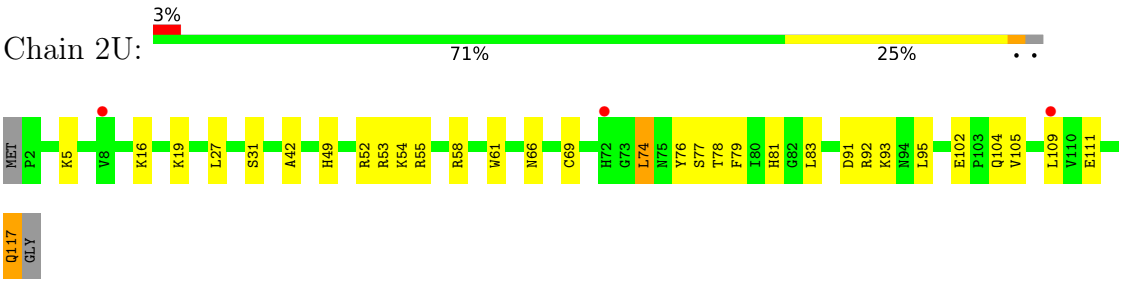
• Molecule 15: 50S ribosomal protein L19



• Molecule 16: 50S ribosomal protein L20

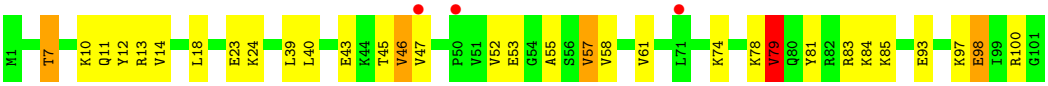


• Molecule 16: 50S ribosomal protein L20



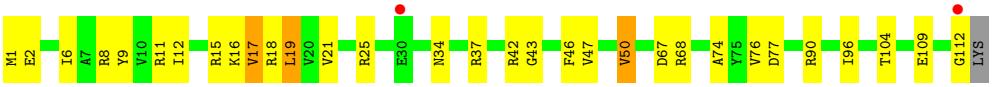
• Molecule 17: 50S ribosomal protein L21

• Molecule 17: 50S ribosomal protein L21

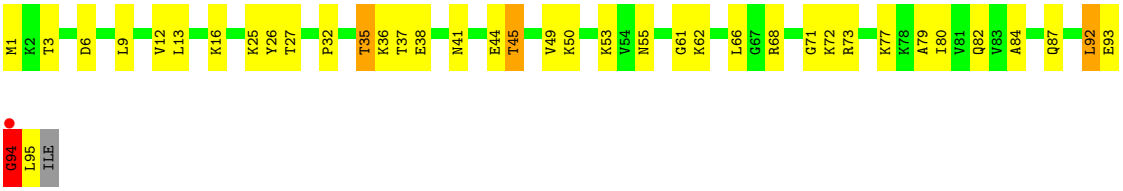


• Molecule 18: 50S ribosomal protein L22

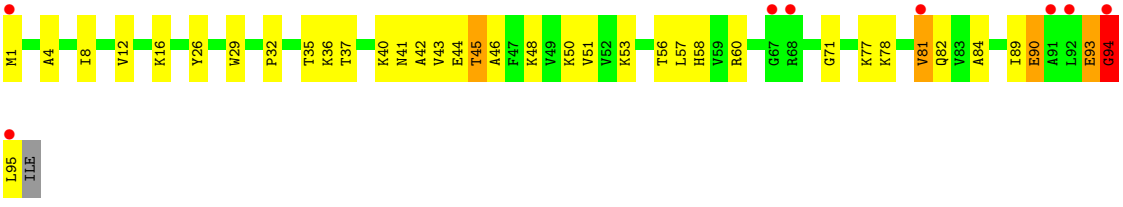
• Molecule 18: 50S ribosomal protein L22



• Molecule 19: 50S ribosomal protein L23



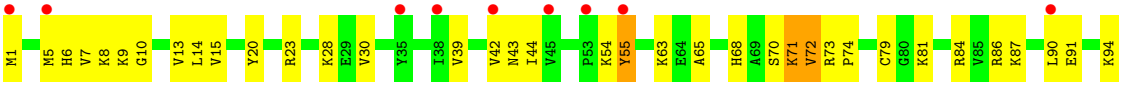
• Molecule 19: 50S ribosomal protein L23

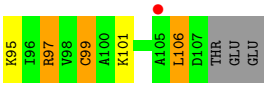


• Molecule 20: 50S ribosomal protein L24

• Molecule 20: 50S ribosomal protein L24

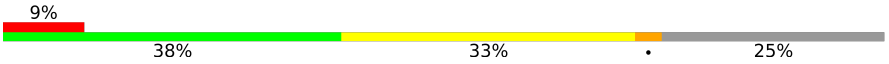
Chain 2Y:

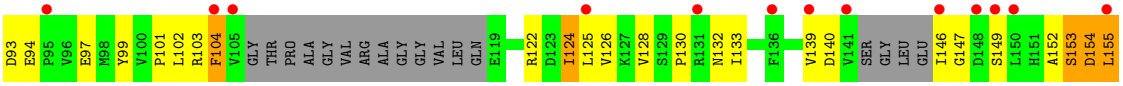


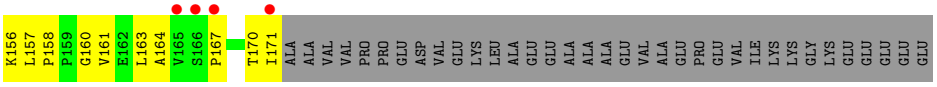


• Molecule 21: 50S ribosomal protein L25

Chain 1Z:

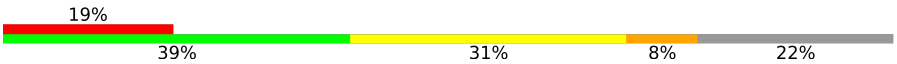


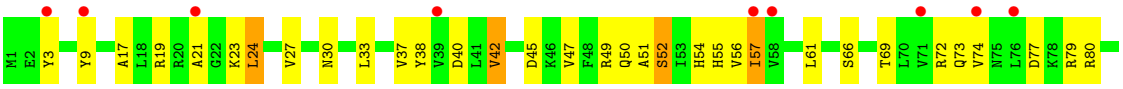


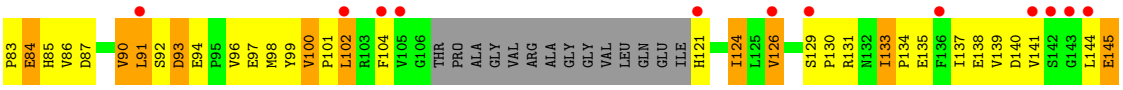


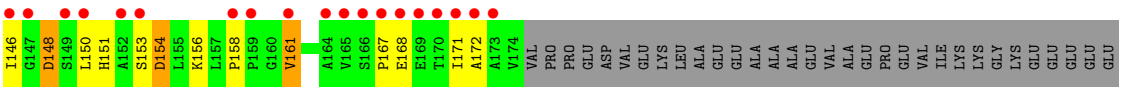
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:



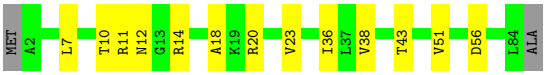






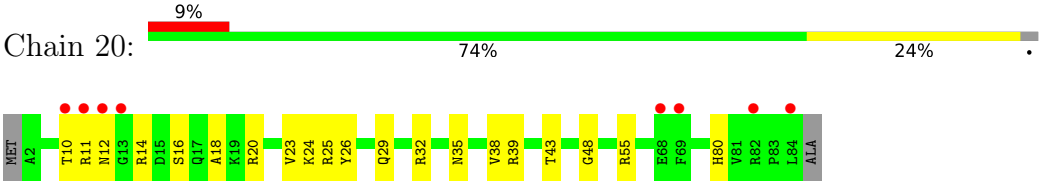
• Molecule 22: 50S ribosomal protein L27

Chain 10:



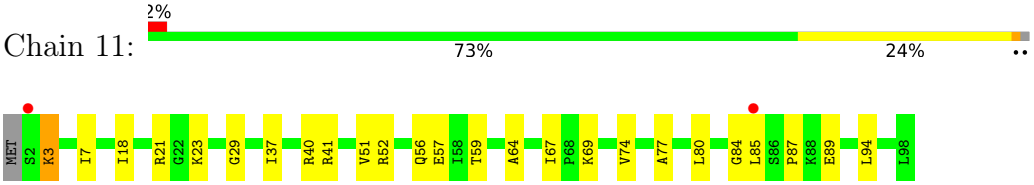
• Molecule 22: 50S ribosomal protein L27

Chain 20:



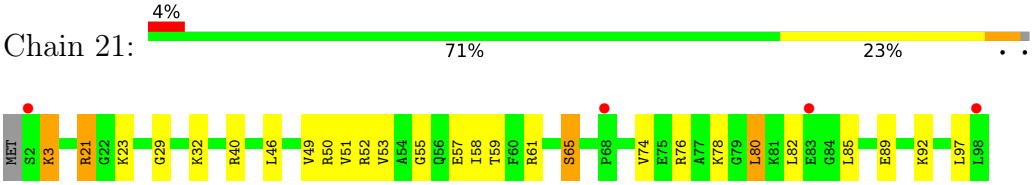
• Molecule 23: 50S ribosomal protein L28

Chain 11:



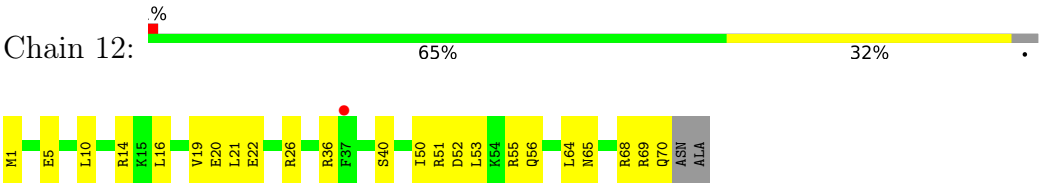
• Molecule 23: 50S ribosomal protein L28

Chain 21:



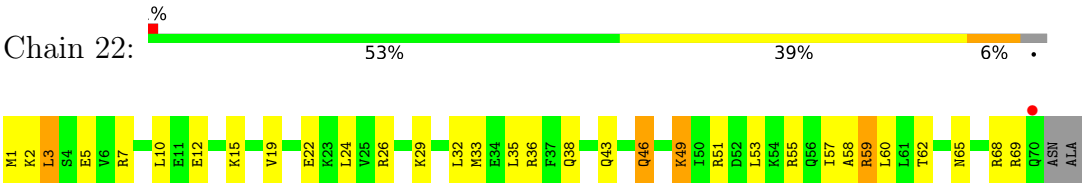
• Molecule 24: 50S ribosomal protein L29

Chain 12:



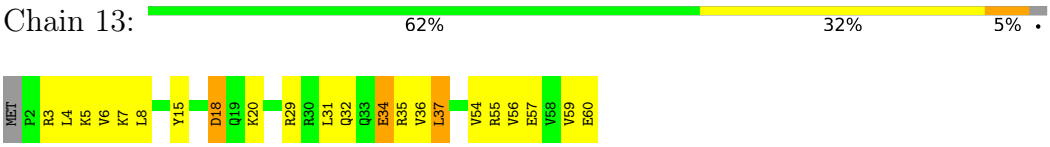
• Molecule 24: 50S ribosomal protein L29

Chain 22:



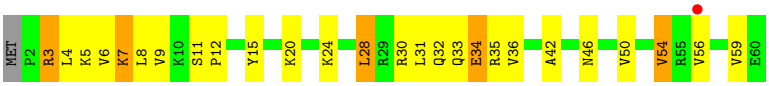
• Molecule 25: 50S ribosomal protein L30

Chain 13:

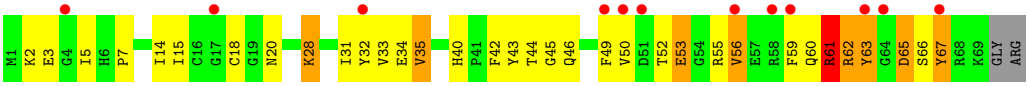


• Molecule 25: 50S ribosomal protein L30

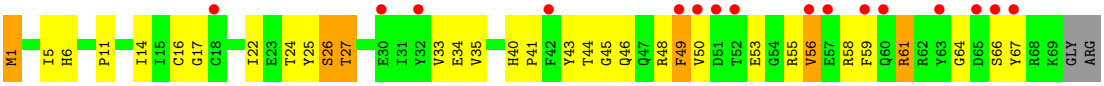
Chain 23:



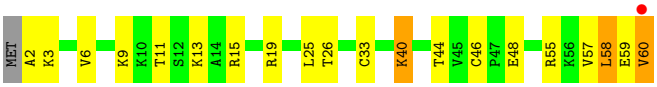
• Molecule 26: 50S ribosomal protein L31



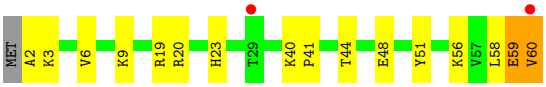
• Molecule 26: 50S ribosomal protein L31



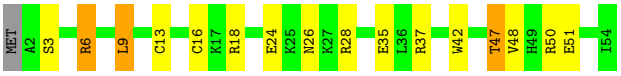
• Molecule 27: 50S ribosomal protein L32



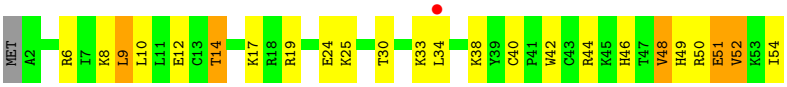
• Molecule 27: 50S ribosomal protein L32



• Molecule 28: 50S ribosomal protein L33

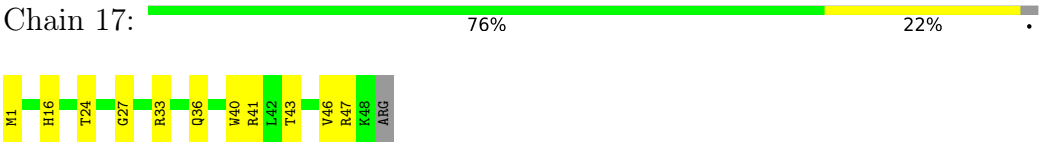


• Molecule 28: 50S ribosomal protein L33



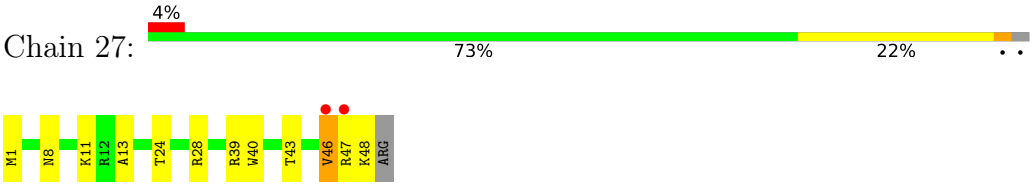
• Molecule 29: 50S ribosomal protein L34

Chain 17:



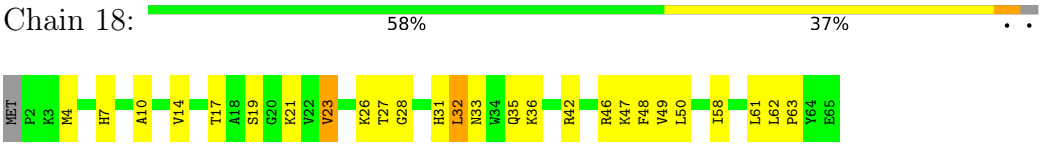
• Molecule 29: 50S ribosomal protein L34

Chain 27:



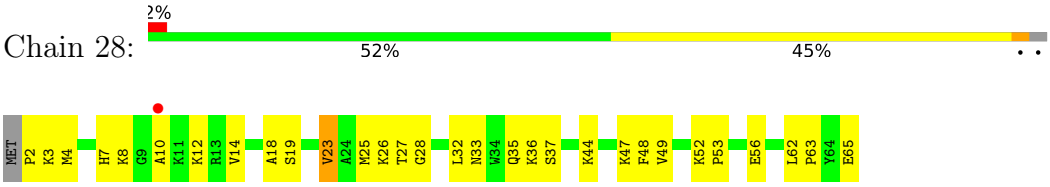
• Molecule 30: 50S ribosomal protein L35

Chain 18:



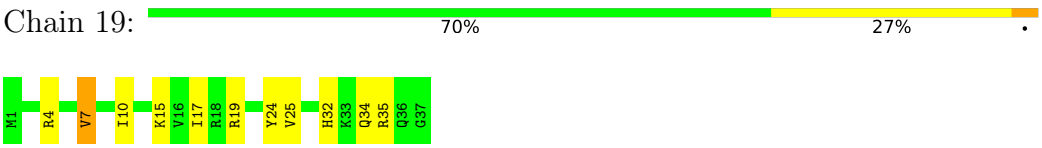
• Molecule 30: 50S ribosomal protein L35

Chain 28:



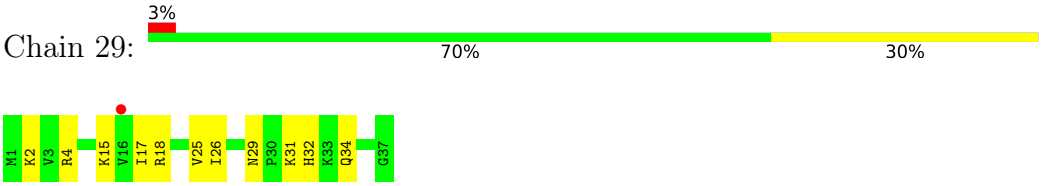
• Molecule 31: 50S ribosomal protein L36

Chain 19:



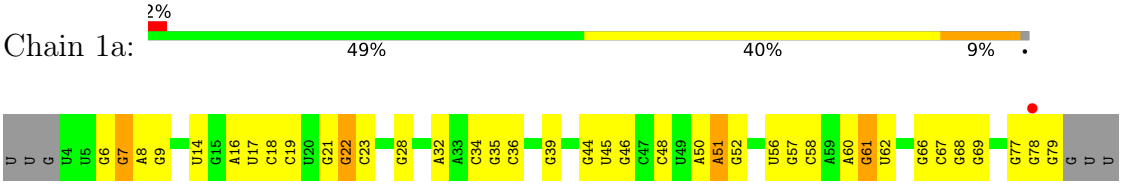
• Molecule 31: 50S ribosomal protein L36

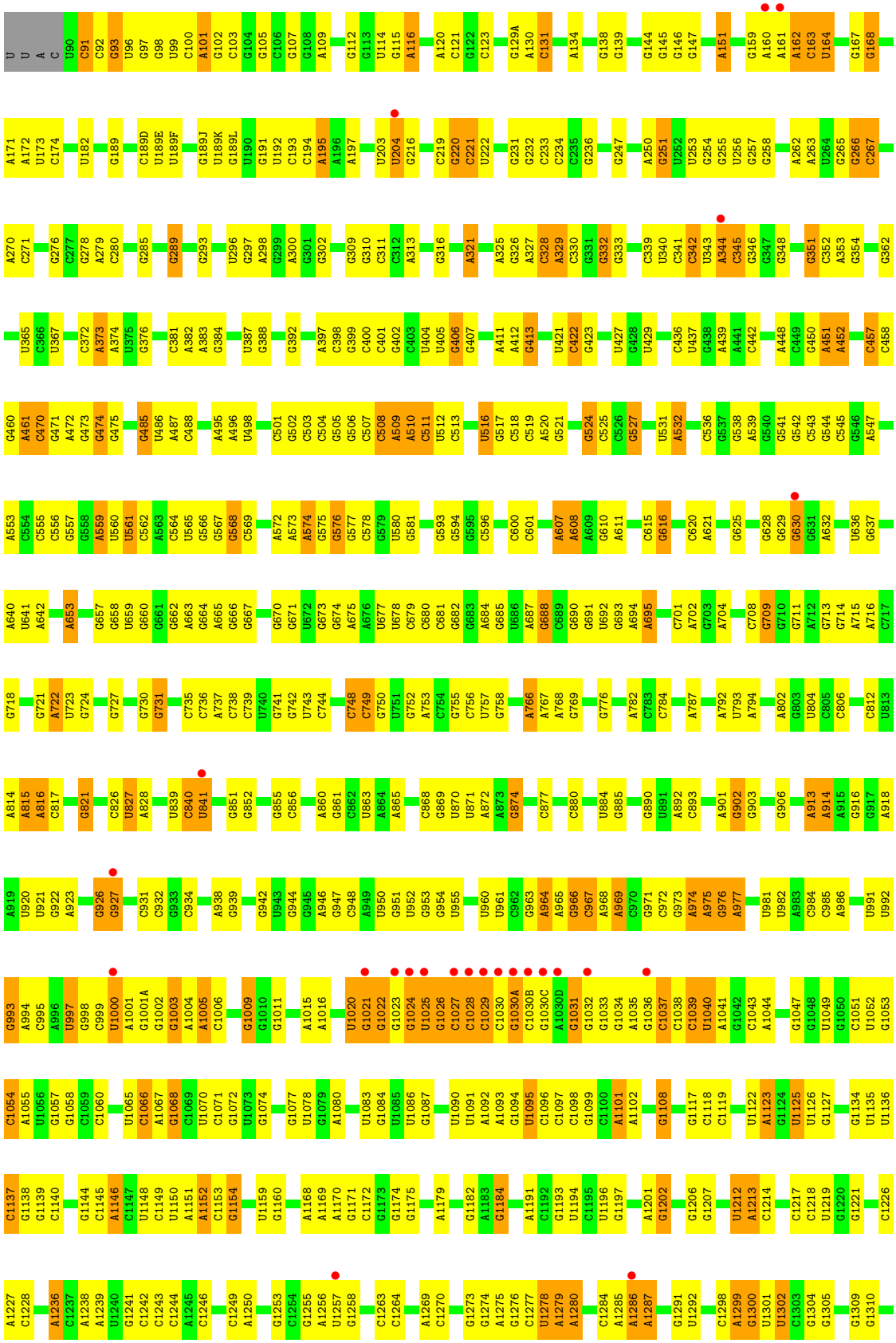
Chain 29:



• Molecule 32: 16S Ribosomal RNA

Chain 1a:




U
U
A
C
U90 C91 C92 G93 U96 G97 G98 U99 C100 A101 G102 C103 G104 G105 C106 G107 G108 A109 G112 G113 U114 G115 A116 A120 C121 G122 C123 G129A A130 C131 A134 G138 G139 G144 G145 G146 G147 A151 G159 A160 A161 A162 C163 U164 G167 G168
A171 A172 U173 C174 U182 G189 C189D U189E U189F G189J U189K G189L U190 G191 U192 C193 C194 A195 A196 A197 U203 U204 G216 C219 G220 C221 U222 G231 G232 C233 C234 C235 G236 G247 A250 G251 U252 U253 G254 G255 U256 G257 G258 A262 A263 U264 G265 G266 C267
A270 C271 G276 C277 G278 A279 C280 G285 G289 G293 U296 G297 A298 G299 A300 G301 G302 G309 G310 C311 C312 A313 G316 A321 A325 G326 A327 C328 A329 C330 G331 G332 G333 C339 U340 C341 C342 U343 A344 C345 G346 G347 G348 G351 C352 A353 G354 G362
U365 C366 U367 C372 A373 A374 U375 G376 C381 A382 A383 G384 U387 G388 G392 A397 C398 G399 C400 C401 G402 C403 U404 U405 G406 G407 A411 A412 G413 U421 C422 G423 U427 G428 U429 C436 U437 G438 A439 A441 C442 A448 C449 G450 A451 A452 C457 C458
G460 A461 C470 G471 A472 G473 G474 G475 G485 U486 A487 C488 A495 A496 U498 C501 G502 C503 C504 G505 G506 C507 C508 A509 A510 C511 U512 C513 U516 G517 C518 C519 A520 G521 G524 C525 G526 G527 U531 A532 C536 G537 G538 A539 G540 G541 G542 G543 G544 C545 G546 A547
A553 G554 C555 C556 G557 G558 A559 U560 U561 C562 A563 C564 U565 G566 G567 G568 C569 A572 A573 A574 G575 G576 G577 C578 G579 U580 G581 G593 G594 G595 C596 C600 C601 A607 A608 A609 G610 A611 C615 G616 C620 A621 G625 G628 G629 G630 G631 A632 U636 G637
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G718 G721 A722 U723 G724 G727 G730 G731 C735 C736 A737 C738 C739 U740 G741 G742 U743 C744 G748 C749 G750 U751 G752 A753 G754 G755 C756 U757 G758 A766 A767 A768 G769 G776 A782 C783 C784 A787 A792 U793 A794 A802 G803 U804 C805 C806 C812 U813
A814 A815 A816 C817 G821 C826 U827 A828 U839 C840 U841 G851 G852 G855 C856 A860 G861 C862 U863 A864 A865 C868 C869 U870 U871 A872 A873 G874 C877 C880 U884 G885 G890 U891 A892 C893 A901 G902 G903 G906 A913 A914 A915 G916 G917 A918
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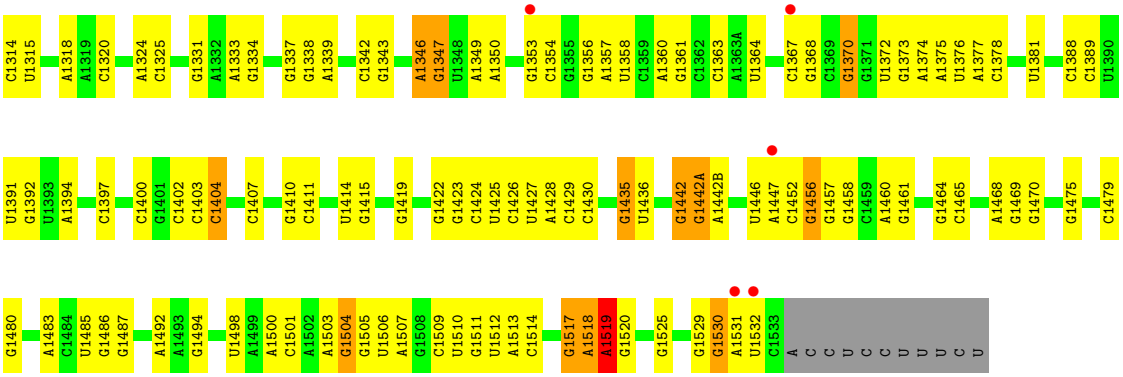
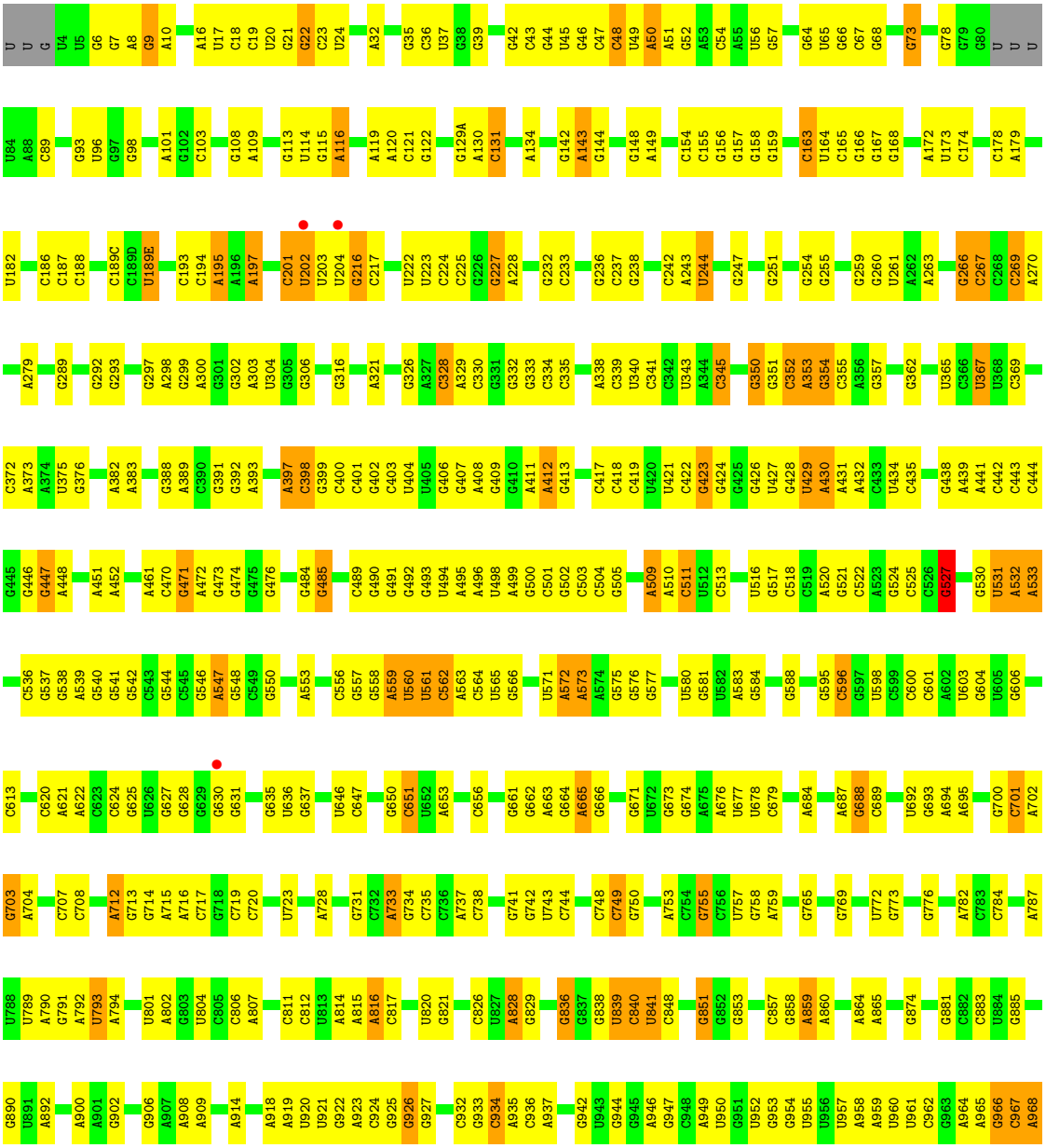
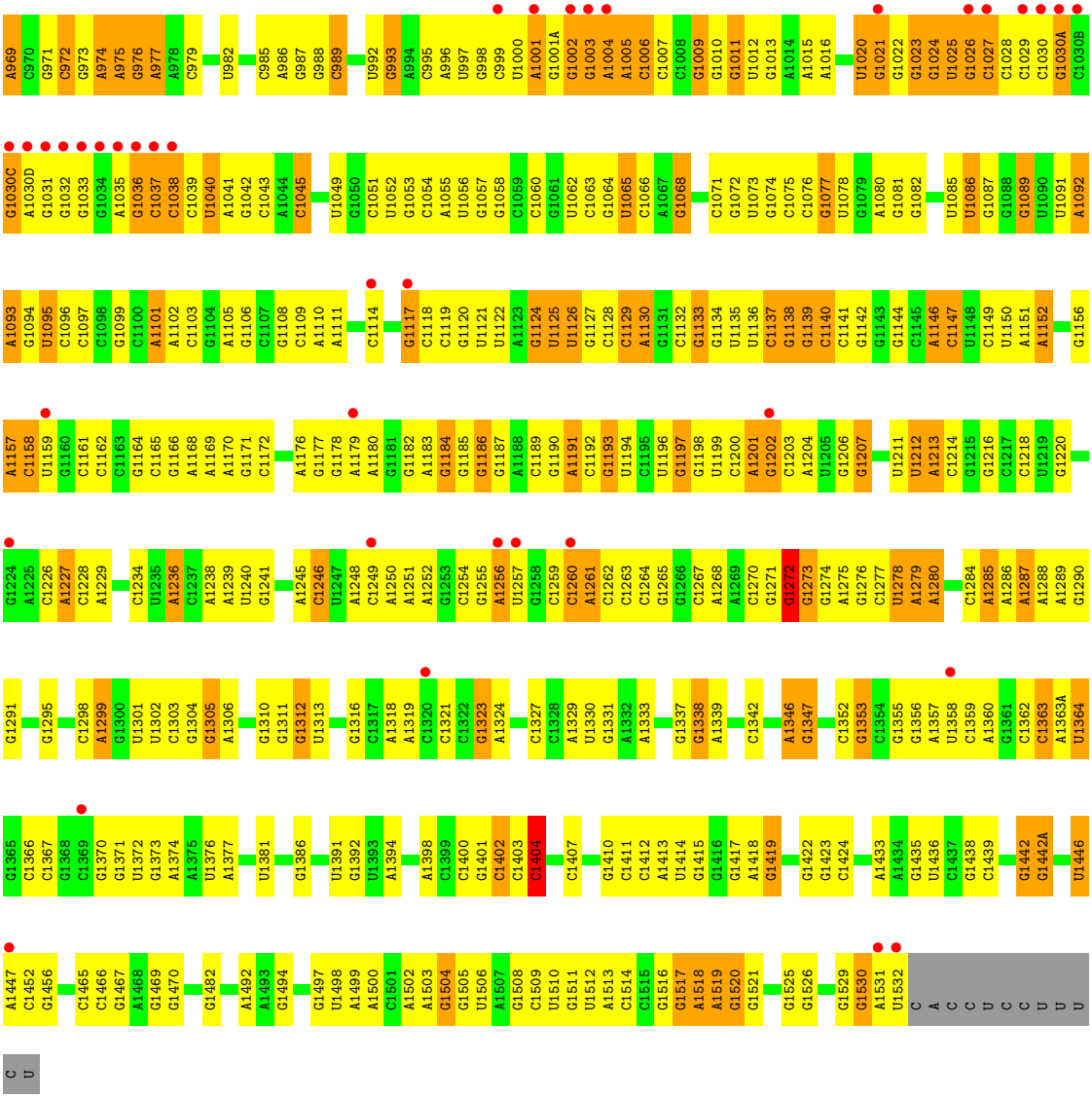
G993 A994 C995 A996 U997 G998 C999 U1000 A1001 G1001A G1002 G1003 A1004 A1005 C1006 G1009 G1010 G1011 A1015 A1016 U1020 G1021 G1022 G1023 G1024 U1025 G1026 C1027 C1028 C1029 C1030 G1030A C1030B G1030C A1030D G1031 G1032 G1033 G1034 A1035 G1036 C1037 C1038 C1039 U1040 A1041 G1042 C1043 A1044 G1047 G1048 U1049 G1050 C1051 U1052 G1053
C1054 A1055 U1056 G1057 G1058 C1059 C1060 U1065 C1066 A1067 G1068 C1069 U1070 C1071 G1072 U1073 G1074 G1077 U1078 G1079 A1080 U1083 G1084 U1085 U1086 G1087 U1090 U1091 A1092 A1093 G1094 U1095 C1096 C1097 C1098 G1099 C1100 A1101 A1102 G1108 G1117 C1118 C1119 U1122 A1123 G1124 U1125 U1126 G1127 G1134 U1135 U1136
C1137 G1138 G1139 C1140 G1144 C1145 A1146 C1147 U1148 C1149 U1150 A1151 A1152 C1153 G1154 U1159 G1160 A1168 A1169 A1170 G1171 C1172 G1173 G1174 G1175 A1179 G1182 A1183 G1184 A1191 C1192 G1193 U1194 C1195 U1196 G1197 A1201 G1202 G1206 G1207 U1212 A1213 C1214 C1217 C1218 U1219 G1220 G1221 C1226
A1227 C1228 A1236 C1237 A1238 A1239 U1240 G1241 C1242 C1243 C1244 A1245 C1246 C1249 A1250 G1253 C1254 G1255 A1256 U1257 G1258 C1263 C1264 A1269 C1270 G1273 G1274 A1275 G1276 C1277 U1278 A1279 A1280 C1284 A1285 A1286 A1287 G1291 U1292 C1298 A1299 G1300 U1301 U1302 C1303 G1304 G1305 G1309 G1310



• Molecule 32: 16S Ribosomal RNA

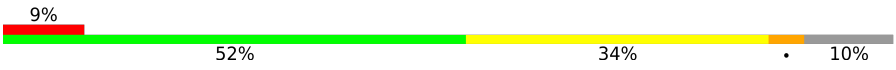
Chain 2a:

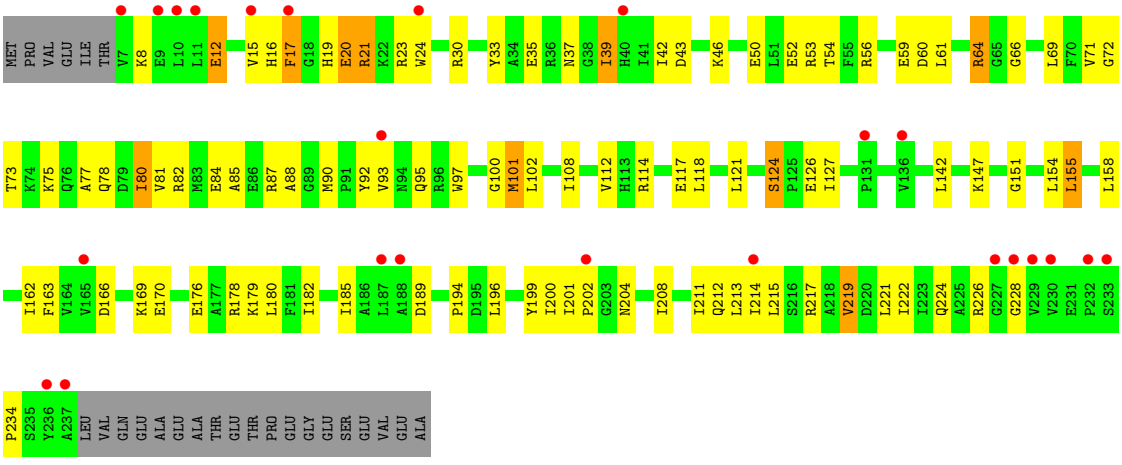




• Molecule 33: 30S ribosomal protein S2

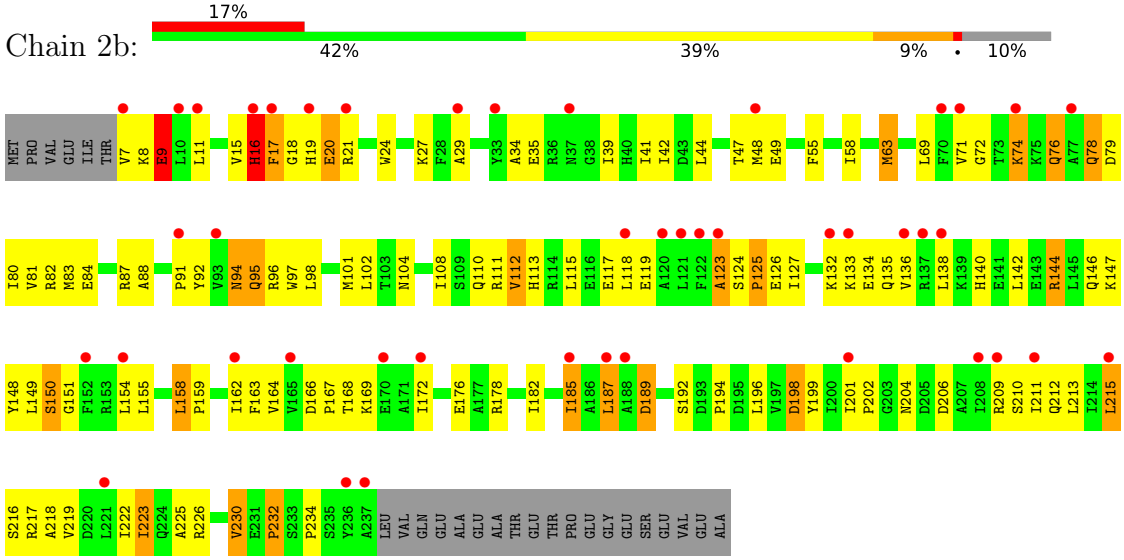
Chain 1b:





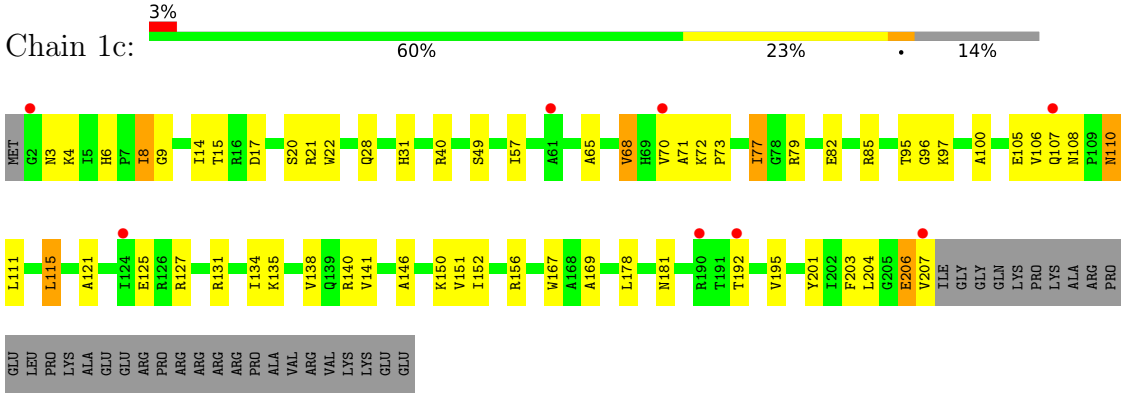
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



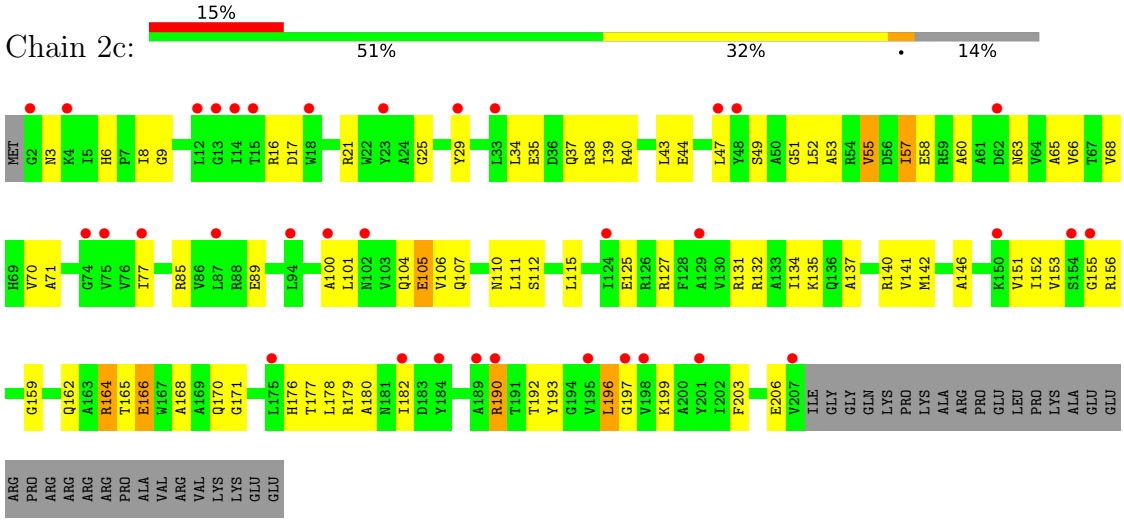
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



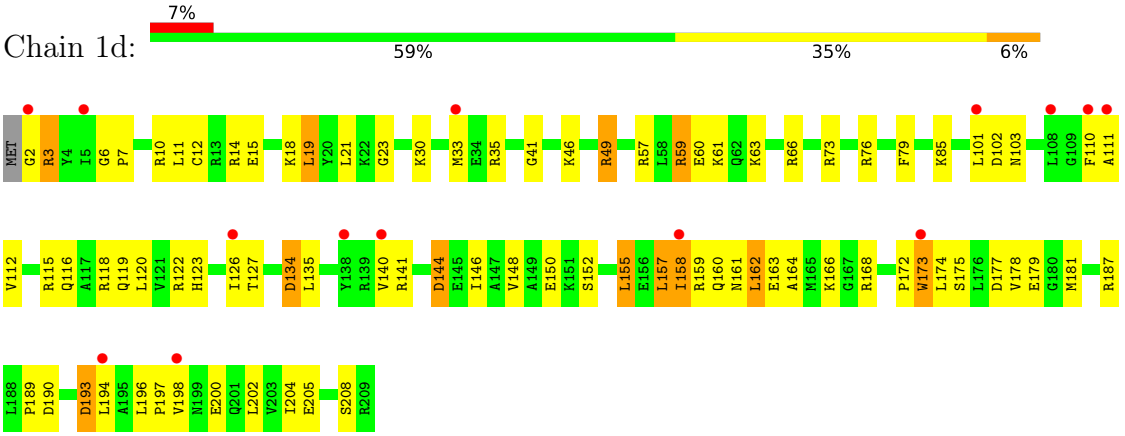
• Molecule 34: 30S ribosomal protein S3

Chain 2c:



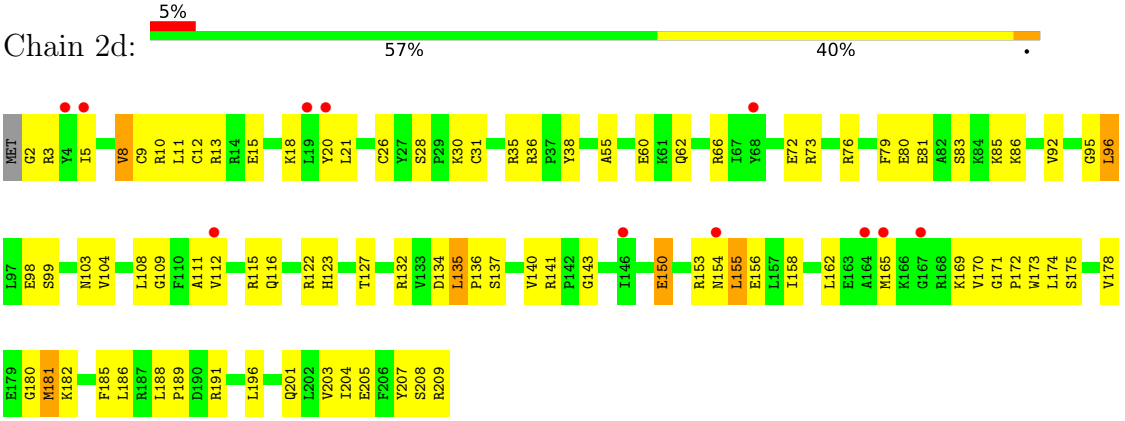
• Molecule 35: 30S ribosomal protein S4

Chain 1d:



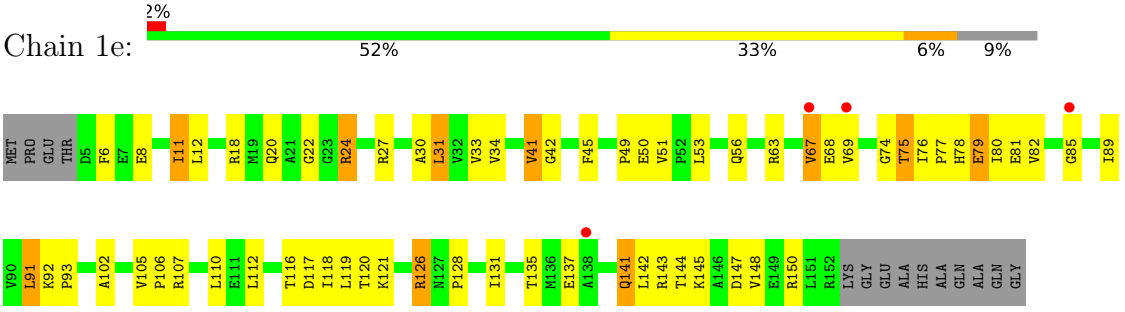
• Molecule 35: 30S ribosomal protein S4

Chain 2d:



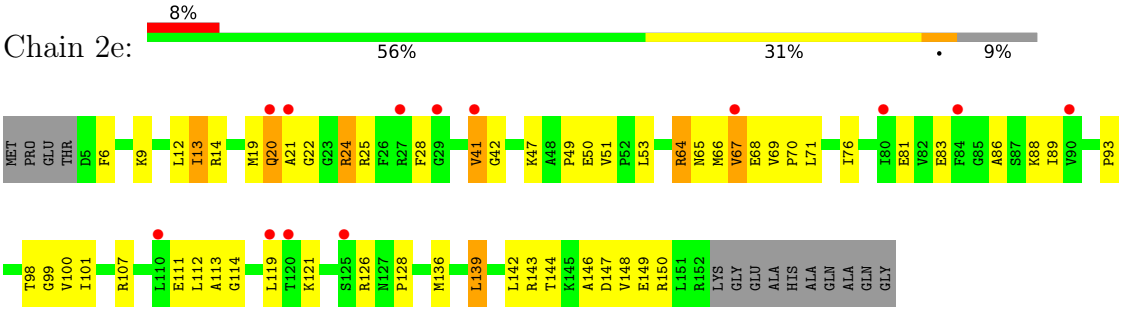
• Molecule 36: 30S ribosomal protein S5

Chain 1e:



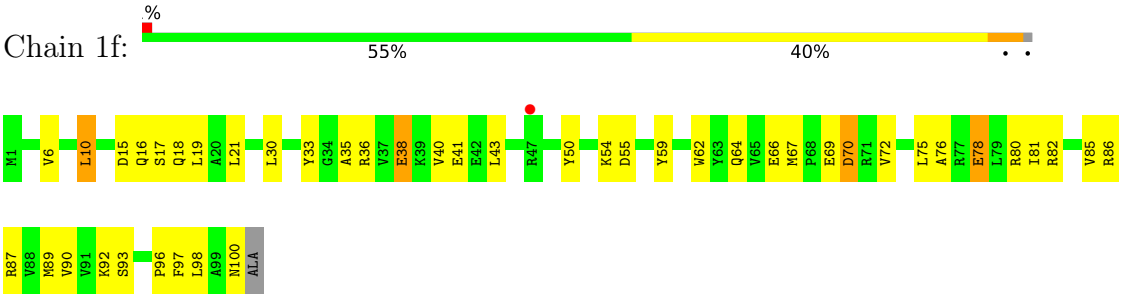
• Molecule 36: 30S ribosomal protein S5

Chain 2e:



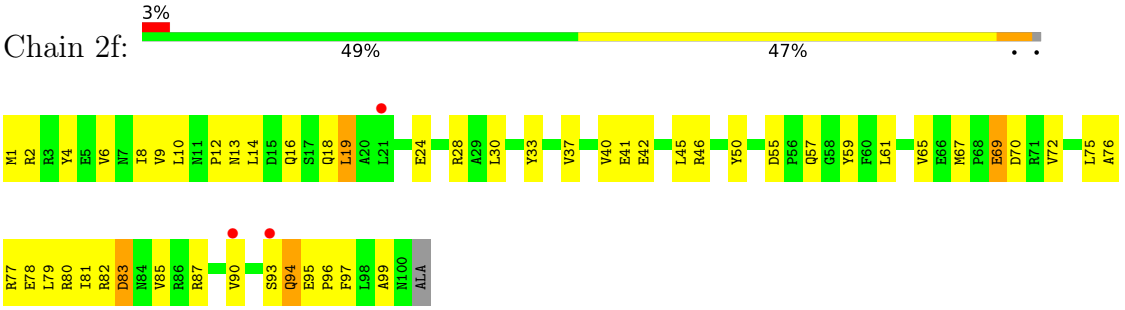
• Molecule 37: 30S ribosomal protein S6

Chain 1f:



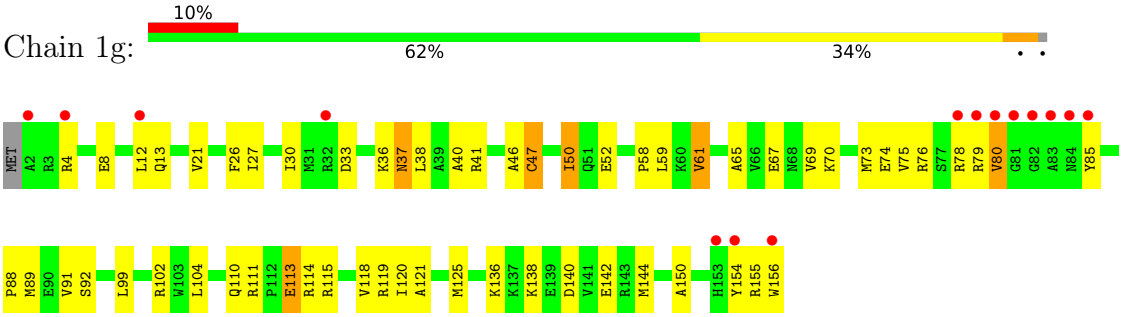
• Molecule 37: 30S ribosomal protein S6

Chain 2f:



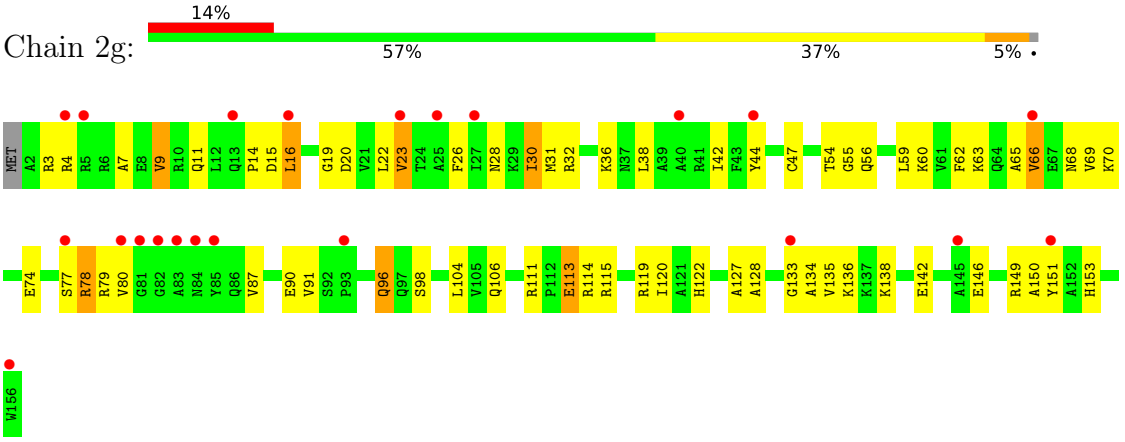
• Molecule 38: 30S ribosomal protein S7

Chain 1g:



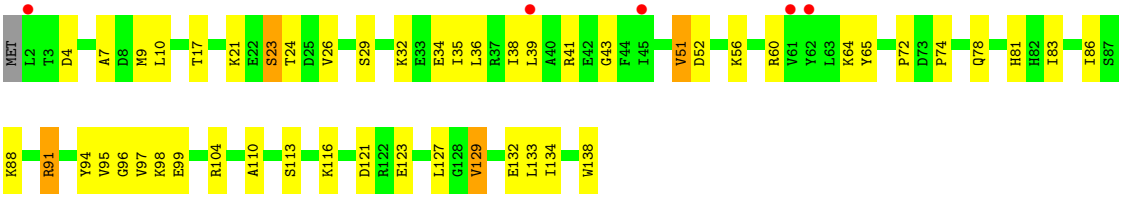
• Molecule 38: 30S ribosomal protein S7

Chain 2g:



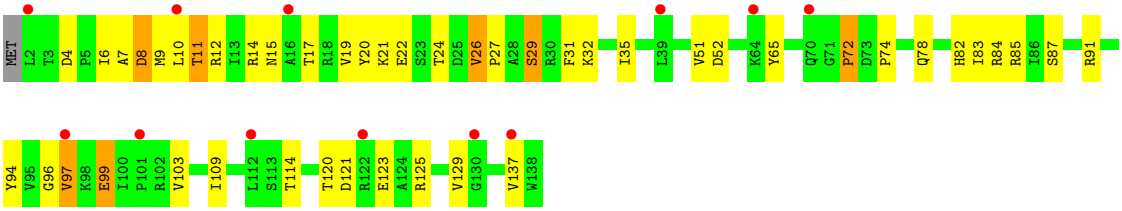
• Molecule 39: 30S ribosomal protein S8

Chain 1h:



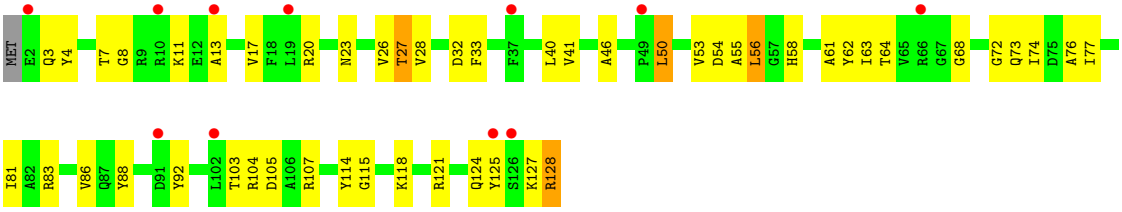
• Molecule 39: 30S ribosomal protein S8

Chain 2h:



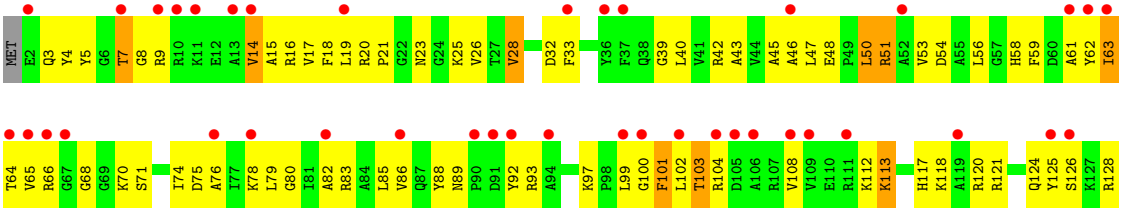
• Molecule 40: 30S ribosomal protein S9

Chain 1i:



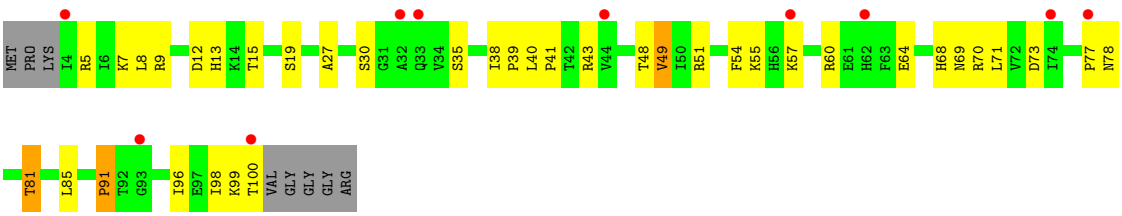
• Molecule 40: 30S ribosomal protein S9

Chain 2i:



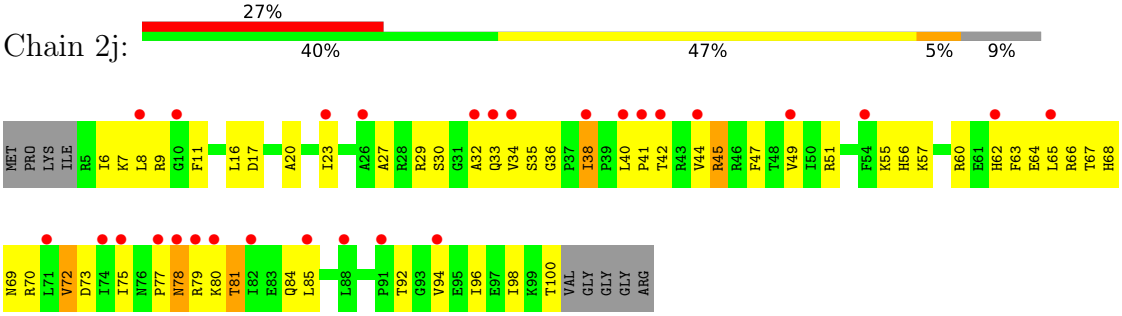
• Molecule 41: 30S ribosomal protein S10

Chain 1j:



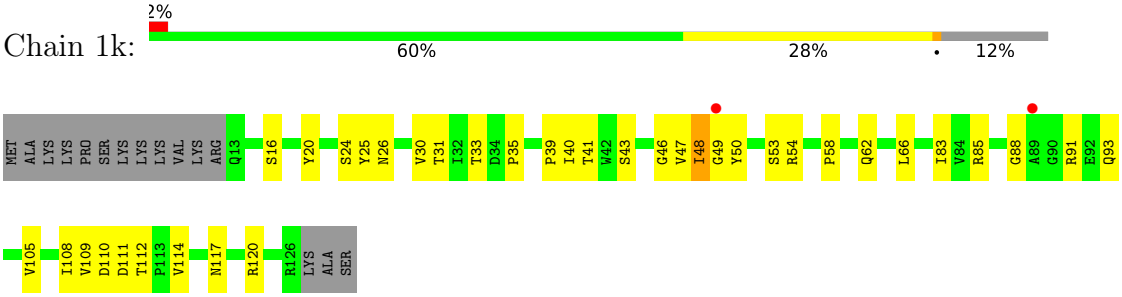
• Molecule 41: 30S ribosomal protein S10

Chain 2j:



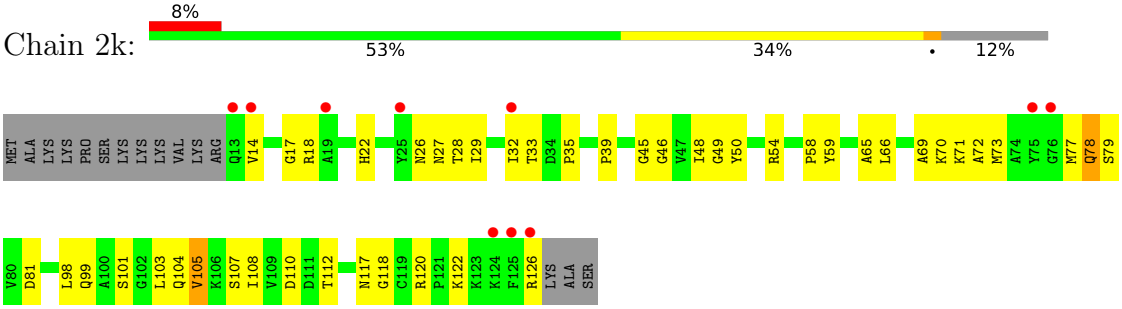
• Molecule 42: 30S ribosomal protein S11

Chain 1k:



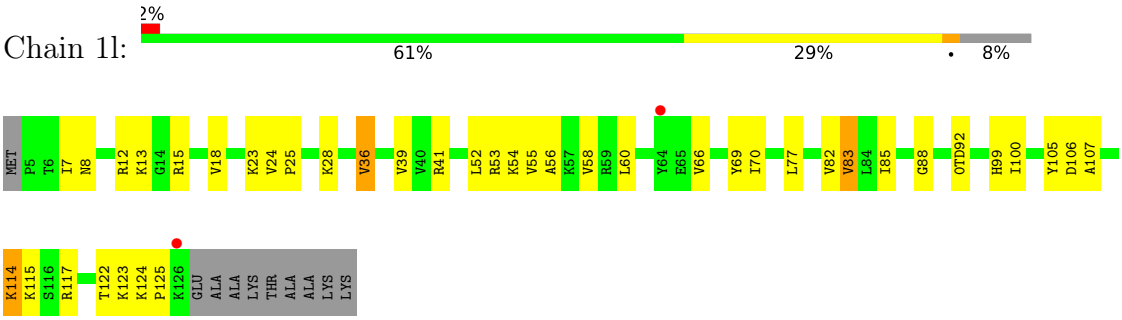
• Molecule 42: 30S ribosomal protein S11

Chain 2k:



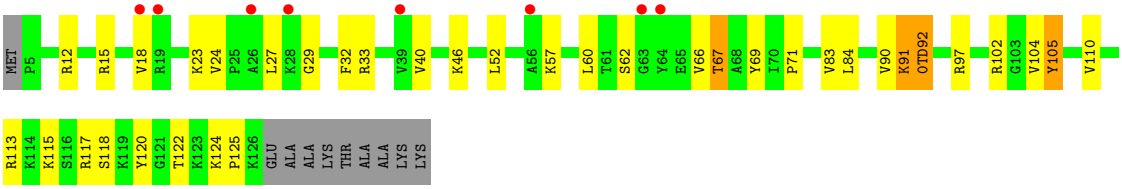
• Molecule 43: 30S ribosomal protein S12

Chain 1l:

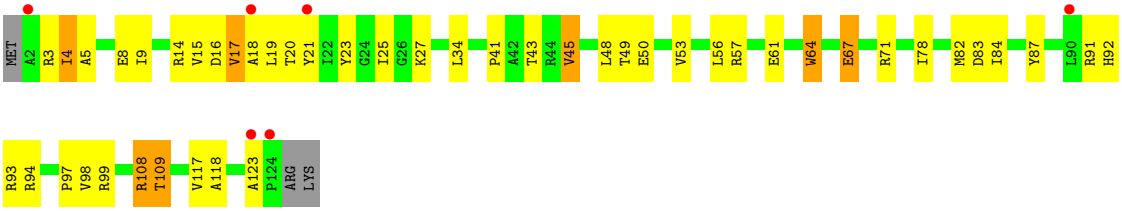


• Molecule 43: 30S ribosomal protein S12

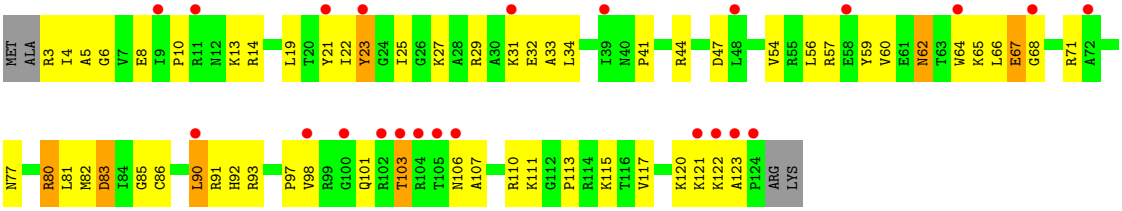
Chain 2l:



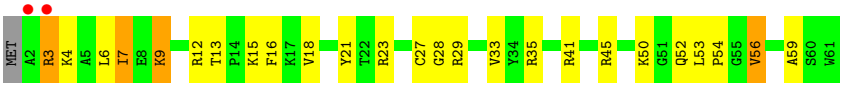
• Molecule 44: 30S ribosomal protein S13



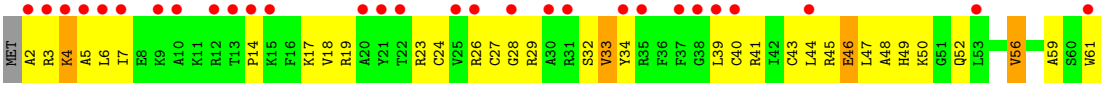
• Molecule 44: 30S ribosomal protein S13



• Molecule 45: 30S ribosomal protein S14 type Z



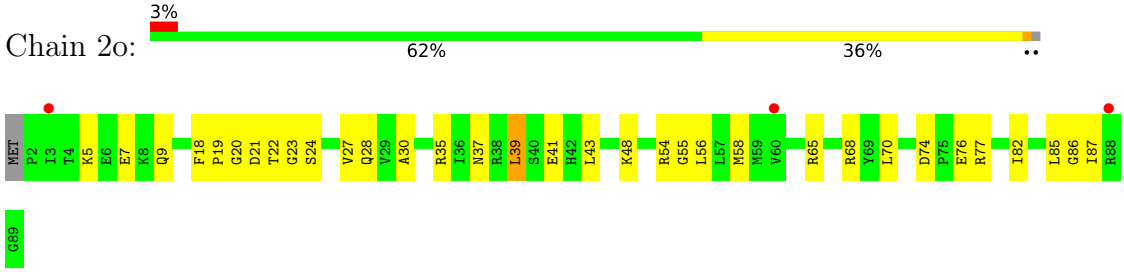
• Molecule 45: 30S ribosomal protein S14 type Z



• Molecule 46: 30S ribosomal protein S15

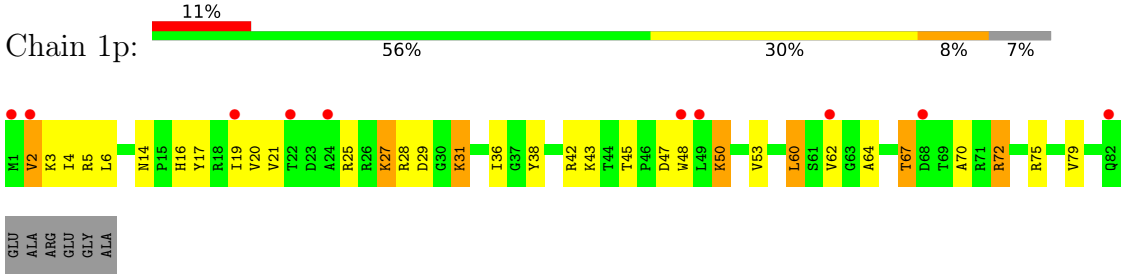
• Molecule 46: 30S ribosomal protein S15

Chain 2o:



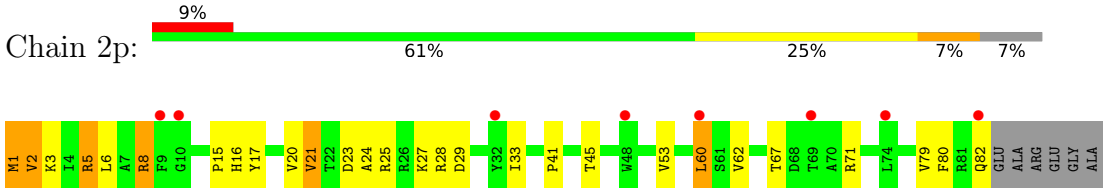
• Molecule 47: 30S ribosomal protein S16

Chain 1p:



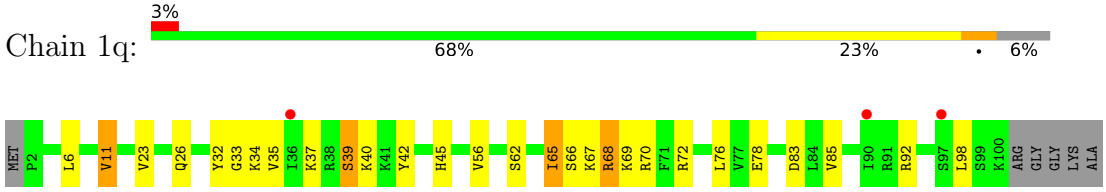
• Molecule 47: 30S ribosomal protein S16

Chain 2p:



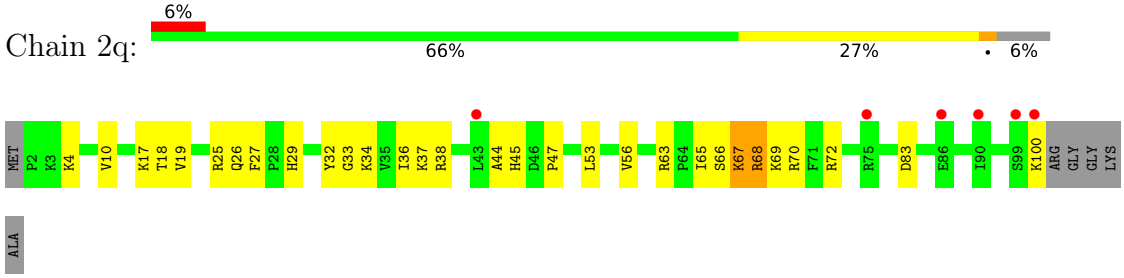
• Molecule 48: 30S ribosomal protein S17

Chain 1q:



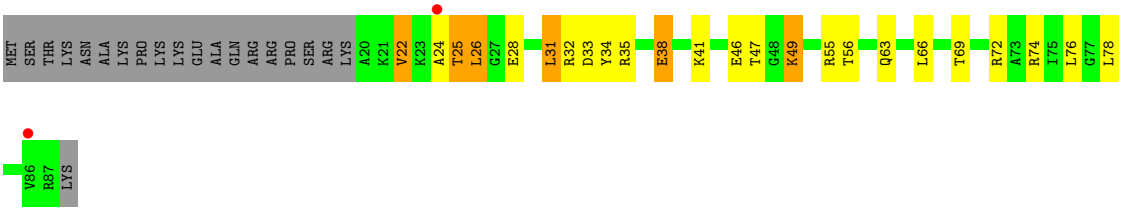
• Molecule 48: 30S ribosomal protein S17

Chain 2q:

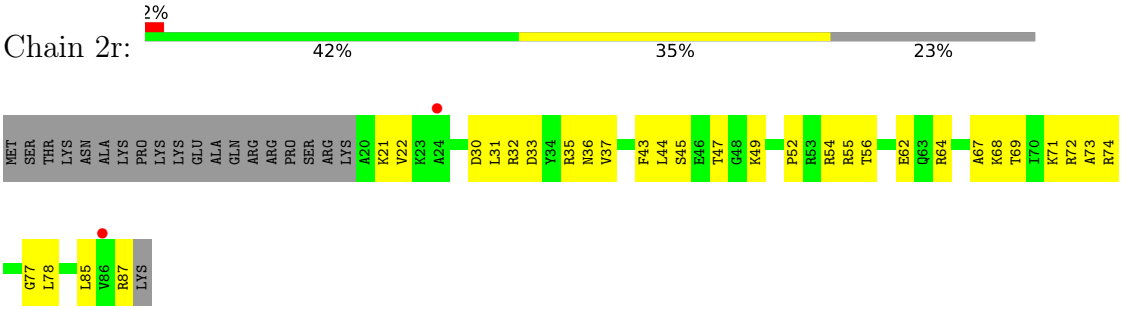


• Molecule 49: 30S ribosomal protein S18

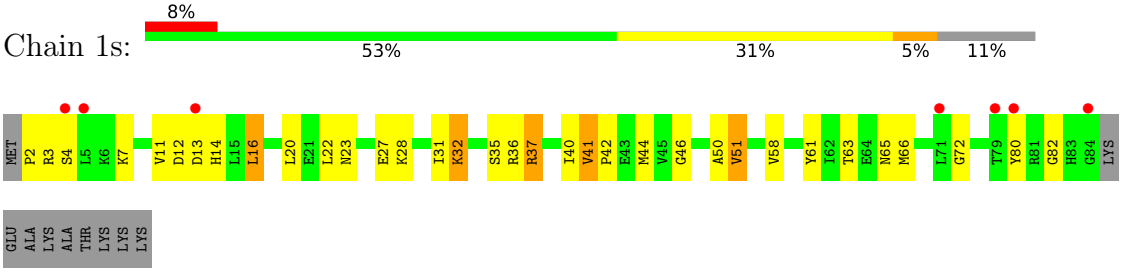
Chain 1r:



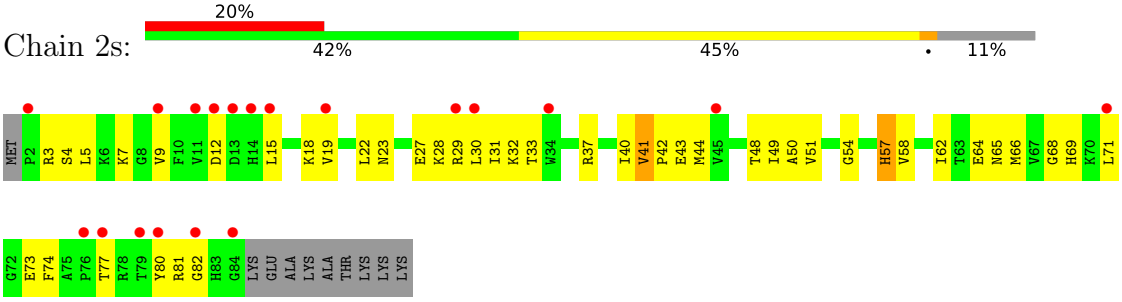
• Molecule 49: 30S ribosomal protein S18



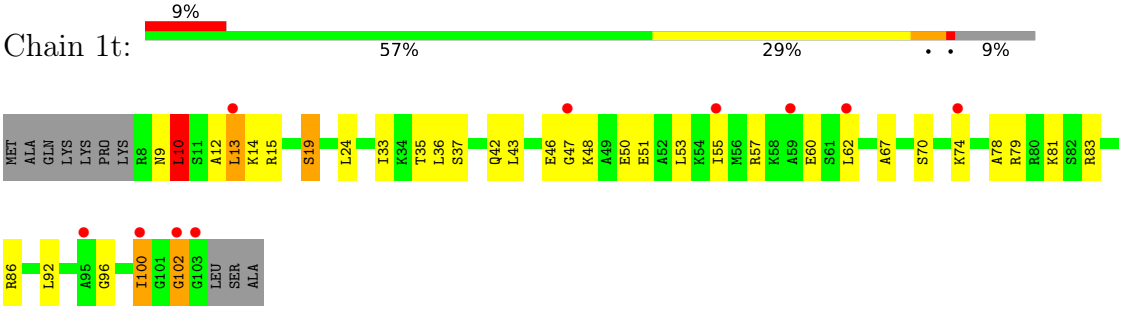
• Molecule 50: 30S ribosomal protein S19



• Molecule 50: 30S ribosomal protein S19

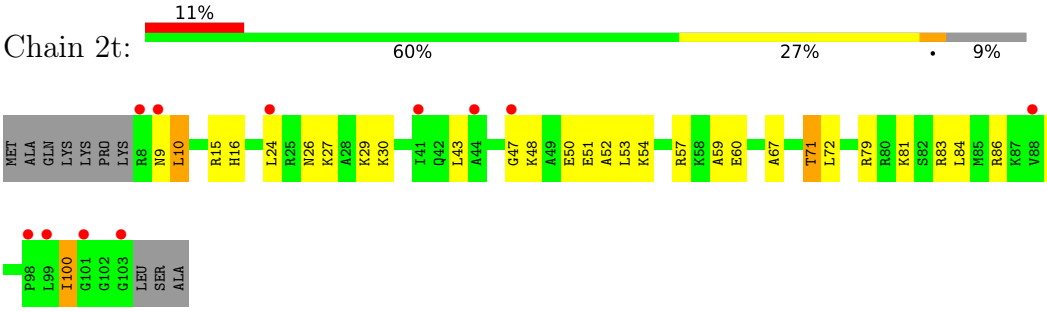


• Molecule 51: 30S ribosomal protein S20



• Molecule 51: 30S ribosomal protein S20

Chain 2t:

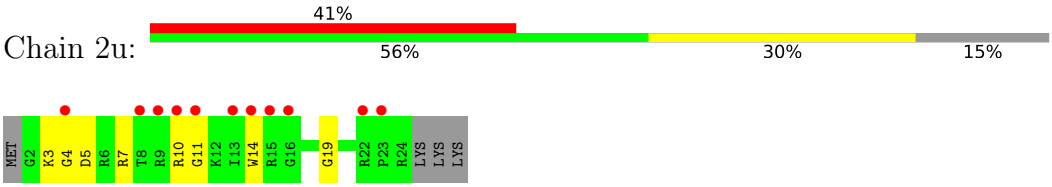


• Molecule 52: 30S ribosomal protein Thx

Chain 1u:

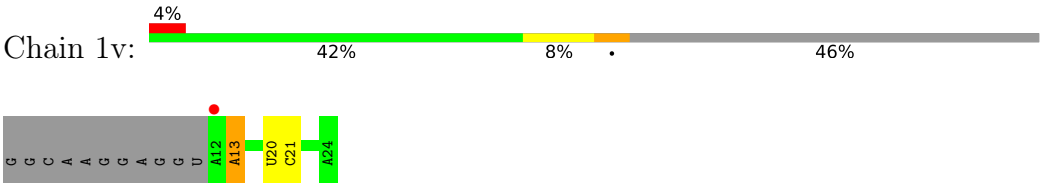
• Molecule 52: 30S ribosomal protein Thx

Chain 2u:



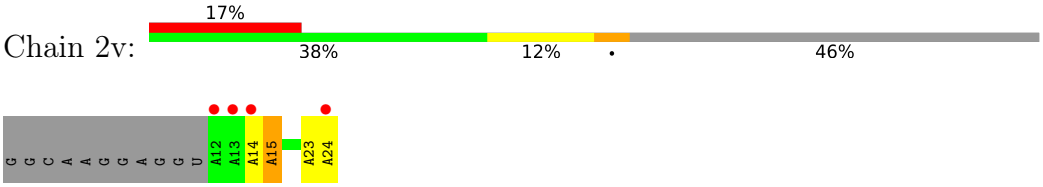
• Molecule 53: mRNA

Chain 1v:



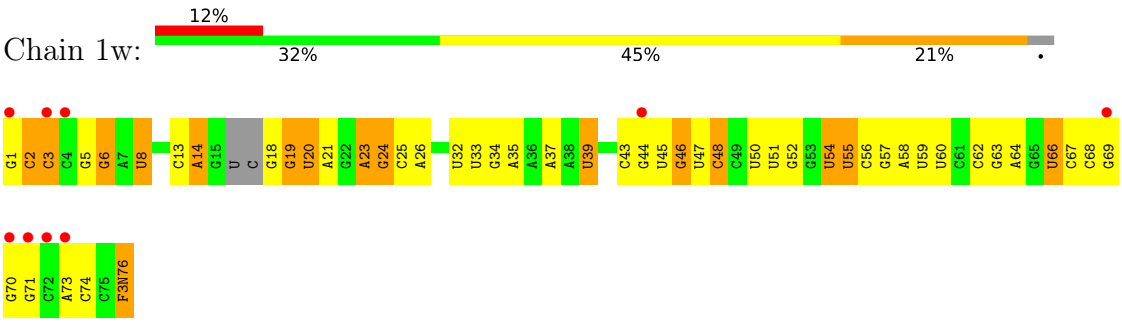
• Molecule 53: mRNA

Chain 2v:



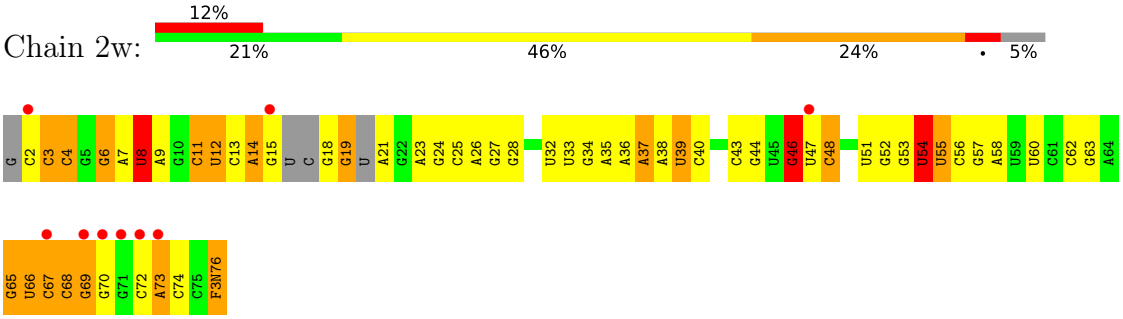
• Molecule 54: A-site tRNA

Chain 1w:



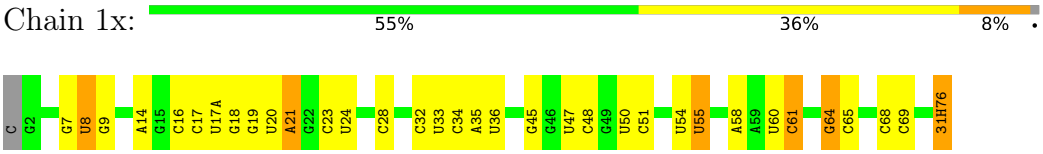
• Molecule 54: A-site tRNA

Chain 2w:



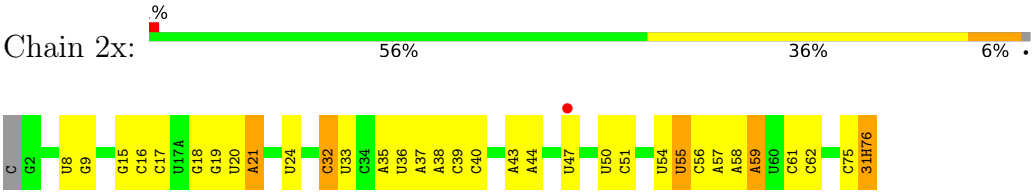
• Molecule 55: P-site tRNA

Chain 1x:



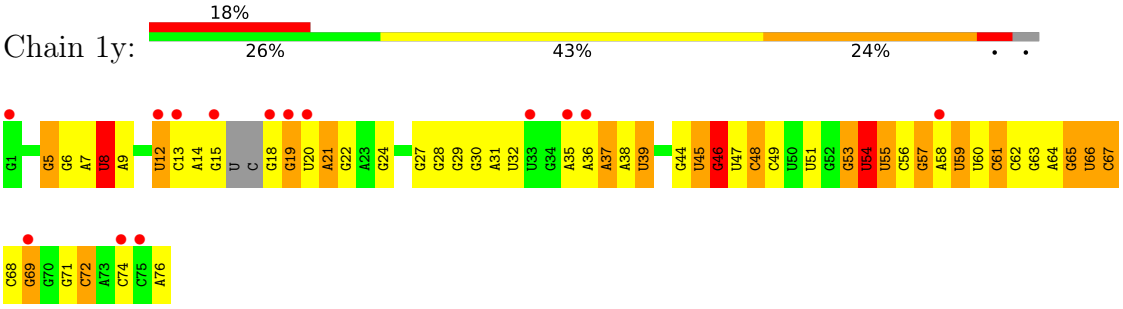
• Molecule 55: P-site tRNA

Chain 2x:



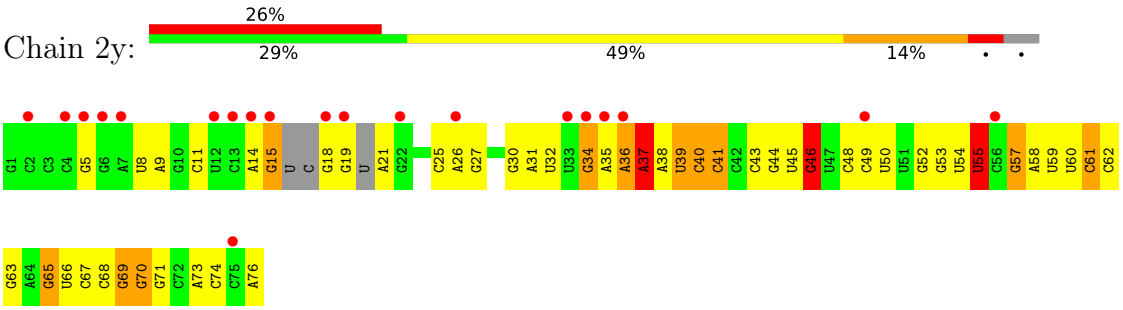
• Molecule 56: E-site tRNA

Chain 1y:



• Molecule 56: E-site tRNA

Chain 2y:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	207.74Å 444.07Å 613.65Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	208.79 – 2.40 208.79 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (208.79-2.40) 99.9 (208.79-2.40)	Depositor EDS
R_{merge}	0.28	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.11 (at 2.40Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.237 , 0.286 0.237 , 0.286	Depositor DCC
R_{free} test set	108927 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	45.8	Xtriage
Anisotropy	0.080	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 56.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.33$, $< L^2 > = 0.15$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	300906	wwPDB-VP
Average B, all atoms (Å^2)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.57% 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: PSU, M2G, UR3, 2MA, 7MG, 0TD, ZN, MIA, 2MG, MG, K, SF4, 31H, 4SU, MA6, F3N, 2MU, OMG, 5MC, 4OC, 5MU

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	0.31	0/68983	0.49	3/107669 (0.0%)
1	2A	0.24	0/67267	0.43	1/104991 (0.0%)
2	1B	0.25	0/2882	0.43	0/4494
2	2B	0.20	0/2879	0.39	0/4487
3	1D	0.29	0/2186	0.53	0/2944
3	2D	0.25	0/2186	0.47	0/2944
4	1E	0.29	0/1592	0.54	0/2149
4	2E	0.24	0/1592	0.44	0/2149
5	1F	0.27	0/1619	0.53	1/2193 (0.0%)
5	2F	0.23	0/1615	0.49	2/2188 (0.1%)
6	1G	0.25	0/1448	0.48	1/1957 (0.1%)
6	2G	0.20	0/1453	0.45	0/1963
7	1H	0.23	0/1356	0.43	0/1834
7	2H	0.18	0/1356	0.37	0/1834
8	1I	0.20	0/1112	0.46	1/1514 (0.1%)
8	2I	0.24	0/1079	0.48	0/1475
9	1N	0.27	0/1144	0.51	0/1543
9	2N	0.19	0/1144	0.41	0/1543
10	1O	0.28	0/943	0.49	0/1269
10	2O	0.23	0/943	0.43	0/1269
11	1P	0.26	0/1152	0.53	0/1533
11	2P	0.22	0/1152	0.52	0/1533
12	1Q	0.28	0/1143	0.50	0/1527
12	2Q	0.21	0/1143	0.43	0/1527
13	1R	0.29	0/982	0.49	0/1312
13	2R	0.22	0/982	0.47	0/1312
14	1S	0.23	0/883	0.49	0/1176
14	2S	0.20	0/880	0.45	0/1172
15	1T	0.26	0/1105	0.51	0/1477
15	2T	0.21	0/1097	0.44	0/1468
16	1U	0.29	0/977	0.49	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
16	2U	0.22	0/977	0.41	0/1301
17	1V	0.27	0/782	0.50	0/1049
17	2V	0.19	0/782	0.43	0/1049
18	1W	0.30	0/897	0.49	0/1205
18	2W	0.22	0/897	0.41	0/1205
19	1X	0.26	0/764	0.56	2/1025 (0.2%)
19	2X	0.22	0/764	0.49	2/1025 (0.2%)
20	1Y	0.23	0/819	0.48	0/1095
20	2Y	0.22	0/819	0.51	1/1095 (0.1%)
21	1Z	0.23	0/1267	0.51	0/1717
21	2Z	0.21	0/1299	0.44	0/1763
22	10	0.31	0/662	0.52	0/881
22	20	0.24	0/662	0.47	0/881
23	11	0.25	0/762	0.44	0/1014
23	21	0.22	0/762	0.42	0/1014
24	12	0.25	0/590	0.43	0/781
24	22	0.19	0/590	0.37	0/781
25	13	0.25	0/474	0.49	0/635
25	23	0.20	0/469	0.45	0/630
26	14	0.24	0/565	0.54	0/761
26	24	0.22	0/545	0.50	0/737
27	15	0.34	0/469	0.61	0/635
27	25	0.26	0/469	0.47	0/635
28	16	0.29	0/460	0.49	0/613
28	26	0.22	0/456	0.45	0/608
29	17	0.30	0/426	0.54	0/561
29	27	0.26	0/426	0.50	0/561
30	18	0.27	0/525	0.48	0/691
30	28	0.22	0/525	0.42	0/691
31	19	0.28	0/310	0.46	0/407
31	29	0.21	0/310	0.41	0/407
32	1a	0.22	0/35795	0.41	1/55864 (0.0%)
32	2a	0.21	0/35886	0.40	1/56005 (0.0%)
33	1b	0.22	0/1881	0.48	0/2542
33	2b	0.22	0/1860	0.48	0/2518
34	1c	0.22	0/1572	0.46	1/2126 (0.0%)
34	2c	0.22	0/1566	0.46	0/2119
35	1d	0.20	0/1685	0.44	0/2262
35	2d	0.19	0/1704	0.44	0/2284
36	1e	0.23	0/1145	0.49	0/1543
36	2e	0.20	0/1149	0.49	0/1548
37	1f	0.20	0/823	0.43	0/1115
37	2f	0.21	0/829	0.42	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	1g	0.21	0/1250	0.40	0/1679
38	2g	0.19	0/1254	0.47	0/1683
39	1h	0.20	0/1108	0.40	0/1494
39	2h	0.19	0/1108	0.41	0/1494
40	1i	0.19	0/1002	0.47	0/1346
40	2i	0.26	0/997	0.52	0/1343
41	1j	0.19	0/722	0.44	0/982
41	2j	0.21	0/727	0.51	0/988
42	1k	0.20	0/844	0.42	0/1145
42	2k	0.18	0/848	0.39	0/1149
43	1l	0.24	0/937	0.45	0/1260
43	2l	0.19	0/937	0.43	0/1260
44	1m	0.21	0/969	0.49	0/1302
44	2m	0.21	0/961	0.49	0/1291
45	1n	0.20	0/501	0.44	0/664
45	2n	0.21	0/501	0.46	0/664
46	1o	0.20	0/739	0.37	0/985
46	2o	0.18	0/739	0.39	0/985
47	1p	0.22	0/697	0.44	0/939
47	2p	0.20	0/693	0.46	0/935
48	1q	0.19	0/836	0.53	1/1117 (0.1%)
48	2q	0.20	0/836	0.48	0/1117
49	1r	0.20	0/560	0.39	0/746
49	2r	0.21	0/560	0.44	0/746
50	1s	0.20	0/667	0.52	0/900
50	2s	0.21	0/661	0.53	0/893
51	1t	0.21	0/730	0.50	0/965
51	2t	0.22	0/729	0.47	0/965
52	1u	0.20	0/203	0.41	0/266
52	2u	0.19	0/203	0.51	0/266
53	1v	0.24	0/310	0.37	0/480
53	2v	0.24	0/310	0.42	0/480
54	1w	0.27	0/1581	0.46	0/2458
54	2w	0.27	1/1531 (0.1%)	0.44	0/2379
55	1x	0.30	0/1700	0.43	0/2650
55	2x	0.26	0/1700	0.40	0/2650
56	1y	0.29	1/1606 (0.1%)	0.45	0/2497
56	2y	0.29	0/1583	0.48	0/2459
All	All	0.25	2/316534 (0.0%)	0.45	18/473871 (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
11	1P	0	2
11	2P	0	1
44	2m	0	1
All	All	0	4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	1y	8	4SU	O3'-P	5.32	1.61	1.56
54	2w	8	4SU	O3'-P	5.00	1.61	1.56

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	1q	65	ILE	N-CA-C	-7.92	105.04	112.96
6	1G	127	GLY	N-CA-C	-7.38	105.66	115.40
5	1F	78	ILE	N-CA-C	-6.58	104.75	112.98
1	1A	1992	G	C2'-C3'-O3'	6.53	119.30	109.50
8	1I	67	ARG	N-CA-C	-6.29	105.71	113.19
34	1c	96	GLY	N-CA-C	-5.73	108.03	115.59
5	2F	21	ALA	CA-C-N	5.36	131.35	121.70
5	2F	21	ALA	C-N-CA	5.36	131.35	121.70
20	2Y	71	LYS	N-CA-C	-5.30	106.88	113.19
32	1a	266	G	C2'-C3'-O3'	5.28	117.42	109.50
32	2a	1272	G	N1-C2-N2	-5.25	100.44	116.20
1	1A	512	G	O4'-C1'-N9	5.24	116.06	108.20
1	1A	1992	G	P-O3'-C3'	5.24	128.06	120.20
19	2X	94	GLY	CA-C-N	5.20	131.06	121.70
19	2X	94	GLY	C-N-CA	5.20	131.06	121.70
19	1X	94	GLY	CA-C-N	5.15	130.97	121.70
19	1X	94	GLY	C-N-CA	5.15	130.97	121.70
1	2A	752	A	C2'-C3'-O3'	5.12	117.18	109.50

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
11	1P	35	HIS	Peptide
11	1P	37	GLY	Peptide
11	2P	35	HIS	Peptide
44	2m	106	ASN	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	61854	0	31195	942	0
1	2A	60324	0	30428	1053	0
2	1B	2577	0	1305	29	0
2	2B	2575	0	1303	51	0
3	1D	2136	0	2218	64	0
3	2D	2136	0	2218	60	0
4	1E	1559	0	1618	51	0
4	2E	1559	0	1618	51	0
5	1F	1584	0	1625	53	0
5	2F	1580	0	1619	65	0
6	1G	1423	0	1436	52	0
6	2G	1428	0	1438	66	0
7	1H	1330	0	1407	32	0
7	2H	1330	0	1407	43	0
8	1I	1097	0	1140	29	0
8	2I	1064	0	1082	33	0
9	1N	1117	0	1184	21	0
9	2N	1117	0	1184	30	0
10	1O	933	0	996	33	0
10	2O	933	0	996	29	0
11	1P	1135	0	1212	45	0
11	2P	1135	0	1212	42	0
12	1Q	1122	0	1179	23	0
12	2Q	1122	0	1179	41	0
13	1R	968	0	1033	30	0
13	2R	968	0	1033	33	0
14	1S	873	0	926	28	0
14	2S	870	0	923	33	0
15	1T	1091	0	1151	24	0
15	2T	1083	0	1136	31	0
16	1U	959	0	1019	14	0
16	2U	959	0	1019	25	0
17	1V	771	0	830	16	0
17	2V	771	0	830	22	0
18	1W	886	0	940	18	0
18	2W	886	0	940	16	0
19	1X	750	0	814	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	2X	750	0	814	27	0
20	1Y	806	0	881	15	0
20	2Y	806	0	881	30	0
21	1Z	1240	0	1240	46	0
21	2Z	1271	0	1273	60	0
22	10	653	0	674	16	0
22	20	653	0	674	18	0
23	11	755	0	826	18	0
23	21	755	0	826	23	0
24	12	588	0	643	15	0
24	22	588	0	643	20	0
25	13	469	0	518	14	0
25	23	464	0	514	21	0
26	14	552	0	533	28	0
26	24	532	0	503	28	0
27	15	455	0	465	15	0
27	25	455	0	465	13	0
28	16	453	0	473	11	0
28	26	449	0	469	18	0
29	17	418	0	467	9	0
29	27	418	0	467	10	0
30	18	517	0	582	19	0
30	28	517	0	582	24	0
31	19	307	0	335	8	0
31	29	307	0	335	7	0
32	1a	32246	0	16294	565	0
32	2a	32327	0	16339	716	0
33	1b	1846	0	1867	64	0
33	2b	1825	0	1828	100	0
34	1c	1548	0	1535	38	0
34	2c	1542	0	1517	56	0
35	1d	1655	0	1672	60	0
35	2d	1674	0	1714	59	0
36	1e	1129	0	1185	49	0
36	2e	1133	0	1191	40	0
37	1f	810	0	804	26	0
37	2f	816	0	808	41	0
38	1g	1231	0	1238	38	0
38	2g	1235	0	1249	43	0
39	1h	1088	0	1126	34	0
39	2h	1088	0	1126	32	0
40	1i	983	0	986	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	2i	978	0	966	68	0
41	1j	709	0	650	33	0
41	2j	714	0	672	47	0
42	1k	829	0	825	18	0
42	2k	833	0	836	34	0
43	1l	932	0	978	24	0
43	2l	932	0	981	26	0
44	1m	958	0	1002	36	0
44	2m	950	0	988	55	0
45	1n	492	0	529	20	0
45	2n	492	0	529	25	0
46	1o	728	0	760	20	0
46	2o	728	0	760	22	0
47	1p	681	0	697	24	0
47	2p	677	0	686	20	0
48	1q	823	0	891	21	0
48	2q	823	0	891	18	0
49	1r	555	0	618	14	0
49	2r	555	0	618	27	0
50	1s	652	0	662	27	0
50	2s	646	0	644	35	0
51	1t	728	0	798	25	0
51	2t	727	0	796	25	0
52	1u	199	0	208	8	0
52	2u	199	0	208	8	0
53	1v	277	0	140	3	0
53	2v	277	0	140	7	0
54	1w	1603	0	829	32	0
54	2w	1555	0	798	46	0
55	1x	1635	0	838	20	0
55	2x	1635	0	838	21	0
56	1y	1585	0	804	42	0
56	2y	1565	0	795	44	0
57	10	9	0	0	0	0
57	11	6	0	0	0	0
57	12	2	0	0	0	0
57	13	5	0	0	0	0
57	14	1	0	0	0	0
57	15	7	0	0	0	0
57	16	1	0	0	0	0
57	17	5	0	0	0	0
57	18	6	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	19	1	0	0	0	0
57	1A	1121	0	0	0	0
57	1B	34	0	0	0	0
57	1D	12	0	0	0	0
57	1E	13	0	0	0	0
57	1F	11	0	0	0	0
57	1G	5	0	0	0	0
57	1I	1	0	0	0	0
57	1N	5	0	0	0	0
57	1O	4	0	0	0	0
57	1P	4	0	0	0	0
57	1Q	7	0	0	0	0
57	1R	4	0	0	0	0
57	1S	3	0	0	0	0
57	1T	4	0	0	0	0
57	1U	9	0	0	0	0
57	1V	9	0	0	0	0
57	1W	6	0	0	0	0
57	1X	7	0	0	0	0
57	1Y	3	0	0	0	0
57	1Z	2	0	0	0	0
57	1a	219	0	0	0	0
57	1b	2	0	0	0	0
57	1d	1	0	0	0	0
57	1e	2	0	0	0	0
57	1f	2	0	0	0	0
57	1l	2	0	0	0	0
57	1m	2	0	0	0	0
57	1n	1	0	0	0	0
57	1t	1	0	0	0	0
57	1v	1	0	0	0	0
57	1w	10	0	0	0	0
57	1x	15	0	0	0	0
57	1y	3	0	0	0	0
57	20	1	0	0	0	0
57	21	1	0	0	0	0
57	23	4	0	0	0	0
57	25	5	0	0	0	0
57	26	1	0	0	0	0
57	27	1	0	0	0	0
57	28	3	0	0	0	0
57	2A	890	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	2B	20	0	0	0	0
57	2D	7	0	0	0	0
57	2E	5	0	0	0	0
57	2F	6	0	0	0	0
57	2G	1	0	0	0	0
57	2N	1	0	0	0	0
57	2O	2	0	0	0	0
57	2P	1	0	0	0	0
57	2Q	5	0	0	0	0
57	2R	2	0	0	0	0
57	2T	3	0	0	0	0
57	2U	2	0	0	0	0
57	2V	3	0	0	0	0
57	2W	2	0	0	0	0
57	2X	3	0	0	0	0
57	2Z	1	0	0	0	0
57	2a	238	0	0	0	0
57	2d	2	0	0	0	0
57	2e	1	0	0	0	0
57	2f	2	0	0	0	0
57	2g	1	0	0	0	0
57	2j	2	0	0	0	0
57	2l	3	0	0	0	0
57	2q	3	0	0	0	0
57	2r	1	0	0	0	0
57	2t	1	0	0	0	0
57	2v	4	0	0	0	0
57	2w	9	0	0	0	0
57	2x	5	0	0	0	0
57	2y	6	0	0	0	0
58	1A	1	0	0	0	0
58	2A	1	0	0	0	0
59	14	1	0	0	0	0
59	15	1	0	0	0	0
59	16	1	0	0	0	0
59	19	1	0	0	0	0
59	1Y	1	0	0	0	0
59	1n	1	0	0	0	0
59	24	1	0	0	0	0
59	25	1	0	0	0	0
59	26	1	0	0	0	0
59	29	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	2Y	1	0	0	0	0
59	2n	1	0	0	0	0
60	1d	8	0	0	0	0
60	2d	8	0	0	1	0
61	10	14	0	0	0	0
61	11	11	0	0	1	0
61	12	4	0	0	1	0
61	13	6	0	0	0	0
61	14	1	0	0	0	0
61	15	5	0	0	0	0
61	16	5	0	0	1	0
61	17	7	0	0	1	0
61	18	9	0	0	1	0
61	19	1	0	0	0	0
61	1A	2266	0	0	121	0
61	1B	69	0	0	2	0
61	1D	25	0	0	3	0
61	1E	26	0	0	3	0
61	1F	19	0	0	1	0
61	1G	7	0	0	0	0
61	1H	2	0	0	0	0
61	1N	7	0	0	1	0
61	1O	6	0	0	1	0
61	1P	24	0	0	3	0
61	1Q	9	0	0	0	0
61	1R	15	0	0	2	0
61	1S	6	0	0	0	0
61	1T	8	0	0	0	0
61	1U	9	0	0	1	0
61	1V	8	0	0	0	0
61	1W	6	0	0	1	0
61	1X	8	0	0	0	0
61	1Y	4	0	0	1	0
61	1Z	1	0	0	0	0
61	1a	410	0	0	36	0
61	1b	1	0	0	0	0
61	1d	1	0	0	0	0
61	1e	1	0	0	0	0
61	1i	1	0	0	0	0
61	1l	7	0	0	1	0
61	1m	3	0	0	0	0
61	1o	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	1p	1	0	0	0	0
61	1q	2	0	0	0	0
61	1u	1	0	0	1	0
61	1v	6	0	0	0	0
61	1w	21	0	0	3	0
61	1x	15	0	0	1	0
61	1y	2	0	0	0	0
61	20	3	0	0	0	0
61	21	12	0	0	1	0
61	22	2	0	0	0	0
61	23	2	0	0	0	0
61	25	6	0	0	1	0
61	27	3	0	0	0	0
61	28	6	0	0	0	0
61	29	1	0	0	0	0
61	2A	1381	0	0	112	0
61	2B	24	0	0	1	0
61	2D	25	0	0	2	0
61	2E	16	0	0	1	0
61	2F	13	0	0	0	0
61	2I	2	0	0	0	0
61	2N	1	0	0	0	0
61	2O	2	0	0	0	0
61	2P	16	0	0	2	0
61	2Q	3	0	0	0	0
61	2R	3	0	0	1	0
61	2T	4	0	0	0	0
61	2U	4	0	0	0	0
61	2V	1	0	0	0	0
61	2W	3	0	0	0	0
61	2X	5	0	0	2	0
61	2Y	1	0	0	1	0
61	2Z	2	0	0	0	0
61	2a	366	0	0	32	0
61	2d	3	0	0	1	0
61	2e	3	0	0	0	0
61	2g	1	0	0	0	0
61	2i	1	0	0	0	0
61	2j	4	0	0	0	0
61	2l	6	0	0	0	0
61	2o	2	0	0	1	0
61	2p	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	2q	1	0	0	0	0
61	2r	1	0	0	0	0
61	2t	3	0	0	0	0
61	2v	2	0	0	0	0
61	2w	1	0	0	0	0
61	2x	9	0	0	1	0
61	2y	20	0	0	1	0
All	All	300906	0	196730	5767	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 12.

