



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 03:57 PM UTC

PDB ID : 5J4C / pdb_00005j4c
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with cisplatin (soaked) and bound to mRNA and A-, P- and E-site tRNAs at 2.8Å resolution
Authors : Melnikov, S.V.; Soll, D.; Steitz, T.A.; Polikanov, Y.S.
Deposited on : 2016-03-31
Resolution : 2.80 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

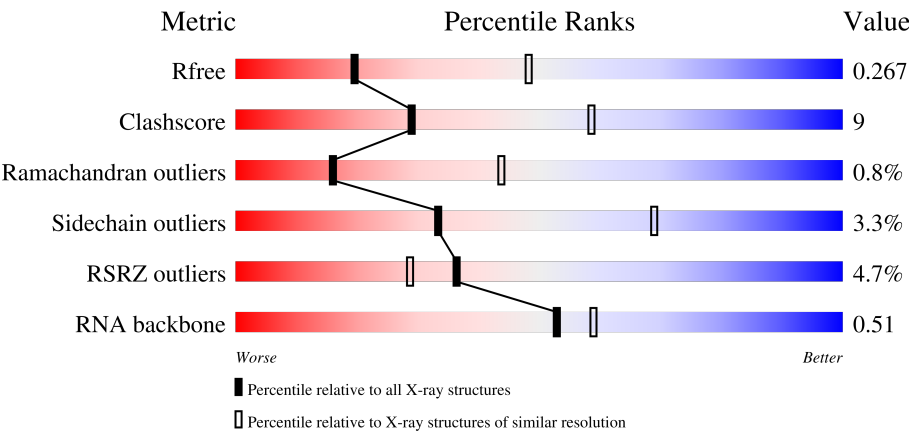
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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 2.80 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	3866 (2.80-2.80)
Clashscore	190562	4276 (2.80-2.80)
Ramachandran outliers	187476	4196 (2.80-2.80)
Sidechain outliers	187428	4198 (2.80-2.80)
RSRZ outliers	180081	3869 (2.80-2.80)
RNA backbone	3983	1114 (3.00-2.60)

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

Mol	Chain	Length	Quality of chain
1	1A	2915	3% 64% 28% 6%
1	2A	2915	2% 53% 36% 6%
2	1B	121	66% 31%
2	2B	121	2% 49% 40% 11%

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Mol	Chain	Length	Quality of chain
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	
14	2S	112	
15	1T	146	

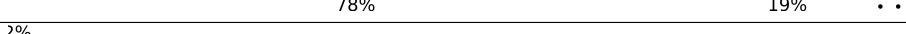
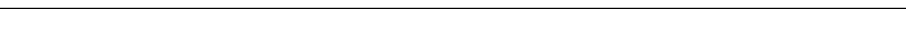
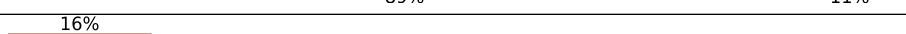
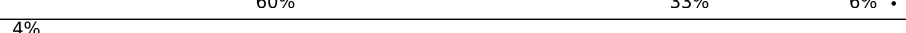
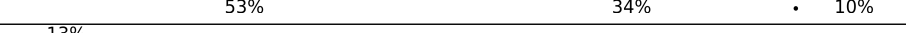
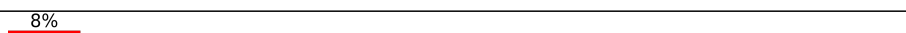
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Mol	Chain	Length	Quality of chain
15	2T	146	
16	1U	118	
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	
27	25	60	

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Mol	Chain	Length	Quality of chain
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	
40	1i	128	

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Mol	Chain	Length	Quality of chain
40	2i	128	
41	1j	105	
41	2j	105	
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	
52	1u	27	
52	2u	27	

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Mol	Chain	Length	Quality of chain
53	1v	24	
53	2v	24	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	PSU	2y	55	-	-	X	-
56	MG	1A	3091	-	-	-	X
56	MG	1A	4146	-	-	-	X
56	MG	1a	1683	-	-	-	X
56	MG	1a	1751	-	-	-	X
56	MG	1a	1804	-	-	-	X
56	MG	1w	103	-	-	-	X
56	MG	2A	3761	-	-	-	X
56	MG	2a	3029	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 301288 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
			61852	27531	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60322	26848	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	173	Total	C	N	O	S	0	0	0
			1321	839	246	235	1			
7	2H	173	Total	C	N	O	S	0	0	0
			1321	839	246	235	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	C	N	O	S	0	0	0
			933	588	171	170	4			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	1S	110	Total	C	N	O	0	0	0
			873	550	174	149			
14	2S	110	Total	C	N	O	0	0	0
			870	549	173	148			

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

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

- 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 and E-site tRNAs.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	74	Total	C	N	O	P	S	0	0	0
			1592	713	285	518	74	2			
54	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
54	2w	72	Total	C	N	O	P	S	0	0	0
			1544	690	278	502	72	2			
54	2y	73	Total	C	N	O	P	S	0	0	0
			1565	698	283	510	73	1			

- 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
			1625	725	294	529	76	1			
55	2x	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			

- Molecule 56 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1254	Total	Mg	0	0
			1254	1254		
56	1B	36	Total	Mg	0	0
			36	36		
56	1D	12	Total	Mg	0	0
			12	12		
56	1E	13	Total	Mg	0	0
			13	13		
56	1F	10	Total	Mg	0	0
			10	10		
56	1G	5	Total	Mg	0	0
			5	5		
56	1H	1	Total	Mg	0	0
			1	1		
56	1I	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1N	7	Total	Mg	0	0
			7	7		
56	1O	5	Total	Mg	0	0
			5	5		
56	1P	3	Total	Mg	0	0
			3	3		
56	1Q	5	Total	Mg	0	0
			5	5		
56	1R	3	Total	Mg	0	0
			3	3		
56	1S	3	Total	Mg	0	0
			3	3		
56	1T	2	Total	Mg	0	0
			2	2		
56	1U	6	Total	Mg	0	0
			6	6		
56	1V	2	Total	Mg	0	0
			2	2		
56	1W	6	Total	Mg	0	0
			6	6		
56	1X	6	Total	Mg	0	0
			6	6		
56	1Y	2	Total	Mg	0	0
			2	2		
56	1Z	3	Total	Mg	0	0
			3	3		
56	10	7	Total	Mg	0	0
			7	7		
56	11	3	Total	Mg	0	0
			3	3		
56	12	2	Total	Mg	0	0
			2	2		
56	13	2	Total	Mg	0	0
			2	2		
56	15	4	Total	Mg	0	0
			4	4		
56	16	2	Total	Mg	0	0
			2	2		
56	17	4	Total	Mg	0	0
			4	4		
56	18	3	Total	Mg	0	0
			3	3		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	19	2	Total 2	Mg 2	0	0
56	1a	330	Total 330	Mg 330	0	0
56	1b	2	Total 2	Mg 2	0	0
56	1c	2	Total 2	Mg 2	0	0
56	1d	1	Total 1	Mg 1	0	0
56	1e	2	Total 2	Mg 2	0	0
56	1f	2	Total 2	Mg 2	0	0
56	1l	4	Total 4	Mg 4	0	0
56	1m	1	Total 1	Mg 1	0	0
56	1n	1	Total 1	Mg 1	0	0
56	1s	1	Total 1	Mg 1	0	0
56	1t	1	Total 1	Mg 1	0	0
56	1v	1	Total 1	Mg 1	0	0
56	1w	11	Total 11	Mg 11	0	0
56	1x	18	Total 18	Mg 18	0	0
56	1y	5	Total 5	Mg 5	0	0
56	2A	919	Total 919	Mg 919	0	0
56	2B	21	Total 21	Mg 21	0	0
56	2D	3	Total 3	Mg 3	0	0
56	2E	8	Total 8	Mg 8	0	0
56	2F	4	Total 4	Mg 4	0	0

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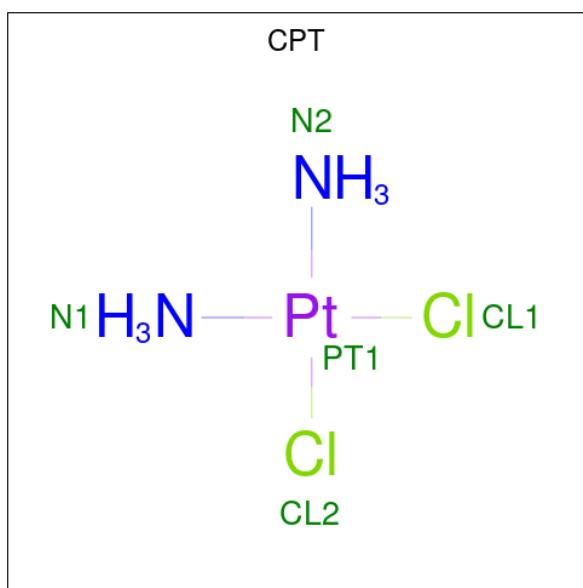
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2G	1	Total 1	Mg 1	0	0
56	2N	1	Total 1	Mg 1	0	0
56	2O	1	Total 1	Mg 1	0	0
56	2P	2	Total 2	Mg 2	0	0
56	2Q	3	Total 3	Mg 3	0	0
56	2R	2	Total 2	Mg 2	0	0
56	2T	1	Total 1	Mg 1	0	0
56	2U	6	Total 6	Mg 6	0	0
56	2V	1	Total 1	Mg 1	0	0
56	2W	4	Total 4	Mg 4	0	0
56	2X	2	Total 2	Mg 2	0	0
56	2Z	1	Total 1	Mg 1	0	0
56	20	3	Total 3	Mg 3	0	0
56	23	3	Total 3	Mg 3	0	0
56	25	4	Total 4	Mg 4	0	0
56	27	1	Total 1	Mg 1	0	0
56	28	3	Total 3	Mg 3	0	0
56	2a	236	Total 236	Mg 236	0	0
56	2d	1	Total 1	Mg 1	0	0
56	2e	1	Total 1	Mg 1	0	0
56	2f	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2g	1	Total 1 Mg 1	0	0
56	2j	2	Total 2 Mg 2	0	0
56	2l	4	Total 4 Mg 4	0	0
56	2n	1	Total 1 Mg 1	0	0
56	2p	1	Total 1 Mg 1	0	0
56	2q	4	Total 4 Mg 4	0	0
56	2r	1	Total 1 Mg 1	0	0
56	2t	1	Total 1 Mg 1	0	0
56	2v	6	Total 6 Mg 6	0	0
56	2w	7	Total 7 Mg 7	0	0
56	2x	6	Total 6 Mg 6	0	0
56	2y	7	Total 7 Mg 7	0	0

- Molecule 57 is Cisplatin (CCD ID: CPT) (formula: $\text{Cl}_2\text{H}_6\text{N}_2\text{Pt}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	1A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	1A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	1I	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	1a	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	2A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	2A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	2I	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
57	2a	1	Total	Cl	N	Pt	0	0
			4	1	2	1		

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

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

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

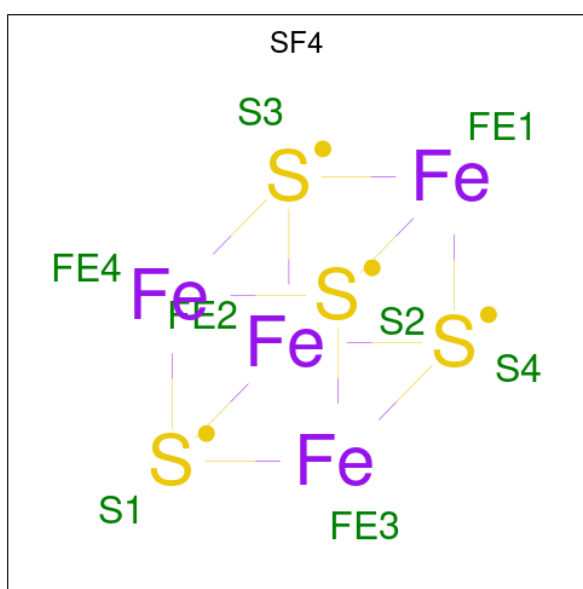
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	1Y	1	Total	Zn	0	0
			1	1		
59	14	1	Total	Zn	0	0
			1	1		
59	15	1	Total	Zn	0	0
			1	1		
59	16	1	Total	Zn	0	0
			1	1		
59	19	1	Total	Zn	0	0
			1	1		
59	1n	1	Total	Zn	0	0
			1	1		
59	2Y	1	Total	Zn	0	0
			1	1		
59	24	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	25	1	Total	Zn	0	0
			1	1		
59	26	1	Total	Zn	0	0
			1	1		
59	29	1	Total	Zn	0	0
			1	1		
59	2n	1	Total	Zn	0	0
			1	1		

- 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	0	0
			8	4	4		
60	2d	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1A	2273	Total	O	0	0
			2273	2273		
61	1B	70	Total	O	0	0
			70	70		
61	1D	28	Total	O	0	0
			28	28		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1E	27	Total 27	O 27	0	0
61	1F	15	Total 15	O 15	0	0
61	1G	7	Total 7	O 7	0	0
61	1H	1	Total 1	O 1	0	0
61	1I	1	Total 1	O 1	0	0
61	1N	3	Total 3	O 3	0	0
61	1O	6	Total 6	O 6	0	0
61	1P	23	Total 23	O 23	0	0
61	1Q	12	Total 12	O 12	0	0
61	1R	15	Total 15	O 15	0	0
61	1S	5	Total 5	O 5	0	0
61	1T	10	Total 10	O 10	0	0
61	1U	16	Total 16	O 16	0	0
61	1V	11	Total 11	O 11	0	0
61	1W	13	Total 13	O 13	0	0
61	1X	6	Total 6	O 6	0	0
61	1Y	5	Total 5	O 5	0	0
61	1Z	1	Total 1	O 1	0	0
61	10	12	Total 12	O 12	0	0
61	11	14	Total 14	O 14	0	0
61	12	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	13	5	Total 5	O 5	0	0
61	14	1	Total 1	O 1	0	0
61	15	7	Total 7	O 7	0	0
61	16	2	Total 2	O 2	0	0
61	17	7	Total 7	O 7	0	0
61	18	10	Total 10	O 10	0	0
61	1a	520	Total 520	O 520	0	0
61	1b	1	Total 1	O 1	0	0
61	1d	2	Total 2	O 2	0	0
61	1e	1	Total 1	O 1	0	0
61	1g	2	Total 2	O 2	0	0
61	1i	1	Total 1	O 1	0	0
61	1l	10	Total 10	O 10	0	0
61	1m	2	Total 2	O 2	0	0
61	1n	1	Total 1	O 1	0	0
61	1o	2	Total 2	O 2	0	0
61	1p	2	Total 2	O 2	0	0
61	1q	3	Total 3	O 3	0	0
61	1u	1	Total 1	O 1	0	0
61	1v	5	Total 5	O 5	0	0
61	1w	19	Total 19	O 19	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1x	15	Total 15	O 15	0	0
61	1y	2	Total 2	O 2	0	0
61	2A	1393	Total 1393	O 1393	0	0
61	2B	28	Total 28	O 28	0	0
61	2D	29	Total 29	O 29	0	0
61	2E	18	Total 18	O 18	0	0
61	2F	17	Total 17	O 17	0	0
61	2I	4	Total 4	O 4	0	0
61	2N	1	Total 1	O 1	0	0
61	2O	1	Total 1	O 1	0	0
61	2P	16	Total 16	O 16	0	0
61	2Q	2	Total 2	O 2	0	0
61	2R	2	Total 2	O 2	0	0
61	2T	7	Total 7	O 7	0	0
61	2U	3	Total 3	O 3	0	0
61	2V	2	Total 2	O 2	0	0
61	2W	4	Total 4	O 4	0	0
61	2X	2	Total 2	O 2	0	0
61	2Y	1	Total 1	O 1	0	0
61	2Z	2	Total 2	O 2	0	0
61	20	4	Total 4	O 4	0	0

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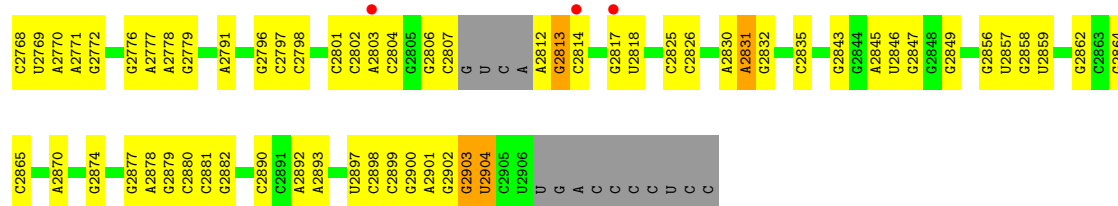
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	21	11	Total 11	O 11	0	0
61	22	1	Total 1	O 1	0	0
61	23	1	Total 1	O 1	0	0
61	25	3	Total 3	O 3	0	0
61	27	3	Total 3	O 3	0	0
61	28	4	Total 4	O 4	0	0
61	29	1	Total 1	O 1	0	0
61	2a	373	Total 373	O 373	0	0
61	2d	2	Total 2	O 2	0	0
61	2e	2	Total 2	O 2	0	0
61	2g	1	Total 1	O 1	0	0
61	2i	1	Total 1	O 1	0	0
61	2j	4	Total 4	O 4	0	0
61	2l	6	Total 6	O 6	0	0
61	2p	1	Total 1	O 1	0	0
61	2q	1	Total 1	O 1	0	0
61	2r	1	Total 1	O 1	0	0
61	2t	4	Total 4	O 4	0	0
61	2v	2	Total 2	O 2	0	0
61	2w	3	Total 3	O 3	0	0
61	2x	9	Total 9	O 9	0	0