All (5767) 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)
1:1A:1082:U:H3	1:1A:1086:A:N6	1.21	1.35
1:1A:1054:A:N6	1:1A:1105:U:H3	1.36	1.22
1:1A:1082:U:O4	1:1A:1086:A:N1	1.86	1.06
1:1A:2128:C:N4	1:1A:2160:G:H1	1.54	1.05
1:2A:2138:C:N4	1:2A:2153:G:H1	1.60	1.00
32:2a:1055:A:N7	32:2a:1200:C:N4	2.09	0.99
32:2a:73:G:H1	32:2a:96:U:H3	1.06	0.97
1:1A:1065:U:O2	1:1A:1073:A:N6	1.96	0.96
7:2H:18:GLU:HB3	7:2H:25:LYS:HB3	1.47	0.96
10:2O:48:PRO:HB3	32:2a:1422:G:H5"	1.46	0.95
1:1A:1058:G:H1	1:1A:1080:C:H42	1.11	0.95
1:2A:2108:C:H42	1:2A:2181:G:H1	1.03	0.95
1:1A:2124:G:H1	1:1A:2174:C:N4	1.63	0.94
1:1A:1059:G:H1	1:1A:1079:C:H42	1.16	0.94
1:1A:2124:G:H1	1:1A:2174:C:H42	0.96	0.93
32:1a:1004:A:N6	32:1a:1037:C:N3	2.17	0.93
1:1A:2099:U:H3	1:1A:2190:G:H1	1.17	0.93
32:2a:1025:U:H3	32:2a:1036:G:H1	1.10	0.93
10:2O:35:VAL:HG11	10:2O:103:ALA:HB3	1.51	0.92
1:1A:1054:A:H61	1:1A:1105:U:H3	0.94	0.92
1:2A:2099:U:H3	1:2A:2190:G:H1	1.03	0.92
1:1A:2128:C:H42	1:1A:2160:G:H1	1.08	0.92
10:1O:35:VAL:HG11	10:1O:103:ALA:HB3	1.52	0.91
1:1A:1071:G:N2	1:1A:1091:G:N7	2.19	0.91
56:2y:15:G:N2	56:2y:48:C:H42	1.67	0.91
54:2w:18:G:O2'	54:2w:57:G:N2	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:2w:4:C:N4	54:2w:69:G:H1	1.69	0.91
1:1A:2427:C:OP1	61:1A:4211:HOH:O	1.90	0.90
1:1A:2499:C:OP1	61:1A:4210:HOH:O	1.88	0.90
32:2a:559:A:H4'	32:2a:560:U:H3'	1.51	0.89
1:1A:2128:C:N3	1:1A:2160:G:N2	2.21	0.89
1:1A:1054:A:N6	1:1A:1105:U:N3	2.16	0.89
54:1w:26:A:H61	54:1w:44:G:H1	1.15	0.89
56:1y:15:G:H22	56:1y:48:C:H42	1.17	0.88
1:1A:1039:G:H1	1:1A:1116:C:H42	1.22	0.88
1:1A:884:C:H42	1:1A:892:G:H1	1.20	0.88
1:1A:826:U:OP1	61:1A:4211:HOH:O	1.92	0.88
32:1a:376:G:H5"	47:1p:5:ARG:HG2	1.54	0.87
56:2y:15:G:H22	56:2y:48:C:H42	1.17	0.87
1:1A:631:A:OP1	11:1P:65:ARG:NH1	2.07	0.87
56:2y:9:A:O2'	56:2y:11:C:N4	2.07	0.87
56:2y:26:A:N1	56:2y:44:G:O6	2.08	0.87
33:1b:185:ILE:HG22	33:1b:199:TYR:HB2	1.56	0.86
32:2a:1029:C:C4	32:2a:1032:G:N1	2.43	0.86
1:1A:2100:G:H1	1:1A:2189:U:H3	1.21	0.86
56:2y:18:G:N2	56:2y:55:PSU:N3	2.22	0.86
1:2A:805:G:OP1	61:2A:3905:HOH:O	1.93	0.86
44:2m:23:TYR:HB3	44:2m:67:GLU:HA	1.56	0.86
36:1e:78:HIS:HE1	36:1e:143:ARG:H	1.17	0.86
1:1A:1602:U:O4	61:1A:4212:HOH:O	1.94	0.86
33:1b:16:HIS:HB2	33:1b:204:ASN:HB3	1.58	0.86
32:2a:765:G:H1	32:2a:812:C:HO2'	1.23	0.86
1:1A:1055:G:H1	1:1A:1104:C:H42	1.24	0.85
36:1e:105:VAL:HG21	36:1e:128:PRO:HB3	1.58	0.85
1:2A:2108:C:N4	1:2A:2181:G:H1	1.74	0.85
1:2A:994:C:OP1	16:2U:53:ARG:NH2	2.08	0.85
1:2A:143:G:H4'	19:2X:35:THR:HG21	1.59	0.85
34:2c:58:GLU:HB3	41:2j:92:THR:HG21	1.57	0.85
1:2A:2127:G:N2	1:2A:2161:C:C2	2.44	0.84
4:1E:7:VAL:HG12	4:1E:27:LEU:HB3	1.59	0.84
32:2a:801:U:OP1	61:2a:1904:HOH:O	1.96	0.84
32:2a:427:U:OP1	35:2d:13:ARG:NH1	2.10	0.84
4:1E:28:ALA:HB3	4:1E:93:VAL:HG12	1.59	0.84
1:2A:2143:C:H42	1:2A:2148:G:H1	1.23	0.83
38:2g:68:ASN:HD22	38:2g:128:ALA:HA	1.42	0.83
44:1m:3:ARG:HH22	44:1m:45:VAL:HG11	1.42	0.83
54:2w:4:C:H42	54:2w:69:G:H1	1.21	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:272(G):C:H42	1:1A:363(C):G:H1	1.25	0.82
1:2A:2183:C:H2'	1:2A:2184:G:H8	1.44	0.82
54:2w:68:C:H2'	54:2w:69:G:H8	1.44	0.82
1:1A:2316:C:O2'	6:1G:128:ARG:NH2	2.11	0.82
1:1A:1271:G:OP2	61:1A:4215:HOH:O	1.97	0.82
1:1A:192:C:OP1	61:1A:4216:HOH:O	1.97	0.82
1:1A:1014:U:OP2	61:1A:4213:HOH:O	1.96	0.82
1:2A:2345:G:H4'	1:2A:2346:A:H5"	1.61	0.82
1:1A:881:G:N2	1:1A:897:C:O2	2.12	0.81
1:1A:2350:C:OP2	61:1A:4218:HOH:O	1.98	0.81
1:1A:1058:G:H1	1:1A:1080:C:N4	1.78	0.81
8:1I:77:LEU:HB3	8:1I:142:VAL:HG12	1.63	0.81
49:1r:32:ARG:HA	49:1r:69:THR:HG21	1.62	0.81
11:2P:52:GLU:OE1	11:2P:55:ARG:NH1	2.13	0.81
1:1A:1332:G:OP1	61:1A:4214:HOH:O	1.97	0.81
1:1A:2274:A:OP2	61:1A:4217:HOH:O	1.98	0.81
11:2P:39:LYS:HB2	11:2P:45:LEU:HD13	1.61	0.81
1:1A:1069:A:H1'	1:1A:1096:A:H4'	1.62	0.81
1:2A:1648:C:OP1	61:2A:3906:HOH:O	1.98	0.81
56:1y:51:U:H3	56:1y:63:G:H1	1.28	0.81
32:1a:718:G:H5'	42:1k:117:ASN:HB2	1.63	0.81
32:2a:157:G:H1	32:2a:164:U:H3	1.29	0.81
1:1A:467:G:OP1	29:17:33:ARG:NH1	2.14	0.80
52:1u:5:ASP:OD1	61:1u:101:HOH:O	1.98	0.80
6:2G:161:THR:HG22	6:2G:163:ALA:H	1.46	0.80
1:1A:2822:G:OP2	61:1A:4219:HOH:O	1.99	0.80
32:1a:903:G:OP1	61:1a:1904:HOH:O	1.98	0.80
56:2y:18:G:H22	56:2y:55:PSU:HN3	1.29	0.80
56:2y:55:PSU:HN1	56:2y:57:G:H5"	1.46	0.80
33:2b:63:MET:HG3	33:2b:225:ALA:HB1	1.64	0.80
40:2i:3:GLN:HE21	40:2i:20:ARG:HE	1.25	0.80
32:1a:975:A:H4'	32:1a:976:G:H5"	1.61	0.79
1:1A:2322:A:N6	61:1A:4232:HOH:O	2.08	0.79
1:2A:963:U:OP2	61:2A:3907:HOH:O	1.99	0.79
1:2A:1153:C:OP1	16:2U:92:ARG:NH2	2.15	0.79
1:2A:2138:C:N4	1:2A:2153:G:N1	2.28	0.79
2:2B:7:G:H21	14:2S:38:GLN:HE22	1.31	0.79
21:2Z:72:ARG:NH2	21:2Z:97:GLU:O	2.15	0.79
19:2X:53:LYS:HB3	19:2X:82:GLN:HB3	1.65	0.79
1:2A:2138:C:N3	1:2A:2153:G:N2	2.28	0.79
1:2A:81:G:H21	20:2Y:1:MET:HE2	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:47:VAL:HG11	4:2E:86:PRO:HD2	1.64	0.79
1:1A:668:G:N7	61:1A:4263:HOH:O	2.16	0.79
1:1A:1058:G:N2	1:1A:1080:C:N3	2.30	0.79
1:2A:948:G:OP1	61:2A:3907:HOH:O	2.01	0.79
40:2i:46:ALA:HB2	40:2i:74:ILE:HG23	1.65	0.79
32:2a:662:G:O2'	32:2a:836:G:OP1	2.00	0.78
32:1a:972:C:OP2	41:1j:57:LYS:NZ	2.14	0.78
1:1A:2756:U:O4	1:1A:2758:A:N6	2.16	0.78
14:1S:61:ASN:HD22	14:1S:64:GLU:HG3	1.47	0.78
32:2a:596:C:OP2	61:2a:1905:HOH:O	1.99	0.78
40:2i:9:ARG:HG2	40:2i:14:VAL:HG12	1.64	0.78
10:1O:48:PRO:HB3	32:1a:1422:G:H5"	1.63	0.78
32:2a:598:U:O4	61:2a:1905:HOH:O	1.99	0.78
55:1x:76:31H:OP2	61:1x:201:HOH:O	2.00	0.78
1:2A:1671:U:OP2	61:2A:3909:HOH:O	2.01	0.78
1:2A:2110:G:OP1	1:2A:2118:U:N3	2.15	0.78
29:27:8:ASN:HB3	29:27:11:LYS:HB3	1.66	0.78
40:2i:26:VAL:HG13	40:2i:61:ALA:HB3	1.64	0.78
14:1S:20:ARG:NH2	22:10:51:VAL:O	2.17	0.78
1:2A:568:U:O4	61:2A:3908:HOH:O	2.00	0.78
32:2a:975:A:H4'	32:2a:976:G:H5"	1.66	0.78
32:1a:1000:U:O4	32:1a:1041:A:N1	2.17	0.78
1:2A:1507:A:O2'	1:2A:1508:A:O4'	2.02	0.78
2:2B:10:C:O2	2:2B:111:G:N2	2.12	0.78
32:1a:504:C:OP1	61:1a:1906:HOH:O	2.02	0.78
10:2O:115:VAL:HG13	10:2O:121:VAL:HG21	1.66	0.77
14:2S:71:ARG:NH1	14:2S:107:GLU:OE1	2.17	0.77
32:1a:559:A:OP1	36:1e:126:ARG:NH2	2.17	0.77
8:2I:3:VAL:HG12	8:2I:38:LEU:HA	1.65	0.77
11:2P:91:PHE:O	11:2P:121:LYS:NZ	2.17	0.77
1:1A:1315:C:OP2	61:1A:4214:HOH:O	2.02	0.77
1:1A:2789:C:O2	1:1A:2894:G:N1	2.17	0.77
32:1a:636:U:H2'	32:1a:637:G:H8	1.49	0.77
1:2A:1035:U:O4	61:2A:3911:HOH:O	2.01	0.77
1:1A:602:G:O2'	1:1A:655:A:N6	2.17	0.77
1:1A:1057:A:H61	1:1A:1081:U:H3	1.33	0.77
32:1a:1027:C:C2	32:1a:1034:G:N2	2.53	0.77
1:1A:1649:G:O2'	13:1R:107:ASP:OD2	2.03	0.77
1:2A:2064:C:OP2	61:2A:3912:HOH:O	2.02	0.77
1:2A:83:G:H1	1:2A:102:G:HO2'	1.33	0.77
1:2A:586:A:N1	1:2A:809:G:O2'	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:189:ASP:OD1	33:2b:189:ASP:N	2.18	0.77
40:2i:128:ARG:NH2	55:2x:33:U:OP2	2.17	0.77
7:1H:3:ARG:HH11	7:1H:4:ILE:H	1.33	0.77
1:2A:1253:A:OP1	61:2A:3913:HOH:O	2.02	0.77
1:1A:1041:C:H42	1:1A:1114:G:H1	1.31	0.77
1:1A:2136:C:N3	1:1A:2155:G:C2	2.53	0.77
34:1c:15:THR:HG21	34:1c:181:ASN:HA	1.67	0.77
1:1A:1670:C:OP1	61:1A:4221:HOH:O	2.03	0.76
1:2A:652(A):A:H3'	1:2A:652(B):A:H5"	1.66	0.76
1:2A:1798:U:H5'	3:2D:259:THR:HG22	1.66	0.76
2:2B:50:G:OP1	14:2S:63:THR:OG1	2.04	0.76
32:2a:628:G:O6	61:2a:1906:HOH:O	2.03	0.76
56:2y:15:G:H22	56:2y:48:C:N4	1.82	0.76
1:1A:1059:G:H1	1:1A:1079:C:N4	1.82	0.76
1:2A:2134:A:O2'	1:2A:2159:G:N2	2.18	0.76
32:2a:1316:G:H22	32:2a:1319:A:H5"	1.49	0.76
1:1A:587:C:OP2	11:1P:21:ARG:NH2	2.18	0.76
1:1A:668:G:OP2	61:1A:4220:HOH:O	2.03	0.76
32:1a:955:U:O4	61:1a:1905:HOH:O	2.02	0.76
1:2A:1193:G:OP1	11:2P:14:LYS:NZ	2.19	0.76
1:2A:2049:G:OP2	61:2A:3910:HOH:O	2.01	0.76
1:1A:2303:G:O6	61:1A:4222:HOH:O	2.04	0.76
32:1a:1255:G:N7	41:1j:43:ARG:NH2	2.33	0.76
17:2V:40:LEU:HB2	17:2V:46:VAL:HG13	1.68	0.76
21:1Z:128:VAL:HG23	21:1Z:161:VAL:HG12	1.66	0.76
50:1s:27:GLU:HB2	50:1s:28:LYS:HA	1.67	0.76
1:2A:2782:G:OP2	61:2A:3915:HOH:O	2.03	0.76
32:2a:922:G:H4'	36:2e:20:GLN:HA	1.68	0.76
26:14:55:ARG:H	26:14:56:VAL:HA	1.50	0.76
32:1a:1025:U:O2	32:1a:1036:G:O6	2.04	0.76
54:2w:4:C:N3	54:2w:69:G:N2	2.34	0.76
1:1A:1566:A:OP1	3:1D:211:ARG:NH1	2.19	0.76
32:2a:953:G:H5'	32:2a:965:A:H61	1.51	0.76
33:2b:16:HIS:HB3	33:2b:210:SER:HB2	1.67	0.76
32:2a:650:G:O6	61:2a:1907:HOH:O	2.03	0.75
32:1a:1300:G:N7	61:1a:1926:HOH:O	2.19	0.75
1:2A:1670:C:OP1	61:2A:3909:HOH:O	2.03	0.75
1:2A:2079:U:OP1	23:21:21:ARG:NH2	2.19	0.75
1:2A:2690:C:OP1	13:2R:17:ARG:NH2	2.20	0.75
11:2P:59:LEU:HD11	30:28:10:ALA:HB2	1.69	0.75
24:22:46:GLN:HB2	24:22:49:LYS:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1128:C:H1'	32:2a:1147:C:H42	1.51	0.75
33:2b:18:GLY:HA2	33:2b:42:ILE:HG13	1.68	0.75
1:1A:818:G:O6	61:1A:4225:HOH:O	2.05	0.75
5:1F:64:ILE:HG21	5:1F:78:ILE:HG23	1.69	0.75
32:2a:562:C:H1'	43:2l:15:ARG:HB3	1.67	0.75
1:2A:271(P):C:OP1	8:2I:45:LYS:NZ	2.19	0.75
1:2A:1156:A:OP2	61:2A:3914:HOH:O	2.03	0.75
1:2A:1993:U:OP2	61:2A:3916:HOH:O	2.03	0.75
16:2U:52:ARG:HA	16:2U:55:ARG:HD3	1.69	0.75
38:2g:20:ASP:HB3	38:2g:23:VAL:HB	1.69	0.75
49:2r:32:ARG:HA	49:2r:69:THR:HG21	1.68	0.75
1:1A:2577:A:OP2	27:15:3:LYS:NZ	2.19	0.75
1:2A:400:G:N7	61:2A:3965:HOH:O	2.18	0.74
34:2c:155:GLY:HA3	34:2c:196:LEU:HB3	1.69	0.74
1:1A:2140:C:H2'	1:1A:2141:G:H8	1.53	0.74
32:2a:1051:C:H42	32:2a:1207:2MG:HN1	1.32	0.74
1:1A:759:G:OP2	61:1A:4224:HOH:O	2.04	0.74
2:1B:66:A:H61	2:1B:109:C:H5'	1.53	0.74
1:2A:1891:G:O6	61:2A:3917:HOH:O	2.05	0.74
32:2a:1312:G:H5'	50:2s:5:LEU:HD11	1.69	0.74
1:1A:2428:G:OP1	61:1A:4211:HOH:O	2.05	0.74
1:1A:1469:A:OP2	61:1A:4223:HOH:O	2.04	0.74
1:1A:2121:G:H1	1:1A:2177:C:H42	1.33	0.74
9:1N:62:VAL:HG22	9:1N:66:LYS:HZ2	1.52	0.74
32:1a:1086:U:H3	32:1a:1099:G:H22	1.35	0.74
37:2f:46:ARG:HH22	49:2r:37:VAL:HG11	1.50	0.74
1:1A:365:C:OP2	61:1A:4228:HOH:O	2.06	0.74
2:1B:105:A:OP1	21:1Z:72:ARG:NH1	2.21	0.74
1:1A:2163:C:OP1	1:1A:2165:G:N2	2.21	0.74
56:1y:15:G:N2	56:1y:48:C:H42	1.85	0.74
1:1A:1342:A:OP2	61:1A:4212:HOH:O	2.06	0.73
1:1A:1419:A:N6	1:1A:1578:U:O2	2.19	0.73
1:1A:2612:C:OP2	27:15:2:ALA:N	2.21	0.73
32:1a:653:A:OP1	39:1h:56:LYS:NZ	2.21	0.73
32:1a:664:G:H22	32:1a:741:G:H1	1.36	0.73
33:1b:52:GLU:HG2	33:1b:56:ARG:HH12	1.52	0.73
1:2A:1204:A:H2	1:2A:1241:A:H62	1.34	0.73
1:2A:2131:G:H1	1:2A:2158:A:H62	1.35	0.73
9:2N:128:HIS:O	9:2N:131:GLN:NE2	2.20	0.73
32:2a:1117:G:N2	32:2a:1180:A:O2'	2.21	0.73
37:2f:9:VAL:HB	37:2f:87:ARG:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:116:ASP:OD1	5:1F:119:ARG:NH2	2.20	0.73
1:2A:833:U:O2	11:2P:55:ARG:NH2	2.22	0.73
32:1a:542:G:OP1	35:1d:10:ARG:NH2	2.20	0.73
1:2A:72:U:OP1	61:2A:3920:HOH:O	2.06	0.73
44:2m:107:ALA:HB3	44:2m:111:LYS:HE2	1.67	0.73
1:1A:1817:G:OP1	3:1D:88:ARG:NH2	2.22	0.73
1:1A:2537:U:OP2	61:1A:4226:HOH:O	2.06	0.73
1:1A:2810:A:N6	1:1A:2891:G:O2'	2.21	0.73
11:1P:39:LYS:HB2	11:1P:45:LEU:HD13	1.69	0.73
42:1k:48:ILE:O	42:1k:50:TYR:N	2.21	0.73
33:2b:16:HIS:HB2	33:2b:204:ASN:HB3	1.70	0.73
40:2i:40:LEU:HD11	40:2i:70:LYS:HD2	1.69	0.73
32:1a:316:G:OP2	32:1a:351:G:O2'	2.07	0.73
1:2A:1210:A:H4'	1:2A:1211:U:H5"	1.69	0.73
1:2A:2319:G:H22	14:2S:3:ARG:HH11	1.36	0.73
32:2a:1316:G:N7	50:2s:7:LYS:NZ	2.36	0.73
1:2A:481:G:N7	61:2A:3986:HOH:O	2.21	0.73
21:1Z:156:LYS:HE3	21:1Z:158:PRO:HD3	1.69	0.73
1:1A:2136:C:N4	1:1A:2155:G:N1	2.37	0.73
33:1b:82:ARG:NH1	33:1b:92:TYR:OH	2.17	0.73
54:1w:26:A:N6	54:1w:44:G:H1	1.85	0.73
1:1A:2102:U:H3	1:1A:2187:G:H1	1.36	0.72
4:1E:70:ALA:O	4:1E:72:VAL:N	2.22	0.72
5:1F:165:ARG:HG2	5:1F:168:ARG:HH21	1.53	0.72
1:2A:2759:G:OP2	61:2A:3919:HOH:O	2.06	0.72
41:2j:6:ILE:HB	41:2j:72:VAL:HG22	1.71	0.72
1:1A:272(J):C:H2'	1:1A:274:G:H8	1.55	0.72
4:1E:122:PHE:O	61:1E:402:HOH:O	2.08	0.72
24:22:22:GLU:OE2	24:22:68:ARG:NH2	2.23	0.72
41:1j:81:THR:HG22	41:1j:85:LEU:HG	1.71	0.72
32:1a:998:G:H1	32:1a:1043:C:H42	1.35	0.72
44:1m:19:LEU:HD11	44:1m:56:LEU:HD21	1.70	0.72
1:1A:2337:G:OP1	61:1A:4230:HOH:O	2.08	0.72
36:1e:78:HIS:HD2	39:1h:104:ARG:HD2	1.55	0.72
1:2A:81:G:N7	61:2A:3982:HOH:O	2.21	0.72
1:2A:1452:A:OP2	61:2A:3922:HOH:O	2.07	0.72
1:2A:2316:C:O2'	6:2G:128:ARG:NH2	2.23	0.72
21:2Z:19:ARG:NH1	21:2Z:84:GLU:O	2.23	0.72
25:13:35:ARG:HE	25:13:37:LEU:HD21	1.53	0.72
1:2A:2060:A:N3	61:2A:3989:HOH:O	2.22	0.72
4:2E:119:ARG:HD2	4:2E:160:TYR:HB2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:182:ILE:HG12	34:2c:203:PHE:HD1	1.54	0.72
1:1A:409:C:OP1	61:1A:4227:HOH:O	2.06	0.72
1:1A:582:G:N7	61:1A:4303:HOH:O	2.22	0.72
36:1e:78:HIS:CE1	36:1e:143:ARG:H	2.05	0.72
48:1q:66:SER:O	48:1q:70:ARG:NH1	2.22	0.72
22:20:10:THR:HG22	22:20:12:ASN:H	1.55	0.72
32:1a:1136:U:H5"	32:1a:1137:C:C4	2.25	0.72
36:1e:74:GLY:HA3	36:1e:116:THR:HG22	1.71	0.72
32:2a:1318:A:OP1	50:2s:3:ARG:NH2	2.20	0.72
1:1A:1237:A:OP1	61:1A:4234:HOH:O	2.08	0.72
1:1A:1418:G:OP2	61:1A:4231:HOH:O	2.08	0.72
1:2A:2822:G:OP2	61:2A:3918:HOH:O	2.06	0.72
1:1A:2136:C:N3	1:1A:2155:G:N2	2.38	0.71
32:1a:1370:G:N7	61:1a:1934:HOH:O	2.23	0.71
1:2A:2108:C:N3	1:2A:2181:G:N2	2.36	0.71
36:2e:100:VAL:O	36:2e:107:ARG:NH2	2.20	0.71
39:2h:85:ARG:NH1	39:2h:87:SER:O	2.22	0.71
3:2D:108:PRO:HB3	3:2D:143:HIS:HE1	1.53	0.71
41:2j:8:LEU:HD13	41:2j:96:ILE:HG12	1.70	0.71
1:1A:1062:G:H8	1:1A:1070:A:H4'	1.55	0.71
39:1h:10:LEU:HD22	39:1h:83:ILE:HD11	1.72	0.71
1:2A:1634:A:OP1	61:2A:3923:HOH:O	2.07	0.71
1:2A:2448:A:OP1	61:2A:3921:HOH:O	2.07	0.71
25:23:5:LYS:NZ	25:23:34:GLU:OE2	2.24	0.71
32:2a:1119:C:OP2	40:2i:9:ARG:NH1	2.22	0.71
38:1g:37:ASN:HD21	40:1i:40:LEU:HA	1.56	0.71
13:2R:33:ARG:NH1	13:2R:115:GLU:OE1	2.23	0.71
1:1A:2226:C:OP2	61:1A:4238:HOH:O	2.09	0.71
11:1P:59:LEU:HD11	30:18:10:ALA:HB2	1.71	0.71
13:2R:97:VAL:HG22	13:2R:114:VAL:HG13	1.71	0.71
41:1j:49:VAL:HB	45:1n:41:ARG:HB2	1.70	0.71
1:2A:2736:G:N2	1:2A:2768:C:O2	2.16	0.71
8:2I:31:LEU:HD21	8:2I:38:LEU:HG	1.73	0.71
32:2a:393:A:OP1	61:2a:1908:HOH:O	2.09	0.71
40:2i:21:PRO:HA	40:2i:59:PHE:HA	1.73	0.71
1:1A:2550:G:OP1	61:1A:4233:HOH:O	2.08	0.71
32:1a:1027:C:N3	32:1a:1034:G:N2	2.38	0.71
1:1A:1693:U:O2'	3:1D:14:ARG:NH2	2.24	0.71
1:1A:2124:G:N2	1:1A:2174:C:N3	2.39	0.71
1:2A:583:G:N7	61:2A:3997:HOH:O	2.24	0.71
32:2a:1029:C:N3	32:2a:1032:G:N2	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2i:4:TYR:HB2	40:2i:19:LEU:HB2	1.73	0.71
32:1a:330:C:O2	61:1a:1908:HOH:O	2.07	0.71
1:2A:2127:G:C2	1:2A:2161:C:N3	2.58	0.71
32:1a:1414:U:O4	61:1a:1907:HOH:O	2.05	0.71
32:2a:712:A:N6	61:2a:1931:HOH:O	2.23	0.71
32:2a:1226:C:OP2	44:2m:91:ARG:NH1	2.24	0.71
1:1A:998:C:OP1	61:1A:4229:HOH:O	2.07	0.70
1:2A:1824:G:N3	3:2D:254:THR:OG1	2.24	0.70
1:2A:570:G:O6	61:2A:3921:HOH:O	2.09	0.70
1:1A:1143:A:OP2	61:1A:4235:HOH:O	2.08	0.70
46:1o:18:PHE:O	46:1o:20:GLY:N	2.24	0.70
14:2S:23:ARG:NH1	14:2S:85:VAL:O	2.23	0.70
26:14:55:ARG:N	26:14:56:VAL:HA	2.07	0.70
56:1y:37:MIA:H2'	56:1y:38:A:C8	2.26	0.70
13:2R:67:LEU:HD13	13:2R:76:VAL:HG21	1.72	0.70
41:1j:8:LEU:HD22	41:1j:96:ILE:HG22	1.71	0.70
1:2A:1022:G:H22	1:2A:1142(A):A:H2	1.37	0.70
32:1a:1505:G:OP2	61:1a:1909:HOH:O	2.09	0.70
21:2Z:154:ASP:N	21:2Z:154:ASP:OD1	2.25	0.70
32:2a:769:G:N7	61:2a:1936:HOH:O	2.24	0.70
1:1A:1798:U:H5'	3:1D:259:THR:HG22	1.73	0.70
17:1V:40:LEU:HB2	17:1V:46:VAL:HG13	1.74	0.70
1:2A:2129:C:H42	1:2A:2159:G:H1	1.37	0.70
1:1A:307:G:N7	61:1A:4323:HOH:O	2.25	0.70
1:1A:2801(A):A:H1'	1:1A:2895:U:H1'	1.72	0.70
2:1B:21:G:N7	61:1B:303:HOH:O	2.25	0.70
32:1a:278:G:OP2	48:1q:92:ARG:NH2	2.25	0.70
32:1a:812:C:N3	61:1a:1939:HOH:O	2.25	0.70
32:1a:1246:C:H42	32:1a:1291:G:H1	1.40	0.70
1:2A:1710:C:O2	1:2A:1748:G:N2	2.20	0.70
1:2A:2162:G:H4'	1:2A:2172:U:H2'	1.72	0.70
32:2a:157:G:N2	32:2a:164:U:O2	2.18	0.70
56:2y:9:A:HO2'	56:2y:11:C:H41	1.40	0.70
1:1A:1541:G:OP2	61:1A:4236:HOH:O	2.08	0.69
4:1E:101:ARG:HG2	4:1E:169:ASN:OD1	1.92	0.69
35:1d:205:GLU:OE2	36:1e:107:ARG:NH1	2.24	0.69
1:2A:651:G:OP1	30:28:19:SER:OG	2.10	0.69
1:2A:794:G:OP1	61:2A:3924:HOH:O	2.08	0.69
1:2A:2136:C:N3	1:2A:2155:G:N2	2.39	0.69
32:2a:1102:A:O3'	33:2b:96:ARG:NH2	2.25	0.69
1:2A:631:A:OP1	11:2P:65:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:279:C:H42	1:1A:361:G:H1	1.39	0.69
1:1A:2276:G:N7	61:1A:4317:HOH:O	2.24	0.69
36:1e:8:GLU:OE2	36:1e:63:ARG:NH2	2.24	0.69
1:2A:686:G:OP2	61:2A:3930:HOH:O	2.11	0.69
1:2A:2206:G:H3'	1:2A:2207:G:C8	2.27	0.69
32:2a:909:A:N3	32:2a:1413:A:O2'	2.25	0.69
32:2a:1089:G:H1	32:2a:1096:C:H42	1.40	0.69
46:1o:11:VAL:HG21	46:1o:34:LEU:HD22	1.74	0.69
1:2A:301:G:OP2	20:2Y:84:ARG:NH2	2.24	0.69
15:2T:105:LEU:HD22	15:2T:109:GLU:HB3	1.73	0.69
27:25:41:PRO:O	27:25:44:THR:OG1	2.10	0.69
47:2p:1:MET:HE3	47:2p:3:LYS:HD3	1.75	0.69
1:1A:784:A:N6	3:1D:229:VAL:HG11	2.08	0.69
1:2A:2639:A:OP2	61:2A:3925:HOH:O	2.09	0.69
32:2a:376:G:H5"	47:2p:5:ARG:HB2	1.73	0.69
32:2a:1029:C:N4	32:2a:1032:G:N1	2.41	0.69
4:1E:105:THR:OG1	4:1E:199:ARG:NH2	2.25	0.69
1:2A:1024:G:OP2	61:2A:3931:HOH:O	2.11	0.69
32:2a:559:A:OP1	36:2e:126:ARG:NH2	2.26	0.69
41:1j:7:LYS:HE3	41:1j:9:ARG:HH12	1.56	0.69
56:1y:15:G:H22	56:1y:48:C:N4	1.88	0.69
32:2a:1347:G:N2	32:2a:1374:A:O5'	2.26	0.69
36:1e:145:LYS:HA	36:1e:148:VAL:HG22	1.74	0.69
1:2A:1271:G:OP2	61:2A:3906:HOH:O	2.10	0.69
1:2A:1693:U:O2'	3:2D:14:ARG:NH2	2.25	0.69
34:2c:134:ILE:HG23	34:2c:151:VAL:HB	1.75	0.69
40:1i:17:VAL:HG23	40:1i:63:ILE:HG12	1.74	0.69
51:1t:42:GLN:NE2	51:1t:46:GLU:OE2	2.26	0.69
40:2i:102:LEU:HD12	40:2i:103:THR:HG22	1.74	0.69
1:1A:2375:G:O2'	1:1A:2377:A:N7	2.22	0.68
32:1a:1047:G:H5"	45:1n:4:LYS:HD3	1.74	0.68
1:2A:1444:G:N7	61:2A:3999:HOH:O	2.24	0.68
44:2m:25:ILE:HD11	44:2m:66:LEU:HD13	1.73	0.68
32:1a:564:C:HO2'	39:1h:91:ARG:HH22	1.40	0.68
1:2A:2166:G:H3'	1:2A:2167:U:H5"	1.74	0.68
4:2E:28:ALA:HB3	4:2E:93:VAL:HG12	1.74	0.68
1:1A:278:A:O2'	1:1A:279:C:OP1	2.09	0.68
32:1a:1435:G:H2'	32:1a:1436:U:C6	2.29	0.68
40:1i:53:VAL:O	40:1i:55:ALA:N	2.26	0.68
54:1w:58:A:N6	61:1w:201:HOH:O	2.25	0.68
1:2A:2431:U:OP2	61:2A:3926:HOH:O	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2143:C:N4	1:2A:2148:G:H1	1.90	0.68
1:2A:2518:A:OP2	61:2A:3927:HOH:O	2.10	0.68
1:2A:2529:G:O6	31:29:31:LYS:NZ	2.26	0.68
7:2H:7:LEU:HD12	7:2H:8:PRO:HD2	1.73	0.68
8:2I:4:ILE:HG12	8:2I:18:VAL:HG22	1.75	0.68
56:2y:15:G:N1	56:2y:48:C:N3	2.41	0.68
1:1A:1203:G:O6	61:1A:4241:HOH:O	2.11	0.68
1:1A:2277:G:OP2	22:10:10:THR:HG21	1.93	0.68
39:1h:96:GLY:N	39:1h:99:GLU:OE2	2.27	0.68
1:2A:793:A:O2'	61:2A:3928:HOH:O	2.10	0.68
9:2N:67:LEU:HB3	9:2N:88:GLU:HG3	1.75	0.68
32:2a:572:A:OP2	61:2a:1912:HOH:O	2.12	0.68
34:2c:180:ALA:HB1	34:2c:182:ILE:HG13	1.75	0.68
1:1A:72:U:OP1	61:1A:4245:HOH:O	2.11	0.68
1:1A:762:U:OP1	61:1A:4240:HOH:O	2.10	0.68
1:1A:1013:C:OP2	61:1A:4213:HOH:O	2.11	0.68
1:1A:1055:G:H1	1:1A:1104:C:N4	1.90	0.68
23:21:3:LYS:HB2	23:21:61:ARG:HH22	1.58	0.68
1:1A:2393:A:H5"	11:1P:63:PRO:HB3	1.74	0.68
7:1H:3:ARG:NH1	7:1H:5:GLY:H	1.91	0.68
1:2A:89:G:H3'	1:2A:90:U:H5"	1.75	0.68
1:2A:933:A:OP1	25:23:24:LYS:NZ	2.26	0.68
33:2b:144:ARG:NH2	33:2b:148:TYR:OH	2.27	0.68
3:1D:12:SER:HB3	3:1D:208:LYS:HB3	1.76	0.68
38:1g:50:ILE:HD11	38:1g:61:VAL:HG21	1.76	0.68
1:2A:1830:C:OP2	61:2A:3934:HOH:O	2.12	0.68
1:2A:2110:G:H3'	1:2A:2111:C:H5'	1.76	0.68
21:2Z:124:ILE:HG22	21:2Z:126:VAL:HG23	1.75	0.68
32:2a:48:C:OP2	61:2a:1909:HOH:O	2.11	0.68
32:2a:560:U:OP2	61:2a:1910:HOH:O	2.11	0.68
5:1F:53:THR:HG23	5:1F:55:GLY:H	1.58	0.68
10:1O:2:ILE:HD12	10:1O:6:THR:HG21	1.76	0.68
45:2n:26:ARG:HD3	45:2n:43:CYS:HB3	1.76	0.68
1:1A:1647:G:OP1	61:1A:4215:HOH:O	2.12	0.68
32:1a:545:C:OP1	35:1d:61:LYS:NZ	2.25	0.68
32:2a:115:G:OP2	61:2a:1913:HOH:O	2.12	0.68
1:1A:592:G:O6	61:1A:4242:HOH:O	2.11	0.67
1:1A:642:G:OP1	61:1A:4244:HOH:O	2.11	0.67
35:1d:166:LYS:NZ	35:1d:179:GLU:OE2	2.26	0.67
51:1t:33:ILE:O	51:1t:37:SER:OG	2.12	0.67
25:23:15:TYR:O	25:23:20:LYS:NZ	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:175:SER:HB3	35:2d:186:LEU:HD11	1.74	0.67
1:1A:2787:C:H1'	4:1E:62:PRO:HG3	1.76	0.67
5:2F:21:ALA:HB3	5:2F:22:ALA:HA	1.75	0.67
18:2W:34:ASN:OD1	18:2W:37:ARG:NH2	2.27	0.67
33:2b:69:LEU:HB3	33:2b:162:ILE:HG22	1.76	0.67
1:1A:2718:G:N7	61:1A:4331:HOH:O	2.26	0.67
32:1a:405:U:O4	35:1d:2:GLY:N	2.27	0.67
1:2A:423:A:OP1	61:2A:3935:HOH:O	2.12	0.67
1:2A:731:C:OP1	61:2A:3929:HOH:O	2.10	0.67
32:2a:820:U:OP1	61:2a:1911:HOH:O	2.12	0.67
43:1l:117:ARG:HB3	43:1l:122:THR:HB	1.75	0.67
20:2Y:39:VAL:HB	20:2Y:42:VAL:HB	1.76	0.67
1:1A:301:G:OP2	20:1Y:84:ARG:NH2	2.27	0.67
5:1F:89:VAL:O	61:1F:401:HOH:O	2.11	0.67
21:1Z:10:ARG:HG3	21:1Z:36:LYS:HB3	1.77	0.67
1:2A:962:G:OP1	61:2A:3907:HOH:O	2.12	0.67
1:2A:2439:A:N6	55:2x:76:31H:OP1	2.26	0.67
5:2F:185:ASP:HA	5:2F:188:ARG:HD3	1.77	0.67
17:2V:98:GLU:OE2	17:2V:100:ARG:NH1	2.28	0.67
32:2a:1133:G:H1	32:2a:1141:C:H42	1.39	0.67
32:2a:1279:A:H4'	32:2a:1280:A:OP1	1.95	0.67
37:2f:67:MET:HE1	37:2f:75:LEU:HD22	1.77	0.67
1:1A:607:U:OP1	5:1F:102:PRO:HA	1.94	0.67
1:1A:1023:U:OP2	61:1A:4239:HOH:O	2.10	0.67
1:1A:1650:G:OP2	61:1A:4246:HOH:O	2.13	0.67
32:1a:159:G:N2	32:1a:162:A:OP2	2.28	0.67
32:2a:504:C:OP1	61:2a:1914:HOH:O	2.12	0.67
34:2c:131:ARG:HE	34:2c:135:LYS:HZ2	1.40	0.67
1:1A:1017:G:N7	61:1A:4345:HOH:O	2.28	0.67
1:2A:912:C:OP1	12:2Q:8:LYS:NZ	2.24	0.67
1:2A:1021:A:H62	1:2A:1141:U:H3	1.41	0.67
1:2A:2107:C:N3	1:2A:2182:G:O6	2.28	0.67
1:2A:2677:G:N3	61:2A:4018:HOH:O	2.27	0.67
28:26:14:THR:HG21	28:26:50:ARG:HH11	1.60	0.67
32:2a:194:C:H2'	32:2a:195:A:H5"	1.77	0.67
1:1A:2156:G:OP2	1:1A:2156:G:H8	1.76	0.67
32:1a:812:C:O2	61:1a:1910:HOH:O	2.11	0.67
26:24:14:ILE:HB	26:24:22:ILE:HB	1.77	0.67
13:1R:86:ARG:NH2	13:1R:87:TYR:OH	2.28	0.67
1:2A:859:G:N2	1:2A:917:A:OP2	2.27	0.67
1:2A:2017:U:OP2	61:2A:3936:HOH:O	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2T:73:GLU:OE2	15:2T:103:ARG:NE	2.27	0.67
32:2a:1029:C:C2	32:2a:1032:G:N2	2.63	0.67
1:1A:1094:U:H1'	1:1A:1097:U:C5	2.29	0.67
44:2m:67:GLU:HG2	44:2m:71:ARG:HH22	1.60	0.67
1:2A:84:A:N1	1:2A:98:G:O2'	2.27	0.66
1:2A:751:A:H5'	18:2W:90:ARG:HA	1.75	0.66
54:2w:51:U:H2'	54:2w:52:G:H8	1.59	0.66
32:1a:1004:A:H5"	32:1a:1024:G:H22	1.60	0.66
32:1a:1027:C:H5	32:1a:1028:C:C4	2.12	0.66
39:1h:41:ARG:NH2	39:1h:123:GLU:OE2	2.27	0.66
1:2A:425:G:N7	61:2A:4031:HOH:O	2.28	0.66
1:2A:2183:C:H2'	1:2A:2184:G:C8	2.27	0.66
1:2A:2839:G:H5'	13:2R:46:GLY:HA2	1.77	0.66
2:2B:2:C:N4	2:2B:119:G:O6	2.28	0.66
5:2F:53:THR:HG23	5:2F:55:GLY:H	1.60	0.66
32:1a:1052:U:OP2	61:1a:1912:HOH:O	2.13	0.66
32:1a:1084:G:OP2	61:1a:1911:HOH:O	2.12	0.66
8:2I:77:LEU:HB3	8:2I:142:VAL:HG13	1.78	0.66
54:2w:68:C:H2'	54:2w:69:G:C8	2.29	0.66
32:1a:236:G:OP1	48:1q:40:LYS:NZ	2.29	0.66
1:2A:2063:C:OP1	61:2A:3912:HOH:O	2.12	0.66
1:2A:2879:C:OP2	61:2A:3932:HOH:O	2.11	0.66
32:2a:573:A:OP2	61:2a:1912:HOH:O	2.14	0.66
32:2a:601:C:O2	32:2a:637:G:N2	2.16	0.66
1:1A:1183:G:O2'	25:13:29:ARG:NH1	2.27	0.66
32:1a:1500:A:OP2	61:1a:1914:HOH:O	2.13	0.66
51:1t:10:LEU:HB3	51:1t:12:ALA:H	1.58	0.66
1:2A:2127:G:N1	1:2A:2161:C:C4	2.64	0.66
3:2D:2:ALA:N	3:2D:200:ASP:OD2	2.29	0.66
5:2F:132:VAL:HA	5:2F:138:GLU:HB3	1.77	0.66
26:24:26:SER:OG	26:24:27:THR:N	2.28	0.66
32:2a:1510:U:H2'	32:2a:1511:G:C8	2.30	0.66
56:2y:14:A:O2'	56:2y:15:G:OP1	2.12	0.66
1:2A:109:G:N7	61:2A:4024:HOH:O	2.27	0.66
32:2a:701:C:OP1	32:2a:702:A:O2'	2.14	0.66
42:2k:48:ILE:O	42:2k:50:TYR:N	2.28	0.66
56:2y:21:A:OP1	61:2y:201:HOH:O	2.13	0.66
1:1A:817:C:OP1	61:1A:4249:HOH:O	2.13	0.66
1:1A:1891:G:O6	61:1A:4243:HOH:O	2.11	0.66
10:1O:110:GLY:HA2	10:1O:112:MET:HE2	1.78	0.66
32:1a:711:G:OP1	37:1f:54:LYS:NZ	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:92:TYR:CE2	33:2b:151:GLY:HA3	2.30	0.66
41:2j:44:VAL:HG22	41:2j:66:ARG:HG2	1.77	0.66
1:1A:574:C:N3	4:1E:145:LYS:NZ	2.42	0.66
50:1s:63:THR:OG1	50:1s:65:ASN:OD1	2.14	0.66
1:2A:586:A:OP2	61:2A:3933:HOH:O	2.12	0.66
1:1A:253:C:O2'	61:1A:4251:HOH:O	2.14	0.66
1:1A:2305:A:H5"	6:1G:134:GLY:HA3	1.77	0.66
54:1w:18:G:O2'	54:1w:57:G:N2	2.24	0.66
1:2A:203:C:OP1	61:2A:3947:HOH:O	2.14	0.66
32:2a:826:C:O2	39:2h:15:ASN:ND2	2.29	0.66
6:1G:38:VAL:HG22	6:1G:93:THR:HG23	1.78	0.66
32:1a:1314:C:OP2	50:1s:4:SER:OG	2.13	0.66
56:1y:68:C:H2'	56:1y:69:G:H5"	1.78	0.66
1:2A:253:C:O2'	61:2A:3944:HOH:O	2.14	0.66
7:2H:24:VAL:HG22	7:2H:35:VAL:HB	1.78	0.66
1:1A:1007:C:OP2	61:1A:4252:HOH:O	2.14	0.65
1:1A:2748:A:H5'	7:1H:4:ILE:HD12	1.78	0.65
32:1a:134:A:H61	47:1p:25:ARG:HH12	1.44	0.65
32:1a:574:A:OP2	61:1a:1915:HOH:O	2.14	0.65
32:1a:953:G:H5'	32:1a:965:A:H61	1.60	0.65
32:1a:1373:G:H5"	38:1g:36:LYS:HE2	1.78	0.65
1:2A:643:A:N1	1:2A:2369:A:O2'	2.27	0.65
1:2A:900:A:O2'	1:2A:901:A:OP1	2.13	0.65
1:2A:1785:A:OP1	61:2A:3942:HOH:O	2.13	0.65
1:2A:2816:C:O3'	13:2R:99:LYS:NZ	2.29	0.65
1:1A:760:G:OP1	61:1A:4253:HOH:O	2.14	0.65
1:1A:2422:A:O4'	56:1y:76:A:N6	2.30	0.65
1:1A:2448:A:OP1	61:1A:4210:HOH:O	2.14	0.65
8:1I:69:LYS:HA	8:1I:138:ILE:HG12	1.79	0.65
36:1e:33:VAL:HG13	36:1e:112:LEU:HD12	1.77	0.65
1:2A:861:A:OP2	61:2A:3943:HOH:O	2.13	0.65
1:2A:1833:U:OP1	61:2A:3938:HOH:O	2.13	0.65
1:2A:2319:G:H22	14:2S:3:ARG:NH1	1.95	0.65
1:2A:2438:U:O2'	1:2A:2440:C:OP1	2.14	0.65
33:2b:212:GLN:NE2	33:2b:234:PRO:O	2.29	0.65
41:2j:69:ASN:O	41:2j:70:ARG:NH1	2.30	0.65
1:1A:1779:U:OP2	61:1A:4255:HOH:O	2.14	0.65
1:1A:2227:A:OP2	61:1A:4257:HOH:O	2.15	0.65
21:1Z:11:GLU:O	21:1Z:36:LYS:NZ	2.29	0.65
32:1a:265:G:H2'	32:1a:267:C:H5	1.61	0.65
32:1a:576:G:O6	32:1a:880:C:O2'	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1027:C:N4	32:1a:1034:G:N1	2.43	0.65
1:2A:2150:U:H2'	1:2A:2151:G:H8	1.62	0.65
1:2A:2454:G:O6	61:2A:3940:HOH:O	2.13	0.65
1:1A:2608:G:N7	61:1A:4341:HOH:O	2.27	0.65
1:2A:675:A:OP1	5:2F:63:LYS:NZ	2.28	0.65
15:2T:108:ARG:NH2	32:2a:1465:C:OP2	2.25	0.65
23:21:23:LYS:HB3	23:21:29:GLY:HA3	1.79	0.65
41:2j:49:VAL:HG23	45:2n:41:ARG:HB2	1.77	0.65
42:2k:110:ASP:HB3	49:2r:85:LEU:HB3	1.79	0.65
1:1A:2702:U:OP2	61:1A:4258:HOH:O	2.15	0.65
7:1H:94:TYR:OH	7:1H:152:ARG:NH1	2.30	0.65
7:1H:124:GLU:OE2	7:1H:134:SER:OG	2.12	0.65
1:1A:946:G:OP1	61:1A:4248:HOH:O	2.13	0.65
1:1A:1041:C:N4	1:1A:1114:G:H1	1.95	0.65
1:1A:1245:G:OP1	11:1P:13:ASN:ND2	2.24	0.65
1:1A:2441:C:OP2	1:1A:2586:C:O2'	2.14	0.65
1:1A:2874:C:OP1	61:1A:4250:HOH:O	2.14	0.65
32:1a:1083:U:OP1	61:1a:1913:HOH:O	2.13	0.65
32:2a:656:C:O2'	46:2o:28:GLN:OE1	2.11	0.65
32:2a:1286:A:C8	32:2a:1287:A:H4'	2.32	0.65
1:1A:2123:G:H2'	1:1A:2124:G:C8	2.31	0.65
1:2A:975:C:OP1	61:2A:3939:HOH:O	2.13	0.65
33:2b:76:GLN:NE2	33:2b:206:ASP:O	2.30	0.65
39:2h:14:ARG:NH2	39:2h:83:ILE:O	2.29	0.65
49:1r:38:GLU:HA	49:1r:41:LYS:HE2	1.79	0.65
1:2A:686:G:N2	1:2A:788:A:H61	1.94	0.65
1:2A:2054:A:OP1	1:2A:2055:C:O2'	2.13	0.65
42:2k:54:ARG:HH22	56:2y:40:C:H5'	1.61	0.65
46:2o:5:LYS:O	46:2o:9:GLN:HG2	1.96	0.65
50:2s:28:LYS:HB3	50:2s:29:ARG:HA	1.78	0.65
1:1A:7:G:H2'	1:1A:8:A:O4'	1.96	0.65
1:1A:2142:C:N3	1:1A:2149:G:O6	2.30	0.65
5:1F:31:HIS:NE2	5:1F:35:GLU:OE2	2.29	0.65
23:11:23:LYS:HB3	23:11:29:GLY:HA3	1.78	0.65
47:1p:19:ILE:HG22	47:1p:36:ILE:HG13	1.79	0.65
50:1s:32:LYS:HA	50:1s:50:ALA:HB3	1.77	0.65
1:2A:1336:A:H2'	1:2A:1337:G:C8	2.32	0.65
37:2f:30:LEU:HD23	37:2f:75:LEU:HD11	1.79	0.65
28:16:13:CYS:SG	28:16:47:THR:HG21	2.37	0.65
32:1a:1025:U:C2	32:1a:1036:G:O6	2.50	0.65
35:1d:60:GLU:HG3	35:1d:202:LEU:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:621:A:OP2	11:2P:108:LYS:NZ	2.26	0.65
1:2A:877:U:O2'	1:2A:900:A:N6	2.30	0.65
1:2A:2470:G:OP1	12:2Q:56:ARG:NH2	2.29	0.65
3:2D:66:ASP:OD2	3:2D:103:ARG:NH1	2.28	0.65
20:2Y:15:VAL:HG21	20:2Y:42:VAL:HG11	1.77	0.65
32:2a:426:G:OP1	35:2d:38:TYR:OH	2.11	0.65
5:1F:116:ASP:OD2	11:1P:1:MET:N	2.22	0.64
12:1Q:16:ARG:HG2	12:1Q:18:LYS:HE3	1.79	0.64
54:2w:14:A:H61	54:2w:21:A:H2	1.43	0.64
1:1A:1399:C:OP1	19:1X:25:LYS:NZ	2.30	0.64
13:1R:67:LEU:HD13	13:1R:76:VAL:HG21	1.80	0.64
1:2A:1786:A:H1'	1:2A:1938:A:N6	2.13	0.64
1:2A:1973:G:OP1	61:2A:3941:HOH:O	2.13	0.64
8:2I:130:TYR:HB3	8:2I:138:ILE:HB	1.80	0.64
20:2Y:87:LYS:HB3	20:2Y:95:LYS:HD2	1.78	0.64
32:2a:563:A:OP1	61:2a:1916:HOH:O	2.14	0.64
56:2y:66:U:H2'	56:2y:67:C:O4'	1.97	0.64
1:1A:184:C:H2'	1:1A:185:U:C6	2.32	0.64
19:1X:35:THR:HG22	19:1X:38:GLU:H	1.62	0.64
22:10:11:ARG:O	22:10:14:ARG:NH2	2.21	0.64
43:1l:60:LEU:HD11	43:1l:66:VAL:HG22	1.80	0.64
34:2c:134:ILE:HD11	34:2c:153:VAL:HG23	1.77	0.64
18:1W:31:GLU:OE1	61:1W:301:HOH:O	2.15	0.64
1:2A:1647:G:OP1	61:2A:3906:HOH:O	2.14	0.64
1:2A:1688:U:O2	1:2A:1700:A:H5'	1.98	0.64
21:2Z:145:GLU:H	21:2Z:148:ASP:HB2	1.61	0.64
33:2b:16:HIS:HB2	33:2b:204:ASN:HD22	1.62	0.64
51:2t:43:LEU:HD13	51:2t:51:GLU:HB3	1.79	0.64
1:1A:1359:A:H2'	1:1A:1360:A:H5'	1.79	0.64
6:2G:125:PHE:HB3	6:2G:166:ASP:CG	2.22	0.64
32:2a:1080:A:H5'	36:2e:14:ARG:HH21	1.63	0.64
1:1A:1178:C:H2'	1:1A:1179:C:C6	2.33	0.64
1:1A:2206:G:H3'	1:1A:2207:G:C8	2.33	0.64
12:1Q:60:ARG:NH2	54:1w:54:5MU:OP2	2.30	0.64
1:2A:752:A:H3'	29:27:1:MET:HE1	1.79	0.64
8:2I:63:ALA:O	8:2I:67:ARG:N	2.27	0.64
32:2a:533:A:OP1	61:2a:1917:HOH:O	2.15	0.64
32:2a:1193:G:O2'	36:2e:25:ARG:NH2	2.31	0.64
33:1b:60:ASP:OD2	33:1b:64:ARG:NH2	2.25	0.64
44:1m:3:ARG:NH2	44:1m:9:ILE:O	2.30	0.64
1:2A:2747:G:H1	1:2A:2754:U:H2'	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:2H:24:VAL:HG13	7:2H:37:VAL:HG21	1.79	0.64
15:2T:60:THR:HG22	15:2T:77:PRO:HA	1.79	0.64
21:2Z:79:ARG:HD3	21:2Z:80:ARG:HH12	1.63	0.64
32:2a:428:G:OP2	35:2d:10:ARG:NH1	2.30	0.64
32:2a:673:G:H2'	32:2a:674:G:C8	2.33	0.64
32:2a:977:A:O2'	32:2a:979:C:OP2	2.15	0.64
54:2w:51:U:H2'	54:2w:52:G:C8	2.33	0.64
1:1A:330:A:N7	1:1A:1210:A:O2'	2.25	0.64
18:1W:18:ARG:HG3	18:1W:76:VAL:HB	1.80	0.64
19:1X:1:MET:HE1	24:12:26:ARG:HH21	1.63	0.64
19:1X:26:TYR:HB3	19:1X:92:LEU:HD12	1.80	0.64
32:1a:997:U:H3	32:1a:1044:A:H61	1.46	0.64
7:2H:8:PRO:HB3	7:2H:51:ARG:HG2	1.79	0.64
21:2Z:129:SER:OG	21:2Z:131:ARG:NH1	2.31	0.64
35:2d:98:GLU:OE1	35:2d:103:ASN:ND2	2.30	0.64
44:2m:82:MET:O	44:2m:93:ARG:NH2	2.30	0.64
1:1A:1069:A:H2'	1:1A:1073:A:N7	2.13	0.64
1:2A:800:A:H8	1:2A:800:A:OP1	1.80	0.64
1:2A:2121:G:H1	1:2A:2177:C:H42	1.45	0.64
1:2A:2788:C:OP1	4:2E:61:ARG:NH2	2.31	0.64
11:2P:126:VAL:HG12	11:2P:148:LEU:HD22	1.80	0.64
43:2l:57:LYS:HG3	43:2l:67:THR:HG22	1.80	0.64
1:1A:582:G:OP2	61:1A:4260:HOH:O	2.15	0.64
43:1l:60:LEU:HD21	43:1l:85:ILE:HD11	1.80	0.64
47:1p:67:THR:H	47:1p:70:ALA:HB3	1.61	0.64
1:2A:1147:C:H2'	1:2A:1148:A:H8	1.63	0.64
1:2A:2022:U:O2'	1:2A:2617:C:H5'	1.98	0.64
21:2Z:153:SER:HB3	21:2Z:167:PRO:HB3	1.80	0.64
32:2a:1026:G:H5'	32:2a:1027:C:O5'	1.97	0.64
1:1A:802:A:OP1	61:1A:4259:HOH:O	2.15	0.63
1:2A:2160:G:H2'	1:2A:2161:C:H5"	1.78	0.63
1:2A:2683:C:OP1	15:2T:53:ARG:NH2	2.29	0.63
32:2a:581:G:OP2	61:2a:1918:HOH:O	2.15	0.63
50:2s:4:SER:HB3	50:2s:7:LYS:HG3	1.80	0.63
1:1A:2629:A:O2'	1:1A:2630:G:OP2	2.17	0.63
6:1G:142:PRO:HB2	26:14:31:ILE:HG21	1.80	0.63
8:1I:3:VAL:HG12	8:1I:38:LEU:HA	1.80	0.63
32:1a:1009:G:O6	32:1a:1020:U:O2	2.16	0.63
34:2c:125:GLU:HB2	34:2c:190:ARG:HH21	1.63	0.63
1:1A:483:A:O2'	20:1Y:49:VAL:O	2.16	0.63
6:1G:114:ILE:HA	6:1G:140:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:93:G:OP1	21:2Z:79:ARG:NH2	2.30	0.63
7:2H:125:VAL:HG13	7:2H:131:VAL:HG22	1.80	0.63
14:2S:36:TYR:CD1	14:2S:52:SER:HB2	2.34	0.63
32:2a:814:A:H2'	32:2a:816:A:H5"	1.79	0.63
32:2a:1166:G:N2	32:2a:1170:A:OP2	2.30	0.63
1:1A:588:U:H2'	1:1A:589:C:C6	2.33	0.63
1:2A:2327:A:H2'	1:2A:2328:A:C8	2.33	0.63
32:2a:438:G:N1	32:2a:495:A:OP2	2.28	0.63
32:2a:1161:C:H2'	32:2a:1162:C:C6	2.34	0.63
44:2m:3:ARG:NH1	44:2m:8:GLU:OE2	2.31	0.63
45:2n:33:VAL:HA	45:2n:40:CYS:HA	1.80	0.63
47:2p:15:PRO:O	47:2p:16:HIS:ND1	2.31	0.63
5:1F:140:LEU:HD11	5:1F:170:LEU:HD21	1.80	0.63
32:1a:1334:G:OP2	61:1a:1919:HOH:O	2.15	0.63
36:1e:78:HIS:CD2	39:1h:104:ARG:HD2	2.33	0.63
50:1s:80:TYR:CZ	50:1s:82:GLY:HA2	2.34	0.63
1:2A:340:A:H2'	1:2A:341:G:O4'	1.99	0.63
32:2a:1374:A:OP1	38:2g:36:LYS:NZ	2.32	0.63
1:1A:1786:A:H1'	1:1A:1938:A:N6	2.13	0.63
1:1A:2023:G:H5'	1:1A:2617:C:H4'	1.81	0.63
2:1B:33:G:H5'	6:1G:2:PRO:HD3	1.80	0.63
26:14:61:ARG:HE	50:1s:42:PRO:HD3	1.64	0.63
32:1a:539:A:OP2	43:1l:115:LYS:NZ	2.30	0.63
32:1a:1030(A):G:H1'	32:1a:1031:G:H22	1.61	0.63
35:1d:111:ALA:HB2	35:1d:120:LEU:HD12	1.80	0.63
1:2A:90:U:H1'	1:2A:92:A:C8	2.34	0.63
1:2A:2125:G:H1'	1:2A:2173:A:H61	1.64	0.63
32:1a:343:U:O2'	32:1a:346:G:O6	2.12	0.63
32:1a:472:A:H2'	32:1a:473:G:O4'	1.99	0.63
1:2A:1324:G:N7	61:2A:4053:HOH:O	2.31	0.63
1:2A:2660:A:N7	7:2H:175:LYS:NZ	2.47	0.63
42:2k:18:ARG:NH2	42:2k:35:PRO:O	2.32	0.63
45:1n:21:TYR:OH	45:1n:23:ARG:NH2	2.32	0.63
33:2b:91:PRO:HG3	33:2b:154:LEU:HB2	1.79	0.63
34:2c:152:ILE:HG12	34:2c:199:LYS:HB2	1.81	0.63
2:1B:84:C:OP1	25:13:15:TYR:OH	2.14	0.63
24:12:22:GLU:OE2	24:12:68:ARG:NH2	2.32	0.63
36:1e:41:VAL:HG23	36:1e:67:VAL:HG13	1.81	0.63
38:1g:113:GLU:HG2	38:1g:119:ARG:HG2	1.81	0.63
7:2H:84:SER:HB2	7:2H:132:ARG:HD3	1.80	0.63
32:2a:427:U:OP2	35:2d:36:ARG:NH1	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:976:G:H5'	32:2a:1358:U:O2'	1.98	0.63
32:2a:1366:C:OP1	40:2i:117:HIS:NE2	2.32	0.63
39:2h:19:VAL:HG23	39:2h:21:LYS:HG3	1.80	0.63
4:1E:1:MET:HE1	4:1E:199:ARG:HB3	1.81	0.62
32:1a:1145:C:H4'	32:1a:1146:A:H5'	1.81	0.62
33:1b:90:MET:HE3	33:1b:226:ARG:HH12	1.63	0.62
38:1g:50:ILE:HD13	38:1g:125:MET:HG2	1.79	0.62
1:2A:2131:G:H22	1:2A:2158:A:N6	1.97	0.62
1:2A:2218:U:H1'	23:21:52:ARG:HH12	1.64	0.62
6:2G:166:ASP:O	6:2G:170:ARG:N	2.21	0.62
32:2a:148:G:H2'	32:2a:149:A:C8	2.33	0.62
1:1A:2140:C:H2'	1:1A:2141:G:C8	2.34	0.62
1:1A:2344:U:OP1	28:16:37:ARG:NH1	2.32	0.62
10:1O:36:GLY:O	61:1O:301:HOH:O	2.16	0.62
37:1f:89:MET:HE1	49:1r:72:ARG:HB3	1.81	0.62
40:1i:46:ALA:HB2	40:1i:74:ILE:HG23	1.79	0.62
1:2A:1800:C:OP2	3:2D:183:ARG:NH2	2.31	0.62
2:2B:15:A:OP2	2:2B:69:G:N2	2.32	0.62
13:2R:28:LEU:HD23	13:2R:48:VAL:HG21	1.80	0.62
1:2A:700:G:O2'	1:2A:1632:A:N3	2.28	0.62
1:2A:2166:G:O6	1:2A:2171:A:N6	2.32	0.62
3:2D:108:PRO:HB3	3:2D:143:HIS:CE1	2.34	0.62
33:2b:198:ASP:N	33:2b:198:ASP:OD1	2.30	0.62
40:2i:7:THR:O	40:2i:83:ARG:NH1	2.32	0.62
1:1A:110:G:N7	61:1A:4374:HOH:O	2.30	0.62
3:1D:183:ARG:HG3	3:1D:270:ILE:HD13	1.81	0.62
1:2A:2046:G:H5'	27:25:19:ARG:HG3	1.81	0.62
8:2I:117:GLU:HG3	8:2I:118:LYS:H	1.65	0.62
32:2a:1013:G:O2'	32:2a:1015:A:N7	2.27	0.62
33:2b:58:ILE:HD11	33:2b:185:ILE:HD13	1.79	0.62
44:2m:80:ARG:HH22	50:2s:69:HIS:HE1	1.47	0.62
1:1A:1498:C:OP1	61:1A:4262:HOH:O	2.16	0.62
32:1a:189(K):U:H2'	32:1a:189(L):G:C8	2.35	0.62
1:2A:271(R):G:OP1	23:21:76:ARG:NE	2.30	0.62
2:2B:86:G:H1	2:2B:91:C:H42	1.47	0.62
14:2S:34:HIS:O	14:2S:97:ARG:NH2	2.32	0.62
32:2a:1274:G:N2	32:2a:1275:A:N7	2.38	0.62
45:2n:24:CYS:HB3	45:2n:28:GLY:H	1.62	0.62
1:1A:1057:A:N6	1:1A:1081:U:H3	1.98	0.62
32:1a:628:G:O6	61:1a:1918:HOH:O	2.15	0.62
1:2A:2467:C:H4'	12:2Q:123:HIS:CD2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:109:GLY:HA3	35:2d:165:MET:HG3	1.79	0.62
44:2m:90:LEU:HA	44:2m:93:ARG:HD2	1.81	0.62
1:1A:2334:G:H5'	14:1S:9:ARG:HG2	1.82	0.62
7:1H:86:GLU:OE2	7:1H:132:ARG:NH2	2.33	0.62
35:1d:7:PRO:HB2	35:1d:10:ARG:HD2	1.80	0.62
46:1o:54:ARG:HG2	46:1o:58:MET:HE2	1.81	0.62
1:2A:2363:C:O2	22:20:39:ARG:NH2	2.32	0.62
5:2F:157:VAL:HB	5:2F:194:MET:HG2	1.82	0.62
41:2j:6:ILE:HG12	41:2j:98:ILE:HG22	1.81	0.62
1:1A:1187:G:H5"	17:1V:81:TYR:CE1	2.34	0.62
1:1A:2121:G:H1	1:1A:2177:C:N4	1.97	0.62
1:1A:2786:U:O2'	4:1E:62:PRO:O	2.14	0.62
17:1V:80:GLN:HA	17:1V:82:ARG:NH1	2.14	0.62
1:2A:919:G:N2	1:2A:2269:A:OP2	2.32	0.62
1:2A:2128:C:H2'	1:2A:2129:C:O4'	1.99	0.62
32:2a:664:G:H22	32:2a:741:G:H1	1.48	0.62
32:2a:1189:C:OP1	41:2j:51:ARG:NH2	2.33	0.62
10:1O:21:CYS:HB2	10:1O:39:ILE:HD12	1.81	0.62
26:14:28:LYS:HB2	26:14:28:LYS:NZ	2.14	0.62
43:1l:52:LEU:O	43:1l:54:LYS:NZ	2.31	0.62
1:2A:2578:G:OP1	61:2A:3952:HOH:O	2.16	0.62
32:2a:501:C:H2'	32:2a:502:G:C8	2.35	0.62
32:2a:565:U:OP2	32:2a:566:G:O2'	2.17	0.62
1:1A:882:G:H1	1:1A:894:C:H42	1.46	0.62
32:1a:517:G:O6	61:1a:1917:HOH:O	2.15	0.62
39:1h:43:GLY:O	39:1h:64:LYS:NZ	2.29	0.62
1:2A:852:G:H2'	1:2A:853:G:H8	1.64	0.62
1:2A:1794:U:H2'	1:2A:1795:C:C6	2.35	0.62
32:2a:24:U:OP1	43:2l:23:LYS:NZ	2.24	0.62
32:2a:1105:A:H2'	32:2a:1106:G:H8	1.63	0.62
40:2i:33:PHE:HE2	40:2i:43:ALA:HB1	1.64	0.62
56:2y:18:G:N2	56:2y:55:PSU:HN3	1.93	0.62
23:11:18:ILE:HG12	23:11:37:ILE:HG12	1.82	0.61
48:1q:67:LYS:O	48:1q:68:ARG:HB2	1.98	0.61
1:2A:247:G:H4'	1:2A:386:G:C5	2.35	0.61
1:2A:307:G:N1	1:2A:310:A:OP2	2.32	0.61
1:2A:910:A:N1	1:2A:2277:G:H1'	2.14	0.61
1:2A:2646:C:OP2	1:2A:2732:G:O2'	2.17	0.61
32:2a:1133:G:H1	32:2a:1141:C:N4	1.98	0.61
1:1A:952:G:OP1	12:1Q:16:ARG:NH2	2.32	0.61
1:1A:1168:G:H1	1:1A:1181:C:H42	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:13:8:LEU:HG	25:13:31:LEU:HD23	1.80	0.61
32:1a:191:G:N2	51:1t:102:GLY:O	2.32	0.61
32:1a:890:G:O2'	32:1a:906:G:O6	2.14	0.61
1:2A:531:C:OP1	1:2A:561:G:N1	2.31	0.61
1:2A:1300:U:H4'	1:2A:1301:A:H5"	1.82	0.61
19:2X:50:LYS:HB3	19:2X:84:ALA:HB2	1.83	0.61
32:2a:56:U:H2'	32:2a:57:G:C8	2.35	0.61
32:2a:663:A:H61	32:2a:742:G:H1	1.46	0.61
32:2a:789:U:O2'	32:2a:791:G:N7	2.27	0.61
32:2a:1346:A:OP1	40:2i:120:ARG:NH1	2.31	0.61
5:1F:185:ASP:HA	5:1F:188:ARG:HD3	1.81	0.61
8:1I:62:LYS:HE2	8:1I:133:HIS:HE1	1.65	0.61
28:16:6:ARG:NE	28:16:24:GLU:OE2	2.26	0.61
32:1a:1095:U:P	32:1a:1108:G:H1	2.23	0.61
33:1b:212:GLN:NE2	33:1b:234:PRO:O	2.33	0.61
36:1e:110:LEU:HD13	36:1e:118:ILE:HG21	1.82	0.61
1:2A:1017:G:O6	61:2A:3946:HOH:O	2.14	0.61
1:2A:1147:C:H2'	1:2A:1148:A:C8	2.35	0.61
3:2D:125:ILE:HB	37:2f:81:ILE:HD11	1.80	0.61
48:2q:45:HIS:HB2	48:2q:65:ILE:HD13	1.82	0.61
21:1Z:3:TYR:CD2	21:1Z:51:ALA:HB2	2.35	0.61
32:1a:1021:G:O2'	32:1a:1022:G:O5'	2.13	0.61
32:1a:1378:C:O2	38:1g:76:ARG:NH2	2.34	0.61
32:1a:1485:U:O4	61:1a:1916:HOH:O	2.14	0.61
1:2A:2857:G:N2	1:2A:2860:A:OP2	2.33	0.61
21:2Z:55:HIS:CE1	21:2Z:135:GLU:HB2	2.35	0.61
23:21:50:ARG:NH1	23:21:57:GLU:OE1	2.31	0.61
16:1U:49:HIS:HA	16:1U:52:ARG:HB2	1.80	0.61
25:13:18:ASP:OD1	25:13:18:ASP:N	2.33	0.61
1:2A:1037:G:H1	1:2A:1118:C:H42	1.46	0.61
1:2A:1952:A:OP1	10:2O:44:LYS:NZ	2.27	0.61
1:2A:2820:A:OP2	13:2R:2:ARG:NH2	2.33	0.61
3:2D:108:PRO:HG2	3:2D:111:LEU:HB2	1.81	0.61
25:23:7:LYS:NZ	25:23:34:GLU:OE1	2.31	0.61
1:1A:81:G:O6	61:1A:4256:HOH:O	2.15	0.61
1:1A:1762:A:H2'	61:1A:5855:HOH:O	2.01	0.61
1:1A:1803:A:O2'	3:1D:259:THR:HG21	2.01	0.61
32:1a:171:A:H2'	32:1a:172:A:C8	2.36	0.61
32:1a:625:G:OP2	61:1a:1920:HOH:O	2.16	0.61
32:1a:1239:A:H62	32:1a:1299:A:N6	1.98	0.61
1:2A:587:C:OP2	11:2P:21:ARG:NH2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:21:53:VAL:HG22	23:21:74:VAL:HG13	1.83	0.61
32:2a:1245:A:H2'	32:2a:1246:C:O4'	2.00	0.61
1:1A:987:G:N7	61:1A:4386:HOH:O	2.31	0.61
1:1A:1076:C:O2'	1:1A:1077:A:N7	2.32	0.61
14:1S:23:ARG:HB2	14:1S:86:ALA:HB2	1.82	0.61
27:15:40:LYS:NZ	27:15:44:THR:O	2.33	0.61
32:1a:976:G:OP2	32:1a:1358:U:O2'	2.19	0.61
1:2A:1781:C:OP2	61:2A:3953:HOH:O	2.16	0.61
1:2A:2206:G:H5"	1:2A:2207:G:N7	2.16	0.61
1:2A:2683:C:O2	10:2O:70:LYS:NZ	2.31	0.61
9:2N:138:LEU:HB3	9:2N:140:VAL:HG13	1.81	0.61
16:2U:76:TYR:OH	16:2U:92:ARG:NE	2.31	0.61
33:2b:84:GLU:HA	33:2b:87:ARG:HG2	1.82	0.61
1:1A:2308:G:O6	1:1A:2311:A:N6	2.17	0.61
4:1E:34:VAL:HG22	4:1E:48:GLN:HE21	1.65	0.61
32:1a:877:C:H5"	39:1h:88:LYS:HD3	1.82	0.61
14:2S:10:ARG:NE	14:2S:91:PRO:O	2.32	0.61
32:2a:1271:G:N2	32:2a:1272:G:N7	2.49	0.61
49:2r:73:ALA:HB1	49:2r:78:LEU:HB2	1.83	0.61
11:1P:89:ALA:HA	11:1P:121:LYS:HD3	1.82	0.61
47:1p:53:VAL:HG13	47:1p:79:VAL:HG13	1.83	0.61
21:2Z:137:ILE:HA	21:2Z:156:LYS:HE2	1.82	0.61
26:24:53:GLU:HG2	26:24:55:ARG:H	1.64	0.61
32:2a:1004:A:N6	32:2a:1037:C:H1'	2.14	0.61
39:1h:86:ILE:HG21	39:1h:133:LEU:HD13	1.82	0.61
1:2A:662:G:OP1	61:2A:3954:HOH:O	2.16	0.61
14:2S:105:ALA:HB1	14:2S:110:LEU:HD23	1.83	0.61
32:2a:707:C:H2'	32:2a:708:C:C6	2.36	0.61
1:1A:1688:U:O2	1:1A:1700:A:H5'	2.01	0.60
18:1W:12:ILE:HD13	18:1W:17:VAL:HG13	1.83	0.60
32:1a:564:C:O2'	39:1h:91:ARG:NH2	2.22	0.60
32:1a:946:A:H2'	32:1a:947:G:C8	2.35	0.60
1:2A:1514:U:H2'	1:2A:1515:G:H8	1.66	0.60
1:2A:2129:C:N4	1:2A:2159:G:H1	1.99	0.60
2:2B:72:G:O2'	2:2B:105:A:N6	2.34	0.60
32:2a:16:A:N3	32:2a:1080:A:O2'	2.31	0.60
32:2a:748:C:H4'	32:2a:749:C:O5'	2.01	0.60
32:2a:1239:A:H62	32:2a:1299:A:H61	1.48	0.60
11:1P:91:PHE:O	11:1P:121:LYS:NZ	2.27	0.60
32:1a:1337:G:N7	61:1a:1958:HOH:O	2.32	0.60
34:1c:95:THR:C	34:1c:97:LYS:H	2.09	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1388:G:H2'	1:2A:1389:G:H8	1.66	0.60
1:2A:1647:G:H3'	1:2A:1647:G:OP2	2.00	0.60
1:2A:1657:C:H2'	1:2A:1658:C:C6	2.35	0.60
6:2G:115:ARG:HB2	6:2G:115:ARG:HH11	1.65	0.60
11:2P:38:GLN:O	11:2P:39:LYS:HB3	2.01	0.60
32:2a:1023:G:H3'	32:2a:1024:G:H8	1.66	0.60
42:2k:17:GLY:HA3	42:2k:77:MET:HE1	1.83	0.60
50:2s:28:LYS:HB3	50:2s:29:ARG:CA	2.32	0.60
32:1a:553:A:H5"	43:1l:24:VAL:HG21	1.83	0.60
32:1a:739:C:O2'	46:1o:42:HIS:ND1	2.33	0.60
32:1a:972:C:O2'	41:1j:55:LYS:O	2.19	0.60
1:2A:2112:G:C2	1:2A:2113:U:H1'	2.36	0.60
21:2Z:156:LYS:HE3	21:2Z:158:PRO:HD3	1.82	0.60
1:1A:1506:C:H2'	1:1A:1507:A:H8	1.66	0.60
1:1A:2049:G:N7	61:1A:4392:HOH:O	2.32	0.60
1:1A:2171:A:O2'	1:1A:2172:U:H5"	2.02	0.60
1:1A:2591:C:H2'	1:1A:2592:G:C8	2.35	0.60
4:1E:36:ARG:NH1	4:1E:85:ASN:OD1	2.33	0.60
25:13:6:VAL:HG22	25:13:56:VAL:HG13	1.82	0.60
25:13:7:LYS:HB2	25:13:34:GLU:HG3	1.82	0.60
1:2A:2136:C:N4	1:2A:2155:G:N1	2.50	0.60
1:2A:2640:G:O6	61:2A:3948:HOH:O	2.14	0.60
31:29:2:LYS:NZ	31:29:31:LYS:O	2.32	0.60
35:2d:15:GLU:OE2	35:2d:66:ARG:NH1	2.34	0.60
1:1A:1769:G:O2'	1:1A:1958:C:OP1	2.16	0.60
3:1D:2:ALA:N	3:1D:200:ASP:OD2	2.35	0.60
6:1G:114:ILE:HG12	6:1G:140:ILE:HG12	1.82	0.60
32:1a:721:G:H4'	32:1a:722:A:O4'	2.01	0.60
45:1n:9:LYS:HG2	45:1n:12:ARG:HH21	1.65	0.60
1:2A:2156:G:H2'	1:2A:2157:G:C4	2.37	0.60
8:2I:92:VAL:HG13	8:2I:120:ILE:HB	1.83	0.60
42:2k:22:HIS:HB3	42:2k:29:ILE:HB	1.83	0.60
10:1O:7:TYR:HE2	10:1O:20:MET:HE3	1.65	0.60
32:1a:975:A:H5'	32:1a:975:A:H8	1.66	0.60
34:1c:71:ALA:HB2	34:1c:115:LEU:HD21	1.84	0.60
36:1e:137:GLU:OE2	36:1e:141:GLN:NE2	2.35	0.60
1:2A:1889:A:H2'	1:2A:1890:A:C8	2.36	0.60
1:2A:2049:G:N7	61:2A:4058:HOH:O	2.32	0.60
1:2A:2615:U:OP2	61:2A:3955:HOH:O	2.16	0.60
1:1A:2134:A:O2'	1:1A:2135:A:OP1	2.19	0.60
32:1a:131:C:O2	32:1a:231:G:N2	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1592:C:H2'	1:2A:1593:G:H8	1.66	0.60
7:2H:89:ILE:HD11	7:2H:131:VAL:HG23	1.83	0.60
4:1E:116:VAL:HG13	4:1E:122:PHE:HB2	1.83	0.60
32:1a:44:G:N7	61:1a:1957:HOH:O	2.31	0.60
32:1a:1356:G:H2'	32:1a:1357:A:C8	2.37	0.60
1:2A:2074:U:H2'	1:2A:2075:U:C6	2.36	0.60
32:2a:1002:G:C2	32:2a:1003:G:H1'	2.37	0.60
48:2q:45:HIS:HB3	48:2q:72:ARG:HG2	1.83	0.60
1:1A:299:A:OP2	61:1A:4266:HOH:O	2.17	0.60
1:1A:1025:G:C4	1:1A:1135:C:H1'	2.37	0.60
1:1A:2375:G:N7	61:1A:4372:HOH:O	2.30	0.60
25:13:5:LYS:NZ	25:13:34:GLU:OE2	2.35	0.60
1:2A:2269:A:OP1	61:2A:3950:HOH:O	2.16	0.60
10:2O:97:ARG:NH1	32:2a:339:C:OP2	2.34	0.60
11:2P:86:LYS:NZ	11:2P:87:ASP:OD1	2.35	0.60
26:24:14:ILE:N	26:24:22:ILE:O	2.33	0.60
32:2a:1073:U:O2'	33:2b:104:ASN:OD1	2.19	0.60
39:2h:96:GLY:N	39:2h:99:GLU:OE2	2.27	0.60
1:1A:278:A:H2'	1:1A:279:C:C6	2.36	0.60
8:1I:75:LEU:HD22	8:1I:105:HIS:HD2	1.66	0.60
13:1R:97:VAL:HG22	13:1R:114:VAL:HG13	1.84	0.60
35:1d:144:ASP:N	35:1d:144:ASP:OD1	2.34	0.60
54:1w:43:C:H2'	54:1w:44:G:C8	2.36	0.60
1:2A:1782:C:H1'	1:2A:2609:U:H5"	1.84	0.60
1:2A:2577:A:H5'	27:25:3:LYS:HE3	1.84	0.60
32:2a:677:U:H3	32:2a:713:G:H22	1.47	0.60
32:2a:1108:G:O6	61:2a:1919:HOH:O	2.15	0.60
35:2d:10:ARG:HG3	35:2d:11:LEU:HD12	1.84	0.60
53:2v:23:A:H4'	53:2v:24:A:H5'	1.84	0.60
1:1A:992:C:OP1	16:1U:47:TYR:OH	2.19	0.59
5:1F:132:VAL:HA	5:1F:138:GLU:HB3	1.84	0.59
12:1Q:111:GLU:OE2	12:1Q:133:ARG:NH2	2.35	0.59
15:1T:111:ARG:NH2	32:1a:1464:G:OP2	2.35	0.59
33:1b:80:ILE:HD13	33:1b:211:ILE:HG22	1.84	0.59
51:1t:83:ARG:HA	51:1t:86:ARG:HH11	1.67	0.59
1:2A:829:A:N7	1:2A:2247:A:O2'	2.35	0.59
1:2A:1657:C:H2'	1:2A:1658:C:H6	1.67	0.59
21:2Z:102:LEU:HD11	21:2Z:124:ILE:HD12	1.82	0.59
51:2t:29:LYS:HB2	51:2t:71:THR:HG21	1.84	0.59
1:1A:880:G:H2'	1:1A:881:G:H8	1.67	0.59
1:1A:2156:G:H2'	1:1A:2157:G:C2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2646:C:OP2	1:1A:2732:G:O2'	2.13	0.59
8:1I:92:VAL:HG13	8:1I:120:ILE:HB	1.83	0.59
10:1O:97:ARG:NH1	32:1a:339:C:OP2	2.28	0.59
21:1Z:154:ASP:OD1	21:1Z:154:ASP:N	2.30	0.59
38:1g:74:GLU:HG2	38:1g:91:VAL:HG22	1.84	0.59
40:1i:50:LEU:HA	40:1i:53:VAL:HG23	1.83	0.59
55:1x:8:4SU:O2	55:1x:21:A:H2	1.85	0.59
4:2E:14:ILE:HG13	4:2E:21:VAL:HG13	1.82	0.59
21:2Z:98:MET:O	21:2Z:126:VAL:N	2.34	0.59
32:2a:297:G:N2	32:2a:300:A:OP2	2.35	0.59
32:2a:1280:A:H5'	41:2j:40:LEU:HD22	1.84	0.59
32:2a:1435:G:H2'	32:2a:1436:U:C6	2.37	0.59
41:2j:16:LEU:O	41:2j:20:ALA:N	2.27	0.59
41:2j:35:SER:HB3	41:2j:73:ASP:HB2	1.84	0.59
41:2j:42:THR:HG22	41:2j:68:HIS:HA	1.82	0.59
1:1A:395:U:O2'	1:1A:396:G:N7	2.35	0.59
1:1A:621:A:OP2	11:1P:108:LYS:NZ	2.36	0.59
1:1A:2123:G:H2'	1:1A:2124:G:H8	1.66	0.59
21:1Z:41:LEU:HD11	21:1Z:83:PRO:HG2	1.82	0.59
32:1a:673:G:H2'	32:1a:674:G:C8	2.37	0.59
35:1d:134:ASP:N	35:1d:134:ASP:OD1	2.35	0.59
40:1i:26:VAL:HG13	40:1i:61:ALA:HB3	1.84	0.59
1:2A:1364:G:N2	1:2A:1367:A:OP2	2.29	0.59
1:2A:1508:A:H4'	1:2A:1509(A):A:C5	2.38	0.59
32:2a:1150:U:H4'	41:2j:41:PRO:HG3	1.84	0.59
32:2a:1197:G:OP2	61:2a:1920:HOH:O	2.17	0.59
1:1A:528:A:OP2	9:1N:114:ARG:NH1	2.36	0.59
1:1A:2870:C:H2'	1:1A:2871:C:O4'	2.02	0.59
6:1G:74:LYS:O	6:1G:84:LYS:NZ	2.28	0.59
9:1N:43:THR:N	9:1N:48:MET:SD	2.74	0.59
1:2A:1798:U:H5'	3:2D:259:THR:CG2	2.33	0.59
16:2U:27:LEU:HB3	16:2U:31:SER:HB3	1.84	0.59
32:2a:64:G:H4'	32:2a:65:U:H3'	1.84	0.59
32:2a:259:G:OP2	51:2t:83:ARG:NH1	2.34	0.59
46:2o:39:LEU:HB3	46:2o:56:LEU:HD12	1.83	0.59
47:2p:21:VAL:HG22	47:2p:33:ILE:HB	1.84	0.59
48:2q:68:ARG:H	48:2q:70:ARG:HH12	1.50	0.59
1:1A:1635:G:OP1	61:1A:4261:HOH:O	2.15	0.59
10:1O:115:VAL:HG13	10:1O:121:VAL:HG21	1.84	0.59
11:1P:42:SER:O	61:1P:301:HOH:O	2.16	0.59
32:1a:1381:U:H1'	38:1g:79:ARG:HG2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:1p:47:ASP:OD1	47:1p:47:ASP:N	2.34	0.59
1:2A:1015:G:H2'	1:2A:1016:G:H8	1.67	0.59
2:2B:66:A:N6	2:2B:108:U:H3'	2.17	0.59
7:2H:159:GLU:HG3	7:2H:169:VAL:HG11	1.85	0.59
17:2V:43:GLU:OE1	17:2V:43:GLU:N	2.34	0.59
32:2a:973:G:H3'	32:2a:974:A:H5"	1.84	0.59
1:1A:2429:G:OP1	61:1A:4211:HOH:O	2.16	0.59
20:1Y:6:HIS:HE1	20:1Y:72:VAL:O	1.85	0.59
32:1a:735:C:H2'	32:1a:736:C:H6	1.68	0.59
1:2A:826:U:H4'	11:2P:55:ARG:HB3	1.85	0.59
1:2A:2061:G:H5"	1:2A:2503:2MA:C2	2.33	0.59
19:2X:46:ALA:HB1	24:22:33:MET:HE1	1.83	0.59
32:2a:743:U:H2'	32:2a:744:C:C6	2.37	0.59
33:2b:124:SER:HB3	33:2b:125:PRO:HD3	1.84	0.59
1:1A:392:C:OP1	61:1A:4227:HOH:O	2.17	0.59
1:1A:1680:U:O2'	1:1A:1763:G:N7	2.27	0.59
11:1P:100:LEU:HD12	11:1P:112:LEU:HD11	1.83	0.59
17:1V:76:LYS:HB2	17:1V:81:TYR:HB3	1.83	0.59
32:1a:382:A:H2'	32:1a:383:A:H8	1.67	0.59
1:2A:1939:5MU:OP1	1:2A:2604:U:O2'	2.20	0.59
1:2A:2127:G:N2	1:2A:2161:C:N3	2.50	0.59
1:2A:2291:U:H2'	1:2A:2292:C:C6	2.38	0.59
32:2a:54:C:N4	32:2a:353:A:OP2	2.32	0.59
34:2c:57:ILE:HG13	34:2c:66:VAL:HG12	1.84	0.59
38:2g:78:ARG:HE	38:2g:79:ARG:HG3	1.66	0.59
44:2m:85:GLY:HA2	44:2m:93:ARG:NH2	2.16	0.59
17:1V:10:LYS:NZ	17:1V:23:GLU:OE2	2.36	0.59
21:1Z:92:SER:O	21:1Z:130:PRO:HG2	2.03	0.59
21:1Z:139:VAL:HG12	21:1Z:140:ASP:H	1.67	0.59
40:1i:32:ASP:OD1	40:1i:33:PHE:N	2.36	0.59
1:2A:1434:A:H61	1:2A:1558:A:H62	1.51	0.59
32:2a:447:G:O6	32:2a:485:G:O2'	2.16	0.59
32:2a:1000:U:H2'	32:2a:1001:A:C8	2.37	0.59
33:2b:97:TRP:HH2	33:2b:102:LEU:HD13	1.68	0.59
34:2c:52:LEU:HD12	34:2c:53:ALA:H	1.68	0.59
56:2y:26:A:H2	56:2y:44:G:H1	1.49	0.59
7:1H:84:SER:OG	7:1H:132:ARG:NH1	2.36	0.59
51:1t:15:ARG:O	51:1t:19:SER:OG	2.20	0.59
1:2A:724:U:H2'	1:2A:725:G:O4'	2.03	0.59
1:2A:1231:G:H2'	1:2A:1232:G:H8	1.67	0.59
1:2A:1816:G:O6	3:2D:35:LYS:NZ	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1919:A:O2'	32:2a:1517:G:N3	2.34	0.59
1:1A:512:G:N7	61:1A:4381:HOH:O	2.31	0.59
12:1Q:136:ALA:HA	12:1Q:139:GLU:HB2	1.84	0.59
15:1T:127:ALA:C	15:1T:129:ARG:H	2.09	0.59
32:1a:769:G:H4'	32:1a:1513:A:H4'	1.85	0.59
32:1a:1510:U:H2'	32:1a:1511:G:C8	2.38	0.59
52:1u:17:THR:O	52:1u:22:ARG:NH1	2.36	0.59
1:2A:2023:G:H5'	1:2A:2617:C:H4'	1.83	0.59
6:2G:167:GLU:H	6:2G:167:GLU:CD	2.11	0.59
30:28:26:LYS:HD3	30:28:48:PHE:CD2	2.37	0.59
32:2a:1074:G:OP1	36:2e:64:ARG:NH2	2.36	0.59
1:1A:489:G:N7	18:1W:49:LYS:NZ	2.50	0.58
1:1A:1243:G:O2'	11:1P:7:ARG:NH2	2.35	0.58
32:1a:7:G:H5'	32:1a:298:A:O4'	2.03	0.58
56:1y:38:A:H2'	56:1y:39:PSU:O4'	2.02	0.58
1:2A:1449:A:O2'	1:2A:1529:G:N2	2.35	0.58
21:2Z:171:ILE:HG13	21:2Z:172:ALA:H	1.67	0.58
32:2a:969:A:OP1	41:2j:55:LYS:NZ	2.36	0.58
32:2a:1329:A:OP2	52:2u:7:ARG:NH1	2.36	0.58
1:1A:264:C:O2'	1:1A:265:A:H2'	2.03	0.58
1:1A:1405:U:H2'	1:1A:1406:U:C6	2.37	0.58
1:1A:1448:G:H4'	1:1A:1542:A:OP1	2.03	0.58
1:1A:2404:C:O3'	11:1P:77:ARG:NH2	2.36	0.58
2:1B:14:U:OP2	2:1B:70:C:O2'	2.19	0.58
32:1a:1074:G:O2'	32:1a:1101:A:N1	2.34	0.58
1:2A:1753:G:H5"	15:2T:95:ARG:HG2	1.85	0.58
32:2a:524:G:H2'	32:2a:525:C:C6	2.38	0.58
32:2a:1020:U:H2'	32:2a:1021:G:C8	2.38	0.58
32:2a:1176:A:H2'	32:2a:1177:G:C8	2.37	0.58
41:2j:8:LEU:HB3	41:2j:70:ARG:HB2	1.85	0.58
1:2A:27:G:O2'	1:2A:28:A:OP2	2.20	0.58
1:2A:1837:C:OP1	32:2a:784:C:H4'	2.02	0.58
15:2T:33:LYS:HB3	15:2T:82:LEU:HD22	1.84	0.58
32:2a:1216:G:H5"	45:2n:5:ALA:HB2	1.84	0.58
33:2b:98:LEU:HB2	33:2b:101:MET:HG3	1.84	0.58
1:1A:796:C:H2'	1:1A:797:C:C6	2.38	0.58
1:1A:1308:A:OP2	61:1A:4264:HOH:O	2.16	0.58
5:1F:167:ALA:HB1	5:1F:173:VAL:HG11	1.85	0.58
32:1a:1414:U:H3	32:1a:1486:G:H1	1.48	0.58
33:1b:53:ARG:HA	33:1b:56:ARG:HH11	1.67	0.58
47:1p:43:LYS:HG2	47:1p:48:TRP:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:603:A:O4'	1:2A:655:A:N6	2.36	0.58
1:2A:1514:U:H2'	1:2A:1515:G:C8	2.39	0.58
1:2A:2831:G:OP1	4:2E:58:ARG:NH2	2.35	0.58
9:2N:123:TYR:HH	9:2N:130:HIS:CD2	2.21	0.58
30:28:33:ASN:HA	30:28:36:LYS:HD2	1.85	0.58
1:1A:2354:G:H21	22:10:36:ILE:HD11	1.69	0.58
3:1D:237:GLU:OE2	61:1D:401:HOH:O	2.16	0.58
32:1a:7:G:H2'	36:1e:119:LEU:HD22	1.86	0.58
51:1t:36:LEU:HD12	51:1t:62:LEU:HD12	1.84	0.58
1:2A:1714:G:H2'	1:2A:1717:G:H8	1.68	0.58
1:2A:1769:G:O2'	1:2A:1958:C:OP1	2.22	0.58
1:2A:1937:A:H1'	1:2A:1939:5MU:H72	1.86	0.58
1:2A:2262:U:OP2	22:20:16:SER:OG	2.14	0.58
1:2A:2299:G:H2'	1:2A:2300:G:H8	1.67	0.58
1:2A:2394:C:N3	56:2y:76:A:O2'	2.34	0.58
1:2A:2506:U:O2'	54:2w:76:F3N:H4'	2.02	0.58
5:2F:113:ALA:HB1	5:2F:186:ILE:HG21	1.85	0.58
6:2G:43:LEU:O	6:2G:45:GLU:N	2.33	0.58
28:26:14:THR:O	28:26:17:LYS:NZ	2.36	0.58
43:2l:32:PHE:HB3	43:2l:84:LEU:HD11	1.86	0.58
1:1A:1773:A:N1	61:1A:4389:HOH:O	2.32	0.58
1:1A:2328:A:H2'	1:1A:2329:G:C8	2.38	0.58
1:1A:2331:G:O2'	1:1A:2336:A:N1	2.32	0.58
6:1G:126:ASP:HB3	6:1G:128:ARG:H	1.69	0.58
32:1a:382:A:H2'	32:1a:383:A:C8	2.38	0.58
32:1a:1469:G:H2'	32:1a:1470:G:H8	1.67	0.58
36:1e:6:PHE:HB3	36:1e:34:VAL:HG22	1.86	0.58
1:2A:607:U:OP1	5:2F:102:PRO:HA	2.04	0.58
1:2A:789:A:N7	61:2A:4063:HOH:O	2.32	0.58
1:2A:882:G:H1	1:2A:894:C:H42	1.51	0.58
14:2S:27:SER:HA	14:2S:88:ASP:HB3	1.84	0.58
19:2X:60:ARG:HH22	29:27:47:ARG:NH1	2.02	0.58
20:2Y:97:ARG:HB2	20:2Y:106:LEU:HD12	1.85	0.58
28:26:12:GLU:OE1	28:26:19:ARG:NH1	2.34	0.58
32:2a:335:C:O2'	32:2a:1433:A:N3	2.32	0.58
1:1A:146:G:OP2	61:1A:4267:HOH:O	2.17	0.58
1:1A:651:G:OP1	30:18:19:SER:OG	2.17	0.58
1:1A:2646:C:H2'	1:1A:2647:U:O4'	2.03	0.58
7:1H:101:ARG:HH12	7:1H:122:THR:HA	1.68	0.58
14:1S:25:ARG:NH1	14:1S:42:ASP:OD2	2.37	0.58
32:1a:112:G:OP1	47:1p:27:LYS:NZ	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:613:C:H42	32:2a:627:G:H1	1.51	0.58
32:2a:1271:G:C2	32:2a:1272:G:N7	2.72	0.58
33:2b:178:ARG:NH1	33:2b:196:LEU:O	2.37	0.58
36:2e:12:LEU:HD12	36:2e:128:PRO:HB2	1.86	0.58
37:2f:94:GLN:HE22	49:2r:72:ARG:HH12	1.51	0.58
42:2k:65:ALA:O	42:2k:69:ALA:N	2.37	0.58
1:1A:2375:G:N2	1:1A:2378:A:OP2	2.33	0.58
6:1G:15:VAL:HG22	6:1G:175:LEU:HB3	1.85	0.58
32:1a:293:G:H5'	32:1a:610:G:C2	2.38	0.58
40:1i:50:LEU:HD13	40:1i:56:LEU:HA	1.86	0.58
1:2A:1346:G:OP2	61:2A:3958:HOH:O	2.17	0.58
1:2A:1379:A:H4'	1:2A:1380:G:OP2	2.03	0.58
10:2O:2:ILE:HB	10:2O:33:ALA:HB3	1.85	0.58
14:2S:67:ARG:HG2	14:2S:71:ARG:HD2	1.86	0.58
32:2a:921:U:O2'	36:2e:19:MET:O	2.21	0.58
32:2a:1000:U:H2'	32:2a:1001:A:H8	1.69	0.58
50:1s:46:GLY:HA2	50:1s:61:TYR:HE1	1.69	0.58
1:2A:1592:C:H2'	1:2A:1593:G:C8	2.38	0.58
3:2D:275:LYS:HG3	3:2D:276:LYS:HB2	1.86	0.58
13:2R:104:ARG:HD2	13:2R:109:ALA:HB3	1.84	0.58
32:2a:972:C:O2'	41:2j:55:LYS:O	2.22	0.58
32:2a:1139:G:N2	32:2a:1142:G:O6	2.29	0.58
33:2b:88:ALA:HB2	33:2b:219:VAL:HG13	1.85	0.58
40:2i:5:TYR:HE1	40:2i:16:ARG:HB3	1.69	0.58
1:1A:1174:A:H4'	1:1A:1175:U:OP1	2.04	0.58
2:1B:2:C:H2'	2:1B:3:C:C6	2.39	0.58
39:1h:29:SER:HB3	39:1h:32:LYS:HG3	1.86	0.58
1:2A:2507:C:H2'	1:2A:2508:G:O4'	2.03	0.58
13:2R:63:ARG:HG2	13:2R:67:LEU:HD22	1.85	0.58
19:2X:44:GLU:OE2	61:2X:201:HOH:O	2.17	0.58
32:2a:263:A:OP1	51:2t:79:ARG:NH1	2.36	0.58
51:2t:9:ASN:O	51:2t:10:LEU:HB2	2.03	0.58
1:1A:272(G):C:N3	1:1A:363(C):G:N2	2.40	0.57
1:1A:628:G:H2'	1:1A:629:G:C8	2.39	0.57
1:1A:1060:U:H3	1:1A:1088:A:H8	1.52	0.57
1:1A:1165:U:H2'	1:1A:1166:C:C6	2.38	0.57
32:1a:279:A:N6	48:1q:98:LEU:O	2.37	0.57
33:1b:101:MET:HG3	33:1b:108:ILE:HG21	1.86	0.57
37:1f:100:ASN:HB2	49:1r:28:GLU:HA	1.85	0.57
44:1m:87:TYR:O	44:1m:91:ARG:HG2	2.04	0.57
1:2A:302:C:OP2	20:2Y:73:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:952:G:OP1	12:2Q:16:ARG:NH2	2.36	0.57
22:20:32:ARG:H	22:20:35:ASN:ND2	2.02	0.57
32:2a:114:U:H2'	32:2a:115:G:C8	2.39	0.57
32:2a:559:A:P	36:2e:126:ARG:HH22	2.27	0.57
37:2f:99:ALA:HB2	49:2r:31:LEU:HD11	1.84	0.57
38:2g:9:VAL:O	38:2g:11:GLN:NE2	2.37	0.57
1:1A:1300:U:H4'	1:1A:1301:A:H5"	1.85	0.57
1:1A:2811:G:N2	1:1A:2891:G:H1'	2.19	0.57
4:1E:52:LEU:O	4:1E:76:ARG:N	2.33	0.57
15:1T:74:ARG:HG2	15:1T:76:PHE:CZ	2.38	0.57
32:1a:92:C:H2'	32:1a:93:G:C8	2.39	0.57
33:1b:43:ASP:OD2	33:1b:46:LYS:N	2.30	0.57
1:2A:1557:C:OP2	1:2A:1558:A:O2'	2.18	0.57
1:2A:1710:C:H5'	1:2A:2859:G:H1'	1.85	0.57
6:2G:165:THR:OG1	6:2G:166:ASP:N	2.34	0.57
11:2P:50:ARG:HD3	30:28:7:HIS:CD2	2.38	0.57
32:2a:404:U:O4	35:2d:2:GLY:N	2.36	0.57
32:2a:532:A:C2	32:2a:1055:A:H1'	2.39	0.57
34:2c:104:GLN:NE2	34:2c:105:GLU:O	2.37	0.57
37:2f:97:PHE:HE2	49:2r:62:GLU:HG2	1.69	0.57
55:2x:58:A:H4'	55:2x:59:A:OP1	2.04	0.57
1:1A:1340:U:OP1	19:1X:16:LYS:NZ	2.31	0.57
32:1a:1127:G:H5'	32:1a:1280:A:O2'	2.05	0.57
32:1a:1305:G:N2	32:1a:1331:G:H1'	2.18	0.57
33:1b:20:GLU:HG2	33:1b:23:ARG:HH11	1.68	0.57
1:2A:892:G:H2'	1:2A:893:C:H4'	1.86	0.57
1:2A:1313:U:OP1	61:2A:3951:HOH:O	2.16	0.57
1:2A:1889:A:N1	1:2A:2234:G:H1'	2.19	0.57
4:2E:101:ARG:HB3	4:2E:201:THR:HG21	1.86	0.57
6:2G:67:LYS:HD3	26:24:5:ILE:HD12	1.87	0.57
8:2I:12:LEU:HD22	8:2I:19:VAL:HG21	1.85	0.57
1:1A:1062:G:C8	1:1A:1070:A:H4'	2.37	0.57
1:1A:1113:U:H2'	1:1A:1114:G:C8	2.38	0.57
1:1A:1173:G:O2'	1:1A:1174:A:O4'	2.21	0.57
1:1A:2552:2MU:O5'	1:1A:2552:2MU:H6	2.04	0.57
1:1A:2613:U:OP1	61:1A:4268:HOH:O	2.17	0.57
4:1E:47:VAL:HG11	4:1E:86:PRO:HD2	1.85	0.57
1:2A:2127:G:O2'	1:2A:2173:A:N3	2.37	0.57
6:2G:7:LEU:HD13	6:2G:104:GLU:HA	1.86	0.57
32:2a:742:G:OP2	46:2o:35:ARG:NH2	2.37	0.57
32:2a:1323:G:H2'	32:2a:1324:A:C8	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:16:HIS:O	33:2b:18:GLY:N	2.38	0.57
44:2m:34:LEU:HD13	44:2m:41:PRO:HB3	1.84	0.57
1:1A:1047:G:H2'	1:1A:1110:G:H22	1.67	0.57
1:1A:1508:A:O2'	1:1A:1509:C:OP1	2.19	0.57
1:1A:2243:U:H2'	1:1A:2244:U:C6	2.40	0.57
1:2A:851:U:O2'	25:23:42:ALA:O	2.21	0.57
32:2a:1239:A:H62	32:2a:1299:A:N6	2.03	0.57
55:2x:15:G:H2'	55:2x:59:A:N1	2.18	0.57
56:2y:26:A:N1	56:2y:44:G:C6	2.72	0.57
1:1A:2506:U:O2'	54:1w:76:F3N:H4'	2.04	0.57
32:1a:406:G:H21	35:1d:119:GLN:HE22	1.52	0.57
1:2A:2136:C:O2'	1:2A:2137:C:O5'	2.20	0.57
40:2i:100:GLY:O	40:2i:102:LEU:N	2.37	0.57
41:2j:47:PHE:N	41:2j:63:PHE:O	2.31	0.57
1:1A:1062:G:P	1:1A:1070:A:H1'	2.44	0.57
1:1A:2693:A:H2'	1:1A:2694:G:H8	1.68	0.57
20:1Y:82:PRO:O	20:1Y:101:LYS:NZ	2.38	0.57
32:1a:922:G:H4'	36:1e:20:GLN:HA	1.87	0.57
1:2A:2533:A:OP1	1:2A:2665:A:O2'	2.21	0.57
2:2B:75:G:N2	21:2Z:87:ASP:OD1	2.37	0.57
6:2G:122:PRO:HB3	6:2G:170:ARG:HH21	1.70	0.57
8:2I:14:ASP:OD1	8:2I:15:VAL:N	2.38	0.57
9:2N:30:ILE:HG23	9:2N:52:VAL:HG11	1.86	0.57
17:2V:10:LYS:NZ	17:2V:23:GLU:OE2	2.35	0.57
18:2W:6:ILE:HG12	18:2W:104:THR:HG23	1.86	0.57
1:1A:2788:C:OP1	4:1E:61:ARG:NH2	2.38	0.57
18:1W:34:ASN:OD1	18:1W:37:ARG:NH2	2.38	0.57
32:1a:1469:G:H2'	32:1a:1470:G:C8	2.39	0.57
32:1a:1518:MA6:H93	32:1a:1519:MA6:H92	1.86	0.57
33:1b:114:ARG:NH1	33:1b:117:GLU:OE1	2.37	0.57
1:2A:1649:G:O2'	13:2R:107:ASP:OD2	2.19	0.57
1:2A:2127:G:N1	1:2A:2161:C:N4	2.53	0.57
1:2A:2169:A:H2'	1:2A:2170:A:C8	2.39	0.57
1:2A:2206:G:H3'	1:2A:2207:G:H8	1.70	0.57
2:2B:24:G:N7	2:2B:56:G:H2'	2.20	0.57
8:2I:40:THR:O	8:2I:44:LEU:HB2	2.04	0.57
14:2S:77:ALA:HB1	14:2S:82:ILE:HB	1.87	0.57
32:2a:1263:C:N3	32:2a:1272:G:O6	2.38	0.57
32:2a:1347:G:H22	32:2a:1374:A:P	2.27	0.57
32:2a:1366:C:H2'	32:2a:1367:C:C6	2.40	0.57
41:2j:30:SER:OG	41:2j:84:GLN:OE1	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:859:G:O2'	1:1A:916:G:O6	2.17	0.57
1:1A:1253:A:OP1	61:1A:4265:HOH:O	2.17	0.57
1:1A:2635:C:O2'	4:1E:80:GLU:OE2	2.20	0.57
32:1a:1003:G:C4	32:1a:1004:A:H2	2.23	0.57
32:1a:1060:C:H5"	41:1j:51:ARG:HG2	1.87	0.57
35:1d:187:ARG:NH2	35:1d:193:ASP:OD2	2.38	0.57
36:1e:8:GLU:HG2	36:1e:34:VAL:HG23	1.86	0.57
36:1e:147:ASP:OD1	36:1e:150:ARG:NH2	2.38	0.57
1:2A:1028:A:N6	1:2A:1125:G:H2'	2.20	0.57
1:2A:1188:U:H4'	17:2V:79:VAL:HG22	1.87	0.57
23:21:3:LYS:H	23:21:61:ARG:HH12	1.53	0.57
33:2b:24:TRP:HZ3	33:2b:29:ALA:HB2	1.70	0.57
56:2y:65:G:H2'	56:2y:66:U:C6	2.40	0.57
5:1F:157:VAL:HB	5:1F:194:MET:HG2	1.86	0.57
32:1a:123:C:OP1	32:1a:311:C:O2'	2.23	0.57
32:1a:636:U:H2'	32:1a:637:G:C8	2.36	0.57
40:1i:7:THR:O	40:1i:83:ARG:HD2	2.05	0.57
1:2A:1478:G:O2'	1:2A:1558:A:N1	2.38	0.57
1:2A:2383:G:OP2	30:28:37:SER:HB2	2.05	0.57
26:24:40:HIS:HB3	26:24:43:TYR:HB2	1.86	0.57
32:2a:651:C:N4	32:2a:753:A:OP2	2.37	0.57
35:2d:11:LEU:HD23	35:2d:66:ARG:HG2	1.87	0.57
47:2p:53:VAL:HG13	47:2p:79:VAL:HG22	1.86	0.57
56:2y:5:G:H1	56:2y:68:C:H42	1.53	0.57
1:1A:2693:A:H2'	1:1A:2694:G:C8	2.40	0.56
32:1a:192:U:H4'	51:1t:57:ARG:HD3	1.86	0.56
44:1m:17:VAL:O	44:1m:20:THR:OG1	2.19	0.56
32:2a:1051:C:N4	32:2a:1207:2MG:HN1	2.01	0.56
35:2d:122:ARG:NH1	35:2d:134:ASP:O	2.34	0.56
1:1A:1866:C:H2'	1:1A:1876:A:O4'	2.04	0.56
32:1a:984:C:H42	32:1a:1221:G:H1	1.53	0.56
41:1j:64:GLU:HG2	45:1n:59:ALA:HB2	1.86	0.56
54:1w:5:G:H2'	54:1w:6:G:C8	2.40	0.56
1:2A:212:G:H2'	1:2A:213:A:O4'	2.05	0.56
3:2D:218:ARG:HB3	3:2D:219:PRO:HD2	1.86	0.56
11:2P:100:LEU:HD12	11:2P:112:LEU:HD11	1.86	0.56
13:2R:2:ARG:HG2	13:2R:5:LYS:HB2	1.87	0.56
33:2b:71:VAL:HB	33:2b:164:VAL:HA	1.87	0.56
35:2d:108:LEU:HD11	35:2d:174:LEU:HB3	1.87	0.56
41:2j:8:LEU:HG	41:2j:16:LEU:HG	1.86	0.56
1:1A:516:C:OP1	27:15:13:LYS:NZ	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:918:A:N3	2:1B:80:U:O2'	2.37	0.56
1:1A:1192:G:OP2	61:1A:4269:HOH:O	2.18	0.56
1:1A:2291:U:H2'	1:1A:2292:C:C6	2.41	0.56
4:1E:77:ILE:HD13	4:1E:195:LEU:HD22	1.88	0.56
28:16:16:CYS:SG	28:16:18:ARG:NH1	2.79	0.56
32:1a:769:G:N7	61:1a:1961:HOH:O	2.32	0.56
32:1a:1391:U:H2'	32:1a:1392:G:C8	2.40	0.56
36:1e:144:THR:H	36:1e:147:ASP:HB2	1.70	0.56
37:1f:70:ASP:OD1	37:1f:70:ASP:N	2.37	0.56
39:1h:21:LYS:O	39:1h:65:TYR:OH	2.19	0.56
56:1y:15:G:N1	56:1y:48:C:N3	2.50	0.56
1:2A:492:A:H2'	1:2A:493:G:O4'	2.05	0.56
1:2A:602:G:O2'	1:2A:655:A:N6	2.39	0.56
1:2A:1796:U:H2'	1:2A:1797:C:C6	2.40	0.56
1:2A:2171:A:N3	1:2A:2172:U:N3	2.53	0.56
1:2A:2788:C:H2'	1:2A:2789:C:C5	2.40	0.56
2:2B:13:A:N1	2:2B:69:G:O2'	2.30	0.56
3:2D:73:VAL:HG13	3:2D:120:GLY:HA3	1.88	0.56
5:2F:167:ALA:HB1	5:2F:173:VAL:HG11	1.87	0.56
8:2I:57:ARG:HB2	8:2I:61:ARG:HH12	1.70	0.56
28:26:14:THR:OG1	28:26:48:VAL:O	2.24	0.56
32:2a:1029:C:N4	32:2a:1032:G:C6	2.74	0.56
32:2a:1134:G:C2	32:2a:1135:U:H1'	2.40	0.56
32:2a:1151:A:O2'	32:2a:1152:A:O5'	2.21	0.56
32:2a:1260:C:P	32:2a:1284:C:H4'	2.46	0.56
32:2a:1391:U:H2'	32:2a:1392:G:C8	2.40	0.56
33:2b:16:HIS:C	33:2b:18:GLY:H	2.14	0.56
37:2f:76:ALA:HB1	37:2f:80:ARG:HH22	1.70	0.56
39:2h:12:ARG:NH1	39:2h:27:PRO:HD3	2.20	0.56
1:1A:1047:G:H2'	1:1A:1110:G:N2	2.20	0.56
1:1A:1268:A:H2'	1:1A:1269:A:O4'	2.05	0.56
32:1a:276:G:O2'	48:1q:68:ARG:NH1	2.38	0.56
32:1a:473:G:OP2	47:1p:75:ARG:NH1	2.37	0.56
32:1a:532:A:N6	32:1a:1206:G:O2'	2.38	0.56
32:1a:749:C:H3'	32:1a:749:C:OP2	2.05	0.56
32:1a:1002:G:H3'	32:1a:1003:G:H4'	1.86	0.56
40:1i:128:ARG:NH2	55:1x:33:U:OP2	2.39	0.56
41:1j:5:ARG:NE	41:1j:73:ASP:OD1	2.38	0.56
1:2A:918:A:N3	2:2B:80:U:O2'	2.37	0.56
1:2A:1803:A:H4'	3:2D:259:THR:HG23	1.88	0.56
21:2Z:3:TYR:CD2	21:2Z:51:ALA:HB2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:126:VAL:HG13	21:2Z:161:VAL:HG23	1.87	0.56
32:2a:1273:G:H3'	32:2a:1274:G:H8	1.69	0.56
32:2a:1513:A:H2'	32:2a:1514:C:C6	2.40	0.56
34:2c:137:ALA:HA	34:2c:140:ARG:HH12	1.70	0.56
1:1A:1338:G:O2'	1:1A:1393:A:N1	2.33	0.56
1:1A:1426:G:O2'	1:1A:1572:A:N6	2.37	0.56
1:1A:2117:A:H61	1:1A:2172:U:H3	1.53	0.56
2:1B:25:A:OP2	61:1B:301:HOH:O	2.17	0.56
32:1a:376:G:H1	32:1a:387:U:H3	1.52	0.56
33:1b:16:HIS:HD2	33:1b:204:ASN:H	1.52	0.56
33:1b:69:LEU:HB3	33:1b:162:ILE:HG22	1.88	0.56
56:1y:55:PSU:N3	56:1y:57:G:H5'	2.21	0.56
1:2A:709:U:H2'	1:2A:710:G:C8	2.41	0.56
19:2X:32:PRO:HA	19:2X:77:LYS:HB2	1.88	0.56
32:2a:920:U:H2'	32:2a:921:U:C6	2.40	0.56
32:2a:1030(A):G:N2	32:2a:1030(D):A:OP2	2.38	0.56
1:1A:512:G:N1	61:1A:4316:HOH:O	2.24	0.56
33:1b:30:ARG:HH21	33:1b:194:PRO:HB2	1.71	0.56
39:1h:9:MET:HG3	39:1h:26:VAL:HG21	1.88	0.56
1:2A:1038:C:H42	1:2A:1117:G:H1	1.52	0.56
1:2A:1239:G:H2'	1:2A:1240:U:O4'	2.06	0.56
24:22:29:LYS:HE2	24:22:57:ILE:HG21	1.87	0.56
32:2a:157:G:H2'	32:2a:158:G:H8	1.70	0.56
32:2a:600:C:H2'	32:2a:601:C:C6	2.41	0.56
32:2a:692:U:O2'	32:2a:694:A:N7	2.34	0.56
32:2a:1097:C:O2'	32:2a:1169:A:N3	2.31	0.56
32:2a:1228:C:H2'	32:2a:1229:A:H8	1.69	0.56
32:2a:1438:G:H2'	32:2a:1439:C:C6	2.40	0.56
33:2b:19:HIS:ND1	33:2b:206:ASP:OD2	2.36	0.56
1:1A:528:A:O2'	1:1A:529:A:H5'	2.05	0.56
1:1A:747:U:O2	1:1A:2014:A:H1'	2.06	0.56
1:1A:1937:A:H1'	1:1A:1939:5MU:H72	1.87	0.56
26:14:18:CYS:SG	26:14:20:ASN:HB2	2.45	0.56
56:1y:67:C:H2'	56:1y:68:C:H6	1.71	0.56
1:2A:189:G:O6	1:2A:205:G:O2'	2.21	0.56
1:2A:307:G:H21	1:2A:330:A:H62	1.54	0.56
1:2A:1405:U:H2'	1:2A:1406:U:C6	2.40	0.56
11:2P:1:MET:HG2	11:2P:2:LYS:H	1.71	0.56
32:2a:674:G:N2	32:2a:717:C:O2	2.38	0.56
1:1A:919:G:N2	1:1A:2269:A:OP2	2.39	0.56
32:1a:96:U:H2'	32:1a:97:G:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:920:U:H2'	32:1a:921:U:C6	2.41	0.56
33:1b:166:ASP:HB3	33:1b:169:LYS:HB3	1.87	0.56
1:2A:1266:G:O2'	1:2A:2012:G:O6	2.21	0.56
1:2A:2328:A:H2'	1:2A:2329:G:C8	2.41	0.56
1:2A:2646:C:H2'	1:2A:2647:U:O4'	2.05	0.56
32:2a:1137:C:H5"	32:2a:1138:G:OP1	2.06	0.56
32:2a:1202:G:O4'	45:2n:29:ARG:NH1	2.38	0.56
50:2s:41:VAL:HG12	50:2s:44:MET:HG3	1.86	0.56
50:2s:41:VAL:HG13	50:2s:43:GLU:H	1.71	0.56
19:1X:94:GLY:H	19:1X:95:LEU:C	2.13	0.56
32:1a:1191:A:OP1	34:1c:4:LYS:NZ	2.37	0.56
36:1e:102:ALA:O	36:1e:107:ARG:NH2	2.38	0.56
5:2F:158:THR:O	5:2F:164:ARG:NH1	2.39	0.56
31:29:15:LYS:HB3	31:29:26:ILE:HG13	1.88	0.56
37:2f:6:VAL:HG22	37:2f:90:VAL:HG13	1.87	0.56
1:1A:1048:A:N1	1:1A:1112:G:O2'	2.34	0.56
1:1A:2136:C:N4	1:1A:2155:G:C6	2.70	0.56
32:1a:280:C:N3	48:1q:39:SER:OG	2.39	0.56
32:1a:677:U:H3	32:1a:713:G:H22	1.54	0.56
32:1a:742:G:OP2	46:1o:35:ARG:NH2	2.23	0.56
32:1a:993:G:H2'	32:1a:995:C:H41	1.71	0.56
32:1a:1456:G:C4	51:1t:55:ILE:HD11	2.41	0.56
42:1k:91:ARG:NH1	42:1k:110:ASP:OD1	2.38	0.56
1:2A:171:G:H2'	1:2A:172:C:C6	2.41	0.56
1:2A:1790:C:H5"	1:2A:1791:A:OP1	2.06	0.56
1:2A:2305:A:H5"	6:2G:134:GLY:HA3	1.86	0.56
3:2D:159:ALA:HB1	3:2D:198:ASN:HB3	1.88	0.56
32:2a:1272:G:N2	32:2a:1273:G:N7	2.52	0.56
32:2a:1404:5MC:O2	32:2a:1519:MA6:O2'	2.23	0.56
33:2b:178:ARG:HB3	39:2h:72:PRO:HA	1.86	0.56
1:1A:551:G:O2'	1:1A:1220:A:N3	2.38	0.55
1:1A:1082:U:N3	1:1A:1086:A:N6	2.06	0.55
1:1A:2144:U:H3'	1:1A:2146:C:H41	1.71	0.55
23:11:51:VAL:HG11	23:11:74:VAL:HG21	1.88	0.55
25:13:7:LYS:HE3	25:13:32:GLN:NE2	2.21	0.55
32:1a:321:A:N7	32:1a:328:C:O2'	2.35	0.55
1:2A:1355:G:O6	61:2A:3963:HOH:O	2.18	0.55
1:2A:2122:U:H3	1:2A:2176:A:H61	1.52	0.55
16:2U:104:GLN:NE2	16:2U:105:VAL:HG23	2.20	0.55
21:2Z:77:ASP:OD1	21:2Z:80:ARG:NH1	2.38	0.55
21:2Z:104:PHE:HA	21:2Z:139:VAL:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:573:A:N3	32:2a:883:C:O2'	2.38	0.55
32:2a:1133:G:H2'	32:2a:1134:G:C8	2.42	0.55
32:2a:1305:G:O2'	32:2a:1331:G:N2	2.39	0.55
35:2d:191:ARG:NH1	35:2d:191:ARG:O	2.39	0.55
37:2f:37:VAL:HG13	37:2f:65:VAL:HG12	1.89	0.55
40:2i:18:PHE:HD2	40:2i:62:TYR:HD2	1.54	0.55
1:1A:602:G:N1	1:1A:655:A:OP2	2.31	0.55
1:1A:2875:C:O2'	15:1T:2:ASN:OD1	2.15	0.55
32:1a:45:U:H2'	32:1a:46:G:C8	2.41	0.55
32:1a:407:G:OP1	35:1d:115:ARG:NH2	2.39	0.55
32:1a:1060:C:OP1	45:1n:45:ARG:NH2	2.38	0.55
5:2F:184:TYR:CE2	5:2F:188:ARG:HD2	2.40	0.55
7:2H:3:ARG:NH1	7:2H:5:GLY:H	2.03	0.55
9:2N:38:HIS:NE2	9:2N:50:ASP:OD2	2.32	0.55
18:2W:12:ILE:HD13	18:2W:17:VAL:HG13	1.88	0.55
21:2Z:27:VAL:HG12	21:2Z:85:HIS:HE1	1.71	0.55
32:2a:1105:A:H2'	32:2a:1106:G:C8	2.41	0.55
33:2b:24:TRP:CD1	33:2b:24:TRP:H	2.23	0.55
38:2g:69:VAL:HG11	38:2g:134:ALA:HB1	1.87	0.55
1:1A:61:G:OP1	24:12:51:ARG:NH2	2.39	0.55
1:1A:1055:G:N2	1:1A:1104:C:N3	2.48	0.55
1:1A:2801(A):A:H5"	1:1A:2802:G:C8	2.41	0.55
32:1a:610:G:OP1	61:1a:1920:HOH:O	2.18	0.55
32:1a:1093:A:H2'	32:1a:1095:U:H5'	1.88	0.55
34:1c:85:ARG:HB3	34:1c:85:ARG:HH11	1.71	0.55
35:1d:140:VAL:HG11	35:1d:146:ILE:HD11	1.88	0.55
55:1x:17:C:OP2	55:1x:17(A):U:O2'	2.22	0.55
2:2B:5:C:H42	2:2B:116:G:H1	1.54	0.55
21:2Z:100:VAL:HG21	21:2Z:134:PRO:HG2	1.88	0.55
27:25:2:ALA:N	61:25:201:HOH:O	2.39	0.55
32:2a:134:A:H61	47:2p:25:ARG:NH1	2.04	0.55
32:2a:671:G:H5'	37:2f:77:ARG:HH22	1.70	0.55
32:2a:1004:A:C6	32:2a:1037:C:H1'	2.42	0.55
32:2a:1074:G:O2'	32:2a:1101:A:N1	2.35	0.55
35:2d:173:TRP:CD1	35:2d:189:PRO:HG3	2.41	0.55
38:2g:153:HIS:CE1	42:2k:58:PRO:HD2	2.41	0.55
45:2n:6:LEU:HB3	45:2n:23:ARG:NH2	2.20	0.55
1:1A:881:G:H3'	1:1A:882:G:H8	1.70	0.55
1:1A:1439:A:H2'	1:1A:1440:G:O4'	2.06	0.55
1:1A:2144:U:H3	1:1A:2147:G:H22	1.54	0.55
1:1A:2590:A:H2'	1:1A:2591:C:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:10:23:VAL:HG22	22:10:38:VAL:HG22	1.88	0.55
32:1a:1525:G:P	42:1k:120:ARG:HH22	2.30	0.55
46:1o:55:GLY:HA2	46:1o:58:MET:HE3	1.89	0.55
1:2A:153:C:H2'	1:2A:154:G:O4'	2.07	0.55
1:2A:1243:G:O3'	11:2P:7:ARG:NH2	2.39	0.55
22:20:23:VAL:HG22	22:20:38:VAL:HG22	1.88	0.55
32:2a:804:U:OP1	61:2a:1921:HOH:O	2.18	0.55
32:2a:1127:G:N2	32:2a:1147:C:H41	2.04	0.55
32:2a:1525:G:OP1	42:2k:120:ARG:NH2	2.36	0.55
36:2e:24:ARG:NH1	53:2v:24:A:OP2	2.37	0.55
44:2m:101:GLN:OE1	44:2m:101:GLN:N	2.39	0.55
46:2o:30:ALA:HA	46:2o:85:LEU:HD11	1.86	0.55
1:1A:568:U:H5'	1:1A:945:A:N6	2.22	0.55
1:1A:784:A:C6	3:1D:229:VAL:HG11	2.42	0.55
4:1E:34:VAL:HG22	4:1E:48:GLN:NE2	2.22	0.55
1:2A:1721:G:H8	1:2A:1741:A:H62	1.54	0.55
1:2A:2125:G:N1	1:2A:2172:U:OP1	2.34	0.55
1:2A:2143:C:N3	1:2A:2148:G:N2	2.47	0.55
1:2A:2461:C:H2'	1:2A:2462:U:C6	2.42	0.55
3:2D:5:LYS:HG2	3:2D:17:THR:HG22	1.86	0.55
32:2a:9:G:OP2	36:2e:121:LYS:NZ	2.32	0.55
32:2a:67:C:H2'	32:2a:68:G:C8	2.42	0.55
32:2a:620:C:C2	35:2d:135:LEU:HG	2.41	0.55
1:1A:1039:G:H1	1:1A:1116:C:N4	1.99	0.55
1:1A:1093:G:O2'	1:1A:1098:A:N6	2.40	0.55
1:1A:2051:A:H5'	1:1A:2578:G:O4'	2.07	0.55
1:1A:2505:G:C2'	1:1A:2506:U:H5"	2.37	0.55
1:1A:2831:G:OP1	4:1E:58:ARG:NH2	2.40	0.55
32:1a:998:G:H1	32:1a:1043:C:N4	2.03	0.55
33:1b:158:LEU:HD21	33:1b:180:LEU:HD13	1.88	0.55
56:1y:53:G:H3'	56:1y:54:5MU:H73	1.88	0.55
56:1y:57:G:H2'	56:1y:58:A:H5'	1.88	0.55
1:2A:184:C:H2'	1:2A:185:U:C6	2.41	0.55
3:2D:232:PRO:O	61:2D:402:HOH:O	2.18	0.55
32:2a:1346:A:N1	32:2a:1374:A:H5"	2.21	0.55
32:2a:1499:A:H1'	32:2a:1520:G:H5'	1.88	0.55
1:1A:403:U:H4'	1:1A:404:C:H5'	1.88	0.55
1:1A:840:C:OP2	1:1A:932:G:N2	2.36	0.55
1:1A:1429:G:H2'	1:1A:1430:C:C6	2.41	0.55
1:1A:1670:C:O2	4:1E:129:HIS:NE2	2.30	0.55
4:1E:4:ILE:HD12	4:1E:91:VAL:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1P:63:PRO:HD3	30:18:27:THR:HG22	1.88	0.55
23:11:56:GLN:HB3	23:11:87:PRO:HG3	1.89	0.55
26:14:60:GLN:C	26:14:62:ARG:H	2.14	0.55
28:16:35:GLU:OE2	28:16:50:ARG:NH1	2.40	0.55
32:1a:373:A:H2'	32:1a:374:A:H8	1.72	0.55
38:1g:38:LEU:HA	38:1g:41:ARG:HD2	1.88	0.55
54:1w:5:G:H2'	54:1w:6:G:H8	1.71	0.55
1:2A:192:C:O2'	1:2A:802:A:N3	2.36	0.55
1:2A:271(J):C:O2'	1:2A:271(K):U:OP2	2.24	0.55
1:2A:370:G:OP2	61:2A:3957:HOH:O	2.17	0.55
1:2A:375:C:H2'	1:2A:376:C:C6	2.42	0.55
1:2A:989:G:OP2	25:23:11:SER:OG	2.23	0.55
1:2A:1183:G:H5"	25:23:30:ARG:NH2	2.21	0.55
1:2A:2273:A:H2'	1:2A:2274:A:C8	2.41	0.55
32:2a:1178:G:O2'	32:2a:1180:A:N7	2.36	0.55
43:2l:60:LEU:HD11	43:2l:66:VAL:HG22	1.89	0.55
46:2o:39:LEU:HD13	46:2o:56:LEU:HB2	1.89	0.55
49:2r:52:PRO:HB2	49:2r:54:ARG:HG2	1.89	0.55
1:1A:363:G:H2'	1:1A:363(A):A:H8	1.71	0.55
1:1A:652(U):G:H2'	1:1A:652(V):C:C6	2.42	0.55
1:1A:2185:C:H2'	1:1A:2186:G:C8	2.42	0.55
1:1A:2430:A:N3	1:1A:2430:A:H2'	2.21	0.55
32:1a:263:A:OP1	51:1t:79:ARG:NH1	2.40	0.55
32:1a:892:A:OP2	61:1a:1921:HOH:O	2.17	0.55
33:1b:163:PHE:HD1	33:1b:185:ILE:HG13	1.72	0.55
36:1e:80:ILE:HG23	36:1e:91:LEU:HB2	1.89	0.55
56:1y:9:A:O3'	56:1y:45:U:O2'	2.24	0.55
1:2A:667:U:O2	30:28:2:PRO:HD2	2.06	0.55
1:2A:2645:G:N2	1:2A:2767:C:OP2	2.40	0.55
3:2D:226:MET:O	61:2D:401:HOH:O	2.18	0.55
6:2G:36:LYS:HG2	6:2G:160:VAL:HB	1.88	0.55
32:2a:23:C:OP2	32:2a:561:U:N3	2.30	0.55
32:2a:35:G:O2'	43:2l:118:SER:O	2.23	0.55
32:2a:1060:C:H5"	41:2j:51:ARG:HB3	1.89	0.55
32:2a:1158:C:O2'	33:2b:133:LYS:NZ	2.39	0.55
1:1A:1226:A:OP1	17:1V:84:LYS:HE2	2.07	0.55
1:1A:1268:A:C2	1:1A:2013:A:C4	2.95	0.55
1:1A:2751:G:C4	7:1H:2:SER:HA	2.42	0.55
23:11:85:LEU:HB3	23:11:89:GLU:HB2	1.88	0.55
25:13:55:ARG:HH22	25:13:57:GLU:HB2	1.72	0.55
33:1b:33:TYR:HB2	33:1b:43:ASP:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:479:A:N3	1:2A:481:G:H5"	2.22	0.55
32:2a:1004:A:N3	32:2a:1038:C:C2	2.75	0.55
32:2a:1226:C:H2'	44:2m:103:THR:HB	1.88	0.55
32:2a:1347:G:HO2'	32:2a:1373:G:H1	1.55	0.55
34:2c:37:GLN:NE2	45:2n:52:GLN:OE1	2.22	0.55
54:2w:34:G:H2'	54:2w:35:A:C8	2.42	0.55
54:2w:43:C:H2'	54:2w:44:G:C8	2.42	0.55
1:1A:1052:C:H2'	1:1A:1053:C:H6	1.72	0.55
1:1A:1058:G:N1	1:1A:1080:C:N4	2.38	0.55
1:1A:1105:U:H2'	1:1A:1106:G:H8	1.71	0.55
1:1A:1176:G:H1'	1:1A:1177:A:H5"	1.88	0.55
1:1A:2522:U:O2'	1:1A:2647:U:OP1	2.22	0.55
7:1H:113:VAL:HG11	7:1H:151:ILE:HD13	1.88	0.55
32:1a:1169:A:H2'	32:1a:1170:A:C8	2.42	0.55
36:1e:89:ILE:HG21	36:1e:135:THR:HA	1.88	0.55
1:2A:747:U:O2	1:2A:2014:A:H1'	2.05	0.55
12:2Q:137:TYR:HE2	21:2Z:49:ARG:HH11	1.55	0.55
32:2a:769:G:H4'	32:2a:1513:A:H4'	1.89	0.55
32:2a:1051:C:H2'	32:2a:1052:U:C6	2.42	0.55
32:2a:1249:C:O4'	40:2i:70:LYS:NZ	2.40	0.55
32:2a:1301:U:O2'	32:2a:1302:U:H5'	2.08	0.55
33:2b:101:MET:HA	33:2b:108:ILE:HG13	1.88	0.55
35:2d:150:GLU:HA	35:2d:153:ARG:HD2	1.89	0.55
1:1A:893:C:H2'	1:1A:894:C:C6	2.41	0.54
1:1A:1044:G:H5'	1:1A:1045:A:OP2	2.07	0.54
17:1V:5:VAL:HG21	17:1V:35:LEU:HD23	1.87	0.54
17:1V:14:VAL:HB	17:1V:96:ILE:HG13	1.89	0.54
1:2A:2168:G:H8	1:2A:2170:A:N7	2.05	0.54
1:2A:2682:U:O2'	15:2T:58:ASN:ND2	2.40	0.54
32:2a:952:U:H2'	32:2a:953:G:C8	2.42	0.54
1:1A:1740:G:H2'	1:1A:1741:A:H8	1.71	0.54
6:1G:66:GLN:NE2	6:1G:93:THR:O	2.40	0.54
6:1G:145:THR:OG1	6:1G:148:MET:SD	2.63	0.54
10:1O:64:ARG:NH2	10:1O:99:PHE:O	2.41	0.54
18:1W:19:LEU:HB3	27:15:25:LEU:HD11	1.90	0.54
35:1d:111:ALA:HA	35:1d:161:ASN:HD22	1.73	0.54
1:2A:668:G:H5'	1:2A:669:G:OP2	2.05	0.54
6:2G:39:ILE:HG12	6:2G:157:ILE:HG12	1.89	0.54
9:2N:35:ARG:HD3	9:2N:37:LYS:HD2	1.89	0.54
14:2S:25:ARG:HB3	14:2S:40:ILE:HB	1.88	0.54
32:2a:8:A:N7	35:2d:208:SER:OG	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:839:U:H5"	32:2a:840:C:C5	2.42	0.54
32:2a:1352:C:H2'	32:2a:1353:G:C8	2.42	0.54
40:2i:93:ARG:O	40:2i:97:LYS:N	2.40	0.54
41:2j:27:ALA:HB2	41:2j:85:LEU:HD11	1.89	0.54
1:1A:270:A:OP2	1:1A:271(X):G:N1	2.30	0.54
1:1A:899:A:H2'	1:1A:899:A:N3	2.21	0.54
1:1A:1798:U:H5'	3:1D:259:THR:CG2	2.35	0.54
1:1A:2445:G:OP1	5:1F:74:ARG:NH2	2.38	0.54
5:1F:101:LEU:HD23	5:1F:106:ARG:HG3	1.88	0.54
35:1d:19:LEU:O	35:1d:21:LEU:HG	2.08	0.54
35:1d:79:PHE:HE1	35:1d:204:ILE:HD13	1.72	0.54
1:2A:131:G:OP1	61:2A:3959:HOH:O	2.18	0.54
1:2A:1364:G:N7	23:21:3:LYS:HD2	2.22	0.54
4:2E:9:VAL:HG13	4:2E:25:VAL:O	2.07	0.54
5:2F:156:LEU:HD21	5:2F:163:VAL:HG12	1.90	0.54
19:2X:43:VAL:HG21	19:2X:81:VAL:HG11	1.89	0.54
32:2a:142:G:H2'	32:2a:143:A:H8	1.71	0.54
32:2a:148:G:H2'	32:2a:149:A:H8	1.72	0.54
32:2a:881:G:P	43:2l:12:ARG:HH22	2.31	0.54
32:2a:1085:U:H3'	32:2a:1086:U:C6	2.42	0.54
32:2a:1310:G:H5'	44:2m:77:ASN:ND2	2.22	0.54
32:2a:1442:G:O2'	32:2a:1442(A):G:H5'	2.07	0.54
40:2i:32:ASP:OD1	40:2i:33:PHE:N	2.40	0.54
47:2p:5:ARG:HH21	47:2p:28:ARG:HA	1.71	0.54
50:2s:15:LEU:HD12	50:2s:18:LYS:HD2	1.89	0.54
1:1A:582:G:H2'	1:1A:583:G:C8	2.42	0.54
1:1A:736:C:OP1	61:1A:4272:HOH:O	2.18	0.54
1:1A:886:C:OP1	1:1A:886:C:H4'	2.08	0.54
1:1A:1256:G:H1'	5:1F:82:ILE:HD11	1.90	0.54
1:1A:2181:G:O2'	1:1A:2182:G:OP1	2.25	0.54
1:1A:2206:G:H8	1:1A:2207:G:N7	2.06	0.54
5:1F:7:TYR:CD2	5:1F:24:LEU:HB2	2.42	0.54
44:1m:82:MET:O	44:1m:93:ARG:NH2	2.40	0.54
1:2A:302:C:P	20:2Y:73:ARG:HH12	2.31	0.54
1:2A:1837:C:O2'	1:2A:1927:A:N3	2.34	0.54
12:2Q:39:PRO:HB3	12:2Q:99:PRO:HD3	1.87	0.54
22:20:11:ARG:O	22:20:14:ARG:NH2	2.36	0.54
24:22:65:ASN:OD1	24:22:69:ARG:NH1	2.39	0.54
32:2a:966:M2G:HM23	32:2a:967:5MC:H1'	1.89	0.54
9:1N:4:TYR:CD2	16:1U:100:VAL:HG11	2.42	0.54
34:1c:203:PHE:HZ	34:1c:206:GLU:HG2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:414:C:H2'	1:2A:415:A:C8	2.42	0.54
1:2A:2614:A:OP1	61:2A:3967:HOH:O	2.19	0.54
1:2A:2836:U:H2'	1:2A:2837:G:C8	2.42	0.54
32:2a:19:C:H5"	36:2e:86:ALA:HB3	1.89	0.54
32:2a:542:G:P	35:2d:10:ARG:HH22	2.30	0.54
32:2a:664:G:N2	32:2a:741:G:H1	2.04	0.54
33:2b:72:GLY:O	33:2b:94:ASN:ND2	2.36	0.54
35:2d:76:ARG:NE	35:2d:80:GLU:OE2	2.41	0.54
40:2i:86:VAL:HG11	40:2i:93:ARG:HE	1.73	0.54
1:1A:729:G:C6	3:1D:208:LYS:HB2	2.42	0.54
1:1A:1973:G:OP2	61:1A:4276:HOH:O	2.19	0.54
1:1A:2756:U:H5"	31:19:19:ARG:HB3	1.90	0.54
3:1D:26:LYS:HE2	3:1D:28:GLU:O	2.08	0.54
29:17:24:THR:HG22	29:17:27:GLY:H	1.73	0.54
30:18:23:VAL:HG13	30:18:47:LYS:HB3	1.88	0.54
33:1b:102:LEU:HB3	33:1b:180:LEU:HD12	1.88	0.54
33:1b:121:LEU:HA	33:1b:126:GLU:HG3	1.90	0.54
1:2A:468:G:N7	29:27:39:ARG:NH2	2.53	0.54
1:2A:1791:A:OP2	61:2A:3960:HOH:O	2.18	0.54
1:2A:2552:2MU:H6	1:2A:2552:2MU:O5'	2.08	0.54
6:2G:11:TYR:CZ	6:2G:16:ARG:HD3	2.42	0.54
32:2a:56:U:H2'	32:2a:57:G:H8	1.73	0.54
32:2a:489:C:H2'	32:2a:490:G:C8	2.43	0.54
32:2a:932:C:H5"	38:2g:4:ARG:HD3	1.88	0.54
32:2a:1251:A:H2'	32:2a:1252:A:C8	2.42	0.54
1:1A:71:A:OP2	61:1A:4274:HOH:O	2.18	0.54
1:1A:876:C:H2'	1:1A:877:U:O4'	2.08	0.54
1:1A:1939:5MU:OP1	1:1A:2604:U:O2'	2.23	0.54
1:1A:2464:C:H1'	61:1A:5787:HOH:O	2.08	0.54
1:1A:2564:A:C2	1:1A:2647:U:H4'	2.43	0.54
14:1S:61:ASN:HB3	14:1S:64:GLU:HB2	1.89	0.54
32:1a:399:G:H2'	32:1a:400:C:C6	2.43	0.54
32:1a:714:G:H2'	32:1a:715:A:C8	2.42	0.54
32:1a:1000:U:H3'	32:1a:1001:A:H8	1.73	0.54
46:1o:39:LEU:HD13	46:1o:56:LEU:HB2	1.89	0.54
1:2A:71:A:H5"	1:2A:73:A:C8	2.42	0.54
1:2A:1225:G:H4'	17:2V:84:LYS:HG2	1.90	0.54
1:2A:1689:A:H62	1:2A:1698:A:H2	1.56	0.54
32:2a:45:U:H2'	32:2a:46:G:C8	2.43	0.54
32:2a:717:C:O2'	32:2a:734:G:O4'	2.23	0.54
1:1A:842:G:N7	61:1A:4406:HOH:O	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:880:G:H2'	1:1A:881:G:C8	2.42	0.54
1:1A:1359:A:H2	1:1A:1372:U:O4	1.90	0.54
1:1A:2298:A:H2'	1:1A:2299:G:O4'	2.07	0.54
1:1A:2373:G:N7	61:1A:4403:HOH:O	2.33	0.54
4:1E:52:LEU:HB2	4:1E:76:ARG:HB2	1.89	0.54
8:1I:62:LYS:HG3	8:1I:136:VAL:HG21	1.89	0.54
8:1I:92:VAL:HG11	8:1I:144:VAL:HG11	1.89	0.54
15:1T:73:GLU:OE2	15:1T:103:ARG:NE	2.25	0.54
32:1a:1194:U:H4'	36:1e:22:GLY:HA2	1.90	0.54
32:1a:1530:G:H2'	32:1a:1531:A:C8	2.42	0.54
1:2A:500:G:N1	1:2A:503:A:OP2	2.40	0.54
1:2A:600:G:O6	61:2A:3961:HOH:O	2.18	0.54
1:2A:1462:C:H4'	1:2A:2703:C:H5'	1.89	0.54
1:2A:2298:A:H62	1:2A:2318:G:H8	1.55	0.54
1:2A:2469:A:H3'	1:2A:2470:G:H8	1.73	0.54
1:2A:2774:C:H2'	1:2A:2775:A:O4'	2.08	0.54
32:2a:728:A:OP1	46:2o:54:ARG:NH1	2.33	0.54
39:2h:7:ALA:O	39:2h:11:THR:OG1	2.24	0.54
41:2j:36:GLY:O	41:2j:38:ILE:HG12	2.08	0.54
54:2w:21:A:N6	54:2w:46:7MG:C4	2.76	0.54
54:2w:39:PSU:H2'	54:2w:40:C:C6	2.43	0.54
1:1A:1105:U:H2'	1:1A:1106:G:C8	2.43	0.54
1:1A:1243:G:O3'	11:1P:7:ARG:NH2	2.41	0.54
1:1A:1358:G:OP2	61:1A:4277:HOH:O	2.19	0.54
1:1A:2190:G:H2'	1:1A:2191:G:O4'	2.08	0.54
6:1G:72:ARG:NH1	6:1G:87:PRO:HG3	2.23	0.54
24:12:52:ASP:O	24:12:56:GLN:HG3	2.08	0.54
32:1a:1149:C:O2'	32:1a:1280:A:N1	2.41	0.54
56:1y:21:A:N6	56:1y:46:7MG:O2'	2.41	0.54
1:2A:100:G:O2'	24:22:7:ARG:NH2	2.41	0.54
1:2A:1430:C:H2'	1:2A:1431:U:C6	2.43	0.54
1:2A:1780:A:N6	61:2A:4144:HOH:O	2.41	0.54
1:2A:2127:G:C2	1:2A:2161:C:C4	2.96	0.54
1:2A:2853:C:H2'	1:2A:2854:G:H8	1.71	0.54
12:2Q:110:THR:HG22	12:2Q:112:GLU:H	1.73	0.54
18:2W:25:ARG:NH2	18:2W:74:ALA:O	2.39	0.54
25:23:8:LEU:HB2	25:23:28:LEU:HD22	1.90	0.54
32:2a:1252:A:H61	32:2a:1285:A:H61	1.56	0.54
32:2a:1272:G:N2	32:2a:1273:G:C8	2.75	0.54
33:2b:8:LYS:HG3	33:2b:9:GLU:H	1.72	0.54
34:2c:47:LEU:HD13	34:2c:68:VAL:HG11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:142:MET:HG3	34:2c:170:GLN:HB3	1.90	0.54
35:2d:72:GLU:OE2	35:2d:207:TYR:OH	2.22	0.54
44:2m:31:LYS:HA	44:2m:34:LEU:HD12	1.89	0.54
1:1A:191:A:H2'	1:1A:192:C:C6	2.43	0.54
1:1A:910:A:N1	1:1A:2277:G:H1'	2.23	0.54
1:1A:1665:A:H4'	10:1O:67:LYS:HB2	1.89	0.54
1:1A:2399:G:H1'	61:16:204:HOH:O	2.08	0.54
1:1A:2529:G:H5"	1:1A:2530:A:H5"	1.89	0.54
32:1a:8:A:N6	35:1d:205:GLU:O	2.40	0.54
32:1a:1004:A:H5'	32:1a:1024:G:H1	1.72	0.54
39:1h:51:VAL:HG21	39:1h:60:ARG:HB2	1.90	0.54
1:2A:200:U:O2	1:2A:386:G:N2	2.41	0.54
3:2D:145:VAL:HG13	3:2D:191:ALA:HB2	1.89	0.54
5:2F:197:ASP:O	5:2F:200:GLU:HB3	2.08	0.54
6:2G:15:VAL:HG22	6:2G:175:LEU:HB3	1.89	0.54
32:2a:244:U:OP2	48:2q:100:LYS:NZ	2.41	0.54
32:2a:448:A:P	32:2a:485:G:H22	2.31	0.54
32:2a:532:A:H2	32:2a:1055:A:H1'	1.72	0.54
32:2a:962:C:O2'	61:2a:1915:HOH:O	2.14	0.54
32:2a:1438:G:H2'	32:2a:1439:C:H6	1.73	0.54
33:2b:178:ARG:NH1	33:2b:198:ASP:OD1	2.41	0.54
40:2i:23:ASN:ND2	40:2i:25:LYS:HE2	2.23	0.54
40:2i:64:THR:OG1	40:2i:66:ARG:NH1	2.41	0.54
1:1A:2023:G:H4'	1:1A:2617:C:O3'	2.08	0.53
61:1A:4909:HOH:O	9:1N:73:THR:HG21	2.08	0.53
32:1a:1278:U:H5'	32:1a:1279:A:O4'	2.08	0.53
32:1a:1292:U:P	38:1g:41:ARG:HH22	2.29	0.53
35:1d:173:TRP:CD2	35:1d:189:PRO:HG3	2.43	0.53
40:1i:55:ALA:HA	40:1i:58:HIS:CD2	2.43	0.53
54:1w:2:C:H2'	54:1w:3:C:C6	2.43	0.53
1:2A:1275:A:N1	1:2A:1295:C:O2'	2.39	0.53
1:2A:1336:A:H2'	1:2A:1337:G:H8	1.71	0.53
1:2A:2336:A:H61	22:20:43:THR:HG21	1.72	0.53
9:2N:35:ARG:O	9:2N:42:TRP:NE1	2.38	0.53
12:2Q:56:ARG:HD2	54:2w:52:G:H4'	1.90	0.53
32:2a:1129:C:H5'	32:2a:1130:A:OP1	2.08	0.53
32:2a:1291:G:H4'	40:2i:39:GLY:HA3	1.91	0.53
51:2t:43:LEU:O	51:2t:47:GLY:N	2.35	0.53
56:2y:18:G:H4'	56:2y:60:U:H5	1.73	0.53
1:1A:822:U:OP2	61:1A:4275:HOH:O	2.18	0.53
8:1I:38:LEU:HG	8:1I:40:THR:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:12:65:ASN:OD1	24:12:69:ARG:NH1	2.41	0.53
51:1t:67:ALA:HB1	51:1t:74:LYS:HD2	1.88	0.53
1:2A:196:A:O2'	1:2A:805:G:O6	2.25	0.53
1:2A:249:C:O2	30:28:12:LYS:NZ	2.34	0.53
1:2A:902:C:H2'	1:2A:903:C:H6	1.73	0.53
1:2A:907:U:O2'	12:2Q:101:ARG:NH2	2.28	0.53
1:2A:952:G:P	12:2Q:16:ARG:HH21	2.30	0.53
1:2A:1792:G:O2'	1:2A:1830:C:OP1	2.27	0.53
4:2E:12:THR:HG22	4:2E:13:ARG:H	1.73	0.53
5:2F:20:LEU:HG	5:2F:21:ALA:H	1.72	0.53
32:2a:1002:G:N3	32:2a:1003:G:H1'	2.23	0.53
36:2e:83:GLU:HA	36:2e:88:LYS:HA	1.90	0.53
54:2w:58:A:O2'	54:2w:60:U:OP2	2.18	0.53
23:11:57:GLU:OE1	61:11:201:HOH:O	2.19	0.53
32:1a:233:C:H2'	32:1a:234:C:H6	1.73	0.53
32:1a:1314:C:N4	50:1s:2:PRO:O	2.36	0.53
1:2A:300:A:OP1	20:2Y:86:ARG:NH2	2.41	0.53
1:2A:646:A:H2'	1:2A:647:G:O4'	2.09	0.53
1:2A:910:A:H2'	1:2A:911:A:C8	2.43	0.53
5:2F:120:GLU:HG3	5:2F:122:LYS:HG2	1.89	0.53
10:2O:120:GLU:HB2	15:2T:68:TYR:HE2	1.73	0.53
12:2Q:17:LEU:HB3	12:2Q:39:PRO:HB2	1.89	0.53
16:2U:102:GLU:OE2	17:2V:13:ARG:NH2	2.35	0.53
19:2X:57:LEU:HA	61:2X:203:HOH:O	2.09	0.53
32:2a:108:G:C6	51:2t:15:ARG:HG2	2.43	0.53
32:2a:501:C:H2'	32:2a:502:G:H8	1.74	0.53
32:2a:765:G:N1	32:2a:812:C:O2'	2.29	0.53
32:2a:1086:U:H2'	32:2a:1087:G:H8	1.73	0.53
32:2a:1316:G:H5"	45:2n:17:LYS:HE3	1.89	0.53
33:2b:155:LEU:HD21	33:2b:159:PRO:HD3	1.91	0.53
34:2c:17:ASP:HB3	34:2c:21:ARG:NH1	2.23	0.53
1:1A:529:A:OP2	9:1N:114:ARG:NH2	2.41	0.53
1:1A:1815:A:P	3:1D:54:ARG:HH22	2.31	0.53
1:1A:2096:U:H3	1:1A:2193:G:H1	1.56	0.53
1:1A:2319:G:H22	14:1S:3:ARG:HD3	1.72	0.53
5:1F:184:TYR:CE2	5:1F:188:ARG:HD2	2.44	0.53
18:1W:67:ASP:OD1	18:1W:67:ASP:N	2.41	0.53
27:15:48:GLU:C	27:15:60:VAL:HG11	2.34	0.53
32:1a:690:G:C6	32:1a:691:G:C6	2.96	0.53
44:1m:3:ARG:HH22	44:1m:45:VAL:CG1	2.18	0.53
1:2A:245:G:O6	30:28:8:LYS:NZ	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:28:26:LYS:HB2	30:28:44:LYS:O	2.08	0.53
32:2a:22:G:H5'	32:2a:885:G:OP2	2.09	0.53
32:2a:757:U:H2'	32:2a:758:G:O4'	2.08	0.53
32:2a:1178:G:N2	32:2a:1180:A:H3'	2.24	0.53
32:2a:1239:A:O2'	38:2g:114:ARG:O	2.17	0.53
32:2a:1310:G:H5'	44:2m:77:ASN:HD21	1.73	0.53
1:1A:994:C:OP1	16:1U:53:ARG:NH2	2.41	0.53
1:1A:2250:G:OP1	12:1Q:85:LYS:NZ	2.38	0.53
4:1E:167:VAL:HG13	4:1E:170:LEU:HD11	1.91	0.53
32:1a:17:U:H2'	32:1a:18:C:C6	2.43	0.53
32:1a:642:A:N3	39:1h:113:SER:OG	2.39	0.53
1:2A:303:U:O4	61:2A:3969:HOH:O	2.19	0.53
1:2A:1015:G:H2'	1:2A:1016:G:C8	2.44	0.53
1:2A:1171:G:H22	1:2A:1178:C:H42	1.57	0.53
1:2A:1265:A:H61	1:2A:2013:A:H5"	1.74	0.53
6:2G:29:TRP:O	6:2G:33:ARG:NH1	2.34	0.53
7:2H:54:ARG:NE	7:2H:57:ASP:OD1	2.31	0.53
32:2a:134:A:H61	47:2p:25:ARG:HH12	1.54	0.53
32:2a:173:U:H5"	32:2a:197:A:O4'	2.09	0.53
32:2a:976:G:OP1	45:2n:32:SER:N	2.41	0.53
1:1A:1093:G:H3'	1:1A:1094:U:H5"	1.90	0.53
1:1A:2128:C:N4	1:1A:2160:G:N1	2.27	0.53
1:1A:2137:C:H2'	1:1A:2138:C:C6	2.44	0.53
1:1A:2185:C:H2'	1:1A:2186:G:H8	1.73	0.53
8:1I:116:LEU:HD21	8:1I:119:PRO:HA	1.91	0.53
13:1R:52:ILE:HG12	13:1R:79:LEU:HD21	1.90	0.53
34:1c:131:ARG:NH1	34:1c:167:TRP:O	2.33	0.53
35:1d:159:ARG:HE	35:1d:181:MET:HE1	1.72	0.53
43:1l:88:GLY:O	43:1l:99:HIS:HD2	1.91	0.53
1:2A:252:G:OP1	11:2P:50:ARG:NH1	2.27	0.53
1:2A:534:U:O2'	16:2U:49:HIS:ND1	2.40	0.53
1:2A:601:C:OP1	5:2F:108:LYS:HE3	2.09	0.53
1:2A:674:G:H1'	5:2F:74:ARG:HD3	1.88	0.53
1:2A:994:C:H1'	17:2V:10:LYS:NZ	2.22	0.53
1:2A:1418:G:OP2	61:2A:3968:HOH:O	2.19	0.53
1:2A:2051:A:H5'	1:2A:2578:G:O4'	2.09	0.53
1:2A:2136:C:C4	1:2A:2155:G:N1	2.74	0.53
15:2T:105:LEU:HB2	15:2T:110:ILE:HG13	1.90	0.53
24:22:32:LEU:HA	24:22:53:LEU:HD13	1.89	0.53
26:24:61:ARG:HG2	50:2s:42:PRO:HG2	1.90	0.53
32:2a:952:U:H2'	32:2a:953:G:H8	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1179:A:H2'	32:2a:1180:A:O4'	2.08	0.53
51:2t:26:ASN:HA	51:2t:71:THR:HG23	1.90	0.53
5:1F:172:TRP:CD1	5:1F:172:TRP:H	2.25	0.53
17:1V:98:GLU:OE2	17:1V:100:ARG:NH1	2.40	0.53
32:1a:194:C:H2'	32:1a:195:A:H5"	1.89	0.53
33:1b:90:MET:HE2	33:1b:90:MET:HA	1.90	0.53
1:2A:324:A:N6	1:2A:338:G:O2'	2.40	0.53
4:2E:101:ARG:CZ	4:2E:171:GLU:HB2	2.38	0.53
4:2E:132:HIS:O	61:2E:401:HOH:O	2.19	0.53
32:2a:606:G:N2	32:2a:631:G:N7	2.57	0.53
32:2a:1086:U:H3	32:2a:1099:G:H22	1.56	0.53
34:2c:134:ILE:HG22	34:2c:168:ALA:HB3	1.89	0.53
39:2h:83:ILE:HB	39:2h:137:VAL:HG13	1.91	0.53
41:2j:78:ASN:O	41:2j:80:LYS:N	2.42	0.53
1:1A:120:U:H5"	1:1A:122:G:OP2	2.09	0.53
1:1A:185:U:H4'	1:1A:218:A:H4'	1.91	0.53
1:1A:800:A:H8	1:1A:800:A:OP1	1.92	0.53
9:1N:17:ASP:O	9:1N:21:LYS:HE2	2.09	0.53
32:1a:325:A:OP2	51:1t:70:SER:OG	2.21	0.53
32:1a:966:M2G:N7	61:1a:1963:HOH:O	2.34	0.53
32:1a:1292:U:OP2	38:1g:41:ARG:NH2	2.29	0.53
37:1f:6:VAL:HG13	37:1f:90:VAL:HG22	1.91	0.53
44:1m:84:ILE:HB	50:1s:66:MET:HE2	1.91	0.53
44:1m:98:VAL:HG23	44:1m:99:ARG:HG3	1.90	0.53
1:2A:689:A:N6	61:2A:4125:HOH:O	2.38	0.53
1:2A:1406:U:H2'	1:2A:1407:C:C6	2.44	0.53
1:2A:2884:U:OP1	61:2A:3970:HOH:O	2.19	0.53
8:2I:80:PRO:HA	8:2I:145:VAL:HG23	1.91	0.53
32:2a:1054:C:C4	54:2w:34:G:H1'	2.44	0.53
35:2d:92:VAL:O	35:2d:96:LEU:HD22	2.09	0.53
1:1A:1071:G:H1'	1:1A:1089:G:H2'	1.90	0.53
7:1H:33:LEU:HD21	7:1H:136:ILE:HG13	1.90	0.53
32:1a:973:G:H3'	32:1a:974:A:H5"	1.91	0.53
32:1a:1039:C:H2'	32:1a:1040:U:C6	2.44	0.53
32:1a:1053:G:O2'	61:1a:1923:HOH:O	2.19	0.53
32:1a:1228:C:OP2	44:1m:108:ARG:NH2	2.42	0.53
32:1a:1507:A:OP2	53:1v:13:A:N6	2.42	0.53
37:1f:19:LEU:HD11	37:1f:59:TYR:CE1	2.44	0.53
1:2A:686:G:H21	1:2A:788:A:H61	1.57	0.53
1:2A:1389:G:N7	61:2A:4074:HOH:O	2.34	0.53
1:2A:2785:C:O2'	4:2E:66:HIS:ND1	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:701:C:O2	32:2a:703:G:N1	2.42	0.53
32:2a:782:A:OP1	32:2a:1521:G:N2	2.37	0.53
32:2a:1156:G:O2'	32:2a:1180:A:N1	2.42	0.53
32:2a:1423:G:H2'	32:2a:1424:C:C6	2.44	0.53
33:2b:15:VAL:O	33:2b:17:PHE:N	2.39	0.53
34:2c:40:ARG:O	34:2c:44:GLU:HB2	2.08	0.53
37:2f:1:MET:N	37:2f:69:GLU:OE2	2.42	0.53
1:1A:12:U:O2	1:1A:2626:C:H4'	2.09	0.53
1:1A:527:C:OP1	61:1A:4273:HOH:O	2.18	0.53
1:1A:579:G:H2'	1:1A:580:C:C6	2.44	0.53
8:1I:37:VAL:HG12	8:1I:38:LEU:HD23	1.90	0.53
32:1a:1427:U:H2'	32:1a:1428:A:C8	2.44	0.53
40:1i:28:VAL:HG22	40:1i:63:ILE:HB	1.91	0.53
56:1y:67:C:H2'	56:1y:68:C:C6	2.44	0.53
1:2A:764:A:H5'	3:2D:210:GLY:HA2	1.90	0.53
1:2A:793:A:OP2	1:2A:2071:A:O2'	2.26	0.53
1:2A:1231:G:H2'	1:2A:1232:G:C8	2.44	0.53
1:2A:2086:U:H2'	1:2A:2087:G:C8	2.43	0.53
10:2O:68:GLU:HB3	10:2O:78:ARG:HB3	1.90	0.53
17:2V:40:LEU:HD11	17:2V:55:ALA:HB2	1.90	0.53
32:2a:129(A):G:C6	32:2a:189(E):U:H4'	2.43	0.53
32:2a:163:C:H2'	32:2a:164:U:C6	2.44	0.53
32:2a:890:G:O2'	32:2a:906:G:O6	2.20	0.53
32:2a:925:G:H1'	32:2a:1502:A:C4	2.44	0.53
32:2a:974:A:P	45:2n:29:ARG:HH21	2.31	0.53
32:2a:1135:U:H2'	32:2a:1137:C:C2	2.44	0.53
55:2x:55:PSU:O2'	55:2x:57:A:N7	2.36	0.53
1:1A:284:U:H2'	1:1A:285:C:C6	2.44	0.52
1:1A:862:G:H2'	1:1A:863:A:O4'	2.09	0.52
3:1D:37:LEU:HD13	3:1D:62:TYR:HB2	1.92	0.52
13:1R:38:VAL:HG22	13:1R:112:ALA:HB2	1.91	0.52
19:1X:50:LYS:HB3	19:1X:84:ALA:HB2	1.90	0.52
21:1Z:52:SER:C	21:1Z:54:HIS:H	2.17	0.52
1:2A:11:G:H2'	1:2A:12:U:H5'	1.90	0.52
1:2A:330:A:H2	1:2A:1210:A:HO2'	1.56	0.52
1:2A:958:U:O2	2:2B:90:A:O2'	2.18	0.52
6:2G:7:LEU:HD23	6:2G:100:TRP:HE3	1.73	0.52
9:2N:108:PRO:O	9:2N:113:GLY:HA3	2.09	0.52
15:2T:28:VAL:HG13	15:2T:86:ILE:HG23	1.91	0.52
33:2b:178:ARG:NH2	39:2h:74:PRO:HB3	2.24	0.52
1:1A:1338:G:N7	19:1X:62:LYS:NZ	2.46	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1000:U:C4	32:1a:1041:A:N1	2.76	0.52
41:1j:40:LEU:HB2	41:1j:69:ASN:HB2	1.89	0.52
50:1s:51:VAL:O	50:1s:58:VAL:N	2.39	0.52
1:2A:11:G:C2'	1:2A:12:U:H5'	2.39	0.52
1:2A:288:C:H2'	1:2A:289:A:C8	2.44	0.52
1:2A:2299:G:N1	1:2A:2318:G:N7	2.58	0.52
61:2A:3918:HOH:O	13:2R:3:HIS:NE2	2.34	0.52
6:2G:72:ARG:HG2	6:2G:87:PRO:HA	1.89	0.52
8:2I:101:LEU:HD22	8:2I:107:VAL:HB	1.90	0.52
50:2s:27:GLU:HB2	50:2s:28:LYS:HA	1.90	0.52
32:1a:8:A:N7	35:1d:208:SER:OG	2.37	0.52
32:1a:1027:C:C4	32:1a:1034:G:C2	2.97	0.52
34:1c:79:ARG:O	34:1c:82:GLU:HG2	2.09	0.52
1:2A:328:U:H4'	20:2Y:68:HIS:CG	2.44	0.52
1:2A:577:G:O2'	1:2A:1254:A:OP1	2.27	0.52
1:2A:784:A:N6	3:2D:229:VAL:HG11	2.24	0.52
1:2A:2495:G:OP1	12:2Q:82:ARG:NE	2.42	0.52
2:2B:3:C:H2'	2:2B:4:C:C6	2.44	0.52
8:2I:101:LEU:HD23	8:2I:105:HIS:HB2	1.91	0.52
17:2V:39:LEU:HD12	17:2V:47:VAL:HG13	1.91	0.52
32:2a:45:U:H2'	32:2a:46:G:H8	1.73	0.52
33:2b:24:TRP:H	33:2b:24:TRP:HD1	1.55	0.52
56:2y:60:U:O2'	56:2y:61:C:H5'	2.09	0.52
6:1G:22:ARG:NH2	6:1G:175:LEU:HD11	2.25	0.52
12:1Q:37:LEU:HD21	12:1Q:130:LYS:HD3	1.91	0.52
32:1a:1226:C:H4'	50:1s:80:TYR:OH	2.09	0.52
32:1a:1286:A:H2'	32:1a:1287:A:H4'	1.91	0.52
35:1d:60:GLU:OE2	35:1d:63:LYS:NZ	2.29	0.52
37:1f:36:ARG:NH1	37:1f:66:GLU:OE2	2.39	0.52
48:1q:65:ILE:HB	48:1q:69:LYS:HB3	1.90	0.52
1:2A:827:U:OP1	61:2A:3966:HOH:O	2.18	0.52
4:2E:170:LEU:HB3	4:2E:184:VAL:HG22	1.90	0.52
9:2N:49:GLY:O	9:2N:119:ARG:NH1	2.41	0.52
32:2a:1133:G:H2'	32:2a:1134:G:H8	1.74	0.52
33:2b:55:PHE:HE1	33:2b:218:ALA:HA	1.73	0.52
47:2p:60:LEU:HD21	47:2p:80:PHE:HE1	1.73	0.52
48:2q:68:ARG:H	48:2q:70:ARG:NH1	2.06	0.52
50:2s:64:GLU:CD	50:2s:64:GLU:H	2.18	0.52
1:1A:248:G:OP1	61:1A:4278:HOH:O	2.19	0.52
1:1A:536:A:H2'	1:1A:537:C:C6	2.44	0.52
1:1A:1889:A:H2'	1:1A:1890:A:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:84:GLU:HA	33:1b:87:ARG:HD3	1.92	0.52
37:1f:38:GLU:HB2	37:1f:64:GLN:HG2	1.91	0.52
55:1x:50:U:H2'	55:1x:51:C:C6	2.44	0.52
1:2A:2356:C:H2'	1:2A:2357:U:O4'	2.10	0.52
6:2G:3:LEU:HD22	26:24:25:TYR:CZ	2.44	0.52
12:2Q:34:LEU:HB2	12:2Q:118:LEU:HD22	1.91	0.52
20:2Y:6:HIS:H	20:2Y:6:HIS:CD2	2.26	0.52
25:23:7:LYS:HG2	25:23:9:VAL:HG13	1.91	0.52
32:2a:142:G:H2'	32:2a:143:A:C8	2.44	0.52
33:2b:219:VAL:HA	33:2b:222:ILE:HG12	1.91	0.52
38:2g:113:GLU:OE2	38:2g:122:HIS:ND1	2.41	0.52
40:2i:28:VAL:HB	40:2i:63:ILE:HB	1.91	0.52
44:2m:92:HIS:HA	44:2m:110:ARG:HH21	1.74	0.52
1:1A:286:C:H42	1:1A:355:G:H1	1.57	0.52
1:1A:1800:C:OP1	3:1D:260:ARG:NH2	2.43	0.52
1:1A:2218:U:O4'	23:11:52:ARG:NH2	2.40	0.52
32:1a:67:C:H2'	32:1a:68:G:C8	2.45	0.52
32:1a:1101:A:H4'	32:1a:1102:A:O5'	2.09	0.52
32:1a:1452:C:O2'	32:1a:1456:G:H5"	2.10	0.52
44:1m:91:ARG:NE	44:1m:97:PRO:O	2.32	0.52
45:1n:6:LEU:HB3	45:1n:23:ARG:NH2	2.24	0.52
1:2A:271(K):U:O2	8:2I:50:ARG:NE	2.40	0.52
1:2A:938:G:OP2	30:28:52:LYS:NZ	2.38	0.52
1:2A:1756:G:H4'	1:2A:1758:G:O4'	2.10	0.52
1:2A:1794:U:H2'	1:2A:1795:C:H6	1.74	0.52
34:2c:131:ARG:HD3	34:2c:166:GLU:HG2	1.91	0.52
41:2j:32:ALA:HB1	41:2j:33:GLN:HA	1.92	0.52
1:1A:942:G:O2'	1:1A:1189:A:N3	2.39	0.52
1:1A:1588:C:H2'	1:1A:1589:C:C6	2.45	0.52
1:1A:1826:G:H4'	3:1D:242:ARG:CZ	2.40	0.52
1:1A:1947:C:HO2'	32:1a:1483:A:HO2'	1.53	0.52
15:1T:19:LEU:HD22	15:1T:86:ILE:HG13	1.91	0.52
19:1X:44:GLU:HG2	19:1X:49:VAL:O	2.09	0.52
32:1a:691:G:H2'	32:1a:692:U:C6	2.44	0.52
32:1a:757:U:H2'	32:1a:758:G:O4'	2.09	0.52
37:1f:16:GLN:H	37:1f:16:GLN:CD	2.18	0.52
43:1l:83:VAL:HG21	43:1l:100:ILE:HD13	1.92	0.52
1:2A:493:G:H2'	1:2A:494:G:O4'	2.10	0.52
1:2A:1035:U:H3	1:2A:1120:G:H1	1.58	0.52
1:2A:2379:G:O2'	14:2S:17:ARG:NH2	2.43	0.52
2:2B:52:A:N6	14:2S:33:LYS:HG2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:105:A:H5'	2:2B:106:G:OP2	2.10	0.52
10:2O:2:ILE:O	10:2O:33:ALA:N	2.41	0.52
26:24:44:THR:OG1	26:24:45:GLY:N	2.42	0.52
32:2a:8:A:H5'	36:2e:101:ILE:HG22	1.92	0.52
32:2a:881:G:OP2	43:2l:12:ARG:NH2	2.43	0.52
32:2a:1372:U:H5"	40:2i:71:SER:HB3	1.91	0.52
38:2g:22:LEU:HD21	38:2g:66:VAL:HG11	1.90	0.52
1:1A:323:G:H1'	1:1A:1205:U:O2	2.10	0.52
1:1A:1062:G:H2'	1:1A:1063:G:C8	2.45	0.52
1:1A:1395:A:OP1	61:1A:4279:HOH:O	2.19	0.52
1:1A:2849:U:OP2	15:1T:95:ARG:NH1	2.42	0.52
32:1a:632:A:OP1	39:1h:98:LYS:NZ	2.39	0.52
32:1a:1040:U:H2'	32:1a:1041:A:C8	2.45	0.52
38:1g:113:GLU:HG3	38:1g:118:VAL:HG12	1.91	0.52
1:2A:315:G:H2'	1:2A:316:C:C6	2.45	0.52
1:2A:854:G:H2'	1:2A:855:G:H8	1.74	0.52
1:2A:882:G:H2'	1:2A:883:G:C8	2.44	0.52
1:2A:995:C:O2	9:2N:3:THR:OG1	2.24	0.52
1:2A:1697:G:OP2	1:2A:1698:A:O2'	2.23	0.52
1:2A:2105:C:H2'	1:2A:2106:G:C8	2.45	0.52
2:2B:22:U:H2'	2:2B:23:G:C8	2.44	0.52
8:2I:130:TYR:CE2	8:2I:132:PRO:HB3	2.45	0.52
9:2N:58:ASP:OD1	9:2N:58:ASP:N	2.42	0.52
32:2a:571:U:OP1	61:2a:1924:HOH:O	2.18	0.52
32:2a:580:U:H5"	46:2o:58:MET:HG2	1.92	0.52
32:2a:1170:A:C5	32:2a:1171:G:H1'	2.45	0.52
33:2b:16:HIS:CB	33:2b:210:SER:HB2	2.36	0.52
34:2c:131:ARG:HH21	34:2c:135:LYS:HE3	1.74	0.52
34:2c:182:ILE:HG12	34:2c:203:PHE:CD1	2.42	0.52
1:1A:271(I):G:H2'	1:1A:271(J):C:C2	2.45	0.52
1:1A:363(A):A:H2'	1:1A:363(B):G:C8	2.45	0.52
1:1A:878:A:N6	1:1A:899:A:O2'	2.43	0.52
1:1A:1816:G:O6	3:1D:35:LYS:NZ	2.35	0.52
1:1A:2629:A:H1'	1:1A:2630:G:C5'	2.39	0.52
4:1E:3:GLY:HA3	4:1E:81:ILE:HD12	1.92	0.52
10:1O:64:ARG:HB2	10:1O:79:PHE:CG	2.44	0.52
23:11:77:ALA:HB2	23:11:94:LEU:HD21	1.91	0.52
32:1a:341:C:H2'	32:1a:342:C:H6	1.74	0.52
34:1c:22:TRP:CZ2	45:1n:54:PRO:HG2	2.45	0.52
41:1j:5:ARG:NH2	41:1j:73:ASP:OD2	2.43	0.52
1:2A:706:A:OP1	3:2D:7:LYS:NZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1899:G:H2'	1:2A:1899:G:N3	2.24	0.52
1:2A:2472:G:H2'	1:2A:2475:C:H42	1.75	0.52
1:2A:2543:G:H2'	1:2A:2544:G:C8	2.44	0.52
1:2A:2663:G:H3'	1:2A:2664:G:H8	1.74	0.52
3:2D:183:ARG:HG3	3:2D:270:ILE:HD13	1.91	0.52
6:2G:69:ALA:HB3	6:2G:91:ARG:HH21	1.75	0.52
9:2N:96:GLU:CD	9:2N:96:GLU:H	2.18	0.52
32:2a:7:G:H5'	32:2a:298:A:O4'	2.10	0.52
32:2a:427:U:O2'	32:2a:541:G:OP1	2.27	0.52
32:2a:1310:G:H2'	32:2a:1311:G:C8	2.45	0.52
33:2b:185:ILE:HB	33:2b:199:TYR:HB2	1.92	0.52
41:2j:33:GLN:HG3	41:2j:34:VAL:N	2.25	0.52
48:2q:26:GLN:HA	48:2q:36:ILE:O	2.08	0.52
56:2y:14:A:H61	56:2y:21:A:H2	1.58	0.52
1:1A:305:U:H2'	1:1A:306:U:C6	2.45	0.52
1:1A:969:U:H2'	1:1A:970:C:C6	2.44	0.52
1:1A:1062:G:H22	1:1A:1077:A:H61	1.58	0.52
1:1A:1740:G:H2'	1:1A:1741:A:C8	2.44	0.52
1:1A:2022:U:O2'	1:1A:2617:C:H5'	2.10	0.52
35:1d:110:PHE:HE2	35:1d:146:ILE:HG22	1.75	0.52
37:1f:33:TYR:OH	37:1f:78:GLU:HG3	2.10	0.52
41:1j:35:SER:HB3	41:1j:73:ASP:HB2	1.92	0.52
50:1s:31:ILE:O	50:1s:50:ALA:N	2.38	0.52
56:1y:19:G:N2	56:1y:56:C:N3	2.58	0.52
14:2S:48:LEU:HD23	14:2S:82:ILE:HD11	1.90	0.52
32:2a:473:G:H2'	32:2a:474:G:C8	2.45	0.52
32:2a:942:G:N2	40:2i:124:GLN:OE1	2.28	0.52
32:2a:1030(A):G:N3	32:2a:1030(C):G:C8	2.78	0.52
32:2a:1119:C:H2'	32:2a:1120:G:C8	2.43	0.52
36:2e:136:MET:HA	36:2e:139:LEU:HD12	1.92	0.52
44:2m:13:LYS:HA	44:2m:44:ARG:HH11	1.74	0.52
1:1A:2228:G:P	3:1D:263:ARG:HH12	2.32	0.51
33:1b:16:HIS:CG	33:1b:17:PHE:N	2.78	0.51
55:1x:16:C:H4'	55:1x:60:U:H1'	1.92	0.51
56:1y:8:4SU:H4'	56:1y:48:C:H4'	1.93	0.51
25:23:12:PRO:HB2	25:23:20:LYS:HG2	1.91	0.51
32:2a:1157:A:H5'	32:2a:1158:C:C6	2.45	0.51
38:2g:138:LYS:NZ	38:2g:142:GLU:OE1	2.42	0.51
1:1A:55:G:O2'	1:1A:127:A:N1	2.37	0.51
1:1A:218:A:C2	1:1A:235:U:H4'	2.45	0.51
1:1A:2286:A:H4'	1:1A:2287:A:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2543:G:H21	1:1A:2646:C:H5"	1.76	0.51
6:1G:15:VAL:HG21	6:1G:176:LEU:HD23	1.93	0.51
10:1O:89:ASN:H	10:1O:89:ASN:ND2	2.09	0.51
35:1d:119:GLN:HG2	35:1d:123:HIS:CD2	2.44	0.51
1:2A:271(D):G:H2'	1:2A:271(E):U:C6	2.45	0.51
1:2A:288:C:H2'	1:2A:289:A:H8	1.75	0.51
1:2A:1005:C:H2'	1:2A:1006:C:C6	2.46	0.51
1:2A:1394:U:H4'	1:2A:1603:A:H4'	1.91	0.51
1:2A:1815:A:P	3:2D:54:ARG:HH22	2.33	0.51
1:2A:2142:C:N4	1:2A:2148:G:O6	2.43	0.51
4:2E:52:LEU:HB3	4:2E:76:ARG:HD3	1.92	0.51
6:2G:51:ARG:HE	6:2G:51:ARG:H	1.57	0.51
7:2H:116:GLU:OE2	7:2H:117:PRO:HD2	2.10	0.51
15:2T:30:VAL:HG22	15:2T:86:ILE:HG12	1.91	0.51
28:26:10:LEU:HB2	28:26:52:VAL:HG13	1.92	0.51
32:2a:921:U:O2	36:2e:19:MET:HB2	2.10	0.51
32:2a:1092:A:H2'	32:2a:1093:A:C8	2.45	0.51
32:2a:1138:G:C5	32:2a:1140:C:H1'	2.44	0.51
32:2a:1202:G:N2	45:2n:46:GLU:OE2	2.34	0.51
32:2a:1272:G:N2	32:2a:1273:G:C5	2.78	0.51
32:2a:1469:G:H2'	32:2a:1470:G:C8	2.45	0.51
33:2b:158:LEU:HG	33:2b:182:ILE:HD11	1.92	0.51
38:2g:133:GLY:HA2	38:2g:136:LYS:HB2	1.93	0.51
10:1O:68:GLU:HB3	10:1O:78:ARG:HB2	1.91	0.51
15:1T:118:ARG:HG2	32:1a:1442(A):G:C8	2.45	0.51
21:1Z:45:ASP:CG	21:1Z:49:ARG:HE	2.19	0.51
32:1a:193:C:H2'	32:1a:194:C:H6	1.75	0.51
35:1d:57:ARG:HD3	35:1d:205:GLU:HB3	1.92	0.51
38:1g:46:ALA:O	38:1g:50:ILE:HG22	2.10	0.51
45:1n:23:ARG:HD2	45:1n:28:GLY:O	2.11	0.51
1:2A:443:A:H1'	1:2A:1201:C:O4'	2.10	0.51
1:2A:652(C):G:N2	1:2A:653:A:H1'	2.25	0.51
1:2A:908:C:OP1	12:2Q:22:LYS:HB3	2.09	0.51
1:2A:1809:A:OP1	61:2A:3971:HOH:O	2.19	0.51
1:2A:2161:C:H2'	1:2A:2162:G:O4'	2.10	0.51
1:2A:2252:G:H2'	1:2A:2253:G:O4'	2.10	0.51
23:21:49:VAL:HG12	23:21:51:VAL:HG23	1.91	0.51
32:2a:737:A:H2'	32:2a:738:C:C6	2.45	0.51
33:2b:166:ASP:HB3	33:2b:169:LYS:HB3	1.92	0.51
36:2e:6:PHE:CZ	36:2e:66:MET:HE2	2.45	0.51
40:2i:125:TYR:HD2	40:2i:126:SER:N	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2032:G:OP2	1:1A:2454:G:O2'	2.26	0.51
3:1D:275:LYS:HG3	3:1D:276:LYS:HB2	1.93	0.51
11:1P:95:VAL:HG13	11:1P:125:VAL:HA	1.93	0.51
15:1T:60:THR:HG22	15:1T:77:PRO:HA	1.92	0.51
26:14:53:GLU:HB2	26:14:55:ARG:O	2.11	0.51
26:14:60:GLN:OE1	26:14:60:GLN:N	2.43	0.51
32:1a:1277:C:O2'	32:1a:1279:A:H8	1.94	0.51
54:1w:13:C:H2'	54:1w:14:A:H5"	1.91	0.51
1:2A:792:G:O6	61:2A:3937:HOH:O	2.13	0.51
1:2A:994:C:O2'	1:2A:996:A:OP1	2.23	0.51
1:2A:1038:C:N4	1:2A:1117:G:H1	2.09	0.51
1:2A:1779:U:OP2	1:2A:1784:A:N6	2.34	0.51
1:2A:1803:A:O2'	3:2D:259:THR:HG21	2.10	0.51
1:2A:1932:A:H2'	1:2A:1933:G:O4'	2.10	0.51
4:2E:167:VAL:HG22	4:2E:170:LEU:HD11	1.92	0.51
6:2G:165:THR:OG1	6:2G:167:GLU:OE1	2.27	0.51
32:2a:1064:G:OP1	32:2a:1386:G:H4'	2.08	0.51
37:2f:14:LEU:HD22	37:2f:18:GLN:HB3	1.92	0.51
38:2g:60:LYS:HA	38:2g:63:LYS:HD2	1.93	0.51
42:2k:81:ASP:OD1	42:2k:107:SER:OG	2.22	0.51
46:2o:18:PHE:O	46:2o:20:GLY:N	2.43	0.51
1:1A:272(F):C:H2'	1:1A:272(G):C:C6	2.46	0.51
1:1A:1074:G:N1	1:1A:1075:C:H1'	2.26	0.51
1:1A:1178:C:H2'	1:1A:1179:C:H6	1.73	0.51
1:1A:1851:U:H2'	1:1A:1852:C:O4'	2.11	0.51
1:1A:2336:A:H61	22:10:43:THR:CG2	2.24	0.51
61:1A:6011:HOH:O	11:1P:39:LYS:HE3	2.10	0.51
6:1G:179:PRO:HG3	26:14:43:TYR:CZ	2.45	0.51
14:1S:74:ALA:HA	14:1S:110:LEU:HD22	1.92	0.51
22:10:10:THR:HG22	22:10:12:ASN:H	1.76	0.51
32:1a:102:G:O2'	32:1a:151:A:N3	2.37	0.51
32:1a:1071:C:H2'	32:1a:1072:G:H8	1.76	0.51
32:1a:1218:C:H2'	32:1a:1219:U:C6	2.45	0.51
33:1b:24:TRP:CD1	33:1b:24:TRP:H	2.29	0.51
41:1j:57:LYS:HE2	41:1j:60:ARG:NH2	2.25	0.51
1:2A:320:A:O2'	1:2A:322:A:OP2	2.26	0.51
1:2A:652(B):A:N6	1:2A:655:A:O2'	2.44	0.51
1:2A:657:U:H2'	1:2A:658:C:C6	2.45	0.51
5:2F:33:LEU:HD13	5:2F:112:MET:HE2	1.91	0.51
32:2a:1318:A:O2'	50:2s:37:ARG:HB2	2.10	0.51
38:2g:74:GLU:HG2	38:2g:91:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:12:ARG:HD2	39:2h:26:VAL:HG13	1.92	0.51
41:2j:11:PHE:HE1	41:2j:67:THR:HG22	1.74	0.51
47:2p:1:MET:O	47:2p:24:ALA:N	2.38	0.51
51:2t:50:GLU:HG3	51:2t:100:ILE:HD13	1.92	0.51
1:1A:592:G:N7	61:1A:4421:HOH:O	2.34	0.51
1:1A:1309:G:O6	61:1A:4271:HOH:O	2.18	0.51
1:1A:2712:U:O2'	1:1A:2712(A):A:OP2	2.26	0.51
14:1S:10:ARG:O	14:1S:14:VAL:HG13	2.10	0.51
32:1a:731:G:H5'	32:1a:766:A:H4'	1.93	0.51
32:1a:750:G:N3	46:1o:23:GLY:HA3	2.26	0.51
1:2A:97:C:O3'	24:22:2:LYS:HA	2.11	0.51
1:2A:1227:G:OP2	16:2U:16:LYS:NZ	2.37	0.51
1:2A:1263:U:C4	1:2A:1264:G:C6	2.98	0.51
1:2A:2735:G:H2'	1:2A:2736:G:H8	1.74	0.51
6:2G:64:THR:HB	6:2G:94:LEU:HD21	1.92	0.51
23:21:51:VAL:HG12	23:21:53:VAL:HG23	1.91	0.51
32:2a:1144:G:N2	32:2a:1146:A:H62	2.09	0.51
32:2a:1263:C:C4	32:2a:1272:G:O6	2.63	0.51
32:2a:1264:C:H42	32:2a:1271:G:H1	1.58	0.51
32:2a:1305:G:N2	32:2a:1331:G:H1'	2.26	0.51
44:2m:22:ILE:HD12	44:2m:25:ILE:HD13	1.92	0.51
50:2s:40:ILE:HG12	50:2s:71:LEU:HD12	1.92	0.51
1:1A:1012:U:C5	9:1N:28:THR:HG21	2.45	0.51
1:1A:1996:C:H4'	1:1A:1997:G:OP1	2.09	0.51
21:1Z:152:ALA:HB1	21:1Z:163:LEU:HD11	1.93	0.51
32:1a:100:C:H2'	32:1a:101:A:C8	2.46	0.51
32:1a:1376:U:H2'	32:1a:1377:A:C8	2.46	0.51
32:1a:1525:G:OP1	42:1k:120:ARG:NH2	2.44	0.51
41:1j:39:PRO:HA	41:1j:70:ARG:HD3	1.92	0.51
1:2A:656:G:H2'	1:2A:657:U:O4'	2.10	0.51
1:2A:674:G:O2'	5:2F:67:GLN:NE2	2.42	0.51
1:2A:881:G:H2'	1:2A:882:G:O4'	2.09	0.51
1:2A:1420:U:O2'	1:2A:1421:G:H5'	2.11	0.51
1:2A:2037:G:H2'	1:2A:2038:G:C8	2.46	0.51
18:2W:18:ARG:HG3	18:2W:76:VAL:HB	1.93	0.51
19:2X:35:THR:HG22	19:2X:37:THR:H	1.75	0.51
23:21:76:ARG:HB2	23:21:97:LEU:HD13	1.93	0.51
27:25:59:GLU:OE2	27:25:60:VAL:N	2.44	0.51
32:2a:163:C:H2'	32:2a:164:U:H6	1.76	0.51
32:2a:243:A:H4'	32:2a:244:U:O5'	2.10	0.51
32:2a:1456:G:N1	51:2t:51:GLU:OE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:6:ILE:O	39:2h:10:LEU:HG	2.10	0.51
3:1D:125:ILE:HB	37:1f:81:ILE:HD11	1.91	0.51
3:1D:180:GLY:HA3	3:1D:275:LYS:HD3	1.92	0.51
8:1I:127:VAL:HA	8:1I:140:LEU:O	2.09	0.51
32:1a:510:A:OP2	35:1d:49:ARG:NH1	2.44	0.51
32:1a:569:C:OP1	61:1a:1922:HOH:O	2.18	0.51
32:1a:1095:U:H2'	32:1a:1096:C:C6	2.45	0.51
38:1g:89:MET:SD	38:1g:155:ARG:HB2	2.50	0.51
1:2A:27:G:N2	1:2A:512:G:H1'	2.25	0.51
1:2A:477:A:H2'	1:2A:478:A:C8	2.45	0.51
1:2A:1639:U:OP1	1:2A:2709:G:N2	2.31	0.51
1:2A:1651:G:H2'	1:2A:1652:A:O4'	2.10	0.51
1:2A:1714:G:H2'	1:2A:1717:G:C8	2.45	0.51
21:2Z:55:HIS:HE1	21:2Z:135:GLU:HB2	1.75	0.51
26:24:58:ARG:HD2	50:2s:68:GLY:HA3	1.93	0.51
32:2a:119:A:H4'	32:2a:120:A:C8	2.45	0.51
32:2a:1004:A:N6	32:2a:1037:C:O2	2.38	0.51
32:2a:1446:U:O4	61:2a:1922:HOH:O	2.18	0.51
34:2c:17:ASP:HB3	34:2c:21:ARG:HH12	1.76	0.51
56:2y:55:PSU:HN1	56:2y:57:G:C5'	2.21	0.51
1:1A:2134:A:N3	1:1A:2159:G:O2'	2.34	0.51
1:1A:2590:A:H2'	1:1A:2591:C:C6	2.45	0.51
32:1a:516:PSU:O2'	32:1a:519:C:N3	2.37	0.51
35:1d:23:GLY:HA3	35:1d:112:VAL:HG12	1.93	0.51
1:2A:2787:C:H1'	4:2E:62:PRO:HG3	1.92	0.51
4:2E:70:ALA:O	4:2E:72:VAL:N	2.44	0.51
21:2Z:77:ASP:CG	21:2Z:80:ARG:HH11	2.19	0.51
32:2a:1149:C:O2'	32:2a:1280:A:N1	2.35	0.51
33:2b:15:VAL:HG12	33:2b:209:ARG:HB3	1.92	0.51
40:2i:8:GLY:N	40:2i:15:ALA:O	2.43	0.51
56:2y:40:C:H2'	56:2y:41:C:C6	2.46	0.51
1:1A:479:A:N3	1:1A:481:G:H5"	2.26	0.51
1:1A:534:U:H2'	1:1A:535:C:C6	2.46	0.51
1:1A:1864:U:OP1	1:1A:2410:G:O2'	2.21	0.51
5:1F:53:THR:CG2	5:1F:55:GLY:H	2.23	0.51
7:1H:20:ALA:HB1	7:1H:21:PRO:HD2	1.92	0.51
19:1X:1:MET:HE1	24:12:26:ARG:NH2	2.26	0.51
19:1X:27:THR:HA	19:1X:79:ALA:O	2.10	0.51
19:1X:61:GLY:HA3	19:1X:73:ARG:O	2.11	0.51
32:1a:161:A:H2'	32:1a:162:A:O4'	2.11	0.51
32:1a:544:G:OP1	35:1d:59:ARG:NH2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:966:M2G:O6	61:1a:1924:HOH:O	2.19	0.51
33:1b:12:GLU:HB2	33:1b:213:LEU:HD21	1.93	0.51
1:2A:1702:G:H2'	1:2A:1703:G:O4'	2.11	0.51
1:2A:2788:C:H2'	1:2A:2789:C:H5	1.75	0.51
1:2A:2824:C:H2'	1:2A:2825:C:O4'	2.11	0.51
5:2F:11:VAL:HG13	5:2F:125:LEU:HB2	1.92	0.51
6:2G:59:GLU:CD	6:2G:153:ARG:HH21	2.19	0.51
21:2Z:99:TYR:HA	21:2Z:124:ILE:O	2.10	0.51
26:24:53:GLU:OE1	26:24:53:GLU:N	2.44	0.51
33:2b:126:GLU:CD	33:2b:126:GLU:H	2.19	0.51
39:2h:17:THR:HA	39:2h:65:TYR:HE1	1.76	0.51
40:2i:80:GLY:HA2	40:2i:83:ARG:HB2	1.92	0.51
41:2j:30:SER:O	41:2j:81:THR:OG1	2.18	0.51
1:1A:226:G:N2	1:1A:228:A:H62	2.09	0.50
1:1A:385:C:O2	11:1P:71:VAL:HG21	2.11	0.50
1:1A:911:A:N6	12:1Q:11:LYS:O	2.41	0.50
1:1A:2074:U:H2'	1:1A:2075:U:C6	2.46	0.50
27:15:33:CYS:HB2	27:15:40:LYS:HD3	1.92	0.50
33:1b:16:HIS:HD2	33:1b:204:ASN:N	2.09	0.50
35:1d:173:TRP:CD1	35:1d:173:TRP:H	2.29	0.50
39:1h:110:ALA:HB3	39:1h:121:ASP:HB3	1.92	0.50
44:1m:123:ALA:HB2	54:1w:39:PSU:H1'	1.93	0.50
1:2A:893:C:H2'	1:2A:894:C:C5	2.46	0.50
1:2A:2635:C:H5"	4:2E:78:LEU:O	2.11	0.50
6:2G:19:LEU:HD22	6:2G:32:PRO:HD2	1.93	0.50
18:2W:46:PHE:O	18:2W:50:VAL:HG23	2.10	0.50
32:2a:434:U:H2'	32:2a:435:C:C6	2.47	0.50
32:2a:624:C:H2'	32:2a:625:G:H8	1.76	0.50
37:2f:13:ASN:ND2	37:2f:55:ASP:OD2	2.43	0.50
48:2q:29:HIS:N	48:2q:34:LYS:O	2.43	0.50
1:1A:329:G:H8	1:1A:329:G:OP1	1.94	0.50
1:1A:453:C:O2	1:1A:457:A:O2'	2.26	0.50
1:1A:639:U:H2'	1:1A:640:C:C6	2.46	0.50
1:1A:831:G:O2'	11:1P:38:GLN:OE1	2.25	0.50
1:1A:1045:A:OP1	1:1A:1045:A:H4'	2.09	0.50
13:1R:38:VAL:HG12	13:1R:42:LYS:HE3	1.92	0.50
32:1a:1125:U:H4'	41:1j:5:ARG:HH22	1.75	0.50
41:1j:69:ASN:O	41:1j:70:ARG:NH1	2.38	0.50
1:2A:764:A:N1	1:2A:1789:A:O2'	2.40	0.50
1:2A:995:C:OP2	16:2U:54:LYS:NZ	2.44	0.50
1:2A:1112:G:H2'	1:2A:1113:U:O4'	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1668:A:O2'	1:2A:1674:G:N7	2.34	0.50
21:2Z:171:ILE:HG13	21:2Z:172:ALA:N	2.26	0.50
32:2a:36:C:H2'	32:2a:37:U:O4'	2.11	0.50
32:2a:1003:G:H2'	32:2a:1004:A:O4'	2.11	0.50
32:2a:1128:C:O2'	32:2a:1147:C:N3	2.34	0.50
32:2a:1352:C:OP1	52:2u:3:LYS:NZ	2.39	0.50
36:2e:20:GLN:HE21	36:2e:25:ARG:CZ	2.25	0.50
40:2i:48:GLU:HA	40:2i:51:ARG:HD2	1.92	0.50
1:1A:1151:G:H2'	1:1A:1152:C:O4'	2.12	0.50
1:1A:2030:A:H4'	1:1A:2031:A:C8	2.46	0.50
8:1I:4:ILE:HG12	8:1I:18:VAL:HG22	1.93	0.50
13:1R:72:ASP:HB3	13:1R:75:LEU:HB3	1.94	0.50
21:1Z:132:ASN:HD22	21:1Z:160:GLY:HA3	1.77	0.50
32:1a:735:C:H2'	32:1a:736:C:C6	2.47	0.50
32:1a:1388:C:H2'	32:1a:1389:C:H6	1.75	0.50
38:1g:37:ASN:ND2	40:1i:40:LEU:HA	2.23	0.50
56:1y:27:G:H2'	56:1y:28:G:C8	2.45	0.50
1:2A:265:A:H1'	1:2A:266:G:O4'	2.11	0.50
1:2A:566:U:H2'	1:2A:567:A:O4'	2.12	0.50
1:2A:2336:A:H61	22:20:43:THR:CG2	2.23	0.50
1:2A:2758:A:C2	1:2A:2759:G:H1'	2.46	0.50
13:2R:24:GLN:HE21	13:2R:44:LEU:HG	1.76	0.50
15:2T:65:LYS:HE3	15:2T:67:SER:HB2	1.93	0.50
21:2Z:92:SER:O	21:2Z:94:GLU:N	2.45	0.50
24:22:38:GLN:HG3	24:22:43:GLN:HB2	1.93	0.50
32:2a:1049:U:O4	45:2n:3:ARG:NH1	2.43	0.50
38:2g:28:ASN:HA	38:2g:31:MET:HE2	1.93	0.50
52:2u:3:LYS:HA	52:2u:10:ARG:HG3	1.92	0.50
1:1A:121:G:H4'	1:1A:149:A:H5'	1.93	0.50
1:1A:715:G:C2	46:1o:56:LEU:HD21	2.45	0.50
1:1A:957:A:N1	1:1A:2458:G:H4'	2.26	0.50
1:1A:1670:C:OP2	61:1A:4233:HOH:O	2.20	0.50
1:1A:1796:U:H2'	1:1A:1797:C:C6	2.45	0.50
1:1A:2136:C:C2	1:1A:2155:G:N2	2.80	0.50
1:1A:2145:C:H3'	1:1A:2146:C:H6	1.77	0.50
2:1B:31:C:H4'	6:1G:29:TRP:CH2	2.47	0.50
2:1B:43:C:O2	6:1G:95:ARG:NH2	2.40	0.50
32:1a:1027:C:C4	32:1a:1034:G:N1	2.79	0.50
42:1k:85:ARG:NH2	42:1k:111:ASP:OD2	2.44	0.50
46:1o:25:THR:HG21	46:1o:70:LEU:HB2	1.93	0.50
1:2A:2010:G:H5"	18:2W:42:ARG:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2166:G:H3'	1:2A:2167:U:C5'	2.41	0.50
7:2H:44:VAL:O	7:2H:50:VAL:HA	2.12	0.50
21:2Z:33:LEU:HD21	21:2Z:90:VAL:HG21	1.92	0.50
21:2Z:45:ASP:OD1	21:2Z:49:ARG:NH1	2.44	0.50
23:21:50:ARG:HG2	23:21:59:THR:HG22	1.93	0.50
24:22:24:LEU:HD23	24:22:60:LEU:HD21	1.93	0.50
34:2c:127:ARG:NH2	34:2c:192:THR:OG1	2.44	0.50
36:2e:76:ILE:HB	36:2e:142:LEU:HD11	1.93	0.50
1:1A:119:A:H4'	1:1A:120:U:OP1	2.10	0.50
1:1A:826:U:H4'	11:1P:55:ARG:HB3	1.94	0.50
1:1A:1292:U:H2'	1:1A:1293:C:C6	2.47	0.50
1:1A:2648:C:H2'	1:1A:2649:U:C6	2.47	0.50
20:1Y:8:LYS:HD3	20:1Y:97:ARG:NH1	2.26	0.50
30:18:26:LYS:HG2	30:18:46:ARG:O	2.12	0.50
32:1a:977:A:H1'	32:1a:982:U:O4	2.11	0.50
32:1a:1002:G:H3'	32:1a:1003:G:C4'	2.42	0.50
32:1a:1117:G:O3'	40:1i:104:ARG:NH1	2.45	0.50
1:2A:2504:U:OP2	61:2A:3973:HOH:O	2.20	0.50
1:2A:2820:A:P	13:2R:2:ARG:HH22	2.35	0.50
9:2N:99:LEU:O	9:2N:103:VAL:HG23	2.11	0.50
20:2Y:13:VAL:HG12	20:2Y:74:PRO:HA	1.93	0.50
21:2Z:91:LEU:HB3	21:2Z:130:PRO:HB3	1.92	0.50
32:2a:1299:A:H2'	32:2a:1299:A:N3	2.27	0.50
35:2d:81:GLU:O	35:2d:85:LYS:N	2.40	0.50
35:2d:180:GLY:O	35:2d:182:LYS:HG3	2.11	0.50
43:2l:71:PRO:O	43:2l:102:ARG:NH1	2.43	0.50
1:1A:1094:U:H2'	1:1A:1095:A:C8	2.46	0.50
1:1A:1843:C:H5'	3:1D:253:GLN:OE1	2.11	0.50
6:1G:179:PRO:HG3	26:14:43:TYR:OH	2.12	0.50
32:1a:344:A:OP2	32:1a:345:C:N4	2.43	0.50
33:1b:118:LEU:HB3	33:1b:142:LEU:HD12	1.94	0.50
37:1f:55:ASP:HB2	37:1f:86:ARG:HH12	1.76	0.50
1:2A:271(E):U:H2'	1:2A:271(F):C:C6	2.46	0.50
1:2A:621:A:H3'	1:2A:622:G:H8	1.77	0.50
1:2A:796:C:H2'	1:2A:797:C:C6	2.46	0.50
1:2A:927:G:H2'	1:2A:928:G:O4'	2.11	0.50
1:2A:1579:A:H2'	1:2A:1580:A:C8	2.47	0.50
32:2a:316:G:OP2	32:2a:351:G:O2'	2.26	0.50
32:2a:504:C:H2'	32:2a:511:C:H5	1.75	0.50
32:2a:1009:G:H2'	32:2a:1010:G:H5'	1.94	0.50
32:2a:1119:C:H2'	32:2a:1120:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:2g:14:PRO:HB3	38:2g:19:GLY:O	2.11	0.50
41:2j:57:LYS:O	41:2j:60:ARG:NE	2.44	0.50
1:1A:1379:A:H4'	1:1A:1380:G:OP2	2.11	0.50
1:1A:2142:C:O2	1:1A:2149:G:N1	2.32	0.50
5:1F:184:TYR:O	5:1F:188:ARG:HG3	2.12	0.50
8:1I:46:ALA:O	8:1I:50:ARG:HB3	2.12	0.50
11:1P:138:LEU:HD23	11:1P:145:PRO:HB3	1.92	0.50
26:14:50:VAL:HG21	44:1m:64:TRP:C	2.37	0.50
32:1a:21:G:H2'	32:1a:22:G:C8	2.47	0.50
32:1a:557:G:OP1	61:1a:1925:HOH:O	2.19	0.50
33:1b:179:LYS:HA	39:1h:72:PRO:HG3	1.92	0.50
34:1c:71:ALA:O	34:1c:73:PRO:HD3	2.11	0.50
1:2A:207:A:H2'	1:2A:208:C:O4'	2.12	0.50
1:2A:478:A:N1	1:2A:500:G:H4'	2.25	0.50
1:2A:902:C:H2'	1:2A:903:C:C6	2.47	0.50
1:2A:1713:U:H2'	1:2A:1714:G:H8	1.77	0.50
1:2A:2680:C:H1'	4:2E:187:ALA:HB1	1.94	0.50
61:2A:4095:HOH:O	5:2F:68:LYS:HE2	2.11	0.50
2:2B:14:U:H1'	2:2B:108:U:O2'	2.12	0.50
7:2H:144:VAL:O	7:2H:148:ILE:HG13	2.12	0.50
12:2Q:20:ALA:HB2	21:2Z:79:ARG:HE	1.77	0.50
24:22:29:LYS:HG2	24:22:57:ILE:HD13	1.93	0.50
33:2b:98:LEU:HG	33:2b:101:MET:HE3	1.92	0.50
51:2t:48:LYS:O	51:2t:52:ALA:N	2.42	0.50
1:1A:1641:A:H2'	1:1A:1642:G:O4'	2.12	0.50
1:1A:2639:A:O3'	9:1N:97:ARG:NH2	2.38	0.50
32:1a:339:C:H2'	32:1a:340:U:H6	1.77	0.50
33:1b:19:HIS:CD2	33:1b:20:GLU:HG3	2.47	0.50
44:1m:23:TYR:CE2	44:1m:71:ARG:HG3	2.47	0.50
56:1y:15:G:O6	56:1y:48:C:O2	2.29	0.50
1:2A:568:U:O4	61:2A:3962:HOH:O	2.18	0.50
1:2A:2784:C:H1'	4:2E:37:ARG:HH12	1.77	0.50
2:2B:21:G:H2'	2:2B:22:U:O4'	2.12	0.50
7:2H:8:PRO:O	7:2H:10:PRO:HD3	2.12	0.50
23:21:23:LYS:HB2	56:2y:74:C:H4'	1.94	0.50
32:2a:489:C:H2'	32:2a:490:G:H8	1.77	0.50
46:2o:37:ASN:O	46:2o:41:GLU:HG2	2.11	0.50
47:2p:17:TYR:HE2	47:2p:41:PRO:HG3	1.77	0.50
1:1A:414:C:H2'	1:1A:415:A:C8	2.47	0.50
1:1A:443:A:H1'	1:1A:1201:C:O4'	2.11	0.50
1:1A:484:C:H2'	1:1A:485:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1T:118:ARG:HA	15:1T:121:ILE:HD12	1.93	0.50
35:1d:6:GLY:O	35:1d:115:ARG:NH1	2.45	0.50
36:1e:50:GLU:HB2	36:1e:53:LEU:HD13	1.93	0.50
52:1u:3:LYS:HB3	52:1u:14:TRP:CG	2.46	0.50
54:1w:70:G:H8	54:1w:70:G:O5'	1.95	0.50
1:2A:2557:G:H2'	1:2A:2558:C:C6	2.47	0.50
12:2Q:110:THR:HB	12:2Q:113:GLN:H	1.77	0.50
12:2Q:137:TYR:CE1	21:2Z:83:PRO:HG3	2.47	0.50
28:26:9:LEU:HD11	28:26:34:LEU:HD12	1.92	0.50
32:2a:216:G:H2'	32:2a:217:C:C6	2.46	0.50
32:2a:382:A:H2'	32:2a:383:A:C8	2.46	0.50
32:2a:635:G:H2'	32:2a:636:U:O4'	2.12	0.50
32:2a:1118:C:OP1	40:2i:104:ARG:NH1	2.44	0.50
32:2a:1128:C:O2'	32:2a:1129:C:OP1	2.30	0.50
32:2a:1256:A:H61	32:2a:1278:U:H1'	1.77	0.50
1:1A:2183:C:O2'	1:1A:2184:G:OP1	2.29	0.49
1:1A:2347:C:H2'	1:1A:2348:U:C6	2.47	0.49
16:1U:76:TYR:CE2	16:1U:80:ILE:HG13	2.47	0.49
28:16:18:ARG:HD2	28:16:42:TRP:CD1	2.47	0.49
28:16:26:ASN:HD21	28:16:28:ARG:HH21	1.60	0.49
32:1a:103:C:O2'	32:1a:172:A:N1	2.42	0.49
32:1a:1040:U:H2'	32:1a:1041:A:H8	1.77	0.49
1:2A:1243:G:O2'	11:2P:7:ARG:NH2	2.45	0.49
1:2A:2232:U:P	23:21:40:ARG:HH12	2.35	0.49
3:2D:16:MET:HG3	3:2D:206:LEU:O	2.12	0.49
3:2D:168:ARG:HA	3:2D:173:VAL:HA	1.93	0.49
10:2O:63:VAL:HG11	10:2O:85:VAL:HG23	1.94	0.49
13:2R:51:LEU:HD22	13:2R:66:VAL:HG13	1.94	0.49
21:2Z:23:LYS:HB3	21:2Z:38:TYR:CD1	2.47	0.49
32:2a:236:G:O2'	48:2q:4:LYS:NZ	2.45	0.49
32:2a:499:A:H4'	32:2a:500:G:OP1	2.12	0.49
32:2a:811:C:H4'	32:2a:900:A:N6	2.26	0.49
32:2a:1124:G:H4'	41:2j:38:ILE:HD13	1.94	0.49
34:2c:65:ALA:HA	34:2c:100:ALA:HB3	1.93	0.49
37:2f:50:TYR:OH	49:2r:74:ARG:O	2.29	0.49
47:2p:28:ARG:NH1	47:2p:29:ASP:OD1	2.45	0.49
1:1A:518:G:H4'	18:1W:18:ARG:NE	2.26	0.49
1:1A:647:G:N3	1:1A:2350:C:O2'	2.45	0.49
1:1A:1062:G:H1'	1:1A:1088:A:C8	2.47	0.49
1:1A:1278:A:OP1	13:1R:36:THR:HG23	2.11	0.49
32:1a:134:A:N1	47:1p:25:ARG:NH1	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:270:A:H2'	32:1a:271:C:C6	2.47	0.49
32:1a:664:G:N2	32:1a:741:G:H1	2.06	0.49
32:1a:708:C:H2'	32:1a:709:G:H8	1.75	0.49
32:1a:950:U:H2'	32:1a:951:G:H8	1.77	0.49
32:1a:1027:C:N4	32:1a:1034:G:C6	2.80	0.49
44:1m:14:ARG:NH2	44:1m:16:ASP:OD2	2.45	0.49
1:2A:7:G:H2'	1:2A:8:A:C8	2.47	0.49
1:2A:329:G:H8	1:2A:329:G:OP1	1.95	0.49
1:2A:2168:G:H8	1:2A:2170:A:C8	2.30	0.49
1:2A:2488:A:N7	61:2A:4078:HOH:O	2.34	0.49
12:2Q:45:GLN:N	12:2Q:45:GLN:OE1	2.44	0.49
12:2Q:109:VAL:HG22	12:2Q:113:GLN:OE1	2.12	0.49
32:2a:693:G:C6	32:2a:694:A:C6	3.00	0.49
32:2a:792:A:H4'	32:2a:793:U:H5"	1.94	0.49
32:2a:1053:G:N7	32:2a:1200:C:H5"	2.27	0.49
32:2a:1161:C:H2'	32:2a:1162:C:H6	1.77	0.49
46:2o:74:ASP:HB3	46:2o:77:ARG:HB2	1.93	0.49
1:1A:674:G:O2'	5:1F:74:ARG:HD3	2.12	0.49
1:1A:2040:C:H2'	1:1A:2041:U:O4'	2.12	0.49
1:1A:2206:G:H3'	1:1A:2207:G:H8	1.75	0.49
9:1N:99:LEU:HD22	9:1N:103:VAL:HG23	1.95	0.49
13:1R:50:HIS:ND1	61:1R:301:HOH:O	2.21	0.49
16:1U:76:TYR:CZ	16:1U:80:ILE:HG13	2.46	0.49
23:11:23:LYS:HB2	56:1y:74:C:H4'	1.95	0.49
33:1b:84:GLU:OE1	33:1b:87:ARG:NH1	2.45	0.49
38:1g:80:VAL:HG12	38:1g:85:TYR:HE2	1.77	0.49
41:1j:35:SER:N	41:1j:73:ASP:O	2.33	0.49
16:2U:69:CYS:HB3	16:2U:74:LEU:HD13	1.94	0.49
32:2a:165:C:H2'	32:2a:166:G:H8	1.75	0.49
32:2a:1212:U:H5'	32:2a:1213:A:C8	2.47	0.49
33:2b:172:ILE:O	33:2b:176:GLU:N	2.32	0.49
38:2g:78:ARG:HB2	38:2g:87:VAL:HG21	1.95	0.49
1:1A:840:C:P	1:1A:932:G:H22	2.35	0.49
1:1A:1467:C:OP2	1:1A:1547:C:N4	2.37	0.49
11:1P:38:GLN:O	11:1P:39:LYS:HB3	2.12	0.49
14:1S:38:GLN:HB2	14:1S:47:THR:CG2	2.42	0.49
25:13:4:LEU:O	25:13:36:VAL:HA	2.12	0.49
32:1a:289:G:OP2	61:1a:1929:HOH:O	2.20	0.49
32:1a:611:A:H61	32:1a:629:G:H1	1.60	0.49
32:1a:1037:C:H2'	32:1a:1038:C:C6	2.48	0.49
32:1a:1246:C:N4	32:1a:1291:G:H1	2.07	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:95:GLN:HE22	33:1b:147:LYS:NZ	2.10	0.49
48:1q:11:VAL:HA	48:1q:85:VAL:HG13	1.94	0.49
1:2A:652(A):A:H3'	1:2A:652(B):A:C5'	2.39	0.49
1:2A:1012:U:C5	9:2N:28:THR:HG21	2.47	0.49
1:2A:1187:G:H5'	17:2V:81:TYR:CE1	2.47	0.49
1:2A:1448:G:H2'	1:2A:1449:A:C8	2.48	0.49
1:2A:2849:U:H4'	1:2A:2868:A:C2	2.48	0.49
7:2H:102:ALA:HA	7:2H:117:PRO:HD3	1.94	0.49
32:2a:165:C:H2'	32:2a:166:G:C8	2.46	0.49
33:2b:82:ARG:HG3	33:2b:83:MET:HE2	1.94	0.49
1:1A:444:C:H4'	5:1F:49:ALA:HB2	1.95	0.49
1:1A:817:C:OP2	61:1A:4281:HOH:O	2.20	0.49
1:1A:2124:G:H3'	1:1A:2125:G:H8	1.77	0.49
1:1A:2155:G:H2'	1:1A:2155:G:N3	2.27	0.49
1:1A:2312:U:H5'	6:1G:88:ILE:HD11	1.93	0.49
11:1P:39:LYS:HB2	11:1P:45:LEU:CD1	2.40	0.49
32:1a:221:C:H2'	32:1a:222:U:H6	1.78	0.49
32:1a:839:U:H3'	32:1a:840:C:H5'	1.94	0.49
33:1b:73:THR:O	33:1b:78:GLN:NE2	2.40	0.49
35:1d:18:LYS:HG3	35:1d:33:MET:HB3	1.93	0.49
38:1g:78:ARG:NH2	38:1g:156:TRP:HB3	2.27	0.49
39:1h:116:LYS:HD2	39:1h:129:VAL:HG11	1.95	0.49
40:1i:8:GLY:HA3	40:1i:76:ALA:O	2.13	0.49
54:1w:20:U:OP1	54:1w:20:U:H4'	2.12	0.49
1:2A:121:G:H4'	1:2A:149:A:H5'	1.93	0.49
1:2A:329:G:N7	20:2Y:71:LYS:NZ	2.61	0.49
1:2A:370:G:OP1	1:2A:403:U:N3	2.37	0.49
1:2A:2070:G:H2'	1:2A:2071:A:C8	2.47	0.49
3:2D:182:LEU:HB2	3:2D:272:ALA:HB3	1.94	0.49
11:2P:44:GLY:N	61:2P:304:HOH:O	2.43	0.49
32:2a:1065:U:H3	32:2a:1109:C:H5"	1.76	0.49
32:2a:1073:U:H2'	32:2a:1074:G:H8	1.78	0.49
40:2i:23:ASN:OD1	40:2i:25:LYS:HG2	2.13	0.49
54:2w:39:PSU:H2'	54:2w:40:C:H6	1.76	0.49
1:1A:226:G:H21	1:1A:228:A:H62	1.58	0.49
1:1A:2377:A:H2'	1:1A:2378:A:C8	2.48	0.49
21:1Z:52:SER:OG	21:1Z:53:ILE:N	2.45	0.49
21:1Z:72:ARG:NH2	21:1Z:97:GLU:O	2.46	0.49
26:14:56:VAL:O	26:14:60:GLN:HB2	2.13	0.49
32:1a:776:G:N1	32:1a:802:A:OP1	2.44	0.49
33:1b:72:GLY:HA3	33:1b:81:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:101:MET:HA	33:1b:108:ILE:HG13	1.94	0.49
35:1d:15:GLU:OE2	35:1d:66:ARG:NH1	2.44	0.49
56:1y:6:G:O6	56:1y:7:A:N6	2.46	0.49
1:2A:955:C:OP2	12:2Q:14:ARG:HG3	2.12	0.49
1:2A:2355:C:H4'	22:20:24:LYS:HG3	1.95	0.49
3:2D:97:TYR:C	3:2D:99:ASP:H	2.20	0.49
26:24:14:ILE:O	26:24:22:ILE:N	2.46	0.49
32:2a:527:7MG:HM71	43:2l:92:0TD:H3	1.95	0.49
32:2a:716:A:N3	42:2k:118:GLY:HA2	2.27	0.49
32:2a:1125:U:OP1	41:2j:35:SER:OG	2.26	0.49
32:2a:1187:G:OP1	40:2i:113:LYS:NZ	2.45	0.49
51:2t:86:ARG:O	51:2t:90:GLN:HB2	2.12	0.49
1:1A:86:C:H4'	1:1A:104:U:H1'	1.94	0.49
1:1A:588:U:OP2	61:1A:4286:HOH:O	2.20	0.49
1:1A:1065:U:H5"	1:1A:1066:U:OP2	2.13	0.49
1:1A:1721:G:H2'	1:1A:1722:A:H2'	1.94	0.49
7:1H:40:GLU:OE1	7:1H:60:ARG:NE	2.44	0.49
32:1a:767:A:H2'	32:1a:768:A:O4'	2.13	0.49
32:1a:1511:G:H2'	32:1a:1512:U:O4'	2.12	0.49
38:1g:27:ILE:HD13	38:1g:40:ALA:HA	1.94	0.49
39:1h:23:SER:OG	39:1h:24:THR:N	2.45	0.49
45:1n:4:LYS:O	45:1n:7:ILE:HG22	2.13	0.49
1:2A:106:C:H1'	20:2Y:1:MET:HE3	1.94	0.49
1:2A:271(Q):G:H5'	8:2I:42:SER:OG	2.12	0.49
1:2A:538:G:H2'	1:2A:539:G:H8	1.77	0.49
1:2A:996:A:OP2	16:2U:93:LYS:NZ	2.42	0.49
1:2A:1474:C:H42	1:2A:1517:G:H1	1.59	0.49
1:2A:1882:C:H2'	1:2A:1883:G:O4'	2.13	0.49
1:2A:1923:U:OP1	55:2x:24:U:O2'	2.26	0.49
1:2A:2042:A:OP1	61:2A:3974:HOH:O	2.20	0.49
5:2F:192:LEU:HD13	5:2F:194:MET:HE2	1.95	0.49
19:2X:90:GLU:OE1	19:2X:93:GLU:HB2	2.13	0.49
21:2Z:93:ASP:HB3	21:2Z:131:ARG:HH22	1.78	0.49
27:25:48:GLU:O	27:25:60:VAL:HG11	2.12	0.49
32:2a:338:A:H2	32:2a:351:G:H22	1.60	0.49
32:2a:397:A:N7	32:2a:547:A:O2'	2.40	0.49
32:2a:546:G:OP1	35:2d:73:ARG:HG2	2.11	0.49
32:2a:663:A:O3'	49:2r:64:ARG:NH2	2.40	0.49
32:2a:838:G:H1	32:2a:848:C:N4	2.10	0.49
32:2a:954:G:H2'	32:2a:955:U:O4'	2.12	0.49
1:1A:993:G:OP1	16:1U:50:ARG:HD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2431:U:OP2	61:1A:4288:HOH:O	2.20	0.49
1:1A:2567:G:H2'	1:1A:2568:C:C6	2.48	0.49
1:1A:2627:G:O2'	1:1A:2781:A:N1	2.35	0.49
1:1A:2687:U:H2'	1:1A:2688:U:O4'	2.12	0.49
1:1A:2790:A:H5'	1:1A:2791:C:H5"	1.95	0.49
4:1E:119:ARG:HG2	4:1E:120:TRP:CE2	2.48	0.49
5:1F:157:VAL:HG21	5:1F:181:LEU:HD13	1.95	0.49
6:1G:106:LEU:HA	6:1G:110:ALA:HB3	1.93	0.49
10:1O:64:ARG:HD3	10:1O:79:PHE:CD1	2.48	0.49
30:18:31:HIS:CD2	30:18:32:LEU:HD22	2.48	0.49
32:1a:511:C:P	35:1d:49:ARG:HH22	2.36	0.49
33:1b:100:GLY:N	33:1b:176:GLU:OE2	2.37	0.49
39:1h:4:ASP:OD1	39:1h:7:ALA:N	2.31	0.49
41:1j:5:ARG:N	41:1j:99:LYS:O	2.36	0.49
42:1k:16:SER:O	42:1k:35:PRO:HD3	2.12	0.49
1:2A:127:A:H5"	1:2A:128:C:C6	2.47	0.49
1:2A:476:G:H4'	1:2A:502:A:N1	2.28	0.49
1:2A:658:C:H2'	1:2A:659:C:C6	2.47	0.49
1:2A:1600:C:OP1	19:2X:58:HIS:NE2	2.32	0.49
5:2F:14:PRO:HD2	5:2F:127:GLU:OE2	2.12	0.49
7:2H:124:GLU:OE2	7:2H:132:ARG:HD2	2.12	0.49
31:29:25:VAL:HB	31:29:34:GLN:HB2	1.95	0.49
1:1A:70:G:H5"	1:1A:112:U:O2	2.11	0.49
1:1A:1265:A:H3'	27:15:19:ARG:HH21	1.76	0.49
1:1A:2646:C:OP1	61:1A:4284:HOH:O	2.20	0.49
8:1I:5:LEU:HD11	8:1I:12:LEU:HG	1.95	0.49
11:1P:52:GLU:OE1	11:1P:55:ARG:NH1	2.42	0.49
30:18:33:ASN:HA	30:18:36:LYS:HD2	1.94	0.49
32:1a:1021:G:HO2'	32:1a:1022:G:P	2.34	0.49
50:1s:11:VAL:HG12	50:1s:13:ASP:H	1.78	0.49
1:2A:1477:A:H2'	1:2A:1478:G:O4'	2.12	0.49
1:2A:2663:G:H2'	1:2A:2664:G:O4'	2.13	0.49
1:2A:2880:C:O3'	13:2R:90:ARG:NH1	2.46	0.49
5:2F:34:TRP:CH2	5:2F:38:ARG:HD2	2.48	0.49
6:2G:137:GLU:HG2	6:2G:152:LEU:HD21	1.94	0.49
19:2X:1:MET:HE1	24:22:26:ARG:HH21	1.78	0.49
32:2a:423:G:H3'	32:2a:423:G:N3	2.28	0.49
32:2a:571:U:O4	32:2a:864:A:N6	2.45	0.49
32:2a:936:C:H2'	32:2a:937:A:O4'	2.13	0.49
32:2a:1003:G:H3'	32:2a:1003:G:N3	2.28	0.49
32:2a:1330:U:H4'	44:2m:23:TYR:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:2y:70:G:H2'	56:2y:71:G:H8	1.78	0.49
1:1A:1064:C:N3	1:1A:1074:G:O6	2.45	0.49
1:1A:1069:A:H4'	1:1A:1070:A:H5"	1.95	0.49
1:1A:1166:C:H2'	1:1A:1167:U:C6	2.47	0.49
1:1A:2250:G:N7	61:1A:4425:HOH:O	2.35	0.49
1:1A:2869:G:H2'	1:1A:2870:C:O4'	2.13	0.49
3:1D:108:PRO:HB3	3:1D:143:HIS:CE1	2.48	0.49
21:1Z:53:ILE:HG22	21:1Z:71:VAL:HG12	1.95	0.49
32:1a:450:G:OP2	32:1a:451:A:O2'	2.26	0.49
32:1a:555:C:H2'	32:1a:556:C:C6	2.48	0.49
32:1a:865:A:H2	32:1a:918:A:H4'	1.77	0.49
32:1a:1299:A:O2'	32:1a:1301:U:O4'	2.25	0.49
32:1a:1442:G:H2'	32:1a:1442:G:N3	2.28	0.49
36:1e:11:ILE:HG22	36:1e:12:LEU:HB2	1.93	0.49
41:1j:13:HIS:HB3	41:1j:68:HIS:CD2	2.48	0.49
44:1m:67:GLU:HG3	44:1m:71:ARG:NH2	2.27	0.49
55:1x:20:U:H5"	55:1x:21:A:OP2	2.13	0.49
1:2A:871:U:OP1	12:2Q:5:ARG:HG3	2.13	0.49
1:2A:1274:A:N3	1:2A:1297:C:H1'	2.27	0.49
1:2A:1641:A:H2'	1:2A:1642:G:O4'	2.12	0.49
1:2A:1927:A:H2'	1:2A:1928:A:C8	2.48	0.49
1:2A:2693:A:H2'	1:2A:2694:G:H8	1.77	0.49
3:2D:108:PRO:HD2	3:2D:111:LEU:HD22	1.93	0.49
25:23:8:LEU:HG	25:23:31:LEU:HD23	1.95	0.49
26:24:53:GLU:H	26:24:53:GLU:CD	2.20	0.49
32:2a:8:A:C6	35:2d:209:ARG:HB2	2.48	0.49
32:2a:719:C:N4	49:2r:71:LYS:HE2	2.28	0.49
32:2a:996:A:N1	32:2a:1045:C:O2'	2.46	0.49
32:2a:1089:G:H1	32:2a:1096:C:N4	2.08	0.49
32:2a:1254:C:H2'	32:2a:1255:G:C8	2.48	0.49
37:2f:82:ARG:HB2	37:2f:85:VAL:HG23	1.95	0.49
38:2g:65:ALA:O	38:2g:69:VAL:HG23	2.13	0.49
1:1A:64:A:O3'	19:1X:71:GLY:HA3	2.13	0.48
1:1A:1113:U:H2'	1:1A:1114:G:H8	1.76	0.48
1:1A:1371:G:O6	61:1A:4282:HOH:O	2.20	0.48
1:1A:2059:A:OP2	61:1A:4280:HOH:O	2.19	0.48
1:1A:2093:G:C6	1:1A:2225:A:C8	3.01	0.48
4:1E:12:THR:HG22	4:1E:13:ARG:H	1.78	0.48
6:1G:11:TYR:OH	6:1G:32:PRO:O	2.26	0.48
11:1P:43:GLY:HA3	61:1P:301:HOH:O	2.12	0.48
22:10:18:ALA:HB3	22:10:20:ARG:NH1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:341:C:H2'	32:1a:342:C:C6	2.48	0.48
32:1a:520:A:N1	32:1a:536:C:H1'	2.28	0.48
32:1a:976:G:H5'	32:1a:1358:U:O2'	2.13	0.48
34:1c:6:HIS:CD2	34:1c:8:ILE:H	2.31	0.48
35:1d:112:VAL:HG23	35:1d:161:ASN:HD21	1.78	0.48
53:1v:20:U:H2'	53:1v:21:C:H6	1.78	0.48
1:2A:511:U:H4'	1:2A:1235:G:H4'	1.94	0.48
1:2A:1495:A:H2'	1:2A:1496:A:C8	2.48	0.48
6:2G:33:ARG:HH21	6:2G:162:THR:HG21	1.77	0.48
8:2I:43:ASN:HA	8:2I:46:ALA:HB3	1.95	0.48
32:2a:790:A:N1	32:2a:1497:G:H5"	2.28	0.48
32:2a:1010:G:N2	32:2a:1020:U:O2'	2.46	0.48
32:2a:1194:U:H4'	36:2e:22:GLY:HA2	1.95	0.48
33:2b:167:PRO:HG2	33:2b:192:SER:HB2	1.94	0.48
1:1A:1837:C:OP1	32:1a:784:C:H4'	2.12	0.48
1:1A:2182:G:H2'	1:1A:2183:C:C6	2.48	0.48
5:1F:195:ASP:O	5:1F:199:TRP:N	2.34	0.48
10:1O:2:ILE:HG13	10:1O:8:LEU:HD21	1.96	0.48
26:14:44:THR:O	26:14:46:GLN:N	2.46	0.48
32:1a:285:G:N7	61:1a:1964:HOH:O	2.35	0.48
32:1a:405:U:H5"	32:1a:495:A:H2	1.77	0.48
32:1a:565:U:H3'	32:1a:566:G:H2'	1.96	0.48
32:1a:1025:U:O2	32:1a:1036:G:C6	2.66	0.48
47:1p:2:VAL:O	47:1p:64:ALA:HA	2.14	0.48
1:2A:571:A:O2'	17:2V:78:LYS:HE2	2.13	0.48
1:2A:1199:U:H2'	1:2A:1200:C:C6	2.48	0.48
1:2A:1651:G:OP1	13:2R:37:THR:OG1	2.30	0.48
1:2A:2635:C:O2'	4:2E:80:GLU:OE2	2.31	0.48
1:2A:2819:G:N7	61:2A:4084:HOH:O	2.35	0.48
10:2O:14:THR:O	10:2O:52:VAL:HG22	2.14	0.48
12:2Q:36:ALA:HB2	12:2Q:103:MET:SD	2.53	0.48
13:2R:33:ARG:HA	13:2R:114:VAL:O	2.12	0.48
26:24:46:GLN:C	26:24:48:ARG:H	2.21	0.48
32:2a:109:A:C6	32:2a:326:G:C6	3.01	0.48
32:2a:744:C:O2'	32:2a:851:G:N2	2.45	0.48
34:2c:162:GLN:NE2	53:2v:24:A:O3'	2.44	0.48
41:2j:65:LEU:HB2	45:2n:56:VAL:HG13	1.96	0.48
55:2x:17:C:OP1	55:2x:61:C:H5'	2.12	0.48
1:1A:94(A):G:H2'	1:1A:95:G:O4'	2.13	0.48
1:1A:1938:A:OP2	61:1A:4285:HOH:O	2.20	0.48
5:1F:143:ALA:HB1	5:1F:148:LEU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:77:ILE:HG22	6:1G:80:PHE:H	1.77	0.48
12:1Q:81:VAL:HB	22:10:7:LEU:HD21	1.96	0.48
25:13:55:ARG:NH2	25:13:57:GLU:HB2	2.28	0.48
32:1a:381:C:H2'	32:1a:382:A:O4'	2.13	0.48
32:1a:542:G:H5'	35:1d:41:GLY:HA3	1.95	0.48
32:1a:727:G:N2	32:1a:730:G:OP2	2.39	0.48
32:1a:1118:C:H2'	32:1a:1119:C:C6	2.47	0.48
35:1d:101:LEU:HD11	35:1d:126:ILE:HG21	1.95	0.48
35:1d:155:LEU:HD13	35:1d:157:LEU:H	1.77	0.48
51:1t:9:ASN:O	51:1t:10:LEU:HB2	2.13	0.48
54:1w:51:U:H2'	54:1w:52:G:H8	1.78	0.48
1:2A:236:C:H2'	1:2A:237:C:H6	1.78	0.48
1:2A:528:A:N1	1:2A:2042:A:H2'	2.27	0.48
1:2A:1364:G:C8	23:21:3:LYS:HD2	2.48	0.48
1:2A:1630:G:H2'	1:2A:1631:C:C6	2.48	0.48
1:2A:2030:A:H4'	1:2A:2031:A:C8	2.48	0.48
1:2A:2801(A):A:H1'	1:2A:2895:U:O2'	2.12	0.48
32:2a:1469:G:H2'	32:2a:1470:G:H8	1.78	0.48
33:2b:119:GLU:O	33:2b:123:ALA:HB3	2.14	0.48
41:2j:45:ARG:HG2	41:2j:47:PHE:CZ	2.48	0.48
1:1A:1712:C:H2'	1:1A:1713:U:O4'	2.13	0.48
1:1A:2611:U:C4	27:15:3:LYS:HG2	2.48	0.48
4:1E:101:ARG:HB3	4:1E:201:THR:HG21	1.96	0.48
11:1P:97:PRO:HD3	11:1P:126:VAL:O	2.14	0.48
13:1R:33:ARG:HH21	27:15:58:LEU:HB2	1.78	0.48
32:1a:250:A:H4'	32:1a:251:G:O5'	2.12	0.48
32:1a:332:G:H2'	32:1a:333:G:H8	1.79	0.48
32:1a:948:C:OP1	44:1m:109:THR:OG1	2.30	0.48
33:1b:95:GLN:OE1	33:1b:147:LYS:HG2	2.12	0.48
35:1d:196:LEU:C	35:1d:198:VAL:H	2.22	0.48
37:1f:35:ALA:HB2	37:1f:67:MET:HE2	1.94	0.48
41:1j:27:ALA:HA	41:1j:81:THR:HG21	1.94	0.48
1:2A:236:C:H2'	1:2A:237:C:C6	2.48	0.48
1:2A:1777:U:H2'	1:2A:1778:U:H6	1.79	0.48
1:2A:2600:A:H2'	1:2A:2601:C:C6	2.48	0.48
5:2F:110:LEU:HD21	5:2F:181:LEU:HD23	1.94	0.48
12:2Q:38:GLU:HG3	12:2Q:128:LYS:H	1.79	0.48
13:2R:63:ARG:O	13:2R:67:LEU:HB2	2.14	0.48
18:2W:16:LYS:O	18:2W:19:LEU:HB2	2.12	0.48
32:2a:242:C:H2'	32:2a:243:A:H5'	1.94	0.48
32:2a:1157:A:C2	32:2a:1180:A:H2'	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1289:A:H3'	32:2a:1290:G:H8	1.78	0.48
36:2e:71:LEU:HD21	36:2e:114:GLY:C	2.38	0.48
37:2f:33:TYR:HE2	37:2f:78:GLU:HG2	1.79	0.48
38:2g:115:ARG:O	38:2g:119:ARG:HG3	2.14	0.48
40:2i:17:VAL:HA	40:2i:63:ILE:HG23	1.95	0.48
51:2t:67:ALA:HA	51:2t:72:LEU:O	2.13	0.48
1:1A:428:A:H8	1:1A:428:A:OP2	1.97	0.48
1:1A:1400:G:H2'	1:1A:1401:G:C8	2.49	0.48
1:1A:1654:A:O4'	1:1A:2823:A:H5'	2.14	0.48
1:1A:2188:C:H2'	1:1A:2189:U:O4'	2.14	0.48
1:1A:2684:U:O2'	10:1O:68:GLU:OE2	2.22	0.48
19:1X:72:LYS:HE3	19:1X:73:ARG:O	2.13	0.48
32:1a:219:C:H2'	32:1a:220:G:O4'	2.14	0.48
32:1a:950:U:H2'	32:1a:951:G:C8	2.48	0.48
32:1a:1065:U:H1'	32:1a:1066:C:OP2	2.13	0.48
39:1h:17:THR:O	39:1h:78:GLN:NE2	2.34	0.48
45:1n:53:LEU:O	45:1n:56:VAL:HG23	2.14	0.48
54:1w:63:G:H2'	54:1w:64:A:C8	2.48	0.48
1:2A:537:C:O2	9:2N:45:ASN:ND2	2.46	0.48
1:2A:582:G:H2'	1:2A:583:G:C8	2.48	0.48
1:2A:729:G:H5'	1:2A:730:C:H5"	1.95	0.48
1:2A:887:A:H4'	1:2A:888:C:C5	2.49	0.48
1:2A:887:A:H4'	1:2A:888:C:H5	1.79	0.48
1:2A:1352:U:OP2	61:2A:3975:HOH:O	2.20	0.48
5:2F:7:TYR:O	5:2F:22:ALA:N	2.44	0.48
8:2I:37:VAL:HG12	8:2I:38:LEU:HD12	1.95	0.48
8:2I:77:LEU:HD12	8:2I:101:LEU:HG	1.94	0.48
11:2P:21:ARG:O	61:2P:301:HOH:O	2.20	0.48
12:2Q:56:ARG:NH1	54:2w:52:G:H5"	2.27	0.48
20:2Y:9:LYS:HE2	20:2Y:28:LYS:O	2.13	0.48
32:2a:892:A:O2'	32:2a:1415:G:H4'	2.12	0.48
32:2a:968:A:C4	32:2a:1062:U:H4'	2.48	0.48
32:2a:986:A:H1'	50:2s:54:GLY:O	2.13	0.48
33:2b:16:HIS:CG	33:2b:17:PHE:N	2.82	0.48
33:2b:47:THR:HA	33:2b:202:PRO:HG2	1.94	0.48
1:1A:27:G:N2	1:1A:512:G:H1'	2.29	0.48
1:1A:34:C:H5"	1:1A:35:G:OP2	2.14	0.48
1:1A:207:A:H2'	1:1A:208:C:O4'	2.12	0.48
1:1A:422:A:H2'	1:1A:423:A:C8	2.48	0.48
1:1A:1588:C:H2'	1:1A:1589:C:H6	1.79	0.48
2:1B:11:C:H3'	2:1B:12:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:109:LYS:O	4:1E:111:ARG:NH1	2.45	0.48
7:1H:149:ARG:NH1	7:1H:167:GLU:OE2	2.40	0.48
32:1a:138:G:H2'	32:1a:139:G:H8	1.78	0.48
32:1a:524:G:H2'	32:1a:525:C:C6	2.48	0.48
32:1a:748:C:H4'	32:1a:749:C:O5'	2.14	0.48
32:1a:1003:G:H2'	32:1a:1004:A:N3	2.29	0.48
33:1b:16:HIS:CG	33:1b:17:PHE:H	2.31	0.48
34:1c:95:THR:C	34:1c:97:LYS:N	2.72	0.48
37:1f:30:LEU:HD23	37:1f:75:LEU:HD21	1.95	0.48
44:1m:34:LEU:HD13	44:1m:41:PRO:HA	1.94	0.48
51:1t:43:LEU:O	51:1t:47:GLY:N	2.30	0.48
51:1t:60:GLU:HG3	51:1t:81:LYS:HD2	1.96	0.48
1:2A:184:C:H2'	1:2A:185:U:H6	1.79	0.48
1:2A:271(O):C:H2'	1:2A:271(P):C:C6	2.48	0.48
1:2A:690:G:H2'	1:2A:691:C:C6	2.48	0.48
19:2X:8:ILE:O	24:22:36:ARG:NH2	2.47	0.48
27:25:40:LYS:NZ	27:25:44:THR:O	2.39	0.48
32:2a:194:C:C2'	32:2a:195:A:H5"	2.43	0.48
32:2a:828:A:H2'	32:2a:829:G:O4'	2.12	0.48
32:2a:1288:A:N3	32:2a:1352:C:O2'	2.43	0.48
32:2a:1295:G:O2'	44:2m:14:ARG:NH1	2.47	0.48
33:2b:55:PHE:CE1	33:2b:218:ALA:HA	2.48	0.48
35:2d:8:VAL:HA	35:2d:11:LEU:HD13	1.96	0.48
44:2m:4:ILE:HG23	44:2m:5:ALA:H	1.78	0.48
55:2x:33:U:O2'	55:2x:35:A:N7	2.45	0.48
1:1A:668:G:H5'	1:1A:669:G:OP2	2.12	0.48
1:1A:1056:G:H1'	1:1A:1103:A:H61	1.78	0.48
1:1A:2461:C:H2'	1:1A:2462:U:C6	2.48	0.48
1:1A:2763:G:OP2	61:1A:4283:HOH:O	2.20	0.48
6:1G:179:PRO:HB2	26:14:42:PHE:HE2	1.79	0.48
7:1H:13:LYS:HA	7:1H:14:GLY:HA2	1.59	0.48
7:1H:20:ALA:HB3	7:1H:23:ARG:HG3	1.95	0.48
13:1R:2:ARG:HG2	13:1R:5:LYS:HB2	1.96	0.48
23:11:56:GLN:HE21	23:11:87:PRO:HD3	1.79	0.48
32:1a:538:G:H5"	43:1l:114:LYS:HB2	1.95	0.48
34:1c:131:ARG:HE	34:1c:135:LYS:HZ2	1.62	0.48
35:1d:12:CYS:SG	35:1d:19:LEU:HB2	2.54	0.48
43:1l:82:VAL:O	43:1l:106:ASP:HB2	2.13	0.48
44:1m:78:ILE:HG22	44:1m:82:MET:HE2	1.96	0.48
54:1w:66:U:H1'	61:1w:205:HOH:O	2.13	0.48
1:2A:1268:A:H2'	1:2A:1269:A:O4'	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1847:A:H3'	1:2A:1848:A:H5'	1.95	0.48
1:2A:2131:G:H4'	1:2A:2132:U:O5'	2.14	0.48
1:2A:2134:A:H2'	1:2A:2134:A:N3	2.28	0.48
1:2A:2203:U:H2'	1:2A:2205:C:C6	2.49	0.48
1:2A:2853:C:H2'	1:2A:2854:G:C8	2.48	0.48
3:2D:26:LYS:NZ	3:2D:94:LEU:HD22	2.28	0.48
6:2G:133:LEU:HG	6:2G:157:ILE:HB	1.96	0.48
12:2Q:16:ARG:HG2	12:2Q:18:LYS:HE3	1.96	0.48
26:24:50:VAL:HG21	44:2m:64:TRP:C	2.38	0.48
32:2a:1060:C:O2'	41:2j:56:HIS:ND1	2.35	0.48
32:2a:1198:G:H2'	32:2a:1199:U:C6	2.48	0.48
32:2a:1402:4OC:HM22	32:2a:1403:C:H5'	1.96	0.48
32:2a:1518:MA6:H93	32:2a:1519:MA6:C9	2.43	0.48
34:2c:152:ILE:HD11	34:2c:199:LYS:HD2	1.95	0.48
42:2k:122:LYS:O	42:2k:126:ARG:HG3	2.14	0.48
44:2m:60:VAL:HG13	44:2m:64:TRP:CE3	2.48	0.48
45:2n:26:ARG:HB3	45:2n:43:CYS:SG	2.53	0.48
45:2n:45:ARG:HA	45:2n:48:ALA:HB3	1.95	0.48
46:2o:68:ARG:NH1	61:2o:101:HOH:O	2.46	0.48
50:2s:32:LYS:HA	50:2s:50:ALA:HB3	1.96	0.48
51:2t:9:ASN:OD1	51:2t:9:ASN:N	2.47	0.48
54:2w:54:5MU:H2'	54:2w:55:PSU:O4'	2.13	0.48
1:1A:717:G:H2'	1:1A:718:A:O4'	2.14	0.48
1:1A:922:U:H2'	1:1A:923:C:C6	2.49	0.48
1:1A:955:C:OP1	12:1Q:87:LYS:NZ	2.39	0.48
1:1A:1686:C:H2'	1:1A:1687:G:O4'	2.14	0.48
3:1D:11:PRO:O	3:1D:14:ARG:HB2	2.14	0.48
4:1E:190:GLY:HA3	61:1E:414:HOH:O	2.13	0.48
18:1W:25:ARG:NH2	18:1W:74:ALA:O	2.36	0.48
32:1a:253:U:H2'	32:1a:254:G:H8	1.78	0.48
32:1a:942:G:H21	40:1i:124:GLN:NE2	2.11	0.48
32:1a:1239:A:H62	32:1a:1299:A:H62	1.62	0.48
38:1g:26:PHE:CE2	38:1g:30:ILE:HD11	2.49	0.48
55:1x:33:U:N3	55:1x:36:U:OP2	2.38	0.48
1:2A:301:G:H1'	1:2A:302:C:C6	2.49	0.48
1:2A:774:A:H2'	1:2A:774:A:N3	2.28	0.48
1:2A:942:G:H4'	1:2A:1190:G:H5'	1.96	0.48
1:2A:2151:G:N2	1:2A:2152:G:C4	2.81	0.48
6:2G:79:ASN:N	6:2G:79:ASN:OD1	2.46	0.48
12:2Q:1:MET:SD	12:2Q:1:MET:N	2.65	0.48
20:2Y:43:ASN:OD1	20:2Y:65:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:676:A:N6	61:2a:1972:HOH:O	2.41	0.48
32:2a:1114:C:H42	32:2a:1186:G:H1	1.62	0.48
32:2a:1256:A:H61	32:2a:1278:U:C1'	2.27	0.48
35:2d:201:GLN:HE22	36:2e:99:GLY:HA2	1.78	0.48
54:2w:2:C:H2'	54:2w:3:C:C6	2.49	0.48
1:1A:320:A:C5	5:1F:136:THR:HG21	2.49	0.48
1:1A:1416:G:O2'	1:1A:1417:C:OP2	2.24	0.48
1:1A:1541:G:O6	61:1A:4287:HOH:O	2.20	0.48
1:1A:2126:A:N6	1:1A:2162:G:O2'	2.47	0.48
1:1A:2580:U:OP1	61:1A:4290:HOH:O	2.20	0.48
1:1A:2691:C:O3'	1:1A:2871:C:H4'	2.14	0.48
3:1D:232:PRO:HB3	3:1D:244:ARG:CZ	2.44	0.48
12:1Q:7:MET:HE2	12:1Q:7:MET:HB3	1.79	0.48
14:1S:27:SER:HA	14:1S:88:ASP:HB3	1.96	0.48
20:1Y:37:VAL:HG21	20:1Y:72:VAL:HG21	1.96	0.48
21:1Z:54:HIS:HB2	21:1Z:55:HIS:CD2	2.49	0.48
32:1a:362:G:N1	32:1a:365:U:OP2	2.39	0.48
32:1a:568:G:O2'	32:1a:574:A:N1	2.43	0.48
32:1a:1201:A:H1'	32:1a:1202:G:OP2	2.14	0.48
33:1b:201:ILE:HG21	33:1b:214:ILE:HG21	1.96	0.48
36:1e:24:ARG:H	36:1e:24:ARG:HG2	1.42	0.48
55:1x:68:C:H2'	55:1x:69:C:C6	2.49	0.48
1:2A:862:G:O2'	2:2B:78:A:N3	2.47	0.48
1:2A:1449:A:HO2'	1:2A:1529:G:N2	2.10	0.48
1:2A:2142:C:H2'	1:2A:2143:C:C6	2.49	0.48
1:2A:2365:G:OP1	22:20:55:ARG:N	2.46	0.48
5:2F:53:THR:HG23	5:2F:55:GLY:N	2.26	0.48
6:2G:114:ILE:HB	6:2G:117:PHE:HD1	1.78	0.48
7:2H:143:GLN:NE2	7:2H:147:ASN:OD1	2.47	0.48
7:2H:150:ALA:HA	7:2H:153:LYS:HG3	1.96	0.48
10:2O:49:ARG:NH1	32:2a:1422:G:O3'	2.44	0.48
32:2a:407:G:H5"	35:2d:115:ARG:HB3	1.96	0.48
32:2a:1010:G:H2'	32:2a:1011:G:H8	1.79	0.48
32:2a:1052:U:O2'	32:2a:1055:A:OP2	2.21	0.48
32:2a:1347:G:N2	32:2a:1373:G:H2'	2.28	0.48
32:2a:1516:G:N1	32:2a:1519:MA6:OP2	2.45	0.48
33:2b:74:LYS:HG2	33:2b:169:LYS:HG2	1.95	0.48
39:2h:20:TYR:HA	39:2h:65:TYR:CZ	2.49	0.48
40:2i:48:GLU:HG2	40:2i:101:PHE:CZ	2.48	0.48
44:2m:5:ALA:HB3	44:2m:22:ILE:HG21	1.96	0.48
44:2m:86:CYS:HB2	50:2s:73:GLU:CG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:2w:36:A:H2'	54:2w:37:MIA:H8	1.96	0.48
1:1A:1584:C:O2'	1:1A:1586:A:H5'	2.14	0.48
1:1A:1828:G:H8	1:1A:1828:G:OP2	1.97	0.48
1:1A:1920:4OC:O5'	1:1A:1920:4OC:H6	2.14	0.48
1:1A:2155:G:H5"	1:1A:2156:G:C8	2.49	0.48
1:1A:2168:G:N1	1:1A:2171:A:C8	2.82	0.48
7:1H:24:VAL:HG22	7:1H:35:VAL:HB	1.96	0.48
32:1a:321:A:H61	32:1a:332:G:H1	1.60	0.48
32:1a:501:C:H2'	32:1a:502:G:C8	2.49	0.48
33:1b:163:PHE:CD1	33:1b:185:ILE:HG13	2.48	0.48
41:1j:19:SER:OG	41:1j:91:PRO:HD2	2.13	0.48
46:1o:18:PHE:C	46:1o:20:GLY:H	2.20	0.48
1:2A:1019:U:H2'	1:2A:1020:A:H8	1.78	0.48
1:2A:1256:G:H1'	5:2F:82:ILE:HD11	1.95	0.48
1:2A:2127:G:C6	1:2A:2161:C:N4	2.82	0.48
1:2A:2391:G:O2'	1:2A:2422:A:N7	2.47	0.48
4:2E:96:PHE:O	4:2E:175:VAL:HG21	2.14	0.48
7:2H:11:VAL:HG13	7:2H:15:VAL:HG22	1.95	0.48
7:2H:90:LYS:HG2	7:2H:159:GLU:HG2	1.96	0.48
11:2P:95:VAL:HG13	11:2P:125:VAL:HA	1.96	0.48
32:2a:401:C:H2'	32:2a:402:G:C8	2.49	0.48
32:2a:750:G:N3	46:2o:23:GLY:HA3	2.29	0.48
32:2a:953:G:H5'	32:2a:965:A:N6	2.25	0.48
32:2a:1005:A:H5"	32:2a:1006:C:C5	2.49	0.48
40:2i:82:ALA:HA	40:2i:85:LEU:HD12	1.95	0.48
44:2m:19:LEU:HD21	44:2m:56:LEU:HD21	1.95	0.48
1:1A:143:G:H4'	19:1X:35:THR:HG21	1.95	0.47
1:1A:152:G:H2'	1:1A:153:C:C6	2.49	0.47
1:1A:816:C:O2'	1:1A:932:G:O6	2.32	0.47
1:1A:2492:U:H2'	1:1A:2493:U:C6	2.49	0.47
9:1N:1:MET:HE3	16:1U:97:ASP:OD2	2.14	0.47
21:1Z:157:LEU:HD12	21:1Z:161:VAL:HG23	1.96	0.47
26:14:60:GLN:HA	26:14:62:ARG:HG2	1.96	0.47
32:1a:339:C:H2'	32:1a:340:U:C6	2.48	0.47
32:1a:487:A:H2'	32:1a:488:C:O4'	2.14	0.47
32:1a:504:C:OP1	61:1a:1927:HOH:O	2.19	0.47
32:1a:1090:U:H2'	32:1a:1091:U:C6	2.48	0.47
32:1a:1424:C:H2'	32:1a:1425:U:O4'	2.14	0.47
40:1i:27:THR:HG23	40:1i:62:TYR:HA	1.96	0.47
48:1q:6:LEU:HB3	48:1q:23:VAL:HG11	1.95	0.47
52:1u:6:ARG:O	52:1u:12:LYS:HE3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:620:G:H8	1:2A:622:G:O6	1.97	0.47
1:2A:1131:G:O6	1:2A:2040:C:H1'	2.13	0.47
1:2A:2176:A:H2'	1:2A:2177:C:H6	1.78	0.47
1:2A:2345:G:N3	1:2A:2381:C:H2'	2.28	0.47
1:2A:2687:U:H2'	1:2A:2688:U:O4'	2.14	0.47
1:2A:2809:A:H62	1:2A:2891:G:H2'	1.79	0.47
6:2G:51:ARG:H	6:2G:51:ARG:NE	2.12	0.47
7:2H:16:SER:N	7:2H:27:LYS:O	2.41	0.47
11:2P:97:PRO:HD3	11:2P:126:VAL:O	2.13	0.47
13:2R:56:LYS:NZ	13:2R:87:TYR:O	2.47	0.47
21:2Z:24:LEU:HD11	21:2Z:86:VAL:HG23	1.95	0.47
32:2a:509:A:H5"	35:2d:55:ALA:HB2	1.95	0.47
32:2a:1201:A:H1'	32:2a:1202:G:OP2	2.14	0.47
32:2a:1267:C:N3	32:2a:1327:C:O2'	2.44	0.47
32:2a:1504:G:H4'	32:2a:1505:G:C4	2.49	0.47
51:2t:47:GLY:HA2	51:2t:48:LYS:C	2.39	0.47
1:1A:1363:C:O2'	1:1A:1809:A:N3	2.45	0.47
1:1A:1794:U:H2'	1:1A:1795:C:C6	2.49	0.47
1:1A:2505:G:O2'	1:1A:2506:U:H5"	2.14	0.47
32:1a:578:C:OP1	61:1a:1928:HOH:O	2.20	0.47
34:1c:110:ASN:N	34:1c:110:ASN:OD1	2.46	0.47
43:1l:82:VAL:HG12	43:1l:105:TYR:HB3	1.96	0.47
54:1w:48:C:C2	54:1w:59:U:H1'	2.49	0.47
56:1y:48:C:C2	56:1y:59:U:H1'	2.49	0.47
1:2A:24:G:O2'	18:2W:77:ASP:HB3	2.14	0.47
1:2A:534:U:H5'	16:2U:42:ALA:HB1	1.95	0.47
1:2A:1025:G:C4	1:2A:1135:C:H1'	2.50	0.47
1:2A:2218:U:N3	23:21:55:GLY:O	2.47	0.47
4:2E:7:VAL:HG12	4:2E:27:LEU:HB3	1.95	0.47
4:2E:52:LEU:HD12	4:2E:77:ILE:HD13	1.95	0.47
5:2F:123:LEU:HD13	5:2F:192:LEU:HB3	1.96	0.47
13:2R:44:LEU:HD22	13:2R:48:VAL:HG23	1.96	0.47
16:2U:58:ARG:HA	16:2U:61:TRP:CE3	2.49	0.47
17:2V:24:LYS:HE2	17:2V:24:LYS:HB3	1.73	0.47
32:2a:222:U:H2'	32:2a:223:U:C6	2.49	0.47
32:2a:254:G:OP1	48:2q:66:SER:OG	2.26	0.47
32:2a:662:G:H2'	32:2a:663:A:C8	2.48	0.47
32:2a:839:U:H5"	32:2a:840:C:H5	1.80	0.47
33:2b:134:GLU:O	33:2b:138:LEU:HG	2.14	0.47
37:2f:2:ARG:CZ	37:2f:69:GLU:HG2	2.44	0.47
37:2f:42:GLU:HG3	37:2f:61:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2262:U:OP1	1:1A:2387:U:O2'	2.32	0.47
1:1A:2887:U:H2'	1:1A:2888:C:C6	2.48	0.47
3:1D:17:THR:O	3:1D:211:ARG:NH2	2.47	0.47
6:1G:61:ALA:O	6:1G:65:GLY:N	2.46	0.47
8:1I:93:THR:HG22	8:1I:119:PRO:HB3	1.97	0.47
12:1Q:138:ASP:OD2	21:1Z:81:ARG:NH1	2.48	0.47
20:1Y:20:TYR:CE2	20:1Y:43:ASN:HA	2.50	0.47
32:1a:163:C:H2'	32:1a:164:U:C6	2.49	0.47
37:1f:97:PHE:O	49:1r:31:LEU:N	2.40	0.47
1:2A:29:U:H2'	1:2A:30:G:C8	2.50	0.47
1:2A:94(A):G:H2'	1:2A:95:G:O4'	2.15	0.47
1:2A:1443:G:N7	61:2A:4086:HOH:O	2.35	0.47
1:2A:2641:G:H5"	9:2N:76:SER:HB3	1.96	0.47
2:2B:1:U:O2'	2:2B:2:C:O5'	2.28	0.47
7:2H:84:SER:HA	7:2H:133:VAL:O	2.15	0.47
10:2O:9:GLU:OE2	10:2O:18:LYS:HE3	2.14	0.47
14:2S:3:ARG:NH1	14:2S:4:LEU:H	2.12	0.47
14:2S:87:PHE:HB2	14:2S:112:PHE:CE1	2.50	0.47
32:2a:43:C:H2'	32:2a:44:G:O4'	2.13	0.47
32:2a:539:A:H2'	32:2a:540:G:C8	2.49	0.47
32:2a:975:A:H5'	32:2a:975:A:H8	1.78	0.47
33:2b:16:HIS:CE1	33:2b:42:ILE:HD12	2.49	0.47
33:2b:74:LYS:O	33:2b:78:GLN:NE2	2.47	0.47
33:2b:95:GLN:HG2	33:2b:147:LYS:HG3	1.96	0.47
1:1A:1509(A):A:H3'	1:1A:1509(B):A:H8	1.79	0.47
1:1A:1509(A):A:H2'	1:1A:1509(B):A:O4'	2.15	0.47
1:1A:1639:U:O2'	1:1A:1640:C:H5'	2.14	0.47
1:1A:2028:U:H2'	1:1A:2029:G:O4'	2.14	0.47
1:1A:2110:G:O2'	1:1A:2120:G:OP2	2.31	0.47
1:1A:2477:C:N4	31:19:10:ILE:HG23	2.29	0.47
2:1B:42:C:O2	6:1G:93:THR:N	2.35	0.47
2:1B:66:A:N6	2:1B:109:C:H5'	2.24	0.47
13:1R:79:LEU:HD23	13:1R:83:ILE:HB	1.95	0.47
15:1T:1:MET:HE2	15:1T:3:ARG:HG3	1.97	0.47
15:1T:11:GLU:O	15:1T:15:VAL:HG23	2.14	0.47
17:1V:80:GLN:HA	17:1V:82:ARG:HH11	1.78	0.47
32:1a:542:G:O3'	35:1d:14:ARG:NH2	2.47	0.47
32:1a:975:A:H5'	32:1a:975:A:C8	2.48	0.47
34:1c:6:HIS:CD2	34:1c:8:ILE:HB	2.49	0.47
36:1e:116:THR:HG23	36:1e:117:ASP:OD2	2.14	0.47
38:1g:78:ARG:HG2	38:1g:79:ARG:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:1p:6:LEU:HB3	47:1p:17:TYR:HB3	1.95	0.47
56:1y:9:A:H4'	56:1y:46:7MG:OP2	2.13	0.47
1:2A:579:G:H2'	1:2A:580:C:C6	2.50	0.47
1:2A:740:U:H2'	1:2A:741:G:C8	2.49	0.47
1:2A:1011:G:OP2	16:2U:66:ASN:ND2	2.34	0.47
1:2A:1581:G:H2'	1:2A:1582:C:O4'	2.15	0.47
1:2A:2135:A:C4	1:2A:2136:C:H5	2.31	0.47
1:2A:2721:A:H2'	1:2A:2722:G:O4'	2.15	0.47
3:2D:83:GLU:OE1	3:2D:104:TYR:OH	2.22	0.47
5:2F:24:LEU:HD12	5:2F:24:LEU:HA	1.74	0.47
9:2N:32:THR:HG23	9:2N:37:LYS:HB2	1.95	0.47
15:2T:74:ARG:HG2	15:2T:76:PHE:CZ	2.49	0.47
19:2X:89:ILE:O	19:2X:93:GLU:HG2	2.15	0.47
24:22:1:MET:HB3	24:22:5:GLU:OE1	2.15	0.47
27:25:20:ARG:HG2	27:25:23:HIS:CE1	2.49	0.47
32:2a:1190:G:H5'	34:2c:176:HIS:CE1	2.49	0.47
32:2a:1273:G:H3'	32:2a:1274:G:C8	2.48	0.47
37:2f:2:ARG:NE	37:2f:69:GLU:HG2	2.29	0.47
40:2i:128:ARG:NE	55:2x:32:5MC:OP2	2.41	0.47
45:2n:59:ALA:HB1	45:2n:61:TRP:HZ3	1.79	0.47
48:2q:32:TYR:O	48:2q:34:LYS:N	2.46	0.47
51:2t:60:GLU:HG3	51:2t:81:LYS:HD2	1.95	0.47
54:2w:72:C:H2'	54:2w:73:A:C8	2.49	0.47
1:1A:1275:A:H4'	61:1A:4680:HOH:O	2.13	0.47
1:1A:2130:U:H2'	1:1A:2158:A:N1	2.30	0.47
1:1A:2316:C:HO2'	6:1G:128:ARG:NH2	2.07	0.47
4:1E:50:GLY:CA	4:1E:75:VAL:HG11	2.45	0.47
6:1G:65:GLY:HA2	26:14:7:PRO:HG2	1.95	0.47
10:1O:64:ARG:HD2	10:1O:81:ASP:OD1	2.14	0.47
14:1S:87:PHE:HB2	14:1S:112:PHE:CD1	2.49	0.47
28:16:9:LEU:HD13	28:16:51:GLU:HG3	1.96	0.47
32:1a:115:G:H4'	32:1a:116:A:O5'	2.14	0.47
32:1a:376:G:O3'	47:1p:5:ARG:HD2	2.15	0.47
32:1a:977:A:O2'	32:1a:981:U:N3	2.45	0.47
32:1a:1179:A:H4'	40:1i:103:THR:HA	1.95	0.47
32:1a:1250:A:H61	32:1a:1354:C:H1'	1.80	0.47
32:1a:1263:C:H2'	32:1a:1264:C:C6	2.50	0.47
33:1b:178:ARG:NH2	39:1h:74:PRO:HB3	2.29	0.47
1:2A:1158:C:H4'	25:23:32:GLN:HB2	1.97	0.47
1:2A:1423:G:H2'	1:2A:1424:G:H8	1.79	0.47
1:2A:2100:G:H2'	1:2A:2101:G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2334:G:H5'	14:2S:9:ARG:HG2	1.96	0.47
1:2A:2698:U:H2'	1:2A:2699:C:C6	2.49	0.47
1:2A:2745:C:H2'	1:2A:2746:U:O4'	2.14	0.47
6:2G:12:TYR:O	6:2G:16:ARG:HB2	2.15	0.47
6:2G:70:VAL:HA	6:2G:90:LEU:HD23	1.96	0.47
15:2T:85:LYS:NZ	15:2T:87:ASP:OD2	2.47	0.47
32:2a:373:A:O2'	32:2a:451:A:N7	2.47	0.47
32:2a:1347:G:O2'	32:2a:1373:G:N1	2.45	0.47
43:2l:27:LEU:C	43:2l:29:GLY:H	2.21	0.47
1:1A:53:A:H2'	1:1A:54:G:O4'	2.14	0.47
1:1A:749:C:H4'	1:1A:1271:G:N3	2.29	0.47
1:1A:1528:A:H2'	1:1A:1528(A):A:C8	2.49	0.47
1:1A:2073:C:H5"	3:1D:229:VAL:HG13	1.96	0.47
1:1A:2629:A:H1'	1:1A:2630:G:O5'	2.14	0.47
11:1P:15:ARG:HG3	61:1P:320:HOH:O	2.15	0.47
21:1Z:5:LEU:HB2	21:1Z:47:VAL:HG21	1.97	0.47
32:1a:868:C:H2'	32:1a:869:G:O4'	2.15	0.47
32:1a:1346:A:N1	32:1a:1374:A:H5"	2.29	0.47
32:1a:1531:A:H8	32:1a:1531:A:O5'	1.98	0.47
44:1m:3:ARG:HB2	44:1m:57:ARG:HH21	1.79	0.47
46:1o:18:PHE:CZ	46:1o:21:ASP:HB2	2.49	0.47
48:1q:62:SER:OG	48:1q:72:ARG:NE	2.44	0.47
1:2A:257:A:H2'	1:2A:258:G:O4'	2.15	0.47
1:2A:589:C:H2'	1:2A:590:A:C8	2.49	0.47
1:2A:860:U:C2	1:2A:2268:A:C8	3.03	0.47
1:2A:992:C:OP1	17:2V:74:LYS:NZ	2.34	0.47
1:2A:1179:C:H2'	1:2A:1180:C:C6	2.49	0.47
1:2A:1181:C:H2'	1:2A:1182:A:C8	2.50	0.47
1:2A:1220:A:OP2	16:2U:19:LYS:NZ	2.35	0.47
6:2G:43:LEU:C	6:2G:45:GLU:H	2.21	0.47
10:2O:24:VAL:CG1	10:2O:33:ALA:HB2	2.45	0.47
26:24:61:ARG:HD2	26:24:61:ARG:HA	1.71	0.47
32:2a:397:A:H5'	32:2a:398:C:OP1	2.14	0.47
32:2a:1305:G:H5'	52:2u:4:GLY:HA3	1.95	0.47
32:2a:1401:G:C2	32:2a:1402:4OC:H1'	2.49	0.47
33:2b:8:LYS:CG	33:2b:9:GLU:H	2.28	0.47
34:2c:25:GLY:O	34:2c:29:TYR:HB2	2.15	0.47
42:2k:78:GLN:HE21	42:2k:78:GLN:HA	1.79	0.47
54:2w:27:G:H2'	54:2w:28:G:H8	1.79	0.47
55:2x:75:C:OP1	61:2x:202:HOH:O	2.20	0.47
1:1A:189:G:H2'	1:1A:205:G:N2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:322:A:OP1	5:1F:168:ARG:HD2	2.14	0.47
1:1A:570:G:H2'	1:1A:2030:A:C5	2.49	0.47
1:1A:888:C:O2	44:1m:83:ASP:HA	2.15	0.47
1:1A:1052:C:H2'	1:1A:1053:C:C6	2.49	0.47
1:1A:1074:G:C6	1:1A:1075:C:H1'	2.50	0.47
1:1A:1814:G:H4'	3:1D:51:VAL:HG21	1.97	0.47
1:1A:1899:G:N3	1:1A:1899:G:H2'	2.30	0.47
1:1A:2100:G:H2'	1:1A:2101:G:H8	1.78	0.47
1:1A:2141:G:C6	1:1A:2142:C:C2	3.03	0.47
1:1A:2327:A:H2'	1:1A:2328:A:C8	2.49	0.47
1:1A:2337:G:C2	1:1A:2338:G:C8	3.03	0.47
6:1G:127:GLY:H	6:1G:166:ASP:CG	2.22	0.47
13:1R:57:ARG:HH21	13:1R:62:ALA:HB2	1.79	0.47
14:1S:38:GLN:O	14:1S:40:ILE:HG13	2.15	0.47
15:1T:20:PRO:HD2	15:1T:86:ILE:HB	1.97	0.47
15:1T:59:THR:HG23	15:1T:78:LEU:HB3	1.96	0.47
20:1Y:34:LYS:NZ	61:1Y:301:HOH:O	2.27	0.47
20:1Y:42:VAL:HG12	20:1Y:67:LEU:HD11	1.97	0.47
27:15:40:LYS:HD2	27:15:46:CYS:HA	1.97	0.47
31:19:25:VAL:HB	31:19:34:GLN:HB2	1.96	0.47
32:1a:130:A:N3	32:1a:263:A:O2'	2.46	0.47
32:1a:999:C:H2'	32:1a:1000:U:O4'	2.14	0.47
32:1a:1333:A:H2'	32:1a:1334:G:O4'	2.15	0.47
32:1a:1460:A:H2'	32:1a:1461:G:O4'	2.14	0.47
48:1q:32:TYR:O	48:1q:34:LYS:N	2.48	0.47
51:1t:50:GLU:HA	51:1t:100:ILE:HG12	1.96	0.47
53:1v:20:U:H2'	53:1v:21:C:C6	2.50	0.47
55:1x:55:PSU:N3	55:1x:58:A:OP2	2.38	0.47
1:2A:582:G:OP2	61:2A:3979:HOH:O	2.20	0.47
1:2A:2070:G:H2'	1:2A:2071:A:H8	1.80	0.47
1:2A:2699:C:H2'	1:2A:2700:C:O4'	2.14	0.47
5:2F:37:VAL:HG13	5:2F:184:TYR:HD1	1.79	0.47
7:2H:121:ILE:HG13	7:2H:144:VAL:HG21	1.95	0.47
13:2R:24:GLN:OE1	13:2R:36:THR:HG21	2.15	0.47
14:2S:56:LEU:HB3	14:2S:58:LEU:HD23	1.97	0.47
32:2a:595:G:H1'	32:2a:596:C:H5	1.80	0.47
32:2a:1010:G:N1	32:2a:1020:U:H1'	2.29	0.47
32:2a:1130:A:H5"	40:2i:18:PHE:CE2	2.50	0.47
32:2a:1530:G:OP1	32:2a:1530:G:H4'	2.15	0.47
34:2c:111:LEU:HD22	34:2c:146:ALA:HB2	1.95	0.47
38:2g:65:ALA:HB1	38:2g:127:ALA:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2l:104:VAL:HG12	43:2l:105:TYR:CG	2.49	0.47
45:2n:27:CYS:SG	45:2n:28:GLY:N	2.86	0.47
46:2o:82:ILE:O	46:2o:86:GLY:N	2.48	0.47
54:2w:11:C:H2'	54:2w:12:U:C6	2.49	0.47
1:1A:64:A:C5	19:1X:66:LEU:HD13	2.50	0.47
1:1A:586:A:N1	1:1A:809:G:O2'	2.42	0.47
1:1A:1045:A:H1'	1:1A:1047:G:N3	2.30	0.47
1:1A:1405:U:H2'	1:1A:1406:U:H6	1.80	0.47
1:1A:1802:A:N1	1:1A:1822:G:H1'	2.30	0.47
1:1A:1918:A:H8	1:1A:1918:A:OP2	1.98	0.47
1:1A:2245:U:O2'	1:1A:2436:G:OP2	2.26	0.47
2:1B:88:C:H2'	2:1B:89:G:O4'	2.15	0.47
9:1N:35:ARG:HD3	9:1N:37:LYS:HD2	1.96	0.47
14:1S:38:GLN:HB2	14:1S:47:THR:HG21	1.95	0.47
18:1W:46:PHE:O	18:1W:50:VAL:HG23	2.15	0.47
32:1a:657:G:H2'	32:1a:658:G:H8	1.79	0.47
32:1a:1148:U:H2'	32:1a:1149:C:O4'	2.14	0.47
32:1a:1149:C:H2'	32:1a:1150:U:C6	2.49	0.47
38:1g:138:LYS:NZ	38:1g:142:GLU:OE1	2.48	0.47
40:1i:4:TYR:CD1	40:1i:88:TYR:HA	2.50	0.47
43:1l:36:VAL:HG21	61:1l:307:HOH:O	2.15	0.47
1:2A:26:G:C6	1:2A:27:G:N1	2.82	0.47
1:2A:300:A:P	20:2Y:86:ARG:HH21	2.38	0.47
1:2A:828:U:H4'	1:2A:831:G:N1	2.30	0.47
1:2A:1759:A:O2'	1:2A:2714:G:O2'	2.28	0.47
1:2A:2135:A:H5"	1:2A:2159:G:O2'	2.14	0.47
1:2A:2537:U:H2'	1:2A:2538:C:C6	2.50	0.47
1:2A:2576:G:O2'	1:2A:2579:C:OP2	2.18	0.47
1:2A:2659:G:N2	1:2A:2662:A:OP2	2.48	0.47
4:2E:4:ILE:HD11	4:2E:29:GLY:HA2	1.97	0.47
7:2H:156:ALA:O	7:2H:172:LYS:HG2	2.15	0.47
15:2T:42:ILE:HG13	15:2T:84:GLN:NE2	2.29	0.47
32:2a:429:U:H1'	32:2a:430:A:H5"	1.96	0.47
32:2a:471:G:H2'	32:2a:472:A:C8	2.50	0.47
32:2a:806:C:H2'	32:2a:807:A:H8	1.80	0.47
32:2a:1085:U:H3'	32:2a:1086:U:C5	2.50	0.47
33:2b:19:HIS:CG	33:2b:20:GLU:H	2.32	0.47
39:2h:121:ASP:HB2	39:2h:125:ARG:NH1	2.30	0.47
42:2k:103:LEU:O	42:2k:105:VAL:N	2.47	0.47
1:1A:601:C:O2'	1:1A:605:C:H5"	2.14	0.47
1:1A:1364:G:N7	23:11:3:LYS:HD2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1750:G:O2'	1:1A:2860:A:N1	2.38	0.47
1:1A:2400:G:H2'	1:1A:2401:U:C6	2.50	0.47
23:11:64:ALA:HA	23:11:67:ILE:HG13	1.96	0.47
32:1a:189(D):C:H2'	32:1a:189(E):U:O4'	2.15	0.47
32:1a:840:C:H4'	32:1a:841:U:OP1	2.15	0.47
32:1a:901:A:O2'	32:1a:1513:A:OP1	2.28	0.47
32:1a:1118:C:P	40:1i:104:ARG:HH11	2.37	0.47
32:1a:1457:G:H2'	32:1a:1458:G:H8	1.80	0.47
50:1s:11:VAL:HG11	50:1s:16:LEU:HB2	1.96	0.47
1:2A:250:G:H2'	1:2A:251:A:C8	2.50	0.47
1:2A:854:G:H2'	1:2A:855:G:C8	2.50	0.47
1:2A:2506:U:H1'	54:2w:76:F3N:HD2	1.97	0.47
16:2U:91:ASP:H	17:2V:11:GLN:CD	2.21	0.47
32:2a:120:A:C6	32:2a:122:G:C2	3.03	0.47
42:2k:98:LEU:O	42:2k:101:SER:OG	2.25	0.47
56:2y:34:G:C2	56:2y:35:A:C4	3.03	0.47
1:1A:323:G:C8	5:1F:171:PRO:HG3	2.50	0.47
1:1A:466:A:N3	1:1A:683:C:H1'	2.30	0.47
1:1A:911:A:H2'	12:1Q:9:TYR:OH	2.15	0.47
1:1A:1963:U:H4'	1:1A:1964:G:OP1	2.15	0.47
1:1A:2507:C:H2'	1:1A:2508:G:O4'	2.15	0.47
19:1X:41:ASN:O	19:1X:45:THR:HG23	2.14	0.47
32:1a:691:G:OP2	42:1k:26:ASN:ND2	2.48	0.47
32:1a:1236:A:H4'	32:1a:1304:G:H4'	1.96	0.47
32:1a:1425:U:H2'	32:1a:1426:C:C6	2.50	0.47
33:1b:77:ALA:HB2	33:1b:211:ILE:HD13	1.96	0.47
36:1e:34:VAL:O	36:1e:42:GLY:N	2.46	0.47
37:1f:17:SER:O	37:1f:21:LEU:HG	2.14	0.47
56:1y:27:G:H2'	56:1y:28:G:H8	1.79	0.47
1:2A:217:G:H2'	1:2A:218:A:O4'	2.15	0.47
1:2A:628:G:H5"	30:28:18:ALA:HB2	1.97	0.47
1:2A:2143:C:O2	1:2A:2149:G:N2	2.48	0.47
32:2a:17:U:H2'	32:2a:18:C:C6	2.50	0.47
32:2a:438:G:H4'	35:2d:123:HIS:CE1	2.50	0.47
32:2a:520:A:OP1	43:2l:52:LEU:HB2	2.14	0.47
32:2a:719:C:O2'	49:2r:49:LYS:HB3	2.14	0.47
32:2a:838:G:H2'	32:2a:839:U:H2'	1.96	0.47
32:2a:1010:G:H2'	32:2a:1011:G:C8	2.50	0.47
34:2c:52:LEU:HD13	34:2c:68:VAL:HG13	1.96	0.47
35:2d:104:VAL:HG21	35:2d:140:VAL:HG21	1.96	0.47
38:2g:26:PHE:O	38:2g:30:ILE:HD12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:4:ASP:OD1	39:2h:7:ALA:N	2.31	0.47
41:2j:17:ASP:OD1	41:2j:70:ARG:NE	2.47	0.47
1:1A:952:G:P	12:1Q:16:ARG:HH21	2.38	0.46
1:1A:1709:U:H2'	1:1A:1710:C:C6	2.49	0.46
1:1A:2647:U:H2'	1:1A:2648:C:C6	2.50	0.46
1:1A:2747:G:O6	1:1A:2755:C:H5"	2.15	0.46
1:1A:2849:U:H4'	1:1A:2868:A:C2	2.50	0.46
3:1D:206:LEU:HD23	3:1D:206:LEU:HA	1.70	0.46
20:1Y:15:VAL:HG21	20:1Y:42:VAL:HG11	1.97	0.46
21:1Z:48:PHE:CE1	21:1Z:71:VAL:HG11	2.50	0.46
24:12:1:MET:HE3	24:12:5:GLU:HB3	1.96	0.46
32:1a:659:U:H2'	32:1a:660:G:C8	2.49	0.46
32:1a:932:C:H5"	38:1g:4:ARG:HG2	1.97	0.46
32:1a:1057:G:H2'	32:1a:1058:G:O4'	2.15	0.46
32:1a:1060:C:P	45:1n:45:ARG:HH22	2.38	0.46
35:1d:196:LEU:O	35:1d:198:VAL:N	2.41	0.46
1:2A:36:G:N3	1:2A:450:G:O2'	2.48	0.46
1:2A:576:U:H2'	1:2A:577:G:C8	2.50	0.46
1:2A:817:C:O2'	1:2A:839:U:H5"	2.14	0.46
1:2A:2121:G:H1	1:2A:2177:C:N4	2.10	0.46
1:2A:2131:G:N7	1:2A:2133:G:N2	2.63	0.46
1:2A:2335:A:C8	1:2A:2337:G:C5	3.03	0.46
1:2A:2540:C:O2	1:2A:2740:A:H2	1.98	0.46
1:2A:2693:A:H2'	1:2A:2694:G:C8	2.50	0.46
6:2G:39:ILE:HD11	6:2G:102:PHE:CZ	2.50	0.46
28:26:6:ARG:HD3	28:26:24:GLU:OE2	2.15	0.46
32:2a:93:G:C6	32:2a:96:U:C4	3.03	0.46
32:2a:1313:U:P	50:2s:5:LEU:HG	2.55	0.46
37:2f:41:GLU:OE1	49:2r:35:ARG:NH2	2.47	0.46
43:2l:117:ARG:HB3	43:2l:122:THR:HB	1.97	0.46
50:2s:66:MET:HB2	50:2s:74:PHE:CZ	2.50	0.46
54:2w:52:G:H2'	54:2w:53:G:H8	1.79	0.46
1:1A:1341:U:O2	19:1X:80:ILE:HD12	2.14	0.46
1:1A:1357:U:H2'	1:1A:1358:G:O4'	2.16	0.46
1:1A:1803:A:H4'	3:1D:259:THR:HG23	1.97	0.46
1:1A:2667:C:H2'	1:1A:2668:G:O4'	2.16	0.46
6:1G:22:ARG:CZ	6:1G:175:LEU:HD11	2.45	0.46
20:1Y:20:TYR:HB3	20:1Y:23:ARG:HG3	1.96	0.46
26:14:15:ILE:O	26:14:33:VAL:N	2.47	0.46
32:1a:134:A:N6	47:1p:25:ARG:HH12	2.13	0.46
33:1b:21:ARG:HB3	33:1b:39:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:110:ASN:HD22	34:1c:140:ARG:HB3	1.80	0.46
34:1c:150:LYS:HG3	34:1c:169:ALA:HB2	1.96	0.46
43:1l:39:VAL:HG11	43:1l:41:ARG:HH11	1.80	0.46
43:1l:70:ILE:HD13	43:1l:77:LEU:HD12	1.97	0.46
54:1w:18:G:HO2'	54:1w:57:G:H22	1.54	0.46
1:2A:884:C:H3'	1:2A:885:C:H6	1.79	0.46
1:2A:1913:A:N6	54:2w:38:A:H5'	2.31	0.46
1:2A:2377:A:H2'	1:2A:2378:A:C8	2.51	0.46
1:2A:2390:U:P	30:28:35:GLN:HE22	2.38	0.46
1:2A:2549:G:H2'	1:2A:2550:G:H8	1.81	0.46
1:2A:2722:G:H5'	13:2R:4:LEU:HD12	1.98	0.46
19:2X:26:TYR:CE1	19:2X:89:ILE:HB	2.51	0.46
32:2a:73:G:N2	32:2a:96:U:O2	2.39	0.46
32:2a:1126:U:O2	41:2j:40:LEU:HD21	2.15	0.46
32:2a:1259:C:C4	32:2a:1260:C:H1'	2.50	0.46
35:2d:173:TRP:NE1	35:2d:189:PRO:HG3	2.29	0.46
40:2i:58:HIS:H	40:2i:58:HIS:CD2	2.32	0.46
40:2i:78:LYS:HE3	40:2i:101:PHE:CE1	2.50	0.46
1:1A:11:G:H2'	1:1A:12:U:H5"	1.96	0.46
1:1A:530:G:N1	1:1A:2023:G:OP1	2.33	0.46
1:1A:1430:C:H2'	1:1A:1431:U:C6	2.50	0.46
3:1D:9:TYR:CE1	3:1D:13:ARG:HG3	2.50	0.46
6:1G:25:TYR:CZ	6:1G:32:PRO:HD3	2.50	0.46
9:1N:75:TYR:CE2	9:1N:77:GLY:HA2	2.50	0.46
15:1T:105:LEU:HD22	15:1T:109:GLU:HB3	1.95	0.46
26:14:65:ASP:O	26:14:67:TYR:N	2.41	0.46
30:18:23:VAL:HG11	30:18:47:LYS:HD3	1.96	0.46
32:1a:256:U:H2'	32:1a:257:G:O4'	2.15	0.46
32:1a:826:C:H2'	32:1a:827:U:C6	2.50	0.46
32:1a:1030(B):C:O2	32:1a:1030(B):C:H2'	2.14	0.46
32:1a:1031:G:H2'	32:1a:1032:G:C8	2.50	0.46
32:1a:1092:A:H5"	38:1g:4:ARG:CZ	2.45	0.46
32:1a:1458:G:OP1	51:1t:35:THR:OG1	2.30	0.46
32:1a:1468:A:H8	32:1a:1468:A:O5'	1.98	0.46
1:2A:524:U:H2'	1:2A:525:U:C6	2.50	0.46
1:2A:581:C:H2'	1:2A:582:G:C8	2.51	0.46
1:2A:947:G:H2'	1:2A:948:G:C8	2.50	0.46
1:2A:1149:G:H2'	1:2A:1150:C:C6	2.49	0.46
1:2A:1983:C:H4'	1:2A:2606:C:H4'	1.97	0.46
1:2A:2889:C:H2'	1:2A:2891:G:O4'	2.16	0.46
4:2E:182:LEU:HD21	4:2E:198:VAL:HG11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:64:ILE:HG21	5:2F:78:ILE:HG23	1.96	0.46
6:2G:106:LEU:HA	6:2G:110:ALA:HB3	1.97	0.46
11:2P:67:MET:HE3	11:2P:67:MET:HB2	1.84	0.46
21:2Z:91:LEU:HD12	21:2Z:96:VAL:HG21	1.96	0.46
28:26:40:CYS:O	28:26:44:ARG:N	2.49	0.46
32:2a:1053:G:N7	32:2a:1199:U:H3'	2.30	0.46
35:2d:172:PRO:HD2	35:2d:173:TRP:CZ3	2.51	0.46
37:2f:69:GLU:O	37:2f:72:VAL:HG12	2.15	0.46
39:2h:82:HIS:NE2	39:2h:84:ARG:HG2	2.31	0.46
41:2j:7:LYS:HD2	41:2j:9:ARG:NH2	2.30	0.46
48:2q:10:VAL:HG13	48:2q:19:VAL:HB	1.98	0.46
54:2w:6:G:O6	54:2w:67:C:N3	2.48	0.46
1:1A:1210:A:H5"	1:1A:1212:G:O4'	2.15	0.46
1:1A:1698:A:C8	1:1A:1700:A:O4'	2.67	0.46
1:1A:2126:A:N3	1:1A:2127:G:H1'	2.31	0.46
1:1A:2284:C:OP1	28:16:3:SER:OG	2.24	0.46
1:1A:2292:C:H2'	1:1A:2293:C:H6	1.80	0.46
6:1G:16:ARG:O	6:1G:20:ILE:HG13	2.16	0.46
6:1G:77:ILE:HD12	6:1G:82:LEU:HD12	1.97	0.46
8:1I:117:GLU:HG3	8:1I:118:LYS:H	1.81	0.46
15:1T:127:ALA:O	15:1T:128:GLU:HG2	2.14	0.46
21:1Z:1:MET:HA	21:1Z:2:GLU:HA	1.62	0.46
32:1a:452:A:H4'	47:1p:72:ARG:NH1	2.29	0.46
32:1a:567:G:N3	61:1a:1965:HOH:O	2.36	0.46
32:1a:615:C:H2'	32:1a:616:G:O4'	2.15	0.46
42:1k:20:TYR:CZ	42:1k:83:ILE:HD12	2.50	0.46
50:1s:12:ASP:HB3	50:1s:14:HIS:CD2	2.51	0.46
50:1s:12:ASP:OD1	50:1s:37:ARG:NH2	2.49	0.46
51:1t:92:LEU:HD23	51:1t:92:LEU:HA	1.79	0.46
1:2A:567:A:H4'	1:2A:808:G:OP1	2.15	0.46
1:2A:2123:G:O6	1:2A:2175:C:N3	2.48	0.46
10:2O:98:VAL:HG22	10:2O:118:ALA:HA	1.98	0.46
29:27:46:VAL:HG13	29:27:48:LYS:NZ	2.31	0.46
32:2a:544:G:P	35:2d:62:GLN:HE21	2.38	0.46
32:2a:596:C:OP2	32:2a:596:C:H3'	2.16	0.46
32:2a:646:U:H2'	32:2a:647:C:C6	2.50	0.46
32:2a:976:G:P	45:2n:32:SER:H	2.38	0.46
32:2a:1030(A):G:N3	32:2a:1030(C):G:H8	2.12	0.46
32:2a:1164:G:H2'	32:2a:1165:C:C6	2.51	0.46
32:2a:1168:A:H2'	32:2a:1169:A:C8	2.50	0.46
40:2i:8:GLY:HA3	40:2i:76:ALA:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2i:28:VAL:HA	40:2i:63:ILE:O	2.15	0.46
42:2k:32:ILE:HG21	42:2k:72:ALA:HB2	1.97	0.46
1:1A:271(E):U:H2'	1:1A:271(F):C:C6	2.50	0.46
1:1A:272(F):C:H2'	1:1A:272(G):C:H6	1.81	0.46
1:1A:628:G:H2'	1:1A:629:G:H8	1.79	0.46
1:1A:642:G:H5"	61:1A:6008:HOH:O	2.15	0.46
1:1A:729:G:C5	3:1D:208:LYS:HB2	2.51	0.46
1:1A:1790:C:H5"	1:1A:1791:A:OP1	2.16	0.46
1:1A:2108:C:H2'	1:1A:2109:U:C6	2.50	0.46
1:1A:2406:U:H2'	1:1A:2406:U:OP2	2.16	0.46
6:1G:126:ASP:C	6:1G:128:ARG:H	2.23	0.46
7:1H:3:ARG:NH1	7:1H:4:ILE:H	2.07	0.46
21:1Z:132:ASN:ND2	21:1Z:160:GLY:HA3	2.31	0.46
24:12:51:ARG:O	24:12:55:ARG:HG2	2.16	0.46
26:14:62:ARG:C	26:14:63:TYR:CG	2.94	0.46
32:1a:310:G:H5'	47:1p:31:LYS:HB2	1.97	0.46
33:1b:85:ALA:O	33:1b:90:MET:N	2.48	0.46
41:1j:54:PHE:CE2	41:1j:55:LYS:HD2	2.50	0.46
52:1u:18:TYR:CG	52:1u:24:ARG:HD3	2.51	0.46
1:2A:323:G:HO2'	1:2A:1205:U:H3	0.64	0.46
1:2A:894:C:O2'	1:2A:895:U:H5"	2.15	0.46
1:2A:1438:U:H2'	1:2A:1439:A:H8	1.79	0.46
1:2A:2019:A:N7	27:25:9:LYS:HE2	2.30	0.46
1:2A:2532:G:H2'	1:2A:2533:A:C8	2.50	0.46
6:2G:111:LEU:HD21	6:2G:120:LEU:HD11	1.98	0.46
7:2H:51:ARG:NH2	7:2H:53:GLU:OE2	2.49	0.46
18:2W:8:ARG:NH2	18:2W:9:TYR:OH	2.49	0.46
23:21:32:LYS:O	61:21:201:HOH:O	2.21	0.46
32:2a:473:G:C2	32:2a:474:G:C5	3.04	0.46
32:2a:1025:U:O2'	32:2a:1026:G:H5"	2.16	0.46
36:2e:111:GLU:C	36:2e:113:ALA:H	2.24	0.46
56:2y:70:G:H2'	56:2y:71:G:C8	2.51	0.46
1:1A:27:G:C2	1:1A:512:G:N3	2.84	0.46
1:1A:686:G:N2	1:1A:788:A:H61	2.14	0.46
1:1A:2158:A:N3	1:1A:2159:G:H1'	2.31	0.46
1:1A:2438:U:OP1	61:1A:4289:HOH:O	2.20	0.46
10:1O:49:ARG:NH1	32:1a:1422:G:O3'	2.49	0.46
10:1O:98:VAL:HG22	10:1O:118:ALA:HA	1.98	0.46
16:1U:16:LYS:HB3	16:1U:16:LYS:HE2	1.74	0.46
32:1a:22:G:H4'	32:1a:885:G:C8	2.51	0.46
32:1a:146:G:C2	32:1a:147:G:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:327:A:H1'	32:1a:329:A:O4'	2.15	0.46
32:1a:673:G:H5"	37:1f:87:ARG:NH1	2.31	0.46
32:1a:1479:C:H2'	32:1a:1480:G:C8	2.50	0.46
36:1e:79:GLU:HG3	36:1e:93:PRO:HD2	1.97	0.46
1:2A:30:G:H2'	1:2A:31:C:C6	2.51	0.46
1:2A:103:A:H5'	24:22:3:LEU:HD11	1.97	0.46
1:2A:699:A:H2'	1:2A:700:G:O4'	2.16	0.46
1:2A:1445(A):C:H2'	1:2A:1446:C:H6	1.81	0.46
1:2A:1777:U:H2'	1:2A:1778:U:C6	2.51	0.46
10:2O:77:ILE:HD12	15:2T:74:ARG:HD2	1.97	0.46
16:2U:105:VAL:HG22	17:2V:45:THR:HG23	1.98	0.46
20:2Y:8:LYS:HD3	20:2Y:97:ARG:NH1	2.31	0.46
22:20:10:THR:HG22	22:20:12:ASN:N	2.26	0.46
32:2a:130:A:H1'	32:2a:263:A:O2'	2.16	0.46
32:2a:735:C:OP1	49:2r:68:LYS:NZ	2.49	0.46
32:2a:1226:C:H6	44:2m:103:THR:HB	1.79	0.46
32:2a:1517:G:H3'	32:2a:1518:MA6:H8	1.97	0.46
33:2b:74:LYS:HD2	33:2b:166:ASP:HB2	1.97	0.46
40:2i:48:GLU:HG2	40:2i:101:PHE:HZ	1.81	0.46
1:1A:271(L):U:OP1	8:1I:50:ARG:NH1	2.49	0.46
1:1A:363:G:H2'	1:1A:363(A):A:C8	2.50	0.46
1:1A:657:U:H2'	1:1A:658:C:C6	2.51	0.46
1:1A:848:G:O6	1:1A:928:G:H2'	2.15	0.46
1:1A:1508:A:H4'	1:1A:1509(A):A:C5	2.50	0.46
1:1A:2238:G:N3	1:1A:2238:G:H2'	2.30	0.46
1:1A:2313:C:H4'	6:1G:91:ARG:HG3	1.98	0.46
1:1A:2627:G:N2	1:1A:2777:G:OP2	2.47	0.46
3:1D:71:ASP:CB	3:1D:103:ARG:HH12	2.29	0.46
6:1G:43:LEU:O	6:1G:45:GLU:N	2.43	0.46
13:1R:98:LEU:HD12	27:15:57:VAL:HG11	1.98	0.46
14:1S:3:ARG:HD2	14:1S:4:LEU:O	2.15	0.46
14:1S:39:ILE:HB	14:1S:49:VAL:HG13	1.96	0.46
21:1Z:29:TYR:OH	21:1Z:87:ASP:OD2	2.29	0.46
32:1a:662:G:H2'	32:1a:663:A:C8	2.50	0.46
32:1a:1212:U:H5"	32:1a:1213:A:O5'	2.16	0.46
32:1a:1318:A:H5"	50:1s:3:ARG:NH1	2.31	0.46
32:1a:1388:C:H2'	32:1a:1389:C:C6	2.51	0.46
34:1c:14:ILE:HD13	34:1c:178:LEU:HD23	1.96	0.46
46:1o:74:ASP:OD2	46:1o:77:ARG:HB2	2.15	0.46
50:1s:20:LEU:HD23	50:1s:23:ASN:HD22	1.80	0.46
1:2A:57:C:H2'	1:2A:58:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2412:A:H2'	1:2A:2413:G:O4'	2.16	0.46
1:2A:2494:G:OP2	61:2A:3980:HOH:O	2.21	0.46
1:2A:2651:C:H42	1:2A:2669:G:H1	1.63	0.46
7:2H:13:LYS:HA	7:2H:14:GLY:HA2	1.59	0.46
12:2Q:10:ARG:NH1	12:2Q:11:LYS:HE2	2.30	0.46
32:2a:1029:C:C4	32:2a:1032:G:C2	3.04	0.46
32:2a:1062:U:H2'	32:2a:1063:C:C6	2.51	0.46
32:2a:1203:C:H2'	32:2a:1204:A:H8	1.81	0.46
32:2a:1212:U:H5'	32:2a:1213:A:N9	2.31	0.46
33:2b:213:LEU:O	33:2b:217:ARG:HG2	2.15	0.46
35:2d:111:ALA:HA	35:2d:116:GLN:HE21	1.81	0.46
35:2d:180:GLY:C	35:2d:181:MET:HG2	2.39	0.46
44:2m:121:LYS:HE3	44:2m:121:LYS:HB3	1.72	0.46
55:2x:20:U:H5"	55:2x:21:A:OP2	2.15	0.46
1:1A:321:G:C4	1:1A:341:G:H4'	2.50	0.46
1:1A:2354:G:O2'	61:1A:4237:HOH:O	2.09	0.46
6:1G:59:GLU:CD	6:1G:153:ARG:HH21	2.24	0.46
9:1N:96:GLU:H	9:1N:96:GLU:CD	2.22	0.46
24:12:69:ARG:NH1	24:12:69:ARG:HB3	2.30	0.46
32:1a:302:G:O2'	32:1a:556:C:H5"	2.16	0.46
32:1a:997:U:H3	32:1a:1044:A:N6	2.14	0.46
32:1a:1049:U:OP1	45:1n:3:ARG:HB3	2.16	0.46
32:1a:1343:G:H1'	40:1i:121:ARG:NH1	2.30	0.46
36:1e:18:ARG:HH11	36:1e:27:ARG:HH12	1.63	0.46
42:1k:58:PRO:O	42:1k:93:GLN:HG2	2.16	0.46
47:1p:38:TYR:CE2	47:1p:50:LYS:HB2	2.50	0.46
54:1w:54:5MU:H2'	54:1w:55:PSU:O4'	2.16	0.46
1:2A:823:G:O2'	1:2A:824:A:H5'	2.16	0.46
1:2A:1759:A:H4'	1:2A:2715:C:O4'	2.16	0.46
1:2A:1801:G:OP2	3:2D:154:LYS:NZ	2.38	0.46
1:2A:2508:G:O3'	1:2A:2555:U:H5'	2.16	0.46
7:2H:20:ALA:HB3	7:2H:23:ARG:HG3	1.98	0.46
32:2a:22:G:H4'	32:2a:885:G:C8	2.51	0.46
32:2a:776:G:N2	32:2a:802:A:OP2	2.40	0.46
32:2a:1057:G:H4'	34:2c:197:GLY:H	1.81	0.46
32:2a:1166:G:H2'	32:2a:1169:A:OP2	2.15	0.46
37:2f:19:LEU:HD11	37:2f:59:TYR:CD2	2.51	0.46
42:2k:18:ARG:HB2	42:2k:33:THR:OG1	2.16	0.46
56:2y:39:PSU:H2'	56:2y:40:C:O4'	2.16	0.46
1:1A:375:C:H2'	1:1A:376:C:C6	2.51	0.46
1:1A:1082:U:C4	1:1A:1086:A:N1	2.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2439:A:H5'	1:1A:2439:A:C8	2.50	0.46
1:1A:2563:U:H4'	10:1O:28:SER:HA	1.98	0.46
1:1A:2752:C:O5'	1:1A:2752:C:H6	1.99	0.46
1:1A:2848:G:H1'	1:1A:2867:G:N2	2.31	0.46
2:1B:48:A:H4'	14:1S:95:HIS:HD2	1.80	0.46
3:1D:125:ILE:HD12	3:1D:137:PRO:HD3	1.98	0.46
4:1E:16:ARG:NH1	4:1E:171:GLU:OE2	2.45	0.46
7:1H:121:ILE:HG13	7:1H:144:VAL:HG21	1.98	0.46
12:1Q:111:GLU:O	12:1Q:115:MET:HG2	2.16	0.46
32:1a:204:U:P	32:1a:204:U:H3'	2.56	0.46
32:1a:562:C:H1'	43:1l:15:ARG:HB3	1.97	0.46
32:1a:870:U:H4'	32:1a:871:U:H5"	1.97	0.46
32:1a:995:C:H1'	45:1n:4:LYS:HE2	1.98	0.46
33:1b:42:ILE:HG21	33:1b:202:PRO:O	2.15	0.46
33:1b:162:ILE:O	33:1b:185:ILE:HG12	2.15	0.46
40:1i:11:LYS:C	40:1i:13:ALA:H	2.24	0.46
52:1u:5:ASP:O	52:1u:11:GLY:HA3	2.16	0.46
55:1x:23:C:H2'	55:1x:24:U:C6	2.51	0.46
1:2A:322:A:OP2	5:2F:169:ASN:HB2	2.15	0.46
1:2A:530:G:C5	1:2A:2022:U:H5"	2.51	0.46
1:2A:706:A:H2'	1:2A:707:G:O4'	2.15	0.46
1:2A:729:G:OP1	3:2D:12:SER:HB2	2.15	0.46
1:2A:1799:G:N7	3:2D:179:SER:OG	2.46	0.46
1:2A:2135:A:H2'	1:2A:2136:C:H5"	1.98	0.46
1:2A:2250:G:O2'	1:2A:2496:C:OP1	2.32	0.46
2:2B:4:C:H42	2:2B:117:G:H1	1.63	0.46
2:2B:75:G:H1	21:2Z:73:GLN:HE22	1.64	0.46
32:2a:302:G:N3	32:2a:556:C:H4'	2.31	0.46
35:2d:12:CYS:HB2	60:2d:303:SF4:S2	2.56	0.46
38:2g:114:ARG:HB2	38:2g:115:ARG:NH2	2.30	0.46
1:1A:652(U):G:C2	1:1A:652(V):C:C2	3.04	0.46
1:1A:1322:A:N1	1:1A:1333:C:O2'	2.43	0.46
1:1A:2273:A:H2'	1:1A:2274:A:C8	2.51	0.46
1:1A:2474:C:H5"	1:1A:2475:C:OP2	2.16	0.46
4:1E:30:PRO:HD3	4:1E:180:ASN:ND2	2.31	0.46
32:1a:300:A:O2'	32:1a:564:C:N3	2.47	0.46
32:1a:1182:G:H5'	32:1a:1184:G:H5'	1.98	0.46
32:1a:1350:A:O2'	38:1g:33:ASP:OD1	2.31	0.46
38:1g:136:LYS:O	38:1g:140:ASP:HB2	2.15	0.46
40:1i:3:GLN:HE21	40:1i:20:ARG:CZ	2.28	0.46
43:1l:53:ARG:HB3	43:1l:69:TYR:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:118:A:N3	1:2A:178:G:H1'	2.31	0.46
1:2A:839:U:H2'	1:2A:840:C:C6	2.51	0.46
1:2A:1467:C:C5	1:2A:1546:C:H2'	2.51	0.46
1:2A:1768:U:H2'	1:2A:1769:G:H8	1.81	0.46
1:2A:2023:G:H4'	1:2A:2617:C:O3'	2.16	0.46
1:2A:2191:G:H2'	1:2A:2192:G:O4'	2.16	0.46
1:2A:2319:G:O6	14:2S:4:LEU:HD12	2.16	0.46
1:2A:2561:A:H4'	10:2O:22:ILE:HD11	1.98	0.46
2:2B:11:C:OP2	2:2B:12:C:N4	2.41	0.46
10:2O:78:ARG:HG2	15:2T:73:GLU:HB2	1.97	0.46
12:2Q:1:MET:HG2	12:2Q:44:ALA:HB1	1.98	0.46
12:2Q:20:ALA:HB2	21:2Z:79:ARG:NE	2.30	0.46
30:28:62:LEU:HB3	30:28:65:GLU:HG3	1.98	0.46
32:2a:224:C:H2'	32:2a:225:C:C6	2.51	0.46
32:2a:333:G:H4'	51:2t:16:HIS:CE1	2.51	0.46
32:2a:1042:G:H2'	32:2a:1043:C:O4'	2.16	0.46
32:2a:1298:C:H4'	32:2a:1299:A:C4	2.51	0.46
33:2b:218:ALA:O	33:2b:222:ILE:HG23	2.14	0.46
36:2e:139:LEU:O	36:2e:142:LEU:HB2	2.15	0.46
37:2f:24:GLU:O	37:2f:28:ARG:N	2.37	0.46
37:2f:50:TYR:CE2	49:2r:77:GLY:HA2	2.51	0.46
46:2o:43:LEU:HD12	46:2o:56:LEU:HD13	1.98	0.46
50:2s:69:HIS:HB3	50:2s:73:GLU:OE1	2.16	0.46
54:2w:76:F3N:N	55:2x:76:31H:O2'	2.49	0.46
1:1A:224:G:H2'	1:1A:225:A:O4'	2.15	0.45
1:1A:807:U:OP2	11:1P:41:ARG:NH2	2.49	0.45
1:1A:908:C:OP1	12:1Q:22:LYS:HB3	2.15	0.45
1:1A:954:G:H5"	12:1Q:13:GLN:HB3	1.98	0.45
3:1D:164:GLN:OE1	3:1D:176:ARG:NH1	2.47	0.45
3:1D:274:ARG:NH1	61:1D:408:HOH:O	2.47	0.45
11:1P:6:LEU:HD23	11:1P:6:LEU:HA	1.70	0.45
22:10:43:THR:O	22:10:43:THR:HG23	2.16	0.45
32:1a:61:G:H2'	32:1a:62:U:O4'	2.16	0.45
32:1a:607:A:H2'	32:1a:608:A:C8	2.52	0.45
56:1y:22:G:H2'	56:1y:22:G:N3	2.30	0.45
1:2A:921:G:H2'	1:2A:922:U:C6	2.50	0.45
1:2A:994:C:H1'	17:2V:10:LYS:HZ3	1.80	0.45
1:2A:1169:G:N2	1:2A:1181:C:N3	2.64	0.45
1:2A:1318:C:H2'	1:2A:1319:G:O4'	2.16	0.45
1:2A:2122:U:H3	1:2A:2176:A:N6	2.14	0.45
1:2A:2305:A:H2'	1:2A:2306:C:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2378:A:H2	14:2S:17:ARG:HG2	1.81	0.45
6:2G:11:TYR:HA	6:2G:15:VAL:HB	1.98	0.45
9:2N:28:THR:HG22	9:2N:29:LYS:N	2.31	0.45
19:2X:57:LEU:HD11	19:2X:78:LYS:HE2	1.97	0.45
28:26:14:THR:HG21	28:26:50:ARG:NH1	2.30	0.45
32:2a:429:U:OP2	35:2d:36:ARG:NH2	2.48	0.45
32:2a:918:A:H2'	32:2a:919:A:O4'	2.17	0.45
32:2a:946:A:O2'	32:2a:1333:A:N3	2.43	0.45
32:2a:1004:A:C8	32:2a:1005:A:H4'	2.51	0.45
32:2a:1250:A:H4'	40:2i:68:GLY:N	2.31	0.45
32:2a:1376:U:H2'	32:2a:1377:A:C8	2.51	0.45
33:2b:27:LYS:HB2	33:2b:194:PRO:HD2	1.98	0.45
33:2b:69:LEU:HD21	33:2b:97:TRP:HZ3	1.81	0.45
39:2h:85:ARG:HD3	39:2h:87:SER:O	2.16	0.45
47:2p:28:ARG:HG2	47:2p:29:ASP:OD1	2.16	0.45
48:2q:67:LYS:O	48:2q:68:ARG:HB2	2.16	0.45
55:2x:36:U:H2'	55:2x:37:A:O4'	2.16	0.45
1:1A:2334:G:H4'	1:1A:2335:A:OP2	2.16	0.45
4:1E:9:VAL:HB	15:1T:3:ARG:HG2	1.98	0.45
15:1T:127:ALA:C	15:1T:129:ARG:N	2.74	0.45
21:1Z:48:PHE:HE1	21:1Z:71:VAL:HG11	1.80	0.45
36:1e:30:ALA:O	36:1e:45:PHE:HD1	1.99	0.45
40:1i:127:LYS:NZ	55:1x:34:C:OP2	2.47	0.45
44:1m:15:VAL:HG13	44:1m:43:THR:O	2.16	0.45
56:1y:18:G:C2	56:1y:58:A:C5	3.04	0.45
1:2A:813:U:H2'	1:2A:814:C:C6	2.51	0.45
1:2A:855:G:C6	1:2A:856:C:C4	3.04	0.45
1:2A:1278:A:H5"	13:2R:36:THR:HG22	1.98	0.45
1:2A:1622:G:C2	1:2A:1623:G:C8	3.04	0.45
10:2O:1:MET:HE3	10:2O:32:TYR:CE1	2.51	0.45
10:2O:64:ARG:NH2	10:2O:99:PHE:O	2.49	0.45
12:2Q:12:GLN:NE2	12:2Q:72:LYS:HG3	2.30	0.45
15:2T:6:LEU:O	15:2T:10:VAL:HG23	2.16	0.45
21:2Z:145:GLU:N	21:2Z:148:ASP:HB2	2.30	0.45
28:26:8:LYS:HB2	28:26:54:ILE:HG21	1.97	0.45
32:2a:269:C:H2'	32:2a:270:A:C8	2.51	0.45
32:2a:412:A:O4'	35:2d:35:ARG:NH2	2.50	0.45
32:2a:864:A:OP2	61:2a:1926:HOH:O	2.20	0.45
32:2a:923:A:OP1	36:2e:21:ALA:HB2	2.16	0.45
32:2a:949:A:C6	32:2a:950:U:C4	3.05	0.45
32:2a:1056:U:H2'	32:2a:1057:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1355:G:H2'	32:2a:1356:G:C8	2.50	0.45
34:2c:131:ARG:NH2	36:2e:50:GLU:HG3	2.31	0.45
41:2j:64:GLU:OE2	41:2j:66:ARG:NH1	2.47	0.45
43:2l:113:ARG:NE	43:2l:115:LYS:O	2.36	0.45
47:2p:8:ARG:HB3	47:2p:28:ARG:NH1	2.32	0.45
51:2t:57:ARG:HH12	51:2t:100:ILE:HD12	1.79	0.45
1:1A:740:U:H2'	1:1A:741:G:C8	2.51	0.45
1:1A:1062:G:H22	1:1A:1077:A:N6	2.13	0.45
1:1A:1587:A:H2'	1:1A:1588:C:C6	2.51	0.45
1:1A:2131:G:H5'	1:1A:2133:G:C8	2.52	0.45
1:1A:2705:A:N3	61:1A:4434:HOH:O	2.36	0.45
2:1B:89:G:C6	2:1B:90:A:C6	3.05	0.45
32:1a:502:G:H2'	32:1a:503:C:O4'	2.16	0.45
32:1a:742:G:H2'	32:1a:743:U:O4'	2.16	0.45
32:1a:1280:A:H5'	41:1j:41:PRO:HD2	1.98	0.45
36:1e:79:GLU:HG2	36:1e:92:LYS:HG3	1.97	0.45
44:1m:15:VAL:HG11	44:1m:48:LEU:HD21	1.98	0.45
48:1q:45:HIS:HB2	48:1q:65:ILE:HD13	1.98	0.45
54:1w:25:C:H2'	54:1w:26:A:H8	1.81	0.45
1:2A:58:G:O2'	1:2A:73:A:N1	2.41	0.45
1:2A:108:U:H2'	1:2A:109:G:C8	2.52	0.45
1:2A:1364:G:OP2	23:21:3:LYS:HG3	2.17	0.45
1:2A:1466:G:O2'	1:2A:1546:C:O2'	2.22	0.45
20:2Y:94:LYS:NZ	61:2Y:601:HOH:O	2.49	0.45
32:2a:403:C:H5"	35:2d:136:PRO:HD2	1.97	0.45
32:2a:661:G:H1	32:2a:744:C:H42	1.65	0.45
32:2a:678:U:H2'	32:2a:679:C:C6	2.51	0.45
32:2a:922:G:N3	32:2a:1398:A:H2	2.14	0.45
32:2a:933:G:O6	38:2g:3:ARG:NH2	2.50	0.45
34:2c:52:LEU:HD11	34:2c:55:VAL:HG22	1.98	0.45
35:2d:127:THR:HG22	35:2d:132:ARG:HA	1.98	0.45
36:2e:68:GLU:OE2	36:2e:70:PRO:HG3	2.17	0.45
39:2h:10:LEU:HD22	39:2h:83:ILE:HD11	1.99	0.45
39:2h:120:THR:H	39:2h:123:GLU:HB2	1.82	0.45
44:2m:80:ARG:NH2	50:2s:65:ASN:O	2.50	0.45
1:1A:220:G:O2'	1:1A:233:A:N3	2.42	0.45
1:1A:1092:C:H42	1:1A:1099:G:H1	1.64	0.45
1:1A:2134:A:H2'	1:1A:2135:A:N7	2.31	0.45
1:1A:2751:G:C2	7:1H:2:SER:HB3	2.50	0.45
5:1F:160:ASN:ND2	5:1F:163:VAL:HG23	2.31	0.45
20:1Y:9:LYS:HA	20:1Y:10:GLY:HA2	1.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:18:4:MET:HE3	30:18:63:PRO:HG3	1.99	0.45
32:1a:92:C:H2'	32:1a:93:G:H8	1.82	0.45
32:1a:743:U:H2'	32:1a:744:C:C6	2.52	0.45
32:1a:814:A:H2'	32:1a:816:A:H5'	1.98	0.45
32:1a:922:G:C6	32:1a:923:A:C6	3.04	0.45
1:2A:83:G:N1	1:2A:102:G:O2'	2.41	0.45
1:2A:333:G:N7	61:2A:4088:HOH:O	2.35	0.45
1:2A:645:C:N4	61:2A:4225:HOH:O	2.49	0.45
1:2A:884:C:H3'	1:2A:885:C:C6	2.51	0.45
1:2A:1037:G:H2'	1:2A:1038:C:O4'	2.16	0.45
1:2A:1210:A:H5'	1:2A:1210:A:N3	2.32	0.45
1:2A:1805:U:O2	3:2D:50:THR:HB	2.16	0.45
1:2A:2139:C:H2'	1:2A:2140:C:O4'	2.16	0.45
1:2A:2184:G:O2'	1:2A:2185:C:H5'	2.17	0.45
3:2D:8:PRO:HB3	3:2D:14:ARG:HG2	1.99	0.45
5:2F:32:LEU:HD22	5:2F:112:MET:SD	2.57	0.45
5:2F:154:VAL:HG22	5:2F:191:ARG:HB2	1.98	0.45
10:2O:120:GLU:HB2	15:2T:68:TYR:CE2	2.50	0.45
19:2X:35:THR:HG22	19:2X:37:THR:N	2.30	0.45
21:2Z:17:ALA:O	21:2Z:21:ALA:N	2.34	0.45
32:2a:113:G:O2'	32:2a:354:G:H5'	2.15	0.45
32:2a:955:U:OP1	44:2m:120:LYS:NZ	2.26	0.45
32:2a:1511:G:H2'	32:2a:1512:U:O4'	2.15	0.45
33:2b:91:PRO:HA	33:2b:151:GLY:O	2.16	0.45
34:2c:159:GLY:HA2	34:2c:193:TYR:CD1	2.51	0.45
39:2h:6:ILE:HB	39:2h:85:ARG:HE	1.80	0.45
44:2m:10:PRO:HB2	44:2m:13:LYS:HD2	1.98	0.45
54:2w:8:4SU:N3	54:2w:15:G:O6	2.49	0.45
55:2x:39:C:H2'	55:2x:40:C:H6	1.81	0.45
1:1A:251:A:C5	1:1A:252:G:H1'	2.51	0.45
1:1A:614(C):A:C4	5:1F:180:GLY:HA2	2.52	0.45
1:1A:753:C:H2'	1:1A:754:C:H6	1.82	0.45
1:1A:1116:C:H5'	1:1A:1117:G:OP2	2.15	0.45
1:1A:1297:C:OP1	61:1A:4293:HOH:O	2.21	0.45
1:1A:2492:U:H2'	1:1A:2493:U:H6	1.82	0.45
2:1B:55:U:H2'	2:1B:56:G:O4'	2.16	0.45
8:1I:49:ALA:HA	8:1I:52:ARG:HH21	1.81	0.45
32:1a:78:G:C6	32:1a:91:C:N4	2.84	0.45
34:1c:108:ASN:HB3	34:1c:111:LEU:HG	1.98	0.45
35:1d:11:LEU:HD23	35:1d:66:ARG:HB3	1.98	0.45
38:1g:150:ALA:HB3	42:1k:54:ARG:HH21	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:1k:43:SER:HA	42:1k:47:VAL:HG21	1.97	0.45
56:1y:22:G:N7	56:1y:46:7MG:N2	2.59	0.45
1:2A:309:G:N3	1:2A:329:G:O2'	2.43	0.45
1:2A:459:U:H4'	29:27:40:TRP:CZ3	2.51	0.45
1:2A:878:A:H61	1:2A:899:A:H1'	1.81	0.45
1:2A:921:G:H4'	1:2A:2269:A:C5	2.52	0.45
1:2A:1265:A:N6	1:2A:2013:A:H5"	2.31	0.45
1:2A:1453:U:O2'	1:2A:1455:G:N7	2.49	0.45
1:2A:1913:A:C6	54:2w:38:A:H5'	2.51	0.45
1:2A:2176:A:H2'	1:2A:2177:C:C6	2.52	0.45
1:2A:2506:U:O2	54:2w:76:F3N:HD2	2.16	0.45
3:2D:130:ALA:HA	3:2D:191:ALA:O	2.16	0.45
6:2G:122:PRO:HB3	6:2G:170:ARG:NH2	2.32	0.45
14:2S:26:LEU:HD13	14:2S:85:VAL:HG11	1.99	0.45
27:25:51:TYR:CE2	27:25:56:LYS:HD3	2.51	0.45
32:2a:227:G:H2'	32:2a:228:A:C8	2.52	0.45
32:2a:1423:G:H2'	32:2a:1424:C:H6	1.82	0.45
34:2c:9:GLY:HA3	45:2n:49:HIS:HA	1.98	0.45
34:2c:85:ARG:O	34:2c:89:GLU:N	2.50	0.45
36:2e:41:VAL:HG23	36:2e:67:VAL:HG12	1.99	0.45
44:2m:22:ILE:HB	44:2m:25:ILE:HD12	1.98	0.45
50:2s:80:TYR:C	50:2s:82:GLY:H	2.25	0.45
1:1A:530:G:H4'	1:1A:531:C:OP1	2.15	0.45
1:1A:1091:G:H2'	1:1A:1092:C:O4'	2.16	0.45
1:1A:1702:G:H2'	1:1A:1703:G:O4'	2.16	0.45
1:1A:1803:A:H2'	1:1A:1804:C:O4'	2.17	0.45
1:1A:2108:C:H2'	1:1A:2109:U:H6	1.81	0.45
6:1G:114:ILE:HB	6:1G:117:PHE:HB2	1.98	0.45
8:1I:93:THR:H	8:1I:96:ASP:HB2	1.80	0.45
10:1O:2:ILE:HB	10:1O:33:ALA:HB3	1.99	0.45
12:1Q:10:ARG:HH11	12:1Q:11:LYS:HE2	1.81	0.45
32:1a:51:A:N7	32:1a:114:U:O2'	2.45	0.45
32:1a:966:M2G:HM13	32:1a:967:5MC:H1'	1.97	0.45
32:1a:985:C:H2'	32:1a:986:A:H8	1.81	0.45
35:1d:158:ILE:H	35:1d:158:ILE:HG13	1.54	0.45
1:2A:1445(A):C:H2'	1:2A:1446:C:C6	2.52	0.45
1:2A:2185:C:H2'	1:2A:2186:G:O4'	2.17	0.45
12:2Q:75:THR:HG21	12:2Q:87:LYS:NZ	2.32	0.45
16:2U:79:PHE:CZ	16:2U:83:LEU:HD11	2.52	0.45
16:2U:109:LEU:HD23	16:2U:109:LEU:HA	1.77	0.45
20:2Y:9:LYS:HA	20:2Y:10:GLY:HA2	1.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:266:G:O2'	32:2a:267:C:OP2	2.29	0.45
32:2a:340:U:H2'	32:2a:341:C:C6	2.50	0.45
32:2a:417:C:H2'	32:2a:418:C:H6	1.82	0.45
32:2a:438:G:H4'	35:2d:123:HIS:ND1	2.32	0.45
32:2a:441:A:OP2	32:2a:441:A:H8	2.00	0.45
32:2a:473:G:H2'	32:2a:474:G:H8	1.82	0.45
32:2a:1442:G:H2'	32:2a:1442:G:N3	2.29	0.45
42:2k:122:LYS:HB3	42:2k:122:LYS:HE2	1.78	0.45
1:1A:245:G:O5'	11:1P:73:GLY:HA2	2.17	0.45
1:1A:1501:C:O4'	3:1D:100:GLY:HA2	2.17	0.45
1:1A:1514:U:O2'	1:1A:1558:A:OP2	2.13	0.45
1:1A:2065:C:H2'	1:1A:2066:C:C6	2.51	0.45
1:1A:2287:A:O2'	1:1A:2288:A:H3'	2.17	0.45
1:1A:2791:C:H2'	1:1A:2792:G:C8	2.52	0.45
2:1B:29:A:O2'	2:1B:58:A:N1	2.47	0.45
21:1Z:93:ASP:OD1	21:1Z:94:GLU:N	2.50	0.45
21:1Z:99:TYR:HA	21:1Z:124:ILE:O	2.16	0.45
32:1a:262:A:H2'	32:1a:263:A:C8	2.52	0.45
32:1a:507:C:OP2	32:1a:508:C:O2'	2.24	0.45
32:1a:768:A:OP1	32:1a:804:U:H4'	2.17	0.45
34:1c:3:ASN:OD1	34:1c:3:ASN:N	2.50	0.45
38:1g:73:MET:HE1	38:1g:88:PRO:HB2	1.97	0.45
41:1j:5:ARG:HD3	41:1j:71:LEU:HD11	1.98	0.45
51:1t:47:GLY:N	51:1t:48:LYS:HB2	2.32	0.45
51:1t:83:ARG:HA	51:1t:86:ARG:NH1	2.30	0.45
56:1y:62:C:H2'	56:1y:63:G:H8	1.82	0.45
1:2A:31:C:H5"	1:2A:1239:G:OP1	2.17	0.45
1:2A:71:A:H5"	1:2A:73:A:N9	2.32	0.45
1:2A:1029:A:N1	1:2A:2465:C:O2'	2.46	0.45
1:2A:1034:G:H5'	31:29:18:ARG:HD3	1.99	0.45
1:2A:1197:G:H2'	1:2A:1198:U:C6	2.52	0.45
1:2A:1412:A:H2'	1:2A:1413:G:C8	2.50	0.45
1:2A:1582:C:H2'	1:2A:1583:A:H8	1.82	0.45
1:2A:1999:C:H2'	1:2A:2000:G:O4'	2.17	0.45
1:2A:2095:C:H2'	1:2A:2096:U:O4'	2.16	0.45
1:2A:2371:G:O2'	28:26:46:HIS:ND1	2.41	0.45
1:2A:2412:A:C2	1:2A:2413:G:H1'	2.51	0.45
2:2B:14:U:O4'	2:2B:107:G:N2	2.48	0.45
3:2D:85:ASP:HB2	3:2D:92:ILE:HD13	1.99	0.45
4:2E:15:PHE:CD1	15:2T:81:PRO:HD2	2.51	0.45
8:2I:62:LYS:HE2	8:2I:133:HIS:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2P:124:LYS:HA	11:2P:144:GLU:HB3	1.97	0.45
18:2W:21:VAL:CG1	18:2W:74:ALA:HB1	2.46	0.45
32:2a:443:C:H2'	32:2a:444:C:H6	1.82	0.45
32:2a:472:A:H4'	47:2p:80:PHE:O	2.17	0.45
32:2a:588:G:OP1	61:2a:1927:HOH:O	2.21	0.45
32:2a:976:G:OP2	32:2a:1358:U:O2'	2.29	0.45
32:2a:1228:C:H2'	32:2a:1229:A:C8	2.51	0.45
32:2a:1264:C:C4	32:2a:1272:G:O6	2.70	0.45
56:2y:37:MIA:H2'	56:2y:38:A:C8	2.52	0.45
1:1A:826:U:H2'	1:1A:828:U:O4'	2.17	0.45
1:1A:1800:C:OP2	3:1D:183:ARG:NH2	2.50	0.45
1:1A:2031:A:C6	1:1A:2498:C:H1'	2.52	0.45
3:1D:77:ALA:HA	3:1D:97:TYR:HA	1.98	0.45
3:1D:145:VAL:HG11	3:1D:175:LEU:HD11	1.98	0.45
10:1O:14:THR:HG21	10:1O:86:ILE:HB	1.97	0.45
13:1R:44:LEU:HD22	13:1R:48:VAL:HG23	1.98	0.45
21:1Z:102:LEU:HB2	21:1Z:122:ARG:O	2.16	0.45
32:1a:474:G:H5'	32:1a:475:G:OP2	2.16	0.45
32:1a:670:G:H2'	32:1a:671:G:O4'	2.16	0.45
32:1a:679:C:H2'	32:1a:680:C:C6	2.52	0.45
32:1a:756:C:H2'	32:1a:757:U:O4'	2.17	0.45
32:1a:1171:G:H2'	32:1a:1172:C:C6	2.51	0.45
32:1a:1530:G:H4'	32:1a:1530:G:OP1	2.17	0.45
34:1c:131:ARG:HH21	36:1e:50:GLU:HG3	1.81	0.45
49:1r:22:VAL:HA	49:1r:25:THR:OG1	2.16	0.45
1:2A:718:A:H2'	1:2A:719:C:O4'	2.17	0.45
1:2A:1388:G:H2'	1:2A:1389:G:C8	2.50	0.45
1:2A:1933:G:H8	1:2A:1933:G:O5'	1.99	0.45
1:2A:2558:C:H2'	1:2A:2559:C:O4'	2.17	0.45
2:2B:41:U:H5	6:2G:70:VAL:N	2.15	0.45
7:2H:3:ARG:HG2	7:2H:6:ARG:HE	1.82	0.45
20:2Y:70:SER:C	20:2Y:72:VAL:H	2.25	0.45
28:26:33:LYS:HA	28:26:51:GLU:HG2	1.98	0.45
32:2a:114:U:H1'	32:2a:353:A:H1'	1.99	0.45
32:2a:357:G:OP1	32:2a:367:U:H5"	2.16	0.45
32:2a:419:C:OP1	32:2a:513:C:O2'	2.28	0.45
32:2a:583:A:H2'	32:2a:584:G:O4'	2.16	0.45
32:2a:1132:C:H2'	32:2a:1133:G:C8	2.51	0.45
32:2a:1216:G:OP1	45:2n:2:ALA:HA	2.17	0.45
33:2b:223:ILE:HA	33:2b:226:ARG:HG2	1.99	0.45
38:2g:146:GLU:O	38:2g:149:ARG:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2l:46:LYS:HG2	43:2l:92:0TD:SB	2.56	0.45
1:1A:1394:U:H2'	1:1A:1395:A:O4'	2.17	0.45
1:1A:1423:G:OP1	1:1A:1492:G:O2'	2.34	0.45
1:1A:1526:G:C6	1:1A:1527:G:C2	3.05	0.45
1:1A:2376:A:H2'	1:1A:2377:A:O4'	2.16	0.45
6:1G:37:VAL:HG21	6:1G:103:LEU:HD21	1.98	0.45
18:1W:17:VAL:HG12	18:1W:43:GLY:HA3	1.99	0.45
32:1a:1118:C:H2'	32:1a:1119:C:H6	1.82	0.45
32:1a:1376:U:H2'	32:1a:1377:A:H8	1.82	0.45
33:1b:71:VAL:HG12	33:1b:170:GLU:HG3	1.99	0.45
36:1e:18:ARG:NH1	36:1e:27:ARG:HH12	2.14	0.45
37:1f:82:ARG:HB2	37:1f:85:VAL:HG23	1.98	0.45
38:1g:47:CYS:SG	38:1g:58:PRO:HB2	2.57	0.45
39:1h:36:LEU:HD23	39:1h:39:LEU:HD12	1.98	0.45
1:2A:40:C:H2'	1:2A:41:C:C6	2.52	0.45
1:2A:746:A:H2'	1:2A:2612:C:H5"	1.99	0.45
1:2A:1151:G:H4'	16:2U:81:HIS:CG	2.52	0.45
1:2A:1489:U:O2'	1:2A:1490:A:H8	2.00	0.45
1:2A:2063:C:H4'	55:2x:76:31H:HE2	1.98	0.45
1:2A:2250:G:C8	1:2A:2496:C:H5"	2.51	0.45
1:2A:2331:G:O2'	22:20:43:THR:HG22	2.17	0.45
1:2A:2615:U:H2'	1:2A:2616:C:H6	1.81	0.45
5:2F:21:ALA:CB	5:2F:22:ALA:HA	2.46	0.45
5:2F:126:VAL:HG21	5:2F:129:PHE:CZ	2.52	0.45
5:2F:184:TYR:O	5:2F:188:ARG:HG3	2.17	0.45
7:2H:24:VAL:HG23	7:2H:26:VAL:HG23	1.99	0.45
9:2N:15:LEU:HB2	9:2N:135:PRO:HB2	1.97	0.45
21:2Z:130:PRO:HA	21:2Z:133:ILE:HG13	1.98	0.45
32:2a:334:C:H2'	32:2a:335:C:C6	2.51	0.45
32:2a:865:A:H5'	32:2a:1078:U:C5	2.52	0.45
32:2a:964:A:N3	32:2a:969:A:O2'	2.48	0.45
32:2a:1239:A:H4'	32:2a:1240:U:H5"	1.98	0.45
33:2b:16:HIS:CB	33:2b:204:ASN:HB3	2.45	0.45
34:2c:47:LEU:CD1	34:2c:68:VAL:HG11	2.47	0.45
37:2f:76:ALA:HB1	37:2f:80:ARG:NH2	2.32	0.45
40:2i:3:GLN:HE21	40:2i:20:ARG:NE	2.03	0.45
40:2i:99:LEU:HB3	40:2i:101:PHE:CE2	2.51	0.45
49:2r:33:ASP:OD2	49:2r:36:ASN:HB2	2.15	0.45
56:2y:68:C:H2'	56:2y:69:G:O4'	2.17	0.45
1:1A:30:G:H2'	1:1A:31:C:C6	2.53	0.45
1:1A:271(Z):C:N4	61:1A:4629:HOH:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2000:G:N7	61:1A:4436:HOH:O	2.36	0.45
1:1A:2679:A:H4'	4:1E:165:VAL:HG11	1.99	0.45
1:1A:2791:C:O2	1:1A:2807:G:N2	2.50	0.45
4:1E:12:THR:HG22	4:1E:13:ARG:N	2.32	0.45
6:1G:73:ALA:HB3	6:1G:85:GLY:H	1.82	0.45
8:1I:23:PRO:O	8:1I:27:ARG:HG3	2.17	0.45
8:1I:109:ILE:HG13	8:1I:130:TYR:CZ	2.52	0.45
9:1N:89:LYS:HE2	9:1N:89:LYS:HB2	1.85	0.45
13:1R:10:LEU:HD13	13:1R:40:LYS:HG2	1.99	0.45
30:18:26:LYS:HD2	30:18:48:PHE:CD2	2.52	0.45
31:19:24:TYR:CE1	31:19:35:ARG:HB2	2.52	0.45
32:1a:138:G:H2'	32:1a:139:G:C8	2.52	0.45
32:1a:309:G:O2'	32:1a:607:A:N1	2.46	0.45
32:1a:944:G:O6	32:1a:1337:G:H8	2.00	0.45
32:1a:1429:C:H2'	32:1a:1430:C:C6	2.52	0.45
32:1a:1504:G:OP1	32:1a:1507:A:H4'	2.17	0.45
54:1w:18:G:H4'	54:1w:60:U:C5	2.52	0.45
1:2A:224:G:H2'	1:2A:225:A:O4'	2.16	0.45
1:2A:287:C:H2'	1:2A:288:C:H6	1.81	0.45
1:2A:880:G:N1	1:2A:898:C:O2	2.50	0.45
1:2A:1384:A:N3	1:2A:1405:U:H1'	2.31	0.45
1:2A:1540:U:H2'	1:2A:1541:G:O4'	2.17	0.45
1:2A:1812:A:OP2	61:2A:3981:HOH:O	2.21	0.45
1:2A:1825:A:O4'	3:2D:254:THR:HG21	2.17	0.45
1:2A:2135:A:H61	1:2A:2156:G:H21	1.65	0.45
5:2F:29:ASN:O	5:2F:112:MET:HE1	2.17	0.45
18:2W:1:MET:HE2	18:2W:2:GLU:O	2.17	0.45
32:2a:255:G:O6	32:2a:270:A:N6	2.50	0.45
32:2a:260:G:H2'	32:2a:261:U:C6	2.52	0.45
32:2a:1068:G:H8	32:2a:1068:G:OP2	1.99	0.45
37:2f:16:GLN:CD	37:2f:16:GLN:H	2.25	0.45
40:2i:8:GLY:HA2	40:2i:79:LEU:HB3	1.97	0.45
1:1A:18:C:O2'	1:1A:554:U:OP1	2.34	0.44
1:1A:1053:C:C4	1:1A:1054:A:C8	3.05	0.44
1:1A:1805:U:O2	3:1D:50:THR:HB	2.17	0.44
9:1N:67:LEU:C	9:1N:88:GLU:HG3	2.42	0.44
31:19:17:ILE:HG13	31:19:24:TYR:HB2	1.98	0.44
34:1c:71:ALA:HA	34:1c:106:VAL:HG22	1.98	0.44
35:1d:122:ARG:HH11	35:1d:134:ASP:HB2	1.83	0.44
50:1s:41:VAL:HG12	50:1s:44:MET:HG3	1.99	0.44
1:2A:191:A:H2'	1:2A:192:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:590:A:H2'	1:2A:591:C:C6	2.52	0.44
1:2A:784:A:C6	3:2D:229:VAL:HG11	2.51	0.44
1:2A:1277:G:O2'	13:2R:24:GLN:HG2	2.17	0.44
1:2A:1410:G:H2'	1:2A:1411:C:C6	2.52	0.44
1:2A:1996:C:H4'	1:2A:1997:G:OP1	2.17	0.44
1:2A:2685:G:H5'	10:2O:68:GLU:OE2	2.17	0.44
6:2G:56:ALA:O	6:2G:59:GLU:HG2	2.18	0.44
7:2H:74:ASN:O	7:2H:78:GLY:N	2.43	0.44
8:2I:133:HIS:ND1	8:2I:134:PRO:O	2.50	0.44
9:2N:123:TYR:OH	9:2N:130:HIS:NE2	2.26	0.44
11:2P:77:ARG:HB2	11:2P:78:PRO:HD2	1.97	0.44
14:2S:38:GLN:NE2	14:2S:47:THR:OG1	2.37	0.44
32:2a:354:G:O2'	32:2a:389:A:OP1	2.27	0.44
32:2a:431:A:H2'	32:2a:432:A:O4'	2.17	0.44
32:2a:613:C:N3	32:2a:628:G:N2	2.65	0.44
32:2a:1367:C:O2'	41:2j:62:HIS:HE1	2.00	0.44
32:2a:1500:A:H5"	32:2a:1508:G:H5"	1.98	0.44
38:2g:69:VAL:HG21	38:2g:104:LEU:HD21	1.98	0.44
38:2g:113:GLU:HG2	38:2g:119:ARG:HG2	1.99	0.44
44:2m:113:PRO:O	44:2m:115:LYS:NZ	2.49	0.44
50:2s:80:TYR:O	50:2s:82:GLY:N	2.50	0.44
56:2y:14:A:H3'	56:2y:15:G:C8	2.52	0.44
1:1A:478:A:C6	1:1A:480:A:C6	3.05	0.44
1:1A:970:C:OP1	25:13:20:LYS:NZ	2.45	0.44
1:1A:1066:U:H2'	1:1A:1068:G:OP2	2.17	0.44
1:1A:1328:G:O2'	1:1A:1329:U:H2'	2.17	0.44
1:1A:1919:A:O2'	32:1a:1517:G:N3	2.45	0.44
1:1A:2111:C:N4	1:1A:2144:U:O2'	2.50	0.44
1:1A:2533:A:OP1	1:1A:2665:A:O2'	2.24	0.44
4:1E:14:ILE:HG13	4:1E:21:VAL:HG13	1.98	0.44
7:1H:103:LEU:HB2	7:1H:123:PHE:CD2	2.52	0.44
21:1Z:8:TYR:HB2	21:1Z:38:TYR:CE2	2.51	0.44
32:1a:404:U:H2'	32:1a:405:U:C6	2.51	0.44
32:1a:461:A:O2'	32:1a:471:G:N7	2.46	0.44
32:1a:690:G:H2'	32:1a:691:G:O4'	2.17	0.44
32:1a:1122:U:H2'	32:1a:1123:A:O4'	2.17	0.44
41:1j:30:SER:HB3	41:1j:81:THR:OG1	2.17	0.44
1:2A:840:C:H2'	1:2A:841:A:C8	2.52	0.44
1:2A:1028:A:H2'	1:2A:1029:A:C8	2.52	0.44
1:2A:1266:G:O5'	18:2W:15:ARG:NH2	2.51	0.44
1:2A:1625:C:H2'	1:2A:1626:G:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1815:A:H8	1:2A:1815:A:OP1	2.00	0.44
1:2A:2805:G:H2'	1:2A:2807:G:C8	2.52	0.44
2:2B:80:U:H2'	2:2B:81:G:C8	2.52	0.44
21:2Z:30:ASN:ND2	21:2Z:90:VAL:HB	2.32	0.44
30:28:62:LEU:HB3	30:28:65:GLU:CG	2.47	0.44
32:2a:522:C:OP2	43:2l:69:TYR:OH	2.26	0.44
32:2a:946:A:H2'	32:2a:947:G:C8	2.52	0.44
32:2a:1057:G:H2'	32:2a:1058:G:O4'	2.18	0.44
32:2a:1466:C:H2'	32:2a:1467:G:O4'	2.16	0.44
1:1A:379:G:H4'	1:1A:2232:U:H5"	1.99	0.44
1:1A:818:G:H5'	1:1A:839:U:OP1	2.17	0.44
1:1A:839:U:H2'	1:1A:840:C:C6	2.51	0.44
1:1A:1512:U:O2'	1:1A:1513:C:H5'	2.17	0.44
7:1H:9:ILE:HD12	7:1H:50:VAL:HG12	2.00	0.44
21:1Z:103:ARG:O	21:1Z:139:VAL:HG23	2.18	0.44
32:1a:7:G:H21	36:1e:121:LYS:HG2	1.83	0.44
32:1a:1025:U:O2'	32:1a:1026:G:O4'	2.33	0.44
32:1a:1273:G:C2	32:1a:1274:G:H1'	2.52	0.44
32:1a:1394:A:C5	32:1a:1501:C:H4'	2.52	0.44
32:1a:1427:U:H2'	32:1a:1428:A:H8	1.82	0.44
32:1a:1518:MA6:O5'	32:1a:1518:MA6:H8	2.17	0.44
45:1n:50:LYS:HD2	45:1n:52:GLN:NE2	2.33	0.44
54:1w:56:C:H2'	54:1w:57:G:O4'	2.17	0.44
1:2A:1265:A:H3'	27:25:19:ARG:HH21	1.82	0.44
1:2A:1371:G:O6	61:2A:3978:HOH:O	2.20	0.44
1:2A:1448:G:H1'	1:2A:1528:A:N1	2.31	0.44
1:2A:1529:G:C6	1:2A:1530:C:N4	2.86	0.44
1:2A:2432:A:C6	1:2A:2433:A:C6	3.06	0.44
1:2A:2684:U:H1'	10:2O:70:LYS:HD2	2.00	0.44
1:2A:2850:A:H2	13:2R:61:HIS:CG	2.36	0.44
3:2D:38:LYS:HA	3:2D:38:LYS:HD2	1.87	0.44
12:2Q:48:GLU:OE2	12:2Q:51:ARG:NH2	2.50	0.44
22:20:26:TYR:N	22:20:29:GLN:OE1	2.41	0.44
32:2a:446:G:H2'	32:2a:447:G:O4'	2.17	0.44
32:2a:600:C:H5"	39:2h:97:VAL:CG1	2.47	0.44
32:2a:1095:U:OP2	61:2a:1928:HOH:O	2.21	0.44
32:2a:1410:G:H2'	32:2a:1411:C:C6	2.53	0.44
34:2c:140:ARG:CZ	34:2c:140:ARG:HB2	2.48	0.44
35:2d:122:ARG:HD2	35:2d:122:ARG:HA	1.71	0.44
36:2e:76:ILE:O	36:2e:93:PRO:HB3	2.17	0.44
41:2j:6:ILE:N	41:2j:72:VAL:O	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1932:A:H2'	1:1A:1933:G:O4'	2.18	0.44
1:1A:2749:A:OP1	7:1H:3:ARG:NH1	2.51	0.44
1:1A:2756:U:H1'	1:1A:2757:A:H5"	1.99	0.44
3:1D:8:PRO:HB3	3:1D:14:ARG:HG2	1.98	0.44
3:1D:133:LEU:HB3	3:1D:173:VAL:HG11	1.98	0.44
3:1D:145:VAL:HB	3:1D:155:LEU:HB2	2.00	0.44
5:1F:24:LEU:HB3	5:1F:115:ALA:HB2	1.98	0.44
12:1Q:17:LEU:HD23	12:1Q:17:LEU:HA	1.70	0.44
20:1Y:20:TYR:CG	20:1Y:42:VAL:HG13	2.52	0.44
25:13:3:ARG:HB2	25:13:59:VAL:HG23	2.00	0.44
32:1a:109:A:H2'	32:1a:326:G:N2	2.31	0.44
32:1a:737:A:H2'	32:1a:738:C:C6	2.52	0.44
32:1a:1168:A:H2'	32:1a:1169:A:C8	2.53	0.44
1:2A:372:G:H8	23:21:65:SER:O	2.00	0.44
1:2A:555:U:O2'	1:2A:556:G:N7	2.40	0.44
1:2A:1243:G:H2'	1:2A:1244:G:O4'	2.17	0.44
1:2A:2050:C:O2'	4:2E:141:ILE:HG21	2.17	0.44
1:2A:2516:G:C6	1:2A:2517:C:N4	2.86	0.44
4:2E:116:VAL:HG13	4:2E:122:PHE:HB2	1.98	0.44
6:2G:67:LYS:H	26:24:6:HIS:CE1	2.36	0.44
30:28:23:VAL:HG11	30:28:47:LYS:HD3	2.00	0.44
32:2a:237:C:H5"	48:2q:25:ARG:CZ	2.48	0.44
32:2a:738:C:OP1	37:2f:4:TYR:OH	2.29	0.44
32:2a:741:G:H2'	32:2a:742:G:O4'	2.17	0.44
32:2a:944:G:O2'	32:2a:1339:A:N6	2.49	0.44
32:2a:1040:U:H4'	32:2a:1040:U:OP1	2.18	0.44
32:2a:1071:C:H2'	32:2a:1072:G:H8	1.82	0.44
32:2a:1111:A:N1	34:2c:177:THR:OG1	2.41	0.44
32:2a:1452:C:H1'	61:2a:1922:HOH:O	2.17	0.44
38:2g:111:ARG:NH1	38:2g:122:HIS:HB3	2.32	0.44
1:1A:603:A:O4'	1:1A:655:A:N6	2.50	0.44
1:1A:647:G:H2'	1:1A:648:G:O4'	2.17	0.44
1:1A:1364:G:P	23:11:3:LYS:HG3	2.57	0.44
1:1A:2439:A:H5'	1:1A:2439:A:H8	1.83	0.44
1:1A:2867:G:OP2	15:1T:119:LYS:NZ	2.27	0.44
4:1E:33:VAL:HG22	4:1E:89:ASP:HA	1.99	0.44
9:1N:34:LEU:HD11	9:1N:120:LEU:HB2	1.99	0.44
21:1Z:4:ARG:NE	21:1Z:60:GLU:OE2	2.45	0.44
32:1a:436:C:H2'	32:1a:437:U:O4'	2.18	0.44
32:1a:567:G:H2'	32:1a:568:G:O4'	2.17	0.44
33:1b:178:ARG:HB3	39:1h:72:PRO:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:10:LEU:HB2	37:1f:59:TYR:HB3	1.99	0.44
39:1h:121:ASP:OD1	39:1h:121:ASP:N	2.50	0.44
49:1r:34:TYR:CD1	49:1r:35:ARG:HG3	2.53	0.44
51:1t:47:GLY:HA2	51:1t:48:LYS:C	2.43	0.44
1:2A:504:U:H5'	1:2A:506:G:OP2	2.18	0.44
1:2A:627:A:C6	11:2P:115:LEU:HD13	2.52	0.44
1:2A:856:C:H2'	1:2A:857:C:C6	2.52	0.44
1:2A:2441:C:O2'	1:2A:2442:C:H5'	2.18	0.44
4:2E:76:ARG:HB2	4:2E:77:ILE:HD12	1.98	0.44
5:2F:102:PRO:HB2	5:2F:105:VAL:HG23	2.00	0.44
5:2F:137:LYS:HE2	5:2F:137:LYS:HB2	1.78	0.44
6:2G:32:PRO:HB3	6:2G:163:ALA:HB2	1.99	0.44
29:27:13:ALA:HB2	29:27:46:VAL:HG11	1.99	0.44
32:2a:986:A:H2'	32:2a:987:G:C8	2.53	0.44
32:2a:1032:G:H2'	32:2a:1033:G:C8	2.52	0.44
33:2b:112:VAL:HG23	33:2b:149:LEU:HD13	1.99	0.44
34:2c:110:ASN:O	34:2c:141:VAL:HG22	2.17	0.44
36:2e:12:LEU:HD23	36:2e:13:ILE:N	2.33	0.44
39:2h:31:PHE:O	39:2h:35:ILE:HG13	2.17	0.44
45:2n:4:LYS:O	45:2n:7:ILE:HG22	2.18	0.44
50:2s:30:LEU:HA	50:2s:48:THR:O	2.17	0.44
54:2w:23:A:H2'	54:2w:24:G:C8	2.52	0.44
1:1A:571:A:O2'	17:1V:78:LYS:HE2	2.18	0.44
1:1A:897:C:H2'	1:1A:898:C:C6	2.53	0.44
4:1E:97:LYS:H	4:1E:100:GLU:CD	2.25	0.44
14:1S:34:HIS:ND1	14:1S:53:SER:HB2	2.33	0.44
32:1a:204:U:H3'	32:1a:204:U:OP1	2.18	0.44
32:1a:688:G:H5'	42:1k:46:GLY:C	2.43	0.44
32:1a:902:G:H2'	32:1a:903:G:H8	1.82	0.44
32:1a:1360:A:OP2	45:1n:35:ARG:NH2	2.50	0.44
35:1d:3:ARG:HD3	35:1d:118:ARG:HD2	1.98	0.44
39:1h:34:GLU:O	39:1h:38:ILE:HG12	2.18	0.44
43:1l:8:ASN:O	43:1l:12:ARG:HG3	2.18	0.44
48:1q:11:VAL:HG12	48:1q:85:VAL:HG13	1.99	0.44
50:1s:22:LEU:HD12	50:1s:31:ILE:HD11	1.98	0.44
1:2A:64:A:O3'	19:2X:71:GLY:HA3	2.17	0.44
1:2A:234:C:H2'	1:2A:235:U:C6	2.51	0.44
1:2A:320:A:H4'	1:2A:322:A:N7	2.32	0.44
1:2A:631:A:H1'	1:2A:2415:G:O2'	2.18	0.44
1:2A:890:A:H2'	1:2A:892:G:H8	1.82	0.44
1:2A:1272:A:H3'	1:2A:1273:U:H5"	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2123:G:H2'	1:2A:2124:G:C8	2.53	0.44
1:2A:2679:A:H4'	4:2E:165:VAL:HG11	1.98	0.44
2:2B:14:U:OP2	2:2B:70:C:O2'	2.30	0.44
5:2F:118:ALA:C	5:2F:120:GLU:H	2.25	0.44
6:2G:103:LEU:O	6:2G:107:LEU:HG	2.16	0.44
6:2G:117:PHE:CE2	6:2G:119:GLY:HA2	2.53	0.44
8:2I:61:ARG:HB2	8:2I:61:ARG:HH11	1.83	0.44
19:2X:40:LYS:HG3	19:2X:51:VAL:HB	1.99	0.44
32:2a:692:U:H2'	32:2a:694:A:OP2	2.17	0.44
32:2a:1261:A:H5'	32:2a:1284:C:OP1	2.17	0.44
32:2a:1518:MA6:H93	32:2a:1519:MA6:H92	1.98	0.44
33:2b:18:GLY:O	33:2b:19:HIS:HB2	2.18	0.44
33:2b:80:ILE:HG21	33:2b:211:ILE:HG21	2.00	0.44
49:2r:45:SER:OG	49:2r:47:THR:HG22	2.18	0.44
51:2t:54:LYS:HA	51:2t:57:ARG:CZ	2.48	0.44
54:2w:65:G:H2'	54:2w:66:U:O4'	2.17	0.44
1:1A:211:A:H2'	1:1A:212:G:O4'	2.17	0.44
1:1A:1342:A:O2'	1:1A:1344:G:OP2	2.24	0.44
1:1A:1653:G:O3'	13:1R:2:ARG:HB2	2.16	0.44
1:1A:1810:A:H2'	1:1A:1811:G:O4'	2.17	0.44
1:1A:2124:G:H3'	1:1A:2125:G:C8	2.53	0.44
1:1A:2471:C:H2'	1:1A:2472:G:O4'	2.18	0.44
6:1G:121:ASN:HD22	6:1G:181:ARG:NH2	2.16	0.44
10:1O:7:TYR:CZ	10:1O:44:LYS:HG3	2.52	0.44
21:1Z:155:LEU:HD12	21:1Z:156:LYS:H	1.83	0.44
32:1a:66:G:O4'	32:1a:173:U:C4	2.71	0.44
32:1a:722:A:N6	32:1a:724:G:C2	2.85	0.44
32:1a:926:G:H5"	32:1a:927:G:O5'	2.18	0.44
32:1a:1035:A:N3	32:1a:1036:G:N2	2.66	0.44
32:1a:1054:C:C4	54:1w:34:G:H1'	2.53	0.44
32:1a:1151:A:O2'	32:1a:1152:A:H8	2.00	0.44
34:1c:17:ASP:OD2	34:1c:21:ARG:NE	2.45	0.44
43:1l:124:LYS:HA	43:1l:125:PRO:HD3	1.84	0.44
51:1t:13:LEU:HD12	51:1t:14:LYS:N	2.33	0.44
51:1t:43:LEU:HD13	51:1t:51:GLU:HG2	1.99	0.44
1:2A:940:G:N3	1:2A:1191:G:H4'	2.33	0.44
1:2A:1035:U:H5"	7:2H:59:ARG:HD3	1.99	0.44
1:2A:1686:C:H2'	1:2A:1687:G:O4'	2.18	0.44
1:2A:1919:A:O3'	32:2a:1517:G:H1'	2.18	0.44
1:2A:2251:OMG:HM23	1:2A:2251:OMG:H1'	1.72	0.44
1:2A:2493:U:H2'	1:2A:2494:G:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:148:GLU:HB2	3:2D:151:LYS:HD2	1.98	0.44
5:2F:150:GLY:HA2	5:2F:172:TRP:CD2	2.53	0.44
6:2G:11:TYR:HB2	6:2G:176:LEU:HD21	2.00	0.44
7:2H:3:ARG:HH11	7:2H:4:ILE:H	1.65	0.44
10:2O:111:PHE:O	10:2O:115:VAL:HG23	2.17	0.44
15:2T:29:ARG:NE	15:2T:46:GLU:OE1	2.36	0.44
32:2a:49:U:O2'	32:2a:50:A:H2'	2.17	0.44
32:2a:714:G:H2'	32:2a:715:A:C8	2.52	0.44
32:2a:1302:U:OP2	44:2m:21:TYR:OH	2.25	0.44
1:1A:1265:A:H3'	27:15:19:ARG:NH2	2.32	0.44
1:1A:2641:G:P	9:1N:74:ARG:HE	2.41	0.44
1:1A:2854:G:H2'	1:1A:2855:C:C6	2.53	0.44
2:1B:9:G:OP1	14:1S:19:LYS:NZ	2.36	0.44
4:1E:59:VAL:HG21	4:1E:74:PRO:HB3	1.99	0.44
5:1F:64:ILE:HG23	5:1F:76:GLY:O	2.18	0.44
5:1F:89:VAL:HG12	5:1F:90:PHE:CD2	2.53	0.44
32:1a:782:A:H4'	32:1a:1514:C:O2'	2.17	0.44
56:1y:12:U:O2	56:1y:24:G:N2	2.50	0.44
1:2A:603:A:N1	1:2A:625:G:O2'	2.43	0.44
1:2A:990:A:H1'	1:2A:1156:A:C2	2.53	0.44
1:2A:1186:G:H2'	1:2A:1187:G:O4'	2.18	0.44
1:2A:1265:A:H3'	27:25:19:ARG:NH2	2.33	0.44
1:2A:1851:U:H2'	1:2A:1852:C:O4'	2.18	0.44
3:2D:17:THR:O	3:2D:211:ARG:NH2	2.50	0.44
7:2H:113:VAL:HG11	7:2H:151:ILE:HG21	1.99	0.44
32:2a:6:G:H1	36:2e:98:THR:HG21	1.83	0.44
32:2a:50:A:H1'	32:2a:52:G:C8	2.53	0.44
34:2c:35:GLU:O	34:2c:39:ILE:HG12	2.18	0.44
41:2j:11:PHE:CE1	41:2j:67:THR:HG22	2.53	0.44
43:2l:90:VAL:O	43:2l:92:0TD:N	2.51	0.44
44:2m:122:LYS:HG3	44:2m:123:ALA:H	1.83	0.44
1:1A:78:A:H2'	1:1A:79:G:C8	2.53	0.44
1:1A:142(A):C:H2'	1:1A:143:G:O4'	2.17	0.44
1:1A:1372:U:H2'	1:1A:1373:A:H8	1.83	0.44
1:1A:1426:G:N7	3:1D:31:LYS:NZ	2.55	0.44
1:1A:1927:A:H2'	1:1A:1928:A:C8	2.52	0.44
1:1A:2160:G:C6	1:1A:2161:C:N4	2.86	0.44
1:1A:2447:G:N2	1:1A:2450:A:OP2	2.51	0.44
1:1A:2728:U:H2'	1:1A:2729:G:C8	2.53	0.44
3:1D:24:ILE:HD13	3:1D:84:TYR:HB2	2.00	0.44
8:1I:66:GLU:C	8:1I:68:LEU:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:153:SER:HB3	21:1Z:167:PRO:HB3	1.99	0.44
26:14:15:ILE:HB	26:14:32:TYR:CD1	2.52	0.44
32:1a:543:C:OP1	35:1d:14:ARG:NE	2.50	0.44
32:1a:938:A:C6	32:1a:939:G:C5	3.06	0.44
32:1a:1071:C:H5"	36:1e:49:PRO:HG2	2.00	0.44
32:1a:1286:A:N6	32:1a:1354:C:O3'	2.51	0.44
32:1a:1338:G:H2'	32:1a:1339:A:C8	2.53	0.44
32:1a:1342:C:H4'	40:1i:125:TYR:O	2.17	0.44
33:1b:37:ASN:O	33:1b:39:ILE:HG13	2.18	0.44
41:1j:38:ILE:CG1	41:1j:71:LEU:HB3	2.48	0.44
41:1j:54:PHE:O	41:1j:55:LYS:HG2	2.17	0.44
44:1m:50:GLU:HA	44:1m:53:VAL:HB	1.99	0.44
55:1x:45:G:H8	55:1x:45:G:O5'	2.00	0.44
1:2A:208:C:H2'	1:2A:209:C:C6	2.53	0.44
1:2A:248:G:H5'	1:2A:250:G:N7	2.33	0.44
1:2A:329:G:OP2	20:2Y:71:LYS:HD2	2.18	0.44
1:2A:415:A:H2'	1:2A:416:C:O4'	2.17	0.44
1:2A:593:G:H2'	1:2A:594:U:C6	2.53	0.44
1:2A:897:C:H1'	54:2w:56:C:C5	2.53	0.44
1:2A:1742:G:H2'	1:2A:1743:C:O4'	2.18	0.44
1:2A:1752:C:H2'	1:2A:1753:G:C8	2.53	0.44
1:2A:2108:C:N4	1:2A:2181:G:N1	2.47	0.44
1:2A:2692:C:H1'	1:2A:2847:U:H1'	2.00	0.44
2:2B:75:G:H1	21:2Z:73:GLN:NE2	2.16	0.44
4:2E:54:GLN:OE1	4:2E:55:ASN:N	2.42	0.44
13:2R:26:LYS:HE2	13:2R:70:LEU:O	2.16	0.44
17:2V:14:VAL:HG21	17:2V:57:VAL:HG21	2.00	0.44
18:2W:68:ARG:HH12	18:2W:112:GLY:H	1.66	0.44
19:2X:4:ALA:HB1	19:2X:42:ALA:HA	1.99	0.44
22:20:18:ALA:HB3	22:20:20:ARG:NH1	2.33	0.44
26:24:53:GLU:HG3	26:24:56:VAL:HG12	2.00	0.44
32:2a:113:G:N3	32:2a:353:A:O2'	2.49	0.44
32:2a:530:G:N3	54:2w:35:A:O2'	2.40	0.44
32:2a:688:G:H5'	42:2k:46:GLY:C	2.43	0.44
32:2a:1413:A:H2'	32:2a:1414:U:O4'	2.17	0.44
33:2b:230:VAL:HG12	33:2b:232:PRO:HD2	2.00	0.44
34:2c:39:ILE:O	34:2c:43:LEU:HB2	2.18	0.44
35:2d:155:LEU:HD23	35:2d:155:LEU:HA	1.72	0.44
37:2f:12:PRO:HG3	37:2f:57:GLN:O	2.18	0.44
40:2i:9:ARG:HB2	40:2i:104:ARG:HD2	2.00	0.44
1:1A:244:A:C2	1:1A:255:A:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:263:C:H2'	1:1A:264:C:O4'	2.18	0.43
1:1A:1491:G:O2'	3:1D:101:GLU:HB2	2.18	0.43
1:1A:1860:G:H2'	1:1A:1861:G:O4'	2.18	0.43
11:1P:121:LYS:HB3	11:1P:121:LYS:HE2	1.64	0.43
19:1X:13:LEU:HD11	24:12:40:SER:OG	2.17	0.43
32:1a:6:G:H2'	36:1e:119:LEU:HD11	1.99	0.43
32:1a:265:G:H2'	32:1a:267:C:C5	2.46	0.43
32:1a:421:U:O4	34:1c:127:ARG:NH2	2.42	0.43
32:1a:457:C:H2'	32:1a:458:C:C6	2.53	0.43
32:1a:600:C:H2'	32:1a:601:C:C6	2.53	0.43
32:1a:814:A:H2'	32:1a:816:A:C5'	2.48	0.43
32:1a:1518:MA6:H93	32:1a:1519:MA6:C9	2.48	0.43
35:1d:172:PRO:C	35:1d:174:LEU:H	2.26	0.43
35:1d:173:TRP:CE3	35:1d:189:PRO:HG3	2.53	0.43
40:1i:17:VAL:HG21	40:1i:81:ILE:HG12	2.00	0.43
1:2A:319:C:H2'	1:2A:320:A:O4'	2.18	0.43
1:2A:453:C:O2	1:2A:457:A:O2'	2.34	0.43
1:2A:471:A:H2'	1:2A:472:A:O4'	2.18	0.43
1:2A:994:C:H3'	16:2U:54:LYS:NZ	2.33	0.43
1:2A:1580:A:H8	1:2A:1580:A:OP2	2.00	0.43
32:2a:299:G:H2'	32:2a:300:A:C8	2.53	0.43
32:2a:334:C:H2'	32:2a:335:C:H6	1.83	0.43
32:2a:411:A:OP1	35:2d:30:LYS:NZ	2.44	0.43
32:2a:598:U:H4'	39:2h:94:TYR:CG	2.53	0.43
32:2a:688:G:C6	32:2a:700:G:C2	3.06	0.43
32:2a:1126:U:H3	41:2j:40:LEU:HD11	1.82	0.43
32:2a:1403:C:H1'	32:2a:1500:A:N1	2.32	0.43
44:2m:86:CYS:HB2	50:2s:73:GLU:HG3	1.99	0.43
55:2x:43:A:H2'	55:2x:44:A:C8	2.53	0.43
1:1A:57:C:H2'	1:1A:58:G:O4'	2.18	0.43
1:1A:548:A:H1'	1:1A:549:G:OP1	2.17	0.43
1:1A:1028:A:N3	1:1A:2486:G:O2'	2.45	0.43
1:1A:1266:G:O6	18:1W:13:SER:OG	2.20	0.43
1:1A:1372:U:H2'	1:1A:1373:A:C8	2.54	0.43
1:1A:1817:G:C6	1:1A:1818:U:C4	3.06	0.43
1:1A:2602:A:N6	55:1x:76:31H:H2'	2.33	0.43
5:1F:9:ILE:HD13	5:1F:123:LEU:HD23	2.00	0.43
5:1F:165:ARG:HG2	5:1F:168:ARG:NH2	2.27	0.43
17:1V:19:LYS:HA	17:1V:94:LEU:O	2.18	0.43
19:1X:32:PRO:HA	19:1X:77:LYS:HB2	1.99	0.43
30:18:61:LEU:O	30:18:62:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:7:G:C8	36:1e:119:LEU:HD13	2.54	0.43
32:1a:620:C:N1	35:1d:135:LEU:HD13	2.32	0.43
32:1a:701:C:OP1	32:1a:702:A:O2'	2.23	0.43
32:1a:855:G:H2'	32:1a:856:C:O4'	2.18	0.43
32:1a:1174:G:H2'	32:1a:1175:G:H8	1.82	0.43
32:1a:1457:G:H2'	32:1a:1458:G:C8	2.53	0.43
49:1r:56:THR:HG21	49:1r:63:GLN:HE22	1.83	0.43
1:2A:335:C:H4'	20:2Y:73:ARG:HD2	2.00	0.43
1:2A:612:C:C2	1:2A:616:G:N2	2.86	0.43
1:2A:684:G:N7	61:2A:4105:HOH:O	2.37	0.43
1:2A:807:U:O2'	1:2A:2060:A:N1	2.45	0.43
1:2A:900:A:H2'	1:2A:901:A:H8	1.83	0.43
1:2A:1366:A:H2'	1:2A:1367:A:O4'	2.16	0.43
1:2A:1713:U:O2'	1:2A:1714:G:H5'	2.18	0.43
1:2A:2334:G:O4'	14:2S:12:PHE:HB3	2.18	0.43
1:2A:2674:G:H5"	10:2O:26:LYS:HE3	2.00	0.43
1:2A:2836:U:C4	1:2A:2883:A:N6	2.86	0.43
2:2B:118:G:H5'	61:2B:313:HOH:O	2.17	0.43
6:2G:11:TYR:O	6:2G:16:ARG:N	2.50	0.43
7:2H:90:LYS:HB3	7:2H:159:GLU:O	2.17	0.43
7:2H:97:ARG:O	7:2H:103:LEU:HD12	2.19	0.43
11:2P:63:PRO:HD3	30:28:27:THR:HG22	2.00	0.43
13:2R:59:ASP:OD2	13:2R:62:ALA:N	2.43	0.43
32:2a:391:G:C6	32:2a:392:G:C5	3.06	0.43
32:2a:537:G:H2'	32:2a:538:G:C8	2.52	0.43
32:2a:692:U:OP2	42:2k:26:ASN:ND2	2.51	0.43
32:2a:755:G:OP2	46:2o:65:ARG:HD2	2.18	0.43
32:2a:1023:G:H3'	32:2a:1024:G:C8	2.51	0.43
32:2a:1051:C:C4	32:2a:1052:U:C4	3.06	0.43
32:2a:1093:A:O2'	32:2a:1095:U:OP1	2.34	0.43
32:2a:1275:A:H3'	32:2a:1276:G:H8	1.82	0.43
37:2f:75:LEU:O	37:2f:79:LEU:N	2.42	0.43
42:2k:78:GLN:HA	42:2k:103:LEU:HD22	2.00	0.43
53:2v:23:A:H4'	53:2v:24:A:O4'	2.18	0.43
54:2w:19:G:H1	54:2w:56:C:H42	1.66	0.43
55:2x:16:C:H5'	55:2x:59:A:N1	2.33	0.43
1:1A:1647:G:P	1:1A:1647:G:H3'	2.58	0.43
1:1A:2176:A:H2'	1:1A:2177:C:C6	2.52	0.43
1:1A:2864:G:OP1	15:1T:119:LYS:HD2	2.18	0.43
2:1B:106:G:C5'	21:1Z:31:ARG:HG2	2.49	0.43
8:1I:40:THR:HG23	8:1I:43:ASN:OD1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:12:VAL:HG21	19:1X:27:THR:HG22	2.01	0.43
32:1a:46:G:O2'	32:1a:365:U:H1'	2.19	0.43
32:1a:860:A:H2'	32:1a:861:G:O4'	2.18	0.43
32:1a:1152:A:OP1	41:1j:68:HIS:ND1	2.51	0.43
32:1a:1314:C:H2'	32:1a:1315:U:C6	2.53	0.43
34:1c:181:ASN:ND2	34:1c:204:LEU:HD12	2.33	0.43
36:1e:131:ILE:HD13	36:1e:131:ILE:HA	1.91	0.43
40:1i:128:ARG:HD2	55:1x:35:A:OP1	2.18	0.43
1:2A:660:G:H5'	5:2F:99:TYR:CE1	2.53	0.43
1:2A:945:A:C4	1:2A:2448:A:C2	3.06	0.43
1:2A:2259:G:C2	1:2A:2282:G:C6	3.07	0.43
1:2A:2464:C:C2	1:2A:2487:G:C2	3.06	0.43
2:2B:42:C:O2	6:2G:93:THR:N	2.33	0.43
9:2N:38:HIS:CE1	9:2N:39:ARG:HG3	2.53	0.43
12:2Q:50:ALA:HB1	12:2Q:121:ALA:HB1	1.99	0.43
19:2X:94:GLY:N	19:2X:95:LEU:HB2	2.32	0.43
24:22:10:LEU:HD21	24:22:59:ARG:HG2	2.00	0.43
25:23:4:LEU:HD23	25:23:4:LEU:HA	1.88	0.43
25:23:50:VAL:O	25:23:54:VAL:HB	2.18	0.43
32:2a:186:C:O2'	51:2t:81:LYS:O	2.36	0.43
32:2a:417:C:H2'	32:2a:418:C:C6	2.53	0.43
32:2a:472:A:HO2'	47:2p:82:GLN:H	1.59	0.43
32:2a:491:G:H2'	32:2a:492:G:O4'	2.17	0.43
32:2a:772:U:H2'	32:2a:773:G:O4'	2.19	0.43
32:2a:1109:C:H2'	32:2a:1110:A:O4'	2.18	0.43
32:2a:1118:C:OP1	40:2i:9:ARG:HD3	2.17	0.43
32:2a:1265:G:C4	32:2a:1271:G:N2	2.86	0.43
32:2a:1304:G:C6	32:2a:1305:G:N1	2.86	0.43
33:2b:92:TYR:CZ	33:2b:151:GLY:HA3	2.52	0.43
39:2h:82:HIS:HE2	39:2h:84:ARG:HG2	1.84	0.43
40:2i:118:LYS:H	40:2i:121:ARG:HB3	1.82	0.43
42:2k:33:THR:HG22	42:2k:39:PRO:HA	2.00	0.43
45:2n:34:TYR:HD1	45:2n:44:LEU:HD13	1.84	0.43
49:2r:22:VAL:HG23	49:2r:55:ARG:O	2.17	0.43
56:2y:18:G:N2	56:2y:55:PSU:C4	2.75	0.43
1:1A:2820:A:C5	13:1R:4:LEU:HD11	2.53	0.43
4:1E:79:ARG:HD3	4:1E:79:ARG:HA	1.84	0.43
7:1H:52:VAL:O	7:1H:65:HIS:NE2	2.43	0.43
26:14:40:HIS:HB3	26:14:43:TYR:HD2	1.84	0.43
28:16:9:LEU:HB2	28:16:51:GLU:HG3	2.01	0.43
32:1a:841:U:OP2	32:1a:841:U:H6	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1276:G:H2'	32:1a:1277:C:O4'	2.18	0.43
32:1a:1349:A:H5"	40:1i:121:ARG:HB2	2.00	0.43
45:1n:6:LEU:HB3	45:1n:23:ARG:HH22	1.83	0.43
45:1n:27:CYS:SG	45:1n:29:ARG:HB2	2.58	0.43
48:1q:56:VAL:N	48:1q:78:GLU:O	2.41	0.43
49:1r:22:VAL:HG23	49:1r:55:ARG:O	2.18	0.43
49:1r:24:ALA:C	49:1r:26:LEU:H	2.26	0.43
1:2A:93:G:H2'	1:2A:94:C:C6	2.53	0.43
1:2A:2001:A:H2'	1:2A:2002:G:C8	2.53	0.43
1:2A:2058:MA6:H102	61:2A:4685:HOH:O	2.18	0.43
1:2A:2419:U:H2'	1:2A:2420:C:C6	2.54	0.43
1:2A:2464:C:H2'	1:2A:2465:C:O4'	2.17	0.43
1:2A:2575:C:H2'	1:2A:2578:G:O6	2.19	0.43
1:2A:2654:A:N1	1:2A:2665:A:H5"	2.33	0.43
1:2A:2741:A:H2'	1:2A:2742:C:O4'	2.18	0.43
2:2B:87:G:N2	2:2B:90:A:OP2	2.45	0.43
12:2Q:16:ARG:HG3	12:2Q:18:LYS:HG3	2.01	0.43
18:2W:43:GLY:O	18:2W:47:VAL:HG23	2.18	0.43
25:23:31:LEU:HD23	25:23:31:LEU:HA	1.82	0.43
32:2a:7:G:H2'	36:2e:119:LEU:HD22	2.00	0.43
32:2a:299:G:C6	32:2a:300:A:C6	3.07	0.43
32:2a:1080:A:OP1	36:2e:47:LYS:HD3	2.18	0.43
33:2b:71:VAL:N	33:2b:163:PHE:O	2.43	0.43
33:2b:81:VAL:HG22	33:2b:215:LEU:HD21	2.01	0.43
33:2b:216:SER:OG	33:2b:217:ARG:N	2.51	0.43
36:2e:42:GLY:HA2	36:2e:65:ASN:O	2.18	0.43
38:2g:16:LEU:HD12	38:2g:16:LEU:H	1.83	0.43
1:1A:686:G:OP2	1:1A:686:G:H4'	2.19	0.43
1:1A:880:G:N1	1:1A:899:A:N7	2.67	0.43
2:1B:91:C:OP2	12:1Q:16:ARG:NH1	2.51	0.43
5:1F:123:LEU:HD12	5:1F:192:LEU:O	2.19	0.43
10:1O:90:GLN:C	10:1O:92:GLU:H	2.27	0.43
11:1P:50:ARG:HD3	30:18:7:HIS:CD2	2.53	0.43
32:1a:1285:A:H4'	32:1a:1286:A:O5'	2.18	0.43
32:1a:1298:C:OP2	38:1g:114:ARG:NH2	2.52	0.43
32:1a:1403:C:C2	32:1a:1404:5MC:HM52	2.54	0.43
33:1b:59:GLU:HB2	33:1b:221:LEU:HD11	2.01	0.43
34:1c:40:ARG:HG3	34:1c:57:ILE:HD11	1.99	0.43
36:1e:12:LEU:HB3	36:1e:31:LEU:HB2	2.00	0.43
1:2A:514:A:N3	1:2A:581:C:O2'	2.44	0.43
1:2A:568:U:H5'	1:2A:945:A:N1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:729:G:C6	3:2D:208:LYS:HB2	2.53	0.43
1:2A:817:C:OP1	61:2A:3985:HOH:O	2.21	0.43
1:2A:1010:A:H1'	1:2A:1153:C:H1'	2.01	0.43
1:2A:1142:U:O5'	1:2A:1142:U:H6	2.02	0.43
1:2A:1297:C:OP1	1:2A:2710:C:H4'	2.18	0.43
1:2A:1418:G:H2'	1:2A:1579:A:N6	2.34	0.43
1:2A:1487:G:H2'	1:2A:1488:G:O4'	2.18	0.43
1:2A:1759:A:H1'	1:2A:2711:A:C2	2.52	0.43
1:2A:1814:G:C4'	3:2D:51:VAL:HG21	2.48	0.43
1:2A:1848:A:C6	32:2a:702:A:C6	3.06	0.43
1:2A:2097:C:H2'	1:2A:2098:U:H6	1.82	0.43
1:2A:2125:G:H1'	1:2A:2173:A:N6	2.32	0.43
1:2A:2126:A:N6	1:2A:2162:G:O2'	2.37	0.43
1:2A:2872:G:O2'	1:2A:2873:A:H5'	2.18	0.43
4:2E:33:VAL:HG22	4:2E:89:ASP:O	2.18	0.43
9:2N:34:LEU:O	9:2N:49:GLY:HA3	2.18	0.43
9:2N:73:THR:OG1	9:2N:82:LEU:HD11	2.18	0.43
10:2O:93:PRO:C	10:2O:95:GLY:H	2.26	0.43
19:2X:36:LYS:HE2	19:2X:56:THR:OG1	2.18	0.43
32:2a:532:A:N6	32:2a:1206:G:O2'	2.51	0.43
32:2a:926:G:H22	53:2v:15:A:H3'	1.84	0.43
32:2a:1417:G:C6	32:2a:1482:G:C6	3.07	0.43
37:2f:70:ASP:OD1	37:2f:70:ASP:N	2.50	0.43
40:2i:126:SER:C	40:2i:128:ARG:H	2.26	0.43
44:2m:85:GLY:HA2	44:2m:93:ARG:HH22	1.79	0.43
1:1A:271(F):C:H2'	1:1A:271(G):C:H6	1.84	0.43
1:1A:493:G:H2'	1:1A:494:G:O4'	2.18	0.43
1:1A:699:A:H2'	1:1A:700:G:O4'	2.19	0.43
1:1A:729:G:N7	3:1D:210:GLY:N	2.63	0.43
1:1A:829:A:N7	1:1A:2248:C:H5'	2.33	0.43
1:1A:2319:G:OP1	1:1A:2319:G:H3'	2.19	0.43
1:1A:2822:G:O2'	1:1A:2824:C:OP2	2.31	0.43
6:1G:73:ALA:HA	6:1G:88:ILE:HD11	2.00	0.43
11:1P:8:PRO:HB2	11:1P:12:ALA:HB3	2.01	0.43
19:1X:9:LEU:HA	24:12:36:ARG:HH21	1.83	0.43
32:1a:56:U:H2'	32:1a:57:G:C8	2.53	0.43
32:1a:863:U:O2'	32:1a:865:A:N7	2.50	0.43
32:1a:1338:G:C6	32:1a:1339:A:C6	3.07	0.43
32:1a:1346:A:N6	32:1a:1375:A:OP2	2.41	0.43
37:1f:15:ASP:OD1	37:1f:18:GLN:N	2.27	0.43
54:1w:19:G:H4'	54:1w:20:U:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:1y:63:G:H2'	56:1y:64:A:O4'	2.18	0.43
1:2A:263:C:H2'	1:2A:264:C:O4'	2.19	0.43
1:2A:1203:G:OP2	1:2A:1204:A:O2'	2.19	0.43
1:2A:1582:C:H2'	1:2A:1583:A:C8	2.54	0.43
1:2A:2059:A:O2'	5:2F:69:HIS:HD2	2.02	0.43
1:2A:2831:G:O2'	1:2A:2883:A:H2'	2.19	0.43
2:2B:13:A:C2	2:2B:16:G:H1'	2.53	0.43
3:2D:60:ARG:HD3	3:2D:86:PRO:HB2	2.00	0.43
6:2G:53:LEU:HD22	6:2G:53:LEU:HA	1.85	0.43
8:2I:55:ALA:O	8:2I:58:LEU:HB3	2.19	0.43
25:23:6:VAL:HG22	25:23:56:VAL:HG22	2.01	0.43
25:23:46:ASN:O	25:23:50:VAL:HG22	2.18	0.43
26:24:24:THR:OG1	26:24:25:TYR:N	2.49	0.43
32:2a:299:G:H8	32:2a:299:G:O5'	2.02	0.43
32:2a:397:A:H3'	32:2a:397:A:N3	2.34	0.43
32:2a:743:U:H2'	32:2a:744:C:H6	1.83	0.43
32:2a:806:C:H2'	32:2a:807:A:C8	2.53	0.43
32:2a:1125:U:H6	32:2a:1126:U:O2'	2.02	0.43
32:2a:1305:G:H5'	52:2u:4:GLY:CA	2.49	0.43
33:2b:17:PHE:HA	33:2b:44:LEU:HD21	2.01	0.43
36:2e:28:PHE:O	36:2e:47:LYS:HA	2.18	0.43
38:2g:16:LEU:HD22	40:2i:42:ARG:HA	2.00	0.43
38:2g:146:GLU:HG2	38:2g:149:ARG:NE	2.33	0.43
39:2h:103:VAL:HG21	39:2h:109:ILE:C	2.44	0.43
42:2k:73:MET:HG2	42:2k:103:LEU:HD21	2.01	0.43
44:2m:60:VAL:HG13	44:2m:64:TRP:HE3	1.83	0.43
56:2y:26:A:C2	56:2y:44:G:N1	2.85	0.43
1:1A:182:A:H2	1:1A:433:C:O2	2.02	0.43
1:1A:818:G:H4'	1:1A:838:C:O3'	2.18	0.43
1:1A:1303:G:O2'	1:1A:1642:G:O2'	2.32	0.43
1:1A:1667:G:O2'	1:1A:1991:U:O4	2.25	0.43
1:1A:1913:A:H4'	1:1A:1914:C:H5"	2.01	0.43
1:1A:2001:A:H4'	1:1A:2689:U:H2'	2.00	0.43
5:1F:170:LEU:HD13	5:1F:172:TRP:CZ2	2.54	0.43
10:1O:36:GLY:HA2	10:1O:106:LEU:HD23	2.00	0.43
24:12:16:LEU:HD13	24:12:20:GLU:HB3	2.00	0.43
32:1a:193:C:H2'	32:1a:194:C:C6	2.53	0.43
32:1a:575:G:O2'	32:1a:821:G:H5'	2.19	0.43
32:1a:674:G:H2'	32:1a:675:A:C8	2.54	0.43
39:1h:95:VAL:HB	39:1h:99:GLU:HB2	1.99	0.43
56:1y:60:U:O2'	56:1y:61:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:330:A:H2	1:2A:1210:A:O2'	2.02	0.43
1:2A:655:A:H8	1:2A:656:G:O4'	2.02	0.43
1:2A:1507:A:O2'	1:2A:1508:A:O5'	2.21	0.43
1:2A:1598:C:H2'	1:2A:1599:C:H6	1.83	0.43
1:2A:2115:G:O2'	1:2A:2117:A:N7	2.42	0.43
1:2A:2286:A:H2	28:26:25:LYS:HA	1.83	0.43
1:2A:2391:G:O6	1:2A:2425:A:H8	2.02	0.43
1:2A:2849:U:OP2	15:2T:95:ARG:NH1	2.52	0.43
2:2B:83:G:N1	2:2B:94:C:N3	2.55	0.43
2:2B:94:C:H2'	2:2B:95:C:C6	2.54	0.43
5:2F:183:VAL:O	5:2F:187:VAL:HG23	2.18	0.43
7:2H:83:TYR:CE2	7:2H:138:LYS:HB2	2.53	0.43
14:2S:3:ARG:HA	14:2S:3:ARG:HD2	1.78	0.43
17:2V:74:LYS:HB2	17:2V:83:ARG:HB2	1.99	0.43
20:2Y:5:MET:HG2	20:2Y:30:VAL:HG11	2.00	0.43
32:2a:328:C:H4'	32:2a:329:A:H5'	2.01	0.43
32:2a:979:C:O2	45:2n:19:ARG:NE	2.40	0.43
32:2a:1002:G:H1	32:2a:1038:C:H42	1.67	0.43
32:2a:1095:U:H2'	32:2a:1096:C:O4'	2.18	0.43
32:2a:1502:A:C8	32:2a:1505:G:N2	2.86	0.43
36:2e:9:LYS:HA	36:2e:9:LYS:HD2	1.77	0.43
42:2k:45:GLY:O	42:2k:50:TYR:HB2	2.19	0.43
47:2p:3:LYS:O	47:2p:21:VAL:HA	2.18	0.43
56:2y:55:PSU:N1	56:2y:57:G:H5"	2.24	0.43
1:1A:181:A:H5"	29:17:36:GLN:NE2	2.34	0.43
1:1A:581:C:H5"	61:1U:306:HOH:O	2.18	0.43
1:1A:626:U:O4	11:1P:107:LYS:HE2	2.19	0.43
1:1A:1006:C:C2	1:1A:1138:G:N2	2.87	0.43
1:1A:1055:G:H2'	1:1A:1056:G:O4'	2.19	0.43
1:1A:1087:G:H2'	1:1A:1089:G:O4'	2.18	0.43
1:1A:1174:A:H1'	1:1A:1175:U:O5'	2.18	0.43
1:1A:2100:G:H2'	1:1A:2101:G:C8	2.52	0.43
1:1A:2131:G:N2	1:1A:2133:G:N3	2.66	0.43
5:1F:123:LEU:HD13	5:1F:192:LEU:HB3	2.00	0.43
8:1I:41:GLU:HA	8:1I:44:LEU:HB2	2.01	0.43
10:1O:24:VAL:HG13	10:1O:33:ALA:HB2	2.00	0.43
13:1R:57:ARG:NE	13:1R:59:ASP:OD1	2.51	0.43
24:12:36:ARG:NH1	61:12:201:HOH:O	2.18	0.43
26:14:2:LYS:HD2	26:14:5:ILE:HD13	2.01	0.43
32:1a:14:U:H2'	32:1a:16:A:OP2	2.19	0.43
32:1a:581:G:H8	32:1a:581:G:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:667:G:H4'	46:1o:51:HIS:CE1	2.53	0.43
32:1a:865:A:H5'	32:1a:1078:U:C5	2.54	0.43
32:1a:1030(A):G:O2'	32:1a:1031:G:N2	2.52	0.43
32:1a:1286:A:C8	32:1a:1287:A:H4'	2.54	0.43
32:1a:1512:U:H2'	32:1a:1513:A:C8	2.54	0.43
33:1b:88:ALA:HB2	33:1b:219:VAL:HG22	2.00	0.43
39:1h:72:PRO:O	39:1h:74:PRO:HD3	2.18	0.43
42:1k:33:THR:HA	42:1k:39:PRO:HA	2.00	0.43
44:1m:20:THR:HA	44:1m:25:ILE:O	2.19	0.43
47:1p:28:ARG:NE	47:1p:29:ASP:OD1	2.37	0.43
49:1r:25:THR:O	49:1r:26:LEU:HD12	2.18	0.43
1:2A:652:C:O2'	1:2A:652(A):A:H5'	2.18	0.43
1:2A:712:G:H1	1:2A:719:C:H42	1.66	0.43
1:2A:2659:G:O2'	1:2A:2661:G:N7	2.43	0.43
2:2B:43:C:H5"	26:24:1:MET:HB3	2.01	0.43
32:2a:447:G:C6	32:2a:485:G:H1'	2.53	0.43
32:2a:502:G:H4'	32:2a:550:G:H4'	2.01	0.43
32:2a:1191:A:H5"	32:2a:1192:C:OP2	2.18	0.43
32:2a:1268:A:H4'	52:2u:19:GLY:HA2	2.00	0.43
37:2f:46:ARG:HD2	37:2f:46:ARG:HA	1.83	0.43
44:2m:29:ARG:HD3	44:2m:64:TRP:CE2	2.53	0.43
56:2y:35:A:H3'	56:2y:36:A:C8	2.54	0.43
1:1A:26:G:H1'	1:1A:515:A:H61	1.83	0.43
1:1A:109:G:H2'	1:1A:110:G:O4'	2.19	0.43
1:1A:671:C:N4	61:1A:4669:HOH:O	2.52	0.43
1:1A:1073:A:C6	1:1A:1074:G:C8	3.07	0.43
1:1A:1718:G:C2'	1:1A:1719:G:H5'	2.49	0.43
1:1A:1934:C:H4'	1:1A:1974:C:O3'	2.19	0.43
1:1A:2746:U:OP1	7:1H:85:LYS:NZ	2.30	0.43
14:1S:7:TYR:CZ	14:1S:91:PRO:HG3	2.54	0.43
20:1Y:7:VAL:HG21	20:1Y:72:VAL:CG1	2.49	0.43
32:1a:44:G:C6	32:1a:45:U:C2	3.07	0.43
32:1a:167:G:H2'	32:1a:168:G:C8	2.53	0.43
32:1a:952:U:H2'	32:1a:953:G:C8	2.53	0.43
32:1a:1053:G:O5'	32:1a:1054:C:H3'	2.19	0.43
32:1a:1243:C:H2'	32:1a:1244:C:C6	2.54	0.43
32:1a:1410:G:H2'	32:1a:1411:C:C6	2.54	0.43
39:1h:86:ILE:HG13	39:1h:133:LEU:HD22	2.01	0.43
46:1o:7:GLU:O	46:1o:11:VAL:HG23	2.19	0.43
55:1x:68:C:H2'	55:1x:69:C:H6	1.84	0.43
56:1y:6:G:C2'	56:1y:7:A:H5'	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1011:G:OP1	16:2U:77:SER:OG	2.32	0.43
1:2A:1268:A:C2	1:2A:2013:A:C4	3.06	0.43
1:2A:1508:A:H4'	1:2A:1509(A):A:N7	2.34	0.43
1:2A:1993:U:H4'	4:2E:128:SER:OG	2.18	0.43
1:2A:2059:A:H2'	1:2A:2503:2MA:HM23	2.00	0.43
1:2A:2273:A:O2'	1:2A:2274:A:H5'	2.19	0.43
1:2A:2816:C:H2'	1:2A:2817:G:H8	1.84	0.43
2:2B:75:G:H22	21:2Z:73:GLN:NE2	2.17	0.43
6:2G:47:LYS:HG3	6:2G:48:GLU:H	1.83	0.43
21:2Z:151:HIS:HD2	21:2Z:168:GLU:C	2.27	0.43
29:27:24:THR:O	29:27:28:ARG:HG3	2.19	0.43
32:2a:155:C:H2'	32:2a:156:G:O4'	2.18	0.43
32:2a:403:C:OP1	35:2d:137:SER:OG	2.31	0.43
32:2a:559:A:H5'	32:2a:559:A:N3	2.34	0.43
32:2a:924:C:O2'	32:2a:1502:A:N1	2.48	0.43
32:2a:1040:U:H2'	32:2a:1041:A:C8	2.54	0.43
32:2a:1240:U:H1'	38:2g:38:LEU:HD21	2.00	0.43
55:2x:61:C:H2'	55:2x:62:C:C6	2.54	0.43
1:1A:593:G:C2	1:1A:665:C:C2	3.07	0.43
1:1A:1011:G:OP2	16:1U:66:ASN:ND2	2.40	0.43
1:1A:2712:U:H2'	1:1A:2714:G:H5"	2.01	0.43
7:1H:42:ARG:HG2	7:1H:44:VAL:HG13	2.01	0.43
12:1Q:77:LYS:NZ	12:1Q:86:GLY:O	2.51	0.43
12:1Q:103:MET:HE1	12:1Q:125:LEU:HD13	2.01	0.43
15:1T:24:PRO:HD3	15:1T:52:ILE:HD12	2.01	0.43
32:1a:99:U:H2'	32:1a:100:C:C6	2.54	0.43
32:1a:116:A:H61	32:1a:313:A:H1'	1.83	0.43
32:1a:232:G:H1'	32:1a:262:A:N1	2.34	0.43
32:1a:407:G:H5"	35:1d:115:ARG:HB3	2.01	0.43
32:1a:593:G:H2'	32:1a:594:G:O4'	2.19	0.43
32:1a:815:A:N7	32:1a:1509:C:O2'	2.48	0.43
32:1a:1004:A:C5'	32:1a:1024:G:H22	2.30	0.43
32:1a:1309:G:H2'	32:1a:1310:G:O4'	2.19	0.43
32:1a:1372:U:OP1	40:1i:72:GLY:N	2.49	0.43
35:1d:158:ILE:O	35:1d:162:LEU:HD12	2.18	0.43
37:1f:69:GLU:H	37:1f:69:GLU:CD	2.27	0.43
38:1g:144:MET:HE1	56:1y:31:A:H1'	2.01	0.43
39:1h:94:TYR:CE1	39:1h:132:GLU:HB2	2.54	0.43
46:1o:82:ILE:O	46:1o:86:GLY:N	2.52	0.43
1:2A:271(U):G:H2'	1:2A:271(V):G:C8	2.54	0.43
1:2A:361:G:O2'	1:2A:362:U:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:379:G:O2'	1:2A:2232:U:OP1	2.34	0.43
1:2A:458:G:O2'	29:27:39:ARG:HD3	2.18	0.43
1:2A:465:G:OP1	61:2A:3984:HOH:O	2.21	0.43
1:2A:570:G:H2'	1:2A:2030:A:C5	2.54	0.43
1:2A:1257:C:H4'	5:2F:83:PHE:CD1	2.53	0.43
1:2A:1832:C:H2'	1:2A:1833:U:O4'	2.19	0.43
1:2A:2107:C:O2	1:2A:2182:G:N1	2.39	0.43
1:2A:2483:C:H2'	1:2A:2484:G:O4'	2.19	0.43
1:2A:2492:U:H2'	1:2A:2493:U:C6	2.54	0.43
1:2A:2532:G:N2	1:2A:2663:G:O2'	2.52	0.43
1:2A:2552:2MU:H2'	1:2A:2554:U:H5"	2.01	0.43
1:2A:2611:U:H6	1:2A:2611:U:H5'	1.84	0.43
21:2Z:92:SER:C	21:2Z:130:PRO:HG3	2.44	0.43
26:24:64:GLY:C	26:24:66:SER:H	2.27	0.43
31:29:29:ASN:HB3	31:29:32:HIS:ND1	2.34	0.43
32:2a:1183:A:O2'	32:2a:1185:G:OP2	2.37	0.43
32:2a:1359:C:H1'	32:2a:1362:C:H41	1.83	0.43
33:2b:92:TYR:N	33:2b:151:GLY:O	2.39	0.43
46:2o:48:LYS:HA	46:2o:48:LYS:HD2	1.74	0.43
1:1A:141:A:C6	1:1A:142:A:N1	2.87	0.42
1:1A:491:G:H2'	1:1A:492:A:C8	2.54	0.42
1:1A:651:G:OP1	30:18:17:THR:OG1	2.35	0.42
1:1A:816:C:H2'	1:1A:817:C:H6	1.84	0.42
1:1A:898:C:N4	1:1A:899:A:H62	2.17	0.42
1:1A:1385:G:O2'	1:1A:1396:U:O2	2.29	0.42
1:1A:2183:C:HO2'	1:1A:2184:G:P	2.40	0.42
1:1A:2291:U:OP1	1:1A:2380:C:O2'	2.34	0.42
3:1D:134:ARG:HG3	3:1D:135:PHE:CE1	2.54	0.42
6:1G:132:ASN:HA	6:1G:157:ILE:O	2.19	0.42
7:1H:103:LEU:HD21	7:1H:131:VAL:HG11	2.00	0.42
21:1Z:130:PRO:HA	21:1Z:133:ILE:HG13	2.01	0.42
29:17:33:ARG:NH2	61:17:202:HOH:O	2.50	0.42
32:1a:693:G:H2'	32:1a:694:A:C8	2.54	0.42
32:1a:947:G:H4'	44:1m:109:THR:HG23	2.01	0.42
32:1a:1086:U:H2'	32:1a:1087:G:H8	1.84	0.42
32:1a:1367:C:H4'	41:1j:48:THR:HG21	2.01	0.42
39:1h:81:HIS:N	39:1h:138:TRP:O	2.52	0.42
1:2A:9:U:N3	1:2A:2629:A:C2	2.86	0.42
1:2A:86:C:H4'	1:2A:104:U:H1'	2.00	0.42
1:2A:290:G:H2'	1:2A:291:C:O4'	2.19	0.42
1:2A:416:C:H2'	1:2A:417:C:O4'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1034:G:O6	61:2A:3949:HOH:O	2.15	0.42
1:2A:1283:G:N2	1:2A:1285:G:H3'	2.33	0.42
1:2A:2035:G:P	1:2A:2036:C:H41	2.42	0.42
1:2A:2168:G:C8	1:2A:2170:A:C8	3.07	0.42
1:2A:2783:G:H2'	1:2A:2784:C:C6	2.55	0.42
2:2B:17:C:H2'	2:2B:18:G:O4'	2.18	0.42
4:2E:101:ARG:HG2	4:2E:169:ASN:CG	2.44	0.42
5:2F:130:ALA:HB3	5:2F:142:TRP:HD1	1.83	0.42
25:23:3:ARG:HB3	25:23:59:VAL:HG23	2.01	0.42
25:23:4:LEU:O	25:23:36:VAL:HA	2.20	0.42
32:2a:43:C:OP1	61:2a:1925:HOH:O	2.20	0.42
32:2a:269:C:H2'	32:2a:270:A:H8	1.84	0.42
32:2a:557:G:N1	32:2a:558:G:C2	2.87	0.42
32:2a:1064:G:O2'	32:2a:1190:G:N2	2.52	0.42
32:2a:1073:U:H2'	32:2a:1074:G:C8	2.53	0.42
32:2a:1103:C:P	33:2b:96:ARG:HH22	2.41	0.42
32:2a:1338:G:C6	32:2a:1339:A:C6	3.07	0.42
33:2b:97:TRP:CH2	33:2b:102:LEU:HD13	2.51	0.42
38:2g:42:ILE:HG22	38:2g:120:ILE:HD12	2.01	0.42
41:2j:78:ASN:C	41:2j:80:LYS:N	2.77	0.42
54:2w:24:G:H2'	54:2w:25:C:O4'	2.18	0.42
1:1A:1059:G:O6	1:1A:1088:A:H1'	2.19	0.42
1:1A:1365:A:O4'	23:11:41:ARG:NH2	2.52	0.42
2:1B:13:A:O2'	2:1B:15:A:H2'	2.19	0.42
3:1D:37:LEU:HD22	3:1D:87:ASN:ND2	2.34	0.42
11:1P:90:ARG:NH1	11:1P:105:LEU:HD11	2.34	0.42
13:1R:86:ARG:NH2	13:1R:117:VAL:O	2.52	0.42
16:1U:50:ARG:HB2	16:1U:53:ARG:NH2	2.35	0.42
16:1U:92:ARG:HA	16:1U:95:LEU:HB2	2.01	0.42
17:1V:60:GLU:HB2	17:1V:97:LYS:HE2	2.00	0.42
18:1W:10:VAL:HG12	18:1W:12:ILE:HG22	2.02	0.42
19:1X:53:LYS:HB3	19:1X:82:GLN:HB3	2.00	0.42
32:1a:1304:G:C6	32:1a:1305:G:N1	2.87	0.42
32:1a:1356:G:O6	61:1a:1930:HOH:O	2.20	0.42
32:1a:1367:C:OP1	40:1i:115:GLY:N	2.51	0.42
36:1e:77:PRO:HD2	36:1e:142:LEU:HD13	2.00	0.42
54:1w:33:U:H2'	54:1w:35:A:OP2	2.19	0.42
56:1y:56:C:H2'	56:1y:57:G:O4'	2.20	0.42
1:2A:247:G:H4'	1:2A:386:G:C6	2.54	0.42
1:2A:317:G:H2'	1:2A:318:C:O4'	2.19	0.42
1:2A:649:G:C6	1:2A:650:C:C4	3.06	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:852:G:H2'	1:2A:853:G:C8	2.51	0.42
1:2A:971:C:H2'	1:2A:972:G:O4'	2.19	0.42
1:2A:1790:C:H2'	1:2A:1791:A:C5	2.54	0.42
1:2A:2031:A:C6	1:2A:2498:C:H1'	2.54	0.42
1:2A:2540:C:H2'	1:2A:2541:A:O4'	2.18	0.42
2:2B:73:A:C4	2:2B:105:A:C2	3.08	0.42
4:2E:174:ASP:OD1	4:2E:175:VAL:N	2.52	0.42
19:2X:12:VAL:HG22	19:2X:29:TRP:CE2	2.54	0.42
21:2Z:3:TYR:O	21:2Z:57:ILE:HA	2.19	0.42
28:26:51:GLU:O	28:26:51:GLU:HG3	2.18	0.42
32:2a:167:G:H2'	32:2a:168:G:H8	1.84	0.42
32:2a:340:U:C2	32:2a:350:G:C2	3.07	0.42
32:2a:429:U:H3'	35:2d:9:CYS:SG	2.60	0.42
32:2a:689:C:P	42:2k:46:GLY:HA3	2.59	0.42
32:2a:859:A:H2'	32:2a:860:A:O4'	2.19	0.42
32:2a:942:G:C2	32:2a:1342:C:C2	3.08	0.42
32:2a:1005:A:H1'	32:2a:1025:U:N3	2.35	0.42
32:2a:1029:C:N3	32:2a:1032:G:C2	2.87	0.42
32:2a:1129:C:P	40:2i:16:ARG:HH12	2.42	0.42
32:2a:1236:A:O2'	32:2a:1304:G:H4'	2.19	0.42
32:2a:1525:G:H2'	32:2a:1526:G:O4'	2.19	0.42
35:2d:143:GLY:N	35:2d:185:PHE:O	2.43	0.42
39:2h:9:MET:HG3	39:2h:26:VAL:HG11	2.00	0.42
40:2i:3:GLN:NE2	40:2i:20:ARG:HE	2.06	0.42
40:2i:86:VAL:HG11	40:2i:93:ARG:NE	2.33	0.42
44:2m:62:ASN:N	44:2m:62:ASN:OD1	2.52	0.42
45:2n:39:LEU:HD11	45:2n:47:LEU:HD12	2.01	0.42
47:2p:60:LEU:HD12	47:2p:60:LEU:HA	1.91	0.42
56:2y:18:G:H4'	56:2y:60:U:C5	2.53	0.42
1:1A:278:A:HO2'	1:1A:279:C:P	2.37	0.42
1:1A:280:C:H2'	1:1A:281:G:O4'	2.18	0.42
1:1A:515:A:H1'	1:1A:581:C:H1'	2.01	0.42
1:1A:675:A:N3	1:1A:2443:C:O2'	2.46	0.42
1:1A:1059:G:N2	1:1A:1079:C:N3	2.57	0.42
1:1A:1426:G:C6	1:1A:1427:A:C6	3.08	0.42
1:1A:1486:A:H2'	1:1A:1487:G:C8	2.54	0.42
1:1A:2390:U:P	30:18:35:GLN:HE22	2.43	0.42
4:1E:101:ARG:HG2	4:1E:169:ASN:CG	2.44	0.42
5:1F:202:PHE:O	5:1F:206:ILE:HG12	2.20	0.42
6:1G:18:GLU:O	6:1G:22:ARG:HG3	2.18	0.42
6:1G:126:ASP:HB2	6:1G:130:ASN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1S:110:LEU:HD12	14:1S:110:LEU:HA	1.80	0.42
30:18:28:GLY:O	30:18:36:LYS:NZ	2.52	0.42
32:1a:194:C:C2'	32:1a:195:A:H5"	2.49	0.42
32:1a:611:A:N6	32:1a:629:G:H1	2.16	0.42
32:1a:679:C:H2'	32:1a:680:C:H6	1.84	0.42
32:1a:685:G:N1	32:1a:704:A:OP2	2.48	0.42
32:1a:892:A:H2'	32:1a:893:C:C6	2.55	0.42
32:1a:1464:G:H2'	32:1a:1465:C:C6	2.54	0.42
33:1b:15:VAL:HG11	33:1b:213:LEU:HD22	2.00	0.42
34:1c:6:HIS:HD2	34:1c:8:ILE:H	1.66	0.42
48:1q:67:LYS:HA	48:1q:70:ARG:HH22	1.84	0.42
50:1s:51:VAL:N	50:1s:58:VAL:O	2.40	0.42
55:1x:23:C:H2'	55:1x:24:U:H6	1.84	0.42
56:1y:58:A:N3	56:1y:60:U:C5	2.87	0.42
1:2A:248:G:O5'	1:2A:249:C:H5"	2.20	0.42
1:2A:1466:G:H2'	1:2A:1547:C:H41	1.84	0.42
1:2A:1668:A:C8	1:2A:1674:G:C6	3.07	0.42
1:2A:2299:G:H2'	1:2A:2300:G:C8	2.51	0.42
1:2A:2794:C:N4	1:2A:2802:G:O6	2.51	0.42
4:2E:12:THR:HG21	15:2T:11:GLU:HG2	2.01	0.42
6:2G:28:VAL:O	6:2G:31:VAL:HG12	2.18	0.42
12:2Q:79:LEU:HD23	12:2Q:79:LEU:HA	1.90	0.42
17:2V:58:VAL:O	17:2V:97:LYS:N	2.50	0.42
28:26:38:LYS:HB3	28:26:38:LYS:HE3	1.79	0.42
32:2a:517:G:N3	32:2a:531:U:H5'	2.35	0.42
32:2a:547:A:H4'	32:2a:548:G:O5'	2.19	0.42
32:2a:841:U:H6	32:2a:841:U:P	2.42	0.42
32:2a:1060:C:C5'	41:2j:51:ARG:HB3	2.50	0.42
32:2a:1120:G:C6	32:2a:1121:U:C4	3.07	0.42
32:2a:1304:G:C5	32:2a:1305:G:C6	3.07	0.42
44:2m:80:ARG:HH22	50:2s:69:HIS:CE1	2.33	0.42
46:2o:55:GLY:HA2	46:2o:58:MET:HE3	2.01	0.42
51:2t:53:LEU:HB2	51:2t:100:ILE:HD11	2.01	0.42
52:2u:5:ASP:O	52:2u:11:GLY:HA3	2.19	0.42
1:1A:360:G:H2'	1:1A:361:G:C8	2.54	0.42
1:1A:388:G:O2'	1:1A:389:G:N7	2.52	0.42
1:1A:442:G:C4'	5:1F:46:ARG:HG3	2.49	0.42
1:1A:700:G:O2'	1:1A:1632:A:N3	2.39	0.42
1:1A:751:A:C6	1:1A:789:A:C5	3.08	0.42
1:1A:752:A:H3'	29:17:1:MET:HE1	2.00	0.42
1:1A:832:G:H5'	11:1P:45:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:839:U:H1'	1:1A:1191:G:H1'	2.01	0.42
1:1A:886:C:O2'	1:1A:890:A:N6	2.52	0.42
1:1A:980:A:C4	1:1A:1136:G:O4'	2.72	0.42
1:1A:1413:G:H2'	1:1A:1414:G:O4'	2.20	0.42
1:1A:1635:G:N2	61:1A:4656:HOH:O	2.51	0.42
1:1A:1756:G:H4'	1:1A:1758:G:O4'	2.20	0.42
1:1A:1827:C:C2'	1:1A:1828:G:H5'	2.50	0.42
1:1A:1919:A:O3'	32:1a:1517:G:H1'	2.19	0.42
1:1A:2279:G:O6	22:10:14:ARG:HG3	2.19	0.42
1:1A:2389:G:H5"	1:1A:2390:U:O4'	2.19	0.42
7:1H:154:PRO:HB3	7:1H:163:TYR:CZ	2.54	0.42
8:1I:47:LEU:HD23	8:1I:47:LEU:HA	1.86	0.42
31:19:7:VAL:HG12	31:19:34:GLN:HB3	2.02	0.42
32:1a:130:A:O2'	32:1a:131:C:O5'	2.27	0.42
32:1a:255:G:OP1	48:1q:69:LYS:NZ	2.40	0.42
32:1a:509:A:O2'	32:1a:510:A:OP1	2.26	0.42
32:1a:1015:A:H2'	32:1a:1016:A:C8	2.55	0.42
32:1a:1349:A:OP1	40:1i:118:LYS:HB2	2.19	0.42
32:1a:1356:G:H2'	32:1a:1357:A:H8	1.82	0.42
32:1a:1442:G:O2'	32:1a:1442(A):G:H5'	2.20	0.42
33:1b:24:TRP:H	33:1b:24:TRP:HD1	1.66	0.42
43:1l:7:ILE:HD13	43:1l:7:ILE:HA	1.85	0.42
50:1s:40:ILE:HA	50:1s:44:MET:SD	2.60	0.42
54:1w:1:G:H2'	54:1w:2:C:C6	2.55	0.42
54:1w:66:U:H4'	61:1w:214:HOH:O	2.18	0.42
1:2A:271(P):C:H4'	8:2I:42:SER:O	2.19	0.42
1:2A:572:A:OP2	17:2V:78:LYS:NZ	2.49	0.42
1:2A:881:G:H3'	1:2A:882:G:H8	1.83	0.42
1:2A:1754:C:H2'	1:2A:1755:A:O4'	2.19	0.42
1:2A:1915:5MU:H2'	1:2A:1916:A:O4'	2.18	0.42
20:2Y:20:TYR:HB3	20:2Y:23:ARG:HG3	2.01	0.42
24:22:35:LEU:HD12	24:22:53:LEU:HD12	2.00	0.42
32:2a:37:U:O2'	32:2a:500:G:H4'	2.20	0.42
32:2a:517:G:H22	32:2a:533:A:P	2.43	0.42
32:2a:792:A:H4'	32:2a:793:U:C5'	2.50	0.42
32:2a:1049:U:C5	32:2a:1201:A:H5'	2.54	0.42
32:2a:1074:G:C6	32:2a:1075:C:C4	3.08	0.42
32:2a:1110:A:H8	32:2a:1110:A:O5'	2.02	0.42
32:2a:1256:A:H61	32:2a:1278:U:C2'	2.32	0.42
32:2a:1412:C:H2'	32:2a:1413:A:C8	2.55	0.42
32:2a:1512:U:H2'	32:2a:1513:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:48:MET:SD	33:2b:49:GLU:N	2.93	0.42
33:2b:112:VAL:HG12	33:2b:113:HIS:ND1	2.34	0.42
34:2c:164:ARG:HG2	34:2c:165:THR:H	1.84	0.42
44:2m:97:PRO:HA	44:2m:110:ARG:HD3	2.02	0.42
48:2q:17:LYS:HD3	48:2q:47:PRO:HA	2.02	0.42
55:2x:37:A:H2'	55:2x:38:A:O4'	2.19	0.42
1:1A:225:A:O2'	1:1A:257:A:H4'	2.20	0.42
1:1A:271(F):C:H2'	1:1A:271(G):C:C6	2.54	0.42
1:1A:272(G):C:N4	1:1A:363(C):G:H1	2.04	0.42
1:1A:288:C:H2'	1:1A:289:A:H8	1.83	0.42
1:1A:2232:U:P	23:11:40:ARG:HH12	2.42	0.42
1:1A:2319:G:N2	14:1S:3:ARG:HA	2.35	0.42
1:1A:2512:C:H2'	1:1A:2513:G:O4'	2.20	0.42
13:1R:12:ARG:HB3	13:1R:16:HIS:HB3	2.02	0.42
15:1T:46:GLU:OE2	15:1T:89:VAL:HG21	2.20	0.42
21:1Z:76:LEU:HD23	21:1Z:83:PRO:HA	2.02	0.42
32:1a:160:A:H2'	32:1a:161:A:O4'	2.19	0.42
32:1a:413:G:O6	35:1d:35:ARG:HD3	2.18	0.42
32:1a:667:G:H4'	46:1o:51:HIS:ND1	2.35	0.42
32:1a:1429:C:H2'	32:1a:1430:C:H6	1.83	0.42
34:1c:121:ALA:O	34:1c:125:GLU:HG3	2.19	0.42
44:1m:23:TYR:HB3	44:1m:67:GLU:HA	2.01	0.42
1:2A:632:A:H2'	1:2A:633:A:C8	2.55	0.42
1:2A:764:A:OP1	3:2D:210:GLY:HA3	2.19	0.42
1:2A:783:A:C5	1:2A:785:G:H1'	2.55	0.42
1:2A:863:A:C2	1:2A:864:G:C4	3.08	0.42
1:2A:987:G:O2'	1:2A:1000:A:N3	2.48	0.42
1:2A:1637:A:H4'	1:2A:2711:A:O2'	2.20	0.42
1:2A:2081:C:O2'	61:2A:3987:HOH:O	2.22	0.42
1:2A:2131:G:H22	1:2A:2158:A:H61	1.65	0.42
1:2A:2134:A:H62	1:2A:2157:G:H1'	1.85	0.42
2:2B:31:C:H4'	6:2G:29:TRP:CZ2	2.55	0.42
7:2H:103:LEU:HB3	7:2H:115:VAL:HB	2.01	0.42
20:2Y:99:CYS:SG	20:2Y:101:LYS:HB2	2.60	0.42
21:2Z:9:TYR:OH	21:2Z:61:LEU:HD23	2.19	0.42
30:28:4:MET:HE3	30:28:63:PRO:HG3	2.00	0.42
32:2a:109:A:H2'	32:2a:326:G:N2	2.33	0.42
32:2a:193:C:H2'	32:2a:194:C:C6	2.54	0.42
32:2a:303:A:H2'	32:2a:304:U:O4'	2.19	0.42
32:2a:501:C:OP1	43:2l:124:LYS:HD2	2.19	0.42
32:2a:857:C:H2'	32:2a:858:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:79:ASP:HA	33:2b:82:ARG:HG2	2.00	0.42
35:2d:8:VAL:HG22	35:2d:21:LEU:HD13	2.01	0.42
38:2g:54:THR:O	38:2g:56:GLN:N	2.50	0.42
38:2g:59:LEU:O	38:2g:63:LYS:N	2.53	0.42
39:2h:8:ASP:O	39:2h:12:ARG:HG3	2.20	0.42
1:1A:576:U:H2'	1:1A:577:G:C8	2.55	0.42
1:1A:952:G:C6	1:1A:953:A:N7	2.87	0.42
3:1D:107:ALA:O	61:1D:402:HOH:O	2.22	0.42
6:1G:99:MET:HE2	6:1G:99:MET:HB3	1.98	0.42
23:11:7:ILE:HG21	23:11:69:LYS:HB3	2.01	0.42
32:1a:942:G:C2	32:1a:1342:C:C2	3.08	0.42
32:1a:1051:C:H2'	32:1a:1052:U:C6	2.55	0.42
32:1a:1168:A:H8	32:1a:1168:A:OP1	2.03	0.42
32:1a:1241:G:H2'	32:1a:1242:C:C6	2.54	0.42
32:1a:1324:A:H2'	32:1a:1325:C:O4'	2.20	0.42
32:1a:1347:G:C8	40:1i:107:ARG:HB3	2.55	0.42
35:1d:122:ARG:HD2	35:1d:122:ARG:HA	1.81	0.42
36:1e:75:THR:HG23	36:1e:76:ILE:O	2.19	0.42
36:1e:128:PRO:HA	36:1e:131:ILE:HB	2.01	0.42
47:1p:14:ASN:HA	47:1p:42:ARG:NH2	2.35	0.42
1:2A:143:G:H2'	1:2A:143(A):C:C6	2.53	0.42
1:2A:568:U:H5'	1:2A:945:A:C6	2.54	0.42
1:2A:612:C:H2'	1:2A:613:G:O4'	2.19	0.42
1:2A:1027:A:C6	1:2A:1126:A:C4	3.07	0.42
1:2A:1183:G:H5"	25:23:30:ARG:HH22	1.84	0.42
1:2A:1665:A:H2'	1:2A:1666:G:O4'	2.19	0.42
1:2A:2243:U:H2'	1:2A:2244:U:C6	2.54	0.42
1:2A:2469:A:H3'	1:2A:2470:G:C8	2.54	0.42
1:2A:2592:G:H2'	1:2A:2593:U:O4'	2.20	0.42
4:2E:54:GLN:NE2	4:2E:76:ARG:HG2	2.33	0.42
6:2G:144:ILE:HD13	6:2G:144:ILE:HA	1.77	0.42
23:21:85:LEU:HD13	23:21:89:GLU:HB3	2.00	0.42
24:22:58:ALA:O	24:22:62:THR:OG1	2.36	0.42
32:2a:401:C:H2'	32:2a:402:G:H8	1.85	0.42
32:2a:426:G:H2'	32:2a:427:U:O4'	2.20	0.42
32:2a:1144:G:H21	32:2a:1146:A:H62	1.67	0.42
33:2b:146:GLN:O	33:2b:150:SER:HB3	2.19	0.42
34:2c:3:ASN:OD1	34:2c:3:ASN:N	2.53	0.42
34:2c:16:ARG:HA	34:2c:16:ARG:HD3	1.72	0.42
37:2f:8:ILE:HD11	37:2f:79:LEU:HD13	2.01	0.42
37:2f:83:ASP:N	37:2f:83:ASP:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:2f:97:PHE:HD2	49:2r:31:LEU:HD13	1.85	0.42
40:2i:99:LEU:HB3	40:2i:101:PHE:HE2	1.83	0.42
1:1A:1341:U:C2	19:1X:80:ILE:HD12	2.54	0.42
1:1A:1465:G:O2'	1:1A:1545:A:N1	2.46	0.42
1:1A:1859:A:N6	1:1A:1883:G:O2'	2.52	0.42
1:1A:1903:G:OP1	3:1D:241:PRO:HB2	2.20	0.42
1:1A:2701:C:H2'	1:1A:2702:U:H2'	2.02	0.42
1:1A:2818:G:O2'	1:1A:2819:G:H5'	2.20	0.42
17:1V:71:LEU:HD23	17:1V:71:LEU:HA	1.83	0.42
32:1a:134:A:H1'	32:1a:325:A:C5	2.55	0.42
32:1a:236:G:H5"	48:1q:42:TYR:OH	2.19	0.42
32:1a:300:A:H1'	32:1a:565:U:O2	2.20	0.42
32:1a:993:G:C2'	32:1a:995:C:H41	2.32	0.42
32:1a:1097:C:H2'	32:1a:1098:C:H6	1.85	0.42
32:1a:1169:A:C6	32:1a:1170:A:C6	3.08	0.42
32:1a:1249:C:H4'	40:1i:73:GLN:HE22	1.85	0.42
43:1l:56:ALA:O	43:1l:58:VAL:HG23	2.19	0.42
43:1l:77:LEU:HD21	43:1l:107:ALA:HB2	2.01	0.42
1:2A:84:A:H5"	20:2Y:8:LYS:HE3	2.01	0.42
1:2A:861:A:H2'	1:2A:862:G:O4'	2.19	0.42
1:2A:1494:A:C6	1:2A:1495:A:C6	3.08	0.42
1:2A:1598:C:H2'	1:2A:1599:C:C6	2.55	0.42
1:2A:1665:A:H4'	10:2O:67:LYS:HB2	2.00	0.42
1:2A:1814:G:H4'	3:2D:51:VAL:HG21	2.02	0.42
1:2A:1853:A:N1	1:2A:2087:G:H1'	2.34	0.42
1:2A:2270:G:H2'	1:2A:2271:G:O4'	2.20	0.42
5:2F:182:ASN:O	5:2F:186:ILE:HD12	2.19	0.42
21:2Z:150:LEU:HA	21:2Z:150:LEU:HD23	1.83	0.42
28:26:40:CYS:SG	28:26:42:TRP:HB2	2.59	0.42
32:2a:603:U:H2'	32:2a:604:G:C8	2.54	0.42
32:2a:1040:U:C2	32:2a:1041:A:C8	3.08	0.42
32:2a:1234:C:H1'	32:2a:1364:U:O2	2.19	0.42
32:2a:1342:C:H4'	40:2i:125:TYR:HB3	2.02	0.42
32:2a:1508:G:H2'	32:2a:1509:C:C6	2.54	0.42
34:2c:179:ARG:NH1	34:2c:206:GLU:HB2	2.34	0.42
42:2k:108:ILE:O	49:2r:87:ARG:HG2	2.19	0.42
56:2y:34:G:C6	56:2y:35:A:C6	3.07	0.42
1:1A:540:C:H2'	1:1A:541:C:C6	2.54	0.42
1:1A:721:C:H2'	1:1A:722:A:C8	2.54	0.42
1:1A:1045:A:H1'	1:1A:1047:G:C4	2.55	0.42
1:1A:1638:C:OP1	1:1A:2710:C:O2'	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2161:C:O2'	1:1A:2162:G:H5"	2.20	0.42
1:1A:2359:C:H2'	1:1A:2360:A:O4'	2.20	0.42
1:1A:2619:C:H4'	4:1E:151:TYR:O	2.20	0.42
10:1O:25:LEU:HG	10:1O:40:VAL:HG23	2.02	0.42
27:15:9:LYS:HB3	27:15:9:LYS:HE3	1.82	0.42
32:1a:57:G:H2'	32:1a:58:C:O4'	2.19	0.42
32:1a:460:G:N2	32:1a:471:G:OP2	2.42	0.42
32:1a:674:G:H2'	32:1a:675:A:H8	1.83	0.42
32:1a:1054:C:C5	54:1w:34:G:H1'	2.53	0.42
34:1c:141:VAL:HG12	34:1c:146:ALA:HB3	2.01	0.42
38:1g:111:ARG:NE	38:1g:113:GLU:OE2	2.41	0.42
1:2A:648:G:O2'	1:2A:2351:G:OP1	2.25	0.42
1:2A:1339:G:H5"	19:2X:16:LYS:HD3	2.02	0.42
1:2A:1423:G:OP1	1:2A:1492:G:O2'	2.35	0.42
1:2A:1495:A:H1'	1:2A:1579:A:H5'	2.01	0.42
1:2A:2370:G:C6	1:2A:2371:G:C6	3.07	0.42
2:2B:78:A:C2	2:2B:100:A:C4	3.08	0.42
2:2B:113:G:N2	14:2S:45:GLY:O	2.36	0.42
6:2G:68:PRO:HB3	6:2G:92:VAL:HB	2.01	0.42
8:2I:12:LEU:O	8:2I:19:VAL:HG11	2.20	0.42
11:2P:70:GLN:O	11:2P:73:GLY:N	2.48	0.42
12:2Q:97:VAL:HG13	12:2Q:101:ARG:HB3	2.00	0.42
32:2a:154:C:H2'	32:2a:155:C:H6	1.85	0.42
32:2a:292:G:N7	32:2a:293:G:H1'	2.35	0.42
32:2a:1010:G:N2	32:2a:1020:U:HO2'	2.18	0.42
32:2a:1085:U:H3'	32:2a:1086:U:H6	1.85	0.42
32:2a:1227:A:O3'	44:2m:115:LYS:HE2	2.20	0.42
32:2a:1360:A:H8	32:2a:1360:A:OP1	2.03	0.42
33:2b:8:LYS:O	33:2b:9:GLU:HB2	2.19	0.42
37:2f:19:LEU:HD11	37:2f:59:TYR:CG	2.54	0.42
43:2l:27:LEU:HD22	43:2l:33:ARG:HB2	2.01	0.42
46:2o:22:THR:C	46:2o:27:VAL:HG21	2.45	0.42
1:1A:303:U:H2'	1:1A:304:G:C8	2.54	0.42
1:1A:330:A:H8	1:1A:1210:A:C4	2.38	0.42
1:1A:359:A:H2'	1:1A:360:G:O4'	2.19	0.42
1:1A:1341:U:OP1	1:1A:1397:U:N3	2.47	0.42
1:1A:2531:A:H5'	7:1H:157:TYR:CE1	2.55	0.42
1:1A:2838:G:C2	1:1A:2881:C:C2	3.07	0.42
4:1E:111:ARG:HA	13:1R:1:MET:SD	2.60	0.42
5:1F:32:LEU:HB3	5:1F:112:MET:HE1	2.02	0.42
21:1Z:7:ALA:O	21:1Z:62:PRO:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:10:11:ARG:C	22:10:14:ARG:HH22	2.21	0.42
30:18:42:ARG:NH1	61:18:203:HOH:O	2.52	0.42
32:1a:23:C:OP2	32:1a:561:U:N3	2.46	0.42
32:1a:60:A:N1	32:1a:107:G:O2'	2.47	0.42
32:1a:448:A:OP2	32:1a:485:G:N1	2.23	0.42
32:1a:512:U:H2'	32:1a:513:C:C6	2.55	0.42
32:1a:580:U:H2'	32:1a:581:G:C8	2.55	0.42
32:1a:1066:C:O2'	32:1a:1067:A:H5'	2.20	0.42
37:1f:41:GLU:O	37:1f:62:TRP:HB3	2.20	0.42
46:1o:6:GLU:OE1	46:1o:6:GLU:N	2.51	0.42
1:2A:271(S):G:C6	1:2A:271(T):C:C4	3.08	0.42
1:2A:310:A:H1'	1:2A:311:A:H2'	2.02	0.42
1:2A:773:U:O2'	3:2D:48:ARG:HD3	2.19	0.42
1:2A:1003:G:O2'	1:2A:1010:A:N1	2.46	0.42
1:2A:1301:A:H2	1:2A:1626:G:N3	2.17	0.42
1:2A:2038:G:O6	61:2A:3964:HOH:O	2.18	0.42
1:2A:2050:C:C4	1:2A:2051:A:C6	3.08	0.42
1:2A:2466:C:OP1	31:29:4:ARG:HB2	2.19	0.42
1:2A:2505:G:N7	27:25:3:LYS:NZ	2.68	0.42
1:2A:2567:G:H2'	1:2A:2568:C:C6	2.55	0.42
3:2D:24:ILE:HA	3:2D:82:ILE:HG22	2.02	0.42
3:2D:68:LYS:C	3:2D:70:TRP:H	2.28	0.42
12:2Q:16:ARG:CG	12:2Q:18:LYS:HE3	2.50	0.42
15:2T:29:ARG:HB3	15:2T:87:ASP:HB2	2.02	0.42
15:2T:77:PRO:HB2	15:2T:80:SER:HB2	2.02	0.42
21:2Z:52:SER:C	21:2Z:54:HIS:H	2.26	0.42
23:21:51:VAL:HG11	23:21:74:VAL:HG21	2.02	0.42
26:24:16:CYS:SG	26:24:17:GLY:N	2.93	0.42
32:2a:300:A:H8	32:2a:300:A:O5'	2.03	0.42
32:2a:352:C:O2'	32:2a:354:G:OP1	2.30	0.42
32:2a:382:A:H2'	32:2a:383:A:H8	1.85	0.42
32:2a:976:G:N2	32:2a:1363:C:OP2	2.46	0.42
32:2a:1183:A:H3'	32:2a:1184:G:C5'	2.49	0.42
33:2b:185:ILE:HG22	33:2b:199:TYR:HD2	1.84	0.42
35:2d:112:VAL:H	35:2d:116:GLN:NE2	2.18	0.42
43:2l:110:VAL:HG23	43:2l:120:TYR:HB3	2.02	0.42
46:2o:74:ASP:OD1	46:2o:76:GLU:HB2	2.20	0.42
49:2r:43:PHE:CD1	49:2r:56:THR:HG23	2.55	0.42
1:1A:265:A:N1	1:1A:427:U:O2'	2.40	0.42
1:1A:1022:G:C5	1:1A:1140:C:C4	3.08	0.42
1:1A:1713:U:H2'	1:1A:1714:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2466:C:OP1	31:19:4:ARG:HB2	2.20	0.42
1:1A:2649:U:H2'	1:1A:2650:U:C6	2.54	0.42
5:1F:107:LYS:HG3	5:1F:206:ILE:HA	2.02	0.42
32:1a:28:G:O2'	32:1a:296:U:OP1	2.28	0.42
32:1a:865:A:C2	32:1a:918:A:H4'	2.54	0.42
32:1a:1125:U:H4'	41:1j:5:ARG:NH2	2.33	0.42
33:1b:61:LEU:HD13	33:1b:66:GLY:HA3	2.01	0.42
34:1c:65:ALA:HA	34:1c:100:ALA:HB3	2.02	0.42
36:1e:102:ALA:HA	36:1e:120:THR:OG1	2.20	0.42
54:1w:51:U:H2'	54:1w:52:G:C8	2.54	0.42
56:1y:6:G:H2'	56:1y:7:A:H5'	2.01	0.42
1:2A:527:C:C4	1:2A:2779:U:H2'	2.55	0.42
1:2A:528:A:O2'	1:2A:529:A:H5'	2.19	0.42
1:2A:629:G:H4'	1:2A:650:C:O2	2.20	0.42
1:2A:717:G:H2'	1:2A:718:A:O4'	2.20	0.42
1:2A:1954:G:N3	1:2A:2551:C:H5"	2.35	0.42
1:2A:2207:G:H3'	1:2A:2208:A:H5"	2.01	0.42
1:2A:2422:A:O4'	56:2y:76:A:N6	2.53	0.42
1:2A:2712:U:OP1	1:2A:2714:G:H4'	2.20	0.42
2:2B:6:C:H2'	2:2B:7:G:O4'	2.20	0.42
7:2H:7:LEU:HG	7:2H:69:ARG:NH2	2.35	0.42
12:2Q:41:TRP:HB3	12:2Q:94:VAL:HB	2.01	0.42
21:2Z:47:VAL:HA	21:2Z:50:GLN:HE22	1.85	0.42
32:2a:1287:A:H61	32:2a:1371:G:C1'	2.32	0.42
32:2a:1337:G:H5"	32:2a:1338:G:OP1	2.20	0.42
33:2b:19:HIS:CG	33:2b:20:GLU:N	2.88	0.42
35:2d:162:LEU:HD13	35:2d:181:MET:HB3	2.02	0.42
38:2g:70:LYS:HB3	38:2g:96:GLN:OE1	2.19	0.42
40:2i:50:LEU:HD12	40:2i:56:LEU:HD23	2.02	0.42
41:2j:45:ARG:HB3	41:2j:65:LEU:HB3	2.01	0.42
47:2p:2:VAL:HA	47:2p:23:ASP:HA	2.01	0.42
1:1A:271(O):C:H2'	1:1A:271(P):C:C6	2.55	0.41
1:1A:494:G:H4'	18:1W:6:ILE:HB	2.01	0.41
1:1A:1092:C:N4	1:1A:1099:G:H1	2.18	0.41
1:1A:1203:G:H5'	11:1P:3:LEU:HD23	2.01	0.41
1:1A:1364:G:C8	23:11:3:LYS:HD2	2.55	0.41
1:1A:1665:A:H2'	1:1A:1666:G:O4'	2.19	0.41
1:1A:1900:A:N1	1:1A:1970:A:C6	2.88	0.41
1:1A:1952:A:C6	1:1A:1953:A:N1	2.87	0.41
1:1A:2408:U:H2'	1:1A:2409:G:C8	2.55	0.41
3:1D:66:ASP:OD2	3:1D:103:ARG:NH1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:120:TRP:CD2	4:1E:155:LYS:HG2	2.55	0.41
6:1G:43:LEU:HD11	6:1G:153:ARG:HD2	2.03	0.41
10:1O:68:GLU:HB3	10:1O:78:ARG:HH11	1.85	0.41
13:1R:29:LEU:HD12	13:1R:29:LEU:HA	1.84	0.41
32:1a:485:G:O2'	32:1a:486:U:OP2	2.38	0.41
32:1a:827:U:C2	32:1a:874:G:N2	2.88	0.41
32:1a:1002:G:C5	32:1a:1003:G:H1'	2.54	0.41
32:1a:1070:U:H2'	32:1a:1071:C:C6	2.55	0.41
32:1a:1077:G:N2	32:1a:1080:A:OP2	2.45	0.41
33:1b:92:TYR:CZ	33:1b:151:GLY:HA3	2.55	0.41
33:1b:93:VAL:HG11	33:1b:97:TRP:CD1	2.55	0.41
34:1c:28:GLN:HA	34:1c:31:HIS:ND1	2.35	0.41
37:1f:50:TYR:OH	49:1r:74:ARG:O	2.36	0.41
40:1i:13:ALA:HB2	40:1i:68:GLY:HA3	2.01	0.41
54:1w:23:A:C6	54:1w:24:G:C6	3.08	0.41
1:2A:239:U:H2'	1:2A:240:G:O4'	2.20	0.41
1:2A:980:A:N3	1:2A:2037:G:O2'	2.40	0.41
1:2A:1287:A:C5	1:2A:1288:U:C4	3.08	0.41
1:2A:1371:G:H2'	1:2A:1372:U:H5	1.84	0.41
1:2A:1465:G:H5'	1:2A:1528:A:O2'	2.20	0.41
1:2A:2238:G:H5"	61:2A:4013:HOH:O	2.20	0.41
1:2A:2365:G:P	22:20:55:ARG:H	2.43	0.41
1:2A:2516:G:C6	1:2A:2517:C:C4	3.08	0.41
1:2A:2579:C:H4'	4:2E:134:ILE:HG12	2.00	0.41
2:2B:40:U:O2'	2:2B:42:C:H5'	2.20	0.41
2:2B:93:G:P	21:2Z:79:ARG:HH22	2.43	0.41
6:2G:46:ALA:HA	6:2G:49:ASP:HB2	2.02	0.41
7:2H:140:LYS:HE3	7:2H:140:LYS:HB2	1.85	0.41
15:2T:82:LEU:HD23	15:2T:82:LEU:HA	1.78	0.41
20:2Y:79:CYS:SG	20:2Y:81:LYS:HD2	2.60	0.41
21:2Z:98:MET:HE3	21:2Z:98:MET:HB2	1.94	0.41
21:2Z:100:VAL:HA	21:2Z:101:PRO:HD3	1.94	0.41
21:2Z:153:SER:CB	21:2Z:167:PRO:HB3	2.47	0.41
22:20:48:GLY:HA3	22:20:80:HIS:ND1	2.35	0.41
38:2g:22:LEU:HG	38:2g:62:PHE:CZ	2.54	0.41
39:2h:29:SER:HB3	39:2h:32:LYS:HD2	2.01	0.41
40:2i:4:TYR:CZ	40:2i:88:TYR:HD1	2.38	0.41
42:2k:71:LYS:HE2	42:2k:71:LYS:HB3	1.87	0.41
50:2s:44:MET:HB2	50:2s:62:ILE:HG21	2.02	0.41
51:2t:59:ALA:HB3	51:2t:84:LEU:HD11	2.02	0.41
54:2w:34:G:H2'	54:2w:35:A:H8	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:649:G:H2'	1:1A:650:C:C6	2.54	0.41
1:1A:684:G:OP1	29:17:16:HIS:ND1	2.50	0.41
1:1A:1050:A:H2'	1:1A:1051:G:O4'	2.19	0.41
1:1A:1075:C:C2'	1:1A:1076:C:H5'	2.50	0.41
1:1A:1570:A:H2'	1:1A:1571:A:C8	2.56	0.41
1:1A:1653:G:H3'	13:1R:2:ARG:HD3	2.01	0.41
1:1A:1784:A:H4'	1:1A:1785:A:C5'	2.51	0.41
1:1A:1835:G:O6	61:1A:4296:HOH:O	2.22	0.41
1:1A:2134:A:H2'	1:1A:2135:A:C8	2.55	0.41
1:1A:2320:A:H2'	1:1A:2320:A:N3	2.36	0.41
1:1A:2364:C:H4'	22:10:56:ASP:OD1	2.20	0.41
1:1A:2391:G:O6	1:1A:2425:A:H8	2.03	0.41
1:1A:2443:C:H2'	1:1A:2444:G:C8	2.55	0.41
28:16:6:ARG:NH1	28:16:26:ASN:HB2	2.35	0.41
32:1a:411:A:OP2	35:1d:30:LYS:HD2	2.20	0.41
32:1a:461:A:O2'	32:1a:470:C:H5'	2.20	0.41
35:1d:150:GLU:C	35:1d:152:SER:H	2.28	0.41
1:2A:117:G:C6	1:2A:119:A:C6	3.08	0.41
1:2A:614(C):A:C4	5:2F:180:GLY:HA2	2.55	0.41
1:2A:813:U:OP2	11:2P:24:GLY:N	2.45	0.41
1:2A:857:C:H1'	22:20:26:TYR:CE1	2.54	0.41
1:2A:900:A:HO2'	1:2A:901:A:P	2.39	0.41
1:2A:1413:G:N2	1:2A:1590:U:C2	2.88	0.41
1:2A:2233:U:H2'	1:2A:2234:G:C8	2.56	0.41
1:2A:2317:C:H2'	1:2A:2318:G:H5'	2.00	0.41
1:2A:2343:C:O3'	1:2A:2373:G:H4'	2.20	0.41
3:2D:77:ALA:HA	3:2D:97:TYR:HA	2.02	0.41
4:2E:3:GLY:HA3	4:2E:81:ILE:HD12	2.02	0.41
4:2E:48:GLN:NE2	4:2E:78:LEU:HD13	2.35	0.41
6:2G:116:ASP:CG	44:2m:68:GLY:HA3	2.45	0.41
11:2P:37:GLY:O	11:2P:40:SER:OG	2.28	0.41
11:2P:46:LYS:HE3	11:2P:46:LYS:HB3	1.86	0.41
11:2P:63:PRO:HG2	30:28:25:MET:HB2	2.03	0.41
12:2Q:15:GLY:H	12:2Q:41:TRP:HZ2	1.67	0.41
32:2a:157:G:H2'	32:2a:158:G:C8	2.53	0.41
32:2a:375:U:O3'	47:2p:6:LEU:HB2	2.19	0.41
32:2a:671:G:H5'	37:2f:77:ARG:NH2	2.34	0.41
32:2a:734:G:O2'	49:2r:71:LYS:HD3	2.19	0.41
32:2a:1073:U:HO2'	33:2b:104:ASN:CG	2.28	0.41
32:2a:1198:G:H2'	32:2a:1199:U:H6	1.85	0.41
34:2c:53:ALA:HB2	34:2c:115:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:7:ALA:HB2	39:2h:85:ARG:HD2	2.01	0.41
39:2h:17:THR:HB	39:2h:78:GLN:OE1	2.20	0.41
40:2i:4:TYR:O	40:2i:18:PHE:HA	2.19	0.41
40:2i:8:GLY:O	40:2i:14:VAL:HA	2.20	0.41
42:2k:66:LEU:O	42:2k:70:LYS:HG3	2.20	0.41
44:2m:14:ARG:HG3	44:2m:44:ARG:CZ	2.49	0.41
46:2o:21:ASP:OD2	46:2o:24:SER:OG	2.34	0.41
54:2w:27:G:H2'	54:2w:28:G:C8	2.55	0.41
54:2w:52:G:H2'	54:2w:53:G:C8	2.55	0.41
1:1A:512:G:OP1	1:1A:1234:U:O2'	2.22	0.41
1:1A:722:A:H2'	1:1A:723:G:O4'	2.19	0.41
1:1A:1174:A:N1	61:1A:4450:HOH:O	2.36	0.41
1:1A:1372:U:H2'	1:1A:1373:A:O4'	2.19	0.41
1:1A:1406:U:H2'	1:1A:1407:C:C6	2.56	0.41
1:1A:1754:C:H2'	1:1A:1755:A:O4'	2.20	0.41
1:1A:2250:G:C8	1:1A:2496:C:H5"	2.55	0.41
2:1B:24:G:N7	2:1B:56:G:H2'	2.35	0.41
3:1D:18:VAL:HG12	3:1D:211:ARG:HH22	1.85	0.41
5:1F:110:LEU:HD11	5:1F:181:LEU:HG	2.02	0.41
14:1S:106:ARG:NE	14:1S:112:PHE:OXT	2.52	0.41
19:1X:3:THR:N	19:1X:6:ASP:OD2	2.43	0.41
32:1a:427:U:O2'	32:1a:541:G:OP1	2.24	0.41
32:1a:953:G:H2'	32:1a:954:G:O4'	2.21	0.41
35:1d:160:GLN:O	35:1d:163:GLU:HB2	2.20	0.41
45:1n:53:LEU:HD23	45:1n:53:LEU:HA	1.85	0.41
50:1s:12:ASP:OD2	50:1s:35:SER:OG	2.34	0.41
50:1s:27:GLU:CB	50:1s:28:LYS:HA	2.40	0.41
1:2A:251:A:C5	1:2A:252:G:H1'	2.56	0.41
1:2A:812:C:H2'	1:2A:813:U:H6	1.86	0.41
1:2A:948:G:H21	1:2A:985:C:P	2.43	0.41
1:2A:1316:U:H2'	1:2A:1317:A:H8	1.86	0.41
1:2A:1518:U:H2'	1:2A:1519:G:O4'	2.20	0.41
1:2A:1864:U:OP1	1:2A:2410:G:O2'	2.35	0.41
1:2A:1927:A:C6	1:2A:1928:A:C6	3.08	0.41
1:2A:2512:C:H2'	1:2A:2513:G:O4'	2.19	0.41
2:2B:7:G:H2'	2:2B:8:U:O4'	2.20	0.41
5:2F:184:TYR:CD2	5:2F:188:ARG:HD2	2.55	0.41
6:2G:179:PRO:HG3	26:24:43:TYR:CZ	2.56	0.41
8:2I:68:LEU:HA	8:2I:68:LEU:HD23	1.80	0.41
21:2Z:79:ARG:HB2	21:2Z:80:ARG:NH1	2.35	0.41
32:2a:908:A:H2'	32:2a:909:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:985:C:H2'	32:2a:986:A:C8	2.56	0.41
32:2a:1151:A:C5'	41:2j:41:PRO:HA	2.50	0.41
32:2a:1254:C:H2'	32:2a:1255:G:H8	1.83	0.41
33:2b:82:ARG:HB3	33:2b:94:ASN:OD1	2.20	0.41
34:2c:6:HIS:HD2	34:2c:8:ILE:H	1.68	0.41
36:2e:20:GLN:HE21	36:2e:25:ARG:NH1	2.18	0.41
50:2s:33:THR:O	50:2s:57:HIS:HE1	2.04	0.41
56:2y:46:7MG:H82	56:2y:46:7MG:H2'	1.67	0.41
1:1A:652(C):G:H2'	1:1A:652(D):C:C6	2.55	0.41
1:1A:744:G:OP1	4:1E:132:HIS:ND1	2.49	0.41
1:1A:1035:U:H2'	1:1A:1036:G:C8	2.56	0.41
1:1A:1108:U:H2'	1:1A:1109:C:O4'	2.21	0.41
1:1A:1368:G:C2	1:1A:1369:G:C8	3.09	0.41
1:1A:1676:A:H2'	1:1A:1677:A:O4'	2.20	0.41
1:1A:2319:G:C2	14:1S:3:ARG:HA	2.55	0.41
1:1A:2331:G:O2'	22:10:43:THR:HG22	2.20	0.41
1:1A:2354:G:H21	22:10:36:ILE:CD1	2.31	0.41
1:1A:2556:C:H2'	1:1A:2557:G:O4'	2.21	0.41
3:1D:83:GLU:OE1	3:1D:104:TYR:OH	2.21	0.41
5:1F:28:ILE:O	5:1F:30:PRO:HD3	2.21	0.41
9:1N:71:ILE:HG21	9:1N:84:LYS:HB3	2.00	0.41
32:1a:421:U:OP2	32:1a:422:C:H5	2.02	0.41
32:1a:1028:C:H2'	32:1a:1029:C:O4'	2.20	0.41
32:1a:1291:G:C6	32:1a:1292:U:C4	3.08	0.41
32:1a:1309:G:OP1	44:1m:92:HIS:HE1	2.03	0.41
44:1m:108:ARG:HA	44:1m:108:ARG:HD3	1.76	0.41
1:2A:296:C:O3'	20:2Y:95:LYS:NZ	2.53	0.41
1:2A:2406:U:C2	11:2P:72:PRO:HG2	2.55	0.41
1:2A:2549:G:H2'	1:2A:2550:G:C8	2.55	0.41
1:2A:2734:A:H2'	1:2A:2735:G:O4'	2.21	0.41
3:2D:175:LEU:HD12	3:2D:185:VAL:HG21	2.03	0.41
5:2F:155:LEU:HB2	5:2F:189:THR:HG21	2.02	0.41
6:2G:62:LEU:O	26:24:27:THR:OG1	2.38	0.41
9:2N:15:LEU:HG	9:2N:16:ILE:N	2.35	0.41
11:2P:102:ARG:C	11:2P:104:GLY:H	2.27	0.41
15:2T:51:ARG:HG3	15:2T:98:LYS:HD2	2.02	0.41
15:2T:88:ILE:HG21	15:2T:91:ARG:HE	1.86	0.41
20:2Y:44:ILE:HA	20:2Y:63:LYS:O	2.21	0.41
28:26:14:THR:OG1	28:26:48:VAL:HG13	2.20	0.41
28:26:38:LYS:HB2	28:26:49:HIS:CE1	2.55	0.41
32:2a:408:A:H2'	32:2a:409:G:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1129:C:H2'	32:2a:1139:G:N7	2.35	0.41
35:2d:20:TYR:CD1	35:2d:26:CYS:HB3	2.54	0.41
38:2g:69:VAL:HG22	38:2g:135:VAL:HG22	2.02	0.41
40:2i:79:LEU:O	40:2i:83:ARG:N	2.52	0.41
48:2q:27:PHE:HE2	48:2q:38:ARG:HB2	1.86	0.41
50:2s:12:ASP:OD1	50:2s:37:ARG:HD2	2.20	0.41
50:2s:15:LEU:HD12	50:2s:15:LEU:HA	1.94	0.41
53:2v:14:A:N1	56:2y:34:G:C2	2.88	0.41
1:1A:118:A:C8	1:1A:119:A:C8	3.08	0.41
1:1A:238:C:H2'	1:1A:239:U:O4'	2.20	0.41
1:1A:271(J):C:O3'	1:1A:271(K):U:H3'	2.20	0.41
1:1A:303:U:H2'	1:1A:304:G:H8	1.86	0.41
1:1A:320:A:H4'	1:1A:322:A:N7	2.35	0.41
1:1A:510:C:C4	1:1A:511:U:C4	3.08	0.41
1:1A:1095:A:C8	1:1A:1096:A:C8	3.09	0.41
1:1A:1141:U:H4'	1:1A:1142(A):A:O4'	2.20	0.41
1:1A:1204:A:C5	1:1A:1206:G:C2	3.08	0.41
1:1A:1916:A:H2'	1:1A:1917:PSU:O4'	2.21	0.41
1:1A:2534:A:H2'	1:1A:2535:G:O4'	2.20	0.41
1:1A:2593:U:H2'	1:1A:2594:C:C6	2.56	0.41
1:1A:2712:U:OP1	1:1A:2714:G:H4'	2.21	0.41
5:1F:126:VAL:HG21	5:1F:129:PHE:CZ	2.55	0.41
13:1R:33:ARG:NH1	13:1R:115:GLU:OE1	2.53	0.41
13:1R:59:ASP:OD2	13:1R:62:ALA:N	2.36	0.41
15:1T:6:LEU:O	15:1T:10:VAL:HG23	2.21	0.41
15:1T:49:VAL:HA	15:1T:62:THR:O	2.21	0.41
16:1U:85:LYS:HD3	16:1U:116:ALA:O	2.20	0.41
18:1W:82:LEU:HB2	18:1W:98:LYS:HB2	2.03	0.41
20:1Y:35:TYR:CE2	20:1Y:69:ALA:HB3	2.55	0.41
32:1a:715:A:H2'	32:1a:716:A:C8	2.55	0.41
32:1a:812:C:OP1	32:1a:903:G:H1'	2.21	0.41
32:1a:1005:A:OP2	32:1a:1024:G:N2	2.54	0.41
32:1a:1302:U:OP2	44:1m:21:TYR:OH	2.29	0.41
32:1a:1347:G:H22	32:1a:1374:A:P	2.43	0.41
34:1c:73:PRO:O	34:1c:77:ILE:HG12	2.20	0.41
34:1c:134:ILE:HG23	34:1c:151:VAL:HB	2.02	0.41
46:1o:61:GLY:O	46:1o:65:ARG:HG3	2.20	0.41
1:2A:21:A:H2'	1:2A:22:C:O4'	2.21	0.41
1:2A:356:G:H2'	1:2A:357:A:C8	2.56	0.41
1:2A:921:G:O6	61:2A:3972:HOH:O	2.20	0.41
1:2A:1645:G:H5"	1:2A:1646:C:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2564:A:C2	1:2A:2647:U:H4'	2.56	0.41
1:2A:2838:G:N7	61:2A:4116:HOH:O	2.37	0.41
1:2A:2881:C:H2'	1:2A:2882:A:O4'	2.20	0.41
1:2A:2888:C:H2'	1:2A:2889:C:C6	2.55	0.41
2:2B:7:G:H5'	14:2S:29:PHE:CE2	2.56	0.41
8:2I:68:LEU:HD22	8:2I:72:LEU:HG	2.02	0.41
17:2V:7:THR:HG23	17:2V:12:TYR:HE2	1.85	0.41
19:2X:44:GLU:O	19:2X:48:LYS:N	2.51	0.41
21:2Z:40:ASP:OD2	21:2Z:42:VAL:HG13	2.19	0.41
24:22:12:GLU:HA	24:22:15:LYS:HB2	2.03	0.41
24:22:51:ARG:O	24:22:55:ARG:HG2	2.20	0.41
26:24:41:PRO:HG3	26:24:49:PHE:CE2	2.55	0.41
32:2a:8:A:N6	35:2d:205:GLU:O	2.42	0.41
32:2a:355:C:H1'	32:2a:388:G:H1'	2.02	0.41
32:2a:471:G:H2'	32:2a:472:A:H8	1.85	0.41
32:2a:665:A:H1'	32:2a:733:A:H5'	2.01	0.41
32:2a:1201:A:H4'	32:2a:1202:G:O5'	2.21	0.41
34:2c:60:ALA:HB3	34:2c:63:ASN:HD21	1.86	0.41
37:2f:46:ARG:NH2	49:2r:37:VAL:HG11	2.27	0.41
43:2l:69:TYR:CD1	43:2l:90:VAL:HG21	2.56	0.41
52:2u:3:LYS:HB3	52:2u:14:TRP:CD1	2.55	0.41
55:2x:50:U:H2'	55:2x:51:C:C6	2.56	0.41
1:1A:143:G:H2'	1:1A:143(A):C:C6	2.55	0.41
1:1A:620:G:N3	1:1A:620:G:H2'	2.35	0.41
1:1A:630:G:OP1	30:18:47:LYS:NZ	2.45	0.41
1:1A:884:C:N3	1:1A:885:C:H1'	2.36	0.41
1:1A:1386:C:H2'	1:1A:1387:C:C6	2.55	0.41
1:1A:1417:C:H3'	61:1A:4231:HOH:O	2.20	0.41
1:1A:1549:C:H2'	1:1A:1550:C:O4'	2.19	0.41
1:1A:2147:G:N3	1:1A:2147:G:H3'	2.36	0.41
2:1B:106:G:H5'	21:1Z:31:ARG:HG2	2.03	0.41
5:1F:183:VAL:O	5:1F:187:VAL:HG23	2.21	0.41
8:1I:61:ARG:HD3	8:1I:61:ARG:HA	1.84	0.41
21:1Z:54:HIS:HB3	21:1Z:101:PRO:HD3	2.02	0.41
24:12:21:LEU:HB2	24:12:64:LEU:HD13	2.03	0.41
32:1a:34:C:H2'	32:1a:35:G:C8	2.56	0.41
32:1a:666:G:C2	32:1a:741:G:C4	3.09	0.41
32:1a:681:C:H2'	32:1a:682:G:C8	2.56	0.41
32:1a:737:A:H5"	37:1f:92:LYS:HG3	2.02	0.41
32:1a:884:U:H4'	32:1a:885:G:H5"	2.03	0.41
32:1a:1305:G:H5"	52:1u:4:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:57:LYS:O	41:1j:60:ARG:NE	2.47	0.41
44:1m:118:ALA:HB2	55:1x:28:C:H4'	2.02	0.41
49:1r:35:ARG:HA	49:1r:78:LEU:HD13	2.02	0.41
56:1y:65:G:C6	56:1y:66:U:C4	3.07	0.41
1:2A:142(A):C:H2'	1:2A:143:G:O4'	2.21	0.41
1:2A:408:G:H4'	61:2A:4367:HOH:O	2.20	0.41
1:2A:539:G:C6	1:2A:540:C:C4	3.08	0.41
1:2A:861:A:C2	1:2A:862:G:H1'	2.55	0.41
1:2A:921:G:C5	1:2A:922:U:C4	3.09	0.41
1:2A:1400:G:H2'	1:2A:1401:G:C8	2.56	0.41
1:2A:2110:G:N2	1:2A:2120:G:H1'	2.35	0.41
1:2A:2298:A:N6	1:2A:2318:G:H8	2.19	0.41
1:2A:2785:C:O4'	4:2E:35:GLN:NE2	2.53	0.41
2:2B:41:U:H5	6:2G:70:VAL:H	1.68	0.41
4:2E:77:ILE:HG21	4:2E:195:LEU:HD13	2.02	0.41
5:2F:112:MET:HE3	5:2F:112:MET:HB3	1.82	0.41
5:2F:116:ASP:O	5:2F:120:GLU:HG2	2.20	0.41
6:2G:131:TYR:HB3	6:2G:159:VAL:HG13	2.03	0.41
6:2G:173:LEU:HB3	6:2G:178:PHE:CG	2.55	0.41
8:2I:73:GLU:OE1	8:2I:139:GLN:N	2.54	0.41
11:2P:50:ARG:HE	11:2P:50:ARG:HB2	1.70	0.41
11:2P:136:GLU:H	11:2P:136:GLU:HG2	1.59	0.41
26:24:33:VAL:HG12	26:24:35:VAL:H	1.85	0.41
30:28:8:LYS:HD3	30:28:8:LYS:HA	1.89	0.41
32:2a:532:A:N1	34:2c:156:ARG:NH1	2.68	0.41
32:2a:1077:G:N2	32:2a:1080:A:C8	2.89	0.41
32:2a:1260:C:O5'	32:2a:1284:C:H4'	2.20	0.41
32:2a:1401:G:H2'	32:2a:1402:4OC:O4'	2.21	0.41
34:2c:34:LEU:HG	34:2c:38:ARG:HH21	1.85	0.41
35:2d:79:PHE:HE1	35:2d:204:ILE:HD13	1.86	0.41
36:2e:146:ALA:O	36:2e:150:ARG:HG2	2.21	0.41
1:1A:609:A:H2'	1:1A:610:G:O4'	2.21	0.41
1:1A:613:G:N2	1:1A:614(C):A:O2'	2.54	0.41
1:1A:686:G:H1	29:17:16:HIS:CD2	2.39	0.41
1:1A:1208:C:C4	1:1A:1209:G:N7	2.89	0.41
1:1A:2248:C:H2'	1:1A:2249:U:O4'	2.20	0.41
1:1A:2432:A:H2'	1:1A:2433:A:C8	2.55	0.41
3:1D:17:THR:HG23	3:1D:205:VAL:HB	2.03	0.41
3:1D:148:GLU:HB2	3:1D:151:LYS:HD2	2.03	0.41
4:1E:29:GLY:HA3	61:1E:406:HOH:O	2.20	0.41
9:1N:109:LYS:HE2	61:1N:303:HOH:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1P:3:LEU:HD12	11:1P:3:LEU:HA	1.89	0.41
21:1Z:23:LYS:HD2	21:1Z:40:ASP:HA	2.02	0.41
21:1Z:103:ARG:O	21:1Z:139:VAL:N	2.54	0.41
24:12:10:LEU:O	24:12:14:ARG:HD2	2.20	0.41
26:14:61:ARG:HH21	50:1s:42:PRO:CD	2.34	0.41
32:1a:677:U:H2'	32:1a:678:U:C6	2.56	0.41
32:1a:695:A:OP2	42:1k:53:SER:N	2.42	0.41
32:1a:931:C:H2'	32:1a:932:C:O4'	2.20	0.41
32:1a:963:G:C2'	32:1a:964:A:H5'	2.51	0.41
38:1g:80:VAL:HG11	38:1g:154:TYR:CE1	2.56	0.41
43:1l:28:LYS:HA	43:1l:28:LYS:HD2	1.87	0.41
49:1r:47:THR:HG23	49:1r:49:LYS:HG3	2.03	0.41
1:2A:27:G:HO2'	1:2A:28:A:P	2.42	0.41
1:2A:55:G:O2'	1:2A:127:A:N1	2.51	0.41
1:2A:539:G:C2	1:2A:540:C:C2	3.09	0.41
1:2A:2451:A:H2'	54:2w:76:F3N:HB2	2.02	0.41
4:2E:36:ARG:NH1	4:2E:85:ASN:OD1	2.54	0.41
9:2N:42:TRP:HA	9:2N:48:MET:SD	2.61	0.41
26:24:50:VAL:HG11	44:2m:65:LYS:N	2.35	0.41
30:28:52:LYS:N	30:28:53:PRO:HD2	2.36	0.41
32:2a:142:G:C4	32:2a:143:A:C8	3.09	0.41
32:2a:369:C:OP2	32:2a:388:G:N1	2.43	0.41
32:2a:422:C:H4'	32:2a:423:G:O5'	2.20	0.41
32:2a:598:U:H4'	39:2h:94:TYR:CD2	2.55	0.41
32:2a:814:A:N7	32:2a:816:A:C4	2.89	0.41
32:2a:1006:C:H2'	32:2a:1007:C:C6	2.56	0.41
32:2a:1141:C:H2'	32:2a:1142:G:H8	1.86	0.41
33:2b:34:ALA:O	33:2b:41:ILE:HG13	2.20	0.41
42:2k:27:ASN:OD1	42:2k:28:THR:N	2.53	0.41
43:2l:124:LYS:HA	43:2l:125:PRO:HD3	1.95	0.41
44:2m:33:ALA:HA	44:2m:59:TYR:CE2	2.55	0.41
44:2m:65:LYS:HB2	44:2m:65:LYS:HE3	1.77	0.41
50:2s:51:VAL:N	50:2s:58:VAL:O	2.50	0.41
51:2t:27:LYS:HA	51:2t:30:LYS:HE2	2.03	0.41
51:2t:54:LYS:HB3	51:2t:54:LYS:HE2	1.85	0.41
1:1A:360:G:H2'	1:1A:361:G:H8	1.86	0.41
1:1A:1039:G:H22	1:1A:1116:C:N4	2.19	0.41
1:1A:1101:U:H2'	1:1A:1102:C:O4'	2.21	0.41
1:1A:1231:G:H2'	1:1A:1232:G:C8	2.56	0.41
1:1A:1424:G:H2'	1:1A:1425:G:O4'	2.21	0.41
1:1A:2079:U:OP1	23:11:21:ARG:NH1	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2206:G:OP2	1:1A:2206:G:H4'	2.18	0.41
1:1A:2524:G:H4'	1:1A:2764:A:H5'	2.02	0.41
1:1A:2583:G:H2'	1:1A:2584:U:O4'	2.20	0.41
2:1B:4:C:H2'	2:1B:5:C:O4'	2.21	0.41
3:1D:43:ARG:HA	3:1D:48:ARG:O	2.21	0.41
6:1G:130:ASN:OD1	6:1G:160:VAL:HG13	2.21	0.41
11:1P:2:LYS:HG2	11:1P:4:SER:H	1.86	0.41
13:1R:2:ARG:HD2	61:1R:312:HOH:O	2.21	0.41
26:14:34:GLU:HG2	26:14:35:VAL:HG12	2.01	0.41
32:1a:189:G:C6	32:1a:189(L):G:N1	2.88	0.41
32:1a:892:A:O2'	32:1a:1415:G:H4'	2.21	0.41
55:1x:17:C:H5'	55:1x:61:C:OP1	2.20	0.41
1:2A:271(K):U:H4'	1:2A:271(L):U:OP1	2.21	0.41
1:2A:1249:U:C4	11:2P:18:ARG:NH1	2.89	0.41
1:2A:1359:A:C2	1:2A:1372:U:O4	2.73	0.41
1:2A:2053:G:C2	1:2A:2617:C:C2	3.09	0.41
1:2A:2129:C:N3	1:2A:2159:G:N2	2.63	0.41
1:2A:2258:C:O2'	1:2A:2427:C:OP2	2.32	0.41
4:2E:116:VAL:HG21	4:2E:138:PRO:HB3	2.02	0.41
5:2F:78:ILE:HA	5:2F:83:PHE:CD2	2.56	0.41
8:2I:45:LYS:H	8:2I:45:LYS:HG3	1.66	0.41
14:2S:36:TYR:HD1	14:2S:52:SER:HB2	1.85	0.41
29:27:46:VAL:HG13	29:27:48:LYS:HZ1	1.86	0.41
32:2a:9:G:H2'	32:2a:10:A:C8	2.56	0.41
32:2a:103:C:O2'	32:2a:172:A:N1	2.52	0.41
32:2a:957:U:O2'	32:2a:959:A:N7	2.49	0.41
33:2b:16:HIS:C	33:2b:18:GLY:N	2.74	0.41
37:2f:96:PRO:HB3	49:2r:30:ASP:OD2	2.20	0.41
44:2m:83:ASP:OD1	44:2m:83:ASP:N	2.51	0.41
1:1A:78:A:H2'	1:1A:79:G:H8	1.86	0.41
1:1A:1051:G:H2'	1:1A:1052:C:C6	2.56	0.41
1:1A:1086:A:O3'	1:1A:1087:G:C8	2.74	0.41
1:1A:1094:U:H1'	1:1A:1097:U:H5	1.80	0.41
1:1A:1421:G:C2	1:1A:1422:G:C8	3.09	0.41
1:1A:1484:G:H1	1:1A:1505:C:H42	1.69	0.41
1:1A:1495:A:C6	1:1A:1496:A:C6	3.09	0.41
1:1A:1599:C:OP1	19:1X:36:LYS:HG3	2.20	0.41
1:1A:1713:U:H2'	1:1A:1714:G:C8	2.55	0.41
1:1A:1818:U:OP2	3:1D:157:ARG:NH2	2.47	0.41
1:1A:2019:A:N6	1:1A:2020:A:C5	2.89	0.41
1:1A:2385:C:H2'	1:1A:2386:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1B:92:C:H2'	2:1B:93:G:H8	1.86	0.41
3:1D:2:ALA:O	3:1D:20:ASP:HB3	2.19	0.41
6:1G:121:ASN:HA	6:1G:122:PRO:HD3	1.96	0.41
7:1H:3:ARG:NH2	7:1H:65:HIS:HB3	2.36	0.41
8:1I:40:THR:O	8:1I:44:LEU:HB2	2.21	0.41
10:1O:4:PRO:O	10:1O:5:GLN:HB2	2.21	0.41
17:1V:65:GLY:HA3	17:1V:91:TYR:CZ	2.56	0.41
21:1Z:104:PHE:HA	21:1Z:139:VAL:HB	2.03	0.41
27:15:11:THR:HG23	27:15:15:ARG:HB3	2.03	0.41
32:1a:36:C:OP1	43:1l:123:LYS:HE3	2.21	0.41
32:1a:161:A:H3'	32:1a:162:A:H8	1.86	0.41
32:1a:861:G:HO2'	32:1a:874:G:HO2'	1.66	0.41
32:1a:1144:G:C6	32:1a:1145:C:N4	2.89	0.41
32:1a:1153:C:H2'	32:1a:1154:G:O4'	2.21	0.41
32:1a:1360:A:H2'	32:1a:1361:G:O4'	2.21	0.41
33:1b:21:ARG:HA	33:1b:39:ILE:HA	2.03	0.41
33:1b:50:GLU:O	33:1b:54:THR:OG1	2.36	0.41
33:1b:155:LEU:HD12	33:1b:155:LEU:HA	1.89	0.41
33:1b:158:LEU:HG	33:1b:182:ILE:HD11	2.03	0.41
35:1d:63:LYS:HD2	35:1d:198:VAL:HG22	2.02	0.41
35:1d:102:ASP:OD1	35:1d:103:ASN:N	2.53	0.41
35:1d:116:GLN:NE2	35:1d:157:LEU:HD21	2.36	0.41
37:1f:76:ALA:O	37:1f:80:ARG:HG3	2.21	0.41
37:1f:96:PRO:HB2	37:1f:98:LEU:HD11	2.03	0.41
38:1g:67:GLU:OE1	38:1g:70:LYS:NZ	2.45	0.41
40:1i:63:ILE:HG21	40:1i:77:ILE:HG12	2.01	0.41
43:1l:23:LYS:C	43:1l:25:PRO:HD3	2.46	0.41
46:1o:42:HIS:CE1	46:1o:46:HIS:CD2	3.09	0.41
47:1p:53:VAL:HG22	47:1p:79:VAL:HG22	2.03	0.41
48:1q:26:GLN:NE2	48:1q:37:LYS:HE3	2.36	0.41
48:1q:83:ASP:OD1	48:1q:83:ASP:N	2.44	0.41
54:1w:58:A:O2'	54:1w:60:U:OP2	2.29	0.41
55:1x:64:G:C6	55:1x:65:C:C4	3.08	0.41
56:1y:71:G:H2'	56:1y:72:C:C6	2.56	0.41
1:2A:272:G:N7	1:2A:421:U:H2'	2.36	0.41
1:2A:317:G:C2	1:2A:318:C:C2	3.09	0.41
1:2A:320:A:H4'	1:2A:322:A:C8	2.56	0.41
1:2A:709:U:H2'	1:2A:710:G:H8	1.85	0.41
1:2A:921:G:C6	1:2A:922:U:C4	3.08	0.41
1:2A:1023:U:OP2	61:2A:3931:HOH:O	2.22	0.41
1:2A:1131:G:C2	1:2A:1132:A:C4	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1165:U:H2'	1:2A:1166:C:C6	2.56	0.41
1:2A:1297:C:H5"	61:2A:4515:HOH:O	2.21	0.41
1:2A:1480:G:C6	1:2A:1481:U:C4	3.08	0.41
1:2A:1817:G:P	3:2D:88:ARG:HH22	2.43	0.41
1:2A:2108:C:H2'	1:2A:2109:U:C6	2.56	0.41
1:2A:2152:G:H2'	1:2A:2153:G:O4'	2.20	0.41
1:2A:2316:C:H2'	1:2A:2317:C:H6	1.86	0.41
1:2A:2319:G:N2	14:2S:3:ARG:HA	2.36	0.41
1:2A:2462:U:H2'	1:2A:2463:C:O4'	2.21	0.41
1:2A:2542:A:H4'	1:2A:2543:G:C8	2.55	0.41
1:2A:2630:G:H2'	1:2A:2631:G:C8	2.56	0.41
2:2B:74:U:H3'	2:2B:75:G:H5"	2.02	0.41
5:2F:161:GLU:O	5:2F:165:ARG:HG3	2.21	0.41
6:2G:3:LEU:HD13	6:2G:5:VAL:HG13	2.03	0.41
6:2G:18:GLU:O	6:2G:22:ARG:N	2.54	0.41
7:2H:12:PRO:HD2	7:2H:15:VAL:HG11	2.02	0.41
9:2N:123:TYR:CZ	9:2N:129:PRO:HD2	2.55	0.41
12:2Q:33:GLY:HA2	12:2Q:104:PHE:O	2.20	0.41
21:2Z:138:GLU:HB2	21:2Z:156:LYS:HD3	2.03	0.41
32:2a:42:G:O2'	32:2a:622:A:N1	2.49	0.41
32:2a:302:G:O2'	32:2a:556:C:H5"	2.21	0.41
32:2a:343:U:H2'	32:2a:345:C:C5	2.55	0.41
32:2a:362:G:N1	32:2a:365:U:OP2	2.54	0.41
32:2a:620:C:H2'	32:2a:621:A:O4'	2.21	0.41
32:2a:684:A:O2'	42:2k:39:PRO:O	2.39	0.41
32:2a:988:G:H2'	32:2a:989:C:O4'	2.21	0.41
32:2a:1004:A:H61	32:2a:1037:C:H1'	1.81	0.41
32:2a:1227:A:H3'	32:2a:1227:A:N3	2.36	0.41
32:2a:1311:G:N2	32:2a:1327:C:C2	2.89	0.41
32:2a:1376:U:H2'	32:2a:1377:A:H8	1.86	0.41
32:2a:1505:G:H2'	53:2v:15:A:OP2	2.21	0.41
33:2b:76:GLN:CD	33:2b:76:GLN:H	2.28	0.41
33:2b:187:LEU:HA	33:2b:201:ILE:HB	2.02	0.41
35:2d:18:LYS:HE3	35:2d:20:TYR:CE1	2.56	0.41
44:2m:54:VAL:HG12	44:2m:57:ARG:NH1	2.35	0.41
48:2q:53:LEU:HD12	48:2q:53:LEU:HA	1.76	0.41
49:2r:68:LYS:HE2	49:2r:68:LYS:HB2	1.93	0.41
50:2s:19:VAL:O	50:2s:23:ASN:ND2	2.53	0.41
1:1A:45:C:H2'	1:1A:47:C:C6	2.56	0.41
1:1A:187:G:O2'	1:1A:1365:A:N3	2.38	0.41
1:1A:271(D):G:H2'	1:1A:271(E):U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:350:U:H2'	1:1A:351:G:O4'	2.20	0.41
1:1A:568:U:H5'	1:1A:945:A:H62	1.84	0.41
1:1A:660:G:H5'	5:1F:99:TYR:CD1	2.56	0.41
1:1A:817:C:O2'	1:1A:839:U:OP1	2.36	0.41
1:1A:881:G:H3'	1:1A:882:G:C8	2.54	0.41
1:1A:1084:A:H2'	1:1A:1085:A:O4'	2.21	0.41
1:1A:1093:G:O6	1:1A:1094:U:C4	2.74	0.41
1:1A:1130:U:C2	1:1A:2025:C:H5"	2.56	0.41
1:1A:1182:A:H2'	1:1A:1183:G:C8	2.56	0.41
1:1A:1790:C:H2'	1:1A:1791:A:C5	2.56	0.41
1:1A:2789:C:O3'	1:1A:2790:A:H4'	2.20	0.41
2:1B:4:C:C2	2:1B:118:G:C2	3.08	0.41
3:1D:130:ALA:HB1	3:1D:190:TYR:HD1	1.86	0.41
5:1F:129:PHE:HB3	5:1F:132:VAL:CG1	2.51	0.41
6:1G:29:TRP:O	6:1G:33:ARG:NH1	2.53	0.41
7:1H:157:TYR:CE1	7:1H:172:LYS:HG3	2.55	0.41
17:1V:55:ALA:HA	17:1V:101:GLY:HA2	2.03	0.41
18:1W:1:MET:HE2	18:1W:2:GLU:O	2.20	0.41
19:1X:55:ASN:HB2	19:1X:80:ILE:HB	2.02	0.41
26:14:34:GLU:HB2	44:1m:57:ARG:CZ	2.51	0.41
30:18:21:LYS:HD3	30:18:49:VAL:HG11	2.03	0.41
32:1a:7:G:H8	36:1e:119:LEU:HD13	1.85	0.41
32:1a:376:G:N2	32:1a:387:U:O2	2.44	0.41
32:1a:1217:C:H2'	32:1a:1218:C:O4'	2.21	0.41
33:1b:224:GLN:HA	33:1b:228:GLY:O	2.21	0.41
34:1c:6:HIS:HD2	34:1c:9:GLY:H	1.69	0.41
34:1c:68:VAL:HG13	34:1c:70:VAL:HG23	2.03	0.41
42:1k:40:ILE:HG22	42:1k:41:THR:HG22	2.03	0.41
44:1m:4:ILE:HA	44:1m:5:ALA:HA	1.86	0.41
47:1p:3:LYS:HE3	47:1p:3:LYS:HB3	1.85	0.41
47:1p:60:LEU:HD12	47:1p:60:LEU:HA	1.76	0.41
51:1t:78:ALA:HA	51:1t:81:LYS:HE2	2.02	0.41
1:2A:592:G:O2'	30:28:4:MET:HG3	2.21	0.41
1:2A:881:G:C2	1:2A:882:G:H1'	2.56	0.41
1:2A:1245:G:H5"	5:2F:34:TRP:HZ2	1.86	0.41
1:2A:1651:G:H5'	13:2R:39:PRO:HG2	2.03	0.41
1:2A:2114:A:N6	1:2A:2119:A:N7	2.69	0.41
1:2A:2274:A:N1	1:2A:2276:G:H1'	2.36	0.41
1:2A:2291:U:OP1	1:2A:2380:C:O2'	2.39	0.41
1:2A:2331:G:O2'	1:2A:2336:A:N1	2.41	0.41
1:2A:2526:G:C5	1:2A:2527:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2676:C:O2	1:2A:2732:G:N2	2.53	0.41
5:2F:47:GLY:O	5:2F:94:PRO:HA	2.21	0.41
9:2N:21:LYS:HD2	9:2N:26:LEU:HD13	2.02	0.41
19:2X:41:ASN:O	19:2X:45:THR:HG23	2.20	0.41
32:2a:36:C:O2'	43:2l:117:ARG:NH2	2.54	0.41
32:2a:130:A:O2'	32:2a:131:C:O5'	2.38	0.41
32:2a:187:C:O2'	51:2t:89:ARG:NH2	2.54	0.41
32:2a:502:G:H2'	32:2a:503:C:O4'	2.21	0.41
32:2a:720:C:O2'	49:2r:67:ALA:HB2	2.21	0.41
32:2a:1054:C:C5	54:2w:34:G:H1'	2.55	0.41
32:2a:1071:C:H5"	36:2e:49:PRO:HG3	2.03	0.41
32:2a:1367:C:P	40:2i:112:LYS:HZ1	2.42	0.41
32:2a:1371:G:C6	32:2a:1372:U:C4	3.09	0.41
33:2b:136:VAL:O	33:2b:140:HIS:HB2	2.21	0.41
34:2c:178:LEU:C	34:2c:180:ALA:H	2.28	0.41
36:2e:143:ARG:HB3	36:2e:147:ASP:HB3	2.03	0.41
38:2g:151:TYR:OH	42:2k:54:ARG:HD3	2.21	0.41
44:2m:67:GLU:HB3	44:2m:68:GLY:H	1.77	0.41
44:2m:81:LEU:HB3	44:2m:86:CYS:SG	2.60	0.41
1:1A:271(X):G:C2	1:1A:271(Y):U:O4	2.74	0.40
1:1A:337:C:H2'	1:1A:338:G:O4'	2.21	0.40
1:1A:361:G:C6	1:1A:362:U:O4	2.74	0.40
1:1A:459:U:H4'	29:17:40:TRP:CH2	2.57	0.40
1:1A:590:A:H2'	1:1A:591:C:O4'	2.21	0.40
1:1A:910:A:N3	1:1A:2264:C:O2'	2.48	0.40
1:1A:1188:U:O2'	1:1A:1189:A:H5'	2.22	0.40
1:1A:1212:G:N3	1:1A:1236:G:C2	2.90	0.40
1:1A:1255:U:O5'	1:1A:1256:G:H5"	2.20	0.40
1:1A:1486:A:H2'	1:1A:1487:G:H8	1.86	0.40
1:1A:2655:G:O2'	1:1A:2664:G:O6	2.23	0.40
1:1A:2882:A:H5'	13:1R:96:ARG:HG3	2.02	0.40
2:1B:12:C:O4'	2:1B:15:A:N6	2.53	0.40
4:1E:72:VAL:HG12	4:1E:73:GLU:O	2.21	0.40
5:1F:37:VAL:HG13	5:1F:184:TYR:CD1	2.56	0.40
7:1H:84:SER:HA	7:1H:133:VAL:O	2.20	0.40
31:19:10:ILE:HD12	31:19:32:HIS:CD2	2.56	0.40
32:1a:913:A:H4'	32:1a:914:A:O5'	2.21	0.40
32:1a:927:G:N2	32:1a:1391:U:H1'	2.36	0.40
32:1a:964:A:N3	32:1a:969:A:O2'	2.43	0.40
32:1a:1126:U:O2	32:1a:1280:A:H2'	2.21	0.40
32:1a:1368:G:OP1	40:1i:114:TYR:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:80:ILE:HG12	33:1b:215:LEU:HD23	2.03	0.40
35:1d:164:ALA:O	35:1d:168:ARG:HG3	2.21	0.40
36:1e:79:GLU:CG	36:1e:92:LYS:HG3	2.51	0.40
41:1j:12:ASP:HB3	41:1j:15:THR:OG1	2.21	0.40
1:2A:25:U:H2'	1:2A:26:G:O4'	2.21	0.40
1:2A:286:C:H42	1:2A:355:G:H1	1.68	0.40
1:2A:322:A:P	5:2F:169:ASN:HB2	2.61	0.40
1:2A:538:G:H2'	1:2A:539:G:C8	2.55	0.40
1:2A:757:U:H2'	1:2A:758:C:O4'	2.20	0.40
1:2A:764:A:H5'	3:2D:210:GLY:CA	2.51	0.40
1:2A:1007:C:O2'	9:2N:108:PRO:HA	2.22	0.40
1:2A:2032:G:OP2	1:2A:2454:G:O2'	2.34	0.40
1:2A:2839:G:H5'	13:2R:46:GLY:CA	2.47	0.40
1:2A:2843:G:H2'	1:2A:2844:G:O4'	2.21	0.40
4:2E:176:ILE:HD12	4:2E:181:LEU:HB3	2.02	0.40
5:2F:46:ARG:HB3	5:2F:48:THR:HG23	2.03	0.40
5:2F:158:THR:HA	5:2F:195:ASP:HB2	2.04	0.40
9:2N:91:LEU:HD23	9:2N:91:LEU:HA	1.91	0.40
11:2P:21:ARG:HD3	11:2P:21:ARG:HA	1.85	0.40
32:2a:20:U:H2'	32:2a:21:G:O4'	2.21	0.40
32:2a:115:G:H4'	32:2a:116:A:O5'	2.20	0.40
32:2a:232:G:H2'	32:2a:233:C:C6	2.56	0.40
32:2a:688:G:O2'	32:2a:704:A:N1	2.48	0.40
32:2a:1003:G:C5	32:2a:1004:A:C2	3.09	0.40
32:2a:1011:G:H2'	32:2a:1012:U:O4'	2.21	0.40
32:2a:1418:A:H5"	32:2a:1419:G:OP2	2.21	0.40
37:2f:10:LEU:HB2	37:2f:59:TYR:HB3	2.02	0.40
38:2g:153:HIS:ND1	42:2k:58:PRO:HD2	2.36	0.40
40:2i:45:ALA:O	40:2i:78:LYS:HD2	2.21	0.40
44:2m:13:LYS:NZ	44:2m:21:TYR:OH	2.48	0.40
48:2q:18:THR:HG23	48:2q:44:ALA:O	2.20	0.40
56:2y:25:C:N4	56:2y:26:A:C6	2.89	0.40
56:2y:30:G:H2'	56:2y:31:A:H8	1.87	0.40
1:1A:647:G:O5'	1:1A:647:G:H8	2.04	0.40
1:1A:887:A:H4'	1:1A:888:C:H5"	2.04	0.40
1:1A:1075:C:O2	1:1A:1076:C:H2'	2.21	0.40
1:1A:2059:A:H2'	1:1A:2503:2MA:HM23	2.02	0.40
1:1A:2075:U:OP2	1:1A:2238:G:O2'	2.33	0.40
1:1A:2352:A:C4	1:1A:2366:A:C2	3.09	0.40
1:1A:2356:C:H2'	1:1A:2357:U:O4'	2.21	0.40
1:1A:2443:C:OP1	5:1F:68:LYS:HD3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2735:G:H2'	1:1A:2736:G:H8	1.87	0.40
4:1E:16:ARG:NH1	4:1E:173:VAL:HG13	2.36	0.40
5:1F:64:ILE:CG2	5:1F:78:ILE:HG23	2.44	0.40
11:1P:97:PRO:HG3	11:1P:112:LEU:HD12	2.01	0.40
26:14:40:HIS:O	26:14:44:THR:HG23	2.21	0.40
32:1a:297:G:H4'	32:1a:557:G:H4'	2.03	0.40
32:1a:620:C:H2'	32:1a:621:A:O4'	2.21	0.40
32:1a:640:A:C6	32:1a:641:U:C4	3.09	0.40
32:1a:1037:C:H2'	32:1a:1038:C:H6	1.87	0.40
32:1a:1068:G:OP2	32:1a:1068:G:H8	2.04	0.40
38:1g:76:ARG:HD3	38:1g:89:MET:HB2	2.04	0.40
38:1g:121:ALA:O	38:1g:125:MET:HG3	2.21	0.40
52:1u:10:ARG:HA	52:1u:10:ARG:HD3	1.82	0.40
1:2A:255:A:H1'	1:2A:384:U:C6	2.56	0.40
1:2A:330:A:H2	1:2A:1210:A:H2'	1.86	0.40
1:2A:631:A:H2'	1:2A:632:A:O4'	2.20	0.40
1:2A:642:G:H21	1:2A:646:A:H2	1.67	0.40
1:2A:1462:C:H2'	1:2A:1463:C:O4'	2.21	0.40
1:2A:1499:C:H2'	1:2A:1500:G:H8	1.85	0.40
3:2D:97:TYR:C	3:2D:99:ASP:N	2.79	0.40
7:2H:38:SER:HB2	7:2H:64:LEU:HD22	2.04	0.40
8:2I:83:ALA:CB	8:2I:123:LEU:HD11	2.52	0.40
11:2P:121:LYS:HB3	11:2P:123:LEU:HD12	2.03	0.40
12:2Q:35:VAL:HG12	12:2Q:130:LYS:O	2.20	0.40
21:2Z:140:ASP:OD1	21:2Z:141:VAL:N	2.52	0.40
30:28:52:LYS:HG2	30:28:56:GLU:OE2	2.22	0.40
32:2a:201:C:H5'	32:2a:202:U:OP2	2.21	0.40
32:2a:259:G:N2	32:2a:267:C:N3	2.66	0.40
32:2a:993:G:N3	32:2a:993:G:H2'	2.36	0.40
32:2a:1133:G:N2	32:2a:1141:C:N3	2.67	0.40
38:2g:26:PHE:CZ	38:2g:30:ILE:HD11	2.55	0.40
38:2g:150:ALA:HA	42:2k:59:TYR:HB3	2.02	0.40
40:2i:43:ALA:HA	40:2i:74:ILE:HD13	2.03	0.40
41:2j:16:LEU:HD12	41:2j:94:VAL:HG22	2.03	0.40
46:2o:70:LEU:HD12	46:2o:70:LEU:HA	1.86	0.40
49:2r:47:THR:HG23	49:2r:49:LYS:HG3	2.04	0.40
1:1A:171:G:O2'	1:1A:172:C:H5'	2.21	0.40
1:1A:414:C:H4'	1:1A:1879:C:O2	2.21	0.40
1:1A:467:G:P	29:17:33:ARG:HH12	2.44	0.40
1:1A:596:G:H2'	1:1A:597:U:O4'	2.20	0.40
1:1A:748:G:C8	18:1W:89:ALA:HB1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1630:G:H2'	1:1A:1631:C:C6	2.57	0.40
1:1A:2143:C:H2'	1:1A:2144:U:O4'	2.21	0.40
1:1A:2823:A:OP1	4:1E:159:HIS:NE2	2.51	0.40
4:1E:26:ILE:O	4:1E:182:LEU:N	2.50	0.40
8:1I:109:ILE:HD12	8:1I:109:ILE:HA	1.76	0.40
10:1O:49:ARG:HH12	32:1a:1423:G:P	2.44	0.40
10:1O:97:ARG:CZ	10:1O:99:PHE:HE1	2.34	0.40
11:1P:37:GLY:C	11:1P:38:GLN:O	2.62	0.40
12:1Q:75:THR:HG21	12:1Q:87:LYS:HE3	2.02	0.40
14:1S:65:VAL:O	14:1S:69:VAL:HG12	2.22	0.40
18:1W:90:ARG:HE	18:1W:90:ARG:HB3	1.71	0.40
21:1Z:125:LEU:C	21:1Z:164:ALA:HB3	2.46	0.40
32:1a:506:G:C6	32:1a:507:C:C4	3.10	0.40
32:1a:629:G:H2'	32:1a:630:G:O4'	2.21	0.40
34:1c:77:ILE:HG12	34:1c:77:ILE:H	1.66	0.40
34:1c:150:LYS:HD3	34:1c:152:ILE:HD11	2.02	0.40
38:1g:65:ALA:O	38:1g:69:VAL:HG23	2.21	0.40
38:1g:75:VAL:O	38:1g:76:ARG:HG3	2.21	0.40
44:1m:117:VAL:HG12	44:1m:118:ALA:N	2.37	0.40
47:1p:4:ILE:HD12	47:1p:60:LEU:HD13	2.02	0.40
50:1s:46:GLY:CA	50:1s:61:TYR:HE1	2.34	0.40
56:1y:29:G:H2'	56:1y:30:G:O4'	2.21	0.40
1:2A:116:C:H2'	1:2A:117:G:O4'	2.21	0.40
1:2A:196:A:O4'	11:2P:46:LYS:HD2	2.22	0.40
1:2A:271(G):C:H2'	1:2A:271(H):G:C8	2.56	0.40
1:2A:287:C:H2'	1:2A:288:C:C6	2.56	0.40
1:2A:391:G:O2'	1:2A:410:G:OP1	2.23	0.40
1:2A:652(C):G:H22	1:2A:653:A:H1'	1.86	0.40
1:2A:827:U:O2'	1:2A:2068:U:C2	2.72	0.40
1:2A:864:G:N2	1:2A:913:U:C2	2.89	0.40
1:2A:879:G:H2'	1:2A:879:G:N3	2.36	0.40
1:2A:1256:G:O2'	5:2F:75:HIS:HE1	2.03	0.40
1:2A:1359:A:N3	1:2A:1359:A:H5'	2.37	0.40
1:2A:1607:C:N4	1:2A:1622:G:OP2	2.34	0.40
1:2A:1821:A:H2'	1:2A:1822:G:C8	2.56	0.40
1:2A:1913:A:H4'	1:2A:1914:C:O5'	2.20	0.40
1:2A:2333:A:H5'	1:2A:2335:A:O4'	2.20	0.40
1:2A:2397:G:N2	1:2A:2420:C:H1'	2.37	0.40
1:2A:2480:C:N4	1:2A:2481:G:C6	2.90	0.40
5:2F:65:TRP:CZ2	5:2F:75:HIS:HD2	2.39	0.40
6:2G:109:VAL:HG23	26:24:33:VAL:HG11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2S:8:GLU:H	14:2S:8:GLU:HG2	1.40	0.40
22:20:25:ARG:HD3	22:20:25:ARG:HA	1.90	0.40
32:2a:178:C:H2'	32:2a:179:A:O4'	2.22	0.40
32:2a:330:C:O2	61:2a:1923:HOH:O	2.18	0.40
32:2a:493:G:H2'	32:2a:494:U:C5	2.57	0.40
33:2b:19:HIS:CD2	33:2b:20:GLU:H	2.39	0.40
33:2b:111:ARG:HA	33:2b:111:ARG:HD3	1.90	0.40
34:2c:112:SER:HB3	34:2c:115:LEU:HB2	2.04	0.40
35:2d:95:GLY:O	35:2d:99:SER:N	2.54	0.40
35:2d:141:ARG:NH1	61:2d:401:HOH:O	2.54	0.40
40:2i:16:ARG:HB2	40:2i:64:THR:HG22	2.02	0.40
42:2k:99:GLN:HG2	42:2k:105:VAL:HG21	2.03	0.40
43:2l:69:TYR:HE2	43:2l:71:PRO:HA	1.87	0.40
1:1A:247:G:H4'	1:1A:386:G:C5	2.55	0.40
1:1A:1126:A:H4'	1:1A:1127:A:H5"	2.03	0.40
1:1A:1449:A:N3	1:1A:1529:G:H1'	2.35	0.40
1:1A:1479:G:H5"	1:1A:1560:G:H4'	2.03	0.40
1:1A:1569:A:O4'	3:1D:59:LYS:NZ	2.38	0.40
1:1A:1594:G:H2'	1:1A:1595:G:O4'	2.22	0.40
1:1A:2293:C:OP1	14:1S:89:ARG:NH2	2.42	0.40
1:1A:2319:G:N1	14:1S:3:ARG:HA	2.36	0.40
1:1A:2336:A:H61	22:10:43:THR:HG22	1.85	0.40
1:1A:2647:U:H2'	1:1A:2648:C:H6	1.87	0.40
5:1F:195:ASP:HB3	5:1F:198:ALA:H	1.85	0.40
6:1G:43:LEU:HD13	6:1G:43:LEU:HA	1.80	0.40
6:1G:109:VAL:HG11	26:14:14:ILE:HG21	2.02	0.40
9:1N:67:LEU:O	9:1N:88:GLU:HG3	2.21	0.40
11:1P:52:GLU:HB3	11:1P:55:ARG:NH1	2.37	0.40
11:1P:82:GLY:HA2	11:1P:113:LYS:O	2.20	0.40
14:1S:27:SER:O	14:1S:37:ALA:HA	2.22	0.40
21:1Z:59:LEU:HD11	21:1Z:88:PHE:CG	2.56	0.40
32:1a:262:A:C6	32:1a:263:A:C6	3.10	0.40
32:1a:452:A:OP1	47:1p:43:LYS:NZ	2.51	0.40
32:1a:985:C:H2'	32:1a:986:A:C8	2.56	0.40
32:1a:1009:G:C5	32:1a:1021:G:C6	3.10	0.40
32:1a:1055:A:H2'	34:1c:156:ARG:HD2	2.02	0.40
36:1e:45:PHE:HD1	36:1e:45:PHE:HA	1.78	0.40
36:1e:105:VAL:HB	36:1e:106:PRO:HD3	2.04	0.40
42:1k:62:GLN:O	42:1k:66:LEU:HG	2.21	0.40
44:1m:9:ILE:HB	44:1m:18:ALA:HB1	2.02	0.40
45:1n:15:LYS:HB3	45:1n:16:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:1s:36:ARG:NH2	50:1s:72:GLY:O	2.55	0.40
56:1y:57:G:H2'	56:1y:57:G:N3	2.36	0.40
1:2A:10:G:H2'	1:2A:11:G:C8	2.56	0.40
1:2A:271(D):G:H1	1:2A:271(T):C:H42	1.70	0.40
1:2A:383:U:H2'	1:2A:385:C:H5	1.87	0.40
1:2A:731:C:H5"	61:2A:3929:HOH:O	2.21	0.40
1:2A:744:G:OP1	4:2E:132:HIS:ND1	2.49	0.40
1:2A:811:U:H2'	11:2P:21:ARG:HA	2.03	0.40
1:2A:1183:G:H2'	1:2A:1184:G:H8	1.85	0.40
1:2A:1201:C:H2'	1:2A:1202:C:C6	2.57	0.40
1:2A:1474:C:N4	1:2A:1517:G:H1	2.19	0.40
1:2A:1913:A:H4'	1:2A:1914:C:C5'	2.51	0.40
1:2A:2082:A:H2'	1:2A:2083:G:O4'	2.20	0.40
1:2A:2729:G:O2'	4:2E:186:GLY:HA3	2.22	0.40
3:2D:164:GLN:OE1	3:2D:176:ARG:NH1	2.55	0.40
5:2F:28:ILE:O	5:2F:30:PRO:HD3	2.21	0.40
5:2F:161:GLU:HG2	5:2F:164:ARG:NH2	2.37	0.40
6:2G:5:VAL:HG23	6:2G:8:LYS:H	1.86	0.40
14:2S:25:ARG:HD3	14:2S:42:ASP:OD2	2.21	0.40
16:2U:61:TRP:CZ2	16:2U:93:LYS:HG3	2.57	0.40
23:21:80:LEU:HD23	23:21:82:LEU:HD21	2.02	0.40
32:2a:255:G:OP1	48:2q:69:LYS:NZ	2.41	0.40
32:2a:443:C:H2'	32:2a:444:C:C6	2.55	0.40
32:2a:553:A:H5"	43:2l:24:VAL:HG21	2.03	0.40
32:2a:934:C:H5"	61:2a:2003:HOH:O	2.20	0.40
32:2a:1040:U:H2'	32:2a:1041:A:H8	1.86	0.40
32:2a:1132:C:H2'	32:2a:1133:G:H8	1.87	0.40
33:2b:132:LYS:O	33:2b:136:VAL:HG23	2.20	0.40
35:2d:191:ARG:HA	35:2d:191:ARG:HD2	1.85	0.40
44:2m:92:HIS:CE1	44:2m:98:VAL:HG21	2.56	0.40
54:2w:47:U:H5'	54:2w:48:C:H5"	2.03	0.40
1:1A:13:A:N1	1:1A:525:U:H2'	2.37	0.40
1:1A:312:G:H5'	1:1A:331:A:O2'	2.22	0.40
1:1A:996:A:O3'	16:1U:91:ASP:HB2	2.22	0.40
1:1A:1104:C:H2'	1:1A:1105:U:O4'	2.21	0.40
1:1A:1153:C:H2'	1:1A:1154:G:O4'	2.22	0.40
1:1A:1313:U:H5"	61:1A:4734:HOH:O	2.21	0.40
1:1A:2841:C:H2'	1:1A:2842:G:C8	2.56	0.40
10:1O:70:LYS:HB3	10:1O:70:LYS:HE2	1.84	0.40
11:1P:27:HIS:O	11:1P:31:ALA:HA	2.21	0.40
13:1R:44:LEU:HD23	13:1R:44:LEU:HA	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1Z:146:ILE:HA	21:1Z:147:GLY:HA2	1.84	0.40
30:18:32:LEU:O	30:18:36:LYS:HE3	2.21	0.40
32:1a:18:C:H2'	32:1a:19:C:O4'	2.22	0.40
32:1a:401:C:H2'	32:1a:402:G:C8	2.57	0.40
32:1a:1284:C:H3'	32:1a:1285:A:C8	2.56	0.40
32:1a:1457:G:H5"	51:1t:35:THR:HG21	2.04	0.40
33:1b:158:LEU:HD12	33:1b:158:LEU:HA	1.86	0.40
38:1g:99:LEU:HD23	38:1g:102:ARG:NH1	2.37	0.40
39:1h:35:ILE:HD11	39:1h:134:ILE:HG21	2.04	0.40
42:1k:24:SER:O	42:1k:88:GLY:HA3	2.22	0.40
44:1m:27:LYS:HA	44:1m:27:LYS:HD2	1.80	0.40
48:1q:68:ARG:H	48:1q:70:ARG:NH1	2.19	0.40
56:1y:5:G:H1'	56:1y:69:G:N2	2.37	0.40
1:2A:306:U:H2'	1:2A:307:G:O4'	2.22	0.40
1:2A:578:A:H5'	1:2A:1254:A:OP1	2.20	0.40
1:2A:660:G:C6	1:2A:661:C:C4	3.09	0.40
1:2A:1675:C:O2	4:2E:128:SER:HB2	2.21	0.40
1:2A:2050:C:N4	1:2A:2051:A:C6	2.89	0.40
1:2A:2784:C:H1'	4:2E:37:ARG:NH1	2.36	0.40
4:2E:27:LEU:HG	15:2T:1:MET:HE1	2.04	0.40
10:2O:15:GLY:HA2	10:2O:47:ILE:HG12	2.02	0.40
13:2R:1:MET:HE3	13:2R:1:MET:HB2	1.83	0.40
13:2R:78:LYS:HB2	61:2R:301:HOH:O	2.20	0.40
15:2T:113:LYS:O	15:2T:114:LEU:HD23	2.22	0.40
16:2U:117:GLN:HE21	16:2U:117:GLN:HB2	1.53	0.40
25:23:28:LEU:HA	25:23:33:GLN:OE1	2.21	0.40
30:28:28:GLY:O	30:28:44:LYS:NZ	2.52	0.40
32:2a:399:G:H2'	32:2a:400:C:C6	2.56	0.40
32:2a:546:G:H4'	32:2a:548:G:O3'	2.22	0.40
32:2a:1076:C:C2	32:2a:1082:G:N2	2.89	0.40
32:2a:1099:G:OP2	33:2b:144:ARG:NH2	2.55	0.40
32:2a:1106:G:H4'	34:2c:171:GLY:O	2.22	0.40
32:2a:1118:C:H1'	32:2a:1179:A:C4	2.57	0.40
32:2a:1118:C:P	40:2i:104:ARG:HH11	2.43	0.40
32:2a:1146:A:C2	32:2a:1147:C:H1'	2.57	0.40
33:2b:79:ASP:O	33:2b:83:MET:HG2	2.22	0.40
34:2c:71:ALA:HA	34:2c:106:VAL:HB	2.04	0.40
38:2g:44:TYR:HA	38:2g:47:CYS:HB2	2.03	0.40
41:2j:78:ASN:C	41:2j:80:LYS:H	2.28	0.40
50:2s:28:LYS:HB3	50:2s:29:ARG:CB	2.51	0.40
54:2w:33:U:N3	54:2w:36:A:OP2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:2x:39:C:H2'	55:2x:40:C:C6	2.57	0.40