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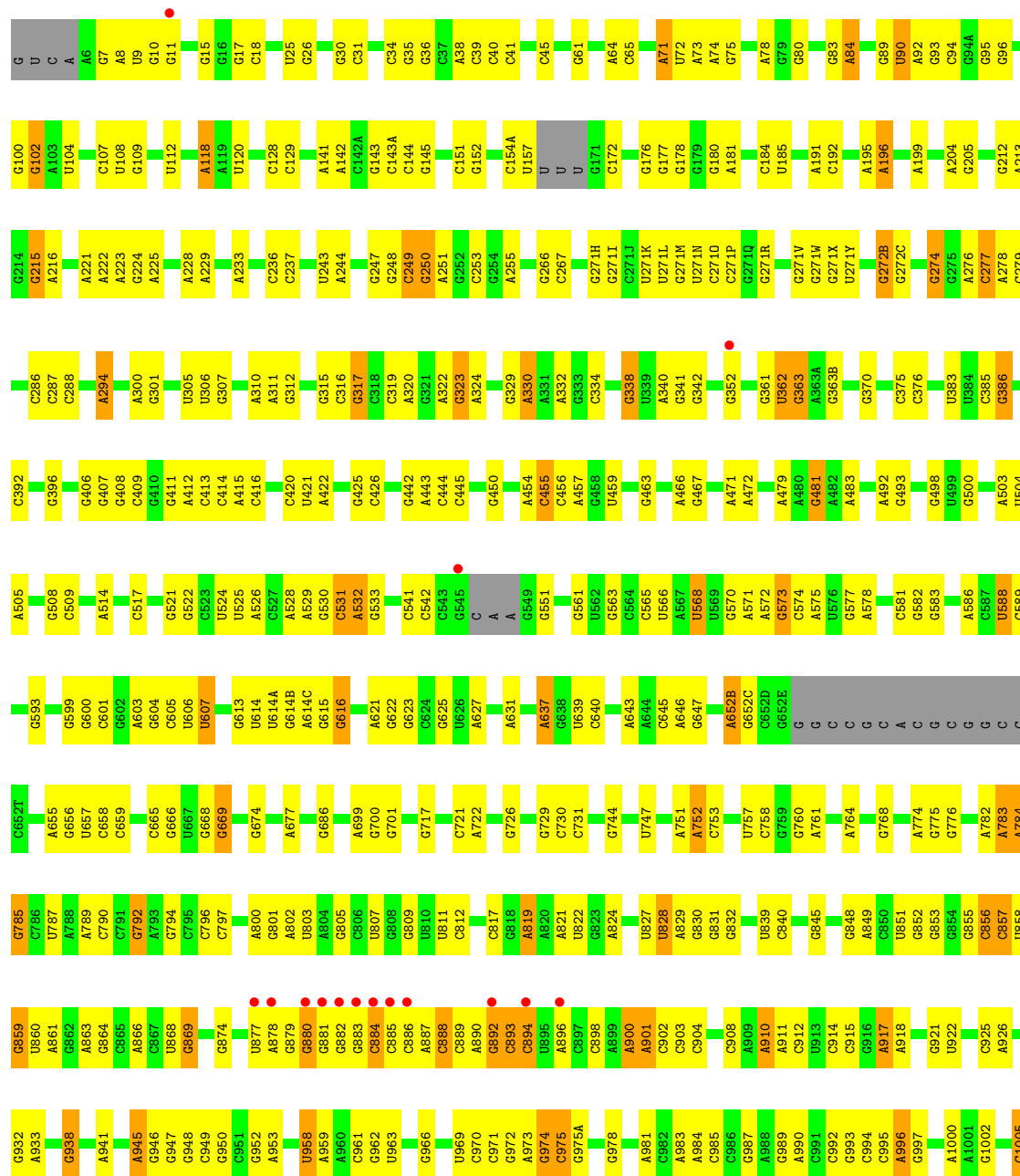
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2y	20	Total	O	0	0
			20	20		

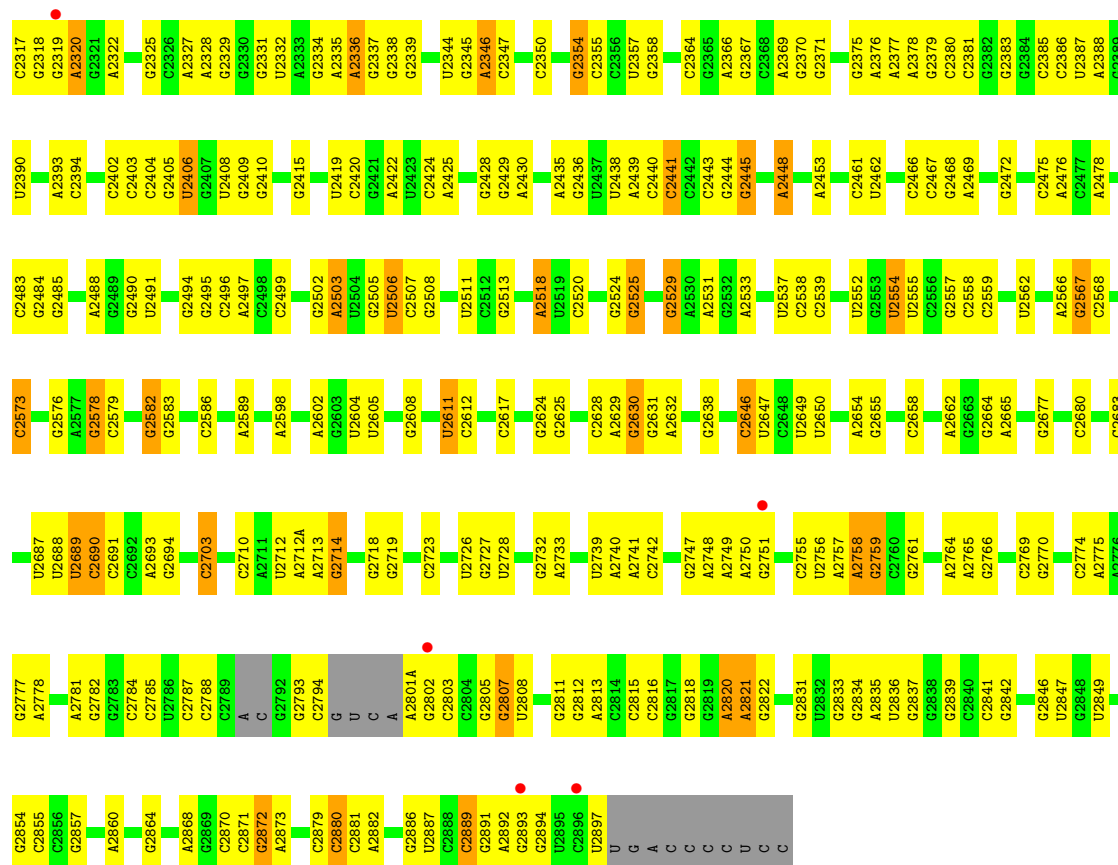




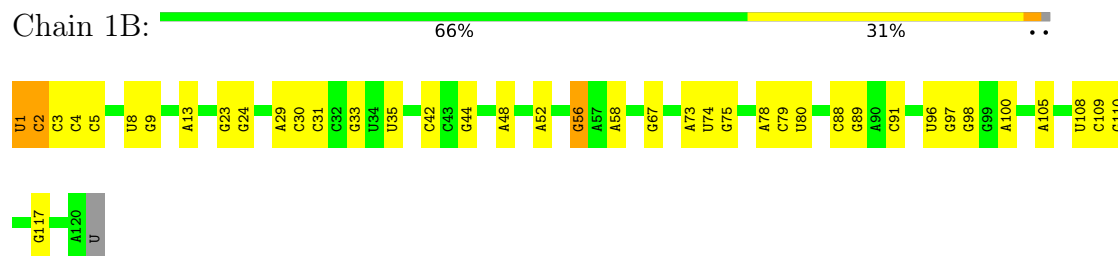
• Molecule 1: 23S ribosomal RNA



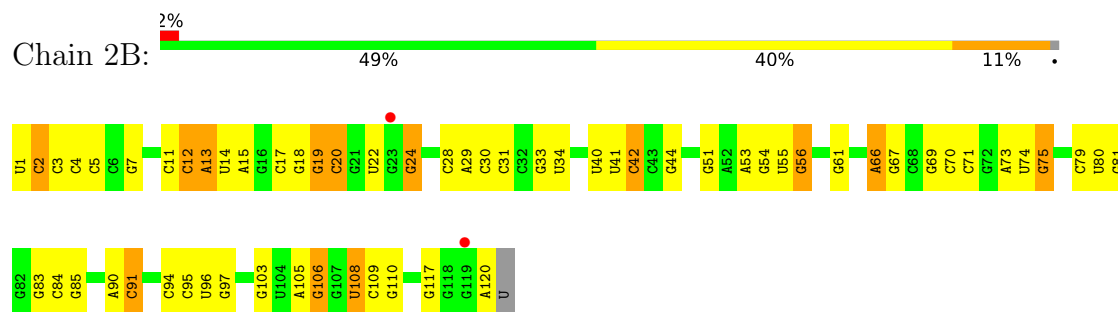
C2205	A2135	A2051	C1942	G1839	A1762	G1526	A1434	U1326	U1130	C1006
G2206	C2136	C2055	U1955	G1840	G1763	G1527	G1435	A1331	G1131	C1007
A2207	C2137	G2056	G1958	G1846	G1764	A1528	G1436	G1332	A	A1010
U2218	C2138		C1958	A1847	G1769	A1529	C1437	C1333	C	U1012
A2225	C2139	A2059	C1962	A1848	G1772	C1530	G1441	G1346	A	G1013
	G2140	A2060	U1963	G1849	A1773	C1531	G1442	U1352	C	U1014
U2232	C2141	A2061	G1964	G1857	C1774	C1532	A1445	A1353	C	G1015
	C2142	A2062	G1965	G1858	U1775	G1533	A1446	A1354	A	G1016
G2238	U2143	C2065	C1966	G1859	U1776	U	A1447	G1355	U	G1017
G2239	C2144	C2066	A1966	G1861	U1778	A	G1448	G1356	C	G1018
	C2145	C2067	G1968	G1862	U1779	C1536	A1449	A1142A	C	U1019
	C2146	G2068	A1969	G1865	A1780	G1537	G1450	A1143	U	A1020
G2242	G2147	G2069	A1970	G1868	G1781	G1538	A1359	A1144	U	A1021
U2243	G2148	G2070	A1971	G1877	C1648	G1539	U1453	C1147	U	G1022
A2247	U2149	A2071	A1972	A1877	G1649	U1540	G1455	A1148	U	U1023
C2248	G2150		G1973	G1878	G1651	G1541	A1460	G1149	A	G1024
U2249	C2151	U2074	C1974	A1879	G1652	A1542	G1461	G1150	A	G1025
G2250	G2152	U2075	U1991	C1880	G1653	A1543	G1462	G1151	G	U1026
G2251	C2153		C1974	G1881	A1654		G1463	C1152	A	A1027
	G2154		U1992	G1882		C1546	G1464	G1153	U	A1028
	G2155	G2094	G1993	A1889	G1660	C1547	G1465	G1154	G	A1029
U2265	C2156	C2095	U1994	A1890	G1661	C1548	G1466	U1165	C	G1030
	A2158	U2096	C1996	G1899	U1794	A1558	G1467	A1254	C	G1031
A2268	G2159	C2097	G1997	A1900	U1795	A1559	C1468	U1255	U	A1032
	C2160	U2098	G1998	G1903	C1796	A1560	G1469	G1256	G	U1033
A2274	C2161	G2100	C1999	G1906	U1797	A1561	G1470	C1257	A	G1036
C2275	G2162	G2101	G2010	U1911	A1668	A1562	G1471	U1263	U	G1037
C2276	C2163	C2105	G2011	A1912	A1669	G1568	G1472	G1171	U	G1038
G2277	G2164	C2106	A2012	A1913	C1670	A1569	G1473	G	A	G1039
A2278	C2165	C2107	A2013	A1914	U1671	A1570	G1474	U	C	U1040
	G2166	C2108	A2014	A1915	U1672	A1571	G1475	A	C	G1041
C2283	C2167	U2109	A2015	A1916	G1674	A1572	G1476	G	U	G1042
C2284	G2168	G2110	A2016	U1917	U1675	A1573	G1477	A	C	C1043
C2285	A2170	C2111	G2021	A1918	A1800	C1584	G1478	U1178	C	G1044
A2287	C2171	G2112	U2022	A1919	G1801	C1585	G1479	G1179	A	C1045
A2288	U2172	U2113	G2023	A1920	A1802	C1586	G1480	U	A	G
G2289	C2173	G2114	C2024	G1921	A1803	A1587	A1490	A1385	A	A
U2291	G2174	G2115	G2025	G1922	U1804	C1588	C1493	U1396	G	A
C2292	C2175	A2117	C2026	G1923	A1805	G1593	U1497	U1405	U	C
C2293	C2176	U2118	A2030	C1924	G1814	G1594	U1503	C1407	C	A
C2294	C2177	A2119	A2031	G1925	G1815	G1595	C1504	C1408	A	C
C2295	G2178	G2120	G2032	U1926	G1816	C1599	A1507	C1409	G1182	C
U2296	U2180	G2121	A2033	A1927	G1817	C1604	A1508	G1410	U1188	C
	C2181	U2122	G2034	G1928	G1818	C1605	A1509	C1411	A1189	C
G2303	G2182	G2123	G2035	U1929	G1826	C1606	A1509A	G1412	G1190	A
G2304	C2183	G2124	C2036	G1930	A1829	C1607	A1509B	G1413	G1191	G
A2305	G2184	G2125	C2037	G1931	C1830	A1608	G1510	U1300	G1116	A
G2306	C2185	A2126	C2038	U1932	C1831	A1609	G1511	A1301	G1117	G
G2307	U2189	G2127	U2041	G1933	A1610	A1609	G1512	A1418	C1119	A
A2308	C2190	C2128	A2042	G1934	U1739	A1610	G1513	G1419	G	G
A2309	G2191	U2129	C2043	A1936	U1833	A1611	G1514	U1420	U	U
	C2192	U2130	C2044	A1937	G1746	G1613	G1515	G1421	G1122	G
U2312	G2193	G2131	C2045	A1938	G1756	A1614	G1516	A1427	U1205	C
C2313	A2198	U2132	G2048	U1939	G1761	A1615	G1517	C1428	G1209	C
C2314	G2199	G2133	U2049	U1940				G1429	A1210	U
C2315	U2203	A2134	C2050	C1941				C1430	U1211	A



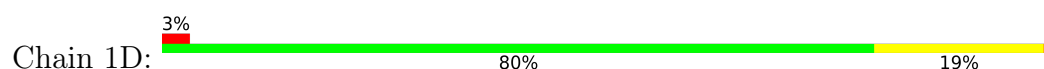
- Molecule 2: 5S ribosomal RNA

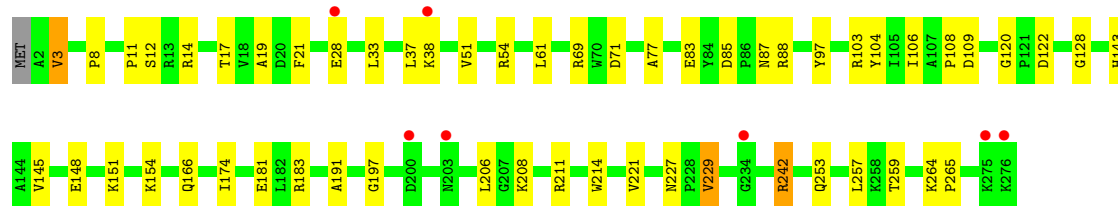


- Molecule 2: 5S ribosomal RNA

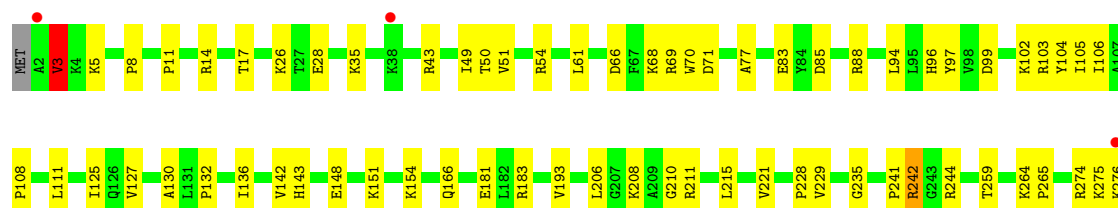
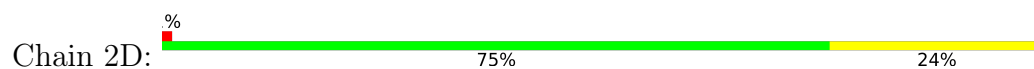


- Molecule 3: 50S ribosomal protein L2

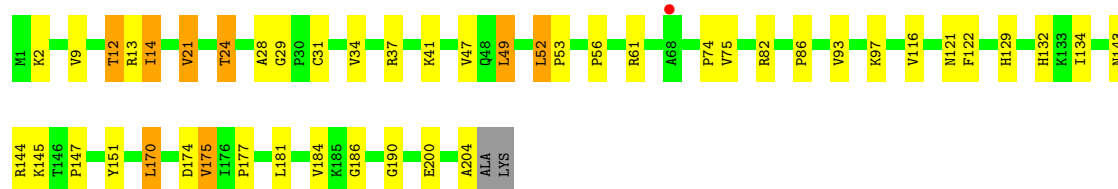
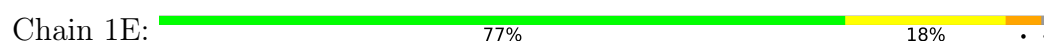




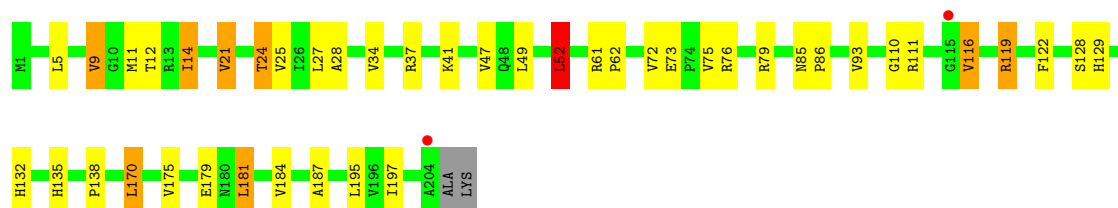
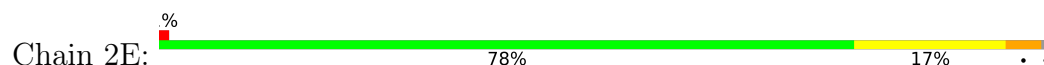
• Molecule 3: 50S ribosomal protein L2