There are no symmetry-related clashes.

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	273/276 (99%)	261 (96%)	12 (4%)	0	100 100
3	2D	273/276 (99%)	254 (93%)	18 (7%)	1 (0%)	30 43
4	1E	202/206 (98%)	191 (95%)	8 (4%)	3 (2%)	8 12
4	2E	202/206 (98%)	189 (94%)	11 (5%)	2 (1%)	12 20
5	1F	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	24 37
5	2F	201/210 (96%)	179 (89%)	20 (10%)	2 (1%)	12 20
6	1G	179/182 (98%)	165 (92%)	14 (8%)	0	100 100
6	2G	179/182 (98%)	158 (88%)	15 (8%)	6 (3%)	3 2
7	1H	172/180 (96%)	164 (95%)	7 (4%)	1 (1%)	21 32
7	2H	172/180 (96%)	151 (88%)	17 (10%)	4 (2%)	5 6
8	1I	144/148 (97%)	123 (85%)	20 (14%)	1 (1%)	18 28
8	2I	144/148 (97%)	121 (84%)	22 (15%)	1 (1%)	18 28
9	1N	138/140 (99%)	136 (99%)	1 (1%)	1 (1%)	18 28
9	2N	138/140 (99%)	132 (96%)	5 (4%)	1 (1%)	18 28
10	1O	120/122 (98%)	111 (92%)	8 (7%)	1 (1%)	16 25
10	2O	120/122 (98%)	109 (91%)	11 (9%)	0	100 100
11	1P	147/150 (98%)	133 (90%)	14 (10%)	0	100 100
11	2P	147/150 (98%)	130 (88%)	14 (10%)	3 (2%)	6 7
12	1Q	139/141 (99%)	133 (96%)	6 (4%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
12	2Q	139/141 (99%)	119 (86%)	19 (14%)	1 (1%)	18 28
13	1R	116/118 (98%)	111 (96%)	5 (4%)	0	100 100
13	2R	116/118 (98%)	108 (93%)	8 (7%)	0	100 100
14	1S	108/112 (96%)	104 (96%)	4 (4%)	0	100 100
14	2S	108/112 (96%)	99 (92%)	8 (7%)	1 (1%)	14 22
15	1T	129/146 (88%)	118 (92%)	10 (8%)	1 (1%)	16 25
15	2T	129/146 (88%)	118 (92%)	10 (8%)	1 (1%)	16 25
16	1U	114/118 (97%)	114 (100%)	0	0	100 100
16	2U	114/118 (97%)	111 (97%)	3 (3%)	0	100 100
17	1V	99/101 (98%)	96 (97%)	2 (2%)	1 (1%)	12 20
17	2V	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	12 20
18	1W	110/113 (97%)	110 (100%)	0	0	100 100
18	2W	110/113 (97%)	107 (97%)	3 (3%)	0	100 100
19	1X	93/96 (97%)	90 (97%)	2 (2%)	1 (1%)	11 18
19	2X	93/96 (97%)	85 (91%)	7 (8%)	1 (1%)	11 18
20	1Y	105/110 (96%)	99 (94%)	5 (5%)	1 (1%)	12 20
20	2Y	105/110 (96%)	94 (90%)	9 (9%)	2 (2%)	6 8
21	1Z	148/206 (72%)	125 (84%)	22 (15%)	1 (1%)	18 28
21	2Z	156/206 (76%)	133 (85%)	20 (13%)	3 (2%)	6 8
22	10	81/85 (95%)	78 (96%)	3 (4%)	0	100 100
22	20	81/85 (95%)	77 (95%)	4 (5%)	0	100 100
23	11	95/98 (97%)	90 (95%)	3 (3%)	2 (2%)	5 7
23	21	95/98 (97%)	91 (96%)	3 (3%)	1 (1%)	11 18
24	12	68/72 (94%)	68 (100%)	0	0	100 100
24	22	68/72 (94%)	67 (98%)	1 (2%)	0	100 100
25	13	57/60 (95%)	54 (95%)	3 (5%)	0	100 100
25	23	57/60 (95%)	53 (93%)	4 (7%)	0	100 100
26	14	67/71 (94%)	50 (75%)	12 (18%)	5 (8%)	1 0
26	24	67/71 (94%)	53 (79%)	13 (19%)	1 (2%)	8 12
27	15	57/60 (95%)	56 (98%)	1 (2%)	0	100 100
27	25	57/60 (95%)	54 (95%)	3 (5%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
28	16	51/54 (94%)	51 (100%)	0	0	100 100
28	26	51/54 (94%)	48 (94%)	3 (6%)	0	100 100
29	17	46/49 (94%)	44 (96%)	2 (4%)	0	100 100
29	27	46/49 (94%)	46 (100%)	0	0	100 100
30	18	62/65 (95%)	62 (100%)	0	0	100 100
30	28	62/65 (95%)	62 (100%)	0	0	100 100
31	19	35/37 (95%)	35 (100%)	0	0	100 100
31	29	35/37 (95%)	34 (97%)	1 (3%)	0	100 100
33	1b	229/256 (90%)	187 (82%)	38 (17%)	4 (2%)	7 10
33	2b	229/256 (90%)	187 (82%)	31 (14%)	11 (5%)	2 1
34	1c	204/239 (85%)	191 (94%)	12 (6%)	1 (0%)	24 37
34	2c	204/239 (85%)	176 (86%)	26 (13%)	2 (1%)	12 20
35	1d	206/209 (99%)	190 (92%)	14 (7%)	2 (1%)	12 20
35	2d	206/209 (99%)	188 (91%)	15 (7%)	3 (2%)	8 12
36	1e	146/162 (90%)	134 (92%)	10 (7%)	2 (1%)	9 13
36	2e	146/162 (90%)	130 (89%)	14 (10%)	2 (1%)	9 13
37	1f	98/101 (97%)	93 (95%)	4 (4%)	1 (1%)	12 20
37	2f	98/101 (97%)	93 (95%)	5 (5%)	0	100 100
38	1g	153/156 (98%)	137 (90%)	14 (9%)	2 (1%)	9 14
38	2g	153/156 (98%)	133 (87%)	17 (11%)	3 (2%)	6 7
39	1h	135/138 (98%)	128 (95%)	7 (5%)	0	100 100
39	2h	135/138 (98%)	126 (93%)	8 (6%)	1 (1%)	18 28
40	1i	125/128 (98%)	111 (89%)	13 (10%)	1 (1%)	16 25
40	2i	125/128 (98%)	98 (78%)	25 (20%)	2 (2%)	7 11
41	1j	95/105 (90%)	81 (85%)	11 (12%)	3 (3%)	3 3
41	2j	94/105 (90%)	80 (85%)	9 (10%)	5 (5%)	1 1
42	1k	112/129 (87%)	103 (92%)	7 (6%)	2 (2%)	6 9
42	2k	112/129 (87%)	98 (88%)	10 (9%)	4 (4%)	2 2
43	1l	119/132 (90%)	110 (92%)	9 (8%)	0	100 100
43	2l	119/132 (90%)	107 (90%)	10 (8%)	2 (2%)	7 10
44	1m	121/126 (96%)	109 (90%)	11 (9%)	1 (1%)	16 25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
44	2m	120/126 (95%)	100 (83%)	17 (14%)	3 (2%)	4 5
45	1n	58/61 (95%)	54 (93%)	4 (7%)	0	100 100
45	2n	58/61 (95%)	47 (81%)	10 (17%)	1 (2%)	7 10
46	1o	86/89 (97%)	81 (94%)	4 (5%)	1 (1%)	10 16
46	2o	86/89 (97%)	79 (92%)	6 (7%)	1 (1%)	10 16
47	1p	80/88 (91%)	75 (94%)	5 (6%)	0	100 100
47	2p	80/88 (91%)	77 (96%)	3 (4%)	0	100 100
48	1q	97/105 (92%)	91 (94%)	4 (4%)	2 (2%)	5 7
48	2q	97/105 (92%)	86 (89%)	8 (8%)	3 (3%)	3 3
49	1r	66/88 (75%)	59 (89%)	5 (8%)	2 (3%)	3 3
49	2r	66/88 (75%)	62 (94%)	4 (6%)	0	100 100
50	1s	81/93 (87%)	72 (89%)	9 (11%)	0	100 100
50	2s	81/93 (87%)	62 (76%)	18 (22%)	1 (1%)	10 16
51	1t	94/106 (89%)	84 (89%)	6 (6%)	4 (4%)	2 1
51	2t	94/106 (89%)	82 (87%)	9 (10%)	3 (3%)	3 3
52	1u	21/27 (78%)	21 (100%)	0	0	100 100
52	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100 100
All	All	11370/12128 (94%)	10382 (91%)	861 (8%)	127 (1%)	11 18