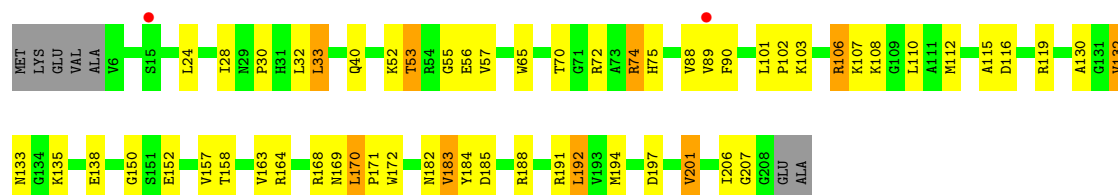
• Molecule 4: 50S ribosomal protein L3



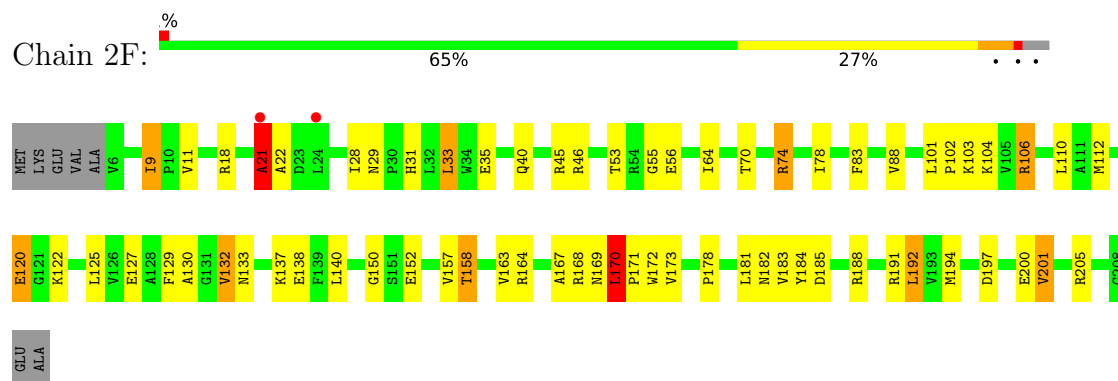
• Molecule 4: 50S ribosomal protein L3



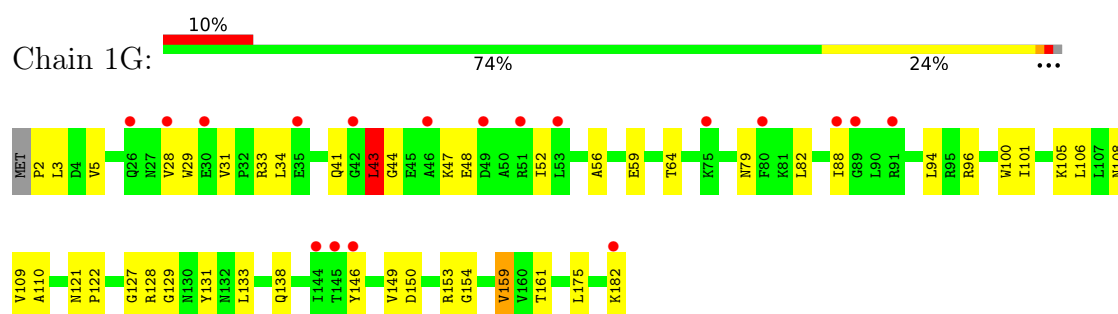
• Molecule 5: 50S ribosomal protein L4



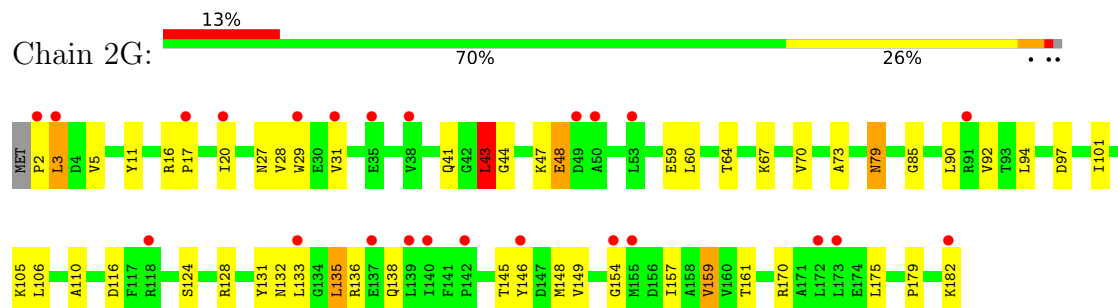
- Molecule 5: 50S ribosomal protein L4



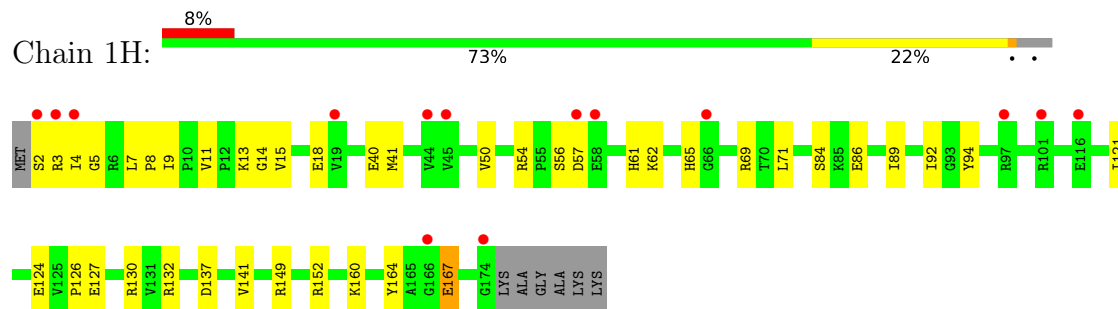
- Molecule 6: 50S ribosomal protein L5



- Molecule 6: 50S ribosomal protein L5

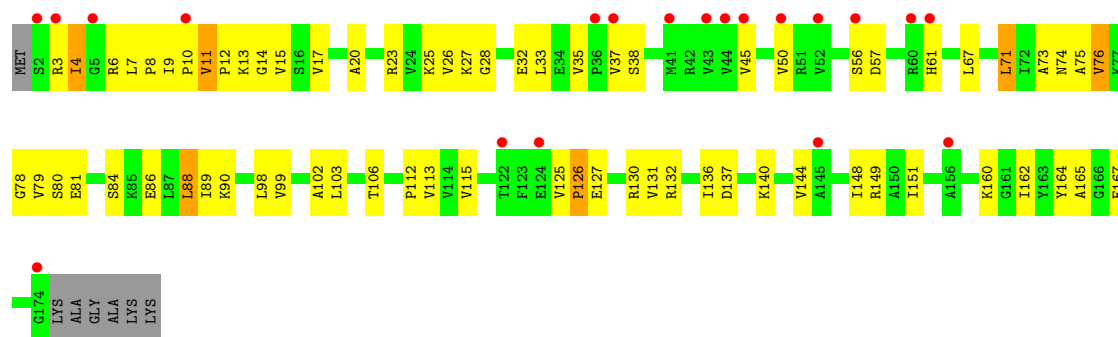


- Molecule 7: 50S ribosomal protein L6

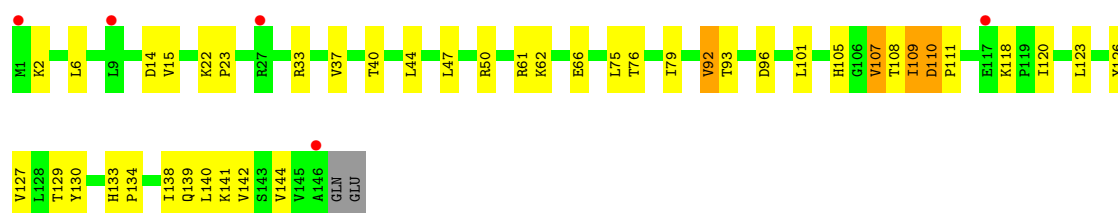


- Molecule 7: 50S ribosomal protein L6

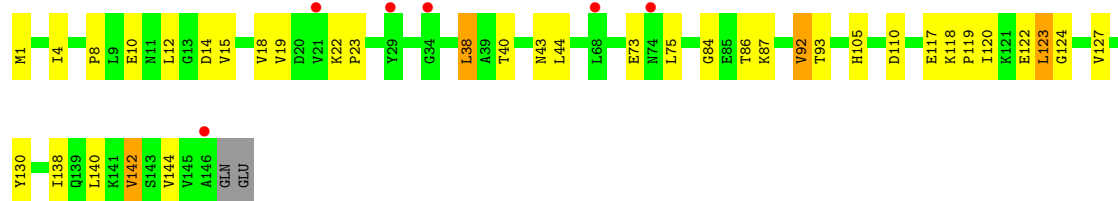
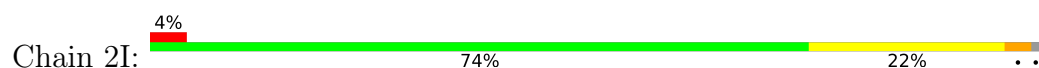




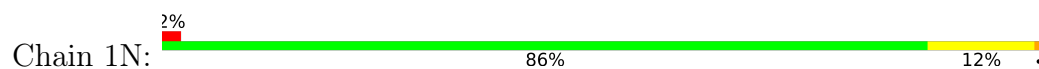
• Molecule 8: 50S ribosomal protein L9



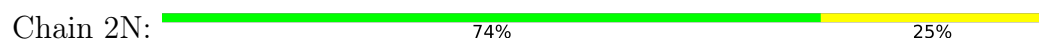
• Molecule 8: 50S ribosomal protein L9



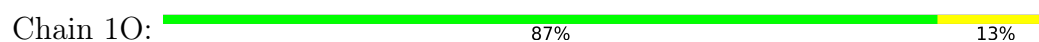
• Molecule 9: 50S ribosomal protein L13

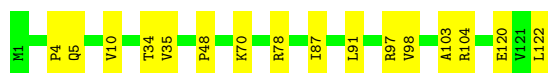


• Molecule 9: 50S ribosomal protein L13

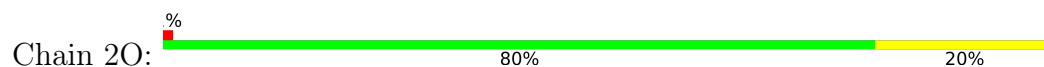


• Molecule 10: 50S ribosomal protein L14

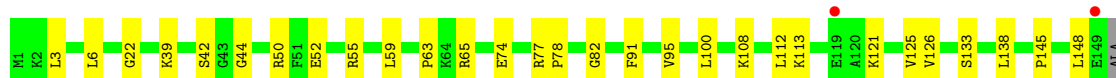
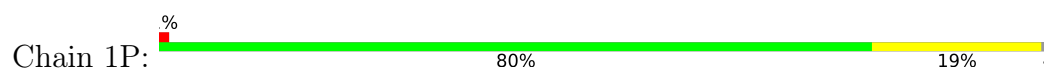




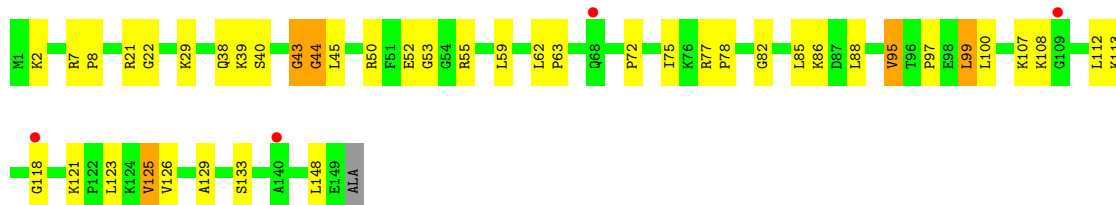
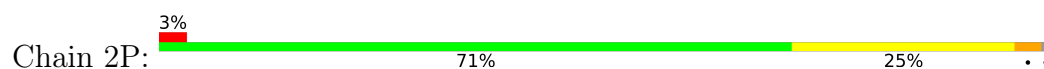
- Molecule 10: 50S ribosomal protein L14



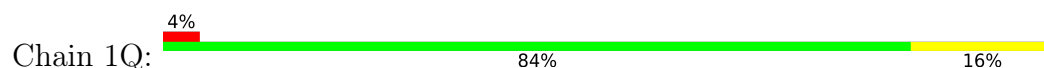
- Molecule 11: 50S ribosomal protein L15



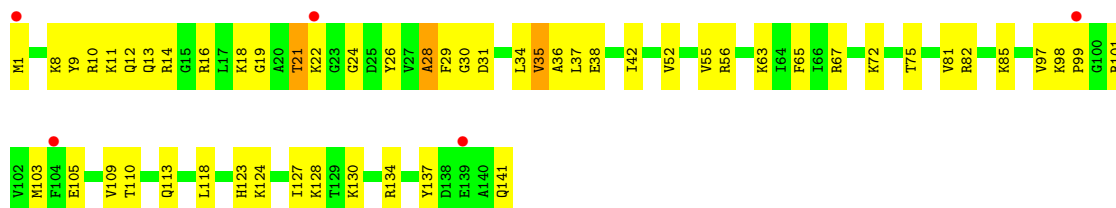
- Molecule 11: 50S ribosomal protein L15



- Molecule 12: 50S ribosomal protein L16

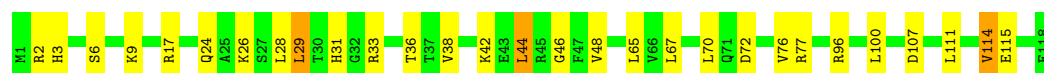


- Molecule 12: 50S ribosomal protein L16



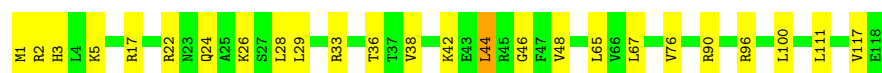
- Molecule 13: 50S ribosomal protein L17

Chain 1R:  75% 22% .



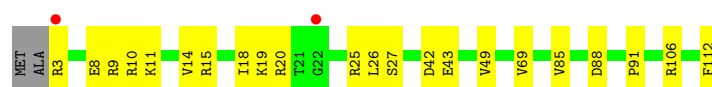
- Molecule 13: 50S ribosomal protein L17

Chain 2R:  79% 20% .



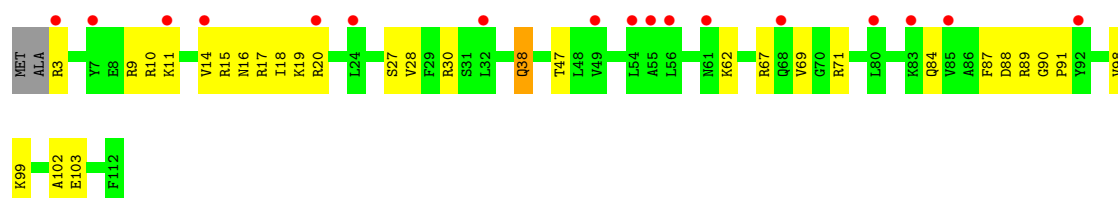
- Molecule 14: 50S ribosomal protein L18

Chain 1S:  2% 79% 20% .



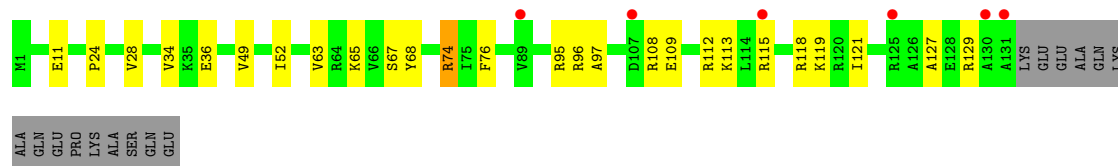
- Molecule 14: 50S ribosomal protein L18

Chain 2S:  15% 71% 26% ..



- Molecule 15: 50S ribosomal protein L19

Chain 1T:  4% 72% 17% . 10%

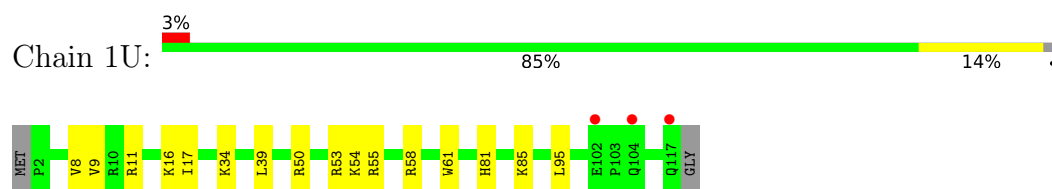


- Molecule 15: 50S ribosomal protein L19

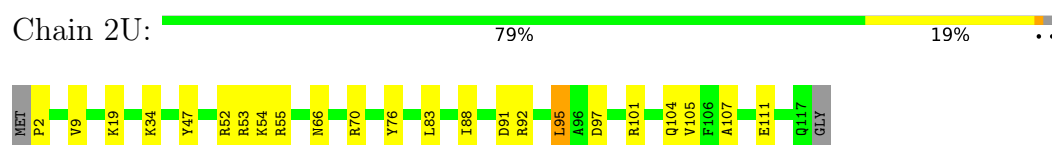
Chain 2T:  71% 19% 10%



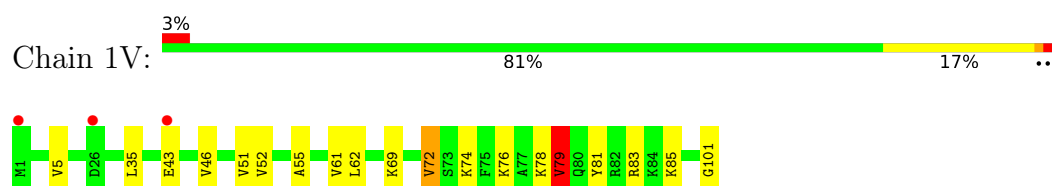
• Molecule 16: 50S ribosomal protein L20



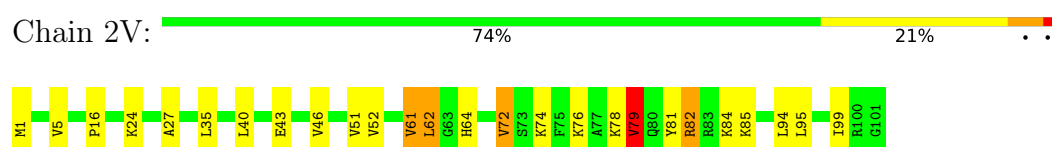
• Molecule 16: 50S ribosomal protein L20



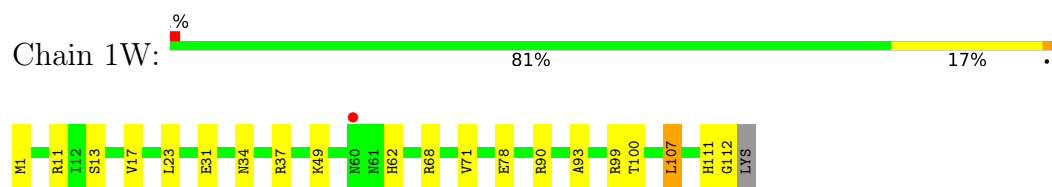
• Molecule 17: 50S ribosomal protein L21



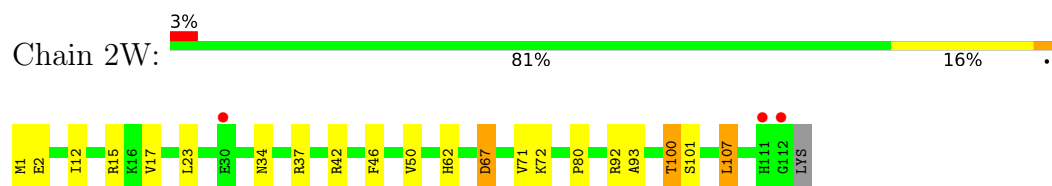
• Molecule 17: 50S ribosomal protein L21



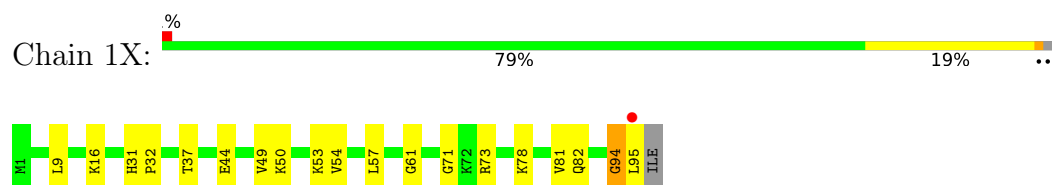
• Molecule 18: 50S ribosomal protein L22



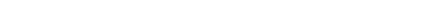
• Molecule 18: 50S ribosomal protein L22



• Molecule 19: 50S ribosomal protein L23

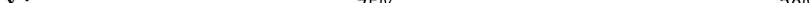


- Molecule 19: 50S ribosomal protein L23

Chain 2X:  79% 19% ..

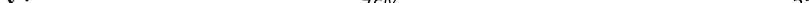


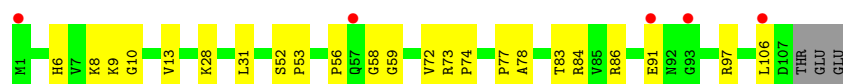
- Molecule 20: 50S ribosomal protein L24

Chain 1Y: 

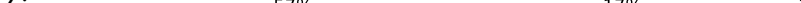


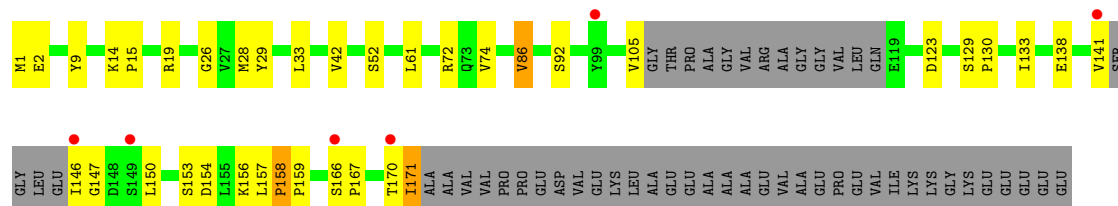
- Molecule 20: 50S ribosomal protein L24

Chain 2Y: 

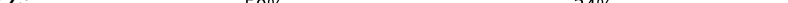


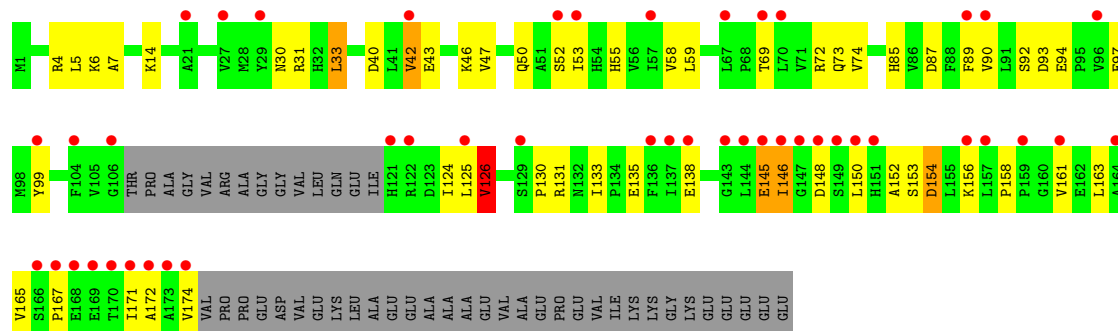
- Molecule 21: 50S ribosomal protein L25

Chain 1Z: 

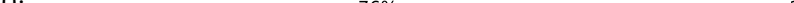


- Molecule 21: 50S ribosomal protein L25

Chain 2Z: 

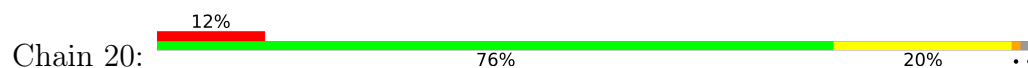


- Molecule 22: 50S ribosomal protein L27

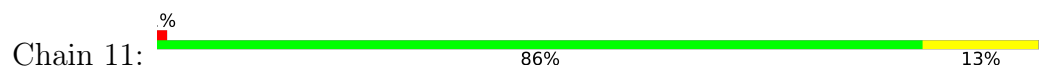
Chain 10:  2% 76% 21%



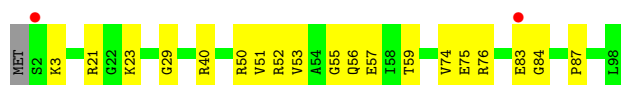
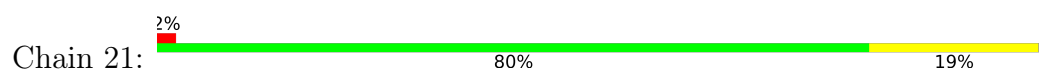
- Molecule 22: 50S ribosomal protein L27



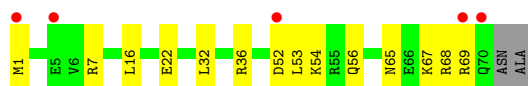
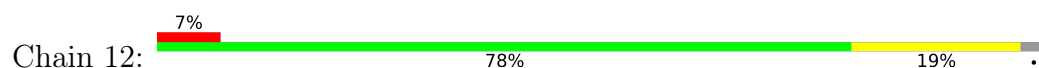
- Molecule 23: 50S ribosomal protein L28



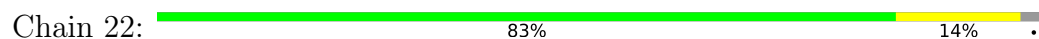
- Molecule 23: 50S ribosomal protein L28



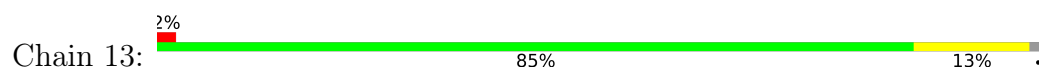
- Molecule 24: 50S ribosomal protein L29



- Molecule 24: 50S ribosomal protein L29

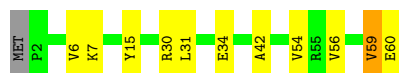


- Molecule 25: 50S ribosomal protein L30



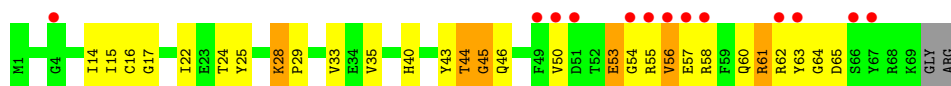
- Molecule 25: 50S ribosomal protein L30

Chain 23:  80% 17% ..



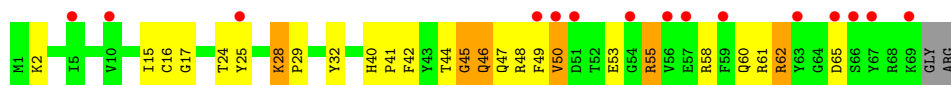
- Molecule 26: 50S ribosomal protein L31

Chain 14:  18% 56% 32% 8% .



- Molecule 26: 50S ribosomal protein L31

Chain 24:  21% 61% 28% 8% .



- Molecule 27: 50S ribosomal protein L32

Chain 15:  2% 82% 13% ..



- Molecule 27: 50S ribosomal protein L32

Chain 25:  78% 17% ..



- Molecule 28: 50S ribosomal protein L33

Chain 16:  80% 19% .

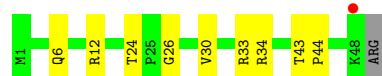
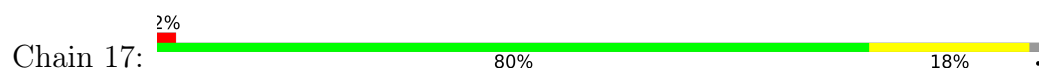


- Molecule 28: 50S ribosomal protein L33

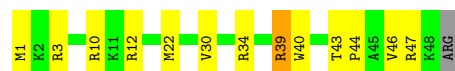
Chain 26:  2% 78% 19% ..



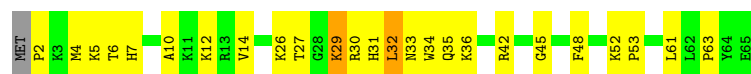
- Molecule 29: 50S ribosomal protein L34



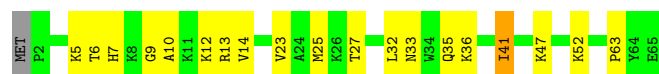
- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



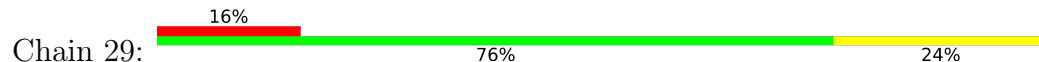
- Molecule 30: 50S ribosomal protein L35