All (127) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	1E	71	GLY
5	1F	130	ALA
7	1H	126	PRO
26	14	62	ARG
33	1b	17	PHE
40	1i	54	ASP
42	1k	49	GLY
44	1m	67	GLU
5	2F	130	ALA
8	2I	10	GLU
11	2P	45	LEU
21	2Z	93	ASP
33	2b	17	PHE
38	2g	7	ALA

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Mol	Chain	Res	Type
40	2i	101	PHE
42	2k	49	GLY
44	2m	67	GLU
48	2q	68	ARG
8	1I	10	GLU
21	1Z	52	SER
23	11	3	LYS
26	14	45	GLY
37	1f	38	GLU
48	1q	68	ARG
49	1r	33	ASP
51	1t	96	GLY
51	1t	100	ILE
4	2E	71	GLY
6	2G	44	GLY
6	2G	47	LYS
6	2G	51	ARG
7	2H	92	ILE
23	21	3	LYS
33	2b	123	ALA
35	2d	3	ARG
35	2d	171	GLY
41	2j	75	ILE
41	2j	79	ARG
42	2k	117	ASN
43	2l	91	LYS
50	2s	81	ARG
4	1E	28	ALA
20	1Y	54	LYS
23	11	84	GLY
26	14	53	GLU
33	1b	124	SER
33	1b	155	LEU
36	1e	85	GLY
41	1j	77	PRO
42	1k	105	VAL
46	1o	19	PRO
51	1t	10	LEU
5	2F	21	ALA
7	2H	126	PRO
9	2N	2	LYS
21	2Z	52	SER

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Mol	Chain	Res	Type
38	2g	55	GLY
39	2h	72	PRO
41	2j	78	ASN
44	2m	6	GLY
51	2t	10	LEU
4	1E	52	LEU
10	1O	25	LEU
15	1T	55	ASN
19	1X	94	GLY
34	1c	107	GLN
35	1d	173	TRP
41	1j	78	ASN
41	1j	91	PRO
49	1r	25	THR
4	2E	52	LEU
6	2G	43	LEU
11	2P	29	LYS
14	2S	84	GLN
21	2Z	146	ILE
33	2b	9	GLU
33	2b	20	GLU
33	2b	74	LYS
33	2b	150	SER
34	2c	51	GLY
34	2c	107	GLN
36	2e	112	LEU
40	2i	54	ASP
41	2j	29	ARG
42	2k	104	GLN
43	2l	105	TYR
44	2m	23	TYR
51	2t	95	ALA
17	1V	79	VAL
26	14	61	ARG
26	14	66	SER
33	1b	20	GLU
38	1g	52	GLU
48	1q	33	GLY
51	1t	102	GLY
7	2H	12	PRO
12	2Q	16	ARG
15	2T	37	GLY

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Mol	Chain	Res	Type
19	2X	94	GLY
26	24	11	PRO
33	2b	16	HIS
33	2b	21	ARG
33	2b	63	MET
35	2d	154	ASN
48	2q	33	GLY
48	2q	67	LYS
51	2t	100	ILE
9	1N	2	LYS
3	2D	125	ILE
6	2G	24	GLY
17	2V	79	VAL
20	2Y	54	LYS
33	2b	125	PRO
36	2e	69	VAL
36	1e	69	VAL
38	1g	80	VAL
6	2G	28	VAL
11	2P	44	GLY
20	2Y	55	TYR
38	2g	80	VAL
42	2k	105	VAL
7	2H	169	VAL
35	1d	197	PRO
33	2b	232	PRO
41	2j	77	PRO
45	2n	14	PRO
46	2o	19	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	215/218 (99%)	205 (95%)	10 (5%)	23 41
3	2D	215/218 (99%)	203 (94%)	12 (6%)	19 33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
4	1E	164/166 (99%)	152 (93%)	12 (7%)	13 22
4	2E	164/166 (99%)	147 (90%)	17 (10%)	7 10
5	1F	160/166 (96%)	148 (92%)	12 (8%)	12 21
5	2F	159/166 (96%)	141 (89%)	18 (11%)	5 8
6	1G	143/156 (92%)	130 (91%)	13 (9%)	9 14
6	2G	143/156 (92%)	124 (87%)	19 (13%)	4 5
7	1H	144/148 (97%)	136 (94%)	8 (6%)	19 33
7	2H	144/148 (97%)	135 (94%)	9 (6%)	16 29
8	1I	113/124 (91%)	96 (85%)	17 (15%)	3 3
8	2I	105/124 (85%)	81 (77%)	24 (23%)	1 1
9	1N	118/119 (99%)	109 (92%)	9 (8%)	12 21
9	2N	118/119 (99%)	106 (90%)	12 (10%)	7 11
10	1O	100/100 (100%)	95 (95%)	5 (5%)	22 38
10	2O	100/100 (100%)	93 (93%)	7 (7%)	14 24
11	1P	115/116 (99%)	102 (89%)	13 (11%)	5 8
11	2P	115/116 (99%)	100 (87%)	15 (13%)	4 5
12	1Q	111/111 (100%)	103 (93%)	8 (7%)	13 23
12	2Q	111/111 (100%)	105 (95%)	6 (5%)	20 35
13	1R	101/101 (100%)	90 (89%)	11 (11%)	6 9
13	2R	101/101 (100%)	94 (93%)	7 (7%)	14 24
14	1S	86/88 (98%)	75 (87%)	11 (13%)	4 6
14	2S	85/88 (97%)	70 (82%)	15 (18%)	2 2
15	1T	115/127 (91%)	108 (94%)	7 (6%)	17 30
15	2T	113/127 (89%)	102 (90%)	11 (10%)	8 12
16	1U	93/94 (99%)	87 (94%)	6 (6%)	15 27
16	2U	93/94 (99%)	87 (94%)	6 (6%)	15 27
17	1V	80/82 (98%)	72 (90%)	8 (10%)	7 11
17	2V	80/82 (98%)	69 (86%)	11 (14%)	3 4
18	1W	90/92 (98%)	84 (93%)	6 (7%)	15 26
18	2W	90/92 (98%)	83 (92%)	7 (8%)	11 20
19	1X	77/78 (99%)	70 (91%)	7 (9%)	9 14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
19	2X	77/78 (99%)	73 (95%)	4 (5%)	21 36
20	1Y	85/91 (93%)	74 (87%)	11 (13%)	4 6
20	2Y	85/91 (93%)	76 (89%)	9 (11%)	6 10
21	1Z	135/179 (75%)	122 (90%)	13 (10%)	8 12
21	2Z	137/179 (76%)	115 (84%)	22 (16%)	2 3
22	10	65/67 (97%)	65 (100%)	0	100 100
22	20	65/67 (97%)	65 (100%)	0	100 100
23	11	80/83 (96%)	78 (98%)	2 (2%)	42 64
23	21	80/83 (96%)	73 (91%)	7 (9%)	9 15
24	12	65/67 (97%)	61 (94%)	4 (6%)	16 29
24	22	65/67 (97%)	60 (92%)	5 (8%)	12 20
25	13	51/52 (98%)	46 (90%)	5 (10%)	7 12
25	23	50/52 (96%)	44 (88%)	6 (12%)	5 7
26	14	59/63 (94%)	48 (81%)	11 (19%)	1 2
26	24	53/63 (84%)	44 (83%)	9 (17%)	2 2
27	15	50/52 (96%)	43 (86%)	7 (14%)	3 4
27	25	50/52 (96%)	46 (92%)	4 (8%)	11 19
28	16	51/52 (98%)	47 (92%)	4 (8%)	11 20
28	26	50/52 (96%)	44 (88%)	6 (12%)	5 7
29	17	41/42 (98%)	37 (90%)	4 (10%)	7 12
29	27	41/42 (98%)	39 (95%)	2 (5%)	22 39
30	18	54/55 (98%)	49 (91%)	5 (9%)	8 14
30	28	54/55 (98%)	49 (91%)	5 (9%)	8 14
31	19	34/34 (100%)	32 (94%)	2 (6%)	18 31
31	29	34/34 (100%)	33 (97%)	1 (3%)	37 60
33	1b	192/220 (87%)	172 (90%)	20 (10%)	7 10
33	2b	187/220 (85%)	159 (85%)	28 (15%)	3 3
34	1c	142/188 (76%)	127 (89%)	15 (11%)	6 10
34	2c	140/188 (74%)	128 (91%)	12 (9%)	10 16
35	1d	169/181 (93%)	145 (86%)	24 (14%)	3 4
35	2d	173/181 (96%)	153 (88%)	20 (12%)	5 8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
36	1e	113/123 (92%)	98 (87%)	15 (13%)	4 5
36	2e	114/123 (93%)	100 (88%)	14 (12%)	4 6
37	1f	84/90 (93%)	77 (92%)	7 (8%)	10 17
37	2f	85/90 (94%)	77 (91%)	8 (9%)	8 13
38	1g	119/127 (94%)	104 (87%)	15 (13%)	4 6
38	2g	120/127 (94%)	106 (88%)	14 (12%)	5 7
39	1h	114/119 (96%)	107 (94%)	7 (6%)	17 30
39	2h	114/119 (96%)	101 (89%)	13 (11%)	5 8
40	1i	90/99 (91%)	80 (89%)	10 (11%)	6 9
40	2i	89/99 (90%)	74 (83%)	15 (17%)	2 3
41	1j	66/92 (72%)	62 (94%)	4 (6%)	17 30
41	2j	69/92 (75%)	63 (91%)	6 (9%)	9 16
42	1k	82/99 (83%)	74 (90%)	8 (10%)	7 12
42	2k	83/99 (84%)	79 (95%)	4 (5%)	23 40
43	1l	96/108 (89%)	90 (94%)	6 (6%)	16 29
43	2l	96/108 (89%)	89 (93%)	7 (7%)	13 22
44	1m	93/101 (92%)	83 (89%)	10 (11%)	6 9
44	2m	92/101 (91%)	83 (90%)	9 (10%)	7 12
45	1n	49/50 (98%)	42 (86%)	7 (14%)	3 4
45	2n	49/50 (98%)	43 (88%)	6 (12%)	5 7
46	1o	78/80 (98%)	68 (87%)	10 (13%)	4 6
46	2o	78/80 (98%)	75 (96%)	3 (4%)	29 49
47	1p	69/74 (93%)	57 (83%)	12 (17%)	2 2
47	2p	68/74 (92%)	56 (82%)	12 (18%)	2 2
48	1q	94/97 (97%)	90 (96%)	4 (4%)	26 44
48	2q	94/97 (97%)	90 (96%)	4 (4%)	26 44
49	1r	59/77 (77%)	51 (86%)	8 (14%)	3 5
49	2r	59/77 (77%)	57 (97%)	2 (3%)	32 54
50	1s	69/80 (86%)	63 (91%)	6 (9%)	9 16
50	2s	67/80 (84%)	60 (90%)	7 (10%)	7 10
51	1t	70/82 (85%)	65 (93%)	5 (7%)	13 23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
51	2t	70/82 (85%)	68 (97%)	2 (3%)	37 60
52	1u	18/22 (82%)	17 (94%)	1 (6%)	19 33
52	2u	18/22 (82%)	18 (100%)	0	100 100
All	All	9303/10064 (92%)	8416 (90%)	887 (10%)	8 13

All (887) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	14	ARG
3	1D	32	SER
3	1D	71	ASP
3	1D	99	ASP
3	1D	113	VAL
3	1D	142	VAL
3	1D	173	VAL
3	1D	211	ARG
3	1D	242	ARG
3	1D	273	ARG
4	1E	9	VAL
4	1E	21	VAL
4	1E	34	VAL
4	1E	47	VAL
4	1E	73	GLU
4	1E	75	VAL
4	1E	116	VAL
4	1E	163	GLU
4	1E	178	GLU
4	1E	181	LEU
4	1E	184	VAL
4	1E	188	VAL
5	1F	24	LEU
5	1F	43	LYS
5	1F	53	THR
5	1F	57	VAL
5	1F	74	ARG
5	1F	88	VAL
5	1F	132	VAL
5	1F	136	THR
5	1F	175	THR
5	1F	183	VAL
5	1F	192	LEU

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Mol	Chain	Res	Type
5	1F	201	VAL
6	1G	21	ARG
6	1G	31	VAL
6	1G	43	LEU
6	1G	45	GLU
6	1G	49	ASP
6	1G	82	LEU
6	1G	91	ARG
6	1G	92	VAL
6	1G	139	LEU
6	1G	140	ILE
6	1G	159	VAL
6	1G	165	THR
6	1G	175	LEU
7	1H	15	VAL
7	1H	33	LEU
7	1H	56	SER
7	1H	76	VAL
7	1H	81	GLU
7	1H	84	SER
7	1H	107	VAL
7	1H	124	GLU
8	1I	9	LEU
8	1I	10	GLU
8	1I	40	THR
8	1I	41	GLU
8	1I	47	LEU
8	1I	50	ARG
8	1I	75	LEU
8	1I	76	THR
8	1I	86	THR
8	1I	92	VAL
8	1I	108	THR
8	1I	109	ILE
8	1I	116	LEU
8	1I	123	LEU
8	1I	127	VAL
8	1I	133	HIS
8	1I	140	LEU
9	1N	9	VAL
9	1N	28	THR
9	1N	33	LEU

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Mol	Chain	Res	Type
9	1N	46	VAL
9	1N	62	VAL
9	1N	68	GLU
9	1N	96	GLU
9	1N	99	LEU
9	1N	127	ASP
10	1O	10	VAL
10	1O	28	SER
10	1O	64	ARG
10	1O	89	ASN
10	1O	98	VAL
11	1P	3	LEU
11	1P	45	LEU
11	1P	55	ARG
11	1P	83	VAL
11	1P	95	VAL
11	1P	101	VAL
11	1P	112	LEU
11	1P	117	GLU
11	1P	119	GLU
11	1P	123	LEU
11	1P	133	SER
11	1P	147	LEU
11	1P	149	GLU
12	1Q	7	MET
12	1Q	35	VAL
12	1Q	38	GLU
12	1Q	59	ARG
12	1Q	60	ARG
12	1Q	109	VAL
12	1Q	110	THR
12	1Q	130	LYS
13	1R	15	SER
13	1R	29	LEU
13	1R	33	ARG
13	1R	36	THR
13	1R	44	LEU
13	1R	54	LEU
13	1R	67	LEU
13	1R	79	LEU
13	1R	100	LEU
13	1R	111	LEU

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Mol	Chain	Res	Type
13	1R	114	VAL
14	1S	14	VAL
14	1S	25	ARG
14	1S	46	VAL
14	1S	49	VAL
14	1S	50	SER
14	1S	53	SER
14	1S	69	VAL
14	1S	73	LEU
14	1S	78	LEU
14	1S	85	VAL
14	1S	110	LEU
15	1T	28	VAL
15	1T	38	ASN
15	1T	48	ILE
15	1T	49	VAL
15	1T	89	VAL
15	1T	96	ARG
15	1T	104	ASN
16	1U	8	VAL
16	1U	17	ILE
16	1U	74	LEU
16	1U	85	LYS
16	1U	95	LEU
16	1U	111	GLU
17	1V	10	LYS
17	1V	46	VAL
17	1V	51	VAL
17	1V	52	VAL
17	1V	56	SER
17	1V	61	VAL
17	1V	70	ILE
17	1V	79	VAL
18	1W	11	ARG
18	1W	15	ARG
18	1W	24	ILE
18	1W	50	VAL
18	1W	67	ASP
18	1W	96	ILE
19	1X	35	THR
19	1X	37	THR
19	1X	45	THR

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Mol	Chain	Res	Type
19	1X	68	ARG
19	1X	87	GLN
19	1X	92	LEU
19	1X	93	GLU
20	1Y	5	MET
20	1Y	7	VAL
20	1Y	14	LEU
20	1Y	43	ASN
20	1Y	55	TYR
20	1Y	67	LEU
20	1Y	72	VAL
20	1Y	90	LEU
20	1Y	91	GLU
20	1Y	99	CYS
20	1Y	106	LEU
21	1Z	18	LEU
21	1Z	61	LEU
21	1Z	69	THR
21	1Z	91	LEU
21	1Z	104	PHE
21	1Z	124	ILE
21	1Z	126	VAL
21	1Z	149	SER
21	1Z	153	SER
21	1Z	154	ASP
21	1Z	155	LEU
21	1Z	170	THR
21	1Z	171	ILE
23	11	59	THR
23	11	80	LEU
24	12	19	VAL
24	12	50	ILE
24	12	53	LEU
24	12	70	GLN
25	13	18	ASP
25	13	34	GLU
25	13	37	LEU
25	13	54	VAL
25	13	60	GLU
26	14	3	GLU
26	14	28	LYS
26	14	35	VAL

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Mol	Chain	Res	Type
26	14	49	PHE
26	14	52	THR
26	14	56	VAL
26	14	59	PHE
26	14	61	ARG
26	14	63	TYR
26	14	65	ASP
26	14	67	TYR
27	15	6	VAL
27	15	26	THR
27	15	40	LYS
27	15	55	ARG
27	15	58	LEU
27	15	59	GLU
27	15	60	VAL
28	16	6	ARG
28	16	9	LEU
28	16	47	THR
28	16	48	VAL
29	17	41	ARG
29	17	43	THR
29	17	46	VAL
29	17	47	ARG
30	18	14	VAL
30	18	23	VAL
30	18	32	LEU
30	18	50	LEU
30	18	58	ILE
31	19	7	VAL
31	19	15	LYS
33	1b	8	LYS
33	1b	12	GLU
33	1b	21	ARG
33	1b	35	GLU
33	1b	39	ILE
33	1b	64	ARG
33	1b	75	LYS
33	1b	80	ILE
33	1b	101	MET
33	1b	112	VAL
33	1b	124	SER
33	1b	127	ILE

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Mol	Chain	Res	Type
33	1b	154	LEU
33	1b	189	ASP
33	1b	196	LEU
33	1b	200	ILE
33	1b	208	ILE
33	1b	217	ARG
33	1b	219	VAL
33	1b	222	ILE
34	1c	8	ILE
34	1c	20	SER
34	1c	49	SER
34	1c	68	VAL
34	1c	72	LYS
34	1c	77	ILE
34	1c	105	GLU
34	1c	110	ASN
34	1c	115	LEU
34	1c	138	VAL
34	1c	192	THR
34	1c	195	VAL
34	1c	201	TYR
34	1c	206	GLU
34	1c	207	VAL
35	1d	3	ARG
35	1d	19	LEU
35	1d	46	LYS
35	1d	49	ARG
35	1d	59	ARG
35	1d	73	ARG
35	1d	76	ARG
35	1d	85	LYS
35	1d	127	THR
35	1d	134	ASP
35	1d	141	ARG
35	1d	144	ASP
35	1d	148	VAL
35	1d	155	LEU
35	1d	157	LEU
35	1d	158	ILE
35	1d	162	LEU
35	1d	175	SER
35	1d	177	ASP

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Mol	Chain	Res	Type
35	1d	178	VAL
35	1d	190	ASP
35	1d	193	ASP
35	1d	194	LEU
35	1d	200	GLU
36	1e	11	ILE
36	1e	24	ARG
36	1e	31	LEU
36	1e	41	VAL
36	1e	51	VAL
36	1e	56	GLN
36	1e	67	VAL
36	1e	68	GLU
36	1e	75	THR
36	1e	79	GLU
36	1e	81	GLU
36	1e	82	VAL
36	1e	91	LEU
36	1e	126	ARG
36	1e	141	GLN
37	1f	10	LEU
37	1f	40	VAL
37	1f	43	LEU
37	1f	70	ASP
37	1f	72	VAL
37	1f	78	GLU
37	1f	93	SER
38	1g	8	GLU
38	1g	12	LEU
38	1g	13	GLN
38	1g	21	VAL
38	1g	37	ASN
38	1g	47	CYS
38	1g	50	ILE
38	1g	59	LEU
38	1g	61	VAL
38	1g	92	SER
38	1g	104	LEU
38	1g	110	GLN
38	1g	113	GLU
38	1g	115	ARG
38	1g	120	ILE

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Mol	Chain	Res	Type
39	1h	23	SER
39	1h	51	VAL
39	1h	52	ASP
39	1h	91	ARG
39	1h	97	VAL
39	1h	127	LEU
39	1h	129	VAL
40	1i	23	ASN
40	1i	27	THR
40	1i	41	VAL
40	1i	50	LEU
40	1i	56	LEU
40	1i	64	THR
40	1i	86	VAL
40	1i	92	TYR
40	1i	105	ASP
40	1i	128	ARG
41	1j	49	VAL
41	1j	81	THR
41	1j	98	ILE
41	1j	100	THR
42	1k	25	TYR
42	1k	30	VAL
42	1k	31	THR
42	1k	48	ILE
42	1k	108	ILE
42	1k	109	VAL
42	1k	112	THR
42	1k	114	VAL
43	1l	13	LYS
43	1l	18	VAL
43	1l	36	VAL
43	1l	55	VAL
43	1l	83	VAL
43	1l	114	LYS
44	1m	4	ILE
44	1m	8	GLU
44	1m	17	VAL
44	1m	45	VAL
44	1m	49	THR
44	1m	61	GLU
44	1m	64	TRP

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Mol	Chain	Res	Type
44	1m	94	ARG
44	1m	108	ARG
44	1m	109	THR
45	1n	3	ARG
45	1n	7	ILE
45	1n	9	LYS
45	1n	13	THR
45	1n	18	VAL
45	1n	33	VAL
45	1n	56	VAL
46	1o	7	GLU
46	1o	21	ASP
46	1o	27	VAL
46	1o	39	LEU
46	1o	48	LYS
46	1o	76	GLU
46	1o	77	ARG
46	1o	84	LYS
46	1o	87	ILE
46	1o	88	ARG
47	1p	2	VAL
47	1p	16	HIS
47	1p	20	VAL
47	1p	21	VAL
47	1p	27	LYS
47	1p	31	LYS
47	1p	45	THR
47	1p	50	LYS
47	1p	60	LEU
47	1p	62	VAL
47	1p	67	THR
47	1p	72	ARG
48	1q	11	VAL
48	1q	35	VAL
48	1q	39	SER
48	1q	76	LEU
49	1r	22	VAL
49	1r	26	LEU
49	1r	31	LEU
49	1r	38	GLU
49	1r	46	GLU
49	1r	49	LYS

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Mol	Chain	Res	Type
49	1r	66	LEU
49	1r	76	LEU
50	1s	7	LYS
50	1s	16	LEU
50	1s	32	LYS
50	1s	37	ARG
50	1s	41	VAL
50	1s	51	VAL
51	1t	10	LEU
51	1t	13	LEU
51	1t	19	SER
51	1t	24	LEU
51	1t	53	LEU
52	1u	20	LYS
3	2D	14	ARG
3	2D	22	SER
3	2D	26	LYS
3	2D	71	ASP
3	2D	88	ARG
3	2D	99	ASP
3	2D	141	VAL
3	2D	142	VAL
3	2D	173	VAL
3	2D	204	ILE
3	2D	229	VAL
3	2D	242	ARG
4	2E	9	VAL
4	2E	12	THR
4	2E	21	VAL
4	2E	27	LEU
4	2E	34	VAL
4	2E	75	VAL
4	2E	90	THR
4	2E	93	VAL
4	2E	100	GLU
4	2E	116	VAL
4	2E	119	ARG
4	2E	175	VAL
4	2E	178	GLU
4	2E	181	LEU
4	2E	183	LEU
4	2E	184	VAL

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Mol	Chain	Res	Type
4	2E	195	LEU
5	2F	15	SER
5	2F	24	LEU
5	2F	33	LEU
5	2F	57	VAL
5	2F	88	VAL
5	2F	98	SER
5	2F	110	LEU
5	2F	125	LEU
5	2F	132	VAL
5	2F	144	LYS
5	2F	145	GLU
5	2F	158	THR
5	2F	165	ARG
5	2F	170	LEU
5	2F	186	ILE
5	2F	192	LEU
5	2F	195	ASP
5	2F	201	VAL
6	2G	3	LEU
6	2G	9	ARG
6	2G	28	VAL
6	2G	38	VAL
6	2G	53	LEU
6	2G	70	VAL
6	2G	79	ASN
6	2G	91	ARG
6	2G	115	ARG
6	2G	124	SER
6	2G	133	LEU
6	2G	140	ILE
6	2G	144	ILE
6	2G	148	MET
6	2G	152	LEU
6	2G	159	VAL
6	2G	162	THR
6	2G	165	THR
6	2G	175	LEU
7	2H	15	VAL
7	2H	44	VAL
7	2H	62	LYS
7	2H	70	THR

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Mol	Chain	Res	Type
7	2H	88	LEU
7	2H	106	THR
7	2H	114	VAL
7	2H	125	VAL
7	2H	130	ARG
8	2I	12	LEU
8	2I	38	LEU
8	2I	40	THR
8	2I	44	LEU
8	2I	45	LYS
8	2I	50	ARG
8	2I	51	ILE
8	2I	58	LEU
8	2I	61	ARG
8	2I	68	LEU
8	2I	73	GLU
8	2I	74	ASN
8	2I	75	LEU
8	2I	79	ILE
8	2I	87	LYS
8	2I	91	SER
8	2I	92	VAL
8	2I	101	LEU
8	2I	102	SER
8	2I	127	VAL
8	2I	139	GLN
8	2I	142	VAL
8	2I	143	SER
8	2I	144	VAL
9	2N	9	VAL
9	2N	14	VAL
9	2N	28	THR
9	2N	33	LEU
9	2N	38	HIS
9	2N	46	VAL
9	2N	48	MET
9	2N	54	VAL
9	2N	58	ASP
9	2N	62	VAL
9	2N	68	GLU
9	2N	99	LEU
10	2O	24	VAL

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Mol	Chain	Res	Type
10	2O	57	VAL
10	2O	64	ARG
10	2O	65	THR
10	2O	78	ARG
10	2O	98	VAL
10	2O	108	GLU
11	2P	3	LEU
11	2P	15	ARG
11	2P	21	ARG
11	2P	45	LEU
11	2P	55	ARG
11	2P	71	VAL
11	2P	77	ARG
11	2P	83	VAL
11	2P	95	VAL
11	2P	96	THR
11	2P	99	LEU
11	2P	112	LEU
11	2P	121	LYS
11	2P	123	LEU
11	2P	148	LEU
12	2Q	1	MET
12	2Q	5	ARG
12	2Q	18	LYS
12	2Q	71	ASP
12	2Q	109	VAL
12	2Q	130	LYS
13	2R	29	LEU
13	2R	44	LEU
13	2R	60	LEU
13	2R	67	LEU
13	2R	79	LEU
13	2R	100	LEU
13	2R	114	VAL
14	2S	8	GLU
14	2S	11	LYS
14	2S	15	ARG
14	2S	26	LEU
14	2S	27	SER
14	2S	40	ILE
14	2S	43	GLU
14	2S	48	LEU

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Mol	Chain	Res	Type
14	2S	52	SER
14	2S	58	LEU
14	2S	63	THR
14	2S	64	GLU
14	2S	80	LEU
14	2S	93	LYS
14	2S	110	LEU
15	2T	9	LEU
15	2T	28	VAL
15	2T	31	SER
15	2T	40	THR
15	2T	49	VAL
15	2T	72	VAL
15	2T	74	ARG
15	2T	85	LYS
15	2T	89	VAL
15	2T	96	ARG
15	2T	107	ASP
16	2U	5	LYS
16	2U	74	LEU
16	2U	78	THR
16	2U	95	LEU
16	2U	111	GLU
16	2U	117	GLN
17	2V	7	THR
17	2V	18	LEU
17	2V	46	VAL
17	2V	52	VAL
17	2V	53	GLU
17	2V	57	VAL
17	2V	61	VAL
17	2V	79	VAL
17	2V	85	LYS
17	2V	93	GLU
17	2V	98	GLU
18	2W	11	ARG
18	2W	17	VAL
18	2W	19	LEU
18	2W	50	VAL
18	2W	67	ASP
18	2W	96	ILE
18	2W	109	GLU

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Mol	Chain	Res	Type
19	2X	45	THR
19	2X	81	VAL
19	2X	90	GLU
19	2X	93	GLU
20	2Y	7	VAL
20	2Y	14	LEU
20	2Y	55	TYR
20	2Y	72	VAL
20	2Y	90	LEU
20	2Y	91	GLU
20	2Y	97	ARG
20	2Y	99	CYS
20	2Y	106	LEU
21	2Z	24	LEU
21	2Z	37	VAL
21	2Z	42	VAL
21	2Z	56	VAL
21	2Z	57	ILE
21	2Z	66	SER
21	2Z	69	THR
21	2Z	74	VAL
21	2Z	84	GLU
21	2Z	90	VAL
21	2Z	91	LEU
21	2Z	100	VAL
21	2Z	102	LEU
21	2Z	121	HIS
21	2Z	124	ILE
21	2Z	126	VAL
21	2Z	133	ILE
21	2Z	144	LEU
21	2Z	145	GLU
21	2Z	148	ASP
21	2Z	154	ASP
21	2Z	161	VAL
23	21	21	ARG
23	21	46	LEU
23	21	58	ILE
23	21	65	SER
23	21	78	LYS
23	21	80	LEU
23	21	92	LYS

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Mol	Chain	Res	Type
24	22	3	LEU
24	22	19	VAL
24	22	46	GLN
24	22	49	LYS
24	22	59	ARG
25	23	3	ARG
25	23	7	LYS
25	23	28	LEU
25	23	34	GLU
25	23	35	ARG
25	23	54	VAL
26	24	1	MET
26	24	26	SER
26	24	27	THR
26	24	34	GLU
26	24	49	PHE
26	24	56	VAL
26	24	59	PHE
26	24	61	ARG
26	24	67	TYR
27	25	6	VAL
27	25	58	LEU
27	25	59	GLU
27	25	60	VAL
28	26	9	LEU
28	26	14	THR
28	26	30	THR
28	26	48	VAL
28	26	51	GLU
28	26	52	VAL
29	27	43	THR
29	27	46	VAL
30	28	3	LYS
30	28	14	VAL
30	28	23	VAL
30	28	32	LEU
30	28	49	VAL
31	29	17	ILE
33	2b	7	VAL
33	2b	9	GLU
33	2b	11	LEU
33	2b	16	HIS

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Mol	Chain	Res	Type
33	2b	35	GLU
33	2b	39	ILE
33	2b	76	GLN
33	2b	78	GLN
33	2b	94	ASN
33	2b	95	GLN
33	2b	110	GLN
33	2b	112	VAL
33	2b	115	LEU
33	2b	117	GLU
33	2b	118	LEU
33	2b	127	ILE
33	2b	135	GLN
33	2b	142	LEU
33	2b	144	ARG
33	2b	158	LEU
33	2b	168	THR
33	2b	185	ILE
33	2b	187	LEU
33	2b	189	ASP
33	2b	198	ASP
33	2b	215	LEU
33	2b	223	ILE
33	2b	230	VAL
34	2c	49	SER
34	2c	55	VAL
34	2c	57	ILE
34	2c	70	VAL
34	2c	77	ILE
34	2c	101	LEU
34	2c	105	GLU
34	2c	132	ARG
34	2c	164	ARG
34	2c	166	GLU
34	2c	190	ARG
34	2c	196	LEU
35	2d	5	ILE
35	2d	8	VAL
35	2d	28	SER
35	2d	31	CYS
35	2d	60	GLU
35	2d	83	SER

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Mol	Chain	Res	Type
35	2d	86	LYS
35	2d	96	LEU
35	2d	135	LEU
35	2d	150	GLU
35	2d	155	LEU
35	2d	156	GLU
35	2d	158	ILE
35	2d	169	LYS
35	2d	170	VAL
35	2d	178	VAL
35	2d	181	MET
35	2d	188	LEU
35	2d	196	LEU
35	2d	203	VAL
36	2e	13	ILE
36	2e	20	GLN
36	2e	24	ARG
36	2e	41	VAL
36	2e	51	VAL
36	2e	53	LEU
36	2e	64	ARG
36	2e	67	VAL
36	2e	81	GLU
36	2e	89	ILE
36	2e	139	LEU
36	2e	144	THR
36	2e	148	VAL
36	2e	149	GLU
37	2f	19	LEU
37	2f	40	VAL
37	2f	45	LEU
37	2f	69	GLU
37	2f	83	ASP
37	2f	93	SER
37	2f	94	GLN
37	2f	95	GLU
38	2g	9	VAL
38	2g	15	ASP
38	2g	16	LEU
38	2g	23	VAL
38	2g	30	ILE
38	2g	32	ARG

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Mol	Chain	Res	Type
38	2g	66	VAL
38	2g	77	SER
38	2g	78	ARG
38	2g	90	GLU
38	2g	96	GLN
38	2g	98	SER
38	2g	106	GLN
38	2g	113	GLU
39	2h	8	ASP
39	2h	11	THR
39	2h	22	GLU
39	2h	24	THR
39	2h	26	VAL
39	2h	29	SER
39	2h	51	VAL
39	2h	52	ASP
39	2h	91	ARG
39	2h	97	VAL
39	2h	99	GLU
39	2h	114	THR
39	2h	129	VAL
40	2i	7	THR
40	2i	14	VAL
40	2i	28	VAL
40	2i	47	LEU
40	2i	50	LEU
40	2i	51	ARG
40	2i	53	VAL
40	2i	63	ILE
40	2i	65	VAL
40	2i	75	ASP
40	2i	89	ASN
40	2i	92	TYR
40	2i	103	THR
40	2i	108	VAL
40	2i	113	LYS
41	2j	23	ILE
41	2j	38	ILE
41	2j	45	ARG
41	2j	72	VAL
41	2j	81	THR
41	2j	100	THR

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Mol	Chain	Res	Type
42	2k	14	VAL
42	2k	78	GLN
42	2k	79	SER
42	2k	112	THR
43	2l	18	VAL
43	2l	40	VAL
43	2l	62	SER
43	2l	67	THR
43	2l	83	VAL
43	2l	91	LYS
43	2l	97	ARG
44	2m	27	LYS
44	2m	32	GLU
44	2m	47	ASP
44	2m	62	ASN
44	2m	80	ARG
44	2m	83	ASP
44	2m	90	LEU
44	2m	103	THR
44	2m	117	VAL
45	2n	4	LYS
45	2n	18	VAL
45	2n	33	VAL
45	2n	46	GLU
45	2n	50	LYS
45	2n	56	VAL
46	2o	7	GLU
46	2o	39	LEU
46	2o	87	ILE
47	2p	1	MET
47	2p	2	VAL
47	2p	5	ARG
47	2p	8	ARG
47	2p	20	VAL
47	2p	21	VAL
47	2p	27	LYS
47	2p	45	THR
47	2p	60	LEU
47	2p	62	VAL
47	2p	67	THR
47	2p	71	ARG
48	2q	37	LYS

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Mol	Chain	Res	Type
48	2q	56	VAL
48	2q	63	ARG
48	2q	83	ASP
49	2r	21	LYS
49	2r	44	LEU
50	2s	9	VAL
50	2s	22	LEU
50	2s	31	ILE
50	2s	41	VAL
50	2s	49	ILE
50	2s	57	HIS
50	2s	77	THR
51	2t	24	LEU
51	2t	71	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (138) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	87	ASN
3	1D	166	GLN
3	1D	203	ASN
4	1E	48	GLN
4	1E	180	ASN
5	1F	8	GLN
5	1F	69	HIS
5	1F	133	ASN
5	1F	203	GLN
6	1G	26	GLN
8	1I	133	HIS
9	1N	8	GLN
9	1N	94	HIS
12	1Q	12	GLN
12	1Q	57	HIS
13	1R	61	HIS
14	1S	61	ASN
15	1T	43	GLN
15	1T	58	ASN
16	1U	94	ASN
18	1W	111	HIS
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS

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Mol	Chain	Res	Type
21	1Z	32	HIS
21	1Z	73	GLN
21	1Z	75	ASN
21	1Z	132	ASN
22	10	50	ASN
24	12	56	GLN
25	13	32	GLN
33	1b	95	GLN
33	1b	140	HIS
33	1b	212	GLN
34	1c	6	HIS
34	1c	102	ASN
34	1c	162	GLN
34	1c	181	ASN
35	1d	77	ASN
35	1d	116	GLN
35	1d	119	GLN
35	1d	123	HIS
35	1d	161	ASN
36	1e	20	GLN
36	1e	78	HIS
37	1f	73	ASN
37	1f	100	ASN
38	1g	13	GLN
38	1g	28	ASN
38	1g	148	ASN
40	1i	3	GLN
40	1i	23	ASN
40	1i	31	GLN
40	1i	34	ASN
40	1i	58	HIS
40	1i	73	GLN
40	1i	117	HIS
40	1i	124	GLN
42	1k	22	HIS
42	1k	117	ASN
43	1l	80	HIS
43	1l	99	HIS
44	1m	77	ASN
44	1m	92	HIS
44	1m	106	ASN
46	1o	46	HIS

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Mol	Chain	Res	Type
47	1p	13	HIS
48	1q	93	GLN
49	1r	63	GLN
50	1s	23	ASN
50	1s	47	HIS
50	1s	83	HIS
3	2D	87	ASN
3	2D	166	GLN
5	2F	69	HIS
5	2F	75	HIS
5	2F	160	ASN
6	2G	26	GLN
6	2G	27	ASN
6	2G	58	GLN
6	2G	123	ASN
6	2G	132	ASN
7	2H	111	HIS
9	2N	8	GLN
9	2N	94	HIS
9	2N	131	GLN
10	2O	5	GLN
12	2Q	12	GLN
12	2Q	57	HIS
13	2R	13	HIS
13	2R	24	GLN
13	2R	71	GLN
14	2S	38	GLN
15	2T	58	ASN
15	2T	84	GLN
16	2U	117	GLN
19	2X	31	HIS
19	2X	82	GLN
21	2Z	55	HIS
21	2Z	73	GLN
22	20	17	GLN
22	20	35	ASN
22	20	50	ASN
24	22	56	GLN
25	23	32	GLN
26	24	40	HIS
26	24	46	GLN
30	28	43	GLN

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Mol	Chain	Res	Type
33	2b	135	GLN
33	2b	212	GLN
34	2c	162	GLN
35	2d	45	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	201	GLN
36	2e	20	GLN
36	2e	72	GLN
37	2f	73	ASN
37	2f	94	GLN
37	2f	100	ASN
38	2g	68	ASN
40	2i	3	GLN
40	2i	58	HIS
40	2i	87	GLN
41	2j	21	GLN
41	2j	62	HIS
42	2k	78	GLN
44	2m	12	ASN
44	2m	77	ASN
46	2o	9	GLN
47	2p	13	HIS
48	2q	93	GLN
49	2r	63	GLN
50	2s	47	HIS
50	2s	57	HIS
50	2s	69	HIS
51	2t	16	HIS
51	2t	75	ASN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	476 (16%)	34 (1%)
1	2A	2791/2915 (95%)	501 (17%)	25 (0%)
2	1B	119/121 (98%)	8 (6%)	0
2	2B	118/121 (97%)	28 (23%)	0
32	1a	1497/1521 (98%)	265 (17%)	0
32	2a	1501/1521 (98%)	290 (19%)	0
53	1v	12/24 (50%)	1 (8%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
53	2v	12/24 (50%)	1 (8%)	0
54	1w	71/76 (93%)	23 (32%)	0
54	2w	68/76 (89%)	25 (36%)	0
55	1x	74/77 (96%)	10 (13%)	0
55	2x	74/77 (96%)	7 (9%)	0
56	1y	72/76 (94%)	26 (36%)	0
56	2y	70/76 (92%)	26 (37%)	0
All	All	9343/9620 (97%)	1687 (18%)	59 (0%)

All (1687) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	10	G
1	1A	12	U
1	1A	14	A
1	1A	34	C
1	1A	45	C
1	1A	55	G
1	1A	63	U
1	1A	71	A
1	1A	72	U
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	95	G
1	1A	118	A
1	1A	119	A
1	1A	120	U
1	1A	125	G
1	1A	154	G
1	1A	154(A)	C
1	1A	181	A
1	1A	182	A
1	1A	188	G
1	1A	196	A
1	1A	197	A
1	1A	205	G
1	1A	214	G
1	1A	215	G
1	1A	216	A
1	1A	222	A
1	1A	228	A

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Mol	Chain	Res	Type
1	1A	229	A
1	1A	233	A
1	1A	248	G
1	1A	269	U
1	1A	271(K)	U
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(N)	U
1	1A	271(P)	C
1	1A	271(S)	G
1	1A	271(X)	G
1	1A	272(B)	G
1	1A	272(I)	U
1	1A	275	G
1	1A	279	C
1	1A	283	A
1	1A	311	A
1	1A	329	G
1	1A	330	A
1	1A	342	G
1	1A	352	G
1	1A	363	G
1	1A	363(B)	G
1	1A	370	G
1	1A	372	G
1	1A	380	U
1	1A	386	G
1	1A	389	G
1	1A	396	G
1	1A	404	C
1	1A	405	U
1	1A	411	G
1	1A	418	G
1	1A	428	A
1	1A	444	C
1	1A	448	U
1	1A	451	C
1	1A	456	C
1	1A	467	G
1	1A	481	G
1	1A	504	U
1	1A	505	A

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Mol	Chain	Res	Type
1	1A	508	G
1	1A	509	C
1	1A	530	G
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	563	G
1	1A	568	U
1	1A	573	G
1	1A	575	A
1	1A	586	A
1	1A	603	A
1	1A	604	G
1	1A	607	U
1	1A	614(B)	G
1	1A	615	G
1	1A	627	A
1	1A	637	A
1	1A	645	C
1	1A	646	A
1	1A	652(E)	G
1	1A	652(T)	C
1	1A	668	G
1	1A	669	G
1	1A	686	G
1	1A	717	G
1	1A	730	C
1	1A	746	A
1	1A	747	U
1	1A	764	A
1	1A	765	G
1	1A	775	G
1	1A	776	G
1	1A	782	A
1	1A	784	A
1	1A	785	G
1	1A	790	C
1	1A	792	G
1	1A	805	G
1	1A	812	C

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Mol	Chain	Res	Type
1	1A	819	A
1	1A	827	U
1	1A	828	U
1	1A	857	C
1	1A	859	G
1	1A	866	A
1	1A	879	G
1	1A	880	G
1	1A	882	G
1	1A	883	G
1	1A	884	C
1	1A	885	C
1	1A	886	C
1	1A	887	A
1	1A	888	C
1	1A	889	C
1	1A	890	A
1	1A	892	G
1	1A	893	C
1	1A	894	C
1	1A	895	U
1	1A	896	A
1	1A	897	C
1	1A	899	A
1	1A	900	A
1	1A	910	A
1	1A	914	C
1	1A	932	G
1	1A	945	A
1	1A	946	G
1	1A	953	A
1	1A	961	C
1	1A	974	G
1	1A	975	C
1	1A	983	A
1	1A	989	G
1	1A	996	A
1	1A	1012	U
1	1A	1013	C
1	1A	1017	G
1	1A	1018	C
1	1A	1022	G

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Mol	Chain	Res	Type
1	1A	1026	U
1	1A	1027	A
1	1A	1033	U
1	1A	1041	C
1	1A	1044	G
1	1A	1045	A
1	1A	1046	A
1	1A	1047	G
1	1A	1048	A
1	1A	1054	A
1	1A	1055	G
1	1A	1058	G
1	1A	1063	G
1	1A	1068	G
1	1A	1070	A
1	1A	1071	G
1	1A	1072	C
1	1A	1073	A
1	1A	1075	C
1	1A	1076	C
1	1A	1078	U
1	1A	1079	C
1	1A	1088	A
1	1A	1089	G
1	1A	1090	U
1	1A	1091	G
1	1A	1093	G
1	1A	1094	U
1	1A	1096	A
1	1A	1098	A
1	1A	1099	G
1	1A	1101	U
1	1A	1102	C
1	1A	1103	A
1	1A	1108	U
1	1A	1110	G
1	1A	1111	A
1	1A	1112	G
1	1A	1115	G
1	1A	1116	C
1	1A	1117	G
1	1A	1130	U