- Molecule 31: 50S ribosomal protein L36

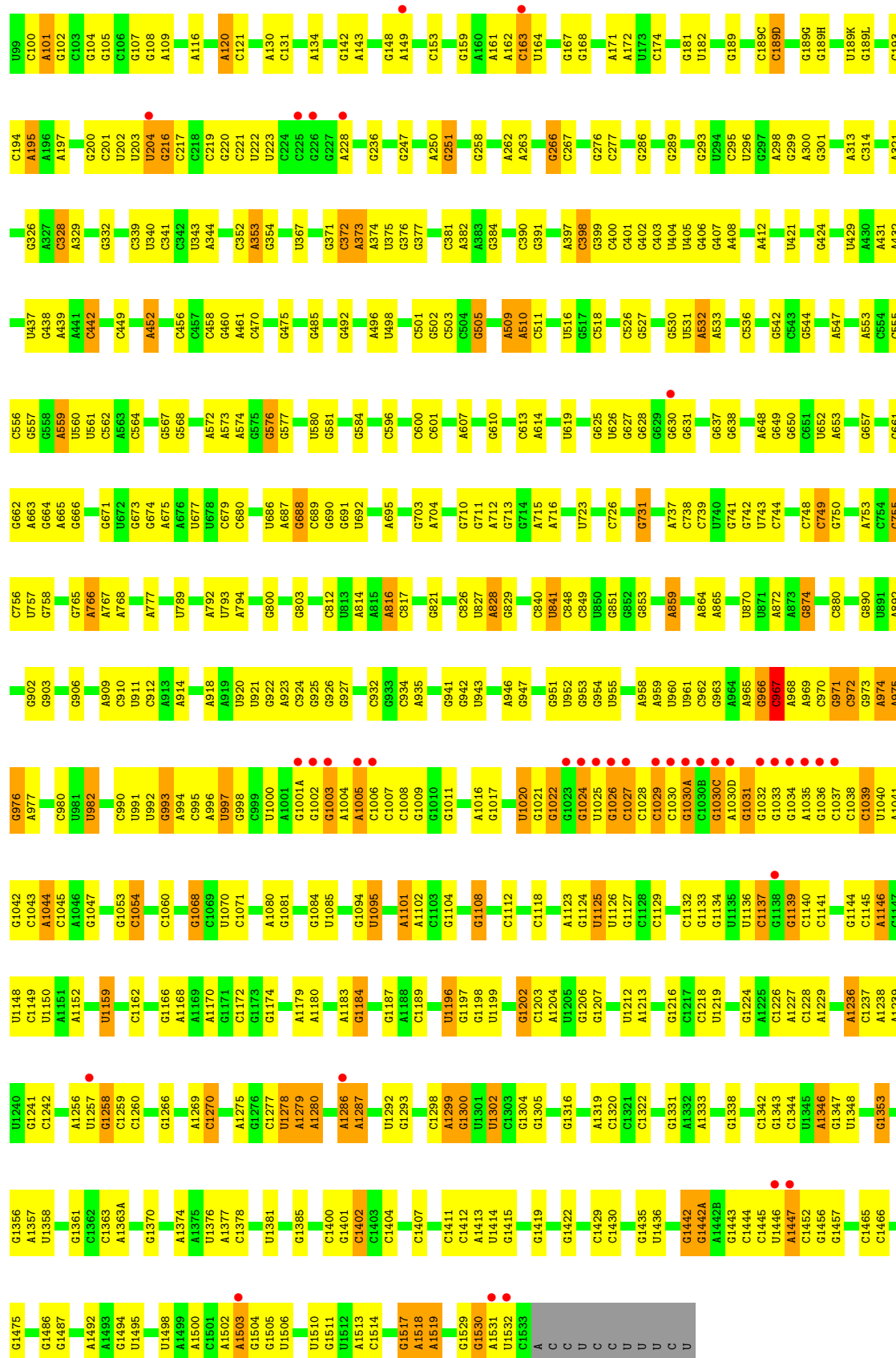


- Molecule 31: 50S ribosomal protein L36



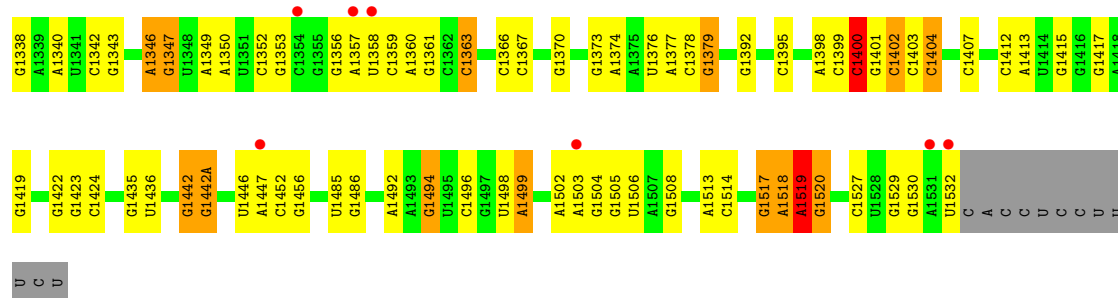
- Molecule 32: 16S ribosomal RNA



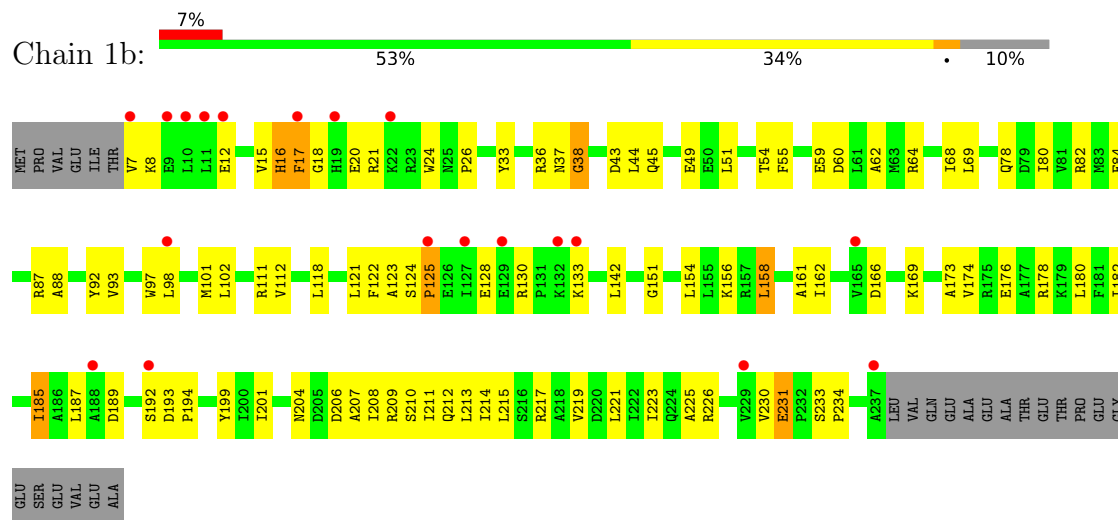


• Molecule 32: 16S ribosomal RNA

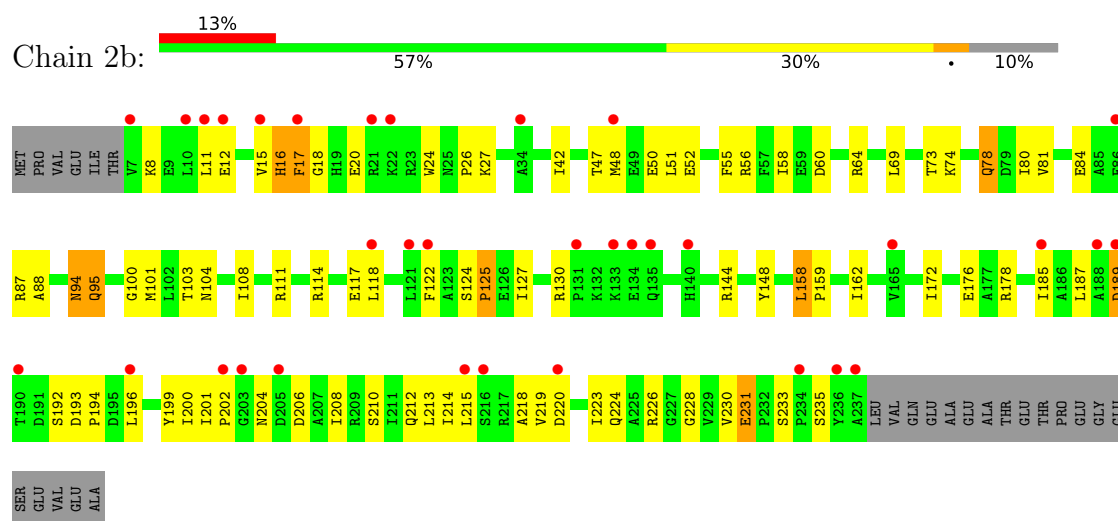




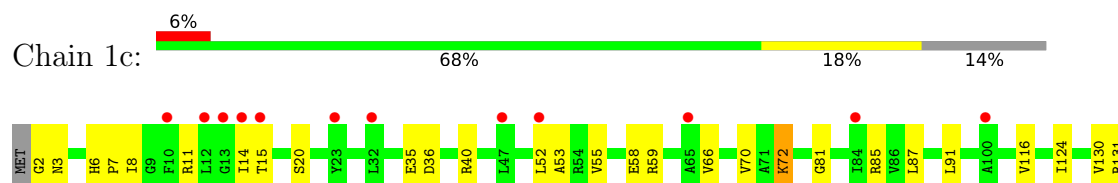
• Molecule 33: 30S ribosomal protein S2

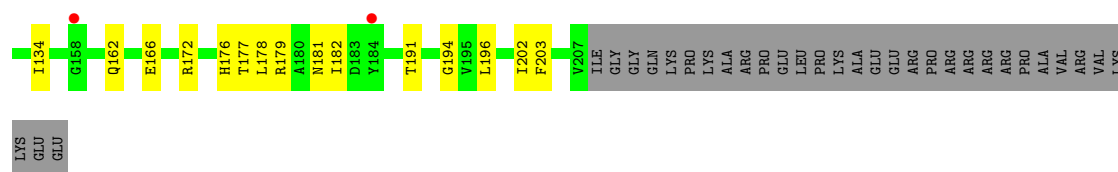


• Molecule 33: 30S ribosomal protein S2

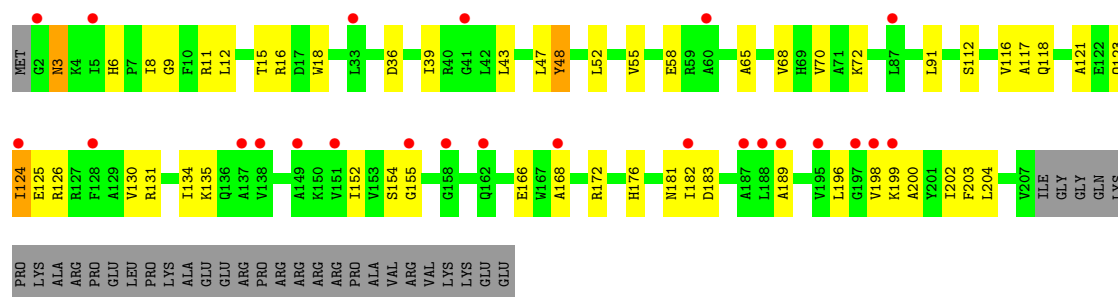


• Molecule 34: 30S ribosomal protein S3

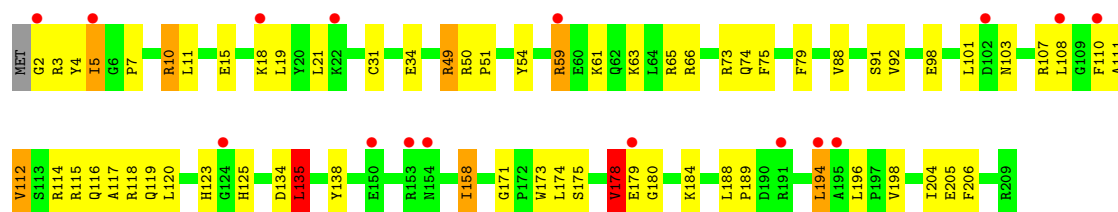




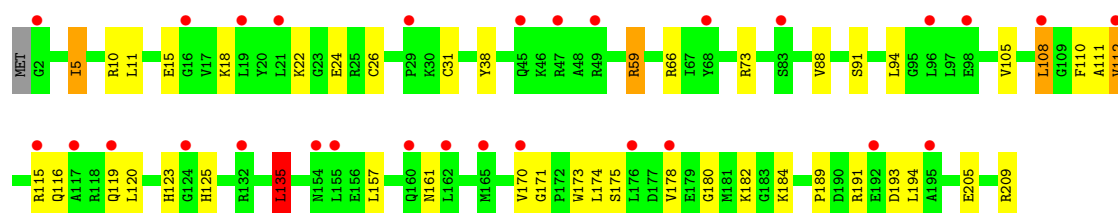
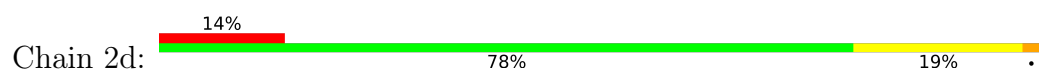
• Molecule 34: 30S ribosomal protein S3



• Molecule 35: 30S ribosomal protein S4



• Molecule 35: 30S ribosomal protein S4

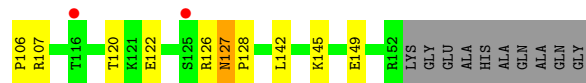


• Molecule 36: 30S ribosomal protein S5

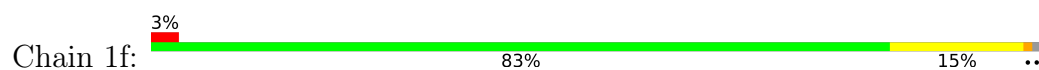




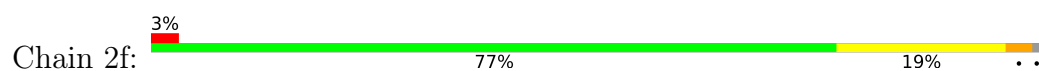
- Molecule 36: 30S ribosomal protein S5



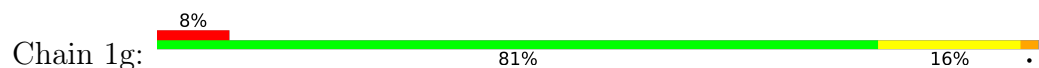
- Molecule 37: 30S ribosomal protein S6



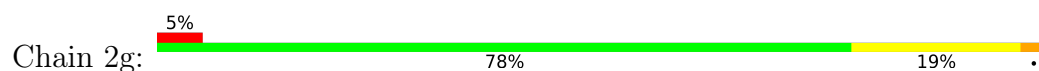
- Molecule 37: 30S ribosomal protein S6



- Molecule 38: 30S ribosomal protein S7

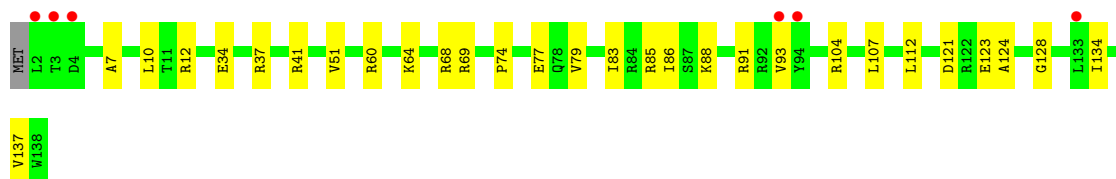
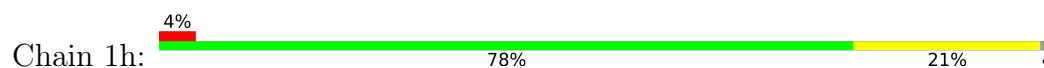


- Molecule 38: 30S ribosomal protein S7

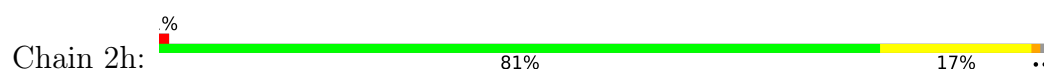




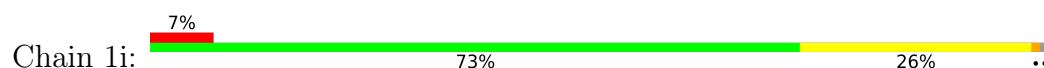
- Molecule 39: 30S ribosomal protein S8



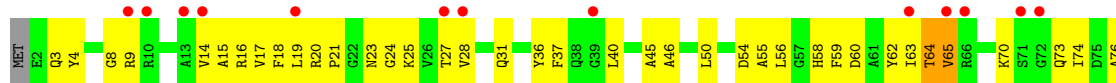
- Molecule 39: 30S ribosomal protein S8



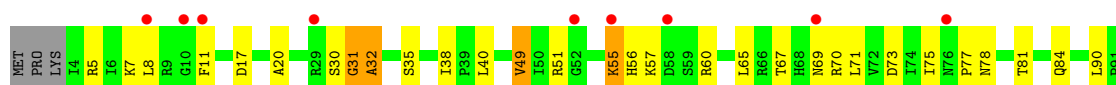
- Molecule 40: 30S ribosomal protein S9

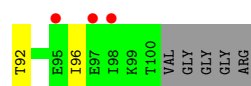


- Molecule 40: 30S ribosomal protein S9

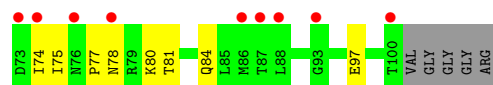


- Molecule 41: 30S ribosomal protein S10

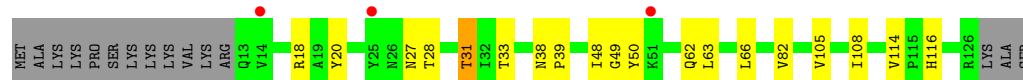
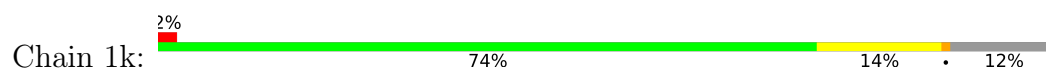




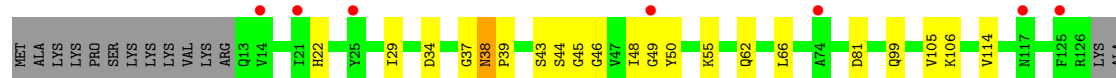
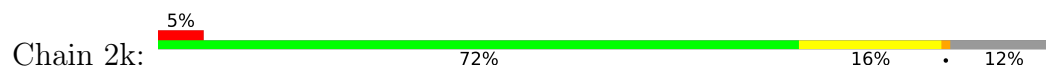
- Molecule 41: 30S ribosomal protein S10



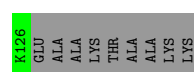
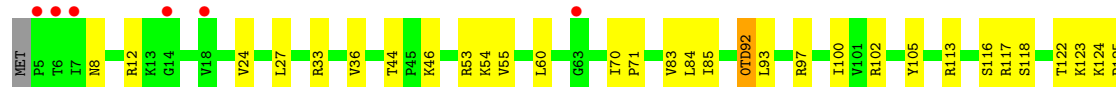
- Molecule 42: 30S ribosomal protein S11



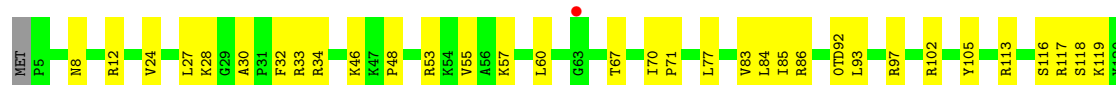
- Molecule 42: 30S ribosomal protein S11

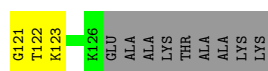


- Molecule 43: 30S ribosomal protein S12

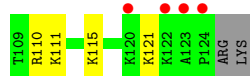
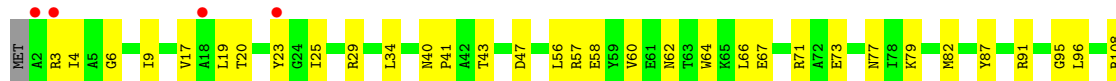
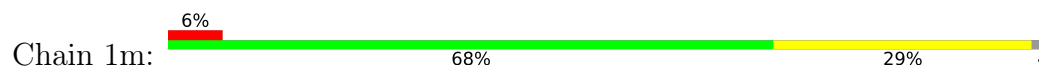


- Molecule 43: 30S ribosomal protein S12





- Molecule 44: 30S ribosomal protein S13



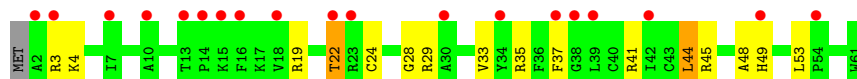
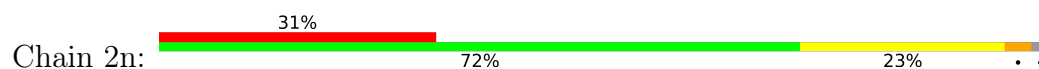
- Molecule 44: 30S ribosomal protein S13



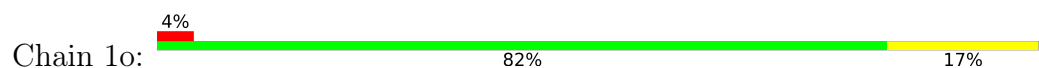
- Molecule 45: 30S ribosomal protein S14 type Z



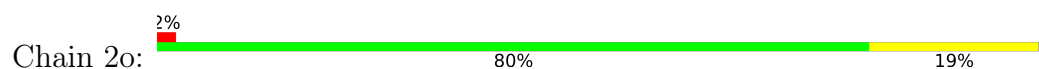
- Molecule 45: 30S ribosomal protein S14 type Z



- Molecule 46: 30S ribosomal protein S15



- Molecule 46: 30S ribosomal protein S15

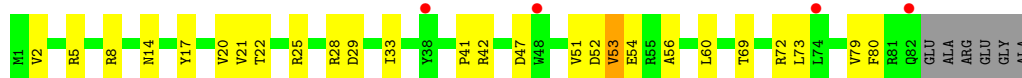




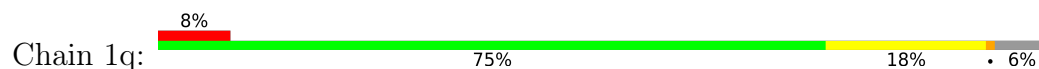
- Molecule 47: 30S ribosomal protein S16



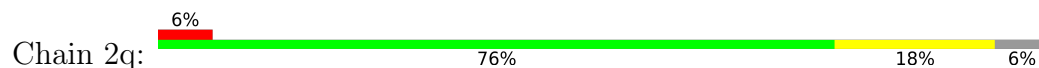
- Molecule 47: 30S ribosomal protein S16



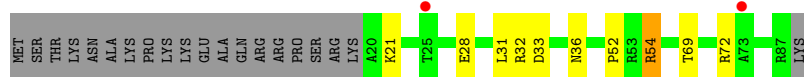
- Molecule 48: 30S ribosomal protein S17



- Molecule 48: 30S ribosomal protein S17



- Molecule 49: 30S ribosomal protein S18

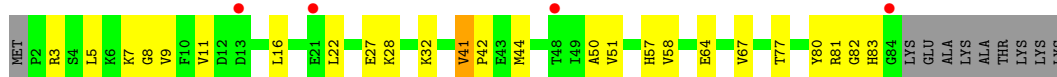


- Molecule 49: 30S ribosomal protein S18

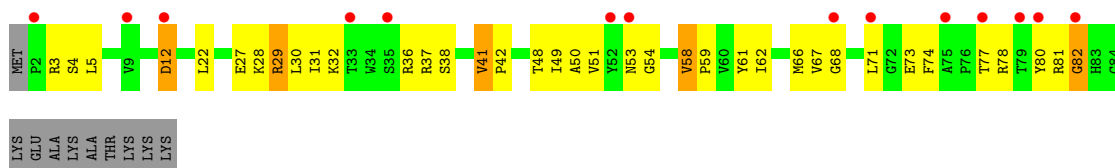




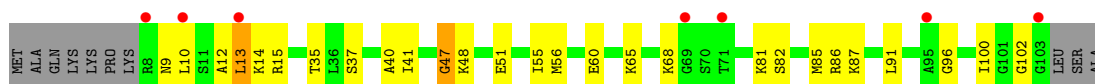
- Molecule 50: 30S ribosomal protein S19



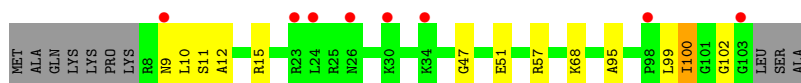
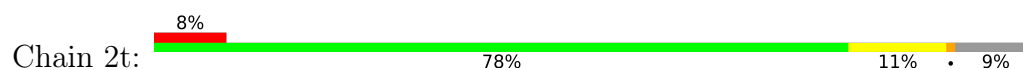
- Molecule 50: 30S ribosomal protein S19



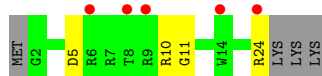
- Molecule 51: 30S ribosomal protein S20



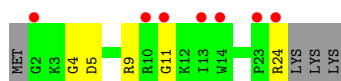
- Molecule 51: 30S ribosomal protein S20



- Molecule 52: 30S ribosomal protein Thx



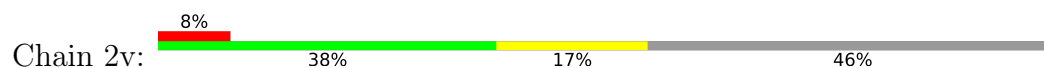
- Molecule 52: 30S ribosomal protein Thx



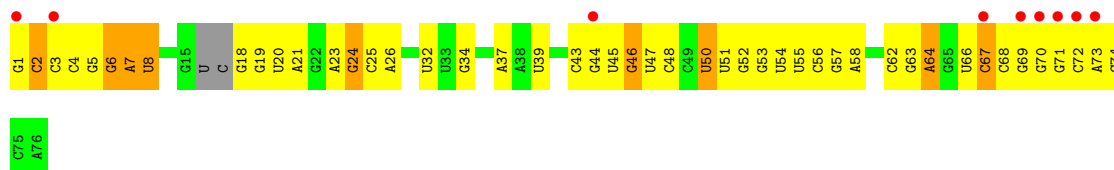
- Molecule 53: mRNA



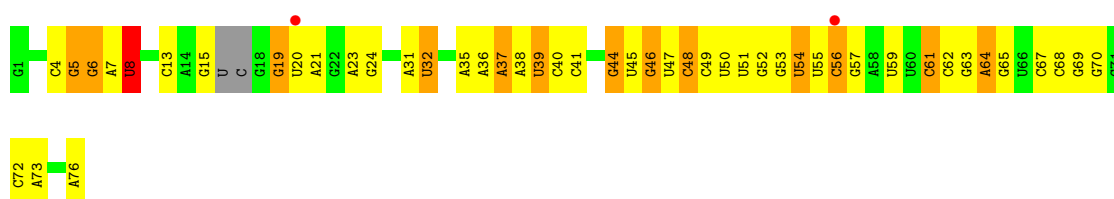
- Molecule 53: mRNA



- Molecule 54: A-site and E-site tRNAs



- Molecule 54: A-site and E-site tRNAs

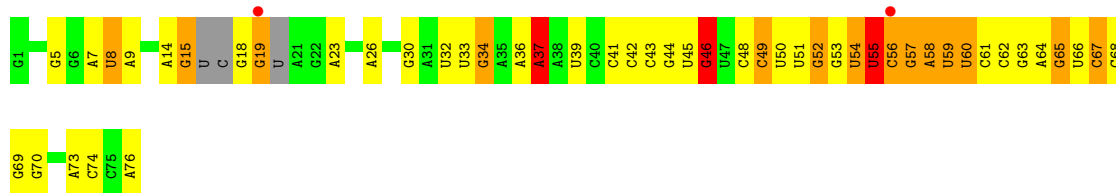


- Molecule 54: A-site and E-site tRNAs

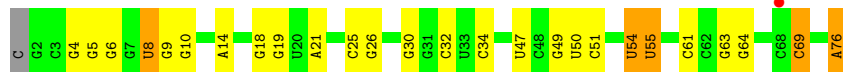


- Molecule 54: A-site and E-site tRNAs





• Molecule 55: P-site tRNA



• Molecule 55: P-site tRNA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.98Å 446.99Å 621.07Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	152.65 – 2.80 152.65 – 2.80	Depositor EDS
% Data completeness (in resolution range)	98.3 (152.65-2.80) 98.3 (152.65-2.80)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.24 (at 2.82Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.219 , 0.268 0.220 , 0.267	Depositor DCC
R_{free} test set	69488 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	56.5	Xtriage
Anisotropy	0.259	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 62.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	301288	wwPDB-VP
Average B, all atoms (Å ²)	60.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 2MG, K, 5MU, 2MU, UR3, 0TD, 5MC, CPT, PSU, OMG, ZN, 4OC, MG, MA6, 4SU, 7MG, MIA, M2G, 2MA, SF4

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	0.28	0/69009	0.43	2/107712 (0.0%)
1	2A	0.22	0/67293	0.41	1/105034 (0.0%)
2	1B	0.22	0/2882	0.37	0/4494
2	2B	0.23	0/2879	0.39	0/4487
3	1D	0.49	0/2186	0.87	4/2944 (0.1%)
3	2D	0.42	0/2186	0.85	2/2944 (0.1%)
4	1E	0.48	0/1592	0.87	2/2149 (0.1%)
4	2E	0.41	0/1592	0.89	2/2149 (0.1%)
5	1F	0.47	0/1619	0.86	0/2193
5	2F	0.39	0/1615	0.91	5/2188 (0.2%)
6	1G	0.40	0/1448	0.88	5/1957 (0.3%)
6	2G	0.37	0/1453	0.93	1/1963 (0.1%)
7	1H	0.43	0/1347	0.88	5/1823 (0.3%)
7	2H	0.40	0/1347	0.95	5/1823 (0.3%)
8	1I	0.38	0/1112	0.88	4/1514 (0.3%)
8	2I	0.37	0/1079	0.85	2/1475 (0.1%)
9	1N	0.47	0/1144	0.81	0/1543
9	2N	0.37	0/1144	0.91	6/1543 (0.4%)
10	1O	0.48	0/943	0.82	0/1269
10	2O	0.39	0/943	0.78	0/1269
11	1P	0.46	0/1152	0.82	3/1533 (0.2%)
11	2P	0.37	0/1152	0.92	7/1533 (0.5%)
12	1Q	0.47	0/1143	0.77	0/1527
12	2Q	0.38	0/1143	0.85	0/1527
13	1R	0.50	0/982	0.81	0/1312
13	2R	0.41	0/982	0.78	1/1312 (0.1%)
14	1S	0.41	0/883	0.77	0/1176
14	2S	0.38	0/880	0.82	0/1172
15	1T	0.43	0/1105	0.80	0/1477
15	2T	0.38	0/1097	0.83	0/1468
16	1U	0.52	0/977	0.79	1/1301 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.39	0/977	0.81	1/1301 (0.1%)
17	1V	0.44	0/782	0.76	0/1049
17	2V	0.39	0/782	0.79	0/1049
18	1W	0.52	0/897	0.85	2/1205 (0.2%)
18	2W	0.44	0/897	0.83	0/1205
19	1X	0.48	0/764	0.86	2/1025 (0.2%)
19	2X	0.39	0/764	0.82	0/1025
20	1Y	0.45	0/819	0.83	0/1095
20	2Y	0.36	0/819	0.86	3/1095 (0.3%)
21	1Z	0.39	0/1267	0.93	10/1717 (0.6%)
21	2Z	0.41	0/1299	0.97	6/1763 (0.3%)
22	10	0.43	0/662	0.86	1/881 (0.1%)
22	20	0.37	0/662	0.90	2/881 (0.2%)
23	11	0.44	0/762	0.82	0/1014
23	21	0.38	0/762	0.80	0/1014
24	12	0.46	0/590	0.81	0/781
24	22	0.35	0/590	0.77	0/781
25	13	0.48	0/474	0.84	0/635
25	23	0.34	0/469	0.80	0/630
26	14	0.43	0/565	1.09	6/761 (0.8%)
26	24	0.43	0/545	0.96	4/737 (0.5%)
27	15	0.47	0/469	0.75	0/635
27	25	0.40	0/469	0.78	0/635
28	16	0.42	0/460	0.73	0/613
28	26	0.39	0/456	0.80	2/608 (0.3%)
29	17	0.49	0/426	0.80	2/561 (0.4%)
29	27	0.46	0/426	0.84	0/561
30	18	0.49	0/525	0.82	0/691
30	28	0.37	0/525	0.79	0/691
31	19	0.44	0/310	0.84	0/407
31	29	0.35	0/310	0.80	0/407
32	1a	0.20	0/35795	0.38	0/55864
32	2a	0.19	0/35886	0.36	0/56005
33	1b	0.38	0/1881	0.91	8/2542 (0.3%)
33	2b	0.39	0/1860	0.93	6/2518 (0.2%)
34	1c	0.36	0/1572	0.82	2/2126 (0.1%)
34	2c	0.37	0/1566	0.88	4/2119 (0.2%)
35	1d	0.38	0/1685	0.87	6/2262 (0.3%)
35	2d	0.37	0/1704	0.88	4/2284 (0.2%)
36	1e	0.42	0/1145	0.86	1/1543 (0.1%)
36	2e	0.40	0/1149	0.94	2/1548 (0.1%)
37	1f	0.38	0/823	0.78	0/1115
37	2f	0.35	0/829	0.72	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.40	0/1250	0.79	1/1679 (0.1%)
38	2g	0.36	0/1254	0.83	0/1683
39	1h	0.37	0/1108	0.82	0/1494
39	2h	0.33	0/1108	0.84	2/1494 (0.1%)
40	1i	0.39	0/1002	0.87	2/1346 (0.1%)
40	2i	0.35	0/997	0.80	0/1343
41	1j	0.37	0/722	0.92	2/982 (0.2%)
41	2j	0.37	0/727	0.98	3/988 (0.3%)
42	1k	0.40	0/844	0.82	0/1145
42	2k	0.38	0/848	0.87	2/1149 (0.2%)
43	1l	0.40	0/937	0.84	2/1260 (0.2%)
43	2l	0.37	0/937	0.93	4/1260 (0.3%)
44	1m	0.37	0/969	0.83	0/1302
44	2m	0.38	0/961	0.89	2/1291 (0.2%)
45	1n	0.38	0/501	0.90	2/664 (0.3%)
45	2n	0.34	0/501	0.83	0/664
46	1o	0.36	0/739	0.77	0/985
46	2o	0.35	0/739	0.81	0/985
47	1p	0.38	0/697	0.81	3/939 (0.3%)
47	2p	0.37	0/693	0.80	0/935
48	1q	0.36	0/836	0.80	0/1117
48	2q	0.34	0/836	0.82	0/1117
49	1r	0.38	0/560	0.83	0/746
49	2r	0.36	0/560	0.76	0/746
50	1s	0.36	0/667	0.86	0/900
50	2s	0.42	0/661	0.99	4/893 (0.4%)
51	1t	0.37	0/730	0.83	0/965
51	2t	0.36	0/729	0.83	2/965 (0.2%)
52	1u	0.32	0/203	0.72	0/266
52	2u	0.32	0/203	0.83	0/266
53	1v	0.19	0/310	0.36	0/480
53	2v	0.18	0/310	0.27	0/480
54	1w	0.27	1/1606 (0.1%)	0.43	0/2497
54	1y	0.24	1/1606 (0.1%)	0.38	0/2497
54	2w	0.27	1/1556 (0.1%)	0.39	0/2418
54	2y	0.27	0/1583	0.42	0/2459
55	1x	0.27	0/1725	0.42	0/2689
55	2x	0.25	1/1725 (0.1%)	0.38	0/2689
All	All	0.30	4/316668 (0.0%)	0.56	163/474091 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	8	4SU	O3'-P	5.27	1.61	1.56
54	1w	8	4SU	O3'-P	5.20	1.61	1.56
54	1y	8	4SU	O3'-P	5.15	1.61	1.56
55	2x	8	4SU	O3'-P	5.00	1.61	1.56

All (163) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	20	82	ARG	CA-C-N	8.44	128.47	119.78
22	20	82	ARG	C-N-CA	8.44	128.47	119.78
7	2H	11	VAL	CA-C-N	8.01	128.49	119.92
7	2H	11	VAL	C-N-CA	8.01	128.49	119.92
9	2N	10	GLU	CA-C-N	7.40	127.33	119.85
9	2N	10	GLU	C-N-CA	7.40	127.33	119.85
21	2Z	133	ILE	N-CA-C	7.36	114.25	107.56
45	1n	13	THR	CA-C-N	7.05	126.97	119.85
45	1n	13	THR	C-N-CA	7.05	126.97	119.85
34	1c	72	LYS	CA-C-N	7.05	126.75	119.56
34	1c	72	LYS	C-N-CA	7.05	126.75	119.56
43	2l	119	LYS	N-CA-C	-7.02	101.26	110.53
3	2D	244	ARG	CA-C-N	-6.82	113.36	120.38
3	2D	244	ARG	C-N-CA	-6.82	113.36	120.38
35	2d	171	GLY	CA-C-N	6.76	126.56	119.05
35	2d	171	GLY	C-N-CA	6.76	126.56	119.05
22	10	13	GLY	N-CA-C	6.69	122.03	114.67
26	24	28	LYS	CA-C-N	6.69	126.47	119.05
26	24	28	LYS	C-N-CA	6.69	126.47	119.05
18	1W	13	SER	CA-C-N	6.54	126.04	119.24
18	1W	13	SER	C-N-CA	6.54	126.04	119.24
40	1i	89	ASN	CA-C-N	6.46	126.14	119.56
40	1i	89	ASN	C-N-CA	6.46	126.14	119.56
6	1G	96	ARG	CB-CA-C	-6.39	109.19	116.54
33	1b	193	ASP	CA-C-N	6.36	125.85	119.24
33	1b	193	ASP	C-N-CA	6.36	125.85	119.24
41	2j	52	GLY	CA-C-N	6.34	125.97	119.56
41	2j	52	GLY	C-N-CA	6.34	125.97	119.56
33	2b	130	ARG	CA-C-N	6.28	126.29	119.89
33	2b	130	ARG	C-N-CA	6.28	126.29	119.89
34	2c	72	LYS	CA-C-N	6.27	125.95	119.56
34	2c	72	LYS	C-N-CA	6.27	125.95	119.56
6	1G	52	ILE	N-CA-C	-6.26	106.40	112.29
11	2P	22	GLY	CA-C-N	6.21	125.42	118.97
11	2P	22	GLY	C-N-CA	6.21	125.42	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2Z	53	ILE	N-CA-C	-6.16	106.76	112.43
26	14	28	LYS	CA-C-N	6.15	125.88	119.05
26	14	28	LYS	C-N-CA	6.15	125.88	119.05
5	2F	21	ALA	CA-C-N	6.14	132.76	121.70
5	2F	21	ALA	C-N-CA	6.14	132.76	121.70
1	1A	2014	G	C2'-C3'-O3'	6.14	118.71	109.50
33	2b	193	ASP	CA-C-N	6.12	125.60	119.24
33	2b	193	ASP	C-N-CA	6.12	125.60	119.24
44	2m	112	GLY	CA-C-N	6.07	126.08	119.89
44	2m	112	GLY	C-N-CA	6.07	126.08	119.89
7	2H	38	SER	CA-C-N	6.05	125.74	119.56
7	2H	38	SER	C-N-CA	6.05	125.74	119.56
43	2l	28	LYS	N-CA-C	6.03	118.55	111.02
11	2P	44	GLY	CA-C-N	6.01	132.53	121.70
11	2P	44	GLY	C-N-CA	6.01	132.53	121.70
33	1b	128	GLU	N-CA-C	-5.95	105.79	113.16
21	2Z	52	SER	CB-CA-C	-5.93	109.72	116.54
26	14	40	HIS	CA-C-N	5.93	127.25	119.84
26	14	40	HIS	C-N-CA	5.93	127.25	119.84
16	2U	9	VAL	N-CA-C	5.92	116.10	110.53
11	2P	44	GLY	N-CA-C	-5.91	101.93	112.22
1	2A	1992	G	C2'-C3'-O3'	5.91	118.36	109.50
35	2d	135	LEU	CA-C-N	5.91	126.32	119.47
35	2d	135	LEU	C-N-CA	5.91	126.32	119.47
4	1E	190	GLY	CA-C-N	5.90	125.87	120.03
4	1E	190	GLY	C-N-CA	5.90	125.87	120.03
35	1d	171	GLY	CA-C-N	5.88	125.58	119.05
35	1d	171	GLY	C-N-CA	5.88	125.58	119.05
26	14	65	ASP	N-CA-C	-5.84	106.06	112.72
26	24	40	HIS	CA-C-N	5.84	127.14	119.84
26	24	40	HIS	C-N-CA	5.84	127.14	119.84
33	1b	156	LYS	N-CA-C	-5.82	107.41	114.75
16	1U	9	VAL	N-CA-C	5.81	115.99	110.53
8	1I	118	LYS	CA-C-N	5.81	125.83	119.90
8	1I	118	LYS	C-N-CA	5.81	125.83	119.90
11	1P	22	GLY	CA-C-N	5.81	125.01	118.97
11	1P	22	GLY	C-N-CA	5.81	125.01	118.97
35	1d	135	LEU	CA-C-N	5.74	126.12	119.47
35	1d	135	LEU	C-N-CA	5.74	126.12	119.47
7	1H	167	GLU	CA-C-N	5.72	125.66	119.76
7	1H	167	GLU	C-N-CA	5.72	125.66	119.76
11	2P	40	SER	N-CA-C	-5.72	106.31	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	1H	54	ARG	CA-C-N	5.71	125.33	119.56
7	1H	54	ARG	C-N-CA	5.71	125.33	119.56
33	2b	158	LEU	CA-C-N	5.71	125.72	119.89
33	2b	158	LEU	C-N-CA	5.71	125.72	119.89
21	1Z	158	PRO	CA-C-N	5.67	126.93	119.84
21	1Z	158	PRO	C-N-CA	5.67	126.93	119.84
41	1j	90	LEU	CA-C-N	5.65	126.91	119.84
41	1j	90	LEU	C-N-CA	5.65	126.91	119.84
3	1D	28	GLU	CA-C-N	5.64	125.96	119.92
3	1D	28	GLU	C-N-CA	5.64	125.96	119.92
9	2N	125	GLY	CA-C-N	5.62	125.24	119.56
9	2N	125	GLY	C-N-CA	5.62	125.24	119.56
8	2I	110	ASP	CA-C-N	5.59	126.83	119.84
8	2I	110	ASP	C-N-CA	5.59	126.83	119.84
7	1H	9	ILE	N-CA-C	5.57	113.06	107.55
43	2l	105	TYR	CB-CA-C	-5.55	110.16	116.54
42	2k	38	ASN	CA-C-N	5.55	125.56	119.90
42	2k	38	ASN	C-N-CA	5.55	125.56	119.90
50	2s	82	GLY	N-CA-C	5.53	119.91	112.17
8	1I	110	ASP	CA-C-N	5.51	125.34	119.28
8	1I	110	ASP	C-N-CA	5.51	125.34	119.28
5	2F	170	LEU	CA-C-N	5.49	125.31	119.28
5	2F	170	LEU	C-N-CA	5.49	125.31	119.28
28	26	40	CYS	CA-C-N	5.49	125.16	119.56
28	26	40	CYS	C-N-CA	5.49	125.16	119.56
36	1e	98	THR	N-CA-C	5.46	117.04	111.14
9	2N	110	GLY	CA-C-N	5.46	124.92	119.24
9	2N	110	GLY	C-N-CA	5.46	124.92	119.24
51	2t	11	SER	N-CA-C	-5.46	106.21	112.92
21	2Z	14	LYS	CA-C-N	5.45	125.10	119.05
21	2Z	14	LYS	C-N-CA	5.45	125.10	119.05
21	1Z	166	SER	CA-C-N	5.44	126.64	119.84
21	1Z	166	SER	C-N-CA	5.44	126.64	119.84
33	1b	38	GLY	N-CA-C	-5.44	107.27	115.32
20	2Y	91	GLU	N-CA-C	-5.44	106.60	113.18
20	2Y	31	LEU	CA-C-N	5.37	125.01	119.05
20	2Y	31	LEU	C-N-CA	5.37	125.01	119.05
33	1b	123	ALA	N-CA-C	-5.37	106.77	113.15
13	2R	38	VAL	CB-CA-C	-5.34	108.69	114.35
34	2c	48	TYR	N-CA-C	-5.31	105.67	111.82
36	2e	127	ASN	CA-C-N	5.30	125.36	119.32
36	2e	127	ASN	C-N-CA	5.30	125.36	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	2c	125	GLU	N-CA-C	-5.28	106.79	113.18
38	1g	114	ARG	N-CA-C	5.27	117.10	111.36
33	1b	158	LEU	CA-C-N	5.27	125.26	119.89
33	1b	158	LEU	C-N-CA	5.27	125.26	119.89
11	2P	43	GLY	N-CA-C	5.27	121.00	114.37
50	2s	58	VAL	N-CA-C	5.24	113.06	107.76
5	2F	9	ILE	N-CA-C	5.24	113.64	107.77
1	1A	2701	U	C4'-C3'-O3'	5.24	117.26	109.40
6	1G	121	ASN	CA-C-N	5.23	124.90	119.56
6	1G	121	ASN	C-N-CA	5.23	124.90	119.56
41	2j	44	VAL	N-CA-C	5.22	115.48	108.17
11	1P	44	GLY	N-CA-C	5.20	121.27	112.22
29	17	6	GLN	CA-C-N	5.18	125.10	119.76
29	17	6	GLN	C-N-CA	5.18	125.10	119.76
43	2l	121	GLY	N-CA-C	5.18	121.92	114.10
6	1G	127	GLY	N-CA-C	-5.17	108.20	114.92
39	2h	4	ASP	CA-C-N	5.16	125.20	119.32
39	2h	4	ASP	C-N-CA	5.16	125.20	119.32
26	14	62	ARG	CB-CA-C	-5.14	109.67	115.79
50	2s	41	VAL	CA-C-N	5.14	126.26	119.84
50	2s	41	VAL	C-N-CA	5.14	126.26	119.84
6	2G	48	GLU	N-CA-C	-5.13	107.67	114.04
21	2Z	126	VAL	N-CA-C	5.13	115.12	108.35
35	1d	4	TYR	N-CA-C	5.12	116.87	111.28
47	1p	5	ARG	N-CA-C	5.11	116.57	108.96
51	2t	99	LEU	CB-CA-C	-5.11	110.28	117.23
4	2E	85	ASN	CA-C-N	5.10	125.01	119.76
4	2E	85	ASN	C-N-CA	5.10	125.01	119.76
47	1p	40	ASP	CA-C-N	5.09	124.75	119.56
47	1p	40	ASP	C-N-CA	5.09	124.75	119.56
21	1Z	157	LEU	CA-C-N	5.06	125.59	120.38
21	1Z	157	LEU	C-N-CA	5.06	125.59	120.38
7	2H	4	ILE	N-CA-C	5.06	116.48	111.67
21	1Z	52	SER	CB-CA-C	-5.06	110.72	116.54
43	1l	44	THR	CA-C-N	5.06	125.26	120.31
43	1l	44	THR	C-N-CA	5.06	125.26	120.31
3	1D	120	GLY	CA-C-N	5.05	125.08	119.32
3	1D	120	GLY	C-N-CA	5.05	125.08	119.32
19	1X	94	GLY	CA-C-N	5.04	130.78	121.70
19	1X	94	GLY	C-N-CA	5.04	130.78	121.70
21	1Z	129	SER	CA-C-N	5.04	124.65	119.05
21	1Z	129	SER	C-N-CA	5.04	124.65	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	1Z	29	TYR	N-CA-C	5.03	116.72	109.07
35	1d	110	PHE	N-CA-C	-5.03	106.41	112.54