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Mol	Chain	Res	Type
1	1A	1135	C
1	1A	1136	G
1	1A	1142	U
1	1A	1171	G
1	1A	1173	G
1	1A	1174	A
1	1A	1175	U
1	1A	1176	G
1	1A	1177	A
1	1A	1178	C
1	1A	1211	U
1	1A	1220	A
1	1A	1229	G
1	1A	1236	G
1	1A	1244	G
1	1A	1253	A
1	1A	1256	G
1	1A	1271	G
1	1A	1272	A
1	1A	1273	U
1	1A	1281	G
1	1A	1300	U
1	1A	1301	A
1	1A	1303	G
1	1A	1306	C
1	1A	1352	U
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1372	U
1	1A	1380	G
1	1A	1384	A
1	1A	1385	G
1	1A	1395	A
1	1A	1396	U
1	1A	1416	G
1	1A	1417	C
1	1A	1420	U
1	1A	1421	G
1	1A	1427	A
1	1A	1428	C
1	1A	1445	A

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Mol	Chain	Res	Type
1	1A	1450	G
1	1A	1455	G
1	1A	1467	C
1	1A	1473	G
1	1A	1482	G
1	1A	1493	C
1	1A	1494	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1540	U
1	1A	1554	A
1	1A	1558	A
1	1A	1566	A
1	1A	1569	A
1	1A	1578	U
1	1A	1580	A
1	1A	1581	G
1	1A	1584	C
1	1A	1586	A
1	1A	1608	A
1	1A	1610	A
1	1A	1647	G
1	1A	1648	C
1	1A	1654	A
1	1A	1664	A
1	1A	1674	G
1	1A	1696	G
1	1A	1700	A
1	1A	1701	A
1	1A	1703	G
1	1A	1719	G
1	1A	1722	A
1	1A	1739	U
1	1A	1740	G
1	1A	1746	G
1	1A	1756	G
1	1A	1763	G
1	1A	1764	G
1	1A	1773	A
1	1A	1780	A
1	1A	1782	C
1	1A	1791	A

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Mol	Chain	Res	Type
1	1A	1800	C
1	1A	1801	G
1	1A	1812	A
1	1A	1816	G
1	1A	1817	G
1	1A	1828	G
1	1A	1829	A
1	1A	1847	A
1	1A	1852	C
1	1A	1861	G
1	1A	1877	A
1	1A	1900	A
1	1A	1906	G
1	1A	1929	G
1	1A	1930	G
1	1A	1937	A
1	1A	1938	A
1	1A	1955	U
1	1A	1963	U
1	1A	1967	C
1	1A	1970	A
1	1A	1971	A
1	1A	1972	A
1	1A	1984	G
1	1A	1992	G
1	1A	1993	U
1	1A	1997	G
1	1A	2020	A
1	1A	2023	G
1	1A	2031	A
1	1A	2032	G
1	1A	2033	A
1	1A	2043	C
1	1A	2055	C
1	1A	2056	G
1	1A	2060	A
1	1A	2061	G
1	1A	2069	G
1	1A	2098	U
1	1A	2102	U
1	1A	2104	G
1	1A	2105	C

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Mol	Chain	Res	Type
1	1A	2108	C
1	1A	2110	G
1	1A	2113	U
1	1A	2116	G
1	1A	2118	U
1	1A	2120	G
1	1A	2121	G
1	1A	2122	U
1	1A	2126	A
1	1A	2127	G
1	1A	2129	C
1	1A	2130	U
1	1A	2131	G
1	1A	2132	U
1	1A	2133	G
1	1A	2134	A
1	1A	2135	A
1	1A	2136	C
1	1A	2140	C
1	1A	2142	C
1	1A	2143	C
1	1A	2144	U
1	1A	2146	C
1	1A	2147	G
1	1A	2150	U
1	1A	2151	G
1	1A	2155	G
1	1A	2156	G
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2161	C
1	1A	2163	C
1	1A	2165	G
1	1A	2166	G
1	1A	2168	G
1	1A	2171	A
1	1A	2172	U
1	1A	2173	A
1	1A	2174	C
1	1A	2181	G
1	1A	2182	G

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Mol	Chain	Res	Type
1	1A	2184	G
1	1A	2189	U
1	1A	2192	G
1	1A	2198	A
1	1A	2206	G
1	1A	2207	G
1	1A	2208	A
1	1A	2218	U
1	1A	2219	G
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2268	A
1	1A	2269	A
1	1A	2279	G
1	1A	2280	G
1	1A	2283	C
1	1A	2287	A
1	1A	2305	A
1	1A	2308	G
1	1A	2313	C
1	1A	2320	A
1	1A	2325	G
1	1A	2334	G
1	1A	2336	A
1	1A	2347	C
1	1A	2350	C
1	1A	2358	G
1	1A	2361	A
1	1A	2383	G
1	1A	2385	C
1	1A	2396	G
1	1A	2400	G
1	1A	2406	U
1	1A	2407	G
1	1A	2424	C
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2431	U
1	1A	2435	A
1	1A	2439	A

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Mol	Chain	Res	Type
1	1A	2441	C
1	1A	2448	A
1	1A	2449	U
1	1A	2468	G
1	1A	2469	A
1	1A	2474	C
1	1A	2476	A
1	1A	2478	A
1	1A	2491	U
1	1A	2502	G
1	1A	2505	G
1	1A	2506	U
1	1A	2518	A
1	1A	2529	G
1	1A	2535	G
1	1A	2549	G
1	1A	2554	U
1	1A	2566	A
1	1A	2567	G
1	1A	2573	C
1	1A	2574	G
1	1A	2578	G
1	1A	2602	A
1	1A	2609	U
1	1A	2611	U
1	1A	2612	C
1	1A	2629	A
1	1A	2630	G
1	1A	2634	G
1	1A	2654	A
1	1A	2663	G
1	1A	2689	U
1	1A	2690	C
1	1A	2691	C
1	1A	2702	U
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A
1	1A	2726	U
1	1A	2733	A
1	1A	2744	G
1	1A	2757	A

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Mol	Chain	Res	Type
1	1A	2758	A
1	1A	2761	G
1	1A	2765	A
1	1A	2766	G
1	1A	2769	C
1	1A	2778	A
1	1A	2790	A
1	1A	2791	C
1	1A	2792	G
1	1A	2793	G
1	1A	2794	C
1	1A	2802	G
1	1A	2803	C
1	1A	2807	G
1	1A	2820	A
1	1A	2821	A
1	1A	2825	C
1	1A	2834	G
1	1A	2835	A
1	1A	2872	G
1	1A	2876	G
1	1A	2880	C
1	1A	2891	G
1	1A	2892	A
1	1A	2894	G
1	1A	2895	U
2	1B	2	C
2	1B	13	A
2	1B	15	A
2	1B	35	U
2	1B	45	A
2	1B	56	G
2	1B	73	A
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	22	G
32	1a	32	A
32	1a	39	G
32	1a	48	C
32	1a	50	A
32	1a	51	A

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Mol	Chain	Res	Type
32	1a	52	G
32	1a	61	G
32	1a	69	G
32	1a	77	G
32	1a	79	G
32	1a	91	C
32	1a	93	G
32	1a	98	G
32	1a	101	A
32	1a	105	G
32	1a	116	A
32	1a	120	A
32	1a	121	C
32	1a	129(A)	G
32	1a	131	C
32	1a	144	G
32	1a	145	G
32	1a	151	A
32	1a	162	A
32	1a	163	C
32	1a	164	U
32	1a	168	G
32	1a	174	C
32	1a	182	U
32	1a	189(F)	U
32	1a	189(J)	G
32	1a	195	A
32	1a	197	A
32	1a	203	U
32	1a	204	U
32	1a	216	G
32	1a	220	G
32	1a	221	C
32	1a	247	G
32	1a	251	G
32	1a	258	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	321	A
32	1a	328	C
32	1a	329	A

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Mol	Chain	Res	Type
32	1a	332	G
32	1a	342	C
32	1a	344	A
32	1a	345	C
32	1a	348	G
32	1a	351	G
32	1a	352	C
32	1a	353	A
32	1a	354	G
32	1a	367	U
32	1a	372	C
32	1a	373	A
32	1a	384	G
32	1a	388	G
32	1a	392	G
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	413	G
32	1a	422	C
32	1a	423	G
32	1a	429	U
32	1a	439	A
32	1a	442	C
32	1a	451	A
32	1a	452	A
32	1a	457	C
32	1a	461	A
32	1a	470	C
32	1a	474	G
32	1a	485	G
32	1a	496	A
32	1a	498	U
32	1a	505	G
32	1a	508	C
32	1a	509	A
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	521	G
32	1a	524	G

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Mol	Chain	Res	Type
32	1a	527	7MG
32	1a	531	U
32	1a	532	A
32	1a	547	A
32	1a	559	A
32	1a	560	U
32	1a	561	U
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	574	A
32	1a	576	G
32	1a	577	G
32	1a	596	C
32	1a	607	A
32	1a	608	A
32	1a	616	G
32	1a	630	G
32	1a	653	A
32	1a	665	A
32	1a	684	A
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	709	G
32	1a	722	A
32	1a	723	U
32	1a	731	G
32	1a	748	C
32	1a	749	C
32	1a	752	G
32	1a	753	A
32	1a	755	G
32	1a	766	A
32	1a	787	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	806	C
32	1a	815	A
32	1a	816	A
32	1a	817	C

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Mol	Chain	Res	Type
32	1a	821	G
32	1a	827	U
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	852	G
32	1a	872	A
32	1a	874	G
32	1a	902	G
32	1a	913	A
32	1a	914	A
32	1a	916	G
32	1a	926	G
32	1a	927	G
32	1a	934	C
32	1a	960	U
32	1a	961	U
32	1a	964	A
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	991	U
32	1a	992	U
32	1a	993	G
32	1a	994	A
32	1a	997	U
32	1a	1000	U
32	1a	1001(A)	G
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1009	G
32	1a	1011	G
32	1a	1020	U
32	1a	1021	G
32	1a	1022	G
32	1a	1023	G

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Mol	Chain	Res	Type
32	1a	1024	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C
32	1a	1028	C
32	1a	1029	C
32	1a	1030	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1033	G
32	1a	1037	C
32	1a	1039	C
32	1a	1040	U
32	1a	1054	C
32	1a	1066	C
32	1a	1068	G
32	1a	1094	G
32	1a	1095	U
32	1a	1101	A
32	1a	1108	G
32	1a	1123	A
32	1a	1125	U
32	1a	1134	G
32	1a	1135	U
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1140	C
32	1a	1146	A
32	1a	1152	A
32	1a	1154	G
32	1a	1159	U
32	1a	1160	G
32	1a	1184	G
32	1a	1193	G
32	1a	1196	U
32	1a	1197	G
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1214	C

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Mol	Chain	Res	Type
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1253	G
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1269	A
32	1a	1270	C
32	1a	1275	A
32	1a	1278	U
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U
32	1a	1320	C
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1364	U
32	1a	1370	G
32	1a	1397	C
32	1a	1419	G
32	1a	1435	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1442(B)	A
32	1a	1446	U
32	1a	1447	A
32	1a	1456	G
32	1a	1475	G
32	1a	1487	G
32	1a	1492	A
32	1a	1494	G
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U
32	1a	1517	G

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Mol	Chain	Res	Type
32	1a	1519	MA6
32	1a	1520	G
32	1a	1529	G
32	1a	1530	G
32	1a	1532	U
53	1v	13	A
54	1w	2	C
54	1w	3	C
54	1w	6	G
54	1w	8	4SU
54	1w	14	A
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	23	A
54	1w	24	G
54	1w	45	U
54	1w	46	7MG
54	1w	47	U
54	1w	48	C
54	1w	50	U
54	1w	62	C
54	1w	66	U
54	1w	67	C
54	1w	68	C
54	1w	69	G
54	1w	71	G
54	1w	73	A
54	1w	74	C
55	1x	7	G
55	1x	9	G
55	1x	14	A
55	1x	18	G
55	1x	19	G
55	1x	21	A
55	1x	47	U
55	1x	48	C
55	1x	61	C
55	1x	64	G
56	1y	5	G
56	1y	8	4SU
56	1y	12	U

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Mol	Chain	Res	Type
56	1y	13	C
56	1y	14	A
56	1y	19	G
56	1y	20	U
56	1y	21	A
56	1y	35	A
56	1y	36	A
56	1y	44	G
56	1y	45	U
56	1y	46	7MG
56	1y	47	U
56	1y	48	C
56	1y	49	C
56	1y	53	G
56	1y	54	5MU
56	1y	57	G
56	1y	59	U
56	1y	61	C
56	1y	65	G
56	1y	66	U
56	1y	67	C
56	1y	69	G
56	1y	72	C
1	2A	10	G
1	2A	12	U
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	71	A
1	2A	73	A
1	2A	74	A
1	2A	75	G
1	2A	79	G
1	2A	84	A
1	2A	90	U
1	2A	94	C
1	2A	95	G
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	119	A

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Mol	Chain	Res	Type
1	2A	120	U
1	2A	131	G
1	2A	154(A)	C
1	2A	157	U
1	2A	173	G
1	2A	181	A
1	2A	196	A
1	2A	199	A
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	222	A
1	2A	228	A
1	2A	229	A
1	2A	230	U
1	2A	232	G
1	2A	233	A
1	2A	245	G
1	2A	248	G
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	272(B)	G
1	2A	277	C
1	2A	278	A
1	2A	311	A
1	2A	329	G
1	2A	330	A
1	2A	342	G
1	2A	346	A
1	2A	348	G
1	2A	352	G
1	2A	354	G
1	2A	360	G
1	2A	363	G
1	2A	363(B)	G
1	2A	363(D)	G
1	2A	386	G
1	2A	389	G
1	2A	396	G

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Mol	Chain	Res	Type
1	2A	403	U
1	2A	411	G
1	2A	421	U
1	2A	422	A
1	2A	444	C
1	2A	454	A
1	2A	455	C
1	2A	457	A
1	2A	479	A
1	2A	481	G
1	2A	488	G
1	2A	504	U
1	2A	505	A
1	2A	508	G
1	2A	509	C
1	2A	529	A
1	2A	530	G
1	2A	531	C
1	2A	532	A
1	2A	551	G
1	2A	563	G
1	2A	568	U
1	2A	573	G
1	2A	574	C
1	2A	575	A
1	2A	586	A
1	2A	588	U
1	2A	592	G
1	2A	595	C
1	2A	599	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(B)	G
1	2A	614(C)	A
1	2A	615	G
1	2A	616	G
1	2A	627	A
1	2A	637	A
1	2A	645	C
1	2A	652(B)	A
1	2A	652(C)	G

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Mol	Chain	Res	Type
1	2A	668	G
1	2A	669	G
1	2A	686	G
1	2A	701	G
1	2A	717	G
1	2A	726	G
1	2A	730	C
1	2A	740	U
1	2A	751	A
1	2A	752	A
1	2A	753	C
1	2A	764	A
1	2A	774	A
1	2A	775	G
1	2A	776	G
1	2A	782	A
1	2A	784	A
1	2A	785	G
1	2A	792	G
1	2A	805	G
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	832	G
1	2A	854	G
1	2A	857	C
1	2A	859	G
1	2A	866	A
1	2A	874	G
1	2A	875	G
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	884	C
1	2A	886	C
1	2A	887	A
1	2A	888	C
1	2A	889	C
1	2A	892	G
1	2A	893	C
1	2A	894	C

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Mol	Chain	Res	Type
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	904	C
1	2A	907	U
1	2A	910	A
1	2A	914	C
1	2A	917	A
1	2A	928	G
1	2A	932	G
1	2A	941	A
1	2A	945	A
1	2A	946	G
1	2A	953	A
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	983	A
1	2A	996	A
1	2A	1005	C
1	2A	1008	C
1	2A	1012	U
1	2A	1013	C
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U
1	2A	1027	A
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1040	C
1	2A	1041	C
1	2A	1043	C
1	2A	1114	G
1	2A	1116	C
1	2A	1117	G
1	2A	1126	A
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G

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Mol	Chain	Res	Type
1	2A	1144	G
1	2A	1151	G
1	2A	1171	G
1	2A	1195	G
1	2A	1205	U
1	2A	1210	A
1	2A	1211	U
1	2A	1212	G
1	2A	1220	A
1	2A	1230	C
1	2A	1236	G
1	2A	1244	G
1	2A	1248	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1273	U
1	2A	1300	U
1	2A	1301	A
1	2A	1303	G
1	2A	1314	C
1	2A	1342	A
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1368	G
1	2A	1370	C
1	2A	1380	G
1	2A	1384	A
1	2A	1385	G
1	2A	1395	A
1	2A	1416	G
1	2A	1420	U
1	2A	1421	G
1	2A	1427	A
1	2A	1428	C
1	2A	1437	C
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G

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Mol	Chain	Res	Type
1	2A	1455	G
1	2A	1460	A
1	2A	1461	G
1	2A	1463	C
1	2A	1467	C
1	2A	1471	A
1	2A	1478	G
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1496	A
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1531	C
1	2A	1532	C
1	2A	1543	C
1	2A	1544	A
1	2A	1547	C
1	2A	1558	A
1	2A	1559	G
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1580	A
1	2A	1583	A
1	2A	1584	C
1	2A	1586	A
1	2A	1608	A
1	2A	1609	A
1	2A	1610	A
1	2A	1620	G
1	2A	1633	G
1	2A	1639	U
1	2A	1648	C
1	2A	1654	A
1	2A	1667	G
1	2A	1674	G
1	2A	1696	G
1	2A	1700	A
1	2A	1701	A

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Mol	Chain	Res	Type
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1739	U
1	2A	1740	G
1	2A	1746	G
1	2A	1747	G
1	2A	1747(A)	G
1	2A	1756	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1782	C
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1811	G
1	2A	1812	A
1	2A	1816	G
1	2A	1817	G
1	2A	1829	A
1	2A	1835	G
1	2A	1847	A
1	2A	1848	A
1	2A	1857	G
1	2A	1858	G
1	2A	1877	A
1	2A	1878	G
1	2A	1900	A
1	2A	1906	G
1	2A	1913	A
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1967	C
1	2A	1970	A

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Mol	Chain	Res	Type
1	2A	1971	A
1	2A	1972	A
1	2A	1983	C
1	2A	1984	G
1	2A	1991	U
1	2A	1992	G
1	2A	1993	U
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2033	A
1	2A	2043	C
1	2A	2055	C
1	2A	2056	G
1	2A	2060	A
1	2A	2061	G
1	2A	2069	G
1	2A	2074	U
1	2A	2093	G
1	2A	2096	U
1	2A	2097	C
1	2A	2099	U
1	2A	2108	C
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2114	A
1	2A	2115	G
1	2A	2116	G
1	2A	2117	A
1	2A	2119	A
1	2A	2120	G
1	2A	2122	U
1	2A	2124	G
1	2A	2125	G
1	2A	2126	A
1	2A	2127	G
1	2A	2130	U
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G

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Mol	Chain	Res	Type
1	2A	2134	A
1	2A	2135	A
1	2A	2136	C
1	2A	2137	C
1	2A	2138	C
1	2A	2140	C
1	2A	2141	G
1	2A	2146	C
1	2A	2148	G
1	2A	2150	U
1	2A	2151	G
1	2A	2153	G
1	2A	2157	G
1	2A	2161	C
1	2A	2165	G
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2169	A
1	2A	2172	U
1	2A	2174	C
1	2A	2176	A
1	2A	2178	C
1	2A	2185	C
1	2A	2186	G
1	2A	2188	C
1	2A	2189	U
1	2A	2190	G
1	2A	2192	G
1	2A	2198	A
1	2A	2206	G
1	2A	2207	G
1	2A	2208	A
1	2A	2218	U
1	2A	2225	A
1	2A	2238	G
1	2A	2239	G
1	2A	2267	A
1	2A	2275	C
1	2A	2278	A
1	2A	2283	C
1	2A	2287	A

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Mol	Chain	Res	Type
1	2A	2298	A
1	2A	2305	A
1	2A	2308	G
1	2A	2319	G
1	2A	2320	A
1	2A	2325	G
1	2A	2327	A
1	2A	2334	G
1	2A	2335	A
1	2A	2336	A
1	2A	2346	A
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2376	A
1	2A	2383	G
1	2A	2385	C
1	2A	2403	C
1	2A	2406	U
1	2A	2414	G
1	2A	2425	A
1	2A	2429	G
1	2A	2430	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2447	G
1	2A	2448	A
1	2A	2459	A
1	2A	2460	U
1	2A	2469	A
1	2A	2476	A
1	2A	2477	C
1	2A	2478	A
1	2A	2484	G
1	2A	2487	G
1	2A	2491	U
1	2A	2494	G
1	2A	2502	G
1	2A	2505	G
1	2A	2506	U
1	2A	2518	A

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Mol	Chain	Res	Type
1	2A	2520	C
1	2A	2529	G
1	2A	2530	A
1	2A	2532	G
1	2A	2554	U
1	2A	2555	U
1	2A	2566	A
1	2A	2567	G
1	2A	2569	G
1	2A	2573	C
1	2A	2578	G
1	2A	2582	G
1	2A	2585	U
1	2A	2602	A
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2634	G
1	2A	2651	C
1	2A	2654	A
1	2A	2658	C
1	2A	2673	G
1	2A	2689	U
1	2A	2690	C
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2726	U
1	2A	2731	G
1	2A	2733	A
1	2A	2748	A
1	2A	2751	G
1	2A	2754	U
1	2A	2757	A
1	2A	2759	G
1	2A	2761	G
1	2A	2764	A
1	2A	2765	A
1	2A	2778	A

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Mol	Chain	Res	Type
1	2A	2789	C
1	2A	2793	G
1	2A	2794	C
1	2A	2803	C
1	2A	2805	G
1	2A	2807	G
1	2A	2808	U
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A
1	2A	2833	G
1	2A	2835	A
1	2A	2836	U
1	2A	2839	G
1	2A	2872	G
1	2A	2880	C
1	2A	2894	G
1	2A	2895	U
1	2A	2896	C
1	2A	2897	U
2	2B	2	C
2	2B	8	U
2	2B	13	A
2	2B	32	C
2	2B	40	U
2	2B	41	U
2	2B	42	C
2	2B	45	A
2	2B	52	A
2	2B	53	A
2	2B	56	G
2	2B	59	A
2	2B	67	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	85	G
2	2B	88	C
2	2B	91	C
2	2B	94	C
2	2B	97	G
2	2B	106	G

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Mol	Chain	Res	Type
2	2B	108	U
2	2B	109	C
2	2B	110	G
2	2B	113	G
2	2B	119	G
2	2B	120	A
32	2a	9	G
32	2a	22	G
32	2a	32	A
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	50	A
32	2a	51	A
32	2a	66	G
32	2a	73	G
32	2a	78	G
32	2a	89	C
32	2a	98	G
32	2a	101	A
32	2a	116	A
32	2a	121	C
32	2a	131	C
32	2a	143	A
32	2a	144	G
32	2a	159	G
32	2a	163	C
32	2a	174	C
32	2a	182	U
32	2a	188	C
32	2a	189(C)	C
32	2a	189(E)	U
32	2a	195	A
32	2a	197	A
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	227	G
32	2a	238	G
32	2a	244	U

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Mol	Chain	Res	Type
32	2a	247	G
32	2a	251	G
32	2a	266	G
32	2a	267	C
32	2a	269	C
32	2a	279	A
32	2a	289	G
32	2a	306	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	345	C
32	2a	350	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	367	U
32	2a	372	C
32	2a	397	A
32	2a	398	C
32	2a	406	G
32	2a	412	A
32	2a	413	G
32	2a	421	U
32	2a	423	G
32	2a	424	G
32	2a	429	U
32	2a	430	A
32	2a	439	A
32	2a	442	C
32	2a	447	G
32	2a	452	A
32	2a	461	A
32	2a	470	C
32	2a	471	G
32	2a	476	G
32	2a	484	G
32	2a	485	G
32	2a	496	A
32	2a	498	U
32	2a	505	G
32	2a	509	A

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Mol	Chain	Res	Type
32	2a	510	A
32	2a	511	C
32	2a	518	C
32	2a	521	G
32	2a	527	7MG
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	536	C
32	2a	547	A
32	2a	559	A
32	2a	560	U
32	2a	561	U
32	2a	562	C
32	2a	564	C
32	2a	572	A
32	2a	573	A
32	2a	575	G
32	2a	576	G
32	2a	577	G
32	2a	596	C
32	2a	630	G
32	2a	651	C
32	2a	653	A
32	2a	665	A
32	2a	666	G
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	701	C
32	2a	703	G
32	2a	712	A
32	2a	723	U
32	2a	731	G
32	2a	733	A
32	2a	749	C
32	2a	755	G
32	2a	759	A
32	2a	787	A
32	2a	793	U
32	2a	794	A
32	2a	815	A

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Mol	Chain	Res	Type
32	2a	816	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	836	G
32	2a	839	U
32	2a	840	C
32	2a	841	U
32	2a	851	G
32	2a	853	G
32	2a	859	A
32	2a	874	G
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	934	C
32	2a	935	A
32	2a	958	A
32	2a	960	U
32	2a	961	U
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	972	C
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	982	U
32	2a	989	C
32	2a	992	U
32	2a	993	G
32	2a	995	C
32	2a	997	U
32	2a	998	G
32	2a	999	C
32	2a	1001	A
32	2a	1001(A)	G
32	2a	1002	G
32	2a	1003	G
32	2a	1004	A

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Mol	Chain	Res	Type
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1016	A
32	2a	1020	U
32	2a	1021	G
32	2a	1022	G
32	2a	1023	G
32	2a	1024	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1028	C
32	2a	1030	C
32	2a	1030(A)	G
32	2a	1030(C)	G
32	2a	1031	G
32	2a	1035	A
32	2a	1036	G
32	2a	1037	C
32	2a	1038	C
32	2a	1039	C
32	2a	1040	U
32	2a	1045	C
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1081	G
32	2a	1086	U
32	2a	1089	G
32	2a	1091	U
32	2a	1092	A
32	2a	1093	A
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1117	G
32	2a	1122	U
32	2a	1124	G
32	2a	1125	U

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Mol	Chain	Res	Type
32	2a	1126	U
32	2a	1129	C
32	2a	1130	A
32	2a	1133	G
32	2a	1136	U
32	2a	1137	C
32	2a	1138	G
32	2a	1139	G
32	2a	1140	C
32	2a	1146	A
32	2a	1147	C
32	2a	1152	A
32	2a	1157	A
32	2a	1158	C
32	2a	1159	U
32	2a	1172	C
32	2a	1182	G
32	2a	1184	G
32	2a	1186	G
32	2a	1191	A
32	2a	1193	G
32	2a	1196	U
32	2a	1197	G
32	2a	1201	A
32	2a	1202	G
32	2a	1211	U
32	2a	1212	U
32	2a	1213	A
32	2a	1214	C
32	2a	1218	C
32	2a	1220	G
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1241	G
32	2a	1246	C
32	2a	1248	A
32	2a	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1261	A
32	2a	1262	C

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Mol	Chain	Res	Type
32	2a	1270	C
32	2a	1272	G
32	2a	1273	G
32	2a	1277	C
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1285	A
32	2a	1287	A
32	2a	1299	A
32	2a	1303	C
32	2a	1305	G
32	2a	1306	A
32	2a	1312	G
32	2a	1321	C
32	2a	1323	G
32	2a	1338	G
32	2a	1346	A
32	2a	1347	G
32	2a	1353	G
32	2a	1357	A
32	2a	1363	C
32	2a	1363(A)	A
32	2a	1364	U
32	2a	1370	G
32	2a	1381	U
32	2a	1394	A
32	2a	1404	5MC
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1446	U
32	2a	1447	A
32	2a	1492	A
32	2a	1494	G
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1517	G
32	2a	1520	G
32	2a	1529	G
32	2a	1530	G

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Mol	Chain	Res	Type
32	2a	1531	A
32	2a	1532	U
53	2v	15	A
54	2w	3	C
54	2w	4	C
54	2w	6	G
54	2w	7	A
54	2w	8	4SU
54	2w	9	A
54	2w	11	C
54	2w	12	U
54	2w	13	C
54	2w	14	A
54	2w	19	G
54	2w	26	A
54	2w	46	7MG
54	2w	48	C
54	2w	54	5MU
54	2w	62	C
54	2w	63	G
54	2w	65	G
54	2w	66	U
54	2w	67	C
54	2w	68	C
54	2w	69	G
54	2w	70	G
54	2w	73	A
54	2w	74	C
55	2x	9	G
55	2x	18	G
55	2x	19	G
55	2x	21	A
55	2x	47	U
55	2x	56	C
55	2x	59	A
56	2y	15	G
56	2y	19	G
56	2y	27	G
56	2y	34	G
56	2y	36	A
56	2y	37	MIA
56	2y	40	C

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Mol	Chain	Res	Type
56	2y	41	C
56	2y	43	C
56	2y	45	U
56	2y	46	7MG
56	2y	49	C
56	2y	50	U
56	2y	52	G
56	2y	53	G
56	2y	55	PSU
56	2y	57	G
56	2y	58	A
56	2y	59	U
56	2y	61	C
56	2y	62	C
56	2y	63	G
56	2y	65	G
56	2y	69	G
56	2y	70	G
56	2y	73	A

All (59) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	90	U
1	1A	195	A
1	1A	196	A
1	1A	266	G
1	1A	271(K)	U
1	1A	278	A
1	1A	548	A
1	1A	746	A
1	1A	764	A
1	1A	974	G
1	1A	1047	G
1	1A	1065	U
1	1A	1067	A
1	1A	1078	U
1	1A	1142(A)	A
1	1A	1174	A
1	1A	1176	G
1	1A	1210	A
1	1A	1301	A

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Mol	Chain	Res	Type
1	1A	1379	A
1	1A	1442	G
1	1A	1508	A
1	1A	1608	A
1	1A	1653	G
1	1A	1992	G
1	1A	2134	A
1	1A	2181	G
1	1A	2183	C
1	1A	2406	U
1	1A	2430	A
1	1A	2439	A
1	1A	2629	A
1	1A	2689	U
1	1A	2756	U
1	2A	228	A
1	2A	266	G
1	2A	271(K)	U
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	752	A
1	2A	827	U
1	2A	856	C
1	2A	900	A
1	2A	1026	U
1	2A	1142(A)	A
1	2A	1210	A
1	2A	1379	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1608	A
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G
1	2A	2119	A
1	2A	2126	A
1	2A	2689	U
1	2A	2756	U

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

90 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	$\#\|Z\| > 2$
32	4OC	2a	1402	32	20,23,24	0.76	0	25,32,35	1.08	3 (12%)
32	7MG	2a	527	32,57	23,26,27	1.28	3 (13%)	27,39,42	2.62	7 (25%)
55	5MC	2x	32	55	19,22,23	1.69	3 (15%)	26,32,35	1.27	4 (15%)
1	OMG	1A	2251	55,57,1	23,26,27	1.31	3 (13%)	32,38,41	1.92	7 (21%)
54	PSU	1w	55	54	18,21,22	1.35	2 (11%)	21,30,33	2.10	3 (14%)
56	PSU	2y	39	56	18,21,22	1.34	2 (11%)	21,30,33	1.99	4 (19%)
43	0TD	1l	92	43	8,9,10	4.55	1 (12%)	6,11,13	9.51	3 (50%)
55	PSU	1x	55	55	18,21,22	1.38	2 (11%)	21,30,33	1.96	3 (14%)
32	5MC	2a	1404	32	19,22,23	1.60	3 (15%)	26,32,35	1.17	3 (11%)
56	5MU	1y	54	56	19,22,23	1.49	5 (26%)	27,32,35	1.84	5 (18%)
54	5MU	2w	54	54	19,22,23	1.36	3 (15%)	27,32,35	1.94	6 (22%)
55	5MU	1x	54	55	19,22,23	1.36	4 (21%)	27,32,35	1.96	6 (22%)
54	7MG	1w	46	54	23,26,27	1.43	4 (17%)	27,39,42	2.53	7 (25%)
56	4SU	1y	8	56	18,21,22	1.76	5 (27%)	25,30,33	1.90	5 (20%)
1	2MA	1A	2503	57,1	22,25,26	1.44	4 (18%)	32,37,40	2.32	9 (28%)
56	4SU	2y	8	56	18,21,22	1.87	5 (27%)	25,30,33	1.99	5 (20%)
32	5MC	1a	1400	32	19,22,23	1.72	3 (15%)	26,32,35	1.12	3 (11%)
54	7MG	2w	46	54	23,26,27	1.33	3 (13%)	27,39,42	2.60	7 (25%)
32	MA6	1a	1519	32	23,26,27	0.47	0	33,38,41	2.12	9 (27%)
32	5MC	1a	1407	32	19,22,23	1.62	2 (10%)	26,32,35	1.20	3 (11%)
32	MA6	1a	1518	32	23,26,27	0.42	0	33,38,41	1.93	8 (24%)
32	7MG	1a	527	32	23,26,27	1.38	3 (13%)	27,39,42	2.55	7 (25%)
56	MIA	1y	37	56	21,24,32	1.59	4 (19%)	30,35,47	2.07	7 (23%)
43	0TD	2l	92	43	8,9,10	4.51	1 (12%)	6,11,13	8.69	3 (50%)
32	2MG	1a	1207	32	23,26,27	1.24	3 (13%)	33,38,41	2.21	9 (27%)
1	2MA	2A	2503	57,1	22,25,26	1.51	5 (22%)	32,37,40	2.32	8 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
55	31H	2x	76	57,55	31,34,35	1.18	3 (9%)	35,47,50	2.09	11 (31%)
1	PSU	2A	2605	1	18,21,22	1.46	3 (16%)	21,30,33	2.00	5 (23%)
56	PSU	2y	32	56	18,21,22	1.39	2 (11%)	21,30,33	1.90	4 (19%)
1	5MC	2A	1942	1	19,22,23	1.75	3 (15%)	26,32,35	1.19	3 (11%)
32	UR3	2a	1498	32	19,22,23	1.06	2 (10%)	26,32,35	1.81	3 (11%)
54	4SU	2w	8	54	18,21,22	1.68	4 (22%)	25,30,33	2.59	5 (20%)
54	PSU	2w	32	54	18,21,22	1.35	2 (11%)	21,30,33	1.82	3 (14%)
55	4SU	1x	8	55	18,21,22	2.15	4 (22%)	25,30,33	1.54	5 (20%)
1	PSU	2A	1917	1	18,21,22	1.38	2 (11%)	21,30,33	2.03	4 (19%)
56	5MU	2y	54	56	19,22,23	1.47	4 (21%)	27,32,35	2.12	5 (18%)
32	5MC	2a	1407	32	19,22,23	1.55	3 (15%)	26,32,35	1.12	3 (11%)
56	PSU	1y	32	56	18,21,22	1.34	2 (11%)	21,30,33	1.91	3 (14%)
54	4SU	1w	8	54	18,21,22	1.85	5 (27%)	25,30,33	1.89	5 (20%)
56	MIA	2y	37	56	21,24,32	1.67	3 (14%)	30,35,47	2.04	8 (26%)
32	MA6	2a	1518	32	23,26,27	0.43	0	33,38,41	2.06	10 (30%)
32	5MC	1a	1404	32	19,22,23	1.79	3 (15%)	26,32,35	1.08	2 (7%)
32	5MC	1a	967	32	19,22,23	1.58	3 (15%)	26,32,35	1.15	3 (11%)
54	F3N	2w	76	1,54	33,36,37	1.49	5 (15%)	41,51,54	1.75	10 (24%)
1	2MU	2A	2552	57,1	19,22,24	1.30	3 (15%)	25,31,36	1.93	6 (24%)
32	M2G	2a	966	32	24,27,28	1.32	4 (16%)	33,40,43	1.85	6 (18%)
54	PSU	2w	39	54	18,21,22	1.45	2 (11%)	21,30,33	1.68	4 (19%)
1	MA6	1A	2058	57,1	23,26,27	0.41	0	33,38,41	2.18	9 (27%)
56	7MG	1y	46	56	23,26,27	1.40	3 (13%)	27,39,42	2.69	6 (22%)
1	2MU	1A	2552	57,1	19,22,24	1.24	3 (15%)	25,31,36	1.91	7 (28%)
1	OMG	2A	2251	55,57,1	23,26,27	1.23	4 (17%)	32,38,41	1.87	6 (18%)
54	MIA	1w	37	54	28,31,32	2.44	7 (25%)	38,44,47	2.71	11 (28%)
32	5MC	2a	967	32,57	19,22,23	1.78	3 (15%)	26,32,35	1.19	4 (15%)
1	4OC	1A	1920	1	19,22,24	0.83	0	25,31,35	0.91	0
1	PSU	2A	1911	1	18,21,22	1.37	3 (16%)	21,30,33	2.17	4 (19%)
56	PSU	2y	55	56	18,21,22	1.40	2 (11%)	21,30,33	1.97	4 (19%)
1	PSU	1A	1911	1	18,21,22	1.43	2 (11%)	21,30,33	2.07	4 (19%)
54	PSU	2w	55	54	18,21,22	1.36	2 (11%)	21,30,33	1.94	4 (19%)
1	5MC	2A	1962	57,1	19,22,23	1.78	3 (15%)	26,32,35	1.07	2 (7%)
32	M2G	1a	966	32	24,27,28	1.33	4 (16%)	33,40,43	1.86	5 (15%)
56	PSU	1y	39	56	18,21,22	1.37	2 (11%)	21,30,33	1.91	4 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MA6	2A	2058	1	23,26,27	0.41	0	33,38,41	2.09	7 (21%)
54	PSU	1w	39	54	18,21,22	1.34	2 (11%)	21,30,33	2.02	4 (19%)
54	PSU	1w	32	57,54	18,21,22	1.29	2 (11%)	21,30,33	1.93	3 (14%)
32	2MG	2a	1207	32	23,26,27	1.23	3 (13%)	33,38,41	2.14	8 (24%)
55	5MC	1x	32	55	19,22,23	1.57	3 (15%)	26,32,35	1.32	3 (11%)
1	PSU	1A	1917	1	18,21,22	1.38	2 (11%)	21,30,33	2.02	3 (14%)
1	5MU	1A	1939	1	19,22,23	1.39	6 (31%)	27,32,35	2.29	6 (22%)
32	MA6	2a	1519	32	23,26,27	0.43	0	33,38,41	2.13	9 (27%)
1	5MU	2A	1939	57,1	19,22,23	1.33	4 (21%)	27,32,35	2.29	6 (22%)
55	5MU	2x	54	55	19,22,23	1.40	6 (31%)	27,32,35	2.14	6 (22%)
55	PSU	2x	55	55	18,21,22	1.37	2 (11%)	21,30,33	2.00	4 (19%)
32	PSU	1a	516	32	18,21,22	1.37	2 (11%)	21,30,33	2.04	5 (23%)
56	7MG	2y	46	56	23,26,27	1.39	3 (13%)	27,39,42	2.79	8 (29%)
1	5MC	1A	1942	1	19,22,23	1.67	3 (15%)	26,32,35	1.24	3 (11%)
1	5MU	2A	1915	1	19,22,23	1.41	5 (26%)	27,32,35	2.14	6 (22%)
1	4OC	2A	1920	1	19,22,24	0.80	0	25,31,35	0.89	1 (4%)
32	4OC	1a	1402	32	20,23,24	0.76	0	25,32,35	1.06	1 (4%)
54	F3N	1w	76	1,54	33,36,37	1.52	4 (12%)	41,51,54	1.81	9 (21%)
54	MIA	2w	37	54	24,27,32	2.04	5 (20%)	32,39,47	2.59	11 (34%)
1	PSU	1A	2605	57,1	18,21,22	1.44	3 (16%)	21,30,33	2.07	5 (23%)
55	4SU	2x	8	55	18,21,22	2.11	4 (22%)	25,30,33	1.56	6 (24%)
1	5MC	1A	1962	1	19,22,23	1.94	3 (15%)	26,32,35	1.19	3 (11%)
32	UR3	1a	1498	32	19,22,23	1.02	2 (10%)	26,32,35	1.78	3 (11%)
32	PSU	2a	516	32	18,21,22	1.36	2 (11%)	21,30,33	2.06	5 (23%)
32	5MC	2a	1400	32	19,22,23	1.68	3 (15%)	26,32,35	1.18	3 (11%)
54	5MU	1w	54	54	19,22,23	1.38	4 (21%)	27,32,35	1.99	5 (18%)
55	31H	1x	76	57,55	31,34,35	1.13	3 (9%)	35,47,50	2.38	13 (37%)
56	PSU	1y	55	56	18,21,22	1.39	2 (11%)	21,30,33	2.07	3 (14%)
1	5MU	1A	1915	1	19,22,23	1.37	5 (26%)	27,32,35	2.30	7 (25%)

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
32	4OC	2a	1402	32	-	1/9/29/30	0/2/2/2
32	7MG	2a	527	32,57	-	3/7/37/38	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	55,57,1	-	0/9/27/28	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
56	PSU	2y	39	56	-	0/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	3/7/12/14	-
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	2/7/25/26	0/2/2/2
56	5MU	1y	54	56	-	2/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	2/7/25/26	0/2/2/2
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
54	7MG	1w	46	54	-	2/7/37/38	0/3/3/3
56	4SU	1y	8	56	-	3/7/25/26	0/2/2/2
1	2MA	1A	2503	57,1	-	1/7/25/26	0/3/3/3
56	4SU	2y	8	56	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	0/7/25/26	0/2/2/2
54	7MG	2w	46	54	-	3/7/37/38	0/3/3/3
32	MA6	1a	1519	32	-	3/11/29/30	0/3/3/3
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	0/11/29/30	0/3/3/3
32	7MG	1a	527	32	-	3/7/37/38	0/3/3/3
56	MIA	1y	37	56	-	0/7/25/34	0/3/3/3
43	0TD	2l	92	43	-	2/7/12/14	-
32	2MG	1a	1207	32	-	0/9/27/28	0/3/3/3
1	2MA	2A	2503	57,1	-	0/7/25/26	0/3/3/3
55	31H	2x	76	57,55	-	3/22/40/41	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
56	PSU	2y	32	56	-	2/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	1/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	2/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	1/7/25/26	0/2/2/2
56	5MU	2y	54	56	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
56	PSU	1y	32	56	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
56	MIA	2y	37	56	-	3/7/25/34	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	2a	1518	32	-	0/11/29/30	0/3/3/3
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	1/7/25/26	0/2/2/2
54	F3N	2w	76	1,54	-	2/19/37/38	0/4/4/4
1	2MU	2A	2552	57,1	-	0/9/27/28	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
1	MA6	1A	2058	57,1	-	0/11/29/30	0/3/3/3
56	7MG	1y	46	56	-	1/7/37/38	0/3/3/3
1	2MU	1A	2552	57,1	-	0/9/27/28	0/2/2/2
1	OMG	2A	2251	55,57,1	-	1/9/27/28	0/3/3/3
54	MIA	1w	37	54	-	2/15/33/34	0/3/3/3
32	5MC	2a	967	32,57	-	1/7/25/26	0/2/2/2
1	4OC	1A	1920	1	-	0/9/27/30	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
56	PSU	2y	55	56	-	5/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	57,1	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3
56	PSU	1y	39	56	-	0/7/25/26	0/2/2/2
1	MA6	2A	2058	1	-	0/11/29/30	0/3/3/3
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
54	PSU	1w	32	57,54	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	0/9/27/28	0/3/3/3
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	3/11/29/30	0/3/3/3
1	5MU	2A	1939	57,1	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
56	7MG	2y	46	56	-	5/7/37/38	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2
32	4OC	1a	1402	32	-	0/9/29/30	0/2/2/2
54	F3N	1w	76	1,54	-	0/19/37/38	0/4/4/4
54	MIA	2w	37	54	-	1/11/29/34	0/3/3/3
1	PSU	1A	2605	57,1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	4SU	2x	8	55	-	0/7/25/26	0/2/2/2
1	5MC	1A	1962	1	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	4/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
55	31H	1x	76	57,55	-	5/22/40/41	0/3/3/3
56	PSU	1y	55	56	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2

All (256) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.37	1.69	1.82
43	2l	92	0TD	CB-SB	-12.37	1.69	1.82
54	1w	37	MIA	C2-S10	-8.14	1.69	1.75
1	1A	1962	5MC	C5-C4	7.35	1.49	1.44
54	1w	37	MIA	C13-C14	6.84	1.52	1.32
54	2w	37	MIA	C2-S10	-6.69	1.70	1.75
32	2a	967	5MC	C5-C4	6.63	1.49	1.44
1	2A	1962	5MC	C5-C4	6.56	1.49	1.44
32	1a	1404	5MC	C5-C4	6.52	1.49	1.44
1	2A	1942	5MC	C5-C4	6.34	1.48	1.44
32	1a	1400	5MC	C5-C4	6.27	1.48	1.44
55	2x	32	5MC	C5-C4	6.19	1.48	1.44
1	1A	1942	5MC	C5-C4	6.10	1.48	1.44
32	2a	1400	5MC	C5-C4	6.05	1.48	1.44
32	1a	1407	5MC	C5-C4	5.83	1.48	1.44
32	1a	967	5MC	C5-C4	5.69	1.48	1.44
32	2a	1404	5MC	C5-C4	5.64	1.48	1.44
32	2a	1407	5MC	C5-C4	5.49	1.48	1.44
55	1x	32	5MC	C5-C4	5.41	1.48	1.44
54	1w	76	F3N	CB-CG	-5.30	1.38	1.51
56	2y	37	MIA	C5-C4	5.19	1.48	1.39
56	1y	37	MIA	C5-C4	5.10	1.48	1.39
55	2x	8	4SU	C4-N3	-5.03	1.32	1.37
54	2w	76	F3N	CB-CG	-5.00	1.39	1.51
54	1w	8	4SU	C4-S4	-4.87	1.60	1.68
56	2y	8	4SU	C4-S4	-4.86	1.60	1.68
54	2w	37	MIA	C5-C4	4.84	1.47	1.39
54	2w	8	4SU	C4-S4	-4.80	1.60	1.68
55	1x	8	4SU	C4-N3	-4.75	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	37	MIA	C5-C4	4.60	1.47	1.39
55	2x	8	4SU	C4-S4	-4.56	1.60	1.68
1	2A	2503	2MA	C5-C4	4.48	1.47	1.39
56	1y	8	4SU	C4-S4	-4.46	1.60	1.68
55	1x	8	4SU	C4-S4	-4.38	1.60	1.68
56	1y	39	PSU	C6-C5	4.14	1.39	1.35
55	1x	8	4SU	C2-N3	-4.10	1.30	1.38
56	2y	32	PSU	C6-C5	4.05	1.39	1.35
1	1A	2503	2MA	C5-C4	4.04	1.46	1.39
54	1w	55	PSU	C6-C5	3.93	1.39	1.35
54	2w	39	PSU	C6-C5	3.90	1.39	1.35
54	2w	55	PSU	C6-C5	3.90	1.39	1.35
1	2A	2605	PSU	C6-C5	3.85	1.39	1.35
54	1w	76	F3N	C5-N7	-3.83	1.32	1.39
55	2x	76	31H	C5-N7	-3.83	1.32	1.39
54	2w	76	F3N	C5-N7	-3.82	1.32	1.39
56	1y	55	PSU	C6-C5	3.82	1.39	1.35
32	1a	527	7MG	C4-N9	-3.81	1.33	1.37
54	1w	46	7MG	C4-N9	-3.80	1.33	1.37
56	1y	32	PSU	C6-C5	3.77	1.39	1.35
55	1x	76	31H	C5-N7	-3.73	1.32	1.39
1	1A	1911	PSU	C6-C5	3.71	1.39	1.35
56	2y	39	PSU	C6-C5	3.68	1.39	1.35
32	2a	516	PSU	C6-C5	3.66	1.39	1.35
55	1x	55	PSU	C6-C5	3.64	1.39	1.35
56	1y	46	7MG	C5-C4	3.62	1.48	1.37
54	2w	32	PSU	C6-C5	3.61	1.39	1.35
55	2x	8	4SU	C2-N3	-3.60	1.31	1.38
1	2A	1917	PSU	C6-C5	3.59	1.39	1.35
54	1w	8	4SU	C4-N3	-3.58	1.33	1.37
55	1x	8	4SU	C5-C4	-3.54	1.38	1.42
56	2y	46	7MG	C5-C4	3.52	1.48	1.37
54	1w	39	PSU	C6-C5	3.49	1.39	1.35
55	2x	55	PSU	C6-C5	3.44	1.39	1.35
56	2y	8	4SU	C4-N3	-3.42	1.34	1.37
1	1A	1917	PSU	C6-C5	3.40	1.39	1.35
54	1w	46	7MG	C5-C4	3.39	1.48	1.37
32	1a	516	PSU	C6-C5	3.38	1.39	1.35
54	2w	46	7MG	C5-C4	3.36	1.48	1.37
54	2w	46	7MG	C4-N9	-3.30	1.33	1.37
32	2a	527	7MG	C4-N9	-3.28	1.33	1.37
32	2a	1207	2MG	C5-C4	3.27	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	76	F3N	C5-C4	-3.26	1.33	1.39
32	2a	966	M2G	C5-C4	3.25	1.47	1.38
32	1a	966	M2G	C5-C4	3.25	1.47	1.38
56	2y	55	PSU	C6-C5	3.24	1.38	1.35
54	1w	32	PSU	C6-C5	3.23	1.38	1.35
1	1A	2251	OMG	C5-C4	3.18	1.47	1.38
32	1a	527	7MG	C5-C4	3.17	1.47	1.37
1	1A	2605	PSU	C4-N3	-3.16	1.32	1.38
55	2x	76	31H	C5-C4	-3.15	1.33	1.39
56	1y	8	4SU	C4-N3	-3.11	1.34	1.37
56	2y	37	MIA	C5-C6	3.10	1.49	1.41
56	1y	54	5MU	C6-C5	3.09	1.39	1.34
32	2a	527	7MG	C5-C4	3.09	1.47	1.37
1	1A	2605	PSU	C6-C5	3.06	1.38	1.35
56	2y	54	5MU	C6-C5	3.05	1.39	1.34
32	1a	1207	2MG	C5-C4	3.03	1.47	1.38
32	1a	1407	5MC	C6-C5	3.02	1.39	1.34
55	2x	8	4SU	C5-C4	-3.00	1.38	1.42
1	2A	1911	PSU	C6-C5	3.00	1.38	1.35
54	2w	54	5MU	C6-C5	2.99	1.39	1.34
56	2y	54	5MU	C2-N1	2.99	1.43	1.38
32	2a	1400	5MC	C6-C5	2.98	1.39	1.34
32	2a	966	M2G	C2-N2	2.94	1.40	1.35
1	1A	1962	5MC	C6-C5	2.92	1.39	1.34
55	1x	54	5MU	C6-C5	2.92	1.39	1.34
1	1A	2251	OMG	C6-N1	-2.92	1.33	1.38
32	1a	1404	5MC	C6-C5	2.92	1.39	1.34
55	1x	76	31H	C5-C4	-2.91	1.33	1.39
1	2A	2251	OMG	C5-C4	2.90	1.46	1.38
54	1w	76	F3N	C5-C4	-2.90	1.33	1.39
32	1a	1400	5MC	C6-C5	2.90	1.39	1.34
32	2a	1404	5MC	C6-C5	2.89	1.39	1.34
54	2w	37	MIA	C5-C6	2.85	1.48	1.41
1	2A	1942	5MC	C6-C5	2.85	1.39	1.34
56	1y	37	MIA	C5-C6	2.83	1.48	1.41
1	2A	1915	5MU	C6-C5	2.83	1.39	1.34
1	1A	2552	2MU	C4-N3	-2.83	1.33	1.38
1	2A	1939	5MU	C6-C5	2.82	1.39	1.34
54	2w	39	PSU	C4-N3	-2.80	1.33	1.38
1	1A	1911	PSU	C4-N3	-2.79	1.33	1.38
56	1y	54	5MU	C4-N3	-2.76	1.33	1.38
1	2A	2552	2MU	C4-N3	-2.76	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1407	5MC	C6-C5	2.75	1.39	1.34
32	1a	966	M2G	C6-N1	-2.75	1.33	1.38
32	1a	966	M2G	C2-N2	2.72	1.40	1.35
1	2A	1962	5MC	C6-C5	2.72	1.39	1.34
55	2x	55	PSU	C4-N3	-2.70	1.33	1.38
1	2A	2251	OMG	C6-N1	-2.69	1.33	1.38
1	2A	1911	PSU	C4-N3	-2.69	1.33	1.38
1	2A	1917	PSU	C4-N3	-2.68	1.33	1.38
1	2A	1915	5MU	C2-N1	2.67	1.42	1.38
1	2A	2605	PSU	C4-N3	-2.67	1.33	1.38
55	1x	32	5MC	C6-N1	-2.66	1.33	1.38
54	1w	8	4SU	C5-C4	-2.66	1.39	1.42
56	2y	8	4SU	C5-C4	-2.66	1.39	1.42
54	1w	54	5MU	C2-N1	2.65	1.42	1.38
1	1A	1915	5MU	C4-N3	-2.65	1.33	1.38
56	2y	46	7MG	C8-N9	2.65	1.47	1.45
55	2x	54	5MU	C6-C5	2.64	1.38	1.34
32	1a	516	PSU	C4-N3	-2.63	1.33	1.38
54	1w	54	5MU	C6-C5	2.62	1.38	1.34
32	2a	967	5MC	C6-C5	2.61	1.38	1.34
56	1y	46	7MG	C8-N9	2.61	1.47	1.45
56	2y	54	5MU	C4-C5	2.61	1.49	1.44
55	1x	76	31H	C5-C6	-2.60	1.33	1.41
55	2x	54	5MU	C4-N3	-2.59	1.34	1.38
54	1w	37	MIA	C8-N7	2.59	1.36	1.31
1	1A	1942	5MC	C6-C5	2.58	1.38	1.34
54	1w	37	MIA	C5-C6	2.58	1.48	1.41
55	1x	54	5MU	C4-N3	-2.56	1.34	1.38
55	2x	32	5MC	C6-C5	2.55	1.38	1.34
1	1A	2503	2MA	C5-N7	-2.55	1.34	1.39
54	1w	76	F3N	C5-C6	-2.55	1.33	1.41
1	1A	1939	5MU	C6-C5	2.55	1.38	1.34
55	2x	76	31H	C5-C6	-2.54	1.33	1.41
56	2y	46	7MG	C6-N1	-2.54	1.34	1.38
56	1y	55	PSU	C4-N3	-2.53	1.34	1.38
56	2y	37	MIA	C8-N7	2.53	1.36	1.31
1	2A	2552	2MU	C5-C4	2.52	1.49	1.43
56	2y	55	PSU	C4-N3	-2.52	1.34	1.38
1	1A	1915	5MU	C2-N1	2.52	1.42	1.38
56	1y	8	4SU	C2-N1	2.52	1.42	1.38
55	1x	32	5MC	C6-C5	2.51	1.38	1.34
54	1w	32	PSU	C4-N3	-2.50	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	1y	54	5MU	C2-N1	2.50	1.42	1.38
1	2A	2503	2MA	C5-C6	2.50	1.48	1.41
1	2A	1939	5MU	C6-N1	-2.49	1.33	1.38
56	1y	32	PSU	C4-N3	-2.48	1.34	1.38
1	1A	2503	2MA	C5-C6	2.48	1.47	1.41
54	1w	37	MIA	C5-N7	-2.47	1.34	1.39
54	2w	76	F3N	C5-C6	-2.47	1.34	1.41
56	2y	8	4SU	C2-N1	2.47	1.42	1.38
54	2w	54	5MU	C4-N3	-2.47	1.34	1.38
1	2A	2605	PSU	C2-N3	-2.47	1.33	1.37
54	2w	8	4SU	C5-C4	-2.47	1.39	1.42
54	2w	8	4SU	C4-N3	-2.47	1.35	1.37
32	2a	966	M2G	C6-N1	-2.46	1.34	1.38
1	1A	1939	5MU	C6-N1	-2.45	1.33	1.38
1	1A	2251	OMG	C5-N7	-2.45	1.34	1.39
55	2x	54	5MU	C2-N1	2.45	1.42	1.38
1	2A	1939	5MU	C4-N3	-2.45	1.34	1.38
32	2a	516	PSU	C4-N3	-2.44	1.34	1.38
1	2A	1915	5MU	C4-C5	2.44	1.48	1.44
32	2a	1207	2MG	C6-N1	-2.44	1.34	1.38
32	1a	967	5MC	C6-C5	2.43	1.38	1.34
54	1w	46	7MG	C8-N9	2.43	1.47	1.45
1	2A	2503	2MA	C5-N7	-2.41	1.34	1.39
54	1w	39	PSU	C4-N3	-2.40	1.34	1.38
1	1A	1942	5MC	C6-N1	-2.39	1.33	1.38
32	1a	527	7MG	C6-N1	-2.39	1.34	1.38
1	2A	1962	5MC	C6-N1	-2.38	1.34	1.38
55	1x	55	PSU	C4-N3	-2.38	1.34	1.38
56	1y	8	4SU	C5-C4	-2.37	1.39	1.42
1	1A	1917	PSU	C4-N3	-2.37	1.34	1.38
1	2A	2503	2MA	C8-N7	2.36	1.36	1.31
56	1y	54	5MU	C4-C5	2.36	1.48	1.44
56	2y	39	PSU	C4-N3	-2.36	1.34	1.38
54	2w	37	MIA	C5-N7	-2.36	1.34	1.39
1	1A	1939	5MU	C4-C5	2.35	1.48	1.44
55	2x	32	5MC	C6-N1	-2.34	1.34	1.38
1	1A	1939	5MU	C4-N3	-2.34	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.34	1.34	1.38
1	1A	1915	5MU	C6-C5	2.33	1.38	1.34
54	2w	32	PSU	C4-N3	-2.32	1.34	1.38
56	1y	37	MIA	C8-N7	2.32	1.36	1.31
32	1a	967	5MC	C6-N1	-2.31	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	1y	46	7MG	C6-N1	-2.31	1.34	1.38
54	2w	54	5MU	C4-C5	2.30	1.48	1.44
1	1A	2605	PSU	C2-N3	-2.29	1.33	1.37
32	2a	1498	UR3	C2-N1	2.29	1.41	1.38
54	1w	8	4SU	C2-N3	-2.29	1.34	1.38
54	1w	54	5MU	C4-N3	-2.28	1.34	1.38
1	1A	1915	5MU	C6-N1	-2.27	1.34	1.38
1	1A	2552	2MU	C2-N3	-2.26	1.34	1.38
1	2A	1915	5MU	C4-N3	-2.26	1.34	1.38
54	2w	37	MIA	C8-N7	2.25	1.36	1.31
56	1y	54	5MU	C2-N3	-2.24	1.34	1.38
54	2w	55	PSU	C4-N3	-2.24	1.34	1.38
54	2w	8	4SU	C2-N1	2.23	1.42	1.38
56	2y	32	PSU	C4-N3	-2.23	1.34	1.38
1	2A	2251	OMG	C4-N9	-2.22	1.32	1.38
55	2x	54	5MU	C4-C5	2.21	1.48	1.44
32	1a	1400	5MC	C6-N1	-2.21	1.34	1.38
1	1A	1962	5MC	C6-N1	-2.21	1.34	1.38
55	1x	54	5MU	C4-C5	2.21	1.48	1.44
56	2y	54	5MU	C4-N3	-2.20	1.34	1.38
1	2A	1942	5MC	C6-N1	-2.20	1.34	1.38
32	1a	1498	UR3	C2-N1	2.19	1.41	1.38
32	2a	967	5MC	C6-N1	-2.19	1.34	1.38
56	1y	39	PSU	C4-N3	-2.17	1.34	1.38
54	1w	54	5MU	C4-C5	2.17	1.48	1.44
1	1A	2503	2MA	C8-N7	2.16	1.35	1.31
1	1A	2552	2MU	C5-C4	2.16	1.48	1.43
32	2a	1404	5MC	C6-N1	-2.16	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.16	1.34	1.38
32	1a	1404	5MC	C6-N1	-2.15	1.34	1.38
1	1A	1939	5MU	C2-N3	-2.15	1.34	1.38
1	2A	1939	5MU	C2-N3	-2.14	1.34	1.38
1	2A	1915	5MU	C6-N1	-2.14	1.34	1.38
32	2a	527	7MG	C6-N1	-2.13	1.34	1.38
54	1w	37	MIA	C4-N9	-2.13	1.33	1.37
56	2y	8	4SU	C2-N3	-2.13	1.34	1.38
1	2A	2251	OMG	C5-N7	-2.12	1.34	1.39
55	2x	54	5MU	C6-N1	-2.12	1.34	1.38
32	2a	1400	5MC	C6-N1	-2.11	1.34	1.38
56	1y	37	MIA	C5-N7	-2.11	1.35	1.39
56	1y	8	4SU	C2-N3	-2.10	1.34	1.38
1	1A	1915	5MU	C2-N3	-2.09	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	46	7MG	C6-N1	-2.09	1.34	1.38
55	1x	54	5MU	C2-N3	-2.08	1.34	1.38
1	1A	1939	5MU	C2-N1	2.08	1.41	1.38
54	1w	8	4SU	C2-N1	2.08	1.41	1.38
32	1a	1498	UR3	C6-C5	2.07	1.39	1.35
32	2a	966	M2G	C5-N7	-2.07	1.34	1.39
32	2a	1207	2MG	C5-N7	-2.07	1.34	1.39
54	2w	76	F3N	C2'-C3'	-2.06	1.50	1.53
32	1a	966	M2G	C5-N7	-2.06	1.35	1.39
32	1a	1207	2MG	C5-N7	-2.04	1.35	1.39
1	2A	1911	PSU	C2-N3	-2.03	1.34	1.37
32	2a	1498	UR3	C6-C5	2.03	1.39	1.35
54	2w	46	7MG	C6-N1	-2.03	1.35	1.38
55	2x	54	5MU	C2-N3	-2.02	1.34	1.38
1	2A	2552	2MU	C2-N3	-2.02	1.34	1.38
1	2A	2503	2MA	C4-N9	-2.02	1.33	1.37
54	1w	55	PSU	C4-N3	-2.00	1.35	1.38

All (478) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	1l	92	0TD	CSB-SB-CB	-22.85	61.30	102.36
43	2l	92	0TD	CSB-SB-CB	-20.94	64.73	102.36
56	2y	46	7MG	N9-C4-N3	9.95	140.04	125.46
56	1y	46	7MG	N9-C4-N3	9.64	139.59	125.46
54	1w	37	MIA	C12-C13-C14	-9.50	109.96	127.01
54	2w	37	MIA	C5-C4-N3	-8.86	117.85	127.18
32	2a	527	7MG	N9-C4-N3	8.73	138.25	125.46
54	2w	46	7MG	N9-C4-N3	8.68	138.18	125.46
54	1w	46	7MG	N9-C4-N3	8.56	138.01	125.46
32	1a	527	7MG	N9-C4-N3	8.52	137.94	125.46
1	1A	2503	2MA	C5-C4-N3	-8.15	118.60	127.18
1	2A	2503	2MA	C5-C4-N3	-8.01	118.74	127.18
54	2w	8	4SU	C4-N3-C2	-7.91	119.73	127.31
54	1w	37	MIA	C5-C4-N3	-7.40	119.39	127.18
32	1a	1498	UR3	C4-N3-C2	-7.26	118.74	124.58
32	2a	1498	UR3	C4-N3-C2	-7.21	118.78	124.58
54	2w	37	MIA	N3-C4-N9	6.98	135.85	126.99
32	1a	1207	2MG	C2-N3-C4	6.95	120.70	112.00
1	1A	2605	PSU	N1-C2-N3	6.77	122.31	115.17
32	2a	1207	2MG	C2-N3-C4	6.76	120.46	112.00
1	2A	1911	PSU	N1-C2-N3	6.73	122.27	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1911	PSU	N1-C2-N3	6.48	122.01	115.17
1	2A	1917	PSU	N1-C2-N3	6.44	121.96	115.17
1	2A	2503	2MA	N3-C4-N9	6.34	135.04	126.99
56	1y	55	PSU	N1-C2-N3	6.30	121.81	115.17
55	2x	55	PSU	N1-C2-N3	6.30	121.81	115.17
32	2a	516	PSU	N1-C2-N3	6.29	121.80	115.17
32	1a	516	PSU	N1-C2-N3	6.28	121.79	115.17
32	1a	966	M2G	C5-C4-N3	-6.28	118.40	128.39
54	1w	55	PSU	N1-C2-N3	6.27	121.78	115.17
56	1y	37	MIA	C5-C4-N3	-6.24	118.12	126.72
1	1A	2503	2MA	N3-C4-N9	6.23	134.89	126.99
56	2y	39	PSU	N1-C2-N3	6.16	121.67	115.17
56	2y	55	PSU	N1-C2-N3	6.16	121.67	115.17
1	1A	1917	PSU	N1-C2-N3	6.15	121.66	115.17
1	1A	2251	OMG	C5-C4-N3	-6.11	118.66	128.39
54	2w	8	4SU	C5-C4-N3	6.11	120.44	114.75
1	2A	2605	PSU	N1-C2-N3	6.11	121.61	115.17
32	2a	1207	2MG	C5-C4-N3	-6.07	118.73	128.39
32	2a	966	M2G	C5-C4-N3	-6.03	118.79	128.39
55	1x	55	PSU	N1-C2-N3	6.02	121.52	115.17
54	1w	39	PSU	N1-C2-N3	6.01	121.51	115.17
54	1w	32	PSU	N1-C2-N3	5.96	121.46	115.17
56	2y	46	7MG	C5-C4-N3	-5.93	117.01	128.13
55	1x	76	31H	N1-C2-N3	-5.90	119.65	128.58
54	1w	76	F3N	N1-C2-N3	-5.89	119.66	128.58
32	2a	527	7MG	N9-C8-N7	-5.86	95.08	103.37
55	2x	76	31H	N1-C2-N3	-5.84	119.74	128.58
56	2y	37	MIA	C5-C4-N3	-5.81	118.72	126.72
54	2w	55	PSU	N1-C2-N3	5.75	121.23	115.17
56	1y	32	PSU	N1-C2-N3	5.75	121.23	115.17
56	1y	39	PSU	N1-C2-N3	5.75	121.23	115.17
32	1a	1207	2MG	C5-C4-N3	-5.72	119.28	128.39
54	2w	76	F3N	N1-C2-N3	-5.72	119.92	128.58
56	2y	32	PSU	N1-C2-N3	5.61	121.09	115.17
1	1A	1915	5MU	C4-N3-C2	-5.59	120.00	127.34
1	1A	1939	5MU	C4-N3-C2	-5.59	120.02	127.34
56	1y	46	7MG	C5-C4-N3	-5.58	117.65	128.13
1	1A	2058	MA6	N1-C2-N3	-5.55	120.19	128.58
1	2A	1939	5MU	C4-N3-C2	-5.52	120.11	127.34
56	2y	8	4SU	C4-N3-C2	-5.48	122.06	127.31
54	2w	32	PSU	N1-C2-N3	5.47	120.94	115.17
55	1x	76	31H	O4'-C1'-N9	5.45	118.56	108.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	2251	OMG	C5-C4-N3	-5.42	119.76	128.39
54	2w	46	7MG	N9-C8-N7	-5.40	95.73	103.37
54	1w	8	4SU	C5-C4-N3	5.35	119.72	114.75
54	1w	46	7MG	N9-C8-N7	-5.32	95.83	103.37
32	1a	527	7MG	N9-C8-N7	-5.31	95.86	103.37
54	2w	39	PSU	N1-C2-N3	5.31	120.76	115.17
1	2A	2058	MA6	N1-C2-N3	-5.30	120.56	128.58
1	2A	2552	2MU	N3-C2-N1	5.26	121.74	114.89
54	1w	76	F3N	C5-C4-N3	-5.24	119.51	126.72
55	1x	76	31H	C5-C4-N3	-5.23	119.51	126.72
32	2a	1518	MA6	N1-C2-N3	-5.22	120.68	128.58
1	1A	1915	5MU	C5-C4-N3	5.21	119.85	115.32
32	1a	1518	MA6	N1-C2-N3	-5.20	120.71	128.58
56	2y	8	4SU	C5-C4-N3	5.18	119.57	114.75
32	2a	527	7MG	C5-C4-N3	-5.17	118.43	128.13
54	2w	46	7MG	C5-C4-N3	-5.17	118.43	128.13
55	2x	76	31H	C5-C4-N3	-5.15	119.63	126.72
1	1A	1915	5MU	N3-C2-N1	5.15	121.59	114.89
55	2x	54	5MU	C4-N3-C2	-5.15	120.59	127.34
1	1A	2552	2MU	N3-C2-N1	5.13	121.57	114.89
32	2a	1519	MA6	N1-C2-N3	-5.13	120.82	128.58
56	2y	54	5MU	N3-C2-N1	5.13	121.56	114.89
1	1A	1939	5MU	C5-C4-N3	5.11	119.77	115.32
1	2A	1915	5MU	C4-N3-C2	-5.11	120.64	127.34
56	2y	54	5MU	C4-N3-C2	-5.08	120.69	127.34
54	1w	37	MIA	N3-C4-N9	5.06	133.41	126.99
1	2A	1915	5MU	N3-C2-N1	5.05	121.47	114.89
55	2x	54	5MU	N3-C2-N1	5.04	121.45	114.89
32	1a	527	7MG	C5-C4-N3	-5.04	118.67	128.13
54	1w	8	4SU	C4-N3-C2	-5.02	122.50	127.31
56	1y	37	MIA	N3-C4-N9	5.02	135.70	127.17
55	1x	54	5MU	N3-C2-N1	5.00	121.40	114.89
1	2A	1939	5MU	O4-C4-C5	-4.99	119.20	124.92
32	1a	1519	MA6	N1-C2-N3	-4.96	121.08	128.58
1	2A	1939	5MU	N3-C2-N1	4.96	121.34	114.89
56	1y	8	4SU	C4-N3-C2	-4.96	122.56	127.31
54	2w	76	F3N	C5-C4-N3	-4.92	119.94	126.72
56	1y	46	7MG	N9-C8-N7	-4.91	96.42	103.37
1	1A	2251	OMG	C2-N3-C4	4.91	120.75	112.30
54	2w	8	4SU	C5-C4-S4	-4.87	118.75	124.31
32	2a	966	M2G	N9-C4-N3	4.82	135.59	125.95
56	1y	8	4SU	C5-C4-N3	4.81	119.22	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1915	5MU	O4-C4-C5	-4.81	119.42	124.92
1	2A	1939	5MU	C5-C4-N3	4.78	119.48	115.32
54	1w	46	7MG	C5-C4-N3	-4.78	119.16	128.13
1	2A	2552	2MU	C4-N3-C2	-4.78	120.68	126.61
54	2w	8	4SU	N3-C2-N1	4.74	121.06	114.89
54	1w	54	5MU	C4-N3-C2	-4.68	121.20	127.34
56	1y	54	5MU	N3-C2-N1	4.66	120.95	114.89
56	2y	46	7MG	C2-N3-C4	4.61	120.25	112.30
1	1A	1939	5MU	C5-C6-N1	-4.61	118.31	123.31
1	2A	1911	PSU	C4-N3-C2	-4.60	120.04	126.37
54	2w	54	5MU	N3-C2-N1	4.59	120.86	114.89
1	2A	1915	5MU	O4-C4-C5	-4.58	119.67	124.92
54	1w	54	5MU	N3-C2-N1	4.58	120.85	114.89
1	1A	1939	5MU	O4-C4-C5	-4.56	119.70	124.92
56	2y	46	7MG	N9-C8-N7	-4.56	96.91	103.37
1	2A	2251	OMG	C2-N3-C4	4.56	120.15	112.30
56	1y	46	7MG	C2-N3-C4	4.55	120.14	112.30
56	2y	37	MIA	N3-C4-N9	4.54	134.90	127.17
54	2w	54	5MU	C4-N3-C2	-4.51	121.43	127.34
55	2x	54	5MU	C5-C4-N3	4.49	119.23	115.32
1	1A	1939	5MU	N3-C2-N1	4.49	120.73	114.89
1	1A	2251	OMG	N9-C4-N3	4.48	134.91	125.95
55	1x	54	5MU	C4-N3-C2	-4.48	121.47	127.34
32	1a	966	M2G	N9-C4-N3	4.48	134.90	125.95
32	1a	966	M2G	C2-N3-C4	4.47	120.78	112.51
55	2x	54	5MU	O4-C4-C5	-4.46	119.81	124.92
54	1w	54	5MU	O4-C4-C5	-4.46	119.81	124.92
32	2a	527	7MG	C2-N3-C4	4.39	119.87	112.30
32	2a	966	M2G	C2-N3-C4	4.34	120.54	112.51
1	2A	2058	MA6	C2-N1-C6	4.33	122.41	111.83
32	2a	1518	MA6	C2-N1-C6	4.32	122.38	111.83
56	2y	54	5MU	C5-C4-N3	4.29	119.06	115.32
1	1A	2552	2MU	C4-N3-C2	-4.29	121.29	126.61
32	2a	1518	MA6	C5-C4-N3	-4.28	120.82	126.72
32	2a	1519	MA6	C5-C4-N3	-4.28	120.82	126.72
54	2w	46	7MG	C2-N3-C4	4.27	119.65	112.30
56	2y	54	5MU	O4-C4-C5	-4.26	120.04	124.92
54	1w	39	PSU	C4-N3-C2	-4.26	120.50	126.37
56	1y	54	5MU	C4-N3-C2	-4.25	121.77	127.34
54	1w	54	5MU	C5-C4-N3	4.25	119.02	115.32
1	2A	1915	5MU	C5-C4-N3	4.24	119.01	115.32
1	1A	2058	MA6	C2-N1-C6	4.23	122.16	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	1518	MA6	C2-N1-C6	4.22	122.15	111.83
1	1A	1911	PSU	C4-N3-C2	-4.22	120.56	126.37
55	2x	55	PSU	C4-N3-C2	-4.20	120.58	126.37
1	1A	2058	MA6	C5-N7-C8	4.19	110.04	103.45
56	1y	55	PSU	O2-C2-N1	-4.17	118.49	122.79
1	1A	2058	MA6	C5-C4-N3	-4.15	121.00	126.72
32	1a	527	7MG	C2-N3-C4	4.14	119.43	112.30
1	1A	2058	MA6	C4-C5-N7	-4.14	105.85	110.58
1	2A	1939	5MU	C5-C6-N1	-4.14	118.82	123.31
54	1w	55	PSU	O2-C2-N1	-4.13	118.53	122.79
32	2a	1207	2MG	N9-C4-N3	4.12	134.20	125.95
32	1a	516	PSU	C4-N3-C2	-4.11	120.71	126.37
54	1w	37	MIA	C6-C5-N7	4.09	136.89	132.43
1	2A	2251	OMG	N9-C4-N3	4.09	134.14	125.95
32	2a	516	PSU	C4-N3-C2	-4.08	120.75	126.37
32	1a	1519	MA6	C5-N7-C8	4.08	109.86	103.45
1	1A	2605	PSU	C4-N3-C2	-4.08	120.75	126.37
56	2y	39	PSU	C4-N3-C2	-4.08	120.75	126.37
1	2A	2058	MA6	C5-N7-C8	4.07	109.85	103.45
54	2w	54	5MU	C5-C4-N3	4.07	118.86	115.32
1	2A	1917	PSU	C4-N3-C2	-4.05	120.79	126.37
55	1x	54	5MU	O4-C4-C5	-4.04	120.29	124.92
54	1w	37	MIA	C15-C14-C13	-4.04	110.53	122.66
32	1a	1519	MA6	C4-C5-N7	-4.02	105.99	110.58
32	2a	1519	MA6	C5-N7-C8	4.01	109.76	103.45
1	1A	1917	PSU	C4-N3-C2	-4.00	120.86	126.37
1	2A	2058	MA6	C4-C5-N7	-3.99	106.02	110.58
32	2a	516	PSU	O2-C2-N1	-3.99	118.68	122.79
32	1a	1207	2MG	N9-C4-N3	3.98	133.91	125.95
32	1a	1519	MA6	C2-N1-C6	3.94	121.46	111.83
54	2w	54	5MU	O4-C4-C5	-3.94	120.41	124.92
54	1w	32	PSU	C4-N3-C2	-3.93	120.95	126.37
32	1a	1519	MA6	C5-C4-N3	-3.93	121.31	126.72
56	1y	55	PSU	C4-N3-C2	-3.92	120.97	126.37
56	1y	32	PSU	C4-N3-C2	-3.89	121.01	126.37
32	2a	1519	MA6	C2-N1-C6	3.88	121.32	111.83
32	1a	1207	2MG	C6-C5-N7	3.88	137.35	130.29
54	1w	55	PSU	C4-N3-C2	-3.82	121.10	126.37
1	1A	1917	PSU	O2-C2-N1	-3.82	118.85	122.79
56	1y	54	5MU	C5-C4-N3	3.81	118.64	115.32
55	1x	55	PSU	C4-N3-C2	-3.81	121.12	126.37
32	2a	1519	MA6	C4-C5-N7	-3.81	106.23	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	1518	MA6	C5-C4-N3	-3.81	121.47	126.72
54	2w	55	PSU	C4-N3-C2	-3.81	121.13	126.37
56	1y	39	PSU	C4-N3-C2	-3.81	121.13	126.37
54	1w	46	7MG	C2-N3-C4	3.81	118.85	112.30
56	2y	55	PSU	C4-N3-C2	-3.80	121.14	126.37
56	1y	37	MIA	C2-N3-C4	3.78	121.07	111.83
56	2y	37	MIA	C4-C5-N7	-3.78	106.26	110.58
55	1x	8	4SU	O2-C2-N1	3.76	127.70	122.80
1	2A	2605	PSU	C4-N3-C2	-3.76	121.19	126.37
55	1x	54	5MU	C5-C4-N3	3.75	118.58	115.32
55	2x	8	4SU	C5-C4-N3	3.73	118.22	114.75
56	2y	8	4SU	N3-C2-N1	3.72	119.74	114.89
1	1A	2058	MA6	N9-C8-N7	-3.71	108.67	113.94
55	2x	32	5MC	C5-C6-N1	-3.70	119.29	123.31
1	2A	1911	PSU	O2-C2-N1	-3.70	118.97	122.79
54	1w	37	MIA	C16-C14-C13	-3.70	111.56	122.66
32	2a	1519	MA6	N9-C8-N7	-3.69	108.70	113.94
54	2w	32	PSU	C4-N3-C2	-3.68	121.30	126.37
32	2a	1518	MA6	C5-N7-C8	3.68	109.23	103.45
32	1a	1519	MA6	N9-C8-N7	-3.67	108.73	113.94
1	2A	2058	MA6	N9-C8-N7	-3.67	108.73	113.94
54	1w	37	MIA	C4-C5-N7	-3.65	106.41	110.58
1	1A	2058	MA6	C2-N3-C4	3.64	120.73	111.83
55	1x	8	4SU	C6-C5-C4	-3.61	116.83	119.95
56	2y	37	MIA	C2-N3-C4	3.60	120.62	111.83
32	2a	1519	MA6	C2-N3-C4	3.59	120.60	111.83
1	1A	2503	2MA	C4-C5-N7	-3.58	106.48	110.58
1	2A	2058	MA6	C5-C4-N3	-3.57	121.79	126.72
56	2y	32	PSU	C4-N3-C2	-3.56	121.47	126.37
1	2A	1939	5MU	O2-C2-N1	-3.55	118.17	122.80
55	1x	76	31H	CA-N-CN	-3.55	117.36	122.82
54	2w	37	MIA	C4-C5-N7	-3.54	106.53	110.58
54	1w	39	PSU	O2-C2-N1	-3.54	119.14	122.79
54	1w	76	F3N	C2-N3-C4	3.53	120.46	111.83
55	1x	76	31H	N9-C8-N7	-3.52	108.94	113.94
55	1x	76	31H	C2-N3-C4	3.52	120.42	111.83
43	1l	92	0TD	OD2-CG-CB	3.51	120.73	113.15
1	2A	2503	2MA	C4-C5-N7	-3.51	106.57	110.58
32	2a	1404	5MC	C5-C6-N1	-3.50	119.51	123.31
1	2A	2552	2MU	O2-C2-N1	-3.50	118.24	122.80
55	2x	76	31H	N9-C8-N7	-3.49	108.99	113.94
55	1x	55	PSU	O2-C2-N1	-3.48	119.20	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	76	F3N	N9-C8-N7	-3.48	109.00	113.94
1	2A	2503	2MA	N6-C6-N1	3.47	121.72	117.03
55	2x	76	31H	C2-N3-C4	3.47	120.31	111.83
56	2y	55	PSU	O2-C2-N1	-3.47	119.21	122.79
54	2w	37	MIA	C12-N6-C6	-3.46	119.64	122.85
54	2w	37	MIA	C2-N3-C4	3.45	121.34	112.29
32	2a	1518	MA6	N9-C8-N7	-3.45	109.05	113.94
32	2a	1518	MA6	C2-N3-C4	3.44	120.23	111.83
56	1y	8	4SU	N3-C2-N1	3.44	119.36	114.89
56	2y	32	PSU	O2-C2-N1	-3.44	119.25	122.79
54	1w	32	PSU	O2-C2-N1	-3.43	119.25	122.79
56	1y	54	5MU	O4-C4-C5	-3.42	121.00	124.92
32	1a	1518	MA6	C5-N7-C8	3.42	108.83	103.45
32	1a	1400	5MC	C5-C6-N1	-3.42	119.60	123.31
1	2A	1917	PSU	O2-C2-N1	-3.42	119.26	122.79
1	1A	1911	PSU	O2-C2-N1	-3.41	119.27	122.79
56	1y	54	5MU	C5-C6-N1	-3.39	119.63	123.31
1	1A	1942	5MC	C5-C4-N3	-3.38	118.30	121.75
32	2a	1518	MA6	C4-C5-N7	-3.37	106.73	110.58
1	2A	1942	5MC	C5-C6-N1	-3.36	119.66	123.31
32	1a	1519	MA6	C2-N3-C4	3.36	120.04	111.83
56	1y	37	MIA	N3-C2-N1	-3.36	123.50	128.58
54	2w	76	F3N	N9-C8-N7	-3.36	109.17	113.94
56	1y	37	MIA	C4-C5-N7	-3.35	106.75	110.58
55	2x	54	5MU	C5-C6-N1	-3.34	119.69	123.31
54	2w	76	F3N	C2-N3-C4	3.33	119.97	111.83
32	1a	1518	MA6	C2-N3-C4	3.33	119.96	111.83
1	1A	1962	5MC	C5-C6-N1	-3.33	119.70	123.31
1	2A	2251	OMG	C6-C5-N7	3.32	136.34	130.29
32	2a	1400	5MC	C5-C6-N1	-3.31	119.72	123.31
54	2w	55	PSU	O2-C2-N1	-3.30	119.38	122.79
54	2w	8	4SU	O2-C2-N1	-3.30	118.50	122.80
56	2y	39	PSU	O2-C2-N1	-3.30	119.39	122.79
56	1y	8	4SU	C1'-N1-C2	3.29	123.50	117.59
54	1w	37	MIA	C2-N3-C4	3.28	120.87	112.29
55	1x	76	31H	C4'-O4'-C1'	-3.27	102.24	109.47
1	2A	2058	MA6	C2-N3-C4	3.26	119.81	111.83
54	2w	54	5MU	C5-C6-N1	-3.26	119.77	123.31
32	1a	516	PSU	O2-C2-N1	-3.25	119.44	122.79
54	1w	8	4SU	C5-C4-S4	-3.25	120.59	124.31
56	2y	37	MIA	N3-C2-N1	-3.24	123.67	128.58
55	1x	32	5MC	C5-C6-N1	-3.24	119.79	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1207	2MG	C6-C5-N7	3.24	136.19	130.29
55	2x	76	31H	C4'-O4'-C1'	-3.24	102.32	109.47
55	1x	32	5MC	C5-C4-N3	-3.23	118.45	121.75
32	1a	966	M2G	C6-C5-N7	3.21	136.13	130.29
32	1a	1498	UR3	C5-C4-N3	3.21	119.27	115.04
32	1a	1404	5MC	C5-C6-N1	-3.20	119.83	123.31
32	1a	1518	MA6	N9-C8-N7	-3.20	109.39	113.94
32	1a	1407	5MC	C5-C4-N3	-3.19	118.48	121.75
55	2x	8	4SU	C6-C5-C4	-3.19	117.19	119.95
32	1a	1407	5MC	C5-C6-N1	-3.18	119.86	123.31
32	2a	967	5MC	C5-C6-N1	-3.18	119.86	123.31
1	1A	1942	5MC	C5-C6-N1	-3.16	119.88	123.31
1	1A	1915	5MU	C5-C6-N1	-3.16	119.88	123.31
54	2w	32	PSU	O2-C2-N1	-3.14	119.55	122.79
32	2a	1498	UR3	C5-C4-N3	3.14	119.17	115.04
56	1y	32	PSU	O2-C2-N1	-3.13	119.56	122.79
32	2a	1407	5MC	C5-C4-N3	-3.09	118.58	121.75
32	1a	1518	MA6	C4-C5-N7	-3.09	107.05	110.58
1	1A	2251	OMG	C6-C5-N7	3.09	135.91	130.29
56	1y	39	PSU	O2-C2-N1	-3.09	119.61	122.79
55	1x	76	31H	C5-N7-C8	3.07	108.27	103.45
56	2y	54	5MU	C5-C6-N1	-3.06	119.98	123.31
54	1w	76	F3N	C5-N7-C8	3.06	108.26	103.45
55	1x	54	5MU	O2-C2-N1	-3.06	118.81	122.80
1	1A	2552	2MU	C5-C4-N3	3.04	119.06	114.80
32	2a	967	5MC	C5-C4-N3	-3.03	118.65	121.75
1	1A	2503	2MA	N6-C6-N1	3.02	121.10	117.03
55	2x	76	31H	C5-N7-C8	3.02	108.20	103.45
32	1a	1207	2MG	C4-C5-N7	-3.02	105.89	110.67
1	1A	2552	2MU	O2-C2-N1	-3.02	118.87	122.80
1	2A	1915	5MU	C5-C6-N1	-3.01	120.05	123.31
56	2y	8	4SU	C5-C4-S4	-3.00	120.88	124.31
54	1w	8	4SU	N3-C2-N1	2.97	118.76	114.89
1	2A	2503	2MA	C4-N9-C8	2.97	108.85	105.74
32	2a	1407	5MC	C5-C6-N1	-2.95	120.11	123.31
54	2w	39	PSU	C4-N3-C2	-2.95	122.31	126.37
54	2w	37	MIA	C11-S10-C2	-2.94	100.04	102.25
55	2x	8	4SU	O2-C2-N1	2.94	126.62	122.80
43	2l	92	0TD	OD2-CG-CB	2.93	119.47	113.15
54	2w	76	F3N	C5-N7-C8	2.92	108.05	103.45
55	2x	8	4SU	C1'-N1-C2	2.91	122.82	117.59
55	1x	54	5MU	C5-C6-N1	-2.90	120.16	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	1962	5MC	C5-C6-N1	-2.90	120.16	123.31
55	1x	8	4SU	C5-C4-N3	2.90	117.44	114.75
32	2a	1518	MA6	N3-C4-N9	2.89	132.08	127.17
54	1w	54	5MU	C5-C6-N1	-2.89	120.18	123.31
55	2x	55	PSU	O2-C2-N1	-2.86	119.83	122.79
32	2a	966	M2G	C6-C5-N7	2.85	135.48	130.29
32	1a	967	5MC	C5-C6-N1	-2.85	120.22	123.31
1	1A	1962	5MC	C5-C4-N3	-2.83	118.86	121.75
32	2a	1404	5MC	C5-C4-N3	-2.80	118.88	121.75
56	1y	46	7MG	C5-C4-N9	-2.79	102.76	106.33
32	2a	1207	2MG	C4-C5-N7	-2.79	106.25	110.67
1	1A	2552	2MU	C2'-C1'-N1	-2.79	108.95	114.24
55	2x	32	5MC	C5-C4-N3	-2.78	118.90	121.75
56	1y	8	4SU	C5-C4-S4	-2.78	121.13	124.31
55	2x	76	31H	O4'-C1'-N9	2.77	113.41	108.09
32	2a	1400	5MC	C5-C4-N3	-2.76	118.92	121.75
1	2A	2552	2MU	C5-C4-N3	2.76	118.67	114.80
54	1w	46	7MG	C5-C4-N9	-2.75	102.81	106.33
1	1A	1939	5MU	O2-C2-N1	-2.75	119.22	122.80
32	1a	1404	5MC	C5-C4-N3	-2.75	118.94	121.75
55	1x	76	31H	N3-C4-N9	2.75	131.84	127.17
54	1w	76	F3N	N3-C4-N9	2.75	131.84	127.17
55	2x	76	31H	C5-C4-N9	2.73	108.78	105.81
54	2w	37	MIA	C5-N7-C8	2.72	107.73	103.45
55	1x	8	4SU	C1'-N1-C2	2.72	122.48	117.59
54	2w	54	5MU	O2-C2-N1	-2.71	119.26	122.80
32	2a	1519	MA6	N3-C4-N9	2.71	131.78	127.17
56	2y	37	MIA	C5-N7-C8	2.71	107.71	103.45
54	2w	76	F3N	C5-C4-N9	2.70	108.76	105.81
32	1a	966	M2G	C4-C5-N7	-2.70	106.40	110.67
1	1A	2503	2MA	C2-N1-C6	2.69	122.24	118.10
1	1A	2605	PSU	O2-C2-N1	-2.69	120.02	122.79
32	1a	527	7MG	C5-C6-N1	2.69	115.67	110.94
1	2A	1942	5MC	O2-C2-N3	-2.67	118.12	122.33
54	2w	46	7MG	C5-C6-N1	2.67	115.64	110.94
56	2y	46	7MG	C5-C4-N9	-2.66	102.92	106.33
1	1A	2503	2MA	C5-N7-C8	2.66	107.63	103.45
1	2A	1962	5MC	C5-C4-N3	-2.66	119.03	121.75
56	2y	32	PSU	C6-C5-C4	-2.65	116.38	118.17
1	1A	2503	2MA	C4-N9-C8	2.64	108.51	105.74
55	1x	76	31H	OCN-CN-N	-2.64	118.49	125.32
1	2A	1942	5MC	C5-C4-N3	-2.62	119.07	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	1402	4OC	C6-C5-C4	2.62	120.15	117.00
54	1w	76	F3N	C5-C4-N9	2.61	108.66	105.81
55	1x	76	31H	C5-C4-N9	2.61	108.65	105.81
56	2y	37	MIA	C4-N9-C8	2.61	108.47	105.74
1	2A	2552	2MU	C2'-C1'-N1	-2.61	109.30	114.24
54	2w	37	MIA	C6-C5-N7	2.60	135.26	132.43
32	2a	527	7MG	C5-C6-N1	2.60	115.51	110.94
55	2x	76	31H	N3-C4-N9	2.60	131.59	127.17
32	2a	1402	4OC	C6-C5-C4	2.59	120.12	117.00
1	2A	2503	2MA	C5-N7-C8	2.58	107.51	103.45
32	1a	1207	2MG	N1-C2-N2	2.58	119.19	116.56
32	1a	1518	MA6	N3-C4-N9	2.57	131.54	127.17
54	1w	8	4SU	C1'-N1-C2	2.54	122.16	117.59
1	2A	2605	PSU	C6-C5-C4	-2.54	116.46	118.17
54	1w	37	MIA	C2-N1-C6	2.54	122.36	117.54
1	1A	1962	5MC	CM5-C5-C6	-2.53	119.42	122.85
32	1a	1400	5MC	C5-C4-N3	-2.52	119.17	121.75
1	2A	2503	2MA	C2-N1-C6	2.49	121.93	118.10
1	1A	1942	5MC	CM5-C5-C6	-2.49	119.48	122.85
55	2x	8	4SU	S4-C4-N3	-2.47	117.62	120.20
56	1y	46	7MG	C5-C6-N1	2.46	115.27	110.94
56	1y	37	MIA	C5-N7-C8	2.46	107.31	103.45
32	2a	1207	2MG	N2-C2-N3	-2.45	117.39	120.51
32	2a	1400	5MC	O2-C2-N3	-2.44	118.48	122.33
56	2y	46	7MG	C5-C6-N1	2.43	115.22	110.94
54	2w	76	F3N	N3-C4-N9	2.43	131.30	127.17
1	2A	1911	PSU	C5-C6-N1	-2.43	118.77	122.14
55	1x	8	4SU	O2-C2-N3	-2.42	117.03	121.49
54	1w	37	MIA	C5-N7-C8	2.40	107.22	103.45
1	1A	2552	2MU	O4-C4-C5	-2.39	121.04	125.16
1	2A	2605	PSU	O2-C2-N1	-2.39	120.32	122.79
55	2x	55	PSU	C5-C6-N1	-2.37	118.84	122.14
55	2x	8	4SU	O2-C2-N3	-2.37	117.11	121.49
1	1A	2058	MA6	N3-C4-N9	2.37	131.20	127.17
1	1A	2605	PSU	O2-C2-N3	-2.36	117.67	121.86
32	1a	967	5MC	C5-C4-N3	-2.36	119.34	121.75
32	2a	527	7MG	C5-C4-N9	-2.36	103.31	106.33
1	2A	2552	2MU	O4-C4-C5	-2.35	121.11	125.16
56	2y	55	PSU	O4'-C1'-C2'	2.34	108.39	105.15
54	1w	37	MIA	N3-C2-N1	-2.34	122.72	127.00
43	1l	92	0TD	OD1-CG-CB	-2.34	117.54	122.44
32	2a	1518	MA6	C4-C5-C6	2.34	118.33	115.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	2251	OMG	C4-C5-N7	-2.34	106.97	110.67
54	2w	46	7MG	C5-C4-N9	-2.32	103.36	106.33
32	1a	516	PSU	O4'-C1'-C2'	2.32	108.36	105.15
56	2y	8	4SU	C1'-N1-C2	2.32	121.76	117.59
32	1a	527	7MG	C5-C4-N9	-2.32	103.37	106.33
54	2w	46	7MG	O6-C6-C5	-2.32	121.94	127.62
55	2x	76	31H	C6-C5-C4	2.32	120.34	117.18
55	1x	76	31H	C6-C5-C4	2.31	120.33	117.18
55	1x	76	31H	C4-C5-N7	-2.30	107.96	110.58
32	1a	527	7MG	O6-C6-C5	-2.29	121.99	127.62
32	1a	1400	5MC	O2-C2-N3	-2.29	118.73	122.33
1	2A	2251	OMG	O6-C6-C5	-2.28	120.53	126.53
32	2a	966	M2G	C4-C5-N7	-2.27	107.07	110.67
56	1y	39	PSU	C6-C5-C4	-2.27	116.64	118.17
32	1a	1519	MA6	N3-C4-N9	2.26	131.02	127.17
54	2w	76	F3N	C3'-N3'-C	-2.26	119.75	123.20
54	2w	76	F3N	C6-C5-C4	2.26	120.27	117.18
1	1A	2503	2MA	C6-C5-N7	2.26	136.45	132.09
32	2a	967	5MC	CM5-C5-C6	-2.26	119.80	122.85
54	1w	76	F3N	C4-C5-N7	-2.25	108.01	110.58
54	1w	46	7MG	O6-C6-C5	-2.24	122.11	127.62
55	2x	76	31H	C4-C5-N7	-2.24	108.02	110.58
55	1x	32	5MC	O2-C2-N3	-2.24	118.80	122.33
1	1A	1915	5MU	C5M-C5-C4	2.23	121.17	118.78
54	1w	76	F3N	C6-C5-C4	2.23	120.22	117.18
1	2A	1915	5MU	O2-C2-N1	-2.22	119.90	122.80
54	2w	37	MIA	C4-N9-C8	2.21	108.06	105.74
32	2a	1402	4OC	O2-C2-N3	-2.20	118.85	122.33
32	2a	1207	2MG	N1-C2-N2	2.20	118.81	116.56
1	1A	2251	OMG	C4-C5-N7	-2.20	107.18	110.67
32	1a	1207	2MG	C8-N7-C5	2.20	108.18	104.26
1	1A	1915	5MU	O2-C2-N1	-2.20	119.94	122.80
54	1w	46	7MG	C5-C6-N1	2.19	114.80	110.94
54	2w	37	MIA	C2-N1-C6	2.19	121.69	117.54
1	2A	2503	2MA	N9-C8-N7	-2.19	110.83	113.94
1	1A	2251	OMG	O6-C6-C5	-2.19	120.76	126.53
32	1a	516	PSU	C5-C6-N1	-2.18	119.12	122.14
32	2a	966	M2G	O6-C6-C5	-2.17	120.80	126.53
1	1A	2503	2MA	N9-C8-N7	-2.16	110.86	113.94
1	2A	1917	PSU	C5-C6-N1	-2.16	119.14	122.14
54	2w	39	PSU	O2-C2-N1	-2.16	120.56	122.79
32	2a	516	PSU	C5-C6-N1	-2.16	119.14	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	1y	37	MIA	C4-N9-C8	2.15	107.99	105.74
54	2w	37	MIA	N3-C2-N1	-2.14	123.09	127.00
1	2A	2605	PSU	O2-C2-N3	-2.14	118.06	121.86
1	1A	1911	PSU	C5-C6-N1	-2.12	119.20	122.14
1	1A	2605	PSU	C5-C6-N1	-2.11	119.21	122.14
32	1a	967	5MC	C1'-N1-C6	-2.11	117.67	121.15
56	2y	39	PSU	C5-C6-N1	-2.11	119.21	122.14
55	2x	54	5MU	O2-C2-N1	-2.11	120.05	122.80
32	2a	1402	4OC	CM4-N4-C4	-2.11	118.33	122.45
32	2a	1404	5MC	O2-C2-N3	-2.10	119.01	122.33
54	2w	55	PSU	C6-C5-C4	-2.10	116.75	118.17
1	1A	2058	MA6	C6-C5-N7	2.10	136.79	133.43
32	2a	527	7MG	O6-C6-C5	-2.08	122.52	127.62
56	2y	46	7MG	O6-C6-C5	-2.08	122.52	127.62
32	1a	1207	2MG	N2-C2-N3	-2.07	117.87	120.51
32	2a	1519	MA6	C4-N9-C8	2.06	107.90	105.74
32	2a	1407	5MC	O2-C2-N3	-2.05	119.09	122.33
1	1A	2552	2MU	O4'-C1'-N1	2.05	113.01	108.36
54	2w	39	PSU	O4'-C1'-C2'	2.05	107.99	105.15
32	2a	1207	2MG	C2-N1-C6	-2.05	122.07	124.55
54	2w	76	F3N	C4-C5-N7	-2.05	108.24	110.58
32	2a	1518	MA6	C4-N9-C8	2.05	107.89	105.74
55	2x	32	5MC	CM5-C5-C6	-2.04	120.08	122.85
32	2a	1498	UR3	C3U-N3-C4	2.04	120.70	117.87
55	2x	32	5MC	C1'-N1-C6	-2.04	117.79	121.15
56	2y	37	MIA	C6-C5-N7	2.04	136.01	132.09
32	2a	516	PSU	O4'-C1'-C2'	2.03	107.96	105.15
32	1a	1407	5MC	N1-C2-N3	2.03	122.32	118.80
1	2A	1920	4OC	O2-C2-N3	-2.03	119.14	122.33
54	1w	39	PSU	C5-C6-N1	-2.02	119.34	122.14
1	1A	2251	OMG	C5-C6-N1	2.02	118.38	113.25
43	2l	92	0TD	OD1-CG-CB	-2.01	118.22	122.44
32	1a	1498	UR3	C3U-N3-C4	2.01	120.66	117.87
56	2y	46	7MG	C4-C5-N7	2.01	107.75	105.38
32	1a	1519	MA6	C6-C5-N7	2.01	136.64	133.43
32	2a	967	5MC	O2-C2-N3	-2.01	119.17	122.33
32	1a	1207	2MG	CM2-N2-C2	-2.00	119.35	123.65

There are no chirality outliers.

All (73) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1519	MA6	O4'-C4'-C5'-O5'
43	1l	92	0TD	O-C-CA-CB
43	1l	92	0TD	CA-CB-SB-CSB
43	1l	92	0TD	CG-CB-SB-CSB
32	2a	1519	MA6	O4'-C4'-C5'-O5'
43	2l	92	0TD	CA-CB-SB-CSB
43	2l	92	0TD	CG-CB-SB-CSB
55	2x	76	31H	C3'-C4'-C5'-O5'
54	1w	37	MIA	C12-C13-C14-C16
56	1y	46	7MG	C4'-C5'-O5'-P
56	2y	55	PSU	C2'-C1'-C5-C4
56	2y	55	PSU	C2'-C1'-C5-C6
55	1x	76	31H	C3'-C4'-C5'-O5'
32	2a	527	7MG	C3'-C4'-C5'-O5'
55	2x	76	31H	O4'-C4'-C5'-O5'
54	2w	46	7MG	O4'-C4'-C5'-O5'
54	2w	54	5MU	O4'-C4'-C5'-O5'
56	2y	37	MIA	C3'-C4'-C5'-O5'
56	1y	54	5MU	O4'-C4'-C5'-O5'
56	2y	55	PSU	C3'-C4'-C5'-O5'
54	2w	46	7MG	C3'-C4'-C5'-O5'
56	1y	8	4SU	C3'-C4'-C5'-O5'
55	1x	76	31H	CB-CG-SD-CE
32	1a	527	7MG	C3'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
56	1y	8	4SU	O4'-C4'-C5'-O5'
55	1x	76	31H	N-CA-CB-CG
32	2a	1400	5MC	C2'-C1'-N1-C6
56	2y	37	MIA	O4'-C4'-C5'-O5'
56	1y	54	5MU	C3'-C4'-C5'-O5'
55	1x	76	31H	O4'-C4'-C5'-O5'
32	2a	1404	5MC	O4'-C4'-C5'-O5'
54	2w	32	PSU	O4'-C4'-C5'-O5'
54	2w	54	5MU	C3'-C4'-C5'-O5'
32	2a	527	7MG	O4'-C4'-C5'-O5'
32	2a	1404	5MC	C3'-C4'-C5'-O5'
56	2y	32	PSU	O4'-C4'-C5'-O5'
56	2y	46	7MG	O4'-C4'-C5'-O5'
56	2y	55	PSU	O4'-C4'-C5'-O5'
54	2w	76	F3N	N-CA-CB-CG
54	1w	46	7MG	C4'-C5'-O5'-P
32	1a	527	7MG	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
56	2y	46	7MG	C2'-C1'-N9-C8
56	2y	46	7MG	O4'-C1'-N9-C4
32	2a	1400	5MC	O4'-C1'-N1-C6
1	2A	1917	PSU	O4'-C4'-C5'-O5'
55	1x	76	31H	C4'-C5'-O5'-P
32	2a	527	7MG	C4'-C5'-O5'-P
56	2y	37	MIA	C4'-C5'-O5'-P
32	2a	1400	5MC	C2'-C1'-N1-C2
56	2y	55	PSU	O4'-C1'-C5-C4
56	2y	46	7MG	C3'-C4'-C5'-O5'
32	1a	967	5MC	O4'-C4'-C5'-O5'
1	1A	2503	2MA	C4'-C5'-O5'-P
32	1a	527	7MG	C4'-C5'-O5'-P
32	1a	1519	MA6	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
32	2a	967	5MC	O4'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C1'-N1-C2
54	1w	37	MIA	C5-C6-N6-C12
54	2w	76	F3N	C-CA-CB-CG
1	2A	2251	OMG	C1'-C2'-O2'-CM2
54	2w	8	4SU	C3'-C4'-C5'-O5'
56	1y	8	4SU	C2'-C1'-N1-C6
55	2x	76	31H	C4'-C5'-O5'-P
56	2y	46	7MG	O4'-C1'-N9-C8
54	2w	32	PSU	C3'-C4'-C5'-O5'
56	2y	32	PSU	C3'-C4'-C5'-O5'
54	1w	46	7MG	C2'-C1'-N9-C8
54	2w	46	7MG	C2'-C1'-N9-C8
54	2w	37	MIA	C5-C6-N6-C12
32	2a	1402	4OC	O4'-C4'-C5'-O5'

There are no ring outliers.

53 monomers are involved in 78 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	2a	1402	4OC	3	0
32	2a	527	7MG	1	0
55	2x	32	5MC	1	0
54	1w	55	PSU	1	0
56	2y	39	PSU	1	0
55	1x	55	PSU	1	0
32	2a	1404	5MC	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
56	1y	54	5MU	1	0
54	2w	54	5MU	1	0
56	1y	8	4SU	1	0
1	1A	2503	2MA	1	0
54	2w	46	7MG	1	0
32	1a	1519	MA6	2	0
32	1a	1518	MA6	3	0
56	1y	37	MIA	1	0
43	2l	92	0TD	3	0
1	2A	2503	2MA	2	0
55	2x	76	31H	3	0
54	2w	8	4SU	1	0
55	1x	8	4SU	1	0
56	2y	37	MIA	1	0
32	2a	1518	MA6	3	0
32	1a	1404	5MC	1	0
32	1a	967	5MC	1	0
54	2w	76	F3N	5	0
1	2A	2552	2MU	2	0
32	2a	966	M2G	1	0
54	2w	39	PSU	2	0
56	1y	46	7MG	3	0
1	1A	2552	2MU	1	0
1	2A	2251	OMG	1	0
32	2a	967	5MC	1	0
1	1A	1920	4OC	1	0
56	2y	55	PSU	7	0
54	2w	55	PSU	1	0
32	1a	966	M2G	3	0
56	1y	39	PSU	1	0
1	2A	2058	MA6	1	0
54	1w	39	PSU	1	0
32	2a	1207	2MG	2	0
1	1A	1917	PSU	1	0
1	1A	1939	5MU	2	0
32	2a	1519	MA6	4	0
1	2A	1939	5MU	2	0
55	2x	55	PSU	1	0
32	1a	516	PSU	1	0
56	2y	46	7MG	1	0
1	2A	1915	5MU	1	0
54	1w	76	F3N	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
54	2w	37	MIA	1	0
54	1w	54	5MU	2	0
55	1x	76	31H	2	0
56	1y	55	PSU	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2832 ligands modelled in this entry, 2830 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
60	SF4	2d	303	35	0,12,12	-	-	-		
60	SF4	1d	302	35	0,12,12	-	-	-		

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
60	SF4	2d	303	35	-	-	0/6/5/5
60	SF4	1d	302	35	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
60	2d	303	SF4	1	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	2859/2915 (98%)	-0.42	127 (4%) 39 34	19, 36, 83, 94	0
1	2A	2788/2915 (95%)	0.08	135 (4%) 35 32	32, 53, 82, 93	0
2	1B	120/121 (99%)	-0.32	0 100 100	31, 47, 59, 79	0
2	2B	120/121 (99%)	0.54	0 100 100	56, 64, 72, 78	0
3	1D	275/276 (99%)	0.03	3 (1%) 78 74	21, 36, 50, 65	0
3	2D	275/276 (99%)	0.42	11 (4%) 42 38	29, 46, 57, 75	0
4	1E	204/206 (99%)	0.01	0 100 100	21, 40, 58, 63	0
4	2E	204/206 (99%)	0.58	4 (1%) 65 60	33, 54, 65, 73	0
5	1F	203/210 (96%)	0.12	3 (1%) 72 68	21, 42, 64, 71	0
5	2F	203/210 (96%)	0.70	8 (3%) 43 39	33, 59, 70, 77	0
6	1G	181/182 (99%)	0.61	7 (3%) 43 39	39, 54, 66, 75	0
6	2G	181/182 (99%)	1.15	17 (9%) 14 11	57, 66, 73, 81	0
7	1H	174/180 (96%)	0.49	4 (2%) 61 57	35, 51, 60, 68	0
7	2H	174/180 (96%)	1.42	31 (17%) 4 3	59, 72, 79, 82	0
8	1I	146/148 (98%)	0.84	3 (2%) 63 59	44, 64, 70, 73	0
8	2I	146/148 (98%)	1.24	19 (13%) 7 5	53, 65, 73, 76	0
9	1N	140/140 (100%)	-0.01	1 (0%) 84 81	25, 37, 54, 65	0
9	2N	140/140 (100%)	0.77	5 (3%) 46 42	43, 57, 69, 73	0
10	1O	122/122 (100%)	-0.04	0 100 100	26, 39, 54, 58	0
10	2O	122/122 (100%)	0.63	2 (1%) 70 66	43, 55, 64, 69	0
11	1P	149/150 (99%)	0.20	1 (0%) 84 81	19, 45, 64, 70	0
11	2P	149/150 (99%)	0.91	12 (8%) 18 14	36, 58, 71, 79	0
12	1Q	141/141 (100%)	0.06	0 100 100	24, 38, 51, 62	0
12	2Q	141/141 (100%)	0.90	10 (7%) 22 18	40, 58, 67, 71	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	-0.13	0 100 100	24, 34, 48, 53	0
13	2R	118/118 (100%)	0.50	5 (4%) 40 36	39, 49, 58, 65	0
14	1S	110/112 (98%)	0.34	0 100 100	36, 47, 57, 62	0
14	2S	110/112 (98%)	0.94	4 (3%) 46 42	51, 61, 68, 71	0
15	1T	131/146 (89%)	0.24	3 (2%) 61 57	32, 44, 64, 73	0
15	2T	131/146 (89%)	0.66	2 (1%) 72 68	46, 56, 66, 73	0
16	1U	116/118 (98%)	-0.31	0 100 100	20, 30, 44, 53	0
16	2U	116/118 (98%)	0.75	3 (2%) 57 53	41, 54, 66, 72	0
17	1V	101/101 (100%)	-0.10	1 (0%) 79 76	22, 39, 54, 63	0
17	2V	101/101 (100%)	0.81	3 (2%) 52 48	42, 62, 68, 76	0
18	1W	112/113 (99%)	-0.13	0 100 100	24, 32, 49, 77	0
18	2W	112/113 (99%)	0.43	2 (1%) 67 63	35, 48, 61, 78	0
19	1X	95/96 (98%)	0.08	1 (1%) 78 74	27, 40, 57, 68	0
19	2X	95/96 (98%)	0.77	8 (8%) 17 14	44, 55, 69, 73	0
20	1Y	107/110 (97%)	0.40	1 (0%) 81 78	35, 49, 62, 68	0
20	2Y	107/110 (97%)	1.12	10 (9%) 14 11	52, 63, 72, 79	0
21	1Z	154/206 (74%)	0.89	19 (12%) 8 6	37, 58, 74, 78	0
21	2Z	160/206 (77%)	1.47	40 (25%) 2 1	57, 69, 78, 84	0
22	10	83/85 (97%)	-0.02	0 100 100	27, 36, 47, 61	0
22	20	83/85 (97%)	0.85	8 (9%) 13 10	44, 54, 61, 69	0
23	11	97/98 (98%)	0.45	2 (2%) 63 59	30, 46, 64, 72	0
23	21	97/98 (98%)	0.78	4 (4%) 41 37	38, 52, 66, 74	0
24	12	70/72 (97%)	0.33	1 (1%) 73 69	33, 46, 57, 62	0
24	22	70/72 (97%)	0.82	1 (1%) 73 69	53, 63, 69, 75	0
25	13	59/60 (98%)	-0.16	0 100 100	23, 35, 54, 66	0
25	23	59/60 (98%)	0.82	1 (1%) 69 65	49, 57, 65, 69	0
26	14	69/71 (97%)	1.10	12 (17%) 4 3	50, 66, 74, 77	0
26	24	69/71 (97%)	1.53	16 (23%) 2 1	65, 72, 78, 80	0
27	15	59/60 (98%)	-0.18	1 (1%) 69 65	21, 32, 47, 58	0
27	25	59/60 (98%)	0.45	2 (3%) 48 44	33, 51, 62, 67	0
28	16	53/54 (98%)	0.13	0 100 100	32, 43, 52, 58	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/54 (98%)	0.71	1 (1%) 66 62	45, 53, 59, 62	0
29	17	48/49 (97%)	-0.24	0 100 100	21, 27, 44, 55	0
29	27	48/49 (97%)	0.24	2 (4%) 40 36	35, 40, 58, 63	0
30	18	64/65 (98%)	-0.03	0 100 100	28, 35, 41, 52	0
30	28	64/65 (98%)	0.66	1 (1%) 70 66	42, 51, 55, 59	0
31	19	37/37 (100%)	-0.14	0 100 100	27, 38, 48, 51	0
31	29	37/37 (100%)	0.82	1 (2%) 56 52	53, 60, 65, 67	0
32	1a	1488/1521 (97%)	0.23	30 (2%) 65 60	33, 58, 80, 89	0
32	2a	1491/1521 (98%)	0.48	41 (2%) 56 52	46, 67, 81, 93	0
33	1b	231/256 (90%)	1.14	24 (10%) 11 9	55, 66, 74, 78	0
33	2b	231/256 (90%)	1.41	44 (19%) 3 2	61, 72, 77, 82	0
34	1c	206/239 (86%)	0.83	8 (3%) 43 39	50, 61, 71, 77	0
34	2c	206/239 (86%)	1.35	35 (16%) 4 3	62, 71, 75, 81	0
35	1d	208/209 (99%)	0.94	14 (6%) 24 20	48, 60, 68, 72	0
35	2d	208/209 (99%)	0.97	11 (5%) 32 28	51, 62, 69, 75	0
36	1e	148/162 (91%)	0.63	4 (2%) 56 52	47, 57, 66, 67	0
36	2e	148/162 (91%)	1.14	13 (8%) 15 12	57, 65, 71, 75	0
37	1f	100/101 (99%)	0.64	1 (1%) 79 76	49, 58, 66, 67	0
37	2f	100/101 (99%)	0.70	3 (3%) 52 48	51, 61, 65, 67	0
38	1g	155/156 (99%)	0.91	15 (9%) 13 10	50, 62, 72, 80	0
38	2g	155/156 (99%)	1.34	22 (14%) 6 5	60, 69, 74, 77	0
39	1h	137/138 (99%)	0.78	5 (3%) 46 42	49, 59, 65, 68	0
39	2h	137/138 (99%)	1.10	12 (8%) 15 12	55, 66, 72, 78	0
40	1i	127/128 (99%)	1.18	11 (8%) 16 13	49, 65, 73, 75	0
40	2i	127/128 (99%)	1.61	40 (31%) 1 1	56, 71, 76, 80	0
41	1j	97/105 (92%)	1.17	10 (10%) 12 9	51, 66, 73, 76	0
41	2j	96/105 (91%)	1.72	28 (29%) 1 1	63, 73, 77, 80	0
42	1k	114/129 (88%)	0.79	2 (1%) 67 63	41, 59, 67, 73	0
42	2k	114/129 (88%)	0.97	10 (8%) 15 12	51, 64, 70, 76	0
43	1l	121/132 (91%)	0.52	2 (1%) 69 65	40, 48, 58, 64	0
43	2l	121/132 (91%)	0.92	8 (6%) 24 20	47, 58, 66, 74	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	123/126 (97%)	0.88	6 (4%) 35 31	50, 61, 66, 71	0
44	2m	122/126 (96%)	1.45	23 (18%) 3 2	59, 69, 74, 76	0
45	1n	60/61 (98%)	0.99	2 (3%) 49 45	48, 58, 63, 69	0
45	2n	60/61 (98%)	2.06	29 (48%) 0 0	66, 71, 76, 77	0
46	1o	88/89 (98%)	0.87	6 (6%) 23 20	43, 57, 65, 67	0
46	2o	88/89 (98%)	0.94	3 (3%) 48 44	54, 63, 70, 74	0
47	1p	82/88 (93%)	1.19	10 (12%) 8 6	53, 61, 65, 67	0
47	2p	82/88 (93%)	1.09	8 (9%) 13 10	54, 61, 67, 72	0
48	1q	99/105 (94%)	0.86	3 (3%) 52 48	50, 59, 66, 72	0
48	2q	99/105 (94%)	1.04	6 (6%) 27 23	56, 64, 71, 75	0
49	1r	68/88 (77%)	0.73	2 (2%) 53 50	50, 58, 68, 70	0
49	2r	68/88 (77%)	0.72	2 (2%) 53 50	56, 63, 71, 75	0
50	1s	83/93 (89%)	0.89	7 (8%) 17 14	53, 62, 67, 71	0
50	2s	83/93 (89%)	1.51	19 (22%) 2 1	64, 71, 76, 80	0
51	1t	96/106 (90%)	1.05	10 (10%) 11 9	52, 62, 69, 73	0
51	2t	96/106 (90%)	1.06	12 (12%) 8 6	55, 63, 72, 76	0
52	1u	23/27 (85%)	1.35	2 (8%) 16 13	54, 58, 65, 66	0
52	2u	23/27 (85%)	1.93	11 (47%) 0 0	65, 69, 71, 75	0
53	1v	13/24 (54%)	0.54	1 (7%) 19 16	45, 48, 77, 86	0
53	2v	13/24 (54%)	1.49	4 (30%) 1 1	56, 64, 85, 87	0
54	1w	66/76 (86%)	1.07	9 (13%) 7 5	25, 73, 83, 87	0
54	2w	64/76 (84%)	1.19	9 (14%) 6 5	44, 78, 85, 88	0
55	1x	71/77 (92%)	0.16	0 100 100	24, 55, 72, 75	0
55	2x	71/77 (92%)	0.42	1 (1%) 73 69	39, 65, 76, 83	0
56	1y	67/76 (88%)	1.57	14 (20%) 2 2	56, 83, 88, 90	0
56	2y	66/76 (86%)	1.75	20 (30%) 1 1	66, 86, 90, 92	0
All	All	20869/21748 (95%)	0.44	1170 (5%) 30 26	19, 57, 77, 94	0

All (1170) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1A	652(V)	C	7.8
1	1A	652(U)	G	7.0

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Mol	Chain	Res	Type	RSRZ
1	1A	654	A	6.7
1	2A	2146	C	6.6
1	1A	652(C)	G	6.6
1	2A	652(U)	G	6.6
1	1A	653	A	6.4
1	2A	2802	G	6.3
1	1A	652(S)	C	6.1
1	2A	2111	C	6.1
54	1w	70	G	5.9
23	21	2	SER	5.8
1	2A	2144	U	5.7
1	2A	2112	G	5.7
1	1A	652(T)	C	5.6
1	2A	2113	U	5.5
45	2n	2	ALA	5.5
1	2A	653	A	5.5
23	11	2	SER	5.4
1	2A	2143	C	5.3
1	2A	652(C)	G	5.3
1	1A	652(D)	C	5.2
1	1A	884	C	5.1
1	2A	652(V)	C	5.0
1	2A	2145	C	5.0
21	1Z	141	VAL	5.0
45	1n	2	ALA	5.0
1	2A	2155	G	5.0
33	2b	165	VAL	4.9
38	2g	80	VAL	4.8
26	24	49	PHE	4.8
1	2A	883	G	4.8
54	1w	71	G	4.8
44	2m	124	PRO	4.7
40	2i	14	VAL	4.7
1	2A	654	A	4.7
1	2A	2147	G	4.7
1	2A	2804	C	4.7
1	1A	2143	C	4.6
1	1A	2803	C	4.6
1	2A	2803	C	4.6
38	2g	83	ALA	4.6
44	2m	123	ALA	4.6
34	2c	2	GLY	4.5

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Mol	Chain	Res	Type	RSRZ
32	1a	1257	U	4.5
1	1A	2140	C	4.5
1	2A	1509	C	4.5
1	1A	2130	U	4.5
1	2A	882	G	4.4
1	2A	652(T)	C	4.4
32	2a	1030	C	4.4
38	1g	81	GLY	4.4
1	1A	2141	G	4.4
21	1Z	146	ILE	4.4
38	2g	84	ASN	4.4
54	2w	71	G	4.3
51	1t	103	GLY	4.3
1	2A	884	C	4.3
1	2A	2110	G	4.2
1	2A	2142	C	4.2
1	1A	652(E)	G	4.2
38	1g	85	TYR	4.2
1	2A	2141	G	4.2
38	1g	80	VAL	4.2
38	2g	82	GLY	4.2
54	2w	72	C	4.2
52	2u	16	GLY	4.1
1	1A	2142	C	4.1
1	2A	896	A	4.1
1	2A	2793	G	4.1
32	2a	1030(A)	G	4.1
41	2j	65	LEU	4.1
1	2A	229	A	4.1
1	1A	652(F)	G	4.1
1	1A	885	C	4.0
32	2a	1257	U	4.0
1	2A	2115	G	4.0
32	2a	1032	G	4.0
1	1A	896	A	4.0
54	1w	72	C	4.0
50	2s	13	ASP	4.0
45	2n	39	LEU	4.0
1	1A	1064	C	4.0
1	2A	652(D)	C	4.0
38	1g	82	GLY	4.0
38	2g	16	LEU	4.0

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Mol	Chain	Res	Type	RSRZ
1	2A	2148	G	3.9
38	2g	81	GLY	3.9
11	2P	39	LYS	3.9
34	2c	87	LEU	3.9
26	24	66	SER	3.9
45	2n	38	GLY	3.8
3	2D	276	LYS	3.8
45	2n	21	TYR	3.8
1	2A	2182	G	3.8
1	2A	2183	C	3.8
41	2j	74	ILE	3.8
33	1b	9	GLU	3.8
1	2A	2801(A)	A	3.8
53	2v	14	A	3.8
3	1D	276	LYS	3.8
51	2t	47	GLY	3.8
1	2A	2133	G	3.8
34	2c	198	VAL	3.7
21	2Z	150	LEU	3.7
26	14	32	TYR	3.7
50	2s	80	TYR	3.7
26	24	65	ASP	3.7
1	1A	2145	C	3.7
33	2b	237	ALA	3.7
5	1F	208	GLY	3.7
34	1c	207	VAL	3.7
33	1b	232	PRO	3.7
1	2A	2139	C	3.7
1	2A	2174	C	3.7
1	1A	2112	G	3.7
1	1A	2133	G	3.7
1	1A	2132	U	3.7
8	2I	146	ALA	3.6
1	1A	2131	G	3.6
44	2m	122	LYS	3.6
1	2A	2140	C	3.6
45	2n	6	LEU	3.6
1	2A	2109	U	3.6
1	2A	2149	G	3.6
48	1q	36	ILE	3.6
32	2a	1532	U	3.6
21	2Z	149	SER	3.6

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Mol	Chain	Res	Type	RSRZ
1	1A	2117	A	3.6
1	2A	2169	A	3.6
33	1b	237	ALA	3.6
36	2e	84	PHE	3.6
50	2s	2	PRO	3.6
1	2A	2154	G	3.5
41	2j	75	ILE	3.5
1	2A	2794	C	3.5
34	2c	75	VAL	3.5
45	2n	25	VAL	3.5
1	1A	2114	A	3.5
43	2l	28	LYS	3.5
1	2A	2167	U	3.5
33	2b	121	LEU	3.5
44	1m	124	PRO	3.5
21	2Z	146	ILE	3.5
38	1g	4	ARG	3.4
44	2m	102	ARG	3.4
1	1A	2146	C	3.4
20	2Y	55	TYR	3.4
33	2b	17	PHE	3.4
32	1a	1447	A	3.4
32	2a	1030(D)	A	3.4
1	2A	2160	G	3.4
32	2a	1033	G	3.4
42	2k	76	GLY	3.4
15	2T	131	ALA	3.4
1	1A	2138	C	3.4
32	2a	1030(B)	C	3.4
45	2n	35	ARG	3.4
47	2p	82	GLN	3.4
53	2v	13	A	3.4
26	24	56	VAL	3.4
33	1b	229	VAL	3.4
1	1A	886	C	3.4
1	2A	2896	C	3.4
46	1o	87	ILE	3.4
21	1Z	149	SER	3.4
1	1A	2792	G	3.3
1	2A	2805	G	3.3
26	24	63	TYR	3.3
54	2w	70	G	3.3

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Mol	Chain	Res	Type	RSRZ
34	2c	195	VAL	3.3
32	1a	1531	A	3.3
36	2e	125	SER	3.3
6	2G	146	TYR	3.3
1	1A	1078	U	3.3
1	2A	2168	G	3.3
34	2c	182	ILE	3.3
40	2i	13	ALA	3.3
51	1t	59	ALA	3.3
6	1G	146	TYR	3.3
1	1A	2793	G	3.3
14	2S	58	LEU	3.3
33	1b	10	LEU	3.3
34	2c	100	ALA	3.3
32	2a	1531	A	3.3
53	2v	12	A	3.3
1	1A	271(K)	U	3.3
39	1h	2	LEU	3.3
1	1A	2115	G	3.3
1	2A	2181	G	3.3
41	2j	34	VAL	3.3
35	2d	164	ALA	3.3
1	1A	2805	G	3.2
1	2A	652(B)	A	3.2
41	2j	79	ARG	3.2
7	1H	21	PRO	3.2
33	1b	11	LEU	3.2
51	2t	99	LEU	3.2
19	2X	91	ALA	3.2
1	2A	2159	G	3.2
26	14	17	GLY	3.2
47	2p	48	TRP	3.2
1	1A	1509	C	3.2
1	2A	2128	C	3.2
1	2A	2138	C	3.2
21	2Z	144	LEU	3.2
41	2j	85	LEU	3.2
1	2A	2119	A	3.2
33	2b	236	TYR	3.2
18	2W	112	GLY	3.2
50	2s	79	THR	3.2
7	2H	2	SER	3.1

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Mol	Chain	Res	Type	RSRZ
33	2b	187	LEU	3.1
44	2m	106	ASN	3.1
1	1A	2182	G	3.1
1	2A	2807	G	3.1
51	2t	103	GLY	3.1
56	2y	36	A	3.1
7	2H	36	PRO	3.1
33	2b	11	LEU	3.1
1	1A	888	C	3.1
19	2X	67	GLY	3.1
44	2m	100	GLY	3.1
1	2A	881	G	3.1
1	2A	2127	G	3.1
55	2x	47	U	3.1
40	1i	2	GLU	3.1
34	2c	154	SER	3.1
1	1A	897	C	3.1
26	14	58	ARG	3.1
33	2b	7	VAL	3.1
32	2a	1002	G	3.1
32	2a	1031	G	3.1
32	2a	1202	G	3.1
33	2b	122	PHE	3.1
1	1A	2111	C	3.1
1	1A	2136	C	3.1
44	2m	105	THR	3.0
33	2b	123	ALA	3.0
45	2n	5	ALA	3.0
45	2n	20	ALA	3.0
1	1A	1094	U	3.0
1	1A	883	G	3.0
45	2n	53	LEU	3.0
51	1t	13	LEU	3.0
35	2d	154	ASN	3.0
49	1r	86	VAL	3.0
47	1p	82	GLN	3.0
41	2j	42	THR	3.0
21	1Z	148	ASP	3.0
33	1b	17	PHE	3.0
1	2A	2123	G	3.0
32	1a	1030(A)	G	3.0
32	2a	1030(C)	G	3.0

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Mol	Chain	Res	Type	RSRZ
56	1y	15	G	3.0
40	2i	86	VAL	3.0
44	2m	72	ALA	3.0
33	1b	40	HIS	3.0
1	2A	2129	C	3.0
1	2A	2118	U	3.0
1	2A	2104	G	3.0
1	2A	2162	G	3.0
56	2y	34	G	3.0
34	1c	124	ILE	3.0
35	2d	5	ILE	3.0
8	2I	86	THR	3.0
52	2u	14	TRP	3.0
35	1d	138	TYR	3.0
40	2i	36	TYR	3.0
1	1A	2108	C	3.0
21	1Z	150	LEU	3.0
40	2i	102	LEU	3.0
56	2y	35	A	3.0
34	2c	13	GLY	3.0
41	2j	10	GLY	3.0
21	2Z	168	GLU	2.9
42	2k	14	VAL	2.9
56	2y	6	G	2.9
52	1u	24	ARG	2.9
34	2c	201	TYR	2.9
1	2A	885	C	2.9
26	24	51	ASP	2.9
21	2Z	166	SER	2.9
53	2v	24	A	2.9
21	2Z	171	ILE	2.9
21	1Z	51	ALA	2.9
1	1A	1063	G	2.9
1	2A	2116	G	2.9
1	2A	2166	G	2.9
29	27	47	ARG	2.9
40	2i	119	ALA	2.9
32	1a	1030(C)	G	2.9
44	2m	104	ARG	2.9
38	2g	156	TRP	2.9
6	2G	49	ASP	2.9
1	1A	2174	C	2.9

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Mol	Chain	Res	Type	RSRZ
1	1A	2804	C	2.9
1	2A	897	C	2.9
19	2X	94	GLY	2.9
1	1A	887	A	2.9
1	1A	2801(A)	A	2.9
20	2Y	45	VAL	2.9
38	1g	153	HIS	2.9
4	2E	204	ALA	2.9
33	2b	120	ALA	2.9
3	2D	37	LEU	2.9
33	2b	215	LEU	2.9
39	2h	112	LEU	2.9
1	1A	2156	G	2.9
1	1A	2159	G	2.9
1	2A	2156	G	2.9
32	2a	1034	G	2.9
32	2a	1224	G	2.9
32	1a	204	U	2.9
32	2a	204	U	2.9
56	2y	33	U	2.9
1	1A	1075	C	2.9
1	1A	2135	A	2.9
1	2A	2170	A	2.9
10	2O	57	VAL	2.9
26	14	56	VAL	2.9
33	1b	7	VAL	2.9
33	2b	136	VAL	2.9
54	2w	73	A	2.9
38	1g	156	TRP	2.9
1	1A	1059	G	2.9
1	1A	2151	G	2.9
1	1A	1081	U	2.8
1	1A	2113	U	2.8
33	2b	71	VAL	2.8
1	2A	2173	A	2.8
20	2Y	105	ALA	2.8
32	1a	344	A	2.8
47	2p	74	LEU	2.8
50	2s	29	ARG	2.8
52	2u	4	GLY	2.8
1	2A	11	G	2.8
1	2A	880	G	2.8

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Mol	Chain	Res	Type	RSRZ
1	2A	892	G	2.8
1	2A	2153	G	2.8
6	2G	76	SER	2.8
7	2H	24	VAL	2.8
32	1a	1532	U	2.8
1	1A	2129	C	2.8
32	1a	1030	C	2.8
38	1g	83	ALA	2.8
38	2g	85	TYR	2.8
42	2k	75	TYR	2.8
21	1Z	166	SER	2.8
9	2N	9	VAL	2.8
1	2A	2100	G	2.8
1	2A	2897	U	2.8
7	2H	7	LEU	2.8
1	2A	894	C	2.8
8	2I	103	ARG	2.8
14	2S	3	ARG	2.8
19	2X	68	ARG	2.8
7	2H	48	GLY	2.8
52	2u	11	GLY	2.8
36	2e	67	VAL	2.8
45	2n	14	PRO	2.8
56	1y	20	U	2.8
56	2y	19	G	2.8
22	20	68	GLU	2.8
48	2q	100	LYS	2.8
51	1t	74	LYS	2.8
54	2w	2	C	2.8
7	2H	141	VAL	2.7
36	2e	21	ALA	2.7
41	2j	32	ALA	2.7
42	1k	89	ALA	2.7
1	2A	1026	U	2.7
7	2H	41	MET	2.7
1	1A	882	G	2.7
1	1A	2158	A	2.7
1	2A	2188	C	2.7
21	2Z	143	GLY	2.7
45	2n	28	GLY	2.7
35	2d	4	TYR	2.7
50	2s	9	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
6	2G	139	LEU	2.7
12	2Q	110	THR	2.7
45	2n	22	THR	2.7
8	2I	82	ARG	2.7
15	2T	111	ARG	2.7
40	1i	66	ARG	2.7
43	2l	19	ARG	2.7
45	2n	3	ARG	2.7
1	2A	2894	G	2.7
32	1a	630	G	2.7
40	2i	100	GLY	2.7
50	2s	82	GLY	2.7
1	1A	889	C	2.7
1	2A	2105	C	2.7
1	2A	2117	A	2.7
1	2A	2137	C	2.7
32	1a	1286	A	2.7
32	2a	1004	A	2.7
56	1y	75	C	2.7
33	1b	236	TYR	2.7
38	1g	154	TYR	2.7
43	2l	64	TYR	2.7
50	2s	15	LEU	2.7
21	2Z	147	GLY	2.7
26	14	64	GLY	2.7
21	2Z	136	PHE	2.7
41	2j	41	PRO	2.7
1	1A	1068	G	2.7
1	1A	898	C	2.7
1	1A	2896	C	2.7
1	2A	899	A	2.7
1	2A	1040	C	2.7
1	2A	2175	C	2.7
32	2a	1027	C	2.7
32	2a	1035	A	2.7
32	2a	1037	C	2.7
32	2a	1249	C	2.7
38	1g	84	ASN	2.7
6	2G	3	LEU	2.7
6	2G	149	VAL	2.7
7	2H	60	ARG	2.7
33	2b	21	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
41	2j	88	LEU	2.7
33	2b	33	TYR	2.7
43	1l	64	TYR	2.7
5	2F	128	ALA	2.7
33	2b	77	ALA	2.7
41	1j	32	ALA	2.7
39	2h	70	GLN	2.7
1	1A	895	U	2.7
34	2c	155	GLY	2.6
35	1d	2	GLY	2.6
40	2i	67	GLY	2.6
35	1d	126	ILE	2.6
51	2t	41	ILE	2.6
43	2l	39	VAL	2.6
50	2s	30	LEU	2.6
53	1v	12	A	2.6
54	1w	69	G	2.6
20	2Y	35	TYR	2.6
51	1t	95	ALA	2.6
33	1b	202	PRO	2.6
47	1p	19	ILE	2.6
17	1V	1	MET	2.6
6	2G	43	LEU	2.6
20	2Y	90	LEU	2.6
22	20	12	ASN	2.6
21	2Z	74	VAL	2.6
26	24	50	VAL	2.6
40	2i	109	VAL	2.6
50	2s	45	VAL	2.6
41	1j	33	GLN	2.6
54	2w	67	C	2.6
1	1A	2152	G	2.6
1	2A	2157	G	2.6
26	14	63	TYR	2.6
32	2a	1117	G	2.6
3	2D	275	LYS	2.6
33	2b	132	LYS	2.6
1	1A	1066	U	2.6
7	2H	29	PRO	2.6
7	2H	59	ARG	2.6
7	2H	128	PRO	2.6
33	2b	185	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
46	2o	88	ARG	2.6
26	14	49	PHE	2.6
36	2e	119	LEU	2.6
1	1A	1077	A	2.6
1	1A	1088	A	2.6
1	1A	2119	A	2.6
1	2A	898	C	2.6
1	2A	1536	C	2.6
44	2m	121	LYS	2.6
1	1A	2157	G	2.6
1	1A	2165	G	2.6
1	2A	2165	G	2.6
1	2A	2893	G	2.6
56	1y	18	G	2.6
7	2H	39	PRO	2.6
40	2i	9	ARG	2.6
47	1p	1	MET	2.6
7	2H	45	VAL	2.6
43	2l	18	VAL	2.6
33	2b	29	ALA	2.6
38	1g	2	ALA	2.6
43	2l	56	ALA	2.6
1	2A	2171	A	2.6
1	1A	2139	C	2.5
1	1A	2794	C	2.5
1	2A	2108	C	2.5
52	2u	22	ARG	2.5
17	2V	50	PRO	2.5
33	1b	227	GLY	2.5
47	2p	10	GLY	2.5
1	1A	2160	G	2.5
1	2A	652(E)	G	2.5
1	2A	2131	G	2.5
1	2A	2792	G	2.5
6	2G	88	ILE	2.5
35	2d	146	ILE	2.5
54	1w	1	G	2.5
21	1Z	104	PHE	2.5
1	2A	2895	U	2.5
8	2I	114	LEU	2.5
33	2b	118	LEU	2.5
35	1d	198	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
3	2D	156	ALA	2.5
7	1H	2	SER	2.5
47	2p	69	THR	2.5
48	2q	99	SER	2.5
1	1A	2169	A	2.5
40	2i	62	TYR	2.5
33	1b	131	PRO	2.5
36	2e	29	GLY	2.5
50	2s	76	PRO	2.5
41	2j	82	ILE	2.5
44	2m	64	TRP	2.5
47	1p	48	TRP	2.5
1	1A	2190	G	2.5
1	2A	2125	G	2.5
11	2P	99	LEU	2.5
45	2n	37	PHE	2.5
56	1y	19	G	2.5
56	2y	15	G	2.5
1	1A	2144	U	2.5
27	15	60	VAL	2.5
47	1p	2	VAL	2.5
51	2t	9	ASN	2.5
21	2Z	21	ALA	2.5
38	2g	40	ALA	2.5
21	1Z	1	MET	2.5
1	2A	2126	A	2.5
11	2P	109	GLY	2.5
22	20	13	GLY	2.5
33	1b	228	GLY	2.5
8	2I	85	GLU	2.5
1	1A	2107	C	2.5
1	2A	1041	C	2.5
11	1P	99	LEU	2.5
11	2P	45	LEU	2.5
12	2Q	104	PHE	2.5
21	1Z	136	PHE	2.5
35	1d	194	LEU	2.5
39	2h	2	LEU	2.5
1	1A	1060	U	2.5
33	1b	136	VAL	2.5
40	2i	65	VAL	2.5
46	2o	60	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
54	1w	44	G	2.5
33	2b	209	ARG	2.5
40	2i	10	ARG	2.5
26	24	18	CYS	2.5
23	21	68	PRO	2.5
11	2P	93	GLY	2.5
46	1o	86	GLY	2.5
7	2H	9	ILE	2.5
47	1p	68	ASP	2.5
1	1A	1086	A	2.5
21	2Z	91	LEU	2.5
22	20	84	LEU	2.5
37	2f	21	LEU	2.5
41	2j	8	LEU	2.5
26	24	60	GLN	2.5
33	2b	152	PHE	2.5
32	1a	1029	C	2.5
32	1a	1030(B)	C	2.5
35	1d	140	VAL	2.5
41	2j	44	VAL	2.5
1	2A	1113	U	2.5
12	2Q	10	ARG	2.5
5	2F	21	ALA	2.5
11	2P	89	ALA	2.5
38	2g	25	ALA	2.5
40	1i	13	ALA	2.5
44	1m	123	ALA	2.5
27	25	29	THR	2.5
1	1A	1062	G	2.5
1	2A	2120	G	2.5
45	2n	40	CYS	2.4
19	1X	94	GLY	2.4
26	24	30	GLU	2.4
34	2c	48	TYR	2.4
34	2c	77	ILE	2.4
44	2m	31	LYS	2.4
52	2u	13	ILE	2.4
8	1I	12	LEU	2.4
47	1p	49	LEU	2.4
1	1A	2790	A	2.4
1	2A	878	A	2.4
21	2Z	121	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
26	14	59	PHE	2.4
7	2H	19	VAL	2.4
38	2g	23	VAL	2.4
39	2h	97	VAL	2.4
1	1A	2189	U	2.4
6	1G	50	ALA	2.4
34	2c	129	ALA	2.4
49	2r	24	ALA	2.4
52	2u	8	THR	2.4
51	2t	98	PRO	2.4
1	1A	879	G	2.4
1	1A	2116	G	2.4
1	1A	2154	G	2.4
1	1A	2155	G	2.4
1	2A	2124	G	2.4
50	1s	13	ASP	2.4
4	2E	52	LEU	2.4
16	2U	109	LEU	2.4
33	2b	221	LEU	2.4
40	2i	19	LEU	2.4
50	2s	71	LEU	2.4
12	2Q	6	ARG	2.4
21	2Z	104	PHE	2.4
38	2g	5	ARG	2.4
42	2k	126	ARG	2.4
1	1A	1508	A	2.4
8	1I	107	VAL	2.4
21	1Z	105	VAL	2.4
20	2Y	1	MET	2.4
1	1A	2137	C	2.4
7	2H	20	ALA	2.4
8	2I	53	ALA	2.4
11	2P	103	ALA	2.4
32	1a	1027	C	2.4
49	1r	24	ALA	2.4
56	2y	49	C	2.4
1	1A	1065	U	2.4
1	1A	2897	U	2.4
1	2A	2132	U	2.4
32	2a	202	U	2.4
5	2F	127	GLU	2.4
37	2f	93	SER	2.4

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Mol	Chain	Res	Type	RSRZ
40	2i	126	SER	2.4
52	2u	23	PRO	2.4
35	2d	167	GLY	2.4
36	1e	85	GLY	2.4
41	1j	93	GLY	2.4
33	2b	162	ILE	2.4
41	2j	38	ILE	2.4
1	1A	1087	G	2.4
1	1A	1089	G	2.4
1	1A	2153	G	2.4
32	2a	1003	G	2.4
39	1h	39	LEU	2.4
45	2n	44	LEU	2.4
56	1y	1	G	2.4
38	1g	78	ARG	2.4
41	2j	62	HIS	2.4
22	20	69	PHE	2.4
11	2P	83	VAL	2.4
19	2X	1	MET	2.4
29	27	46	VAL	2.4
36	2e	90	VAL	2.4
6	1G	73	ALA	2.4
40	2i	61	ALA	2.4
45	2n	13	THR	2.4
1	1A	2178	C	2.4
32	1a	1000	U	2.4
15	1T	37	GLY	2.4
34	2c	74	GLY	2.4
7	2H	72	ILE	2.4
44	2m	39	ILE	2.4
34	2c	47	LEU	2.4
42	2k	13	GLN	2.4
52	2u	15	ARG	2.4
1	1A	1058	G	2.4
1	1A	1176	G	2.4
21	2Z	3	TYR	2.4
21	2Z	9	TYR	2.4
8	2I	1	MET	2.4
32	1a	1032	G	2.4
44	2m	21	TYR	2.4
54	2w	15	G	2.4
3	2D	38	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
1	1A	1096	A	2.4
21	2Z	172	ALA	2.4
35	1d	111	ALA	2.4
45	2n	10	ALA	2.4
6	2G	142	PRO	2.3
45	2n	61	TRP	2.4
38	2g	77	SER	2.3
1	2A	2130	U	2.3
6	1G	21	ARG	2.3
33	2b	16	HIS	2.3
34	2c	12	LEU	2.3
40	1i	19	LEU	2.3
41	1j	4	ILE	2.3
44	2m	9	ILE	2.3
48	2q	43	LEU	2.3
45	2n	34	TYR	2.3
41	2j	49	VAL	2.3
45	2n	4	LYS	2.3
1	1A	2802	G	2.3
1	2A	2101	G	2.3
6	2G	50	ALA	2.3
15	1T	131	ALA	2.3
21	2Z	169	GLU	2.3
33	1b	188	ALA	2.3
5	2F	14	PRO	2.3
41	2j	91	PRO	2.3
9	2N	73	THR	2.3
54	1w	73	A	2.3
56	2y	7	A	2.3
7	1H	174	GLY	2.3
12	2Q	19	GLY	2.3
52	1u	9	ARG	2.3
1	2A	2150	U	2.3
24	22	70	GLN	2.3
32	1a	841	U	2.3
7	2H	136	ILE	2.3
36	2e	20	GLN	2.3
41	2j	23	ILE	2.3
41	2j	33	GLN	2.3
33	2b	154	LEU	2.3
39	2h	39	LEU	2.3
42	2k	32	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
44	1m	90	LEU	2.3
45	2n	7	ILE	2.3
50	1s	71	LEU	2.3
1	2A	2185	C	2.3
32	1a	1028	C	2.3
56	1y	13	C	2.3
56	1y	74	C	2.3
20	2Y	5	MET	2.3
7	2H	49	VAL	2.3
33	1b	165	VAL	2.3
33	1b	230	VAL	2.3
34	2c	184	TYR	2.3
44	1m	21	TYR	2.3
50	2s	11	VAL	2.3
7	2H	165	ALA	2.3
20	2Y	53	PRO	2.3
40	2i	94	ALA	2.3
44	1m	2	ALA	2.3
45	2n	30	ALA	2.3
1	2A	1042	G	2.3
1	2A	2318	G	2.3
32	1a	1024	G	2.3
32	1a	1036	G	2.3
44	2m	103	THR	2.3
1	1A	2170	A	2.3
8	2I	84	GLY	2.3
11	2P	44	GLY	2.3
34	2c	124	ILE	2.3
40	1i	91	ASP	2.3
3	1D	275	LYS	2.3
32	2a	1029	C	2.3
33	2b	74	LYS	2.3
12	2Q	32	TYR	2.3
21	1Z	165	VAL	2.3
25	23	56	VAL	2.3
33	1b	15	VAL	2.3
21	2Z	152	ALA	2.3
21	2Z	159	PRO	2.3
21	2Z	167	PRO	2.3
30	28	10	ALA	2.3
34	1c	61	ALA	2.3
40	2i	82	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
41	2j	77	PRO	2.3
21	2Z	170	THR	2.3
8	2I	13	GLY	2.3
1	1A	2104	G	2.3
1	2A	1039	G	2.3
1	2A	2151	G	2.3
5	2F	181	LEU	2.3
8	2I	68	LEU	2.3
19	2X	92	LEU	2.3
21	1Z	125	LEU	2.3
32	1a	78	G	2.3
1	1A	548	A	2.3
32	1a	1030(D)	A	2.3
32	2a	1447	A	2.3
33	1b	214	ILE	2.3
40	2i	63	ILE	2.3
46	2o	3	ILE	2.3
35	2d	165	MET	2.3
56	1y	35	A	2.3
32	2a	1358	U	2.3
1	2A	2103	C	2.3
24	12	37	PHE	2.3
32	2a	999	C	2.3
35	1d	110	PHE	2.3
41	2j	54	PHE	2.3
42	2k	125	PHE	2.3
21	2Z	105	VAL	2.3
31	29	16	VAL	2.3
33	2b	93	VAL	2.3
36	1e	69	VAL	2.3
39	2h	137	VAL	2.3
40	2i	108	VAL	2.3
26	24	67	TYR	2.3
35	2d	20	TYR	2.3
40	2i	104	ARG	2.3
46	1o	69	TYR	2.3
47	1p	24	ALA	2.2
4	2E	10	GLY	2.2
43	2l	63	GLY	2.2
51	1t	47	GLY	2.2
8	2I	138	ILE	2.2
10	2O	28	SER	2.2

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Mol	Chain	Res	Type	RSRZ
34	2c	175	LEU	2.2
35	1d	101	LEU	2.2
41	1j	57	LYS	2.2
47	2p	60	LEU	2.2
1	1A	1098	A	2.2
1	2A	2629	A	2.2
40	2i	105	ASP	2.2
56	1y	58	A	2.2
56	2y	14	A	2.2
1	1A	2110	G	2.2
1	1A	2166	G	2.2
32	2a	1026	G	2.2
1	1A	1097	U	2.2
32	2a	1159	U	2.2
1	2A	2164	C	2.2
1	2A	2177	C	2.2
1	2A	2789	C	2.2
5	1F	14	PRO	2.2
7	2H	15	VAL	2.2
21	1Z	139	VAL	2.2
44	2m	11	ARG	2.2
45	2n	26	ARG	2.2
32	2a	1260	C	2.2
8	2I	46	ALA	2.2
12	2Q	53	ALA	2.2
34	2c	102	ASN	2.2
40	2i	52	ALA	2.2
40	2i	76	ALA	2.2
26	24	32	TYR	2.2
34	2c	23	TYR	2.2
40	2i	125	TYR	2.2
40	2i	7	THR	2.2
3	2D	35	LYS	2.2
34	2c	197	GLY	2.2
3	2D	155	LEU	2.2
21	2Z	102	LEU	2.2
41	2j	40	LEU	2.2
21	2Z	129	SER	2.2
21	2Z	153	SER	2.2
33	1b	233	SER	2.2
48	1q	90	ILE	2.2
1	1A	1057	A	2.2

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Mol	Chain	Res	Type	RSRZ
1	1A	1070	A	2.2
1	1A	1095	A	2.2
44	2m	58	GLU	2.2
1	1A	2150	U	2.2
32	1a	1025	U	2.2
54	2w	47	U	2.2
1	2A	1533	G	2.2
32	1a	927	G	2.2
32	1a	1353	G	2.2
9	1N	9	VAL	2.2
9	2N	11	PRO	2.2
11	2P	125	VAL	2.2
20	2Y	42	VAL	2.2
21	2Z	71	VAL	2.2
39	1h	61	VAL	2.2
39	2h	101	PRO	2.2
3	2D	203	ASN	2.2
5	2F	166	ALA	2.2
6	2G	169	ALA	2.2
7	2H	150	ALA	2.2
8	1I	49	ALA	2.2
8	2I	83	ALA	2.2
15	1T	130	ALA	2.2
33	2b	37	ASN	2.2
41	2j	26	ALA	2.2
42	2k	19	ALA	2.2
43	1l	126	LYS	2.2
45	2n	9	LYS	2.2
41	1j	100	THR	2.2
47	1p	22	THR	2.2
50	1s	79	THR	2.2
3	1D	114	GLY	2.2
21	2Z	76	LEU	2.2
23	21	98	LEU	2.2
26	14	4	GLY	2.2
35	2d	19	LEU	2.2
40	1i	102	LEU	2.2
20	2Y	38	ILE	2.2
21	1Z	171	ILE	2.2
33	2b	201	ILE	2.2
41	1j	74	ILE	2.2
48	1q	97	SER	2.2