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61852	0	31191	642	0
1	2A	60322	0	30423	832	0
2	1B	2577	0	1305	22	0
2	2B	2575	0	1303	46	0
3	1D	2136	0	2218	47	0
3	2D	2136	0	2218	58	0
4	1E	1559	0	1618	31	0
4	2E	1559	0	1618	31	0
5	1F	1584	0	1625	42	0
5	2F	1580	0	1619	49	0
6	1G	1423	0	1436	28	0
6	2G	1428	0	1438	40	0
7	1H	1321	0	1394	23	0
7	2H	1321	0	1394	41	0
8	1I	1097	0	1140	26	0
8	2I	1064	0	1082	22	0
9	1N	1117	0	1184	13	0
9	2N	1117	0	1184	25	0
10	1O	933	0	996	13	0
10	2O	933	0	996	18	0
11	1P	1135	0	1212	23	0
11	2P	1135	0	1212	37	0
12	1Q	1122	0	1179	17	0
12	2Q	1122	0	1179	46	0
13	1R	968	0	1033	21	0
13	2R	968	0	1033	17	0
14	1S	873	0	927	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	2S	870	0	923	22	0
15	1T	1091	0	1151	19	0
15	2T	1083	0	1136	19	0
16	1U	959	0	1019	13	0
16	2U	959	0	1018	18	0
17	1V	771	0	830	11	0
17	2V	771	0	830	18	0
18	1W	886	0	940	15	0
18	2W	886	0	940	13	0
19	1X	750	0	814	12	0
19	2X	750	0	814	16	0
20	1Y	806	0	881	16	0
20	2Y	806	0	881	14	0
21	1Z	1240	0	1240	19	0
21	2Z	1271	0	1273	35	0
22	10	653	0	674	23	0
22	20	653	0	674	16	0
23	11	755	0	826	11	0
23	21	755	0	826	18	0
24	12	588	0	643	11	0
24	22	588	0	643	9	0
25	13	469	0	518	4	0
25	23	464	0	514	8	0
26	14	552	0	533	21	0
26	24	532	0	503	23	0
27	15	455	0	465	8	0
27	25	455	0	465	10	0
28	16	453	0	473	6	0
28	26	449	0	469	7	0
29	17	418	0	467	5	0
29	27	418	0	467	16	0
30	18	517	0	582	23	0
30	28	517	0	582	17	0
31	19	307	0	335	2	0
31	29	307	0	335	8	0
32	1a	32246	0	16296	404	0
32	2a	32327	0	16338	503	0
33	1b	1846	0	1867	66	0
33	2b	1825	0	1828	59	0
34	1c	1548	0	1535	28	0
34	2c	1542	0	1517	41	0
35	1d	1655	0	1672	53	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
35	2d	1674	0	1714	42	0
36	1e	1129	0	1185	25	0
36	2e	1133	0	1191	26	0
37	1f	810	0	804	12	0
37	2f	816	0	808	16	0
38	1g	1231	0	1238	19	0
38	2g	1235	0	1249	21	0
39	1h	1088	0	1126	22	0
39	2h	1088	0	1126	19	0
40	1i	983	0	986	26	0
40	2i	978	0	966	46	0
41	1j	709	0	650	25	0
41	2j	714	0	672	26	0
42	1k	829	0	825	9	0
42	2k	833	0	836	13	0
43	1l	932	0	981	19	0
43	2l	932	0	981	22	0
44	1m	958	0	1002	24	0
44	2m	950	0	988	40	0
45	1n	492	0	529	21	0
45	2n	492	0	529	19	0
46	1o	728	0	760	10	0
46	2o	728	0	760	12	0
47	1p	681	0	697	20	0
47	2p	677	0	686	24	0
48	1q	823	0	891	16	0
48	2q	823	0	891	12	0
49	1r	555	0	618	7	0
49	2r	555	0	618	16	0
50	1s	652	0	662	18	0
50	2s	646	0	644	30	0
51	1t	728	0	798	17	0
51	2t	727	0	796	7	0
52	1u	199	0	208	4	0
52	2u	199	0	208	4	0
53	1v	277	0	140	1	0
53	2v	277	0	140	3	0
54	1w	1592	0	819	31	0
54	1y	1585	0	804	39	0
54	2w	1544	0	788	48	0
54	2y	1565	0	795	46	0
55	1x	1625	0	829	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	2x	1625	0	828	30	0
56	10	7	0	0	0	0
56	11	3	0	0	0	0
56	12	2	0	0	0	0
56	13	2	0	0	0	0
56	15	4	0	0	0	0
56	16	2	0	0	0	0
56	17	4	0	0	0	0
56	18	3	0	0	0	0
56	19	2	0	0	0	0
56	1A	1254	0	0	0	0
56	1B	36	0	0	0	0
56	1D	12	0	0	0	0
56	1E	13	0	0	0	0
56	1F	10	0	0	0	0
56	1G	5	0	0	0	0
56	1H	1	0	0	0	0
56	1I	1	0	0	0	0
56	1N	7	0	0	0	0
56	1O	5	0	0	0	0
56	1P	3	0	0	0	0
56	1Q	5	0	0	0	0
56	1R	3	0	0	0	0
56	1S	3	0	0	0	0
56	1T	2	0	0	0	0
56	1U	6	0	0	0	0
56	1V	2	0	0	0	0
56	1W	6	0	0	0	0
56	1X	6	0	0	0	0
56	1Y	2	0	0	0	0
56	1Z	3	0	0	0	0
56	1a	330	0	0	0	0
56	1b	2	0	0	0	0
56	1c	2	0	0	0	0
56	1d	1	0	0	0	0
56	1e	2	0	0	0	0
56	1f	2	0	0	0	0
56	1l	4	0	0	0	0
56	1m	1	0	0	0	0
56	1n	1	0	0	0	0
56	1s	1	0	0	0	0
56	1t	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	1v	1	0	0	0	0
56	1w	11	0	0	0	0
56	1x	18	0	0	0	0
56	1y	5	0	0	0	0
56	20	3	0	0	0	0
56	23	3	0	0	0	0
56	25	4	0	0	0	0
56	27	1	0	0	0	0
56	28	3	0	0	0	0
56	2A	919	0	0	0	0
56	2B	21	0	0	0	0
56	2D	3	0	0	0	0
56	2E	8	0	0	0	0
56	2F	4	0	0	0	0
56	2G	1	0	0	0	0
56	2N	1	0	0	0	0
56	2O	1	0	0	0	0
56	2P	2	0	0	0	0
56	2Q	3	0	0	0	0
56	2R	2	0	0	0	0
56	2T	1	0	0	0	0
56	2U	6	0	0	0	0
56	2V	1	0	0	0	0
56	2W	4	0	0	0	0
56	2X	2	0	0	0	0
56	2Z	1	0	0	0	0
56	2a	236	0	0	0	0
56	2d	1	0	0	0	0
56	2e	1	0	0	0	0
56	2f	2	0	0	0	0
56	2g	1	0	0	0	0
56	2j	2	0	0	0	0
56	2l	4	0	0	0	0
56	2n	1	0	0	0	0
56	2p	1	0	0	0	0
56	2q	4	0	0	0	0
56	2r	1	0	0	0	0
56	2t	1	0	0	0	0
56	2v	6	0	0	0	0
56	2w	7	0	0	0	0
56	2x	6	0	0	0	0
56	2y	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	1A	8	0	0	1	0
57	1I	4	0	0	0	0
57	1a	4	0	0	1	0
57	2A	8	0	0	1	0
57	2I	4	0	0	1	0
57	2a	4	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
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	12	0	0	1	0
61	11	14	0	0	0	0
61	12	3	0	0	0	0
61	13	5	0	0	0	0
61	14	1	0	0	0	0
61	15	7	0	0	0	0
61	16	2	0	0	0	0
61	17	7	0	0	0	0
61	18	10	0	0	1	0
61	1A	2273	0	0	112	0
61	1B	70	0	0	2	0
61	1D	28	0	0	0	0
61	1E	27	0	0	4	0
61	1F	15	0	0	0	0
61	1G	7	0	0	0	0
61	1H	1	0	0	0	0
61	1I	1	0	0	0	0
61	1N	3	0	0	0	0
61	1O	6	0	0	0	0
61	1P	23	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	1Q	12	0	0	0	0
61	1R	15	0	0	1	0
61	1S	5	0	0	0	0
61	1T	10	0	0	1	0
61	1U	16	0	0	0	0
61	1V	11	0	0	0	0
61	1W	13	0	0	2	0
61	1X	6	0	0	0	0
61	1Y	5	0	0	0	0
61	1Z	1	0	0	0	0
61	1a	520	0	0	43	0
61	1b	1	0	0	0	0
61	1d	2	0	0	0	0
61	1e	1	0	0	0	0
61	1g	2	0	0	1	0
61	1i	1	0	0	0	0
61	1l	10	0	0	0	0
61	1m	2	0	0	0	0
61	1n	1	0	0	1	0
61	1o	2	0	0	0	0
61	1p	2	0	0	0	0
61	1q	3	0	0	0	0
61	1u	1	0	0	1	0
61	1v	5	0	0	0	0
61	1w	19	0	0	1	0
61	1x	15	0	0	0	0
61	1y	2	0	0	0	0
61	20	4	0	0	0	0
61	21	11	0	0	0	0
61	22	1	0	0	0	0
61	23	1	0	0	0	0
61	25	3	0	0	0	0
61	27	3	0	0	0	0
61	28	4	0	0	0	0
61	29	1	0	0	0	0
61	2A	1393	0	0	98	0
61	2B	28	0	0	0	0
61	2D	29	0	0	0	0
61	2E	18	0	0	0	0
61	2F	17	0	0	0	0
61	2I	4	0	0	0	0
61	2N	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	2O	1	0	0	0	0
61	2P	16	0	0	2	0
61	2Q	2	0	0	0	0
61	2R	2	0	0	0	0
61	2T	7	0	0	0	0
61	2U	3	0	0	0	0
61	2V	2	0	0	0	0
61	2W	4	0	0	0	0
61	2X	2	0	0	0	0
61	2Y	1	0	0	0	0
61	2Z	2	0	0	0	0
61	2a	373	0	0	27	0
61	2d	2	0	0	0	0
61	2e	2	0	0	0	0
61	2g	1	0	0	0	0
61	2i	1	0	0	0	0
61	2j	4	0	0	1	0
61	2l	6	0	0	1	0
61	2p	1	0	0	0	0
61	2q	1	0	0	0	0
61	2r	1	0	0	0	0
61	2t	4	0	0	0	0
61	2v	2	0	0	0	0
61	2w	3	0	0	0	0
61	2x	9	0	0	2	0
61	2y	20	0	0	1	0
All	All	301288	0	196660	4103	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 9.