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Mol	Chain	Res	Type	RSRZ
6	2G	29	TRP	2.2
22	20	82	ARG	2.2
34	1c	190	ARG	2.2
35	1d	173	TRP	2.2
38	1g	79	ARG	2.2
45	2n	31	ARG	2.2
1	2A	6	A	2.2
1	2A	652(A)	A	2.2
26	24	42	PHE	2.2
26	24	59	PHE	2.2
6	1G	149	VAL	2.2
7	1H	113	VAL	2.2
8	2I	145	VAL	2.2
21	2Z	126	VAL	2.2
21	2Z	165	VAL	2.2
34	1c	70	VAL	2.2
50	2s	19	VAL	2.2
1	2A	2106	G	2.2
7	2H	175	LYS	2.2
32	2a	1021	G	2.2
8	2I	55	ALA	2.2
13	2R	101	ALA	2.2
39	2h	64	LYS	2.2
51	2t	44	ALA	2.2
1	1A	2105	C	2.2
1	2A	888	C	2.2
13	2R	111	LEU	2.2
17	2V	71	LEU	2.2
19	2X	95	LEU	2.2
33	1b	187	LEU	2.2
33	2b	138	LEU	2.2
40	2i	99	LEU	2.2
42	1k	49	GLY	2.2
51	1t	62	LEU	2.2
54	1w	4	C	2.2
56	2y	75	C	2.2
13	2R	69	ASP	2.2
33	2b	170	GLU	2.2
40	2i	91	ASP	2.2
11	2P	15	ARG	2.2
13	2R	68	ARG	2.2
38	2g	4	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
40	2i	66	ARG	2.2
40	2i	111	ARG	2.2
45	1n	3	ARG	2.2
1	1A	1963	U	2.2
1	1A	2171	A	2.1
40	2i	11	LYS	2.2
40	2i	78	LYS	2.2
42	2k	124	LYS	2.2
21	2Z	58	VAL	2.1
21	2Z	141	VAL	2.1
27	25	60	VAL	2.1
34	2c	207	VAL	2.1
41	1j	44	VAL	2.1
56	1y	33	U	2.2
56	2y	26	A	2.1
12	2Q	28	ALA	2.1
33	2b	188	ALA	2.1
44	1m	18	ALA	2.1
1	1A	545	G	2.1
1	1A	1099	G	2.1
1	2A	879	G	2.1
3	2D	111	LEU	2.1
5	1F	121	GLY	2.1
33	2b	10	LEU	2.1
36	2e	120	THR	2.1
56	1y	69	G	2.1
56	2y	18	G	2.1
56	2y	22	G	2.1
7	2H	83	TYR	2.1
33	2b	172	ILE	2.1
34	2c	14	ILE	2.1
35	1d	5	ILE	2.1
1	2A	2161	C	2.1
32	1a	1367	C	2.1
6	1G	48	GLU	2.1
21	1Z	131	ARG	2.1
36	2e	27	ARG	2.1
46	1o	88	ARG	2.1
48	2q	75	ARG	2.1
34	2c	62	ASP	2.1
21	1Z	95	PRO	2.1
38	2g	93	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
41	1j	77	PRO	2.1
33	1b	24	TRP	2.1
33	2b	70	PHE	2.1
4	2E	59	VAL	2.1
8	2I	144	VAL	2.1
36	1e	67	VAL	2.1
46	1o	11	VAL	2.1
51	2t	88	VAL	2.1
1	1A	2109	U	2.1
1	2A	895	U	2.1
56	1y	12	U	2.1
56	2y	12	U	2.1
12	2Q	114	ALA	2.1
32	1a	160	A	2.1
32	2a	1001	A	2.1
14	2S	54	LEU	2.1
22	20	10	THR	2.1
34	1c	2	GLY	2.1
40	2i	64	THR	2.1
41	2j	71	LEU	2.1
44	2m	90	LEU	2.1
21	2Z	57	ILE	2.1
36	2e	80	ILE	2.1
38	2g	27	ILE	2.1
51	1t	55	ILE	2.1
6	2G	118	ARG	2.1
22	20	11	ARG	2.1
26	14	67	TYR	2.1
38	1g	32	ARG	2.1
38	2g	151	TYR	2.1
39	1h	62	TYR	2.1
42	2k	25	TYR	2.1
48	2q	86	GLU	2.1
52	2u	10	ARG	2.1
1	2A	2152	G	2.1
1	2A	2569	G	2.1
1	1A	1080	C	2.1
1	1A	2185	C	2.1
26	14	51	ASP	2.1
56	2y	2	C	2.1
7	2H	55	PRO	2.1
33	2b	91	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
40	2i	90	PRO	2.1
9	2N	1	MET	2.1
50	2s	14	HIS	2.1
38	2g	13	GLN	2.1
1	1A	2167	U	2.1
5	2F	22	ALA	2.1
21	2Z	164	ALA	2.1
39	2h	16	ALA	2.1
40	2i	106	ALA	2.1
20	1Y	92	ASN	2.1
1	1A	652(A)	A	2.1
1	2A	2176	A	2.1
5	2F	196	LEU	2.1
21	1Z	155	LEU	2.1
23	11	85	LEU	2.1
28	26	34	LEU	2.1
32	1a	161	A	2.1
39	2h	130	GLY	2.1
39	2h	122	ARG	2.1
6	1G	88	ILE	2.1
40	2i	2	GLU	2.1
40	1i	125	TYR	2.1
33	2b	133	LYS	2.1
34	2c	150	LYS	2.1
1	1A	1091	G	2.1
1	1A	2100	G	2.1
1	2A	10	G	2.1
56	2y	5	G	2.1
32	2a	1369	C	2.1
54	1w	3	C	2.1
56	2y	4	C	2.1
33	2b	19	HIS	2.1
35	1d	33	MET	2.1
41	1j	62	HIS	2.1
34	1c	107	GLN	2.1
7	2H	52	VAL	2.1
7	2H	169	VAL	2.1
9	2N	140	VAL	2.1
26	14	50	VAL	2.1
33	1b	93	VAL	2.1
37	2f	90	VAL	2.1
38	2g	66	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
40	1i	37	PHE	2.1
44	2m	98	VAL	2.1
49	2r	86	VAL	2.1
21	2Z	173	ALA	2.1
36	1e	138	ALA	2.1
43	2l	26	ALA	2.1
51	2t	95	ALA	2.1
1	2A	2122	U	2.1
34	2c	18	TRP	2.1
34	2c	94	LEU	2.1
35	1d	108	LEU	2.1
39	2h	10	LEU	2.1
50	1s	5	LEU	2.1
50	2s	34	TRP	2.1
6	2G	51	ARG	2.1
38	2g	133	GLY	2.1
51	2t	8	ARG	2.1
51	2t	101	GLY	2.1
26	24	52	THR	2.1
50	2s	77	THR	2.1
14	2S	40	ILE	2.1
33	2b	208	ILE	2.1
33	2b	211	ILE	2.1
39	1h	45	ILE	2.1
48	2q	90	ILE	2.1
51	1t	100	ILE	2.1
56	1y	36	A	2.1
45	2n	15	LYS	2.1
6	2G	12	TYR	2.1
35	2d	68	TYR	2.1
47	2p	32	TYR	2.1
40	1i	49	PRO	2.1
16	2U	72	HIS	2.1
1	1A	275	G	2.0
1	1A	1093	G	2.0
32	2a	630	G	2.0
32	2a	1038	C	2.1
32	2a	1114	C	2.1
56	2y	13	C	2.1
56	2y	56	C	2.1
7	2H	43	VAL	2.0
16	2U	8	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
21	2Z	39	VAL	2.0
21	2Z	161	VAL	2.0
35	2d	112	VAL	2.0
40	2i	33	PHE	2.0
40	2i	37	PHE	2.0
47	1p	62	VAL	2.0
7	2H	96	ALA	2.0
33	2b	137	ARG	2.0
34	2c	189	ALA	2.0
40	2i	46	ALA	2.0
8	2I	38	LEU	2.0
13	2R	65	LEU	2.0
34	2c	33	LEU	2.0
38	1g	12	LEU	2.0
41	2j	78	ASN	2.0
44	2m	48	LEU	2.0
44	2m	68	GLY	2.0
50	2s	84	GLY	2.0
1	2A	9	U	2.0
34	1c	192	THR	2.0
34	2c	4	LYS	2.0
41	2j	80	LYS	2.0
38	2g	44	TYR	2.0
40	2i	92	TYR	2.0
44	2m	23	TYR	2.0
50	2s	12	ASP	2.0
21	2Z	142	SER	2.0
21	2Z	158	PRO	2.0
46	1o	19	PRO	2.0
33	2b	48	MET	2.0
1	1A	2188	C	2.0
6	2G	117	PHE	2.0
7	2H	17	VAL	2.0
12	2Q	29	PHE	2.0
17	2V	47	VAL	2.0
19	2X	81	VAL	2.0
32	2a	1320	C	2.0
34	2c	190	ARG	2.0
36	2e	41	VAL	2.0
37	1f	47	ARG	2.0
40	1i	10	ARG	2.0
41	2j	94	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
45	2n	12	ARG	2.0
47	2p	9	PHE	2.0
52	2u	9	ARG	2.0
1	2A	2186	G	2.0
1	2A	2191	G	2.0
3	2D	153	ALA	2.0
7	2H	64	LEU	2.0
8	2I	116	LEU	2.0
11	2P	140	ALA	2.0
32	1a	1021	G	2.0
32	1a	1023	G	2.0
32	2a	1036	G	2.0
36	2e	110	LEU	2.0
38	2g	145	ALA	2.0
54	2w	69	G	2.0
18	2W	30	GLU	2.0
23	21	83	GLU	2.0
26	24	57	GLU	2.0
51	2t	24	LEU	2.0
50	1s	84	GLY	2.0
51	1t	102	GLY	2.0
34	2c	15	THR	2.0
35	1d	158	ILE	2.0
1	2A	2114	A	2.0
1	2A	2158	A	2.0
6	2G	2	PRO	2.0
21	1Z	167	PRO	2.0
32	2a	1179	A	2.0
32	2a	1256	A	2.0
3	2D	84	TYR	2.0
34	2c	29	TYR	2.0
40	1i	126	SER	2.0
50	1s	4	SER	2.0
50	1s	80	TYR	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
56	7MG	1y	46	24/25	0.54	0.18	74,84,96,103	0
56	4SU	2y	8	20/21	0.55	0.18	85,90,100,110	0
56	PSU	1y	55	20/21	0.61	0.16	81,84,96,104	0
56	5MU	2y	54	21/22	0.62	0.19	77,85,91,108	0
56	4SU	1y	8	20/21	0.67	0.15	82,86,93,99	0
56	MIA	2y	37	22/30	0.68	0.19	72,83,86,92	0
54	7MG	1w	46	24/25	0.68	0.16	65,76,91,106	0
54	7MG	2w	46	24/25	0.69	0.16	69,79,92,108	0
56	7MG	2y	46	24/25	0.69	0.16	78,86,90,106	0
56	PSU	2y	32	20/21	0.71	0.14	77,84,91,95	0
56	5MU	1y	54	21/22	0.74	0.15	78,80,87,94	0
56	PSU	2y	55	20/21	0.74	0.14	67,85,89,96	0
56	PSU	2y	39	20/21	0.75	0.15	78,83,91,95	0
56	PSU	1y	39	20/21	0.76	0.16	74,82,85,86	0
56	MIA	1y	37	22/30	0.77	0.17	72,77,83,92	0
56	PSU	1y	32	20/21	0.81	0.14	70,78,85,94	0
54	4SU	2w	8	20/21	0.83	0.13	74,80,90,93	0
54	PSU	2w	55	20/21	0.83	0.12	64,71,80,81	0
54	4SU	1w	8	20/21	0.87	0.12	69,76,83,84	0
55	5MU	2x	54	21/22	0.90	0.13	67,71,76,79	0
32	2MG	2a	1207	24/25	0.90	0.13	66,70,73,75	0
54	PSU	1w	55	20/21	0.91	0.11	53,61,68,69	0
55	PSU	2x	55	20/21	0.91	0.11	58,67,70,74	0
43	0TD	2l	92	10/11	0.92	0.11	49,56,61,72	0
1	5MU	2A	1915	21/22	0.92	0.12	51,58,62,64	0
55	5MC	2x	32	21/22	0.92	0.15	57,62,69,74	0
43	0TD	1l	92	10/11	0.92	0.10	38,45,48,62	0
54	PSU	1w	32	20/21	0.92	0.12	49,58,63,64	0
54	PSU	2w	32	20/21	0.92	0.15	61,69,76,81	0
32	5MC	2a	967	21/22	0.93	0.13	54,63,68,70	0
55	4SU	1x	8	20/21	0.93	0.10	52,58,63,66	0
55	5MU	1x	54	21/22	0.93	0.10	52,60,64,66	0
55	4SU	2x	8	20/21	0.93	0.10	61,65,72,73	0
55	PSU	1x	55	20/21	0.93	0.10	51,55,65,68	0
32	7MG	2a	527	24/25	0.93	0.11	53,58,70,76	0
32	M2G	2a	966	25/26	0.93	0.13	54,60,72,75	0
54	5MU	2w	54	21/22	0.93	0.11	49,65,70,73	0
54	PSU	2w	39	20/21	0.94	0.12	60,67,72,74	0
32	5MC	2a	1400	21/22	0.94	0.14	53,59,67,70	0
32	5MC	2a	1404	21/22	0.94	0.11	47,55,60,69	0
32	PSU	2a	516	20/21	0.94	0.10	55,63,67,69	0
1	5MC	2A	1942	21/22	0.95	0.09	43,50,54,63	0
1	5MC	2A	1962	21/22	0.95	0.09	37,46,56,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	5MC	2a	1407	21/22	0.95	0.11	48,53,57,64	0
32	MA6	2a	1519	24/25	0.95	0.12	45,55,59,61	0
55	5MC	1x	32	21/22	0.95	0.12	40,45,51,56	0
32	2MG	1a	1207	24/25	0.95	0.10	44,56,63,68	0
54	MIA	2w	37	25/30	0.95	0.11	53,65,69,75	0
32	5MC	1a	1400	21/22	0.95	0.10	39,47,50,54	0
32	7MG	1a	527	24/25	0.95	0.10	37,44,49,58	0
32	4OC	2a	1402	22/23	0.95	0.11	46,55,58,61	0
54	5MU	1w	54	21/22	0.95	0.09	44,54,59,66	0
1	5MU	1A	1915	21/22	0.95	0.10	35,48,55,60	0
32	M2G	1a	966	25/26	0.95	0.10	44,50,56,59	0
1	PSU	2A	1917	20/21	0.95	0.09	45,55,60,62	0
32	PSU	1a	516	20/21	0.96	0.07	41,47,51,52	0
55	31H	2x	76	32/33	0.96	0.10	35,43,50,55	0
1	MA6	2A	2058	24/25	0.96	0.10	30,39,45,45	0
1	2MU	2A	2552	21/23	0.96	0.09	35,43,49,53	0
1	PSU	2A	1911	20/21	0.96	0.09	49,53,60,62	0
32	5MC	1a	1404	21/22	0.96	0.10	33,41,46,47	0
32	MA6	2a	1518	24/25	0.96	0.11	45,54,59,61	0
54	F3N	2w	76	33/34	0.96	0.10	29,39,44,46	0
32	MA6	1a	1519	24/25	0.96	0.10	35,39,46,48	0
1	4OC	2A	1920	21/23	0.96	0.08	51,56,58,60	0
54	PSU	1w	39	20/21	0.96	0.09	45,52,58,62	0
1	5MC	1A	1942	21/22	0.97	0.08	27,38,44,52	0
32	5MC	1a	1407	21/22	0.97	0.08	31,41,44,46	0
1	PSU	1A	1911	20/21	0.97	0.08	36,43,51,51	0
32	UR3	1a	1498	21/22	0.97	0.09	36,42,47,48	0
1	OMG	2A	2251	24/25	0.97	0.09	29,36,43,46	0
32	4OC	1a	1402	22/23	0.97	0.08	37,42,47,55	0
1	PSU	2A	2605	20/21	0.97	0.08	28,37,42,43	0
32	5MC	1a	967	21/22	0.97	0.10	38,50,55,57	0
32	UR3	2a	1498	21/22	0.97	0.10	49,52,58,59	0
55	31H	1x	76	32/33	0.97	0.09	19,26,36,36	10
1	5MU	2A	1939	21/22	0.97	0.09	29,37,41,44	0
54	MIA	1w	37	29/30	0.97	0.09	36,45,59,63	0
32	MA6	1a	1518	24/25	0.98	0.08	32,42,46,46	0
1	MA6	1A	2058	24/25	0.98	0.07	15,22,29,39	0
1	4OC	1A	1920	21/23	0.98	0.08	29,40,44,45	0
1	OMG	1A	2251	24/25	0.98	0.06	20,27,31,34	0
1	PSU	1A	1917	20/21	0.98	0.07	27,43,47,48	0
1	2MA	1A	2503	23/24	0.98	0.07	15,23,28,30	0
1	2MA	2A	2503	23/24	0.98	0.09	30,35,39,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
1	2MU	1A	2552	21/23	0.98	0.06	19,27,29,38	0
1	5MC	1A	1962	21/22	0.98	0.06	20,32,35,39	0
1	PSU	1A	2605	20/21	0.98	0.06	23,27,30,32	0
54	F3N	1w	76	33/34	0.99	0.05	17,22,26,27	0
1	5MU	1A	1939	21/22	0.99	0.05	18,27,34,38	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
57	MG	2B	218	1/1	0.59	0.20	81,81,81,81	0
57	MG	2a	1838	1/1	0.61	0.20	78,78,78,78	0
57	MG	2a	1825	1/1	0.62	0.19	76,76,76,76	0
57	MG	1B	225	1/1	0.63	0.22	72,72,72,72	0
57	MG	1A	4082	1/1	0.64	0.24	75,75,75,75	0
57	MG	2a	1734	1/1	0.66	0.15	88,88,88,88	0
57	MG	2A	3577	1/1	0.67	0.23	67,67,67,67	0
57	MG	1G	204	1/1	0.68	0.16	60,60,60,60	0
57	MG	2A	3605	1/1	0.69	0.31	72,72,72,72	0
57	MG	2A	3716	1/1	0.69	0.27	65,65,65,65	0
57	MG	1A	3855	1/1	0.70	0.20	69,69,69,69	0
57	MG	1a	1764	1/1	0.71	0.35	66,66,66,66	0
57	MG	2a	1744	1/1	0.71	0.18	79,79,79,79	0
57	MG	2a	1801	1/1	0.71	0.18	67,67,67,67	0
57	MG	2A	3791	1/1	0.71	0.17	72,72,72,72	0
57	MG	1y	103	1/1	0.71	0.17	83,83,83,83	0
57	MG	2a	1618	1/1	0.72	0.22	68,68,68,68	0
57	MG	2A	3699	1/1	0.72	0.19	83,83,83,83	0
57	MG	1B	226	1/1	0.72	0.25	71,71,71,71	0
57	MG	2w	105	1/1	0.72	0.16	79,79,79,79	0
57	MG	1A	3996	1/1	0.73	0.23	70,70,70,70	0
57	MG	1A	3410	1/1	0.73	0.17	57,57,57,57	0
57	MG	2A	3731	1/1	0.73	0.19	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3884	1/1	0.73	0.29	58,58,58,58	0
57	MG	2A	3589	1/1	0.74	0.17	66,66,66,66	0
57	MG	2A	3544	1/1	0.74	0.13	53,53,53,53	0
57	MG	1A	4033	1/1	0.74	0.18	50,50,50,50	0
57	MG	2A	3872	1/1	0.74	0.20	59,59,59,59	0
57	MG	1A	3722	1/1	0.75	0.21	58,58,58,58	0
57	MG	2a	1807	1/1	0.75	0.18	55,55,55,55	0
57	MG	1a	1803	1/1	0.75	0.16	72,72,72,72	0
57	MG	2A	3853	1/1	0.75	0.15	45,45,45,45	0
57	MG	1A	3974	1/1	0.75	0.12	41,41,41,41	0
57	MG	1a	1699	1/1	0.76	0.31	69,69,69,69	0
57	MG	1d	301	1/1	0.76	0.27	61,61,61,61	0
57	MG	1A	3657	1/1	0.76	0.17	66,66,66,66	0
57	MG	2A	3764	1/1	0.76	0.23	66,66,66,66	0
57	MG	2A	3349	1/1	0.76	0.20	72,72,72,72	0
57	MG	2A	3633	1/1	0.76	0.20	54,54,54,54	0
57	MG	2A	3654	1/1	0.76	0.18	75,75,75,75	0
57	MG	2A	3669	1/1	0.76	0.23	75,75,75,75	0
57	MG	2a	1670	1/1	0.77	0.23	68,68,68,68	0
57	MG	2A	3773	1/1	0.77	0.23	51,51,51,51	0
57	MG	2A	3352	1/1	0.77	0.18	67,67,67,67	0
57	MG	2A	3678	1/1	0.77	0.18	52,52,52,52	0
57	MG	1A	4065	1/1	0.78	0.13	47,47,47,47	0
57	MG	2A	3617	1/1	0.78	0.20	51,51,51,51	0
57	MG	2A	3841	1/1	0.78	0.14	50,50,50,50	0
57	MG	2B	212	1/1	0.79	0.28	74,74,74,74	0
57	MG	1A	4046	1/1	0.79	0.12	44,44,44,44	0
57	MG	1A	4105	1/1	0.79	0.13	71,71,71,71	0
57	MG	2A	3748	1/1	0.79	0.18	57,57,57,57	0
57	MG	1V	209	1/1	0.79	0.12	70,70,70,70	0
57	MG	2A	3768	1/1	0.79	0.19	62,62,62,62	0
57	MG	1A	4112	1/1	0.79	0.12	33,33,33,33	0
57	MG	1A	3430	1/1	0.79	0.22	56,56,56,56	0
57	MG	1a	1778	1/1	0.79	0.17	69,69,69,69	0
57	MG	1a	1788	1/1	0.79	0.13	67,67,67,67	0
57	MG	2w	102	1/1	0.79	0.26	73,73,73,73	0
57	MG	2A	3578	1/1	0.79	0.21	67,67,67,67	0
57	MG	2A	3402	1/1	0.80	0.22	61,61,61,61	0
57	MG	2N	201	1/1	0.80	0.20	71,71,71,71	0
57	MG	2A	3111	1/1	0.80	0.22	67,67,67,67	0
57	MG	2a	1829	1/1	0.80	0.18	63,63,63,63	0
57	MG	1a	1774	1/1	0.80	0.12	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3292	1/1	0.80	0.17	53,53,53,53	0
57	MG	2A	3645	1/1	0.80	0.26	66,66,66,66	0
57	MG	18	106	1/1	0.81	0.16	60,60,60,60	0
57	MG	2A	3420	1/1	0.81	0.18	68,68,68,68	0
57	MG	2A	3422	1/1	0.81	0.15	61,61,61,61	0
57	MG	2A	3442	1/1	0.81	0.43	70,70,70,70	0
57	MG	2A	3683	1/1	0.81	0.18	62,62,62,62	0
57	MG	2A	3534	1/1	0.81	0.27	63,63,63,63	0
57	MG	2a	1681	1/1	0.81	0.24	64,64,64,64	0
57	MG	2a	1711	1/1	0.81	0.20	68,68,68,68	0
57	MG	1A	3892	1/1	0.81	0.18	31,31,31,31	0
57	MG	1v	101	1/1	0.81	0.16	67,67,67,67	0
57	MG	1A	4056	1/1	0.81	0.13	50,50,50,50	0
57	MG	2A	3090	1/1	0.81	0.13	61,61,61,61	0
57	MG	2A	3597	1/1	0.81	0.22	61,61,61,61	0
57	MG	1A	3854	1/1	0.81	0.14	57,57,57,57	0
57	MG	2a	1830	1/1	0.81	0.17	69,69,69,69	0
57	MG	2a	1837	1/1	0.81	0.16	61,61,61,61	0
57	MG	1A	3690	1/1	0.81	0.22	69,69,69,69	0
57	MG	2j	201	1/1	0.81	0.12	65,65,65,65	0
57	MG	1A	3779	1/1	0.81	0.10	23,23,23,23	0
57	MG	2A	3640	1/1	0.81	0.15	39,39,39,39	0
57	MG	2a	1620	1/1	0.82	0.15	65,65,65,65	0
57	MG	2a	1631	1/1	0.82	0.18	66,66,66,66	0
57	MG	2a	1664	1/1	0.82	0.20	78,78,78,78	0
57	MG	1a	1766	1/1	0.82	0.18	52,52,52,52	0
57	MG	2A	3752	1/1	0.82	0.20	51,51,51,51	0
57	MG	2A	3620	1/1	0.82	0.28	69,69,69,69	0
57	MG	2a	1724	1/1	0.82	0.24	70,70,70,70	0
57	MG	1A	3916	1/1	0.82	0.12	43,43,43,43	0
57	MG	1A	4111	1/1	0.82	0.11	24,24,24,24	0
57	MG	2A	3101	1/1	0.82	0.28	71,71,71,71	0
57	MG	2A	3805	1/1	0.82	0.13	56,56,56,56	0
57	MG	2A	3811	1/1	0.82	0.20	55,55,55,55	0
57	MG	1A	3731	1/1	0.82	0.21	60,60,60,60	0
57	MG	2A	3258	1/1	0.82	0.18	68,68,68,68	0
57	MG	2a	1834	1/1	0.82	0.20	65,65,65,65	0
57	MG	2A	3287	1/1	0.82	0.31	64,64,64,64	0
57	MG	2A	3348	1/1	0.82	0.20	67,67,67,67	0
57	MG	1A	3651	1/1	0.82	0.15	59,59,59,59	0
57	MG	1A	3533	1/1	0.82	0.14	55,55,55,55	0
57	MG	2A	3380	1/1	0.82	0.16	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2y	106	1/1	0.82	0.13	67,67,67,67	0
57	MG	2A	3278	1/1	0.83	0.20	71,71,71,71	0
57	MG	1A	4073	1/1	0.83	0.09	35,35,35,35	0
57	MG	2A	3305	1/1	0.83	0.17	62,62,62,62	0
57	MG	2a	1797	1/1	0.83	0.16	61,61,61,61	0
57	MG	2A	3531	1/1	0.83	0.23	67,67,67,67	0
57	MG	2a	1803	1/1	0.83	0.17	65,65,65,65	0
57	MG	2A	3323	1/1	0.83	0.15	61,61,61,61	0
57	MG	2A	3758	1/1	0.83	0.12	42,42,42,42	0
57	MG	2a	1609	1/1	0.83	0.14	75,75,75,75	0
57	MG	1A	3748	1/1	0.83	0.15	68,68,68,68	0
57	MG	1A	3810	1/1	0.83	0.19	71,71,71,71	0
57	MG	2A	3115	1/1	0.83	0.36	65,65,65,65	0
57	MG	2A	3673	1/1	0.83	0.16	54,54,54,54	0
57	MG	2A	3235	1/1	0.83	0.29	64,64,64,64	0
57	MG	1A	4040	1/1	0.83	0.15	59,59,59,59	0
57	MG	2a	1698	1/1	0.83	0.19	59,59,59,59	0
57	MG	2A	3824	1/1	0.83	0.16	58,58,58,58	0
57	MG	2A	3819	1/1	0.84	0.14	51,51,51,51	0
57	MG	2A	3180	1/1	0.84	0.18	59,59,59,59	0
57	MG	1A	3415	1/1	0.84	0.24	65,65,65,65	0
57	MG	1a	1726	1/1	0.84	0.28	57,57,57,57	0
57	MG	2A	3857	1/1	0.84	0.15	43,43,43,43	0
57	MG	2A	3613	1/1	0.84	0.13	48,48,48,48	0
57	MG	2A	3882	1/1	0.84	0.20	64,64,64,64	0
57	MG	2A	3265	1/1	0.84	0.21	65,65,65,65	0
57	MG	1a	1748	1/1	0.84	0.16	68,68,68,68	0
57	MG	2F	306	1/1	0.84	0.15	56,56,56,56	0
57	MG	1A	3570	1/1	0.84	0.30	71,71,71,71	0
57	MG	1A	3606	1/1	0.84	0.21	58,58,58,58	0
57	MG	1A	4090	1/1	0.84	0.16	65,65,65,65	0
57	MG	2A	3331	1/1	0.84	0.28	69,69,69,69	0
57	MG	2A	3664	1/1	0.84	0.16	59,59,59,59	0
57	MG	2A	3340	1/1	0.84	0.18	55,55,55,55	0
57	MG	1A	3733	1/1	0.84	0.12	53,53,53,53	0
57	MG	1A	3965	1/1	0.84	0.13	76,76,76,76	0
57	MG	1A	3615	1/1	0.84	0.12	36,36,36,36	0
57	MG	2A	3690	1/1	0.84	0.15	52,52,52,52	0
57	MG	1a	1818	1/1	0.84	0.11	69,69,69,69	0
57	MG	2A	3702	1/1	0.84	0.11	64,64,64,64	0
57	MG	2a	1743	1/1	0.84	0.15	66,66,66,66	0
57	MG	1A	3359	1/1	0.84	0.16	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3798	1/1	0.84	0.19	75,75,75,75	0
57	MG	2A	3738	1/1	0.84	0.11	43,43,43,43	0
57	MG	1x	103	1/1	0.84	0.23	59,59,59,59	0
57	MG	1B	232	1/1	0.84	0.16	67,67,67,67	0
57	MG	2A	3507	1/1	0.84	0.18	66,66,66,66	0
57	MG	2A	3762	1/1	0.84	0.16	56,56,56,56	0
57	MG	1A	3461	1/1	0.84	0.20	61,61,61,61	0
57	MG	1A	3816	1/1	0.84	0.17	45,45,45,45	0
57	MG	2A	3106	1/1	0.84	0.18	64,64,64,64	0
57	MG	2A	3564	1/1	0.84	0.09	35,35,35,35	0
57	MG	1A	3674	1/1	0.84	0.11	38,38,38,38	0
57	MG	1a	1628	1/1	0.84	0.23	58,58,58,58	0
57	MG	2A	3814	1/1	0.84	0.12	73,73,73,73	0
57	MG	2A	3817	1/1	0.84	0.12	65,65,65,65	0
57	MG	1x	109	1/1	0.85	0.15	60,60,60,60	0
57	MG	1A	3646	1/1	0.85	0.11	52,52,52,52	0
57	MG	2a	1602	1/1	0.85	0.12	77,77,77,77	0
57	MG	2A	3028	1/1	0.85	0.15	51,51,51,51	0
57	MG	2A	3571	1/1	0.85	0.13	43,43,43,43	0
57	MG	2A	3743	1/1	0.85	0.18	48,48,48,48	0
57	MG	11	105	1/1	0.85	0.12	47,47,47,47	0
57	MG	2A	3339	1/1	0.85	0.20	67,67,67,67	0
57	MG	2A	3753	1/1	0.85	0.11	64,64,64,64	0
57	MG	1A	3634	1/1	0.85	0.18	64,64,64,64	0
57	MG	2a	1685	1/1	0.85	0.20	59,59,59,59	0
57	MG	2a	1687	1/1	0.85	0.15	65,65,65,65	0
57	MG	2A	3341	1/1	0.85	0.28	60,60,60,60	0
57	MG	1a	1782	1/1	0.85	0.12	57,57,57,57	0
57	MG	1a	1787	1/1	0.85	0.12	59,59,59,59	0
57	MG	1A	4021	1/1	0.85	0.12	39,39,39,39	0
57	MG	2A	3366	1/1	0.85	0.15	59,59,59,59	0
57	MG	2A	3623	1/1	0.85	0.14	64,64,64,64	0
57	MG	2A	3367	1/1	0.85	0.15	63,63,63,63	0
57	MG	2A	3813	1/1	0.85	0.12	77,77,77,77	0
57	MG	2A	3373	1/1	0.85	0.12	64,64,64,64	0
57	MG	2A	3170	1/1	0.85	0.13	64,64,64,64	0
57	MG	2a	1817	1/1	0.85	0.20	62,62,62,62	0
57	MG	1A	3920	1/1	0.85	0.20	66,66,66,66	0
57	MG	1a	1722	1/1	0.85	0.13	62,62,62,62	0
57	MG	2A	3243	1/1	0.85	0.13	63,63,63,63	0
57	MG	2A	3430	1/1	0.85	0.27	54,54,54,54	0
57	MG	1B	227	1/1	0.85	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
57	MG	2A	3466	1/1	0.85	0.28	57,57,57,57	0
57	MG	2A	3686	1/1	0.85	0.16	59,59,59,59	0
57	MG	2B	208	1/1	0.85	0.13	59,59,59,59	0
57	MG	2w	103	1/1	0.85	0.28	69,69,69,69	0
57	MG	1A	3935	1/1	0.85	0.11	26,26,26,26	0
57	MG	2y	103	1/1	0.85	0.13	64,64,64,64	0
57	MG	1A	3797	1/1	0.85	0.10	28,28,28,28	0
57	MG	2A	3355	1/1	0.86	0.27	79,79,79,79	0
57	MG	2A	3357	1/1	0.86	0.12	56,56,56,56	0
57	MG	2A	3677	1/1	0.86	0.15	66,66,66,66	0
57	MG	2B	220	1/1	0.86	0.20	70,70,70,70	0
57	MG	1E	310	1/1	0.86	0.13	58,58,58,58	0
57	MG	1A	4030	1/1	0.86	0.20	42,42,42,42	0
57	MG	26	101	1/1	0.86	0.17	52,52,52,52	0
57	MG	1A	3353	1/1	0.86	0.14	70,70,70,70	0
57	MG	2a	1603	1/1	0.86	0.15	62,62,62,62	0
57	MG	2A	3687	1/1	0.86	0.20	64,64,64,64	0
57	MG	2a	1611	1/1	0.86	0.17	65,65,65,65	0
57	MG	2A	3008	1/1	0.86	0.15	58,58,58,58	0
57	MG	1A	3900	1/1	0.86	0.08	30,30,30,30	0
57	MG	18	104	1/1	0.86	0.15	52,52,52,52	0
57	MG	1A	3903	1/1	0.86	0.10	22,22,22,22	0
57	MG	1A	3914	1/1	0.86	0.28	33,33,33,33	0
57	MG	1A	3539	1/1	0.86	0.20	53,53,53,53	0
57	MG	2A	3739	1/1	0.86	0.14	65,65,65,65	0
57	MG	1a	1704	1/1	0.86	0.33	57,57,57,57	0
57	MG	2A	3124	1/1	0.86	0.33	72,72,72,72	0
57	MG	2a	1699	1/1	0.86	0.14	65,65,65,65	0
57	MG	2a	1710	1/1	0.86	0.15	60,60,60,60	0
57	MG	1A	4067	1/1	0.86	0.10	30,30,30,30	0
57	MG	2a	1719	1/1	0.86	0.30	74,74,74,74	0
57	MG	2A	3533	1/1	0.86	0.13	51,51,51,51	0
57	MG	2A	3174	1/1	0.86	0.17	70,70,70,70	0
57	MG	1A	4072	1/1	0.86	0.13	38,38,38,38	0
57	MG	1A	3293	1/1	0.86	0.12	55,55,55,55	0
57	MG	2a	1760	1/1	0.86	0.17	69,69,69,69	0
57	MG	2a	1772	1/1	0.86	0.12	66,66,66,66	0
57	MG	2a	1780	1/1	0.86	0.12	79,79,79,79	0
57	MG	1A	3925	1/1	0.86	0.09	26,26,26,26	0
57	MG	1A	4087	1/1	0.86	0.12	59,59,59,59	0
57	MG	1A	3759	1/1	0.86	0.11	66,66,66,66	0
57	MG	1A	4093	1/1	0.86	0.24	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3285	1/1	0.86	0.17	64,64,64,64	0
57	MG	1A	3947	1/1	0.86	0.15	52,52,52,52	0
57	MG	1A	3849	1/1	0.86	0.24	57,57,57,57	0
57	MG	1A	3768	1/1	0.86	0.19	51,51,51,51	0
57	MG	1a	1792	1/1	0.86	0.18	53,53,53,53	0
57	MG	1a	1796	1/1	0.86	0.10	44,44,44,44	0
57	MG	1A	3991	1/1	0.86	0.18	67,67,67,67	0
57	MG	1A	3774	1/1	0.86	0.10	29,29,29,29	0
57	MG	1A	4008	1/1	0.86	0.10	33,33,33,33	0
57	MG	2A	3863	1/1	0.86	0.24	77,77,77,77	0
57	MG	1A	3326	1/1	0.86	0.12	48,48,48,48	0
57	MG	1x	101	1/1	0.86	0.10	22,22,22,22	0
57	MG	2B	203	1/1	0.86	0.31	66,66,66,66	0
57	MG	1R	204	1/1	0.87	0.21	44,44,44,44	0
57	MG	2A	3599	1/1	0.87	0.10	34,34,34,34	0
57	MG	2A	3602	1/1	0.87	0.25	60,60,60,60	0
57	MG	2A	3294	1/1	0.87	0.10	57,57,57,57	0
57	MG	2A	3297	1/1	0.87	0.15	66,66,66,66	0
57	MG	2A	3298	1/1	0.87	0.11	58,58,58,58	0
57	MG	2A	3618	1/1	0.87	0.20	61,61,61,61	0
57	MG	1A	3698	1/1	0.87	0.12	28,28,28,28	0
57	MG	2D	304	1/1	0.87	0.13	59,59,59,59	0
57	MG	2A	3310	1/1	0.87	0.15	56,56,56,56	0
57	MG	1Z	302	1/1	0.87	0.17	55,55,55,55	0
57	MG	2Q	204	1/1	0.87	0.15	54,54,54,54	0
57	MG	2A	3637	1/1	0.87	0.11	47,47,47,47	0
57	MG	2a	1601	1/1	0.87	0.13	61,61,61,61	0
57	MG	2A	3324	1/1	0.87	0.17	68,68,68,68	0
57	MG	2A	3327	1/1	0.87	0.15	55,55,55,55	0
57	MG	1l	202	1/1	0.87	0.12	67,67,67,67	0
57	MG	1A	3933	1/1	0.87	0.09	67,67,67,67	0
57	MG	13	104	1/1	0.87	0.13	55,55,55,55	0
57	MG	1A	3705	1/1	0.87	0.10	33,33,33,33	0
57	MG	2A	3345	1/1	0.87	0.23	64,64,64,64	0
57	MG	2a	1646	1/1	0.87	0.30	63,63,63,63	0
57	MG	2a	1660	1/1	0.87	0.17	78,78,78,78	0
57	MG	1A	3720	1/1	0.87	0.10	42,42,42,42	0
57	MG	2A	3680	1/1	0.87	0.17	61,61,61,61	0
57	MG	1x	110	1/1	0.87	0.19	63,63,63,63	0
57	MG	1A	3952	1/1	0.87	0.11	49,49,49,49	0
57	MG	1A	4085	1/1	0.87	0.15	62,62,62,62	0
57	MG	1A	3958	1/1	0.87	0.08	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3693	1/1	0.87	0.09	58,58,58,58	0
57	MG	2a	1707	1/1	0.87	0.16	62,62,62,62	0
57	MG	2A	3058	1/1	0.87	0.24	61,61,61,61	0
57	MG	1a	1705	1/1	0.87	0.19	60,60,60,60	0
57	MG	2a	1712	1/1	0.87	0.21	67,67,67,67	0
57	MG	1a	1720	1/1	0.87	0.34	57,57,57,57	0
57	MG	2a	1721	1/1	0.87	0.21	73,73,73,73	0
57	MG	1A	3821	1/1	0.87	0.13	51,51,51,51	0
57	MG	2a	1727	1/1	0.87	0.28	71,71,71,71	0
57	MG	1A	3521	1/1	0.87	0.19	52,52,52,52	0
57	MG	1A	3628	1/1	0.87	0.18	68,68,68,68	0
57	MG	1A	3522	1/1	0.87	0.14	65,65,65,65	0
57	MG	2A	3747	1/1	0.87	0.10	65,65,65,65	0
57	MG	2A	3424	1/1	0.87	0.10	54,54,54,54	0
57	MG	2A	3133	1/1	0.87	0.14	66,66,66,66	0
57	MG	1A	3335	1/1	0.87	0.25	60,60,60,60	0
57	MG	2A	3453	1/1	0.87	0.30	61,61,61,61	0
57	MG	1A	4121	1/1	0.87	0.26	57,57,57,57	0
57	MG	2a	1806	1/1	0.87	0.15	69,69,69,69	0
57	MG	1A	3756	1/1	0.87	0.11	44,44,44,44	0
57	MG	2A	3517	1/1	0.87	0.14	54,54,54,54	0
57	MG	2a	1822	1/1	0.87	0.17	65,65,65,65	0
57	MG	2A	3186	1/1	0.87	0.20	54,54,54,54	0
57	MG	2A	3211	1/1	0.87	0.17	59,59,59,59	0
57	MG	2A	3215	1/1	0.87	0.17	63,63,63,63	0
57	MG	2a	1833	1/1	0.87	0.14	68,68,68,68	0
57	MG	2A	3539	1/1	0.87	0.11	43,43,43,43	0
57	MG	1A	3647	1/1	0.87	0.11	44,44,44,44	0
57	MG	1A	3336	1/1	0.87	0.15	57,57,57,57	0
57	MG	2d	301	1/1	0.87	0.33	58,58,58,58	0
57	MG	2A	3565	1/1	0.87	0.10	44,44,44,44	0
57	MG	2r	101	1/1	0.87	0.12	61,61,61,61	0
57	MG	2A	3568	1/1	0.87	0.15	63,63,63,63	0
57	MG	1A	3316	1/1	0.87	0.17	57,57,57,57	0
57	MG	1A	3594	1/1	0.87	0.13	50,50,50,50	0
57	MG	1a	1794	1/1	0.87	0.11	58,58,58,58	0
57	MG	1A	3211	1/1	0.87	0.16	62,62,62,62	0
57	MG	1x	111	1/1	0.88	0.16	63,63,63,63	0
57	MG	1A	3963	1/1	0.88	0.10	65,65,65,65	0
57	MG	1A	3683	1/1	0.88	0.10	24,24,24,24	0
57	MG	2A	3431	1/1	0.88	0.24	52,52,52,52	0
57	MG	2A	3439	1/1	0.88	0.13	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1R	201	1/1	0.88	0.12	45,45,45,45	0
57	MG	1A	3808	1/1	0.88	0.12	59,59,59,59	0
57	MG	2A	3456	1/1	0.88	0.20	56,56,56,56	0
57	MG	2A	3871	1/1	0.88	0.14	57,57,57,57	0
57	MG	1A	3978	1/1	0.88	0.29	56,56,56,56	0
57	MG	1A	3988	1/1	0.88	0.11	61,61,61,61	0
57	MG	2A	3889	1/1	0.88	0.24	55,55,55,55	0
57	MG	2A	3890	1/1	0.88	0.11	46,46,46,46	0
57	MG	1A	3593	1/1	0.88	0.17	50,50,50,50	0
57	MG	1A	3193	1/1	0.88	0.10	48,48,48,48	0
57	MG	15	107	1/1	0.88	0.11	53,53,53,53	0
57	MG	1A	4000	1/1	0.88	0.09	64,64,64,64	0
57	MG	1A	3604	1/1	0.88	0.18	53,53,53,53	0
57	MG	2A	3150	1/1	0.88	0.20	65,65,65,65	0
57	MG	2E	305	1/1	0.88	0.14	62,62,62,62	0
57	MG	2A	3153	1/1	0.88	0.19	60,60,60,60	0
57	MG	1a	1604	1/1	0.88	0.16	57,57,57,57	0
57	MG	1a	1611	1/1	0.88	0.10	59,59,59,59	0
57	MG	2W	202	1/1	0.88	0.20	47,47,47,47	0
57	MG	1A	3846	1/1	0.88	0.16	62,62,62,62	0
57	MG	1a	1635	1/1	0.88	0.29	56,56,56,56	0
57	MG	1a	1638	1/1	0.88	0.24	49,49,49,49	0
57	MG	1a	1654	1/1	0.88	0.25	65,65,65,65	0
57	MG	2A	3227	1/1	0.88	0.18	55,55,55,55	0
57	MG	2A	3228	1/1	0.88	0.17	63,63,63,63	0
57	MG	1a	1659	1/1	0.88	0.21	63,63,63,63	0
57	MG	1a	1680	1/1	0.88	0.10	44,44,44,44	0
57	MG	2a	1621	1/1	0.88	0.11	58,58,58,58	0
57	MG	2A	3252	1/1	0.88	0.17	58,58,58,58	0
57	MG	2A	3256	1/1	0.88	0.32	62,62,62,62	0
57	MG	1a	1691	1/1	0.88	0.18	64,64,64,64	0
57	MG	1A	3714	1/1	0.88	0.10	32,32,32,32	0
57	MG	1A	3027	1/1	0.88	0.21	68,68,68,68	0
57	MG	2A	3281	1/1	0.88	0.14	55,55,55,55	0
57	MG	2a	1682	1/1	0.88	0.23	62,62,62,62	0
57	MG	1A	3609	1/1	0.88	0.11	45,45,45,45	0
57	MG	1A	3857	1/1	0.88	0.12	58,58,58,58	0
57	MG	2A	3288	1/1	0.88	0.23	66,66,66,66	0
57	MG	1A	4048	1/1	0.88	0.10	66,66,66,66	0
57	MG	1A	3875	1/1	0.88	0.14	51,51,51,51	0
57	MG	1a	1727	1/1	0.88	0.12	64,64,64,64	0
57	MG	1A	3502	1/1	0.88	0.09	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3247	1/1	0.88	0.10	64,64,64,64	0
57	MG	2A	3316	1/1	0.88	0.13	65,65,65,65	0
57	MG	2A	3321	1/1	0.88	0.11	48,48,48,48	0
57	MG	1A	3896	1/1	0.88	0.10	34,34,34,34	0
57	MG	1A	3741	1/1	0.88	0.12	68,68,68,68	0
57	MG	2a	1728	1/1	0.88	0.17	52,52,52,52	0
57	MG	1A	3262	1/1	0.88	0.14	55,55,55,55	0
57	MG	2a	1738	1/1	0.88	0.10	79,79,79,79	0
57	MG	1a	1779	1/1	0.88	0.10	71,71,71,71	0
57	MG	1A	3905	1/1	0.88	0.13	50,50,50,50	0
57	MG	1A	3750	1/1	0.88	0.08	28,28,28,28	0
57	MG	2a	1763	1/1	0.88	0.09	72,72,72,72	0
57	MG	1A	3074	1/1	0.88	0.23	53,53,53,53	0
57	MG	2A	3710	1/1	0.88	0.13	62,62,62,62	0
57	MG	1A	3077	1/1	0.88	0.13	57,57,57,57	0
57	MG	2a	1798	1/1	0.88	0.14	69,69,69,69	0
57	MG	2A	3719	1/1	0.88	0.13	53,53,53,53	0
57	MG	2A	3721	1/1	0.88	0.13	52,52,52,52	0
57	MG	2a	1804	1/1	0.88	0.14	67,67,67,67	0
57	MG	1A	4094	1/1	0.88	0.09	35,35,35,35	0
57	MG	1A	4100	1/1	0.88	0.18	40,40,40,40	0
57	MG	1A	3765	1/1	0.88	0.14	49,49,49,49	0
57	MG	1A	3544	1/1	0.88	0.10	56,56,56,56	0
57	MG	1A	3562	1/1	0.88	0.10	63,63,63,63	0
57	MG	2A	3364	1/1	0.88	0.39	70,70,70,70	0
57	MG	2A	3749	1/1	0.88	0.18	67,67,67,67	0
57	MG	2a	1831	1/1	0.88	0.11	66,66,66,66	0
57	MG	1A	3936	1/1	0.88	0.10	35,35,35,35	0
57	MG	1A	3098	1/1	0.88	0.22	63,63,63,63	0
57	MG	1A	3790	1/1	0.88	0.14	55,55,55,55	0
57	MG	2A	3375	1/1	0.88	0.21	66,66,66,66	0
57	MG	2A	3379	1/1	0.88	0.17	67,67,67,67	0
57	MG	1A	3678	1/1	0.88	0.10	46,46,46,46	0
57	MG	2l	203	1/1	0.88	0.09	53,53,53,53	0
57	MG	2A	3397	1/1	0.88	0.26	68,68,68,68	0
57	MG	2A	3775	1/1	0.88	0.13	66,66,66,66	0
57	MG	1A	3959	1/1	0.88	0.09	67,67,67,67	0
57	MG	2A	3403	1/1	0.88	0.23	66,66,66,66	0
57	MG	2y	102	1/1	0.88	0.11	74,74,74,74	0
57	MG	2A	3417	1/1	0.88	0.24	71,71,71,71	0
57	MG	1E	308	1/1	0.88	0.08	27,27,27,27	0
57	MG	1A	4066	1/1	0.89	0.13	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3328	1/1	0.89	0.16	66,66,66,66	0
57	MG	2B	210	1/1	0.89	0.16	65,65,65,65	0
57	MG	1Q	204	1/1	0.89	0.10	60,60,60,60	0
57	MG	2B	214	1/1	0.89	0.16	62,62,62,62	0
57	MG	1a	1735	1/1	0.89	0.10	63,63,63,63	0
57	MG	1a	1741	1/1	0.89	0.11	61,61,61,61	0
57	MG	1A	3352	1/1	0.89	0.10	40,40,40,40	0
57	MG	1a	1749	1/1	0.89	0.10	48,48,48,48	0
57	MG	2F	303	1/1	0.89	0.14	59,59,59,59	0
57	MG	1A	3805	1/1	0.89	0.09	26,26,26,26	0
57	MG	1a	1765	1/1	0.89	0.15	65,65,65,65	0
57	MG	2A	3626	1/1	0.89	0.08	48,48,48,48	0
57	MG	1A	3493	1/1	0.89	0.16	61,61,61,61	0
57	MG	25	105	1/1	0.89	0.10	48,48,48,48	0
57	MG	1a	1768	1/1	0.89	0.12	65,65,65,65	0
57	MG	1A	3607	1/1	0.89	0.12	60,60,60,60	0
57	MG	10	107	1/1	0.89	0.17	59,59,59,59	0
57	MG	2A	3365	1/1	0.89	0.18	57,57,57,57	0
57	MG	2a	1604	1/1	0.89	0.29	58,58,58,58	0
57	MG	1A	4084	1/1	0.89	0.09	55,55,55,55	0
57	MG	2A	3666	1/1	0.89	0.10	53,53,53,53	0
57	MG	2a	1616	1/1	0.89	0.15	51,51,51,51	0
57	MG	2A	3667	1/1	0.89	0.09	48,48,48,48	0
57	MG	2A	3191	1/1	0.89	0.22	68,68,68,68	0
57	MG	1A	3983	1/1	0.89	0.14	42,42,42,42	0
57	MG	2a	1626	1/1	0.89	0.21	51,51,51,51	0
57	MG	1A	3906	1/1	0.89	0.13	35,35,35,35	0
57	MG	2a	1633	1/1	0.89	0.14	73,73,73,73	0
57	MG	2a	1636	1/1	0.89	0.32	72,72,72,72	0
57	MG	2A	3377	1/1	0.89	0.11	60,60,60,60	0
57	MG	2A	3378	1/1	0.89	0.22	56,56,56,56	0
57	MG	2A	3217	1/1	0.89	0.24	57,57,57,57	0
57	MG	2A	3684	1/1	0.89	0.18	60,60,60,60	0
57	MG	2a	1671	1/1	0.89	0.16	57,57,57,57	0
57	MG	1A	3913	1/1	0.89	0.11	42,42,42,42	0
57	MG	1A	3992	1/1	0.89	0.12	46,46,46,46	0
57	MG	2A	3400	1/1	0.89	0.17	63,63,63,63	0
57	MG	2A	3692	1/1	0.89	0.19	36,36,36,36	0
57	MG	1a	1603	1/1	0.89	0.12	56,56,56,56	0
57	MG	1A	3006	1/1	0.89	0.15	52,52,52,52	0
57	MG	2A	3413	1/1	0.89	0.16	65,65,65,65	0
57	MG	2A	3706	1/1	0.89	0.09	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3551	1/1	0.89	0.13	56,56,56,56	0
57	MG	1A	3510	1/1	0.89	0.18	63,63,63,63	0
57	MG	2a	1714	1/1	0.89	0.12	67,67,67,67	0
57	MG	2A	3717	1/1	0.89	0.16	51,51,51,51	0
57	MG	2A	3257	1/1	0.89	0.22	59,59,59,59	0
57	MG	1b	302	1/1	0.89	0.10	59,59,59,59	0
57	MG	2a	1726	1/1	0.89	0.27	57,57,57,57	0
57	MG	2A	3260	1/1	0.89	0.19	54,54,54,54	0
57	MG	1A	3700	1/1	0.89	0.09	29,29,29,29	0
57	MG	2A	3435	1/1	0.89	0.23	57,57,57,57	0
57	MG	2A	3740	1/1	0.89	0.14	51,51,51,51	0
57	MG	1A	4024	1/1	0.89	0.11	32,32,32,32	0
57	MG	1A	3767	1/1	0.89	0.07	17,17,17,17	0
57	MG	2a	1746	1/1	0.89	0.11	58,58,58,58	0
57	MG	2a	1749	1/1	0.89	0.10	92,92,92,92	0
57	MG	2A	3443	1/1	0.89	0.27	59,59,59,59	0
57	MG	2A	3447	1/1	0.89	0.23	59,59,59,59	0
57	MG	2A	3284	1/1	0.89	0.10	57,57,57,57	0
57	MG	1B	219	1/1	0.89	0.16	57,57,57,57	0
57	MG	2a	1789	1/1	0.89	0.20	51,51,51,51	0
57	MG	2a	1795	1/1	0.89	0.19	62,62,62,62	0
57	MG	2A	3464	1/1	0.89	0.21	52,52,52,52	0
57	MG	1a	1674	1/1	0.89	0.11	56,56,56,56	0
57	MG	2A	3472	1/1	0.89	0.29	55,55,55,55	0
57	MG	2A	3495	1/1	0.89	0.19	69,69,69,69	0
57	MG	2A	3505	1/1	0.89	0.13	37,37,37,37	0
57	MG	1A	3563	1/1	0.89	0.29	58,58,58,58	0
57	MG	1A	3638	1/1	0.89	0.07	37,37,37,37	0
57	MG	2A	3802	1/1	0.89	0.15	73,73,73,73	0
57	MG	2A	3530	1/1	0.89	0.19	71,71,71,71	0
57	MG	2A	3807	1/1	0.89	0.09	58,58,58,58	0
57	MG	1A	3339	1/1	0.89	0.31	69,69,69,69	0
57	MG	1x	112	1/1	0.89	0.09	46,46,46,46	0
57	MG	1y	102	1/1	0.89	0.25	73,73,73,73	0
57	MG	2A	3816	1/1	0.89	0.12	61,61,61,61	0
57	MG	2A	3308	1/1	0.89	0.22	62,62,62,62	0
57	MG	2A	3818	1/1	0.89	0.16	63,63,63,63	0
57	MG	2A	3542	1/1	0.89	0.10	46,46,46,46	0
57	MG	1A	3451	1/1	0.89	0.18	69,69,69,69	0
57	MG	2A	3560	1/1	0.89	0.09	40,40,40,40	0
57	MG	1A	3888	1/1	0.89	0.11	44,44,44,44	0
57	MG	2A	3317	1/1	0.89	0.18	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2t	201	1/1	0.89	0.21	54,54,54,54	0
57	MG	2A	3567	1/1	0.89	0.12	58,58,58,58	0
57	MG	1A	3526	1/1	0.89	0.11	53,53,53,53	0
57	MG	2A	3322	1/1	0.89	0.14	58,58,58,58	0
57	MG	2w	109	1/1	0.89	0.25	62,62,62,62	0
57	MG	2x	102	1/1	0.89	0.11	67,67,67,67	0
57	MG	1G	203	1/1	0.89	0.09	60,60,60,60	0
57	MG	2A	3067	1/1	0.89	0.15	49,49,49,49	0
57	MG	2y	104	1/1	0.89	0.16	67,67,67,67	0
57	MG	2A	3325	1/1	0.89	0.10	52,52,52,52	0
57	MG	2A	3593	1/1	0.90	0.13	56,56,56,56	0
57	MG	1A	3692	1/1	0.90	0.09	40,40,40,40	0
57	MG	1a	1629	1/1	0.90	0.32	52,52,52,52	0
57	MG	2B	217	1/1	0.90	0.16	77,77,77,77	0
57	MG	1A	3775	1/1	0.90	0.09	37,37,37,37	0
57	MG	1A	3985	1/1	0.90	0.18	49,49,49,49	0
57	MG	2A	3612	1/1	0.90	0.09	35,35,35,35	0
57	MG	1a	1643	1/1	0.90	0.18	59,59,59,59	0
57	MG	1A	3899	1/1	0.90	0.13	30,30,30,30	0
57	MG	1a	1657	1/1	0.90	0.21	56,56,56,56	0
57	MG	1A	3776	1/1	0.90	0.10	38,38,38,38	0
57	MG	2A	3063	1/1	0.90	0.11	62,62,62,62	0
57	MG	2V	201	1/1	0.90	0.14	66,66,66,66	0
57	MG	2V	203	1/1	0.90	0.15	65,65,65,65	0
57	MG	2A	3064	1/1	0.90	0.09	56,56,56,56	0
57	MG	21	101	1/1	0.90	0.25	47,47,47,47	0
57	MG	1A	3294	1/1	0.90	0.17	50,50,50,50	0
57	MG	1a	1676	1/1	0.90	0.29	65,65,65,65	0
57	MG	1A	3994	1/1	0.90	0.12	67,67,67,67	0
57	MG	2A	3642	1/1	0.90	0.11	45,45,45,45	0
57	MG	2A	3643	1/1	0.90	0.12	43,43,43,43	0
57	MG	1a	1688	1/1	0.90	0.12	63,63,63,63	0
57	MG	2a	1608	1/1	0.90	0.23	60,60,60,60	0
57	MG	1A	4115	1/1	0.90	0.11	53,53,53,53	0
57	MG	1a	1697	1/1	0.90	0.19	59,59,59,59	0
57	MG	2A	3118	1/1	0.90	0.10	47,47,47,47	0
57	MG	1A	4118	1/1	0.90	0.13	64,64,64,64	0
57	MG	2a	1619	1/1	0.90	0.18	65,65,65,65	0
57	MG	1A	3377	1/1	0.90	0.11	49,49,49,49	0
57	MG	1A	4122	1/1	0.90	0.14	65,65,65,65	0
57	MG	2A	3675	1/1	0.90	0.09	48,48,48,48	0
57	MG	2a	1630	1/1	0.90	0.14	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3369	1/1	0.90	0.09	53,53,53,53	0
57	MG	2A	3372	1/1	0.90	0.24	60,60,60,60	0
57	MG	1B	207	1/1	0.90	0.15	51,51,51,51	0
57	MG	2a	1641	1/1	0.90	0.35	64,64,64,64	0
57	MG	2a	1643	1/1	0.90	0.24	56,56,56,56	0
57	MG	2a	1645	1/1	0.90	0.31	67,67,67,67	0
57	MG	1B	213	1/1	0.90	0.07	34,34,34,34	0
57	MG	2a	1656	1/1	0.90	0.12	66,66,66,66	0
57	MG	2A	3172	1/1	0.90	0.14	62,62,62,62	0
57	MG	2a	1663	1/1	0.90	0.25	56,56,56,56	0
57	MG	1A	3305	1/1	0.90	0.25	52,52,52,52	0
57	MG	2a	1667	1/1	0.90	0.16	63,63,63,63	0
57	MG	1B	220	1/1	0.90	0.09	47,47,47,47	0
57	MG	1A	4001	1/1	0.90	0.11	64,64,64,64	0
57	MG	2A	3384	1/1	0.90	0.10	53,53,53,53	0
57	MG	1a	1736	1/1	0.90	0.09	45,45,45,45	0
57	MG	2A	3202	1/1	0.90	0.28	62,62,62,62	0
57	MG	1A	4003	1/1	0.90	0.14	23,23,23,23	0
57	MG	1a	1744	1/1	0.90	0.13	67,67,67,67	0
57	MG	2A	3408	1/1	0.90	0.14	65,65,65,65	0
57	MG	2A	3216	1/1	0.90	0.11	70,70,70,70	0
57	MG	1A	3618	1/1	0.90	0.10	31,31,31,31	0
57	MG	2A	3718	1/1	0.90	0.09	49,49,49,49	0
57	MG	2A	3419	1/1	0.90	0.16	69,69,69,69	0
57	MG	2A	3220	1/1	0.90	0.12	45,45,45,45	0
57	MG	2A	3225	1/1	0.90	0.10	44,44,44,44	0
57	MG	2A	3733	1/1	0.90	0.11	51,51,51,51	0
57	MG	2A	3735	1/1	0.90	0.14	56,56,56,56	0
57	MG	1A	3536	1/1	0.90	0.21	57,57,57,57	0
57	MG	1A	3168	1/1	0.90	0.30	42,42,42,42	0
57	MG	1A	4025	1/1	0.90	0.07	34,34,34,34	0
57	MG	2a	1729	1/1	0.90	0.12	59,59,59,59	0
57	MG	1A	4027	1/1	0.90	0.08	61,61,61,61	0
57	MG	2a	1735	1/1	0.90	0.10	65,65,65,65	0
57	MG	1A	3252	1/1	0.90	0.11	56,56,56,56	0
57	MG	1A	3253	1/1	0.90	0.12	64,64,64,64	0
57	MG	1A	3458	1/1	0.90	0.09	38,38,38,38	0
57	MG	1A	3841	1/1	0.90	0.13	60,60,60,60	0
57	MG	1S	202	1/1	0.90	0.10	53,53,53,53	0
57	MG	2a	1753	1/1	0.90	0.09	60,60,60,60	0
57	MG	2A	3754	1/1	0.90	0.11	52,52,52,52	0
57	MG	2A	3455	1/1	0.90	0.36	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3205	1/1	0.90	0.20	50,50,50,50	0
57	MG	2a	1775	1/1	0.90	0.09	66,66,66,66	0
57	MG	2A	3461	1/1	0.90	0.31	56,56,56,56	0
57	MG	2A	3766	1/1	0.90	0.10	50,50,50,50	0
57	MG	1Y	201	1/1	0.90	0.08	40,40,40,40	0
57	MG	2A	3770	1/1	0.90	0.12	62,62,62,62	0
57	MG	1a	1791	1/1	0.90	0.12	67,67,67,67	0
57	MG	1A	3940	1/1	0.90	0.10	33,33,33,33	0
57	MG	2A	3494	1/1	0.90	0.14	57,57,57,57	0
57	MG	2A	3798	1/1	0.90	0.10	56,56,56,56	0
57	MG	1A	3944	1/1	0.90	0.10	40,40,40,40	0
57	MG	1A	3472	1/1	0.90	0.17	61,61,61,61	0
57	MG	1A	3291	1/1	0.90	0.12	41,41,41,41	0
57	MG	2a	1818	1/1	0.90	0.15	55,55,55,55	0
57	MG	2A	3290	1/1	0.90	0.20	67,67,67,67	0
57	MG	1a	1817	1/1	0.90	0.09	66,66,66,66	0
57	MG	2A	3295	1/1	0.90	0.11	66,66,66,66	0
57	MG	1A	3955	1/1	0.90	0.09	54,54,54,54	0
57	MG	1A	3344	1/1	0.90	0.18	51,51,51,51	0
57	MG	2A	3299	1/1	0.90	0.23	69,69,69,69	0
57	MG	2A	3302	1/1	0.90	0.10	50,50,50,50	0
57	MG	2a	1835	1/1	0.90	0.24	57,57,57,57	0
57	MG	2A	3543	1/1	0.90	0.10	41,41,41,41	0
57	MG	2A	3830	1/1	0.90	0.12	57,57,57,57	0
57	MG	2A	3831	1/1	0.90	0.11	63,63,63,63	0
57	MG	2g	201	1/1	0.90	0.08	65,65,65,65	0
57	MG	1A	3763	1/1	0.90	0.08	32,32,32,32	0
57	MG	2j	202	1/1	0.90	0.10	69,69,69,69	0
57	MG	2A	3554	1/1	0.90	0.14	37,37,37,37	0
57	MG	2q	202	1/1	0.90	0.09	62,62,62,62	0
57	MG	1A	3189	1/1	0.90	0.17	54,54,54,54	0
57	MG	1A	3685	1/1	0.90	0.06	24,24,24,24	0
57	MG	2v	103	1/1	0.90	0.34	63,63,63,63	0
57	MG	2A	3311	1/1	0.90	0.20	48,48,48,48	0
57	MG	2A	3313	1/1	0.90	0.18	57,57,57,57	0
57	MG	2A	3878	1/1	0.90	0.11	50,50,50,50	0
57	MG	2A	3314	1/1	0.90	0.20	57,57,57,57	0
57	MG	1a	1608	1/1	0.90	0.28	62,62,62,62	0
57	MG	2x	104	1/1	0.90	0.18	56,56,56,56	0
57	MG	1A	3245	1/1	0.90	0.14	53,53,53,53	0
57	MG	2B	202	1/1	0.90	0.12	58,58,58,58	0
57	MG	2A	3320	1/1	0.90	0.10	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2y	105	1/1	0.90	0.08	94,94,94,94	0
57	MG	1a	1625	1/1	0.90	0.25	55,55,55,55	0
57	MG	2A	3876	1/1	0.91	0.08	49,49,49,49	0
57	MG	2A	3519	1/1	0.91	0.30	67,67,67,67	0
57	MG	2A	3527	1/1	0.91	0.11	54,54,54,54	0
57	MG	1A	3824	1/1	0.91	0.18	56,56,56,56	0
57	MG	1A	3469	1/1	0.91	0.10	58,58,58,58	0
57	MG	1A	3843	1/1	0.91	0.07	40,40,40,40	0
57	MG	2A	3276	1/1	0.91	0.15	56,56,56,56	0
57	MG	1A	3710	1/1	0.91	0.10	28,28,28,28	0
57	MG	1A	3598	1/1	0.91	0.14	54,54,54,54	0
57	MG	1A	3719	1/1	0.91	0.20	52,52,52,52	0
57	MG	1B	228	1/1	0.91	0.10	67,67,67,67	0
57	MG	2B	216	1/1	0.91	0.12	60,60,60,60	0
57	MG	2A	3551	1/1	0.91	0.10	55,55,55,55	0
57	MG	2A	3552	1/1	0.91	0.13	43,43,43,43	0
57	MG	2A	3553	1/1	0.91	0.13	48,48,48,48	0
57	MG	2A	3286	1/1	0.91	0.10	48,48,48,48	0
57	MG	1A	3311	1/1	0.91	0.09	56,56,56,56	0
57	MG	1D	301	1/1	0.91	0.25	42,42,42,42	0
57	MG	1A	3026	1/1	0.91	0.10	42,42,42,42	0
57	MG	2G	201	1/1	0.91	0.12	61,61,61,61	0
57	MG	1A	3500	1/1	0.91	0.11	54,54,54,54	0
57	MG	2Q	202	1/1	0.91	0.19	54,54,54,54	0
57	MG	1A	4004	1/1	0.91	0.10	39,39,39,39	0
57	MG	1A	3320	1/1	0.91	0.22	27,27,27,27	0
57	MG	2A	3575	1/1	0.91	0.11	40,40,40,40	0
57	MG	2W	201	1/1	0.91	0.16	60,60,60,60	0
57	MG	1A	4012	1/1	0.91	0.16	51,51,51,51	0
57	MG	1A	4013	1/1	0.91	0.12	58,58,58,58	0
57	MG	2A	3582	1/1	0.91	0.16	54,54,54,54	0
57	MG	2A	3584	1/1	0.91	0.12	53,53,53,53	0
57	MG	1R	203	1/1	0.91	0.12	26,26,26,26	0
57	MG	2A	3590	1/1	0.91	0.23	59,59,59,59	0
57	MG	1A	4016	1/1	0.91	0.07	51,51,51,51	0
57	MG	2A	3307	1/1	0.91	0.08	63,63,63,63	0
57	MG	2a	1605	1/1	0.91	0.23	62,62,62,62	0
57	MG	2a	1606	1/1	0.91	0.14	53,53,53,53	0
57	MG	2a	1607	1/1	0.91	0.17	56,56,56,56	0
57	MG	1a	1815	1/1	0.91	0.07	48,48,48,48	0
57	MG	2A	3309	1/1	0.91	0.07	58,58,58,58	0
57	MG	1A	4017	1/1	0.91	0.10	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3610	1/1	0.91	0.15	60,60,60,60	0
57	MG	2A	3611	1/1	0.91	0.07	36,36,36,36	0
57	MG	1T	202	1/1	0.91	0.14	53,53,53,53	0
57	MG	1A	3734	1/1	0.91	0.16	64,64,64,64	0
57	MG	1A	3505	1/1	0.91	0.15	56,56,56,56	0
57	MG	1A	3617	1/1	0.91	0.09	42,42,42,42	0
57	MG	2a	1628	1/1	0.91	0.17	58,58,58,58	0
57	MG	1A	3185	1/1	0.91	0.24	54,54,54,54	0
57	MG	2A	3319	1/1	0.91	0.22	42,42,42,42	0
57	MG	1w	106	1/1	0.91	0.20	60,60,60,60	0
57	MG	2A	3629	1/1	0.91	0.08	34,34,34,34	0
57	MG	1A	3392	1/1	0.91	0.12	61,61,61,61	0
57	MG	2a	1642	1/1	0.91	0.20	64,64,64,64	0
57	MG	1A	3333	1/1	0.91	0.09	43,43,43,43	0
57	MG	1x	108	1/1	0.91	0.14	59,59,59,59	0
57	MG	1A	4039	1/1	0.91	0.07	45,45,45,45	0
57	MG	2a	1655	1/1	0.91	0.10	58,58,58,58	0
57	MG	1A	3904	1/1	0.91	0.20	67,67,67,67	0
57	MG	1A	4044	1/1	0.91	0.11	74,74,74,74	0
57	MG	1A	3411	1/1	0.91	0.08	38,38,38,38	0
57	MG	1A	3764	1/1	0.91	0.10	59,59,59,59	0
57	MG	2A	3334	1/1	0.91	0.11	42,42,42,42	0
57	MG	2A	3336	1/1	0.91	0.17	61,61,61,61	0
57	MG	1A	4052	1/1	0.91	0.07	40,40,40,40	0
57	MG	1A	3414	1/1	0.91	0.09	49,49,49,49	0
57	MG	2A	3017	1/1	0.91	0.10	46,46,46,46	0
57	MG	2a	1683	1/1	0.91	0.21	53,53,53,53	0
57	MG	1a	1620	1/1	0.91	0.26	62,62,62,62	0
57	MG	2A	3050	1/1	0.91	0.14	61,61,61,61	0
57	MG	1A	4058	1/1	0.91	0.13	42,42,42,42	0
57	MG	1A	3242	1/1	0.91	0.21	59,59,59,59	0
57	MG	1A	3650	1/1	0.91	0.18	55,55,55,55	0
57	MG	2A	3356	1/1	0.91	0.06	66,66,66,66	0
57	MG	2A	3066	1/1	0.91	0.18	53,53,53,53	0
57	MG	2A	3359	1/1	0.91	0.15	52,52,52,52	0
57	MG	1A	3427	1/1	0.91	0.08	48,48,48,48	0
57	MG	2A	3074	1/1	0.91	0.15	59,59,59,59	0
57	MG	2A	3079	1/1	0.91	0.11	55,55,55,55	0
57	MG	2a	1723	1/1	0.91	0.18	69,69,69,69	0
57	MG	2A	3701	1/1	0.91	0.11	73,73,73,73	0
57	MG	2A	3080	1/1	0.91	0.13	57,57,57,57	0
57	MG	1A	3428	1/1	0.91	0.10	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3370	1/1	0.91	0.11	60,60,60,60	0
57	MG	2A	3094	1/1	0.91	0.11	40,40,40,40	0
57	MG	2a	1730	1/1	0.91	0.18	53,53,53,53	0
57	MG	2a	1732	1/1	0.91	0.23	62,62,62,62	0
57	MG	1A	3932	1/1	0.91	0.11	69,69,69,69	0
57	MG	1a	1645	1/1	0.91	0.17	65,65,65,65	0
57	MG	2A	3109	1/1	0.91	0.12	47,47,47,47	0
57	MG	1A	4074	1/1	0.91	0.27	53,53,53,53	0
57	MG	2A	3728	1/1	0.91	0.10	53,53,53,53	0
57	MG	1A	4081	1/1	0.91	0.08	44,44,44,44	0
57	MG	2a	1748	1/1	0.91	0.09	59,59,59,59	0
57	MG	1A	3548	1/1	0.91	0.23	57,57,57,57	0
57	MG	1a	1669	1/1	0.91	0.17	56,56,56,56	0
57	MG	2A	3386	1/1	0.91	0.12	57,57,57,57	0
57	MG	2A	3388	1/1	0.91	0.23	52,52,52,52	0
57	MG	1A	3260	1/1	0.91	0.18	56,56,56,56	0
57	MG	2A	3142	1/1	0.91	0.19	56,56,56,56	0
57	MG	2A	3745	1/1	0.91	0.10	60,60,60,60	0
57	MG	2A	3146	1/1	0.91	0.19	55,55,55,55	0
57	MG	2a	1791	1/1	0.91	0.20	66,66,66,66	0
57	MG	2a	1794	1/1	0.91	0.12	57,57,57,57	0
57	MG	1a	1675	1/1	0.91	0.10	55,55,55,55	0
57	MG	2a	1796	1/1	0.91	0.10	54,54,54,54	0
57	MG	1A	3445	1/1	0.91	0.09	25,25,25,25	0
57	MG	2A	3156	1/1	0.91	0.15	50,50,50,50	0
57	MG	2a	1799	1/1	0.91	0.14	59,59,59,59	0
57	MG	2A	3164	1/1	0.91	0.12	60,60,60,60	0
57	MG	1A	3796	1/1	0.91	0.07	38,38,38,38	0
57	MG	1A	3337	1/1	0.91	0.13	55,55,55,55	0
57	MG	2A	3759	1/1	0.91	0.10	39,39,39,39	0
57	MG	1a	1690	1/1	0.91	0.14	54,54,54,54	0
57	MG	2a	1808	1/1	0.91	0.14	62,62,62,62	0
57	MG	2a	1813	1/1	0.91	0.19	58,58,58,58	0
57	MG	2A	3179	1/1	0.91	0.12	47,47,47,47	0
57	MG	1A	3688	1/1	0.91	0.07	43,43,43,43	0
57	MG	1A	3804	1/1	0.91	0.14	32,32,32,32	0
57	MG	2a	1824	1/1	0.91	0.18	54,54,54,54	0
57	MG	2A	3433	1/1	0.91	0.18	55,55,55,55	0
57	MG	2A	3434	1/1	0.91	0.20	52,52,52,52	0
57	MG	1A	3564	1/1	0.91	0.16	42,42,42,42	0
57	MG	2A	3193	1/1	0.91	0.11	60,60,60,60	0
57	MG	2A	3796	1/1	0.91	0.13	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3440	1/1	0.91	0.27	54,54,54,54	0
57	MG	1A	3957	1/1	0.91	0.09	28,28,28,28	0
57	MG	2A	3210	1/1	0.91	0.12	48,48,48,48	0
57	MG	2A	3446	1/1	0.91	0.30	56,56,56,56	0
57	MG	1A	4110	1/1	0.91	0.17	50,50,50,50	0
57	MG	2d	302	1/1	0.91	0.09	61,61,61,61	0
57	MG	2f	202	1/1	0.91	0.10	57,57,57,57	0
57	MG	2A	3448	1/1	0.91	0.16	56,56,56,56	0
57	MG	1a	1711	1/1	0.91	0.14	60,60,60,60	0
57	MG	1a	1713	1/1	0.91	0.16	59,59,59,59	0
57	MG	1a	1714	1/1	0.91	0.13	58,58,58,58	0
57	MG	1a	1719	1/1	0.91	0.15	44,44,44,44	0
57	MG	1A	3806	1/1	0.91	0.08	30,30,30,30	0
57	MG	2A	3822	1/1	0.91	0.10	60,60,60,60	0
57	MG	1A	3200	1/1	0.91	0.08	44,44,44,44	0
57	MG	1A	3579	1/1	0.91	0.15	46,46,46,46	0
57	MG	1A	3310	1/1	0.91	0.18	54,54,54,54	0
57	MG	2w	104	1/1	0.91	0.14	60,60,60,60	0
57	MG	2A	3835	1/1	0.91	0.11	44,44,44,44	0
57	MG	2w	106	1/1	0.91	0.19	52,52,52,52	0
57	MG	1A	3820	1/1	0.91	0.10	61,61,61,61	0
57	MG	2x	101	1/1	0.91	0.17	51,51,51,51	0
57	MG	1A	3702	1/1	0.91	0.08	20,20,20,20	0
57	MG	2A	3506	1/1	0.91	0.14	51,51,51,51	0
57	MG	2A	3862	1/1	0.91	0.08	52,52,52,52	0
57	MG	1A	3822	1/1	0.91	0.20	67,67,67,67	0
57	MG	2A	3866	1/1	0.91	0.08	54,54,54,54	0
57	MG	2A	3516	1/1	0.91	0.12	49,49,49,49	0
57	MG	1B	210	1/1	0.91	0.07	48,48,48,48	0
57	MG	2A	3809	1/1	0.92	0.08	53,53,53,53	0
57	MG	2A	3122	1/1	0.92	0.19	57,57,57,57	0
57	MG	2A	3409	1/1	0.92	0.18	54,54,54,54	0
57	MG	1A	3792	1/1	0.92	0.07	67,67,67,67	0
57	MG	2A	3125	1/1	0.92	0.16	49,49,49,49	0
57	MG	2A	3128	1/1	0.92	0.20	52,52,52,52	0
57	MG	1a	1684	1/1	0.92	0.20	59,59,59,59	0
57	MG	2A	3137	1/1	0.92	0.25	57,57,57,57	0
57	MG	2A	3140	1/1	0.92	0.19	59,59,59,59	0
57	MG	2A	3426	1/1	0.92	0.20	57,57,57,57	0
57	MG	1a	1685	1/1	0.92	0.22	61,61,61,61	0
57	MG	1A	3668	1/1	0.92	0.07	27,27,27,27	0
57	MG	2A	3834	1/1	0.92	0.12	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3432	1/1	0.92	0.17	42,42,42,42	0
57	MG	2A	3147	1/1	0.92	0.17	49,49,49,49	0
57	MG	1A	3669	1/1	0.92	0.06	19,19,19,19	0
57	MG	1A	3671	1/1	0.92	0.09	46,46,46,46	0
57	MG	1a	1692	1/1	0.92	0.22	50,50,50,50	0
57	MG	1A	3436	1/1	0.92	0.13	60,60,60,60	0
57	MG	2A	3864	1/1	0.92	0.11	52,52,52,52	0
57	MG	1A	3059	1/1	0.92	0.10	48,48,48,48	0
57	MG	1a	1702	1/1	0.92	0.21	55,55,55,55	0
57	MG	1A	3549	1/1	0.92	0.11	42,42,42,42	0
57	MG	2A	3873	1/1	0.92	0.07	44,44,44,44	0
57	MG	2A	3176	1/1	0.92	0.09	58,58,58,58	0
57	MG	1A	3968	1/1	0.92	0.08	48,48,48,48	0
57	MG	2A	3451	1/1	0.92	0.20	58,58,58,58	0
57	MG	2A	3886	1/1	0.92	0.08	50,50,50,50	0
57	MG	1a	1709	1/1	0.92	0.13	54,54,54,54	0
57	MG	2A	3184	1/1	0.92	0.14	49,49,49,49	0
57	MG	2A	3891	1/1	0.92	0.12	55,55,55,55	0
57	MG	1A	3971	1/1	0.92	0.10	48,48,48,48	0
57	MG	1A	3550	1/1	0.92	0.11	55,55,55,55	0
57	MG	2B	204	1/1	0.92	0.21	72,72,72,72	0
57	MG	2B	206	1/1	0.92	0.20	58,58,58,58	0
57	MG	1A	3313	1/1	0.92	0.19	54,54,54,54	0
57	MG	2A	3195	1/1	0.92	0.12	56,56,56,56	0
57	MG	2A	3470	1/1	0.92	0.27	59,59,59,59	0
57	MG	2A	3199	1/1	0.92	0.17	54,54,54,54	0
57	MG	2A	3477	1/1	0.92	0.35	57,57,57,57	0
57	MG	2A	3200	1/1	0.92	0.14	56,56,56,56	0
57	MG	1a	1718	1/1	0.92	0.21	45,45,45,45	0
57	MG	2B	219	1/1	0.92	0.24	64,64,64,64	0
57	MG	2A	3502	1/1	0.92	0.10	62,62,62,62	0
57	MG	2A	3503	1/1	0.92	0.10	52,52,52,52	0
57	MG	2D	307	1/1	0.92	0.29	52,52,52,52	0
57	MG	2E	304	1/1	0.92	0.11	37,37,37,37	0
57	MG	2A	3504	1/1	0.92	0.09	51,51,51,51	0
57	MG	2F	302	1/1	0.92	0.10	45,45,45,45	0
57	MG	2A	3209	1/1	0.92	0.09	43,43,43,43	0
57	MG	1A	3457	1/1	0.92	0.19	56,56,56,56	0
57	MG	1A	3170	1/1	0.92	0.07	41,41,41,41	0
57	MG	2A	3508	1/1	0.92	0.07	38,38,38,38	0
57	MG	2A	3509	1/1	0.92	0.14	53,53,53,53	0
57	MG	1A	3694	1/1	0.92	0.09	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2R	202	1/1	0.92	0.12	53,53,53,53	0
57	MG	2T	201	1/1	0.92	0.12	58,58,58,58	0
57	MG	2U	202	1/1	0.92	0.18	46,46,46,46	0
57	MG	1A	3697	1/1	0.92	0.10	35,35,35,35	0
57	MG	1B	218	1/1	0.92	0.19	52,52,52,52	0
57	MG	2A	3525	1/1	0.92	0.06	39,39,39,39	0
57	MG	1a	1728	1/1	0.92	0.12	65,65,65,65	0
57	MG	2A	3221	1/1	0.92	0.14	50,50,50,50	0
57	MG	25	103	1/1	0.92	0.12	50,50,50,50	0
57	MG	2A	3224	1/1	0.92	0.10	57,57,57,57	0
57	MG	1A	3287	1/1	0.92	0.10	48,48,48,48	0
57	MG	1A	3832	1/1	0.92	0.07	30,30,30,30	0
57	MG	1A	3835	1/1	0.92	0.13	47,47,47,47	0
57	MG	2A	3229	1/1	0.92	0.21	60,60,60,60	0
57	MG	1a	1742	1/1	0.92	0.10	55,55,55,55	0
57	MG	2A	3236	1/1	0.92	0.16	50,50,50,50	0
57	MG	2A	3548	1/1	0.92	0.11	32,32,32,32	0
57	MG	2A	3242	1/1	0.92	0.22	50,50,50,50	0
57	MG	1A	3836	1/1	0.92	0.13	52,52,52,52	0
57	MG	2A	3246	1/1	0.92	0.13	57,57,57,57	0
57	MG	1A	3468	1/1	0.92	0.10	53,53,53,53	0
57	MG	2a	1615	1/1	0.92	0.17	59,59,59,59	0
57	MG	2A	3557	1/1	0.92	0.17	45,45,45,45	0
57	MG	2a	1617	1/1	0.92	0.14	55,55,55,55	0
57	MG	2A	3558	1/1	0.92	0.11	61,61,61,61	0
57	MG	2A	3253	1/1	0.92	0.24	59,59,59,59	0
57	MG	1A	3573	1/1	0.92	0.16	49,49,49,49	0
57	MG	1B	231	1/1	0.92	0.12	67,67,67,67	0
57	MG	2a	1622	1/1	0.92	0.17	59,59,59,59	0
57	MG	2a	1624	1/1	0.92	0.10	51,51,51,51	0
57	MG	1A	3222	1/1	0.92	0.10	37,37,37,37	0
57	MG	2a	1627	1/1	0.92	0.15	57,57,57,57	0
57	MG	2A	3259	1/1	0.92	0.14	52,52,52,52	0
57	MG	2A	3569	1/1	0.92	0.07	37,37,37,37	0
57	MG	1A	4005	1/1	0.92	0.13	36,36,36,36	0
57	MG	2a	1632	1/1	0.92	0.18	50,50,50,50	0
57	MG	2A	3264	1/1	0.92	0.18	54,54,54,54	0
57	MG	1a	1767	1/1	0.92	0.08	45,45,45,45	0
57	MG	2A	3275	1/1	0.92	0.09	51,51,51,51	0
57	MG	1A	4007	1/1	0.92	0.08	37,37,37,37	0
57	MG	1a	1769	1/1	0.92	0.22	62,62,62,62	0
57	MG	1A	3580	1/1	0.92	0.12	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1776	1/1	0.92	0.10	56,56,56,56	0
57	MG	2a	1648	1/1	0.92	0.13	59,59,59,59	0
57	MG	1A	4010	1/1	0.92	0.09	74,74,74,74	0
57	MG	1A	4011	1/1	0.92	0.12	49,49,49,49	0
57	MG	1A	3713	1/1	0.92	0.11	31,31,31,31	0
57	MG	2a	1661	1/1	0.92	0.21	60,60,60,60	0
57	MG	1a	1785	1/1	0.92	0.10	63,63,63,63	0
57	MG	2A	3603	1/1	0.92	0.13	55,55,55,55	0
57	MG	1Q	207	1/1	0.92	0.14	41,41,41,41	0
57	MG	2A	3606	1/1	0.92	0.09	62,62,62,62	0
57	MG	2A	3291	1/1	0.92	0.14	52,52,52,52	0
57	MG	1A	3590	1/1	0.92	0.23	43,43,43,43	0
57	MG	1A	3470	1/1	0.92	0.14	51,51,51,51	0
57	MG	2A	3296	1/1	0.92	0.25	69,69,69,69	0
57	MG	2a	1684	1/1	0.92	0.20	56,56,56,56	0
57	MG	2A	3614	1/1	0.92	0.08	40,40,40,40	0
57	MG	2A	3616	1/1	0.92	0.10	40,40,40,40	0
57	MG	2a	1692	1/1	0.92	0.10	60,60,60,60	0
57	MG	1A	3863	1/1	0.92	0.10	20,20,20,20	0
57	MG	1A	4018	1/1	0.92	0.08	42,42,42,42	0
57	MG	2a	1706	1/1	0.92	0.13	60,60,60,60	0
57	MG	1S	203	1/1	0.92	0.08	62,62,62,62	0
57	MG	1A	3327	1/1	0.92	0.11	48,48,48,48	0
57	MG	1a	1809	1/1	0.92	0.11	65,65,65,65	0
57	MG	1a	1810	1/1	0.92	0.13	57,57,57,57	0
57	MG	1U	203	1/1	0.92	0.06	47,47,47,47	0
57	MG	2a	1715	1/1	0.92	0.12	61,61,61,61	0
57	MG	1A	3881	1/1	0.92	0.19	46,46,46,46	0
57	MG	2A	3639	1/1	0.92	0.14	50,50,50,50	0
57	MG	1X	107	1/1	0.92	0.07	40,40,40,40	0
57	MG	1A	3486	1/1	0.92	0.13	51,51,51,51	0
57	MG	2a	1725	1/1	0.92	0.11	53,53,53,53	0
57	MG	1Z	301	1/1	0.92	0.12	51,51,51,51	0
57	MG	1A	4026	1/1	0.92	0.10	60,60,60,60	0
57	MG	2A	3649	1/1	0.92	0.11	39,39,39,39	0
57	MG	1A	3487	1/1	0.92	0.10	55,55,55,55	0
57	MG	1w	101	1/1	0.92	0.07	47,47,47,47	0
57	MG	2A	3318	1/1	0.92	0.12	43,43,43,43	0
57	MG	1A	3393	1/1	0.92	0.10	51,51,51,51	0
57	MG	2A	3668	1/1	0.92	0.10	57,57,57,57	0
57	MG	1w	107	1/1	0.92	0.12	59,59,59,59	0
57	MG	2A	3671	1/1	0.92	0.16	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	11	106	1/1	0.92	0.08	46,46,46,46	0
57	MG	1A	3895	1/1	0.92	0.12	25,25,25,25	0
57	MG	2A	3676	1/1	0.92	0.12	53,53,53,53	0
57	MG	1A	3408	1/1	0.92	0.11	51,51,51,51	0
57	MG	1A	3409	1/1	0.92	0.18	53,53,53,53	0
57	MG	1A	4042	1/1	0.92	0.09	67,67,67,67	0
57	MG	2A	3681	1/1	0.92	0.08	43,43,43,43	0
57	MG	2a	1765	1/1	0.92	0.09	75,75,75,75	0
57	MG	2a	1769	1/1	0.92	0.08	66,66,66,66	0
57	MG	1a	1601	1/1	0.92	0.12	54,54,54,54	0
57	MG	1A	3742	1/1	0.92	0.13	51,51,51,51	0
57	MG	2a	1779	1/1	0.92	0.09	50,50,50,50	0
57	MG	2A	3329	1/1	0.92	0.11	54,54,54,54	0
57	MG	2a	1784	1/1	0.92	0.16	45,45,45,45	0
57	MG	2a	1787	1/1	0.92	0.11	50,50,50,50	0
57	MG	1y	101	1/1	0.92	0.09	60,60,60,60	0
57	MG	2A	3333	1/1	0.92	0.23	59,59,59,59	0
57	MG	2a	1793	1/1	0.92	0.15	47,47,47,47	0
57	MG	1A	3332	1/1	0.92	0.13	60,60,60,60	0
57	MG	2A	3335	1/1	0.92	0.10	60,60,60,60	0
57	MG	1A	3063	1/1	0.92	0.15	45,45,45,45	0
57	MG	2A	3003	1/1	0.92	0.27	52,52,52,52	0
57	MG	1A	3520	1/1	0.92	0.11	47,47,47,47	0
57	MG	2A	3703	1/1	0.92	0.11	52,52,52,52	0
57	MG	1A	3091	1/1	0.92	0.09	68,68,68,68	0
57	MG	2A	3709	1/1	0.92	0.09	59,59,59,59	0
57	MG	2A	3343	1/1	0.92	0.10	59,59,59,59	0
57	MG	2A	3344	1/1	0.92	0.24	60,60,60,60	0
57	MG	2A	3023	1/1	0.92	0.13	57,57,57,57	0
57	MG	1a	1623	1/1	0.92	0.28	55,55,55,55	0
57	MG	2a	1809	1/1	0.92	0.13	59,59,59,59	0
57	MG	2A	3030	1/1	0.92	0.09	56,56,56,56	0
57	MG	1A	3068	1/1	0.92	0.07	43,43,43,43	0
57	MG	2A	3722	1/1	0.92	0.08	56,56,56,56	0
57	MG	2A	3353	1/1	0.92	0.17	63,63,63,63	0
57	MG	2a	1823	1/1	0.92	0.23	49,49,49,49	0
57	MG	2A	3054	1/1	0.92	0.08	54,54,54,54	0
57	MG	2A	3732	1/1	0.92	0.12	56,56,56,56	0
57	MG	2A	3057	1/1	0.92	0.20	51,51,51,51	0
57	MG	1A	3635	1/1	0.92	0.07	18,18,18,18	0
57	MG	2A	3059	1/1	0.92	0.15	53,53,53,53	0
57	MG	1A	3524	1/1	0.92	0.18	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3421	1/1	0.92	0.20	53,53,53,53	0
57	MG	1a	1636	1/1	0.92	0.12	46,46,46,46	0
57	MG	1A	4069	1/1	0.92	0.07	47,47,47,47	0
57	MG	1a	1639	1/1	0.92	0.16	52,52,52,52	0
57	MG	1A	3529	1/1	0.92	0.08	35,35,35,35	0
57	MG	1A	3141	1/1	0.92	0.09	43,43,43,43	0
57	MG	2A	3085	1/1	0.92	0.14	57,57,57,57	0
57	MG	1A	3203	1/1	0.92	0.10	55,55,55,55	0
57	MG	2A	3376	1/1	0.92	0.19	56,56,56,56	0
57	MG	2A	3091	1/1	0.92	0.09	68,68,68,68	0
57	MG	1A	3655	1/1	0.92	0.07	31,31,31,31	0
57	MG	2q	201	1/1	0.92	0.23	61,61,61,61	0
57	MG	2A	3761	1/1	0.92	0.14	56,56,56,56	0
57	MG	1A	3343	1/1	0.92	0.17	47,47,47,47	0
57	MG	2A	3105	1/1	0.92	0.19	67,67,67,67	0
57	MG	2v	101	1/1	0.92	0.26	59,59,59,59	0
57	MG	1a	1661	1/1	0.92	0.13	56,56,56,56	0
57	MG	2A	3107	1/1	0.92	0.12	53,53,53,53	0
57	MG	1A	4083	1/1	0.92	0.06	15,15,15,15	0
57	MG	2A	3392	1/1	0.92	0.08	48,48,48,48	0
57	MG	2A	3393	1/1	0.92	0.11	52,52,52,52	0
57	MG	2A	3781	1/1	0.92	0.10	67,67,67,67	0
57	MG	2A	3788	1/1	0.92	0.11	54,54,54,54	0
57	MG	2A	3790	1/1	0.92	0.09	76,76,76,76	0
57	MG	2A	3394	1/1	0.92	0.24	53,53,53,53	0
57	MG	1A	3788	1/1	0.92	0.12	36,36,36,36	0
57	MG	2x	105	1/1	0.92	0.10	52,52,52,52	0
57	MG	1A	3789	1/1	0.92	0.12	54,54,54,54	0
57	MG	2A	3799	1/1	0.92	0.08	71,71,71,71	0
57	MG	2A	3117	1/1	0.92	0.15	47,47,47,47	0
57	MG	1A	3667	1/1	0.92	0.07	25,25,25,25	0
57	MG	2A	3407	1/1	0.92	0.12	53,53,53,53	0
57	MG	1A	3642	1/1	0.93	0.07	39,39,39,39	0
57	MG	2A	3547	1/1	0.93	0.10	54,54,54,54	0
57	MG	1A	3753	1/1	0.93	0.06	17,17,17,17	0
57	MG	1A	3440	1/1	0.93	0.12	51,51,51,51	0
57	MG	1A	3758	1/1	0.93	0.09	36,36,36,36	0
57	MG	1w	110	1/1	0.93	0.10	65,65,65,65	0
57	MG	1A	3229	1/1	0.93	0.15	58,58,58,58	0
57	MG	1x	102	1/1	0.93	0.23	42,42,42,42	0
57	MG	1A	3378	1/1	0.93	0.12	46,46,46,46	0
57	MG	1A	3540	1/1	0.93	0.28	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2E	301	1/1	0.93	0.22	63,63,63,63	0
57	MG	1A	3453	1/1	0.93	0.12	45,45,45,45	0
57	MG	1A	4061	1/1	0.93	0.12	51,51,51,51	0
57	MG	2A	3566	1/1	0.93	0.08	42,42,42,42	0
57	MG	1A	3455	1/1	0.93	0.07	49,49,49,49	0
57	MG	1a	1624	1/1	0.93	0.31	58,58,58,58	0
57	MG	2A	3301	1/1	0.93	0.08	45,45,45,45	0
57	MG	1x	113	1/1	0.93	0.14	64,64,64,64	0
57	MG	1A	3665	1/1	0.93	0.15	54,54,54,54	0
57	MG	1a	1626	1/1	0.93	0.09	53,53,53,53	0
57	MG	2Q	205	1/1	0.93	0.12	42,42,42,42	0
57	MG	1A	3770	1/1	0.93	0.09	24,24,24,24	0
57	MG	2A	3579	1/1	0.93	0.09	31,31,31,31	0
57	MG	2A	3001	1/1	0.93	0.10	42,42,42,42	0
57	MG	1A	3918	1/1	0.93	0.07	48,48,48,48	0
57	MG	2A	3004	1/1	0.93	0.18	54,54,54,54	0
57	MG	2A	3006	1/1	0.93	0.24	53,53,53,53	0
57	MG	1a	1634	1/1	0.93	0.25	57,57,57,57	0
57	MG	2X	102	1/1	0.93	0.23	66,66,66,66	0
57	MG	2Z	301	1/1	0.93	0.09	70,70,70,70	0
57	MG	1A	4071	1/1	0.93	0.10	28,28,28,28	0
57	MG	23	101	1/1	0.93	0.18	55,55,55,55	0
57	MG	25	101	1/1	0.93	0.13	44,44,44,44	0
57	MG	2A	3598	1/1	0.93	0.11	55,55,55,55	0
57	MG	2A	3022	1/1	0.93	0.20	69,69,69,69	0
57	MG	1A	3382	1/1	0.93	0.07	45,45,45,45	0
57	MG	1a	1637	1/1	0.93	0.24	51,51,51,51	0
57	MG	1A	3233	1/1	0.93	0.24	37,37,37,37	0
57	MG	2A	3036	1/1	0.93	0.12	47,47,47,47	0
57	MG	2A	3043	1/1	0.93	0.12	55,55,55,55	0
57	MG	2A	3046	1/1	0.93	0.07	42,42,42,42	0
57	MG	1A	3460	1/1	0.93	0.17	55,55,55,55	0
57	MG	2A	3052	1/1	0.93	0.16	55,55,55,55	0
57	MG	1a	1640	1/1	0.93	0.20	55,55,55,55	0
57	MG	2A	3056	1/1	0.93	0.17	49,49,49,49	0
57	MG	1A	4077	1/1	0.93	0.07	41,41,41,41	0
57	MG	2a	1612	1/1	0.93	0.20	53,53,53,53	0
57	MG	1A	3269	1/1	0.93	0.30	48,48,48,48	0
57	MG	1a	1650	1/1	0.93	0.21	61,61,61,61	0
57	MG	1A	3781	1/1	0.93	0.08	19,19,19,19	0
57	MG	1A	3672	1/1	0.93	0.07	40,40,40,40	0
57	MG	1A	3937	1/1	0.93	0.07	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3462	1/1	0.93	0.13	49,49,49,49	0
57	MG	2A	3073	1/1	0.93	0.08	50,50,50,50	0
57	MG	2A	3638	1/1	0.93	0.13	44,44,44,44	0
57	MG	1A	4086	1/1	0.93	0.06	42,42,42,42	0
57	MG	2A	3342	1/1	0.93	0.14	46,46,46,46	0
57	MG	2A	3641	1/1	0.93	0.11	42,42,42,42	0
57	MG	1a	1670	1/1	0.93	0.29	59,59,59,59	0
57	MG	1A	3676	1/1	0.93	0.05	23,23,23,23	0
57	MG	1A	3395	1/1	0.93	0.09	55,55,55,55	0
57	MG	2A	3646	1/1	0.93	0.09	56,56,56,56	0
57	MG	2A	3347	1/1	0.93	0.09	49,49,49,49	0
57	MG	2A	3088	1/1	0.93	0.25	55,55,55,55	0
57	MG	2A	3660	1/1	0.93	0.10	48,48,48,48	0
57	MG	1A	3403	1/1	0.93	0.07	35,35,35,35	0
57	MG	1A	3404	1/1	0.93	0.07	34,34,34,34	0
57	MG	1a	1683	1/1	0.93	0.15	51,51,51,51	0
57	MG	2A	3097	1/1	0.93	0.11	47,47,47,47	0
57	MG	1A	4095	1/1	0.93	0.14	53,53,53,53	0
57	MG	2a	1649	1/1	0.93	0.21	63,63,63,63	0
57	MG	2a	1651	1/1	0.93	0.08	47,47,47,47	0
57	MG	2A	3102	1/1	0.93	0.10	48,48,48,48	0
57	MG	1A	4097	1/1	0.93	0.08	36,36,36,36	0
57	MG	2a	1659	1/1	0.93	0.08	72,72,72,72	0
57	MG	1A	3405	1/1	0.93	0.15	45,45,45,45	0
57	MG	1A	4102	1/1	0.93	0.06	59,59,59,59	0
57	MG	2A	3108	1/1	0.93	0.23	49,49,49,49	0
57	MG	1A	3273	1/1	0.93	0.11	52,52,52,52	0
57	MG	1A	3016	1/1	0.93	0.23	53,53,53,53	0
57	MG	2a	1669	1/1	0.93	0.11	60,60,60,60	0
57	MG	1a	1693	1/1	0.93	0.07	60,60,60,60	0
57	MG	2A	3116	1/1	0.93	0.28	58,58,58,58	0
57	MG	1a	1695	1/1	0.93	0.21	52,52,52,52	0
57	MG	1A	3591	1/1	0.93	0.08	32,32,32,32	0
57	MG	1A	3161	1/1	0.93	0.09	49,49,49,49	0
57	MG	1A	3967	1/1	0.93	0.13	72,72,72,72	0
57	MG	1A	3206	1/1	0.93	0.07	59,59,59,59	0
57	MG	2A	3127	1/1	0.93	0.08	61,61,61,61	0
57	MG	2a	1690	1/1	0.93	0.17	59,59,59,59	0
57	MG	2a	1691	1/1	0.93	0.10	55,55,55,55	0
57	MG	2A	3695	1/1	0.93	0.10	75,75,75,75	0
57	MG	2a	1694	1/1	0.93	0.17	53,53,53,53	0
57	MG	2a	1695	1/1	0.93	0.25	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2a	1696	1/1	0.93	0.13	67,67,67,67	0
57	MG	2A	3696	1/1	0.93	0.08	60,60,60,60	0
57	MG	1A	3970	1/1	0.93	0.08	49,49,49,49	0
57	MG	1a	1706	1/1	0.93	0.25	52,52,52,52	0
57	MG	2A	3136	1/1	0.93	0.09	42,42,42,42	0
57	MG	2a	1708	1/1	0.93	0.15	63,63,63,63	0
57	MG	2A	3387	1/1	0.93	0.17	60,60,60,60	0
57	MG	1A	3813	1/1	0.93	0.06	49,49,49,49	0
57	MG	2A	3389	1/1	0.93	0.13	51,51,51,51	0
57	MG	2a	1713	1/1	0.93	0.10	63,63,63,63	0
57	MG	1A	3972	1/1	0.93	0.08	58,58,58,58	0
57	MG	1a	1712	1/1	0.93	0.09	49,49,49,49	0
57	MG	2a	1717	1/1	0.93	0.14	50,50,50,50	0
57	MG	1A	3815	1/1	0.93	0.21	29,29,29,29	0
57	MG	2a	1720	1/1	0.93	0.25	66,66,66,66	0
57	MG	2A	3395	1/1	0.93	0.15	58,58,58,58	0
57	MG	2A	3396	1/1	0.93	0.27	60,60,60,60	0
57	MG	1A	3699	1/1	0.93	0.09	25,25,25,25	0
57	MG	1A	3981	1/1	0.93	0.06	42,42,42,42	0
57	MG	1A	3819	1/1	0.93	0.09	39,39,39,39	0
57	MG	1A	3413	1/1	0.93	0.08	50,50,50,50	0
57	MG	2A	3405	1/1	0.93	0.15	53,53,53,53	0
57	MG	1A	3350	1/1	0.93	0.09	44,44,44,44	0
57	MG	1A	3506	1/1	0.93	0.10	46,46,46,46	0
57	MG	2a	1731	1/1	0.93	0.13	62,62,62,62	0
57	MG	1A	3088	1/1	0.93	0.23	54,54,54,54	0
57	MG	2A	3412	1/1	0.93	0.13	47,47,47,47	0
57	MG	1A	3514	1/1	0.93	0.14	25,25,25,25	0
57	MG	1a	1733	1/1	0.93	0.14	58,58,58,58	0
57	MG	2A	3744	1/1	0.93	0.07	61,61,61,61	0
57	MG	2A	3418	1/1	0.93	0.07	52,52,52,52	0
57	MG	1A	3833	1/1	0.93	0.09	34,34,34,34	0
57	MG	1A	3998	1/1	0.93	0.13	55,55,55,55	0
57	MG	1B	233	1/1	0.93	0.10	37,37,37,37	0
57	MG	2A	3751	1/1	0.93	0.16	67,67,67,67	0
57	MG	2A	3423	1/1	0.93	0.17	57,57,57,57	0
57	MG	1A	3610	1/1	0.93	0.14	42,42,42,42	0
57	MG	2a	1764	1/1	0.93	0.07	75,75,75,75	0
57	MG	1D	311	1/1	0.93	0.10	46,46,46,46	0
57	MG	2A	3756	1/1	0.93	0.11	48,48,48,48	0
57	MG	2A	3427	1/1	0.93	0.22	43,43,43,43	0
57	MG	1D	312	1/1	0.93	0.14	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2a	1777	1/1	0.93	0.07	49,49,49,49	0
57	MG	2A	3194	1/1	0.93	0.23	57,57,57,57	0
57	MG	1A	3717	1/1	0.93	0.09	35,35,35,35	0
57	MG	1a	1752	1/1	0.93	0.10	58,58,58,58	0
57	MG	2a	1785	1/1	0.93	0.08	55,55,55,55	0
57	MG	2A	3765	1/1	0.93	0.09	49,49,49,49	0
57	MG	1a	1754	1/1	0.93	0.24	63,63,63,63	0
57	MG	1a	1758	1/1	0.93	0.06	39,39,39,39	0
57	MG	2A	3206	1/1	0.93	0.08	49,49,49,49	0
57	MG	1A	4002	1/1	0.93	0.10	47,47,47,47	0
57	MG	1F	309	1/1	0.93	0.10	27,27,27,27	0
57	MG	1A	3518	1/1	0.93	0.08	49,49,49,49	0
57	MG	2A	3444	1/1	0.93	0.12	54,54,54,54	0
57	MG	2A	3445	1/1	0.93	0.14	49,49,49,49	0
57	MG	1A	3842	1/1	0.93	0.12	40,40,40,40	0
57	MG	1O	204	1/1	0.93	0.08	47,47,47,47	0
57	MG	1A	3328	1/1	0.93	0.08	43,43,43,43	0
57	MG	2A	3219	1/1	0.93	0.12	59,59,59,59	0
57	MG	1a	1771	1/1	0.93	0.09	70,70,70,70	0
57	MG	2A	3454	1/1	0.93	0.12	48,48,48,48	0
57	MG	2A	3806	1/1	0.93	0.10	65,65,65,65	0
57	MG	1a	1773	1/1	0.93	0.07	70,70,70,70	0
57	MG	2a	1812	1/1	0.93	0.18	66,66,66,66	0
57	MG	1A	3845	1/1	0.93	0.18	60,60,60,60	0
57	MG	2a	1815	1/1	0.93	0.16	58,58,58,58	0
57	MG	2A	3457	1/1	0.93	0.12	56,56,56,56	0
57	MG	2A	3458	1/1	0.93	0.14	49,49,49,49	0
57	MG	2a	1819	1/1	0.93	0.18	58,58,58,58	0
57	MG	2a	1821	1/1	0.93	0.23	58,58,58,58	0
57	MG	1A	3101	1/1	0.93	0.11	52,52,52,52	0
57	MG	1A	3847	1/1	0.93	0.11	45,45,45,45	0
57	MG	2A	3465	1/1	0.93	0.16	49,49,49,49	0
57	MG	1A	3726	1/1	0.93	0.08	36,36,36,36	0
57	MG	2a	1828	1/1	0.93	0.08	60,60,60,60	0
57	MG	1A	3728	1/1	0.93	0.10	44,44,44,44	0
57	MG	2A	3231	1/1	0.93	0.15	62,62,62,62	0
57	MG	1a	1783	1/1	0.93	0.09	64,64,64,64	0
57	MG	2a	1832	1/1	0.93	0.26	68,68,68,68	0
57	MG	2A	3829	1/1	0.93	0.11	61,61,61,61	0
57	MG	2A	3484	1/1	0.93	0.07	47,47,47,47	0
57	MG	2A	3491	1/1	0.93	0.14	59,59,59,59	0
57	MG	2A	3833	1/1	0.93	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
57	MG	1A	3370	1/1	0.93	0.36	67,67,67,67	0
57	MG	2A	3238	1/1	0.93	0.26	55,55,55,55	0
57	MG	2A	3838	1/1	0.93	0.11	38,38,38,38	0
57	MG	1A	3856	1/1	0.93	0.09	53,53,53,53	0
57	MG	2A	3847	1/1	0.93	0.06	61,61,61,61	0
57	MG	1A	3631	1/1	0.93	0.07	30,30,30,30	0
57	MG	2A	3854	1/1	0.93	0.09	49,49,49,49	0
57	MG	2l	202	1/1	0.93	0.22	60,60,60,60	0
57	MG	2A	3244	1/1	0.93	0.11	51,51,51,51	0
57	MG	1A	3374	1/1	0.93	0.09	39,39,39,39	0
57	MG	1A	3873	1/1	0.93	0.14	53,53,53,53	0
57	MG	1a	1793	1/1	0.93	0.08	53,53,53,53	0
57	MG	2A	3255	1/1	0.93	0.25	60,60,60,60	0
57	MG	1A	3736	1/1	0.93	0.17	55,55,55,55	0
57	MG	2A	3512	1/1	0.93	0.10	37,37,37,37	0
57	MG	1Y	202	1/1	0.93	0.07	64,64,64,64	0
57	MG	1A	3877	1/1	0.93	0.12	33,33,33,33	0
57	MG	1A	3376	1/1	0.93	0.07	39,39,39,39	0
57	MG	1A	3636	1/1	0.93	0.08	52,52,52,52	0
57	MG	1A	3745	1/1	0.93	0.13	39,39,39,39	0
57	MG	2A	3528	1/1	0.93	0.10	59,59,59,59	0
57	MG	1A	3889	1/1	0.93	0.06	29,29,29,29	0
57	MG	12	102	1/1	0.93	0.09	46,46,46,46	0
57	MG	2B	201	1/1	0.93	0.31	66,66,66,66	0
57	MG	13	101	1/1	0.93	0.06	35,35,35,35	0
57	MG	1A	3437	1/1	0.93	0.09	60,60,60,60	0
57	MG	2A	3279	1/1	0.93	0.08	58,58,58,58	0
57	MG	14	101	1/1	0.93	0.18	54,54,54,54	0
57	MG	2A	3283	1/1	0.93	0.27	52,52,52,52	0
57	MG	2B	209	1/1	0.93	0.17	61,61,61,61	0
57	MG	1a	1667	1/1	0.94	0.27	65,65,65,65	0
57	MG	1a	1668	1/1	0.94	0.12	51,51,51,51	0
57	MG	1A	3853	1/1	0.94	0.12	47,47,47,47	0
57	MG	1A	3162	1/1	0.94	0.13	36,36,36,36	0
57	MG	1A	3050	1/1	0.94	0.08	46,46,46,46	0
57	MG	1A	3993	1/1	0.94	0.07	67,67,67,67	0
57	MG	1B	216	1/1	0.94	0.07	47,47,47,47	0
57	MG	2B	213	1/1	0.94	0.26	49,49,49,49	0
57	MG	2A	3033	1/1	0.94	0.08	47,47,47,47	0
57	MG	2B	215	1/1	0.94	0.10	51,51,51,51	0
57	MG	2A	3550	1/1	0.94	0.11	36,36,36,36	0
57	MG	1a	1677	1/1	0.94	0.16	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3040	1/1	0.94	0.08	48,48,48,48	0
57	MG	1A	3492	1/1	0.94	0.12	34,34,34,34	0
57	MG	1A	3301	1/1	0.94	0.14	39,39,39,39	0
57	MG	1A	3497	1/1	0.94	0.07	41,41,41,41	0
57	MG	2A	3051	1/1	0.94	0.08	54,54,54,54	0
57	MG	1B	222	1/1	0.94	0.09	56,56,56,56	0
57	MG	2A	3563	1/1	0.94	0.06	39,39,39,39	0
57	MG	2A	3053	1/1	0.94	0.12	55,55,55,55	0
57	MG	1a	1687	1/1	0.94	0.15	54,54,54,54	0
57	MG	1A	3866	1/1	0.94	0.09	49,49,49,49	0
57	MG	1a	1689	1/1	0.94	0.10	55,55,55,55	0
57	MG	1A	3868	1/1	0.94	0.07	42,42,42,42	0
57	MG	1A	3870	1/1	0.94	0.10	45,45,45,45	0
57	MG	2O	201	1/1	0.94	0.18	69,69,69,69	0
57	MG	2P	201	1/1	0.94	0.11	56,56,56,56	0
57	MG	2A	3060	1/1	0.94	0.17	50,50,50,50	0
57	MG	2A	3572	1/1	0.94	0.09	42,42,42,42	0
57	MG	1A	3872	1/1	0.94	0.07	35,35,35,35	0
57	MG	1B	230	1/1	0.94	0.13	49,49,49,49	0
57	MG	2A	3065	1/1	0.94	0.10	53,53,53,53	0
57	MG	1A	3103	1/1	0.94	0.08	20,20,20,20	0
57	MG	1A	3583	1/1	0.94	0.09	51,51,51,51	0
57	MG	1A	3766	1/1	0.94	0.07	42,42,42,42	0
57	MG	2A	3588	1/1	0.94	0.11	43,43,43,43	0
57	MG	1A	3879	1/1	0.94	0.05	36,36,36,36	0
57	MG	1A	3675	1/1	0.94	0.08	31,31,31,31	0
57	MG	1A	3501	1/1	0.94	0.10	52,52,52,52	0
57	MG	2A	3326	1/1	0.94	0.13	55,55,55,55	0
57	MG	2A	3084	1/1	0.94	0.11	52,52,52,52	0
57	MG	1A	3886	1/1	0.94	0.21	34,34,34,34	0
57	MG	1a	1707	1/1	0.94	0.21	53,53,53,53	0
57	MG	1a	1708	1/1	0.94	0.25	61,61,61,61	0
57	MG	2A	3604	1/1	0.94	0.20	59,59,59,59	0
57	MG	1A	3887	1/1	0.94	0.17	37,37,37,37	0
57	MG	1E	312	1/1	0.94	0.07	45,45,45,45	0
57	MG	2A	3095	1/1	0.94	0.06	39,39,39,39	0
57	MG	2A	3096	1/1	0.94	0.10	53,53,53,53	0
57	MG	1A	3383	1/1	0.94	0.09	42,42,42,42	0
57	MG	1F	311	1/1	0.94	0.16	54,54,54,54	0
57	MG	1A	3680	1/1	0.94	0.07	25,25,25,25	0
57	MG	1a	1715	1/1	0.94	0.25	51,51,51,51	0
57	MG	1a	1716	1/1	0.94	0.11	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3890	1/1	0.94	0.06	44,44,44,44	0
57	MG	1O	202	1/1	0.94	0.17	47,47,47,47	0
57	MG	2a	1613	1/1	0.94	0.11	53,53,53,53	0
57	MG	1O	203	1/1	0.94	0.07	52,52,52,52	0
57	MG	2A	3624	1/1	0.94	0.20	57,57,57,57	0
57	MG	2A	3625	1/1	0.94	0.08	38,38,38,38	0
57	MG	1a	1721	1/1	0.94	0.17	49,49,49,49	0
57	MG	1A	3592	1/1	0.94	0.07	40,40,40,40	0
57	MG	2A	3630	1/1	0.94	0.08	58,58,58,58	0
57	MG	2A	3350	1/1	0.94	0.10	65,65,65,65	0
57	MG	2A	3351	1/1	0.94	0.11	42,42,42,42	0
57	MG	1a	1723	1/1	0.94	0.10	45,45,45,45	0
57	MG	1A	3384	1/1	0.94	0.09	54,54,54,54	0
57	MG	2A	3354	1/1	0.94	0.17	55,55,55,55	0
57	MG	1A	3777	1/1	0.94	0.14	30,30,30,30	0
57	MG	1A	3687	1/1	0.94	0.16	50,50,50,50	0
57	MG	1A	3389	1/1	0.94	0.08	52,52,52,52	0
57	MG	2A	3358	1/1	0.94	0.14	57,57,57,57	0
57	MG	1A	3902	1/1	0.94	0.06	33,33,33,33	0
57	MG	2a	1634	1/1	0.94	0.09	57,57,57,57	0
57	MG	2a	1635	1/1	0.94	0.10	69,69,69,69	0
57	MG	2A	3360	1/1	0.94	0.17	61,61,61,61	0
57	MG	2a	1639	1/1	0.94	0.22	53,53,53,53	0
57	MG	2A	3650	1/1	0.94	0.11	54,54,54,54	0
57	MG	2A	3651	1/1	0.94	0.27	56,56,56,56	0
57	MG	2A	3653	1/1	0.94	0.07	55,55,55,55	0
57	MG	2A	3363	1/1	0.94	0.12	59,59,59,59	0
57	MG	2A	3655	1/1	0.94	0.19	52,52,52,52	0
57	MG	1S	201	1/1	0.94	0.16	38,38,38,38	0
57	MG	1a	1738	1/1	0.94	0.10	41,41,41,41	0
57	MG	2A	3131	1/1	0.94	0.08	47,47,47,47	0
57	MG	2A	3132	1/1	0.94	0.23	67,67,67,67	0
57	MG	1A	4031	1/1	0.94	0.07	24,24,24,24	0
57	MG	2a	1657	1/1	0.94	0.07	41,41,41,41	0
57	MG	2a	1658	1/1	0.94	0.15	57,57,57,57	0
57	MG	2A	3134	1/1	0.94	0.10	42,42,42,42	0
57	MG	1A	3785	1/1	0.94	0.08	42,42,42,42	0
57	MG	1A	3689	1/1	0.94	0.06	27,27,27,27	0
57	MG	2a	1662	1/1	0.94	0.08	50,50,50,50	0
57	MG	1a	1746	1/1	0.94	0.07	43,43,43,43	0
57	MG	1T	204	1/1	0.94	0.10	50,50,50,50	0
57	MG	2a	1666	1/1	0.94	0.18	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3143	1/1	0.94	0.21	45,45,45,45	0
57	MG	1A	3308	1/1	0.94	0.15	51,51,51,51	0
57	MG	2A	3679	1/1	0.94	0.10	63,63,63,63	0
57	MG	1A	3602	1/1	0.94	0.08	36,36,36,36	0
57	MG	2a	1674	1/1	0.94	0.25	59,59,59,59	0
57	MG	2A	3148	1/1	0.94	0.15	43,43,43,43	0
57	MG	2A	3383	1/1	0.94	0.12	65,65,65,65	0
57	MG	1A	3911	1/1	0.94	0.09	46,46,46,46	0
57	MG	1A	4045	1/1	0.94	0.12	75,75,75,75	0
57	MG	1a	1760	1/1	0.94	0.09	60,60,60,60	0
57	MG	2a	1686	1/1	0.94	0.09	56,56,56,56	0
57	MG	2A	3160	1/1	0.94	0.07	48,48,48,48	0
57	MG	2a	1688	1/1	0.94	0.14	54,54,54,54	0
57	MG	2a	1689	1/1	0.94	0.20	65,65,65,65	0
57	MG	1A	3603	1/1	0.94	0.18	37,37,37,37	0
57	MG	2A	3391	1/1	0.94	0.22	58,58,58,58	0
57	MG	2A	3694	1/1	0.94	0.09	38,38,38,38	0
57	MG	2a	1693	1/1	0.94	0.16	57,57,57,57	0
57	MG	2A	3165	1/1	0.94	0.10	40,40,40,40	0
57	MG	2A	3166	1/1	0.94	0.35	64,64,64,64	0
57	MG	2A	3698	1/1	0.94	0.12	45,45,45,45	0
57	MG	2A	3167	1/1	0.94	0.09	49,49,49,49	0
57	MG	1A	3511	1/1	0.94	0.20	55,55,55,55	0
57	MG	2a	1703	1/1	0.94	0.18	55,55,55,55	0
57	MG	2a	1704	1/1	0.94	0.10	56,56,56,56	0
57	MG	2a	1705	1/1	0.94	0.11	61,61,61,61	0
57	MG	1A	4049	1/1	0.94	0.11	67,67,67,67	0
57	MG	10	101	1/1	0.94	0.12	39,39,39,39	0
57	MG	2A	3704	1/1	0.94	0.06	54,54,54,54	0
57	MG	2A	3398	1/1	0.94	0.11	57,57,57,57	0
57	MG	10	102	1/1	0.94	0.15	46,46,46,46	0
57	MG	2A	3177	1/1	0.94	0.18	48,48,48,48	0
57	MG	2A	3714	1/1	0.94	0.07	35,35,35,35	0
57	MG	1A	3309	1/1	0.94	0.22	54,54,54,54	0
57	MG	11	104	1/1	0.94	0.12	40,40,40,40	0
57	MG	2a	1716	1/1	0.94	0.09	57,57,57,57	0
57	MG	2A	3183	1/1	0.94	0.15	47,47,47,47	0
57	MG	1a	1772	1/1	0.94	0.08	58,58,58,58	0
57	MG	1A	3516	1/1	0.94	0.10	56,56,56,56	0
57	MG	2A	3410	1/1	0.94	0.23	65,65,65,65	0
57	MG	2A	3725	1/1	0.94	0.09	59,59,59,59	0
57	MG	2A	3190	1/1	0.94	0.10	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3448	1/1	0.94	0.12	52,52,52,52	0
57	MG	2A	3414	1/1	0.94	0.07	64,64,64,64	0
57	MG	2A	3416	1/1	0.94	0.06	42,42,42,42	0
57	MG	1A	3701	1/1	0.94	0.07	52,52,52,52	0
57	MG	2A	3737	1/1	0.94	0.09	54,54,54,54	0
57	MG	1A	3179	1/1	0.94	0.14	47,47,47,47	0
57	MG	1A	3396	1/1	0.94	0.15	40,40,40,40	0
57	MG	2A	3197	1/1	0.94	0.26	50,50,50,50	0
57	MG	2A	3741	1/1	0.94	0.12	49,49,49,49	0
57	MG	1A	3454	1/1	0.94	0.10	45,45,45,45	0
57	MG	1A	3402	1/1	0.94	0.09	42,42,42,42	0
57	MG	2a	1741	1/1	0.94	0.10	72,72,72,72	0
57	MG	17	103	1/1	0.94	0.12	51,51,51,51	0
57	MG	2A	3205	1/1	0.94	0.07	44,44,44,44	0
57	MG	18	103	1/1	0.94	0.18	50,50,50,50	0
57	MG	2A	3428	1/1	0.94	0.14	34,34,34,34	0
57	MG	1A	3456	1/1	0.94	0.08	42,42,42,42	0
57	MG	2a	1752	1/1	0.94	0.08	66,66,66,66	0
57	MG	1A	3629	1/1	0.94	0.08	29,29,29,29	0
57	MG	1A	3942	1/1	0.94	0.08	48,48,48,48	0
57	MG	1a	1602	1/1	0.94	0.10	49,49,49,49	0
57	MG	1A	3943	1/1	0.94	0.07	36,36,36,36	0
57	MG	1A	3181	1/1	0.94	0.09	59,59,59,59	0
57	MG	2A	3438	1/1	0.94	0.08	42,42,42,42	0
57	MG	1a	1802	1/1	0.94	0.07	54,54,54,54	0
57	MG	1A	4078	1/1	0.94	0.08	44,44,44,44	0
57	MG	1A	3108	1/1	0.94	0.15	31,31,31,31	0
57	MG	2A	3223	1/1	0.94	0.12	50,50,50,50	0
57	MG	1a	1617	1/1	0.94	0.08	53,53,53,53	0
57	MG	2a	1782	1/1	0.94	0.10	49,49,49,49	0
57	MG	2a	1783	1/1	0.94	0.13	65,65,65,65	0
57	MG	1a	1812	1/1	0.94	0.08	60,60,60,60	0
57	MG	2A	3769	1/1	0.94	0.10	58,58,58,58	0
57	MG	1A	3140	1/1	0.94	0.19	56,56,56,56	0
57	MG	2A	3772	1/1	0.94	0.12	41,41,41,41	0
57	MG	1a	1621	1/1	0.94	0.17	53,53,53,53	0
57	MG	1A	3538	1/1	0.94	0.14	40,40,40,40	0
57	MG	2A	3780	1/1	0.94	0.11	46,46,46,46	0
57	MG	2A	3450	1/1	0.94	0.29	49,49,49,49	0
57	MG	1b	301	1/1	0.94	0.07	68,68,68,68	0
57	MG	2A	3234	1/1	0.94	0.11	43,43,43,43	0
57	MG	1A	3285	1/1	0.94	0.29	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3794	1/1	0.94	0.10	62,62,62,62	0
57	MG	2a	1800	1/1	0.94	0.11	47,47,47,47	0
57	MG	2A	3795	1/1	0.94	0.13	68,68,68,68	0
57	MG	1A	3729	1/1	0.94	0.08	33,33,33,33	0
57	MG	1A	3357	1/1	0.94	0.10	54,54,54,54	0
57	MG	2a	1805	1/1	0.94	0.11	57,57,57,57	0
57	MG	2A	3239	1/1	0.94	0.24	40,40,40,40	0
57	MG	2A	3800	1/1	0.94	0.08	47,47,47,47	0
57	MG	2A	3240	1/1	0.94	0.10	47,47,47,47	0
57	MG	2A	3804	1/1	0.94	0.12	67,67,67,67	0
57	MG	2A	3459	1/1	0.94	0.11	40,40,40,40	0
57	MG	2A	3241	1/1	0.94	0.11	45,45,45,45	0
57	MG	2A	3463	1/1	0.94	0.17	42,42,42,42	0
57	MG	2a	1816	1/1	0.94	0.20	62,62,62,62	0
57	MG	1n	101	1/1	0.94	0.10	50,50,50,50	0
57	MG	2A	3810	1/1	0.94	0.06	71,71,71,71	0
57	MG	1a	1627	1/1	0.94	0.07	41,41,41,41	0
57	MG	1A	3960	1/1	0.94	0.09	49,49,49,49	0
57	MG	2A	3467	1/1	0.94	0.23	49,49,49,49	0
57	MG	2A	3468	1/1	0.94	0.10	54,54,54,54	0
57	MG	1A	3834	1/1	0.94	0.07	36,36,36,36	0
57	MG	2A	3247	1/1	0.94	0.12	48,48,48,48	0
57	MG	2a	1827	1/1	0.94	0.09	57,57,57,57	0
57	MG	2A	3476	1/1	0.94	0.07	53,53,53,53	0
57	MG	1A	3237	1/1	0.94	0.09	37,37,37,37	0
57	MG	2A	3823	1/1	0.94	0.07	69,69,69,69	0
57	MG	2A	3481	1/1	0.94	0.08	50,50,50,50	0
57	MG	2A	3826	1/1	0.94	0.08	43,43,43,43	0
57	MG	2A	3827	1/1	0.94	0.08	58,58,58,58	0
57	MG	2A	3482	1/1	0.94	0.09	50,50,50,50	0
57	MG	1A	3360	1/1	0.94	0.10	50,50,50,50	0
57	MG	2A	3485	1/1	0.94	0.10	59,59,59,59	0
57	MG	2A	3489	1/1	0.94	0.08	57,57,57,57	0
57	MG	1A	3838	1/1	0.94	0.12	52,52,52,52	0
57	MG	2A	3493	1/1	0.94	0.12	53,53,53,53	0
57	MG	2A	3836	1/1	0.94	0.10	53,53,53,53	0
57	MG	1A	3648	1/1	0.94	0.06	19,19,19,19	0
57	MG	1A	3738	1/1	0.94	0.07	51,51,51,51	0
57	MG	2A	3844	1/1	0.94	0.09	41,41,41,41	0
57	MG	2A	3499	1/1	0.94	0.10	55,55,55,55	0
57	MG	2A	3852	1/1	0.94	0.08	55,55,55,55	0
57	MG	2A	3501	1/1	0.94	0.08	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3002	1/1	0.94	0.08	42,42,42,42	0
57	MG	2A	3856	1/1	0.94	0.07	58,58,58,58	0
57	MG	1A	3471	1/1	0.94	0.19	48,48,48,48	0
57	MG	1a	1641	1/1	0.94	0.26	59,59,59,59	0
57	MG	2v	102	1/1	0.94	0.26	64,64,64,64	0
57	MG	2A	3261	1/1	0.94	0.14	60,60,60,60	0
57	MG	1A	3976	1/1	0.94	0.06	32,32,32,32	0
57	MG	1A	3024	1/1	0.94	0.19	50,50,50,50	0
57	MG	2A	3870	1/1	0.94	0.12	34,34,34,34	0
57	MG	2A	3269	1/1	0.94	0.09	47,47,47,47	0
57	MG	2A	3271	1/1	0.94	0.19	58,58,58,58	0
57	MG	1A	3474	1/1	0.94	0.12	54,54,54,54	0
57	MG	1A	3848	1/1	0.94	0.06	37,37,37,37	0
57	MG	2A	3277	1/1	0.94	0.07	50,50,50,50	0
57	MG	1A	4116	1/1	0.94	0.14	42,42,42,42	0
57	MG	2A	3520	1/1	0.94	0.08	42,42,42,42	0
57	MG	2y	101	1/1	0.94	0.08	60,60,60,60	0
57	MG	1A	3984	1/1	0.94	0.07	38,38,38,38	0
57	MG	1A	3660	1/1	0.94	0.07	34,34,34,34	0
57	MG	2A	3002	1/1	0.94	0.27	53,53,53,53	0
57	MG	1a	1662	1/1	0.94	0.08	45,45,45,45	0
57	MG	1a	1663	1/1	0.94	0.21	62,62,62,62	0
57	MG	1A	3298	1/1	0.95	0.30	56,56,56,56	0
57	MG	1G	205	1/1	0.95	0.08	45,45,45,45	0
57	MG	1I	201	1/1	0.95	0.08	50,50,50,50	0
57	MG	2A	3877	1/1	0.95	0.10	41,41,41,41	0
57	MG	2A	3515	1/1	0.95	0.13	57,57,57,57	0
57	MG	2A	3879	1/1	0.95	0.13	43,43,43,43	0
57	MG	1N	201	1/1	0.95	0.18	43,43,43,43	0
57	MG	1O	201	1/1	0.95	0.06	59,59,59,59	0
57	MG	1A	3619	1/1	0.95	0.09	46,46,46,46	0
57	MG	1a	1784	1/1	0.95	0.11	65,65,65,65	0
57	MG	2A	3521	1/1	0.95	0.07	53,53,53,53	0
57	MG	2A	3524	1/1	0.95	0.07	31,31,31,31	0
57	MG	1A	3969	1/1	0.95	0.11	46,46,46,46	0
57	MG	2A	3526	1/1	0.95	0.07	37,37,37,37	0
57	MG	2A	3245	1/1	0.95	0.15	43,43,43,43	0
57	MG	2B	205	1/1	0.95	0.16	53,53,53,53	0
57	MG	1a	1786	1/1	0.95	0.07	44,44,44,44	0
57	MG	1A	3621	1/1	0.95	0.17	49,49,49,49	0
57	MG	1P	204	1/1	0.95	0.06	37,37,37,37	0
57	MG	1A	3786	1/1	0.95	0.06	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3299	1/1	0.95	0.20	34,34,34,34	0
57	MG	2A	3536	1/1	0.95	0.12	46,46,46,46	0
57	MG	2A	3538	1/1	0.95	0.11	40,40,40,40	0
57	MG	1A	3973	1/1	0.95	0.05	36,36,36,36	0
57	MG	1A	3379	1/1	0.95	0.18	25,25,25,25	0
57	MG	1A	3381	1/1	0.95	0.07	46,46,46,46	0
57	MG	1A	3475	1/1	0.95	0.07	41,41,41,41	0
57	MG	1A	3478	1/1	0.95	0.08	40,40,40,40	0
57	MG	1A	3481	1/1	0.95	0.07	56,56,56,56	0
57	MG	1A	3637	1/1	0.95	0.06	33,33,33,33	0
57	MG	1A	3799	1/1	0.95	0.12	49,49,49,49	0
57	MG	2A	3266	1/1	0.95	0.06	43,43,43,43	0
57	MG	2E	303	1/1	0.95	0.12	44,44,44,44	0
57	MG	1U	202	1/1	0.95	0.13	41,41,41,41	0
57	MG	2A	3270	1/1	0.95	0.13	48,48,48,48	0
57	MG	2A	3555	1/1	0.95	0.08	50,50,50,50	0
57	MG	2A	3556	1/1	0.95	0.08	31,31,31,31	0
57	MG	1A	3802	1/1	0.95	0.07	24,24,24,24	0
57	MG	2A	3274	1/1	0.95	0.08	57,57,57,57	0
57	MG	2A	3559	1/1	0.95	0.08	47,47,47,47	0
57	MG	1U	208	1/1	0.95	0.16	34,34,34,34	0
57	MG	1V	206	1/1	0.95	0.06	37,37,37,37	0
57	MG	1A	3221	1/1	0.95	0.17	40,40,40,40	0
57	MG	1A	3303	1/1	0.95	0.05	26,26,26,26	0
57	MG	1f	201	1/1	0.95	0.14	39,39,39,39	0
57	MG	1A	3490	1/1	0.95	0.10	43,43,43,43	0
57	MG	2A	3282	1/1	0.95	0.10	47,47,47,47	0
57	MG	2T	203	1/1	0.95	0.06	42,42,42,42	0
57	MG	1A	3150	1/1	0.95	0.08	38,38,38,38	0
57	MG	2A	3570	1/1	0.95	0.07	58,58,58,58	0
57	MG	1t	201	1/1	0.95	0.13	51,51,51,51	0
57	MG	1A	3224	1/1	0.95	0.06	34,34,34,34	0
57	MG	2A	3574	1/1	0.95	0.11	39,39,39,39	0
57	MG	2X	101	1/1	0.95	0.10	65,65,65,65	0
57	MG	1A	3494	1/1	0.95	0.11	48,48,48,48	0
57	MG	1w	102	1/1	0.95	0.14	67,67,67,67	0
57	MG	20	101	1/1	0.95	0.10	48,48,48,48	0
57	MG	1w	103	1/1	0.95	0.15	52,52,52,52	0
57	MG	1A	3054	1/1	0.95	0.06	39,39,39,39	0
57	MG	23	103	1/1	0.95	0.10	52,52,52,52	0
57	MG	2A	3581	1/1	0.95	0.10	53,53,53,53	0
57	MG	1A	3055	1/1	0.95	0.07	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1w	108	1/1	0.95	0.11	73,73,73,73	0
57	MG	2A	3586	1/1	0.95	0.15	50,50,50,50	0
57	MG	28	101	1/1	0.95	0.09	45,45,45,45	0
57	MG	28	102	1/1	0.95	0.13	49,49,49,49	0
57	MG	28	103	1/1	0.95	0.07	68,68,68,68	0
57	MG	10	103	1/1	0.95	0.12	46,46,46,46	0
57	MG	10	104	1/1	0.95	0.08	49,49,49,49	0
57	MG	1A	3095	1/1	0.95	0.10	42,42,42,42	0
57	MG	1A	3239	1/1	0.95	0.15	36,36,36,36	0
57	MG	1x	105	1/1	0.95	0.10	51,51,51,51	0
57	MG	2A	3300	1/1	0.95	0.13	59,59,59,59	0
57	MG	1x	107	1/1	0.95	0.08	44,44,44,44	0
57	MG	1A	3400	1/1	0.95	0.15	40,40,40,40	0
57	MG	1A	3314	1/1	0.95	0.12	46,46,46,46	0
57	MG	2a	1610	1/1	0.95	0.17	59,59,59,59	0
57	MG	12	101	1/1	0.95	0.10	45,45,45,45	0
57	MG	1A	3823	1/1	0.95	0.06	19,19,19,19	0
57	MG	1A	3169	1/1	0.95	0.06	45,45,45,45	0
57	MG	2a	1614	1/1	0.95	0.18	53,53,53,53	0
57	MG	2A	3608	1/1	0.95	0.10	50,50,50,50	0
57	MG	1A	4009	1/1	0.95	0.06	73,73,73,73	0
57	MG	1x	114	1/1	0.95	0.09	53,53,53,53	0
57	MG	13	105	1/1	0.95	0.10	41,41,41,41	0
57	MG	1A	3827	1/1	0.95	0.10	37,37,37,37	0
57	MG	1A	3830	1/1	0.95	0.06	22,22,22,22	0
57	MG	2A	3615	1/1	0.95	0.09	40,40,40,40	0
57	MG	1A	3317	1/1	0.95	0.26	57,57,57,57	0
57	MG	2a	1623	1/1	0.95	0.25	66,66,66,66	0
57	MG	1A	3035	1/1	0.95	0.06	42,42,42,42	0
57	MG	2a	1625	1/1	0.95	0.14	57,57,57,57	0
57	MG	1A	3406	1/1	0.95	0.09	35,35,35,35	0
57	MG	1A	3323	1/1	0.95	0.16	49,49,49,49	0
57	MG	2A	3622	1/1	0.95	0.10	34,34,34,34	0
57	MG	1A	3246	1/1	0.95	0.11	32,32,32,32	0
57	MG	2A	3007	1/1	0.95	0.15	46,46,46,46	0
57	MG	1A	4019	1/1	0.95	0.05	44,44,44,44	0
57	MG	1A	4020	1/1	0.95	0.06	33,33,33,33	0
57	MG	2A	3627	1/1	0.95	0.15	38,38,38,38	0
57	MG	1A	3040	1/1	0.95	0.17	55,55,55,55	0
57	MG	1a	1605	1/1	0.95	0.21	56,56,56,56	0
57	MG	1A	4022	1/1	0.95	0.06	14,14,14,14	0
57	MG	2a	1640	1/1	0.95	0.11	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3636	1/1	0.95	0.15	41,41,41,41	0
57	MG	1A	3044	1/1	0.95	0.08	33,33,33,33	0
57	MG	2A	3031	1/1	0.95	0.08	52,52,52,52	0
57	MG	2a	1644	1/1	0.95	0.30	61,61,61,61	0
57	MG	2A	3330	1/1	0.95	0.07	49,49,49,49	0
57	MG	2A	3032	1/1	0.95	0.07	45,45,45,45	0
57	MG	2a	1647	1/1	0.95	0.15	62,62,62,62	0
57	MG	1a	1612	1/1	0.95	0.21	52,52,52,52	0
57	MG	1a	1613	1/1	0.95	0.08	44,44,44,44	0
57	MG	2a	1650	1/1	0.95	0.25	53,53,53,53	0
57	MG	2A	3037	1/1	0.95	0.10	43,43,43,43	0
57	MG	2a	1652	1/1	0.95	0.10	63,63,63,63	0
57	MG	2a	1653	1/1	0.95	0.25	62,62,62,62	0
57	MG	1A	3523	1/1	0.95	0.10	57,57,57,57	0
57	MG	2A	3337	1/1	0.95	0.20	48,48,48,48	0
57	MG	2A	3648	1/1	0.95	0.16	38,38,38,38	0
57	MG	2A	3338	1/1	0.95	0.10	52,52,52,52	0
57	MG	1A	3682	1/1	0.95	0.05	23,23,23,23	0
57	MG	1A	3844	1/1	0.95	0.09	52,52,52,52	0
57	MG	2A	3652	1/1	0.95	0.15	55,55,55,55	0
57	MG	2A	3047	1/1	0.95	0.26	57,57,57,57	0
57	MG	2A	3048	1/1	0.95	0.10	53,53,53,53	0
57	MG	1a	1622	1/1	0.95	0.09	44,44,44,44	0
57	MG	2A	3658	1/1	0.95	0.09	59,59,59,59	0
57	MG	2A	3659	1/1	0.95	0.13	50,50,50,50	0
57	MG	2a	1668	1/1	0.95	0.16	62,62,62,62	0
57	MG	1A	3070	1/1	0.95	0.29	37,37,37,37	0
57	MG	2A	3661	1/1	0.95	0.11	53,53,53,53	0
57	MG	1A	3525	1/1	0.95	0.07	48,48,48,48	0
57	MG	1A	3257	1/1	0.95	0.15	42,42,42,42	0
57	MG	2a	1679	1/1	0.95	0.09	44,44,44,44	0
57	MG	1A	4036	1/1	0.95	0.08	40,40,40,40	0
57	MG	1A	3527	1/1	0.95	0.10	54,54,54,54	0
57	MG	1A	3334	1/1	0.95	0.14	44,44,44,44	0
57	MG	1A	3851	1/1	0.95	0.05	48,48,48,48	0
57	MG	1a	1630	1/1	0.95	0.19	47,47,47,47	0
57	MG	1A	3417	1/1	0.95	0.13	45,45,45,45	0
57	MG	2A	3062	1/1	0.95	0.18	58,58,58,58	0
57	MG	1A	3259	1/1	0.95	0.13	63,63,63,63	0
57	MG	1A	3186	1/1	0.95	0.25	33,33,33,33	0
57	MG	1A	3187	1/1	0.95	0.09	31,31,31,31	0
57	MG	1A	3429	1/1	0.95	0.09	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	4050	1/1	0.95	0.08	49,49,49,49	0
57	MG	2A	3072	1/1	0.95	0.08	41,41,41,41	0
57	MG	1A	3541	1/1	0.95	0.20	51,51,51,51	0
57	MG	2A	3685	1/1	0.95	0.13	50,50,50,50	0
57	MG	1A	3864	1/1	0.95	0.11	31,31,31,31	0
57	MG	1A	3543	1/1	0.95	0.11	37,37,37,37	0
57	MG	2A	3688	1/1	0.95	0.07	47,47,47,47	0
57	MG	2A	3689	1/1	0.95	0.07	54,54,54,54	0
57	MG	1A	3867	1/1	0.95	0.20	36,36,36,36	0
57	MG	2A	3691	1/1	0.95	0.14	50,50,50,50	0
57	MG	1A	3338	1/1	0.95	0.11	47,47,47,47	0
57	MG	2A	3368	1/1	0.95	0.06	50,50,50,50	0
57	MG	1A	3547	1/1	0.95	0.07	41,41,41,41	0
57	MG	2A	3087	1/1	0.95	0.23	63,63,63,63	0
57	MG	2A	3371	1/1	0.95	0.10	51,51,51,51	0
57	MG	1A	3704	1/1	0.95	0.08	42,42,42,42	0
57	MG	1A	3431	1/1	0.95	0.13	53,53,53,53	0
57	MG	1A	4070	1/1	0.95	0.05	37,37,37,37	0
57	MG	1A	3874	1/1	0.95	0.05	24,24,24,24	0
57	MG	1A	3708	1/1	0.95	0.10	46,46,46,46	0
57	MG	1A	3876	1/1	0.95	0.06	36,36,36,36	0
57	MG	2a	1718	1/1	0.95	0.15	56,56,56,56	0
57	MG	1A	3432	1/1	0.95	0.16	26,26,26,26	0
57	MG	1A	3878	1/1	0.95	0.15	37,37,37,37	0
57	MG	1A	3712	1/1	0.95	0.09	45,45,45,45	0
57	MG	1a	1671	1/1	0.95	0.16	51,51,51,51	0
57	MG	1a	1672	1/1	0.95	0.10	52,52,52,52	0
57	MG	1a	1673	1/1	0.95	0.12	45,45,45,45	0
57	MG	1A	4080	1/1	0.95	0.06	29,29,29,29	0
57	MG	1A	3880	1/1	0.95	0.21	40,40,40,40	0
57	MG	2A	3110	1/1	0.95	0.06	53,53,53,53	0
57	MG	1A	3433	1/1	0.95	0.14	41,41,41,41	0
57	MG	2A	3724	1/1	0.95	0.10	44,44,44,44	0
57	MG	1A	3434	1/1	0.95	0.07	39,39,39,39	0
57	MG	1a	1679	1/1	0.95	0.13	60,60,60,60	0
57	MG	2A	3730	1/1	0.95	0.06	47,47,47,47	0
57	MG	1A	3715	1/1	0.95	0.10	43,43,43,43	0
57	MG	1A	3716	1/1	0.95	0.12	37,37,37,37	0
57	MG	2A	3119	1/1	0.95	0.13	49,49,49,49	0
57	MG	1A	3559	1/1	0.95	0.10	33,33,33,33	0
57	MG	2A	3736	1/1	0.95	0.11	45,45,45,45	0
57	MG	1A	3266	1/1	0.95	0.10	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3401	1/1	0.95	0.14	53,53,53,53	0
57	MG	1A	4089	1/1	0.95	0.09	35,35,35,35	0
57	MG	1A	3111	1/1	0.95	0.09	39,39,39,39	0
57	MG	2A	3404	1/1	0.95	0.10	62,62,62,62	0
57	MG	1A	4092	1/1	0.95	0.04	19,19,19,19	0
57	MG	1A	3891	1/1	0.95	0.09	42,42,42,42	0
57	MG	1A	3721	1/1	0.95	0.06	57,57,57,57	0
57	MG	1A	3112	1/1	0.95	0.06	35,35,35,35	0
57	MG	2a	1767	1/1	0.95	0.07	58,58,58,58	0
57	MG	2a	1768	1/1	0.95	0.12	71,71,71,71	0
57	MG	1A	3724	1/1	0.95	0.11	54,54,54,54	0
57	MG	2A	3411	1/1	0.95	0.07	48,48,48,48	0
57	MG	1A	4098	1/1	0.95	0.07	14,14,14,14	0
57	MG	2a	1776	1/1	0.95	0.06	85,85,85,85	0
57	MG	1a	1696	1/1	0.95	0.19	41,41,41,41	0
57	MG	2a	1778	1/1	0.95	0.08	64,64,64,64	0
57	MG	1A	3567	1/1	0.95	0.18	48,48,48,48	0
57	MG	1A	4101	1/1	0.95	0.13	20,20,20,20	0
57	MG	1a	1700	1/1	0.95	0.20	48,48,48,48	0
57	MG	2A	3757	1/1	0.95	0.15	44,44,44,44	0
57	MG	2A	3145	1/1	0.95	0.13	44,44,44,44	0
57	MG	1A	3443	1/1	0.95	0.15	38,38,38,38	0
57	MG	1A	3117	1/1	0.95	0.12	36,36,36,36	0
57	MG	2a	1788	1/1	0.95	0.15	63,63,63,63	0
57	MG	1A	4106	1/1	0.95	0.07	50,50,50,50	0
57	MG	1A	3446	1/1	0.95	0.10	54,54,54,54	0
57	MG	1A	3732	1/1	0.95	0.08	47,47,47,47	0
57	MG	1A	3118	1/1	0.95	0.13	43,43,43,43	0
57	MG	2A	3157	1/1	0.95	0.10	34,34,34,34	0
57	MG	1A	3449	1/1	0.95	0.08	49,49,49,49	0
57	MG	1a	1710	1/1	0.95	0.09	53,53,53,53	0
57	MG	1A	3909	1/1	0.95	0.06	48,48,48,48	0
57	MG	1A	3450	1/1	0.95	0.10	43,43,43,43	0
57	MG	1A	3288	1/1	0.95	0.11	59,59,59,59	0
57	MG	2A	3777	1/1	0.95	0.13	55,55,55,55	0
57	MG	1A	3452	1/1	0.95	0.08	44,44,44,44	0
57	MG	1B	201	1/1	0.95	0.13	46,46,46,46	0
57	MG	2A	3784	1/1	0.95	0.07	72,72,72,72	0
57	MG	1B	203	1/1	0.95	0.10	43,43,43,43	0
57	MG	2A	3175	1/1	0.95	0.11	47,47,47,47	0
57	MG	1A	3121	1/1	0.95	0.17	29,29,29,29	0
57	MG	2A	3792	1/1	0.95	0.06	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3793	1/1	0.95	0.06	46,46,46,46	0
57	MG	2A	3441	1/1	0.95	0.10	38,38,38,38	0
57	MG	1B	209	1/1	0.95	0.15	44,44,44,44	0
57	MG	1A	3017	1/1	0.95	0.12	59,59,59,59	0
57	MG	1A	3747	1/1	0.95	0.09	52,52,52,52	0
57	MG	1A	3053	1/1	0.95	0.07	32,32,32,32	0
57	MG	1B	217	1/1	0.95	0.10	44,44,44,44	0
57	MG	1A	3926	1/1	0.95	0.05	31,31,31,31	0
57	MG	2A	3188	1/1	0.95	0.20	52,52,52,52	0
57	MG	1A	3929	1/1	0.95	0.16	55,55,55,55	0
57	MG	1A	3599	1/1	0.95	0.11	57,57,57,57	0
57	MG	2A	3192	1/1	0.95	0.07	51,51,51,51	0
57	MG	2a	1826	1/1	0.95	0.21	61,61,61,61	0
57	MG	2A	3808	1/1	0.95	0.07	53,53,53,53	0
57	MG	1A	3600	1/1	0.95	0.06	70,70,70,70	0
57	MG	1A	3934	1/1	0.95	0.10	58,58,58,58	0
57	MG	1A	3754	1/1	0.95	0.17	58,58,58,58	0
57	MG	1a	1737	1/1	0.95	0.07	36,36,36,36	0
57	MG	1A	3601	1/1	0.95	0.26	56,56,56,56	0
57	MG	1A	3361	1/1	0.95	0.08	50,50,50,50	0
57	MG	2A	3201	1/1	0.95	0.11	50,50,50,50	0
57	MG	1A	3362	1/1	0.95	0.10	55,55,55,55	0
57	MG	2A	3204	1/1	0.95	0.17	52,52,52,52	0
57	MG	1A	3365	1/1	0.95	0.09	45,45,45,45	0
57	MG	1A	3605	1/1	0.95	0.12	48,48,48,48	0
57	MG	2A	3208	1/1	0.95	0.17	50,50,50,50	0
57	MG	1A	3368	1/1	0.95	0.12	32,32,32,32	0
57	MG	1A	3369	1/1	0.95	0.12	45,45,45,45	0
57	MG	1a	1750	1/1	0.95	0.10	59,59,59,59	0
57	MG	2A	3473	1/1	0.95	0.13	58,58,58,58	0
57	MG	2A	3213	1/1	0.95	0.10	45,45,45,45	0
57	MG	2A	3214	1/1	0.95	0.16	54,54,54,54	0
57	MG	1A	3212	1/1	0.95	0.09	44,44,44,44	0
57	MG	1a	1753	1/1	0.95	0.09	48,48,48,48	0
57	MG	1A	3466	1/1	0.95	0.09	53,53,53,53	0
57	MG	1E	305	1/1	0.95	0.18	31,31,31,31	0
57	MG	2A	3839	1/1	0.95	0.12	51,51,51,51	0
57	MG	1E	307	1/1	0.95	0.14	55,55,55,55	0
57	MG	2A	3490	1/1	0.95	0.14	62,62,62,62	0
57	MG	1a	1763	1/1	0.95	0.09	42,42,42,42	0
57	MG	2A	3849	1/1	0.95	0.07	53,53,53,53	0
57	MG	1A	3611	1/1	0.95	0.05	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3771	1/1	0.95	0.09	43,43,43,43	0
57	MG	1A	3613	1/1	0.95	0.10	52,52,52,52	0
57	MG	2A	3855	1/1	0.95	0.07	37,37,37,37	0
57	MG	2A	3226	1/1	0.95	0.26	49,49,49,49	0
57	MG	1F	304	1/1	0.95	0.09	38,38,38,38	0
57	MG	2A	3861	1/1	0.95	0.06	57,57,57,57	0
57	MG	1F	307	1/1	0.95	0.13	44,44,44,44	0
57	MG	1A	3614	1/1	0.95	0.07	21,21,21,21	0
57	MG	2A	3230	1/1	0.95	0.20	39,39,39,39	0
57	MG	2A	3865	1/1	0.95	0.06	62,62,62,62	0
57	MG	1A	3295	1/1	0.95	0.07	44,44,44,44	0
57	MG	1G	202	1/1	0.95	0.15	50,50,50,50	0
57	MG	1A	3297	1/1	0.95	0.17	40,40,40,40	0
57	MG	1A	3036	1/1	0.96	0.06	37,37,37,37	0
57	MG	1A	3966	1/1	0.96	0.09	38,38,38,38	0
57	MG	1A	3784	1/1	0.96	0.09	60,60,60,60	0
57	MG	1A	3632	1/1	0.96	0.06	32,32,32,32	0
57	MG	2A	3212	1/1	0.96	0.08	45,45,45,45	0
57	MG	1A	3390	1/1	0.96	0.19	44,44,44,44	0
57	MG	2A	3868	1/1	0.96	0.06	66,66,66,66	0
57	MG	2A	3869	1/1	0.96	0.06	60,60,60,60	0
57	MG	1A	3216	1/1	0.96	0.11	40,40,40,40	0
57	MG	1A	3217	1/1	0.96	0.06	34,34,34,34	0
57	MG	1A	3498	1/1	0.96	0.16	39,39,39,39	0
57	MG	1A	3499	1/1	0.96	0.06	52,52,52,52	0
57	MG	2A	3874	1/1	0.96	0.15	47,47,47,47	0
57	MG	2A	3510	1/1	0.96	0.05	20,20,20,20	0
57	MG	2A	3218	1/1	0.96	0.09	55,55,55,55	0
57	MG	2A	3514	1/1	0.96	0.09	58,58,58,58	0
57	MG	1A	3793	1/1	0.96	0.08	46,46,46,46	0
57	MG	1A	3794	1/1	0.96	0.06	33,33,33,33	0
57	MG	2A	3884	1/1	0.96	0.08	49,49,49,49	0
57	MG	1A	3977	1/1	0.96	0.09	54,54,54,54	0
57	MG	2A	3888	1/1	0.96	0.14	54,54,54,54	0
57	MG	2A	3518	1/1	0.96	0.07	37,37,37,37	0
57	MG	2A	3222	1/1	0.96	0.18	46,46,46,46	0
57	MG	1A	3641	1/1	0.96	0.06	18,18,18,18	0
57	MG	1A	3092	1/1	0.96	0.15	38,38,38,38	0
57	MG	2A	3523	1/1	0.96	0.14	54,54,54,54	0
57	MG	1a	1775	1/1	0.96	0.10	44,44,44,44	0
57	MG	1Q	205	1/1	0.96	0.06	37,37,37,37	0
57	MG	1a	1777	1/1	0.96	0.07	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1Q	206	1/1	0.96	0.07	61,61,61,61	0
57	MG	1A	3982	1/1	0.96	0.06	25,25,25,25	0
57	MG	1a	1781	1/1	0.96	0.15	73,73,73,73	0
57	MG	1A	3644	1/1	0.96	0.05	22,22,22,22	0
57	MG	2B	211	1/1	0.96	0.15	57,57,57,57	0
57	MG	2A	3233	1/1	0.96	0.21	53,53,53,53	0
57	MG	1A	3645	1/1	0.96	0.15	41,41,41,41	0
57	MG	2A	3535	1/1	0.96	0.16	63,63,63,63	0
57	MG	1A	3801	1/1	0.96	0.08	40,40,40,40	0
57	MG	1A	3306	1/1	0.96	0.11	40,40,40,40	0
57	MG	1A	3990	1/1	0.96	0.06	48,48,48,48	0
57	MG	2A	3541	1/1	0.96	0.07	43,43,43,43	0
57	MG	1A	3397	1/1	0.96	0.08	31,31,31,31	0
57	MG	1T	201	1/1	0.96	0.08	49,49,49,49	0
57	MG	2D	301	1/1	0.96	0.15	47,47,47,47	0
57	MG	1A	3144	1/1	0.96	0.09	35,35,35,35	0
57	MG	2A	3546	1/1	0.96	0.07	44,44,44,44	0
57	MG	1A	3149	1/1	0.96	0.16	40,40,40,40	0
57	MG	1A	3507	1/1	0.96	0.11	24,24,24,24	0
57	MG	1A	3809	1/1	0.96	0.04	44,44,44,44	0
57	MG	1A	3652	1/1	0.96	0.09	29,29,29,29	0
57	MG	1V	204	1/1	0.96	0.22	36,36,36,36	0
57	MG	1A	3999	1/1	0.96	0.06	58,58,58,58	0
57	MG	1a	1804	1/1	0.96	0.07	52,52,52,52	0
57	MG	1V	207	1/1	0.96	0.05	36,36,36,36	0
57	MG	1A	3093	1/1	0.96	0.05	22,22,22,22	0
57	MG	1W	202	1/1	0.96	0.11	42,42,42,42	0
57	MG	2O	202	1/1	0.96	0.08	57,57,57,57	0
57	MG	1a	1814	1/1	0.96	0.07	56,56,56,56	0
57	MG	1A	3230	1/1	0.96	0.10	45,45,45,45	0
57	MG	1A	3513	1/1	0.96	0.23	33,33,33,33	0
57	MG	2A	3561	1/1	0.96	0.08	54,54,54,54	0
57	MG	1A	3817	1/1	0.96	0.10	48,48,48,48	0
57	MG	1a	1819	1/1	0.96	0.23	47,47,47,47	0
57	MG	1A	3661	1/1	0.96	0.06	40,40,40,40	0
57	MG	1A	3664	1/1	0.96	0.06	39,39,39,39	0
57	MG	1A	3232	1/1	0.96	0.12	57,57,57,57	0
57	MG	2V	202	1/1	0.96	0.17	41,41,41,41	0
57	MG	1e	201	1/1	0.96	0.09	67,67,67,67	0
57	MG	1A	3666	1/1	0.96	0.11	35,35,35,35	0
57	MG	1l	201	1/1	0.96	0.09	60,60,60,60	0
57	MG	2A	3272	1/1	0.96	0.17	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3273	1/1	0.96	0.08	46,46,46,46	0
57	MG	1A	3152	1/1	0.96	0.07	41,41,41,41	0
57	MG	1A	3315	1/1	0.96	0.19	46,46,46,46	0
57	MG	10	106	1/1	0.96	0.06	47,47,47,47	0
57	MG	1A	3519	1/1	0.96	0.10	52,52,52,52	0
57	MG	10	108	1/1	0.96	0.06	42,42,42,42	0
57	MG	23	104	1/1	0.96	0.06	45,45,45,45	0
57	MG	2A	3580	1/1	0.96	0.08	46,46,46,46	0
57	MG	25	102	1/1	0.96	0.12	42,42,42,42	0
57	MG	11	101	1/1	0.96	0.26	38,38,38,38	0
57	MG	2A	3280	1/1	0.96	0.20	56,56,56,56	0
57	MG	11	102	1/1	0.96	0.17	56,56,56,56	0
57	MG	1w	104	1/1	0.96	0.12	66,66,66,66	0
57	MG	1w	105	1/1	0.96	0.14	50,50,50,50	0
57	MG	1A	3828	1/1	0.96	0.05	30,30,30,30	0
57	MG	1A	3670	1/1	0.96	0.06	24,24,24,24	0
57	MG	1A	3831	1/1	0.96	0.07	28,28,28,28	0
57	MG	2A	3595	1/1	0.96	0.10	54,54,54,54	0
57	MG	1w	109	1/1	0.96	0.14	46,46,46,46	0
57	MG	1A	3154	1/1	0.96	0.07	37,37,37,37	0
57	MG	2A	3289	1/1	0.96	0.15	46,46,46,46	0
57	MG	1A	3160	1/1	0.96	0.18	50,50,50,50	0
57	MG	1A	3240	1/1	0.96	0.07	44,44,44,44	0
57	MG	2A	3293	1/1	0.96	0.17	49,49,49,49	0
57	MG	1A	3069	1/1	0.96	0.09	32,32,32,32	0
57	MG	1x	104	1/1	0.96	0.12	64,64,64,64	0
57	MG	2A	3607	1/1	0.96	0.09	43,43,43,43	0
57	MG	1A	3324	1/1	0.96	0.05	34,34,34,34	0
57	MG	1x	106	1/1	0.96	0.11	61,61,61,61	0
57	MG	1A	3244	1/1	0.96	0.06	44,44,44,44	0
57	MG	15	102	1/1	0.96	0.07	30,30,30,30	0
57	MG	15	103	1/1	0.96	0.12	24,24,24,24	0
57	MG	1A	3679	1/1	0.96	0.07	34,34,34,34	0
57	MG	16	101	1/1	0.96	0.10	54,54,54,54	0
57	MG	2A	3303	1/1	0.96	0.10	45,45,45,45	0
57	MG	1A	3056	1/1	0.96	0.12	39,39,39,39	0
57	MG	18	101	1/1	0.96	0.16	41,41,41,41	0
57	MG	1A	3418	1/1	0.96	0.06	48,48,48,48	0
57	MG	1x	115	1/1	0.96	0.07	47,47,47,47	0
57	MG	1A	3420	1/1	0.96	0.06	41,41,41,41	0
57	MG	18	105	1/1	0.96	0.14	45,45,45,45	0
57	MG	2A	3312	1/1	0.96	0.07	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	4028	1/1	0.96	0.06	69,69,69,69	0
57	MG	1A	3099	1/1	0.96	0.07	36,36,36,36	0
57	MG	1A	3535	1/1	0.96	0.15	43,43,43,43	0
57	MG	1A	4032	1/1	0.96	0.06	28,28,28,28	0
57	MG	2A	3631	1/1	0.96	0.16	53,53,53,53	0
57	MG	1A	3422	1/1	0.96	0.10	29,29,29,29	0
57	MG	2A	3634	1/1	0.96	0.11	38,38,38,38	0
57	MG	2A	3635	1/1	0.96	0.07	41,41,41,41	0
57	MG	1A	3537	1/1	0.96	0.13	35,35,35,35	0
57	MG	1A	3424	1/1	0.96	0.08	33,33,33,33	0
57	MG	1a	1610	1/1	0.96	0.09	51,51,51,51	0
57	MG	2A	3010	1/1	0.96	0.21	54,54,54,54	0
57	MG	2A	3012	1/1	0.96	0.06	32,32,32,32	0
57	MG	1A	3330	1/1	0.96	0.18	51,51,51,51	0
57	MG	2A	3018	1/1	0.96	0.08	38,38,38,38	0
57	MG	1A	4041	1/1	0.96	0.12	65,65,65,65	0
57	MG	2A	3644	1/1	0.96	0.07	47,47,47,47	0
57	MG	1A	3852	1/1	0.96	0.06	50,50,50,50	0
57	MG	2A	3025	1/1	0.96	0.14	53,53,53,53	0
57	MG	1A	3001	1/1	0.96	0.05	39,39,39,39	0
57	MG	1A	3696	1/1	0.96	0.07	30,30,30,30	0
57	MG	1A	3248	1/1	0.96	0.10	52,52,52,52	0
57	MG	2A	3332	1/1	0.96	0.08	44,44,44,44	0
57	MG	2a	1654	1/1	0.96	0.12	51,51,51,51	0
57	MG	1A	3542	1/1	0.96	0.08	23,23,23,23	0
57	MG	1A	3250	1/1	0.96	0.15	38,38,38,38	0
57	MG	2A	3035	1/1	0.96	0.06	32,32,32,32	0
57	MG	1A	3859	1/1	0.96	0.06	17,17,17,17	0
57	MG	2A	3657	1/1	0.96	0.09	57,57,57,57	0
57	MG	1A	4051	1/1	0.96	0.06	70,70,70,70	0
57	MG	2A	3038	1/1	0.96	0.07	31,31,31,31	0
57	MG	2A	3039	1/1	0.96	0.10	47,47,47,47	0
57	MG	1A	3860	1/1	0.96	0.10	41,41,41,41	0
57	MG	2A	3662	1/1	0.96	0.09	54,54,54,54	0
57	MG	2A	3663	1/1	0.96	0.10	44,44,44,44	0
57	MG	2A	3041	1/1	0.96	0.07	44,44,44,44	0
57	MG	1A	4054	1/1	0.96	0.06	50,50,50,50	0
57	MG	1A	3861	1/1	0.96	0.10	63,63,63,63	0
57	MG	1A	3862	1/1	0.96	0.06	51,51,51,51	0
57	MG	1A	3075	1/1	0.96	0.11	37,37,37,37	0
57	MG	2a	1672	1/1	0.96	0.12	52,52,52,52	0
57	MG	2a	1673	1/1	0.96	0.07	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1633	1/1	0.96	0.20	50,50,50,50	0
57	MG	2a	1675	1/1	0.96	0.17	56,56,56,56	0
57	MG	2a	1676	1/1	0.96	0.17	47,47,47,47	0
57	MG	2a	1678	1/1	0.96	0.12	36,36,36,36	0
57	MG	1A	4064	1/1	0.96	0.07	54,54,54,54	0
57	MG	1A	3546	1/1	0.96	0.14	43,43,43,43	0
57	MG	1A	3171	1/1	0.96	0.13	32,32,32,32	0
57	MG	1A	3255	1/1	0.96	0.06	34,34,34,34	0
57	MG	1A	3177	1/1	0.96	0.10	34,34,34,34	0
57	MG	1A	3869	1/1	0.96	0.13	45,45,45,45	0
57	MG	1A	3706	1/1	0.96	0.11	30,30,30,30	0
57	MG	1A	3871	1/1	0.96	0.10	44,44,44,44	0
57	MG	2A	3682	1/1	0.96	0.10	51,51,51,51	0
57	MG	1a	1642	1/1	0.96	0.11	58,58,58,58	0
57	MG	1A	3258	1/1	0.96	0.12	49,49,49,49	0
57	MG	1A	3709	1/1	0.96	0.08	33,33,33,33	0
57	MG	1a	1648	1/1	0.96	0.07	46,46,46,46	0
57	MG	1A	3341	1/1	0.96	0.12	34,34,34,34	0
57	MG	1A	3553	1/1	0.96	0.13	46,46,46,46	0
57	MG	1a	1655	1/1	0.96	0.14	51,51,51,51	0
57	MG	2A	3068	1/1	0.96	0.07	49,49,49,49	0
57	MG	2A	3071	1/1	0.96	0.07	38,38,38,38	0
57	MG	1A	4079	1/1	0.96	0.14	50,50,50,50	0
57	MG	2a	1700	1/1	0.96	0.18	53,53,53,53	0
57	MG	2a	1702	1/1	0.96	0.29	59,59,59,59	0
57	MG	1A	3438	1/1	0.96	0.08	39,39,39,39	0
57	MG	1A	3061	1/1	0.96	0.08	30,30,30,30	0
57	MG	2A	3077	1/1	0.96	0.06	44,44,44,44	0
57	MG	1A	3441	1/1	0.96	0.15	37,37,37,37	0
57	MG	2A	3697	1/1	0.96	0.09	44,44,44,44	0
57	MG	1A	3180	1/1	0.96	0.09	49,49,49,49	0
57	MG	2A	3081	1/1	0.96	0.08	41,41,41,41	0
57	MG	2A	3374	1/1	0.96	0.15	56,56,56,56	0
57	MG	2A	3082	1/1	0.96	0.11	52,52,52,52	0
57	MG	1a	1664	1/1	0.96	0.06	41,41,41,41	0
57	MG	1a	1665	1/1	0.96	0.18	54,54,54,54	0
57	MG	2A	3705	1/1	0.96	0.11	50,50,50,50	0
57	MG	2A	3086	1/1	0.96	0.06	44,44,44,44	0
57	MG	2A	3708	1/1	0.96	0.10	43,43,43,43	0
57	MG	1A	3345	1/1	0.96	0.09	36,36,36,36	0
57	MG	1A	3110	1/1	0.96	0.07	40,40,40,40	0
57	MG	2A	3712	1/1	0.96	0.06	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3089	1/1	0.96	0.06	45,45,45,45	0
57	MG	2a	1722	1/1	0.96	0.28	69,69,69,69	0
57	MG	1A	3351	1/1	0.96	0.08	45,45,45,45	0
57	MG	2A	3385	1/1	0.96	0.06	40,40,40,40	0
57	MG	1A	3265	1/1	0.96	0.07	59,59,59,59	0
57	MG	2A	3093	1/1	0.96	0.17	51,51,51,51	0
57	MG	1A	3079	1/1	0.96	0.11	31,31,31,31	0
57	MG	1A	3582	1/1	0.96	0.13	41,41,41,41	0
57	MG	2A	3723	1/1	0.96	0.07	40,40,40,40	0
57	MG	1A	3725	1/1	0.96	0.07	23,23,23,23	0
57	MG	1A	3354	1/1	0.96	0.12	53,53,53,53	0
57	MG	2A	3098	1/1	0.96	0.07	36,36,36,36	0
57	MG	2a	1733	1/1	0.96	0.12	42,42,42,42	0
57	MG	2A	3100	1/1	0.96	0.21	56,56,56,56	0
57	MG	1A	3727	1/1	0.96	0.10	43,43,43,43	0
57	MG	2a	1737	1/1	0.96	0.07	57,57,57,57	0
57	MG	1A	3356	1/1	0.96	0.07	43,43,43,43	0
57	MG	2a	1740	1/1	0.96	0.06	78,78,78,78	0
57	MG	1A	3893	1/1	0.96	0.04	27,27,27,27	0
57	MG	1a	1678	1/1	0.96	0.07	55,55,55,55	0
57	MG	1A	3081	1/1	0.96	0.18	31,31,31,31	0
57	MG	2a	1745	1/1	0.96	0.08	60,60,60,60	0
57	MG	1A	3358	1/1	0.96	0.29	37,37,37,37	0
57	MG	1A	3897	1/1	0.96	0.08	40,40,40,40	0
57	MG	1A	3272	1/1	0.96	0.13	33,33,33,33	0
57	MG	2a	1750	1/1	0.96	0.11	64,64,64,64	0
57	MG	2a	1751	1/1	0.96	0.12	58,58,58,58	0
57	MG	1A	3082	1/1	0.96	0.15	29,29,29,29	0
57	MG	2A	3113	1/1	0.96	0.20	57,57,57,57	0
57	MG	2a	1755	1/1	0.96	0.06	45,45,45,45	0
57	MG	2a	1756	1/1	0.96	0.12	55,55,55,55	0
57	MG	2a	1758	1/1	0.96	0.08	73,73,73,73	0
57	MG	2A	3742	1/1	0.96	0.10	59,59,59,59	0
57	MG	2a	1761	1/1	0.96	0.07	57,57,57,57	0
57	MG	2a	1762	1/1	0.96	0.09	51,51,51,51	0
57	MG	2A	3406	1/1	0.96	0.21	52,52,52,52	0
57	MG	1a	1686	1/1	0.96	0.10	48,48,48,48	0
57	MG	1A	3901	1/1	0.96	0.09	26,26,26,26	0
57	MG	1A	3274	1/1	0.96	0.08	42,42,42,42	0
57	MG	1A	3735	1/1	0.96	0.06	48,48,48,48	0
57	MG	1A	3281	1/1	0.96	0.07	36,36,36,36	0
57	MG	2a	1771	1/1	0.96	0.07	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3737	1/1	0.96	0.08	43,43,43,43	0
57	MG	1A	3459	1/1	0.96	0.06	43,43,43,43	0
57	MG	1A	4117	1/1	0.96	0.10	43,43,43,43	0
57	MG	2A	3415	1/1	0.96	0.10	51,51,51,51	0
57	MG	2A	3755	1/1	0.96	0.06	38,38,38,38	0
57	MG	1A	3364	1/1	0.96	0.24	44,44,44,44	0
57	MG	1A	3282	1/1	0.96	0.17	53,53,53,53	0
57	MG	1A	3283	1/1	0.96	0.10	36,36,36,36	0
57	MG	1a	1698	1/1	0.96	0.23	39,39,39,39	0
57	MG	2A	3760	1/1	0.96	0.06	49,49,49,49	0
57	MG	1A	3746	1/1	0.96	0.06	44,44,44,44	0
57	MG	1A	3463	1/1	0.96	0.06	53,53,53,53	0
57	MG	1a	1701	1/1	0.96	0.14	51,51,51,51	0
57	MG	1B	204	1/1	0.96	0.23	53,53,53,53	0
57	MG	2a	1790	1/1	0.96	0.07	49,49,49,49	0
57	MG	2A	3138	1/1	0.96	0.17	46,46,46,46	0
57	MG	2a	1792	1/1	0.96	0.10	42,42,42,42	0
57	MG	2A	3767	1/1	0.96	0.14	55,55,55,55	0
57	MG	1a	1703	1/1	0.96	0.10	51,51,51,51	0
57	MG	1B	206	1/1	0.96	0.16	47,47,47,47	0
57	MG	2A	3429	1/1	0.96	0.10	43,43,43,43	0
57	MG	1A	3087	1/1	0.96	0.06	35,35,35,35	0
57	MG	1A	3119	1/1	0.96	0.19	30,30,30,30	0
57	MG	1A	3752	1/1	0.96	0.07	26,26,26,26	0
57	MG	1B	212	1/1	0.96	0.10	50,50,50,50	0
57	MG	2A	3778	1/1	0.96	0.09	52,52,52,52	0
57	MG	2a	1802	1/1	0.96	0.14	50,50,50,50	0
57	MG	2A	3779	1/1	0.96	0.05	42,42,42,42	0
57	MG	1A	3372	1/1	0.96	0.20	43,43,43,43	0
57	MG	1B	215	1/1	0.96	0.10	38,38,38,38	0
57	MG	2A	3782	1/1	0.96	0.07	52,52,52,52	0
57	MG	2A	3436	1/1	0.96	0.25	46,46,46,46	0
57	MG	2A	3437	1/1	0.96	0.13	39,39,39,39	0
57	MG	2A	3152	1/1	0.96	0.21	57,57,57,57	0
57	MG	2a	1810	1/1	0.96	0.11	56,56,56,56	0
57	MG	2a	1811	1/1	0.96	0.08	64,64,64,64	0
57	MG	1A	3927	1/1	0.96	0.14	30,30,30,30	0
57	MG	1A	3608	1/1	0.96	0.06	43,43,43,43	0
57	MG	2a	1814	1/1	0.96	0.08	60,60,60,60	0
57	MG	1A	3931	1/1	0.96	0.07	63,63,63,63	0
57	MG	2A	3158	1/1	0.96	0.07	48,48,48,48	0
57	MG	1A	3755	1/1	0.96	0.07	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3161	1/1	0.96	0.08	62,62,62,62	0
57	MG	1A	3194	1/1	0.96	0.09	36,36,36,36	0
57	MG	2a	1820	1/1	0.96	0.21	53,53,53,53	0
57	MG	1A	3289	1/1	0.96	0.08	52,52,52,52	0
57	MG	1B	224	1/1	0.96	0.06	34,34,34,34	0
57	MG	1A	3195	1/1	0.96	0.18	35,35,35,35	0
57	MG	2A	3449	1/1	0.96	0.23	59,59,59,59	0
57	MG	1A	3612	1/1	0.96	0.05	29,29,29,29	0
57	MG	1A	3196	1/1	0.96	0.07	37,37,37,37	0
57	MG	1A	3939	1/1	0.96	0.07	52,52,52,52	0
57	MG	1A	3015	1/1	0.96	0.13	34,34,34,34	0
57	MG	1A	3941	1/1	0.96	0.10	43,43,43,43	0
57	MG	1A	3126	1/1	0.96	0.12	58,58,58,58	0
57	MG	1A	3132	1/1	0.96	0.14	44,44,44,44	0
57	MG	1a	1730	1/1	0.96	0.21	49,49,49,49	0
57	MG	2A	3182	1/1	0.96	0.09	46,46,46,46	0
57	MG	2A	3815	1/1	0.96	0.12	56,56,56,56	0
57	MG	1A	3482	1/1	0.96	0.08	54,54,54,54	0
57	MG	2A	3462	1/1	0.96	0.14	51,51,51,51	0
57	MG	1a	1734	1/1	0.96	0.09	46,46,46,46	0
57	MG	1D	304	1/1	0.96	0.06	43,43,43,43	0
57	MG	2A	3820	1/1	0.96	0.06	56,56,56,56	0
57	MG	2e	201	1/1	0.96	0.05	58,58,58,58	0
57	MG	2A	3821	1/1	0.96	0.06	66,66,66,66	0
57	MG	2A	3187	1/1	0.96	0.07	48,48,48,48	0
57	MG	1D	308	1/1	0.96	0.06	31,31,31,31	0
57	MG	2A	3189	1/1	0.96	0.06	47,47,47,47	0
57	MG	2l	201	1/1	0.96	0.19	56,56,56,56	0
57	MG	2A	3825	1/1	0.96	0.10	60,60,60,60	0
57	MG	1D	310	1/1	0.96	0.07	44,44,44,44	0
57	MG	2A	3469	1/1	0.96	0.26	44,44,44,44	0
57	MG	2A	3828	1/1	0.96	0.06	51,51,51,51	0
57	MG	1A	3136	1/1	0.96	0.07	44,44,44,44	0
57	MG	1A	3137	1/1	0.96	0.11	25,25,25,25	0
57	MG	1A	3953	1/1	0.96	0.04	29,29,29,29	0
57	MG	2A	3474	1/1	0.96	0.06	36,36,36,36	0
57	MG	2A	3475	1/1	0.96	0.21	59,59,59,59	0
57	MG	2w	101	1/1	0.96	0.20	64,64,64,64	0
57	MG	1a	1743	1/1	0.96	0.11	53,53,53,53	0
57	MG	1A	3622	1/1	0.96	0.09	29,29,29,29	0
57	MG	1a	1745	1/1	0.96	0.12	45,45,45,45	0
57	MG	1A	3624	1/1	0.96	0.05	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3483	1/1	0.96	0.16	52,52,52,52	0
57	MG	2A	3842	1/1	0.96	0.07	37,37,37,37	0
57	MG	1A	3625	1/1	0.96	0.05	13,13,13,13	0
57	MG	2A	3845	1/1	0.96	0.06	42,42,42,42	0
57	MG	2x	103	1/1	0.96	0.09	56,56,56,56	0
57	MG	1A	3385	1/1	0.96	0.16	41,41,41,41	0
57	MG	1F	301	1/1	0.96	0.13	33,33,33,33	0
57	MG	2A	3203	1/1	0.96	0.10	56,56,56,56	0
57	MG	1a	1751	1/1	0.96	0.05	45,45,45,45	0
57	MG	2A	3492	1/1	0.96	0.09	44,44,44,44	0
57	MG	1A	3491	1/1	0.96	0.07	47,47,47,47	0
57	MG	1A	3780	1/1	0.96	0.04	42,42,42,42	0
57	MG	2A	3207	1/1	0.96	0.17	49,49,49,49	0
59	ZN	24	501	1/1	0.96	0.12	108,108,108,108	0
57	MG	2A	3549	1/1	0.97	0.12	37,37,37,37	0
57	MG	2A	3248	1/1	0.97	0.08	51,51,51,51	0
57	MG	2A	3250	1/1	0.97	0.07	43,43,43,43	0
57	MG	2A	3251	1/1	0.97	0.05	52,52,52,52	0
57	MG	1A	3083	1/1	0.97	0.05	30,30,30,30	0
57	MG	1Y	203	1/1	0.97	0.16	37,37,37,37	0
57	MG	2A	3254	1/1	0.97	0.11	55,55,55,55	0
57	MG	1A	3085	1/1	0.97	0.09	37,37,37,37	0
57	MG	1A	3839	1/1	0.97	0.14	46,46,46,46	0
57	MG	1A	3261	1/1	0.97	0.21	46,46,46,46	0
57	MG	1A	3120	1/1	0.97	0.08	27,27,27,27	0
57	MG	1A	3263	1/1	0.97	0.12	44,44,44,44	0
57	MG	1A	3048	1/1	0.97	0.08	27,27,27,27	0
57	MG	1m	3001	1/1	0.97	0.09	49,49,49,49	0
57	MG	1m	3002	1/1	0.97	0.06	63,63,63,63	0
57	MG	1A	3349	1/1	0.97	0.13	57,57,57,57	0
57	MG	1A	3123	1/1	0.97	0.09	37,37,37,37	0
57	MG	2A	3268	1/1	0.97	0.19	50,50,50,50	0
57	MG	2E	302	1/1	0.97	0.06	36,36,36,36	0
57	MG	1A	3267	1/1	0.97	0.08	49,49,49,49	0
57	MG	10	109	1/1	0.97	0.07	38,38,38,38	0
57	MG	1A	3268	1/1	0.97	0.06	44,44,44,44	0
57	MG	2F	301	1/1	0.97	0.07	41,41,41,41	0
57	MG	1A	3124	1/1	0.97	0.15	50,50,50,50	0
57	MG	11	103	1/1	0.97	0.09	44,44,44,44	0
57	MG	2F	304	1/1	0.97	0.14	48,48,48,48	0
57	MG	2F	305	1/1	0.97	0.10	41,41,41,41	0
57	MG	1A	3850	1/1	0.97	0.07	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3545	1/1	0.97	0.10	51,51,51,51	0
57	MG	2A	3576	1/1	0.97	0.07	37,37,37,37	0
57	MG	1A	3693	1/1	0.97	0.04	26,26,26,26	0
57	MG	1A	4035	1/1	0.97	0.05	36,36,36,36	0
57	MG	1A	3125	1/1	0.97	0.10	31,31,31,31	0
57	MG	2Q	201	1/1	0.97	0.05	58,58,58,58	0
57	MG	1A	4037	1/1	0.97	0.05	40,40,40,40	0
57	MG	13	103	1/1	0.97	0.04	33,33,33,33	0
57	MG	1A	4038	1/1	0.97	0.07	34,34,34,34	0
57	MG	2A	3583	1/1	0.97	0.07	50,50,50,50	0
57	MG	1A	3695	1/1	0.97	0.06	30,30,30,30	0
57	MG	1A	3442	1/1	0.97	0.08	32,32,32,32	0
57	MG	2A	3587	1/1	0.97	0.05	63,63,63,63	0
57	MG	15	101	1/1	0.97	0.14	18,18,18,18	0
57	MG	1A	3355	1/1	0.97	0.07	28,28,28,28	0
57	MG	1A	3444	1/1	0.97	0.21	35,35,35,35	0
57	MG	2A	3592	1/1	0.97	0.06	42,42,42,42	0
57	MG	15	104	1/1	0.97	0.12	25,25,25,25	0
57	MG	2A	3594	1/1	0.97	0.08	53,53,53,53	0
57	MG	15	105	1/1	0.97	0.13	24,24,24,24	0
57	MG	2A	3596	1/1	0.97	0.06	47,47,47,47	0
57	MG	1A	3197	1/1	0.97	0.10	27,27,27,27	0
57	MG	1A	3066	1/1	0.97	0.20	54,54,54,54	0
57	MG	17	101	1/1	0.97	0.05	35,35,35,35	0
57	MG	23	102	1/1	0.97	0.07	52,52,52,52	0
57	MG	2A	3601	1/1	0.97	0.10	41,41,41,41	0
57	MG	1A	3552	1/1	0.97	0.09	47,47,47,47	0
57	MG	1A	3447	1/1	0.97	0.06	34,34,34,34	0
57	MG	1A	3703	1/1	0.97	0.07	42,42,42,42	0
57	MG	1A	3089	1/1	0.97	0.09	53,53,53,53	0
57	MG	1A	3865	1/1	0.97	0.06	37,37,37,37	0
57	MG	1A	3204	1/1	0.97	0.14	31,31,31,31	0
57	MG	27	101	1/1	0.97	0.10	49,49,49,49	0
57	MG	1A	4053	1/1	0.97	0.06	66,66,66,66	0
57	MG	1A	3090	1/1	0.97	0.09	26,26,26,26	0
57	MG	1A	3067	1/1	0.97	0.04	29,29,29,29	0
57	MG	1A	4057	1/1	0.97	0.06	61,61,61,61	0
57	MG	2A	3005	1/1	0.97	0.23	52,52,52,52	0
57	MG	1A	3566	1/1	0.97	0.12	43,43,43,43	0
57	MG	2A	3306	1/1	0.97	0.07	52,52,52,52	0
57	MG	1a	1607	1/1	0.97	0.20	45,45,45,45	0
57	MG	1A	4060	1/1	0.97	0.08	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3210	1/1	0.97	0.04	38,38,38,38	0
57	MG	2A	3619	1/1	0.97	0.10	47,47,47,47	0
57	MG	1A	4063	1/1	0.97	0.04	37,37,37,37	0
57	MG	2A	3013	1/1	0.97	0.08	42,42,42,42	0
57	MG	2A	3015	1/1	0.97	0.11	46,46,46,46	0
57	MG	2A	3016	1/1	0.97	0.11	56,56,56,56	0
57	MG	1A	3569	1/1	0.97	0.05	23,23,23,23	0
57	MG	2A	3315	1/1	0.97	0.06	58,58,58,58	0
57	MG	1A	3363	1/1	0.97	0.20	32,32,32,32	0
57	MG	1a	1614	1/1	0.97	0.11	53,53,53,53	0
57	MG	1A	3572	1/1	0.97	0.07	49,49,49,49	0
57	MG	2A	3024	1/1	0.97	0.27	37,37,37,37	0
57	MG	1A	3139	1/1	0.97	0.06	40,40,40,40	0
57	MG	2A	3026	1/1	0.97	0.06	43,43,43,43	0
57	MG	2A	3027	1/1	0.97	0.19	54,54,54,54	0
57	MG	1A	4068	1/1	0.97	0.12	35,35,35,35	0
57	MG	1A	3574	1/1	0.97	0.24	43,43,43,43	0
57	MG	1A	3575	1/1	0.97	0.26	32,32,32,32	0
57	MG	1A	3577	1/1	0.97	0.10	35,35,35,35	0
57	MG	1A	3578	1/1	0.97	0.06	33,33,33,33	0
57	MG	1A	3029	1/1	0.97	0.05	29,29,29,29	0
57	MG	1A	3290	1/1	0.97	0.14	27,27,27,27	0
57	MG	2a	1629	1/1	0.97	0.19	51,51,51,51	0
57	MG	1A	4076	1/1	0.97	0.06	32,32,32,32	0
57	MG	1A	3723	1/1	0.97	0.06	13,13,13,13	0
57	MG	1A	3882	1/1	0.97	0.13	35,35,35,35	0
57	MG	1A	3581	1/1	0.97	0.20	32,32,32,32	0
57	MG	1A	3022	1/1	0.97	0.06	44,44,44,44	0
57	MG	2A	3042	1/1	0.97	0.12	47,47,47,47	0
57	MG	1A	3143	1/1	0.97	0.14	34,34,34,34	0
57	MG	2A	3044	1/1	0.97	0.08	57,57,57,57	0
57	MG	2A	3045	1/1	0.97	0.18	56,56,56,56	0
57	MG	1A	3584	1/1	0.97	0.11	38,38,38,38	0
57	MG	1A	3585	1/1	0.97	0.06	32,32,32,32	0
57	MG	1A	3586	1/1	0.97	0.07	42,42,42,42	0
57	MG	1A	3587	1/1	0.97	0.11	44,44,44,44	0
57	MG	1A	3588	1/1	0.97	0.09	42,42,42,42	0
57	MG	1A	3589	1/1	0.97	0.07	41,41,41,41	0
57	MG	1A	4088	1/1	0.97	0.09	44,44,44,44	0
57	MG	2A	3346	1/1	0.97	0.12	47,47,47,47	0
57	MG	1A	3371	1/1	0.97	0.06	40,40,40,40	0
57	MG	1a	1644	1/1	0.97	0.10	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3218	1/1	0.97	0.07	37,37,37,37	0
57	MG	2A	3665	1/1	0.97	0.05	29,29,29,29	0
57	MG	1a	1646	1/1	0.97	0.10	45,45,45,45	0
57	MG	1a	1647	1/1	0.97	0.14	48,48,48,48	0
57	MG	1A	4091	1/1	0.97	0.04	31,31,31,31	0
57	MG	1a	1649	1/1	0.97	0.07	58,58,58,58	0
57	MG	1A	3219	1/1	0.97	0.10	39,39,39,39	0
57	MG	2A	3672	1/1	0.97	0.09	53,53,53,53	0
57	MG	1A	3220	1/1	0.97	0.11	31,31,31,31	0
57	MG	1A	3004	1/1	0.97	0.04	20,20,20,20	0
57	MG	1a	1656	1/1	0.97	0.15	46,46,46,46	0
57	MG	1A	3740	1/1	0.97	0.07	24,24,24,24	0
57	MG	1a	1658	1/1	0.97	0.23	54,54,54,54	0
57	MG	2A	3070	1/1	0.97	0.10	51,51,51,51	0
57	MG	2a	1665	1/1	0.97	0.10	61,61,61,61	0
57	MG	2A	3361	1/1	0.97	0.09	47,47,47,47	0
57	MG	2A	3362	1/1	0.97	0.21	51,51,51,51	0
57	MG	1A	3597	1/1	0.97	0.12	32,32,32,32	0
57	MG	1a	1660	1/1	0.97	0.07	48,48,48,48	0
57	MG	1A	3464	1/1	0.97	0.13	33,33,33,33	0
57	MG	1A	3743	1/1	0.97	0.05	32,32,32,32	0
57	MG	1A	3146	1/1	0.97	0.13	24,24,24,24	0
57	MG	1A	3467	1/1	0.97	0.07	48,48,48,48	0
57	MG	1A	3908	1/1	0.97	0.05	33,33,33,33	0
57	MG	1a	1666	1/1	0.97	0.07	50,50,50,50	0
57	MG	1A	3096	1/1	0.97	0.05	39,39,39,39	0
57	MG	1A	3225	1/1	0.97	0.12	22,22,22,22	0
57	MG	1A	3749	1/1	0.97	0.06	53,53,53,53	0
57	MG	2a	1680	1/1	0.97	0.07	44,44,44,44	0
57	MG	1A	3228	1/1	0.97	0.07	42,42,42,42	0
57	MG	1A	4114	1/1	0.97	0.05	13,13,13,13	0
57	MG	1A	3751	1/1	0.97	0.07	24,24,24,24	0
57	MG	1A	3304	1/1	0.97	0.19	44,44,44,44	0
57	MG	1A	3071	1/1	0.97	0.05	13,13,13,13	0
57	MG	1A	3921	1/1	0.97	0.17	31,31,31,31	0
57	MG	1A	4119	1/1	0.97	0.07	44,44,44,44	0
57	MG	2A	3700	1/1	0.97	0.13	56,56,56,56	0
57	MG	2A	3382	1/1	0.97	0.16	43,43,43,43	0
57	MG	1A	4120	1/1	0.97	0.08	37,37,37,37	0
57	MG	1A	3473	1/1	0.97	0.06	43,43,43,43	0
57	MG	1A	3073	1/1	0.97	0.04	24,24,24,24	0
57	MG	1A	3387	1/1	0.97	0.14	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1681	1/1	0.97	0.14	45,45,45,45	0
57	MG	2A	3707	1/1	0.97	0.08	68,68,68,68	0
57	MG	1B	202	1/1	0.97	0.10	42,42,42,42	0
57	MG	1A	3757	1/1	0.97	0.06	36,36,36,36	0
57	MG	1A	3476	1/1	0.97	0.06	45,45,45,45	0
57	MG	2A	3104	1/1	0.97	0.19	45,45,45,45	0
57	MG	2A	3713	1/1	0.97	0.08	27,27,27,27	0
57	MG	1B	205	1/1	0.97	0.05	47,47,47,47	0
57	MG	2A	3715	1/1	0.97	0.06	43,43,43,43	0
57	MG	1A	3477	1/1	0.97	0.04	30,30,30,30	0
57	MG	1A	3760	1/1	0.97	0.04	35,35,35,35	0
57	MG	1B	208	1/1	0.97	0.09	45,45,45,45	0
57	MG	1A	3388	1/1	0.97	0.07	23,23,23,23	0
57	MG	2a	1709	1/1	0.97	0.17	53,53,53,53	0
57	MG	2A	3720	1/1	0.97	0.04	45,45,45,45	0
57	MG	1A	3479	1/1	0.97	0.12	36,36,36,36	0
57	MG	2A	3399	1/1	0.97	0.08	40,40,40,40	0
57	MG	1A	3480	1/1	0.97	0.12	44,44,44,44	0
57	MG	1A	3231	1/1	0.97	0.10	55,55,55,55	0
57	MG	1B	214	1/1	0.97	0.09	36,36,36,36	0
57	MG	2A	3727	1/1	0.97	0.08	49,49,49,49	0
57	MG	1A	3938	1/1	0.97	0.08	54,54,54,54	0
57	MG	2A	3729	1/1	0.97	0.05	39,39,39,39	0
57	MG	1A	3039	1/1	0.97	0.21	33,33,33,33	0
57	MG	1A	3616	1/1	0.97	0.08	20,20,20,20	0
57	MG	1A	3483	1/1	0.97	0.13	50,50,50,50	0
57	MG	2A	3121	1/1	0.97	0.08	41,41,41,41	0
57	MG	1A	3484	1/1	0.97	0.06	40,40,40,40	0
57	MG	2A	3123	1/1	0.97	0.06	33,33,33,33	0
57	MG	1A	3772	1/1	0.97	0.07	26,26,26,26	0
57	MG	1B	221	1/1	0.97	0.09	49,49,49,49	0
57	MG	2A	3126	1/1	0.97	0.05	53,53,53,53	0
57	MG	1A	3391	1/1	0.97	0.14	32,32,32,32	0
57	MG	1A	3620	1/1	0.97	0.09	34,34,34,34	0
57	MG	2A	3129	1/1	0.97	0.06	51,51,51,51	0
57	MG	2A	3130	1/1	0.97	0.06	41,41,41,41	0
57	MG	1A	3019	1/1	0.97	0.17	35,35,35,35	0
57	MG	1A	3488	1/1	0.97	0.06	34,34,34,34	0
57	MG	1A	3954	1/1	0.97	0.06	55,55,55,55	0
57	MG	1A	3778	1/1	0.97	0.05	23,23,23,23	0
57	MG	2A	3135	1/1	0.97	0.14	43,43,43,43	0
57	MG	1B	229	1/1	0.97	0.05	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2a	1739	1/1	0.97	0.10	62,62,62,62	0
57	MG	1A	3489	1/1	0.97	0.09	32,32,32,32	0
57	MG	1A	3236	1/1	0.97	0.07	35,35,35,35	0
57	MG	2a	1742	1/1	0.97	0.07	68,68,68,68	0
57	MG	1A	3394	1/1	0.97	0.19	48,48,48,48	0
57	MG	1A	3312	1/1	0.97	0.10	35,35,35,35	0
57	MG	1B	234	1/1	0.97	0.09	31,31,31,31	0
57	MG	2A	3144	1/1	0.97	0.13	40,40,40,40	0
57	MG	1A	3961	1/1	0.97	0.05	39,39,39,39	0
57	MG	1A	3105	1/1	0.97	0.18	30,30,30,30	0
57	MG	1a	1717	1/1	0.97	0.13	49,49,49,49	0
57	MG	1D	307	1/1	0.97	0.07	52,52,52,52	0
57	MG	1A	3106	1/1	0.97	0.10	25,25,25,25	0
57	MG	2A	3763	1/1	0.97	0.08	54,54,54,54	0
57	MG	2a	1754	1/1	0.97	0.06	64,64,64,64	0
57	MG	2A	3151	1/1	0.97	0.06	41,41,41,41	0
57	MG	1A	3633	1/1	0.97	0.08	51,51,51,51	0
57	MG	1A	3495	1/1	0.97	0.07	26,26,26,26	0
57	MG	2a	1759	1/1	0.97	0.06	60,60,60,60	0
57	MG	2A	3155	1/1	0.97	0.07	51,51,51,51	0
57	MG	1A	3398	1/1	0.97	0.11	27,27,27,27	0
57	MG	1E	302	1/1	0.97	0.12	38,38,38,38	0
57	MG	1a	1724	1/1	0.97	0.11	37,37,37,37	0
57	MG	1E	303	1/1	0.97	0.15	33,33,33,33	0
57	MG	1A	3166	1/1	0.97	0.09	41,41,41,41	0
57	MG	2a	1766	1/1	0.97	0.08	43,43,43,43	0
57	MG	2A	3163	1/1	0.97	0.10	42,42,42,42	0
57	MG	1A	3401	1/1	0.97	0.12	45,45,45,45	0
57	MG	1A	3241	1/1	0.97	0.05	39,39,39,39	0
57	MG	1a	1732	1/1	0.97	0.15	58,58,58,58	0
57	MG	1A	3639	1/1	0.97	0.04	20,20,20,20	0
57	MG	2a	1773	1/1	0.97	0.10	55,55,55,55	0
57	MG	2A	3168	1/1	0.97	0.08	38,38,38,38	0
57	MG	1A	3640	1/1	0.97	0.04	25,25,25,25	0
57	MG	2A	3452	1/1	0.97	0.20	47,47,47,47	0
57	MG	2A	3171	1/1	0.97	0.09	46,46,46,46	0
57	MG	2A	3789	1/1	0.97	0.06	53,53,53,53	0
57	MG	1E	313	1/1	0.97	0.05	30,30,30,30	0
57	MG	2a	1781	1/1	0.97	0.16	56,56,56,56	0
57	MG	2A	3173	1/1	0.97	0.08	55,55,55,55	0
57	MG	1A	3107	1/1	0.97	0.05	32,32,32,32	0
57	MG	1F	303	1/1	0.97	0.05	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3318	1/1	0.97	0.06	46,46,46,46	0
57	MG	2a	1786	1/1	0.97	0.11	47,47,47,47	0
57	MG	1a	1739	1/1	0.97	0.05	39,39,39,39	0
57	MG	1a	1740	1/1	0.97	0.11	48,48,48,48	0
57	MG	1F	305	1/1	0.97	0.15	25,25,25,25	0
57	MG	2A	3181	1/1	0.97	0.11	63,63,63,63	0
57	MG	1A	3800	1/1	0.97	0.07	41,41,41,41	0
57	MG	2A	3801	1/1	0.97	0.08	56,56,56,56	0
57	MG	1A	3076	1/1	0.97	0.08	34,34,34,34	0
57	MG	1A	3979	1/1	0.97	0.05	47,47,47,47	0
57	MG	2A	3185	1/1	0.97	0.12	35,35,35,35	0
57	MG	1A	3980	1/1	0.97	0.08	27,27,27,27	0
57	MG	1A	3109	1/1	0.97	0.04	30,30,30,30	0
57	MG	1A	3057	1/1	0.97	0.14	40,40,40,40	0
57	MG	2A	3471	1/1	0.97	0.07	49,49,49,49	0
57	MG	1A	3509	1/1	0.97	0.05	43,43,43,43	0
57	MG	1A	3325	1/1	0.97	0.05	28,28,28,28	0
57	MG	1A	3041	1/1	0.97	0.07	35,35,35,35	0
57	MG	1N	204	1/1	0.97	0.12	39,39,39,39	0
57	MG	1N	205	1/1	0.97	0.07	43,43,43,43	0
57	MG	1A	3986	1/1	0.97	0.07	45,45,45,45	0
57	MG	2A	3478	1/1	0.97	0.11	61,61,61,61	0
57	MG	1a	1756	1/1	0.97	0.07	45,45,45,45	0
57	MG	2A	3196	1/1	0.97	0.08	53,53,53,53	0
57	MG	1a	1757	1/1	0.97	0.05	44,44,44,44	0
57	MG	2A	3198	1/1	0.97	0.17	60,60,60,60	0
57	MG	1A	3987	1/1	0.97	0.09	50,50,50,50	0
57	MG	2A	3486	1/1	0.97	0.07	53,53,53,53	0
57	MG	2A	3487	1/1	0.97	0.15	43,43,43,43	0
57	MG	2A	3488	1/1	0.97	0.08	37,37,37,37	0
57	MG	1A	3178	1/1	0.97	0.18	32,32,32,32	0
57	MG	1a	1762	1/1	0.97	0.04	46,46,46,46	0
57	MG	1A	3989	1/1	0.97	0.05	61,61,61,61	0
57	MG	1P	201	1/1	0.97	0.10	26,26,26,26	0
57	MG	1A	3249	1/1	0.97	0.04	47,47,47,47	0
57	MG	1Q	201	1/1	0.97	0.15	28,28,28,28	0
57	MG	2A	3832	1/1	0.97	0.08	46,46,46,46	0
57	MG	1A	3811	1/1	0.97	0.04	25,25,25,25	0
57	MG	2A	3497	1/1	0.97	0.07	62,62,62,62	0
57	MG	1A	3653	1/1	0.97	0.06	33,33,33,33	0
57	MG	2A	3500	1/1	0.97	0.08	53,53,53,53	0
57	MG	2A	3837	1/1	0.97	0.11	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3329	1/1	0.97	0.07	43,43,43,43	0
57	MG	1A	3517	1/1	0.97	0.14	31,31,31,31	0
57	MG	1A	3995	1/1	0.97	0.04	35,35,35,35	0
57	MG	1R	202	1/1	0.97	0.11	31,31,31,31	0
57	MG	1A	3658	1/1	0.97	0.10	50,50,50,50	0
57	MG	1A	3020	1/1	0.97	0.05	37,37,37,37	0
57	MG	2A	3846	1/1	0.97	0.06	40,40,40,40	0
57	MG	1A	3331	1/1	0.97	0.10	46,46,46,46	0
57	MG	1A	3663	1/1	0.97	0.08	39,39,39,39	0
57	MG	2A	3851	1/1	0.97	0.06	59,59,59,59	0
57	MG	1A	3113	1/1	0.97	0.17	25,25,25,25	0
57	MG	1A	3419	1/1	0.97	0.05	40,40,40,40	0
57	MG	1A	3115	1/1	0.97	0.07	46,46,46,46	0
57	MG	1T	203	1/1	0.97	0.06	39,39,39,39	0
57	MG	1A	3826	1/1	0.97	0.05	39,39,39,39	0
57	MG	1A	3254	1/1	0.97	0.06	27,27,27,27	0
57	MG	2A	3858	1/1	0.97	0.06	33,33,33,33	0
57	MG	2A	3860	1/1	0.97	0.08	60,60,60,60	0
57	MG	1A	3182	1/1	0.97	0.04	38,38,38,38	0
57	MG	1U	204	1/1	0.97	0.14	27,27,27,27	0
57	MG	1U	205	1/1	0.97	0.07	30,30,30,30	0
57	MG	1A	3829	1/1	0.97	0.07	21,21,21,21	0
57	MG	1a	1789	1/1	0.97	0.09	48,48,48,48	0
57	MG	2q	203	1/1	0.97	0.07	70,70,70,70	0
57	MG	1a	1790	1/1	0.97	0.06	44,44,44,44	0
57	MG	1V	201	1/1	0.97	0.07	19,19,19,19	0
57	MG	1A	3423	1/1	0.97	0.08	42,42,42,42	0
57	MG	1A	3183	1/1	0.97	0.17	40,40,40,40	0
57	MG	1A	3426	1/1	0.97	0.13	39,39,39,39	0
57	MG	2v	104	1/1	0.97	0.12	47,47,47,47	0
57	MG	2A	3232	1/1	0.97	0.15	53,53,53,53	0
57	MG	1a	1795	1/1	0.97	0.08	47,47,47,47	0
57	MG	1A	3062	1/1	0.97	0.05	44,44,44,44	0
57	MG	1a	1799	1/1	0.97	0.05	57,57,57,57	0
57	MG	1A	3531	1/1	0.97	0.17	31,31,31,31	0
57	MG	2A	3237	1/1	0.97	0.21	39,39,39,39	0
57	MG	2w	107	1/1	0.97	0.13	55,55,55,55	0
57	MG	2w	108	1/1	0.97	0.12	47,47,47,47	0
57	MG	1W	203	1/1	0.97	0.06	39,39,39,39	0
57	MG	2A	3537	1/1	0.97	0.05	30,30,30,30	0
57	MG	1W	205	1/1	0.97	0.07	36,36,36,36	0
57	MG	1a	1808	1/1	0.97	0.05	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3540	1/1	0.97	0.09	43,43,43,43	0
57	MG	1X	101	1/1	0.97	0.11	51,51,51,51	0
57	MG	1X	102	1/1	0.97	0.10	34,34,34,34	0
57	MG	1X	103	1/1	0.97	0.06	36,36,36,36	0
57	MG	1X	104	1/1	0.97	0.10	44,44,44,44	0
57	MG	2A	3545	1/1	0.97	0.05	39,39,39,39	0
57	MG	1X	105	1/1	0.97	0.18	35,35,35,35	0
57	MG	1A	4015	1/1	0.97	0.07	52,52,52,52	0
58	K	1A	3565	1/1	0.97	0.07	31,31,31,31	0
58	K	2A	3479	1/1	0.97	0.08	52,52,52,52	0
59	ZN	2Y	501	1/1	0.97	0.05	99,99,99,99	0
57	MG	1A	3532	1/1	0.97	0.12	36,36,36,36	0
59	ZN	2n	501	1/1	0.97	0.05	73,73,73,73	0
57	MG	1A	3659	1/1	0.98	0.11	28,28,28,28	0
57	MG	1A	3791	1/1	0.98	0.08	19,19,19,19	0
57	MG	25	104	1/1	0.98	0.04	35,35,35,35	0
57	MG	1A	4096	1/1	0.98	0.04	48,48,48,48	0
57	MG	1A	3201	1/1	0.98	0.08	20,20,20,20	0
57	MG	1A	3080	1/1	0.98	0.12	32,32,32,32	0
57	MG	1a	1800	1/1	0.98	0.05	59,59,59,59	0
57	MG	1a	1801	1/1	0.98	0.04	48,48,48,48	0
57	MG	2A	3421	1/1	0.98	0.13	47,47,47,47	0
57	MG	15	106	1/1	0.98	0.10	38,38,38,38	0
57	MG	1A	3270	1/1	0.98	0.13	28,28,28,28	0
57	MG	1A	3795	1/1	0.98	0.04	46,46,46,46	0
57	MG	2A	3425	1/1	0.98	0.11	38,38,38,38	0
57	MG	1a	1805	1/1	0.98	0.04	40,40,40,40	0
57	MG	1a	1807	1/1	0.98	0.04	53,53,53,53	0
57	MG	1A	3271	1/1	0.98	0.04	41,41,41,41	0
57	MG	17	102	1/1	0.98	0.08	28,28,28,28	0
57	MG	1A	3030	1/1	0.98	0.12	26,26,26,26	0
57	MG	1a	1811	1/1	0.98	0.04	57,57,57,57	0
57	MG	17	104	1/1	0.98	0.07	32,32,32,32	0
57	MG	1a	1813	1/1	0.98	0.04	52,52,52,52	0
57	MG	17	105	1/1	0.98	0.05	46,46,46,46	0
57	MG	1A	3045	1/1	0.98	0.05	29,29,29,29	0
57	MG	18	102	1/1	0.98	0.07	41,41,41,41	0
57	MG	1A	4107	1/1	0.98	0.05	38,38,38,38	0
57	MG	1A	4108	1/1	0.98	0.04	33,33,33,33	0
57	MG	1A	4109	1/1	0.98	0.07	49,49,49,49	0
57	MG	1A	3945	1/1	0.98	0.05	59,59,59,59	0
57	MG	19	101	1/1	0.98	0.11	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3145	1/1	0.98	0.13	34,34,34,34	0
57	MG	1e	202	1/1	0.98	0.13	53,53,53,53	0
57	MG	1A	3948	1/1	0.98	0.04	64,64,64,64	0
57	MG	1f	202	1/1	0.98	0.15	49,49,49,49	0
57	MG	1A	3949	1/1	0.98	0.07	30,30,30,30	0
57	MG	1A	3275	1/1	0.98	0.15	20,20,20,20	0
57	MG	1A	3277	1/1	0.98	0.08	42,42,42,42	0
57	MG	1a	1606	1/1	0.98	0.04	43,43,43,43	0
57	MG	1A	3278	1/1	0.98	0.11	32,32,32,32	0
57	MG	2A	3711	1/1	0.98	0.12	44,44,44,44	0
57	MG	1A	3279	1/1	0.98	0.08	30,30,30,30	0
57	MG	1a	1609	1/1	0.98	0.06	21,21,21,21	0
57	MG	1A	3956	1/1	0.98	0.04	39,39,39,39	0
57	MG	1A	3207	1/1	0.98	0.08	30,30,30,30	0
57	MG	1A	3046	1/1	0.98	0.03	22,22,22,22	0
57	MG	1A	3807	1/1	0.98	0.04	37,37,37,37	0
57	MG	2a	1637	1/1	0.98	0.15	39,39,39,39	0
57	MG	1A	3147	1/1	0.98	0.06	34,34,34,34	0
57	MG	1a	1615	1/1	0.98	0.12	35,35,35,35	0
57	MG	1a	1616	1/1	0.98	0.05	37,37,37,37	0
57	MG	2A	3460	1/1	0.98	0.09	41,41,41,41	0
57	MG	1A	3284	1/1	0.98	0.05	48,48,48,48	0
57	MG	1A	3962	1/1	0.98	0.04	41,41,41,41	0
57	MG	1A	3677	1/1	0.98	0.07	23,23,23,23	0
57	MG	1A	3964	1/1	0.98	0.07	59,59,59,59	0
57	MG	2A	3726	1/1	0.98	0.07	31,31,31,31	0
57	MG	1A	3555	1/1	0.98	0.04	24,24,24,24	0
57	MG	1A	3812	1/1	0.98	0.05	19,19,19,19	0
57	MG	1A	3556	1/1	0.98	0.05	42,42,42,42	0
57	MG	1A	3814	1/1	0.98	0.06	25,25,25,25	0
57	MG	1A	3084	1/1	0.98	0.04	30,30,30,30	0
57	MG	1B	211	1/1	0.98	0.06	45,45,45,45	0
57	MG	1A	3681	1/1	0.98	0.06	28,28,28,28	0
57	MG	2A	3734	1/1	0.98	0.06	54,54,54,54	0
57	MG	1A	3366	1/1	0.98	0.09	26,26,26,26	0
57	MG	1a	1631	1/1	0.98	0.15	40,40,40,40	0
57	MG	1A	3818	1/1	0.98	0.04	32,32,32,32	0
57	MG	1A	3367	1/1	0.98	0.08	33,33,33,33	0
57	MG	1A	3286	1/1	0.98	0.05	31,31,31,31	0
57	MG	1A	3975	1/1	0.98	0.04	49,49,49,49	0
57	MG	1A	3213	1/1	0.98	0.05	38,38,38,38	0
57	MG	2A	3480	1/1	0.98	0.10	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3214	1/1	0.98	0.08	34,34,34,34	0
57	MG	1A	3215	1/1	0.98	0.04	31,31,31,31	0
57	MG	1A	3064	1/1	0.98	0.06	35,35,35,35	0
57	MG	2A	3746	1/1	0.98	0.09	38,38,38,38	0
57	MG	1A	3825	1/1	0.98	0.14	26,26,26,26	0
57	MG	1A	3373	1/1	0.98	0.11	43,43,43,43	0
57	MG	1A	3086	1/1	0.98	0.08	33,33,33,33	0
57	MG	2A	3750	1/1	0.98	0.07	54,54,54,54	0
57	MG	1A	3465	1/1	0.98	0.08	33,33,33,33	0
57	MG	1A	3375	1/1	0.98	0.07	33,33,33,33	0
57	MG	1A	3576	1/1	0.98	0.17	30,30,30,30	0
57	MG	2A	3249	1/1	0.98	0.07	49,49,49,49	0
57	MG	1A	3065	1/1	0.98	0.12	33,33,33,33	0
57	MG	2a	1677	1/1	0.98	0.11	51,51,51,51	0
57	MG	1A	3155	1/1	0.98	0.05	48,48,48,48	0
57	MG	1A	3156	1/1	0.98	0.10	28,28,28,28	0
57	MG	2A	3011	1/1	0.98	0.08	38,38,38,38	0
57	MG	1A	3157	1/1	0.98	0.07	22,22,22,22	0
57	MG	2A	3496	1/1	0.98	0.05	59,59,59,59	0
57	MG	1a	1651	1/1	0.98	0.07	42,42,42,42	0
57	MG	2A	3498	1/1	0.98	0.05	51,51,51,51	0
57	MG	2A	3014	1/1	0.98	0.05	41,41,41,41	0
57	MG	1A	3380	1/1	0.98	0.05	31,31,31,31	0
57	MG	1A	3296	1/1	0.98	0.12	29,29,29,29	0
57	MG	1A	3159	1/1	0.98	0.26	31,31,31,31	0
57	MG	1D	302	1/1	0.98	0.11	37,37,37,37	0
57	MG	2A	3019	1/1	0.98	0.04	46,46,46,46	0
57	MG	2A	3263	1/1	0.98	0.07	49,49,49,49	0
57	MG	2A	3020	1/1	0.98	0.03	28,28,28,28	0
57	MG	2A	3771	1/1	0.98	0.04	33,33,33,33	0
57	MG	1D	303	1/1	0.98	0.08	18,18,18,18	0
57	MG	1A	3047	1/1	0.98	0.04	24,24,24,24	0
57	MG	2A	3774	1/1	0.98	0.09	48,48,48,48	0
57	MG	2a	1697	1/1	0.98	0.10	47,47,47,47	0
57	MG	2A	3267	1/1	0.98	0.05	48,48,48,48	0
57	MG	1D	306	1/1	0.98	0.12	39,39,39,39	0
57	MG	1A	3116	1/1	0.98	0.05	34,34,34,34	0
57	MG	2a	1701	1/1	0.98	0.15	31,31,31,31	0
57	MG	2A	3513	1/1	0.98	0.07	43,43,43,43	0
57	MG	1A	3300	1/1	0.98	0.22	38,38,38,38	0
57	MG	1A	3707	1/1	0.98	0.05	19,19,19,19	0
57	MG	1A	3386	1/1	0.98	0.14	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3783	1/1	0.98	0.07	41,41,41,41	0
57	MG	2A	3029	1/1	0.98	0.11	40,40,40,40	0
57	MG	1A	3227	1/1	0.98	0.11	26,26,26,26	0
57	MG	1E	301	1/1	0.98	0.16	29,29,29,29	0
57	MG	1A	3033	1/1	0.98	0.13	26,26,26,26	0
57	MG	1A	3163	1/1	0.98	0.16	28,28,28,28	0
57	MG	2A	3522	1/1	0.98	0.06	35,35,35,35	0
57	MG	2A	3034	1/1	0.98	0.06	40,40,40,40	0
57	MG	1E	304	1/1	0.98	0.13	26,26,26,26	0
57	MG	1A	3165	1/1	0.98	0.11	29,29,29,29	0
57	MG	1A	3011	1/1	0.98	0.07	33,33,33,33	0
57	MG	2A	3797	1/1	0.98	0.04	58,58,58,58	0
57	MG	1A	3307	1/1	0.98	0.05	26,26,26,26	0
57	MG	1E	309	1/1	0.98	0.07	24,24,24,24	0
57	MG	2A	3529	1/1	0.98	0.03	27,27,27,27	0
57	MG	1A	3167	1/1	0.98	0.03	14,14,14,14	0
57	MG	1E	311	1/1	0.98	0.09	34,34,34,34	0
57	MG	2A	3803	1/1	0.98	0.08	60,60,60,60	0
57	MG	2A	3532	1/1	0.98	0.10	39,39,39,39	0
57	MG	1A	4006	1/1	0.98	0.04	22,22,22,22	0
57	MG	1A	3595	1/1	0.98	0.08	26,26,26,26	0
57	MG	1A	3718	1/1	0.98	0.06	42,42,42,42	0
57	MG	1A	3596	1/1	0.98	0.08	28,28,28,28	0
57	MG	1A	3485	1/1	0.98	0.04	41,41,41,41	0
57	MG	1A	3051	1/1	0.98	0.04	19,19,19,19	0
57	MG	2A	3292	1/1	0.98	0.05	41,41,41,41	0
57	MG	2A	3812	1/1	0.98	0.09	41,41,41,41	0
57	MG	1a	1682	1/1	0.98	0.14	43,43,43,43	0
57	MG	1A	3235	1/1	0.98	0.05	39,39,39,39	0
57	MG	1F	308	1/1	0.98	0.04	41,41,41,41	0
57	MG	2a	1736	1/1	0.98	0.05	64,64,64,64	0
57	MG	1A	3858	1/1	0.98	0.08	32,32,32,32	0
57	MG	1F	310	1/1	0.98	0.07	44,44,44,44	0
57	MG	1A	4014	1/1	0.98	0.05	29,29,29,29	0
57	MG	2A	3055	1/1	0.98	0.05	46,46,46,46	0
57	MG	1G	201	1/1	0.98	0.08	35,35,35,35	0
57	MG	1A	3052	1/1	0.98	0.06	21,21,21,21	0
57	MG	1A	3025	1/1	0.98	0.04	38,38,38,38	0
57	MG	1A	3008	1/1	0.98	0.06	25,25,25,25	0
57	MG	2A	3304	1/1	0.98	0.10	48,48,48,48	0
57	MG	1A	3399	1/1	0.98	0.07	34,34,34,34	0
57	MG	2a	1747	1/1	0.98	0.05	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3173	1/1	0.98	0.10	35,35,35,35	0
57	MG	1a	1694	1/1	0.98	0.12	33,33,33,33	0
57	MG	1A	3176	1/1	0.98	0.02	13,13,13,13	0
57	MG	1N	202	1/1	0.98	0.05	41,41,41,41	0
57	MG	1N	203	1/1	0.98	0.04	33,33,33,33	0
57	MG	1A	3018	1/1	0.98	0.07	23,23,23,23	0
57	MG	1A	3243	1/1	0.98	0.05	47,47,47,47	0
57	MG	1A	4023	1/1	0.98	0.05	19,19,19,19	0
57	MG	1A	3496	1/1	0.98	0.10	26,26,26,26	0
57	MG	2A	3562	1/1	0.98	0.06	34,34,34,34	0
57	MG	1A	3023	1/1	0.98	0.06	12,12,12,12	0
57	MG	1A	3319	1/1	0.98	0.09	27,27,27,27	0
57	MG	1A	3042	1/1	0.98	0.11	26,26,26,26	0
57	MG	2A	3076	1/1	0.98	0.10	39,39,39,39	0
57	MG	1P	202	1/1	0.98	0.04	31,31,31,31	0
57	MG	1P	203	1/1	0.98	0.20	34,34,34,34	0
57	MG	2A	3843	1/1	0.98	0.04	48,48,48,48	0
57	MG	1A	3407	1/1	0.98	0.07	40,40,40,40	0
57	MG	1A	4029	1/1	0.98	0.05	45,45,45,45	0
57	MG	1Q	202	1/1	0.98	0.05	31,31,31,31	0
57	MG	2A	3083	1/1	0.98	0.06	44,44,44,44	0
57	MG	2a	1770	1/1	0.98	0.04	72,72,72,72	0
57	MG	2A	3573	1/1	0.98	0.06	41,41,41,41	0
57	MG	2A	3850	1/1	0.98	0.04	54,54,54,54	0
57	MG	1Q	203	1/1	0.98	0.05	40,40,40,40	0
57	MG	2a	1774	1/1	0.98	0.12	62,62,62,62	0
57	MG	1A	3322	1/1	0.98	0.05	41,41,41,41	0
57	MG	1A	3127	1/1	0.98	0.07	33,33,33,33	0
57	MG	1A	3739	1/1	0.98	0.04	28,28,28,28	0
57	MG	1A	3503	1/1	0.98	0.04	43,43,43,43	0
57	MG	1A	3504	1/1	0.98	0.07	41,41,41,41	0
57	MG	1A	3128	1/1	0.98	0.05	27,27,27,27	0
57	MG	1A	3129	1/1	0.98	0.12	30,30,30,30	0
57	MG	2A	3092	1/1	0.98	0.04	31,31,31,31	0
57	MG	1A	3744	1/1	0.98	0.08	52,52,52,52	0
57	MG	1A	3130	1/1	0.98	0.10	39,39,39,39	0
57	MG	1A	3508	1/1	0.98	0.05	45,45,45,45	0
57	MG	1A	3184	1/1	0.98	0.19	28,28,28,28	0
57	MG	1A	3251	1/1	0.98	0.06	28,28,28,28	0
57	MG	1A	4043	1/1	0.98	0.06	54,54,54,54	0
57	MG	2A	3867	1/1	0.98	0.04	24,24,24,24	0
57	MG	2A	3099	1/1	0.98	0.05	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3885	1/1	0.98	0.06	31,31,31,31	0
57	MG	1A	3416	1/1	0.98	0.09	39,39,39,39	0
57	MG	1U	201	1/1	0.98	0.09	28,28,28,28	0
57	MG	2A	3103	1/1	0.98	0.05	26,26,26,26	0
57	MG	1A	3512	1/1	0.98	0.09	28,28,28,28	0
57	MG	1a	1729	1/1	0.98	0.12	44,44,44,44	0
57	MG	2A	3875	1/1	0.98	0.09	26,26,26,26	0
57	MG	1A	3626	1/1	0.98	0.08	34,34,34,34	0
57	MG	1a	1731	1/1	0.98	0.12	63,63,63,63	0
57	MG	1A	3627	1/1	0.98	0.13	33,33,33,33	0
57	MG	1A	3131	1/1	0.98	0.05	34,34,34,34	0
57	MG	2A	3880	1/1	0.98	0.10	44,44,44,44	0
57	MG	1U	206	1/1	0.98	0.06	32,32,32,32	0
57	MG	2A	3883	1/1	0.98	0.05	38,38,38,38	0
57	MG	1A	3100	1/1	0.98	0.14	36,36,36,36	0
57	MG	2A	3885	1/1	0.98	0.05	49,49,49,49	0
57	MG	1U	209	1/1	0.98	0.12	33,33,33,33	0
57	MG	2A	3887	1/1	0.98	0.09	44,44,44,44	0
57	MG	1A	3630	1/1	0.98	0.05	24,24,24,24	0
57	MG	1V	202	1/1	0.98	0.05	32,32,32,32	0
57	MG	1V	203	1/1	0.98	0.07	26,26,26,26	0
57	MG	2A	3609	1/1	0.98	0.13	47,47,47,47	0
57	MG	1A	3515	1/1	0.98	0.13	31,31,31,31	0
57	MG	1V	205	1/1	0.98	0.06	26,26,26,26	0
57	MG	2A	3120	1/1	0.98	0.10	34,34,34,34	0
57	MG	1A	3133	1/1	0.98	0.09	25,25,25,25	0
57	MG	1A	3188	1/1	0.98	0.14	34,34,34,34	0
57	MG	1V	208	1/1	0.98	0.11	33,33,33,33	0
57	MG	2B	207	1/1	0.98	0.07	53,53,53,53	0
57	MG	1A	3256	1/1	0.98	0.06	49,49,49,49	0
57	MG	1W	201	1/1	0.98	0.13	34,34,34,34	0
57	MG	1a	1747	1/1	0.98	0.04	37,37,37,37	0
57	MG	1A	3898	1/1	0.98	0.04	36,36,36,36	0
57	MG	1A	4059	1/1	0.98	0.03	24,24,24,24	0
57	MG	2A	3621	1/1	0.98	0.07	34,34,34,34	0
57	MG	1W	204	1/1	0.98	0.13	39,39,39,39	0
57	MG	1A	3134	1/1	0.98	0.15	38,38,38,38	0
57	MG	1W	206	1/1	0.98	0.07	29,29,29,29	0
57	MG	1A	3761	1/1	0.98	0.04	42,42,42,42	0
57	MG	1A	3190	1/1	0.98	0.22	34,34,34,34	0
57	MG	1A	3191	1/1	0.98	0.14	24,24,24,24	0
57	MG	1A	3425	1/1	0.98	0.05	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3192	1/1	0.98	0.17	35,35,35,35	0
57	MG	2D	302	1/1	0.98	0.07	35,35,35,35	0
57	MG	2D	303	1/1	0.98	0.09	46,46,46,46	0
57	MG	2a	1836	1/1	0.98	0.06	54,54,54,54	0
57	MG	1a	1759	1/1	0.98	0.11	55,55,55,55	0
57	MG	2D	306	1/1	0.98	0.25	40,40,40,40	0
57	MG	1X	106	1/1	0.98	0.04	44,44,44,44	0
57	MG	1a	1761	1/1	0.98	0.07	50,50,50,50	0
57	MG	1A	3135	1/1	0.98	0.05	38,38,38,38	0
57	MG	2f	201	1/1	0.98	0.12	38,38,38,38	0
57	MG	1A	3043	1/1	0.98	0.09	27,27,27,27	0
57	MG	2A	3381	1/1	0.98	0.06	45,45,45,45	0
57	MG	1A	3340	1/1	0.98	0.05	52,52,52,52	0
57	MG	1A	3643	1/1	0.98	0.05	31,31,31,31	0
57	MG	1A	3910	1/1	0.98	0.05	46,46,46,46	0
57	MG	1A	3102	1/1	0.98	0.05	37,37,37,37	0
57	MG	1A	3773	1/1	0.98	0.04	29,29,29,29	0
57	MG	1A	3528	1/1	0.98	0.04	40,40,40,40	0
57	MG	1A	4075	1/1	0.98	0.04	52,52,52,52	0
57	MG	1A	3915	1/1	0.98	0.04	39,39,39,39	0
57	MG	2A	3390	1/1	0.98	0.07	39,39,39,39	0
57	MG	2A	3647	1/1	0.98	0.08	57,57,57,57	0
57	MG	10	105	1/1	0.98	0.05	43,43,43,43	0
57	MG	2A	3154	1/1	0.98	0.06	39,39,39,39	0
57	MG	1A	3342	1/1	0.98	0.12	45,45,45,45	0
57	MG	1A	3530	1/1	0.98	0.05	37,37,37,37	0
57	MG	2Q	203	1/1	0.98	0.07	48,48,48,48	0
57	MG	1A	3919	1/1	0.98	0.05	36,36,36,36	0
57	MG	1A	3264	1/1	0.98	0.10	29,29,29,29	0
57	MG	2R	201	1/1	0.98	0.15	46,46,46,46	0
57	MG	1A	3138	1/1	0.98	0.04	13,13,13,13	0
57	MG	1A	3924	1/1	0.98	0.03	27,27,27,27	0
57	MG	2T	202	1/1	0.98	0.20	52,52,52,52	0
57	MG	2A	3656	1/1	0.98	0.13	48,48,48,48	0
57	MG	2U	201	1/1	0.98	0.07	54,54,54,54	0
57	MG	2A	3162	1/1	0.98	0.08	35,35,35,35	0
57	MG	1a	1780	1/1	0.98	0.04	66,66,66,66	0
57	MG	1A	3078	1/1	0.98	0.14	30,30,30,30	0
57	MG	1A	3534	1/1	0.98	0.12	34,34,34,34	0
57	MG	1A	3435	1/1	0.98	0.07	43,43,43,43	0
57	MG	1A	3928	1/1	0.98	0.12	29,29,29,29	0
57	MG	1A	3654	1/1	0.98	0.04	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3169	1/1	0.98	0.12	42,42,42,42	0
57	MG	1A	3930	1/1	0.98	0.06	39,39,39,39	0
57	MG	1A	3346	1/1	0.98	0.15	35,35,35,35	0
57	MG	13	102	1/1	0.98	0.04	31,31,31,31	0
57	MG	1A	3656	1/1	0.98	0.05	28,28,28,28	0
57	MG	1A	3787	1/1	0.98	0.04	23,23,23,23	0
59	ZN	1Y	204	1/1	0.98	0.07	70,70,70,70	0
59	ZN	14	102	1/1	0.98	0.08	94,94,94,94	0
57	MG	2A	3670	1/1	0.98	0.04	33,33,33,33	0
57	MG	1A	3347	1/1	0.98	0.06	30,30,30,30	0
57	MG	1A	3060	1/1	0.98	0.22	50,50,50,50	0
60	SF4	2d	303	8/8	0.98	0.05	64,67,77,77	0
57	MG	2A	3112	1/1	0.99	0.09	36,36,36,36	0
57	MG	2A	3848	1/1	0.99	0.03	47,47,47,47	0
57	MG	2A	3591	1/1	0.99	0.05	33,33,33,33	0
57	MG	1A	3783	1/1	0.99	0.07	35,35,35,35	0
57	MG	2A	3114	1/1	0.99	0.11	57,57,57,57	0
57	MG	1A	3164	1/1	0.99	0.07	27,27,27,27	0
57	MG	1A	3234	1/1	0.99	0.16	28,28,28,28	0
57	MG	1A	3094	1/1	0.99	0.12	20,20,20,20	0
57	MG	2a	1757	1/1	0.99	0.04	50,50,50,50	0
57	MG	1A	3276	1/1	0.99	0.04	29,29,29,29	0
57	MG	1A	3021	1/1	0.99	0.06	21,21,21,21	0
57	MG	1F	302	1/1	0.99	0.04	25,25,25,25	0
57	MG	2A	3600	1/1	0.99	0.13	51,51,51,51	0
57	MG	2A	3859	1/1	0.99	0.06	59,59,59,59	0
57	MG	1A	3662	1/1	0.99	0.03	49,49,49,49	0
57	MG	2A	3009	1/1	0.99	0.07	44,44,44,44	0
57	MG	1A	3321	1/1	0.99	0.06	35,35,35,35	0
57	MG	1A	3412	1/1	0.99	0.09	33,33,33,33	0
57	MG	1F	306	1/1	0.99	0.16	26,26,26,26	0
57	MG	1A	3554	1/1	0.99	0.12	27,27,27,27	0
57	MG	1a	1770	1/1	0.99	0.05	43,43,43,43	0
57	MG	1A	3198	1/1	0.99	0.04	39,39,39,39	0
57	MG	1A	3238	1/1	0.99	0.07	28,28,28,28	0
57	MG	1A	4099	1/1	0.99	0.06	28,28,28,28	0
57	MG	1A	3557	1/1	0.99	0.11	32,32,32,32	0
57	MG	1A	3730	1/1	0.99	0.08	22,22,22,22	0
57	MG	1A	3558	1/1	0.99	0.10	20,20,20,20	0
57	MG	2a	1638	1/1	0.99	0.16	49,49,49,49	0
57	MG	2A	3021	1/1	0.99	0.05	40,40,40,40	0
57	MG	1A	4103	1/1	0.99	0.04	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	4104	1/1	0.99	0.06	33,33,33,33	0
57	MG	1A	3280	1/1	0.99	0.22	28,28,28,28	0
57	MG	1A	3561	1/1	0.99	0.11	31,31,31,31	0
57	MG	2A	3139	1/1	0.99	0.07	39,39,39,39	0
57	MG	1A	3199	1/1	0.99	0.04	28,28,28,28	0
57	MG	2A	3141	1/1	0.99	0.08	30,30,30,30	0
57	MG	2A	3881	1/1	0.99	0.04	50,50,50,50	0
57	MG	1A	3673	1/1	0.99	0.08	34,34,34,34	0
57	MG	1A	3031	1/1	0.99	0.05	24,24,24,24	0
57	MG	2A	3262	1/1	0.99	0.04	39,39,39,39	0
57	MG	1A	3946	1/1	0.99	0.04	12,12,12,12	0
57	MG	1A	3803	1/1	0.99	0.07	17,17,17,17	0
57	MG	1A	3097	1/1	0.99	0.03	33,33,33,33	0
57	MG	2A	3628	1/1	0.99	0.06	51,51,51,51	0
57	MG	1A	4113	1/1	0.99	0.05	25,25,25,25	0
57	MG	1A	3202	1/1	0.99	0.05	26,26,26,26	0
57	MG	2A	3149	1/1	0.99	0.08	26,26,26,26	0
57	MG	2A	3632	1/1	0.99	0.08	43,43,43,43	0
57	MG	1A	3950	1/1	0.99	0.04	30,30,30,30	0
57	MG	1A	3032	1/1	0.99	0.09	22,22,22,22	0
57	MG	1A	3568	1/1	0.99	0.07	26,26,26,26	0
57	MG	2A	3511	1/1	0.99	0.07	61,61,61,61	0
57	MG	1A	3142	1/1	0.99	0.09	19,19,19,19	0
57	MG	1A	3623	1/1	0.99	0.03	22,22,22,22	0
57	MG	1A	4034	1/1	0.99	0.05	19,19,19,19	0
57	MG	1A	3014	1/1	0.99	0.05	30,30,30,30	0
57	MG	1A	3571	1/1	0.99	0.14	31,31,31,31	0
57	MG	1a	1797	1/1	0.99	0.04	58,58,58,58	0
57	MG	2A	3159	1/1	0.99	0.08	55,55,55,55	0
57	MG	1a	1798	1/1	0.99	0.04	43,43,43,43	0
57	MG	1A	3172	1/1	0.99	0.10	19,19,19,19	0
57	MG	1A	3684	1/1	0.99	0.03	20,20,20,20	0
57	MG	1A	3034	1/1	0.99	0.19	28,28,28,28	0
57	MG	1A	3883	1/1	0.99	0.15	33,33,33,33	0
57	MG	1A	3686	1/1	0.99	0.02	35,35,35,35	0
57	MG	2A	3776	1/1	0.99	0.03	55,55,55,55	0
57	MG	2A	3049	1/1	0.99	0.12	21,21,21,21	0
57	MG	1A	3208	1/1	0.99	0.03	39,39,39,39	0
57	MG	1A	3209	1/1	0.99	0.06	27,27,27,27	0
57	MG	1a	1806	1/1	0.99	0.03	53,53,53,53	0
57	MG	1A	3174	1/1	0.99	0.03	28,28,28,28	0
57	MG	2D	305	1/1	0.99	0.04	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3175	1/1	0.99	0.03	28,28,28,28	0
57	MG	1A	3691	1/1	0.99	0.06	21,21,21,21	0
57	MG	1A	4047	1/1	0.99	0.06	37,37,37,37	0
57	MG	2A	3785	1/1	0.99	0.04	40,40,40,40	0
57	MG	2A	3786	1/1	0.99	0.02	42,42,42,42	0
57	MG	2A	3787	1/1	0.99	0.03	31,31,31,31	0
57	MG	1A	3122	1/1	0.99	0.08	34,34,34,34	0
57	MG	1A	3049	1/1	0.99	0.03	19,19,19,19	0
57	MG	1A	3007	1/1	0.99	0.09	35,35,35,35	0
57	MG	1A	3148	1/1	0.99	0.14	32,32,32,32	0
57	MG	2A	3178	1/1	0.99	0.07	37,37,37,37	0
57	MG	2A	3061	1/1	0.99	0.03	40,40,40,40	0
57	MG	1A	3894	1/1	0.99	0.05	34,34,34,34	0
57	MG	1a	1816	1/1	0.99	0.04	38,38,38,38	0
57	MG	1A	3005	1/1	0.99	0.08	37,37,37,37	0
57	MG	1A	3104	1/1	0.99	0.10	42,42,42,42	0
57	MG	1a	1618	1/1	0.99	0.08	37,37,37,37	0
57	MG	1a	1619	1/1	0.99	0.04	47,47,47,47	0
57	MG	1A	4055	1/1	0.99	0.03	44,44,44,44	0
57	MG	2A	3069	1/1	0.99	0.03	29,29,29,29	0
57	MG	1A	3151	1/1	0.99	0.09	34,34,34,34	0
57	MG	1A	3037	1/1	0.99	0.07	20,20,20,20	0
57	MG	2A	3674	1/1	0.99	0.15	40,40,40,40	0
57	MG	1A	3762	1/1	0.99	0.04	19,19,19,19	0
57	MG	1B	223	1/1	0.99	0.06	37,37,37,37	0
57	MG	1A	3302	1/1	0.99	0.13	27,27,27,27	0
57	MG	2A	3075	1/1	0.99	0.05	39,39,39,39	0
57	MG	1A	3153	1/1	0.99	0.07	29,29,29,29	0
57	MG	1A	3439	1/1	0.99	0.18	43,43,43,43	0
57	MG	2A	3078	1/1	0.99	0.09	24,24,24,24	0
57	MG	1a	1725	1/1	0.99	0.09	37,37,37,37	0
57	MG	1A	4062	1/1	0.99	0.05	43,43,43,43	0
57	MG	1A	3348	1/1	0.99	0.07	23,23,23,23	0
57	MG	1A	3038	1/1	0.99	0.08	21,21,21,21	0
57	MG	1A	3009	1/1	0.99	0.02	22,22,22,22	0
57	MG	1a	1632	1/1	0.99	0.10	22,22,22,22	0
57	MG	1A	3223	1/1	0.99	0.05	42,42,42,42	0
57	MG	2X	103	1/1	0.99	0.10	40,40,40,40	0
57	MG	1A	3907	1/1	0.99	0.09	42,42,42,42	0
57	MG	1A	3837	1/1	0.99	0.10	32,32,32,32	0
57	MG	1A	3010	1/1	0.99	0.05	30,30,30,30	0
57	MG	1A	3072	1/1	0.99	0.04	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3840	1/1	0.99	0.07	44,44,44,44	0
57	MG	1A	3912	1/1	0.99	0.03	29,29,29,29	0
57	MG	1A	3649	1/1	0.99	0.02	14,14,14,14	0
57	MG	1D	305	1/1	0.99	0.10	32,32,32,32	0
57	MG	1A	3226	1/1	0.99	0.13	30,30,30,30	0
57	MG	1A	3711	1/1	0.99	0.02	17,17,17,17	0
57	MG	1A	3158	1/1	0.99	0.06	23,23,23,23	0
57	MG	1D	309	1/1	0.99	0.21	34,34,34,34	0
57	MG	1A	3917	1/1	0.99	0.07	42,42,42,42	0
57	MG	1A	3003	1/1	0.99	0.03	25,25,25,25	0
57	MG	1A	3997	1/1	0.99	0.04	53,53,53,53	0
57	MG	1A	3028	1/1	0.99	0.12	27,27,27,27	0
57	MG	1A	3058	1/1	0.99	0.04	23,23,23,23	0
57	MG	1A	3013	1/1	0.99	0.06	24,24,24,24	0
57	MG	1a	1652	1/1	0.99	0.13	39,39,39,39	0
57	MG	1a	1653	1/1	0.99	0.09	45,45,45,45	0
57	MG	1A	3922	1/1	0.99	0.06	29,29,29,29	0
57	MG	2A	3840	1/1	0.99	0.05	54,54,54,54	0
57	MG	1A	3923	1/1	0.99	0.02	20,20,20,20	0
57	MG	2A	3585	1/1	0.99	0.05	35,35,35,35	0
59	ZN	19	102	1/1	0.99	0.06	41,41,41,41	0
59	ZN	1n	102	1/1	0.99	0.04	56,56,56,56	0
57	MG	1E	306	1/1	0.99	0.06	24,24,24,24	0
57	MG	1a	1755	1/1	0.99	0.12	32,32,32,32	0
59	ZN	25	106	1/1	0.99	0.04	65,65,65,65	0
59	ZN	26	102	1/1	0.99	0.02	47,47,47,47	0
59	ZN	29	501	1/1	0.99	0.03	62,62,62,62	0
57	MG	1A	3114	1/1	0.99	0.02	26,26,26,26	0
60	SF4	1d	302	8/8	0.99	0.05	46,56,61,69	0
57	MG	1A	3782	1/1	0.99	0.06	30,30,30,30	0
57	MG	1A	3951	1/1	1.00	0.04	30,30,30,30	0
57	MG	1U	207	1/1	1.00	0.17	27,27,27,27	0
59	ZN	15	108	1/1	1.00	0.01	40,40,40,40	0
59	ZN	16	102	1/1	1.00	0.03	40,40,40,40	0
57	MG	1A	3012	1/1	1.00	0.01	20,20,20,20	0
57	MG	1A	3769	1/1	1.00	0.08	39,39,39,39	0
57	MG	1A	3560	1/1	1.00	0.04	39,39,39,39	0

6.5 Other polymers (i)

There are no such residues in this entry.