All (4103) 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)
54:1w:6:G:H1	54:1w:67:C:N4	1.43	1.15
32:2a:1399:C:H4'	32:2a:1400:5MC:H5'	1.32	1.12
32:2a:997:U:H3	32:2a:1044:A:N6	1.49	1.10
1:2A:2138:C:N4	1:2A:2153:G:H1	1.49	1.10
54:1w:2:C:N4	54:1w:71:G:H1	1.56	1.02
1:1A:1740:U:H1'	3:1D:14:ARG:HH22	1.24	1.02
32:2a:1030:C:N4	32:2a:1031:G:H1	1.58	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2149:G:H1	1:1A:2183:C:N4	1.56	1.01
54:2w:52:G:H1	54:2w:62:C:N4	1.60	0.98
32:2a:79:G:H1	32:2a:90:U:H3	1.07	0.98
1:1A:2146:G:H1	1:1A:2196:C:H42	0.99	0.98
54:1w:7:A:N6	54:1w:66:U:H3	1.60	0.98
55:1x:4:G:H1	55:1x:69:C:N4	1.62	0.97
10:2O:48:PRO:HB3	32:2a:1422:G:H5''	1.47	0.97
32:2a:1002:G:H1	32:2a:1038:C:N4	1.63	0.96
1:1A:2331:G:H22	14:1S:3:ARG:HD3	1.29	0.96
1:2A:83:G:H1	1:2A:102:G:HO2'	1.11	0.96
3:2D:242:ARG:HH11	3:2D:242:ARG:HG3	1.28	0.96
1:2A:2138:C:H42	1:2A:2153:G:H1	1.00	0.95
54:2y:26:A:N1	54:2y:44:G:C6	2.36	0.94
1:1A:1105:G:H1	1:1A:1125:C:H42	1.15	0.94
1:1A:2146:G:H1	1:1A:2196:C:N4	1.66	0.94
54:1y:19:G:N2	54:1y:56:C:N3	2.16	0.94
1:1A:2121:U:H3	1:1A:2212:G:H1	1.16	0.93
1:2A:2121:G:H1	1:2A:2177:C:H42	1.09	0.93
1:1A:1128:U:H3	1:1A:1132:A:N6	1.65	0.93
1:1A:1101:G:H1	1:1A:1150:C:H42	1.11	0.93
1:2A:2129:C:H42	1:2A:2159:G:H1	1.07	0.93
32:1a:998:G:H1	32:1a:1043:C:H42	1.02	0.92
1:2A:2138:C:N3	1:2A:2153:G:N2	2.16	0.92
3:1D:242:ARG:HG3	3:1D:242:ARG:HH11	1.31	0.92
1:1A:2149:G:H1	1:1A:2183:C:H42	0.93	0.92
1:1A:2439:C:OP1	61:1A:4301:HOH:O	1.86	0.92
22:10:10:THR:HG22	22:10:12:ASN:H	1.31	0.92
12:2Q:12:GLN:HE21	12:2Q:72:LYS:HG3	1.34	0.91
54:1w:7:A:H61	54:1w:66:U:H3	0.91	0.91
1:2A:2127:G:C6	1:2A:2161:C:N4	2.39	0.90
32:2a:1264:C:H42	32:2a:1271:G:H1	1.18	0.90
1:1A:656:A:OP1	11:1P:65:ARG:NH1	2.05	0.90
1:1A:1117:G:O6	1:1A:1146:C:N4	2.03	0.89
20:1Y:92:ASN:HB3	20:1Y:94:LYS:H	1.38	0.88
1:1A:1649:A:OP1	61:1A:4302:HOH:O	1.91	0.88
22:20:10:THR:HG22	22:20:12:ASN:H	1.38	0.88
32:2a:363:A:OP2	43:2l:34:ARG:NH1	2.07	0.88
10:2O:35:VAL:HG11	10:2O:103:ALA:HB3	1.56	0.88
1:1A:1128:U:O4	1:1A:1132:A:N1	2.07	0.88
30:18:6:THR:HG22	30:18:63:PRO:HD2	1.55	0.88
54:1w:6:G:N2	54:1w:67:C:N3	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2157:A:H5'	1:1A:2182:G:H4'	1.56	0.87
55:1x:4:G:H1	55:1x:69:C:H42	0.88	0.87
32:1a:998:G:H1	32:1a:1043:C:N4	1.73	0.87
1:1A:839:G:O6	61:1A:4303:HOH:O	1.92	0.86
54:2y:18:G:N2	54:2y:55:PSU:N3	2.23	0.86
54:2w:52:G:H1	54:2w:62:C:H42	0.87	0.86
32:1a:664:G:H22	32:1a:741:G:H1	1.21	0.86
54:2w:50:U:H3	54:2w:64:A:H61	1.19	0.85
1:1A:1111:U:O2	1:1A:1119:A:N6	2.09	0.85
54:2y:5:G:H1	54:2y:68:C:H42	1.25	0.85
32:2a:1002:G:H1	32:2a:1038:C:H42	0.89	0.85
1:1A:2158:C:N3	1:1A:2177:G:N2	2.25	0.84
5:1F:188:ARG:HA	11:1P:3:LEU:HD11	1.59	0.84
32:2a:1030(A):G:N2	32:2a:1030(D):A:OP2	2.10	0.84
1:1A:1108:G:H1	1:1A:1123:A:H61	1.18	0.84
1:2A:2127:G:N1	1:2A:2161:C:C4	2.45	0.84
1:1A:1357:G:O6	61:1A:4305:HOH:O	1.95	0.84
1:1A:931:C:H42	1:1A:938:G:H1	1.24	0.84
40:2i:9:ARG:HG2	40:2i:14:VAL:HG12	1.57	0.84
1:2A:583:G:N7	61:2A:4019:HOH:O	2.10	0.84
1:1A:1104:G:H1	1:1A:1126:C:H42	1.22	0.83
44:2m:82:MET:O	44:2m:93:ARG:NH2	2.11	0.83
1:2A:1171:G:H1	1:2A:1178:C:H42	1.26	0.83
1:2A:1689:A:H62	1:2A:1698:A:H2	1.22	0.83
32:2a:201:C:H42	32:2a:216:G:H1	1.26	0.83
54:2y:18:G:H22	54:2y:55:PSU:HN3	1.26	0.83
1:2A:2129:C:N4	1:2A:2159:G:H1	1.76	0.83
1:1A:2124:U:H3	1:1A:2209:G:H1	1.26	0.83
32:1a:376:G:H5''	47:1p:5:ARG:HG2	1.59	0.83
1:2A:1204:A:H2	1:2A:1241:A:H62	1.23	0.83
32:2a:1030:C:H42	32:2a:1031:G:H1	1.22	0.83
1:1A:537:G:N7	61:1A:4324:HOH:O	2.10	0.83
1:1A:2367:C:H1'	22:10:39:ARG:HH21	1.44	0.83
1:1A:2511:C:OP1	61:1A:4304:HOH:O	1.94	0.83
5:1F:108:LYS:HG2	5:1F:112:MET:HE2	1.59	0.83
54:1w:18:G:O2'	54:1w:57:G:N2	2.12	0.82
32:2a:1237:C:O2'	32:2a:1300:G:N2	2.11	0.82
1:1A:2695:C:O2	10:1O:70:LYS:NZ	2.12	0.82
1:1A:1087:C:H42	1:1A:1160:G:H1	1.27	0.82
1:2A:2121:G:H1	1:2A:2177:C:N4	1.76	0.82
1:1A:873:U:OP1	61:1A:4301:HOH:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1128:U:H3	1:1A:1132:A:H61	0.86	0.82
11:1P:100:LEU:HD12	11:1P:112:LEU:HD11	1.60	0.82
11:1P:42:SER:O	61:1P:301:HOH:O	1.96	0.81
11:1P:52:GLU:OE1	11:1P:55:ARG:NH1	2.13	0.81
1:1A:1151:U:H2'	1:1A:1152:G:H8	1.43	0.81
36:1e:78:HIS:HD2	39:1h:104:ARG:HD2	1.45	0.81
2:2B:7:G:H21	14:2S:38:GLN:HE22	1.25	0.81
32:1a:1300:G:N7	61:1a:2010:HOH:O	2.13	0.81
32:2a:953:G:H5'	32:2a:965:A:H61	1.43	0.81
1:1A:1378:G:OP1	61:1A:4306:HOH:O	1.99	0.81
2:2B:22:U:H3	2:2B:61:G:H1	1.29	0.81
32:2a:559:A:H4'	32:2a:560:U:H3'	1.63	0.81
1:2A:2099:U:H3	1:2A:2190:G:H1	1.28	0.81
4:1E:28:ALA:HB3	4:1E:93:VAL:HG12	1.63	0.80
32:1a:407:G:H5''	35:1d:115:ARG:HG2	1.62	0.80
1:2A:1670:C:OP1	61:2A:4002:HOH:O	1.99	0.80
1:2A:2127:G:C2	1:2A:2161:C:N3	2.50	0.80
54:1w:2:C:N3	54:1w:71:G:N2	2.30	0.80
1:2A:568:U:O4	61:2A:4001:HOH:O	1.98	0.80
32:2a:943:U:H1'	40:2i:124:GLN:HE22	1.46	0.80
32:2a:1060:C:H5''	41:2j:51:ARG:HG2	1.64	0.79
1:1A:2158:C:N4	1:1A:2177:G:N1	2.27	0.79
1:2A:2499:C:OP2	61:2A:4003:HOH:O	1.99	0.79
1:2A:792:G:O6	61:2A:4004:HOH:O	1.99	0.79
1:1A:2641:A:O2'	1:1A:2642:G:OP2	2.00	0.79
54:2y:50:U:H3	54:2y:64:A:H61	1.28	0.79
1:2A:1648:C:OP1	61:2A:4005:HOH:O	2.00	0.79
1:2A:2345:G:H4'	1:2A:2346:A:H5''	1.62	0.79
32:1a:812:C:N3	61:1a:2017:HOH:O	2.15	0.79
41:1j:38:ILE:HD11	41:1j:71:LEU:HD23	1.64	0.79
32:2a:974:A:OP2	45:2n:29:ARG:NH2	2.16	0.79
32:1a:677:U:H3	32:1a:713:G:H22	1.31	0.79
1:1A:1104:G:H1	1:1A:1126:C:N4	1.80	0.79
32:1a:789:U:O2'	57:1a:1930:CPT:N1	2.17	0.78
32:1a:1030:C:H42	32:1a:1031:G:H1	1.27	0.78
1:2A:1693:U:H1'	3:2D:14:ARG:HH22	1.49	0.78
5:2F:33:LEU:HD13	5:2F:112:MET:HE2	1.65	0.78
32:2a:1132:C:H42	32:2a:1142:G:H1	1.29	0.78
48:2q:66:SER:O	48:2q:70:ARG:NH1	2.16	0.78
1:1A:2158:C:H42	1:1A:2177:G:H1	1.28	0.78
10:1O:48:PRO:HB3	32:1a:1422:G:H5''	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:85:LYS:HG2	22:20:7:LEU:HB3	1.65	0.78
1:1A:927:G:H2'	1:1A:928:G:H8	1.49	0.78
1:1A:1740:U:H1'	3:1D:14:ARG:NH2	1.95	0.78
32:1a:1060:C:H5''	41:1j:51:ARG:HG2	1.65	0.78
1:2A:2114:A:H62	1:2A:2115:G:H21	1.29	0.78
1:1A:1101:G:H1	1:1A:1150:C:N4	1.82	0.78
26:24:53:GLU:HG2	26:24:55:ARG:H	1.47	0.78
1:2A:994:C:OP1	16:2U:53:ARG:NH2	2.16	0.78
33:2b:78:GLN:O	33:2b:94:ASN:ND2	2.18	0.77
32:1a:953:G:H5'	32:1a:965:A:H61	1.49	0.77
44:1m:3:ARG:NH2	44:1m:9:ILE:O	2.18	0.77
50:1s:27:GLU:HB2	50:1s:28:LYS:HA	1.66	0.77
32:2a:987:G:H1	32:2a:1218:C:H42	1.32	0.77
54:2y:19:G:N2	54:2y:56:C:N3	2.30	0.77
1:2A:962:G:OP1	61:2A:4006:HOH:O	2.03	0.77
44:2m:58:GLU:O	44:2m:62:ASN:ND2	2.14	0.77
5:2F:53:THR:HG23	5:2F:55:GLY:H	1.50	0.77
32:2a:35:G:O2'	43:2l:118:SER:O	2.03	0.77
32:2a:673:G:H2'	32:2a:674:G:C8	2.20	0.77
32:2a:130:A:H5'	48:2q:63:ARG:HH11	1.50	0.77
8:1I:92:VAL:HG13	8:1I:120:ILE:HB	1.67	0.77
32:1a:975:A:H4'	32:1a:976:G:H5''	1.67	0.77
1:2A:1762:A:N1	61:2A:4056:HOH:O	2.18	0.77
1:2A:2524:G:N7	61:2A:4046:HOH:O	2.16	0.76
1:1A:2165:C:N3	1:1A:2170:G:O6	2.19	0.76
1:2A:64:A:N6	1:2A:90:U:O4	2.18	0.76
1:2A:323:G:HO2'	1:2A:1205:U:H3	1.31	0.76
54:1w:2:C:H42	54:1w:71:G:H1	0.81	0.76
33:1b:118:LEU:HB3	33:1b:142:LEU:HD12	1.68	0.76
54:2w:52:G:N2	54:2w:62:C:N3	2.32	0.76
32:1a:942:G:H21	40:1i:124:GLN:HE21	1.32	0.76
1:2A:1693:U:H1'	3:2D:14:ARG:NH2	2.00	0.76
54:1y:19:G:N1	54:1y:56:C:N4	2.34	0.76
32:2a:406:G:H5'	35:2d:5:ILE:HD11	1.65	0.76
44:2m:34:LEU:HD13	44:2m:41:PRO:HB3	1.67	0.76
1:1A:990:A:OP2	61:1A:4307:HOH:O	2.02	0.76
1:1A:1105:G:H1	1:1A:1125:C:N4	1.83	0.76
32:1a:1518:MA6:N6	32:1a:1519:MA6:H103	2.00	0.76
11:2P:52:GLU:OE1	11:2P:55:ARG:NH1	2.19	0.76
32:2a:656:C:O2'	46:2o:28:GLN:NE2	2.19	0.76
1:1A:2442:A:OP1	61:1A:4309:HOH:O	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1005:A:H5''	32:2a:1006:C:C5	2.21	0.75
1:1A:2158:C:N4	1:1A:2177:G:H1	1.82	0.75
5:1F:70:THR:HG23	5:1F:72:ARG:H	1.49	0.75
32:2a:999:C:H42	32:2a:1042:G:H1	1.33	0.75
54:2w:53:G:H1	54:2w:61:C:H42	1.33	0.75
1:1A:2817:G:N1	1:1A:2902:G:O6	2.15	0.75
5:1F:53:THR:HG23	5:1F:55:GLY:H	1.52	0.75
1:1A:1100:A:H61	1:1A:1151:U:H3	1.35	0.75
1:1A:2149:G:N2	1:1A:2183:C:N3	2.33	0.75
13:1R:67:LEU:HD13	13:1R:76:VAL:HG21	1.67	0.75
1:2A:450:G:O6	61:2A:4007:HOH:O	2.04	0.75
1:1A:2015:U:OP2	61:1A:4310:HOH:O	2.05	0.75
5:2F:101:LEU:O	5:2F:106:ARG:NH1	2.20	0.75
34:2c:11:ARG:HB3	34:2c:15:THR:HB	1.66	0.75
1:1A:1069:U:OP2	61:1A:4308:HOH:O	2.03	0.74
32:1a:1401:G:N7	61:1a:2026:HOH:O	2.19	0.74
1:2A:1840:G:OP2	61:2A:4008:HOH:O	2.04	0.74
6:2G:179:PRO:HB2	26:24:42:PHE:HE2	1.52	0.74
26:24:58:ARG:HD2	50:2s:68:GLY:H	1.52	0.74
10:1O:35:VAL:HG11	10:1O:103:ALA:HB3	1.68	0.74
32:1a:407:G:OP1	35:1d:115:ARG:NH2	2.19	0.74
1:2A:2127:G:C2	1:2A:2161:C:C4	2.75	0.74
32:2a:975:A:H4'	32:2a:976:G:H5''	1.69	0.74
36:2e:100:VAL:O	36:2e:107:ARG:NH1	2.19	0.74
54:2w:14:A:H61	54:2w:21:A:H2	1.35	0.74
1:1A:880:U:O2	11:1P:55:ARG:NH2	2.20	0.74
1:1A:2440:G:OP1	61:1A:4301:HOH:O	2.05	0.74
11:1P:59:LEU:HD11	30:18:10:ALA:HB2	1.68	0.74
32:1a:800:G:O6	61:1a:2001:HOH:O	2.04	0.74
13:2R:67:LEU:HD13	13:2R:76:VAL:HG21	1.70	0.74
1:1A:1740:U:O2	3:1D:14:ARG:NH2	2.20	0.74
1:1A:2286:A:OP2	61:1A:4312:HOH:O	2.06	0.74
32:1a:1030:C:N3	32:1a:1031:G:N2	2.35	0.74
7:2H:7:LEU:HD12	7:2H:8:PRO:HD2	1.69	0.74
1:1A:2220:A:OP1	8:1I:33:ARG:NH2	2.21	0.74
1:2A:677:A:OP2	61:2A:4009:HOH:O	2.05	0.74
1:1A:1221:G:N2	1:1A:1223:C:OP2	2.20	0.74
47:1p:51:VAL:HG12	47:1p:53:VAL:H	1.52	0.73
1:2A:1031:G:H5''	31:29:8:LYS:HE3	1.68	0.73
1:2A:2630:G:N2	1:2A:2788:C:O2	2.19	0.73
32:2a:782:A:OP1	61:2a:3301:HOH:O	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1030:C:N3	32:2a:1031:G:N2	2.36	0.73
44:2m:13:LYS:HA	44:2m:44:ARG:HH11	1.53	0.73
32:1a:686:U:O2	32:1a:704:A:N6	2.17	0.73
1:2A:1356:G:OP1	61:2A:4011:HOH:O	2.06	0.73
1:1A:2288:G:N7	61:1A:4383:HOH:O	2.22	0.73
32:1a:376:G:N7	61:1a:2027:HOH:O	2.20	0.73
21:2Z:72:ARG:NH2	21:2Z:97:GLU:O	2.21	0.73
1:2A:2049:G:N7	61:2A:4070:HOH:O	2.21	0.73
11:2P:59:LEU:HD11	30:28:10:ALA:HB2	1.71	0.73
32:1a:1132:C:OP2	61:1a:2002:HOH:O	2.05	0.73
32:2a:942:G:H21	40:2i:124:GLN:HE21	1.32	0.73
49:1r:32:ARG:HA	49:1r:69:THR:HG21	1.71	0.73
1:2A:2822:G:OP2	61:2A:4012:HOH:O	2.06	0.73
32:2a:64:G:H4'	32:2a:65:U:H3'	1.71	0.73
1:1A:1128:U:N3	1:1A:1132:A:N6	2.27	0.73
1:1A:2807:C:H42	1:1A:2813:G:H22	1.37	0.73
34:1c:40:ARG:NH1	34:1c:55:VAL:O	2.22	0.73
49:2r:26:LEU:HD11	49:2r:42:ARG:HD2	1.70	0.73
32:1a:78:G:N2	32:1a:91:C:N3	2.37	0.73
1:2A:884:C:N3	1:2A:893:C:O2'	2.21	0.73
12:2Q:10:ARG:HH12	55:2x:64:G:H4'	1.53	0.73
32:2a:947:G:H1	32:2a:1234:C:H42	1.36	0.73
39:1h:10:LEU:HD22	39:1h:83:ILE:HD11	1.69	0.73
1:2A:2143:C:H42	1:2A:2148:G:H1	1.34	0.72
32:2a:158:G:N2	32:2a:163:C:O2	2.16	0.72
32:1a:652:U:OP2	61:1a:2003:HOH:O	2.06	0.72
33:1b:187:LEU:HA	33:1b:201:ILE:HB	1.71	0.72
32:2a:1004:A:N6	32:2a:1037:C:O2	2.17	0.72
54:2w:4:C:N3	54:2w:69:G:N2	2.37	0.72
1:1A:1417:G:O6	61:1A:4314:HOH:O	2.07	0.72
15:1T:112:ARG:HG3	15:1T:115:ARG:HH21	1.55	0.72
23:21:50:ARG:HG2	23:21:59:THR:HG22	1.71	0.72
32:1a:1136:U:H5''	32:1a:1137:C:C4	2.25	0.72
1:2A:1833:U:OP1	61:2A:4010:HOH:O	2.06	0.72
1:1A:2832:G:OP2	61:1A:4316:HOH:O	2.08	0.72
54:1y:50:U:O4	54:1y:64:A:N1	2.23	0.72
3:2D:125:ILE:HB	37:2f:81:ILE:HD11	1.72	0.72
8:2I:38:LEU:H	8:2I:38:LEU:HD12	1.54	0.72
33:1b:88:ALA:HB2	33:1b:219:VAL:HG13	1.71	0.72
54:1w:4:C:H2'	54:1w:5:G:H8	1.54	0.72
1:2A:2243:U:OP1	61:2A:4014:HOH:O	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:10:LEU:HD22	39:2h:83:ILE:HD11	1.70	0.72
46:2o:25:THR:HG21	46:2o:70:LEU:HB2	1.71	0.72
1:2A:1665:A:OP2	61:2A:4016:HOH:O	2.08	0.72
32:2a:1029:C:C4	32:2a:1032:G:N1	2.58	0.72
1:1A:1915:C:OP1	61:1A:4317:HOH:O	2.08	0.72
26:14:54:GLY:N	26:14:55:ARG:HA	2.05	0.72
32:1a:286:G:N7	61:1a:2033:HOH:O	2.23	0.72
43:1l:117:ARG:HG2	43:1l:122:THR:HB	1.70	0.72
4:2E:47:VAL:HG11	4:2E:86:PRO:HD2	1.71	0.71
32:2a:437:U:O2	35:2d:119:GLN:NE2	2.23	0.71
55:2x:50:U:H3	55:2x:64:G:H1	1.35	0.71
32:1a:1009:G:O6	32:1a:1020:U:O2	2.07	0.71
32:2a:1264:C:N4	32:2a:1271:G:H1	1.88	0.71
41:2j:49:VAL:HG23	45:2n:41:ARG:HB2	1.70	0.71
1:1A:1230:C:OP2	61:1A:4311:HOH:O	2.06	0.71
54:2y:19:G:H1	54:2y:56:C:H42	1.37	0.71
23:11:50:ARG:HG2	23:11:59:THR:HG22	1.72	0.71
32:1a:1505:G:OP2	61:1a:2004:HOH:O	2.07	0.71
1:1A:325:G:OP2	20:1Y:84:ARG:NH2	2.23	0.71
32:1a:559:A:H4'	32:1a:560:U:H3'	1.70	0.71
1:2A:731:C:OP2	61:2A:4013:HOH:O	2.07	0.71
32:2a:1149:C:O2'	32:2a:1280:A:N1	2.20	0.71
1:1A:542:C:OP1	27:15:16:ARG:NH2	2.24	0.71
1:1A:1588:G:O6	61:1A:4313:HOH:O	2.07	0.71
32:1a:625:G:OP2	61:1a:2005:HOH:O	2.08	0.71
33:1b:121:LEU:HD21	33:1b:130:ARG:HH22	1.54	0.71
32:2a:547:A:OP1	61:2a:3302:HOH:O	2.08	0.71
1:1A:1716:A:OP2	61:1A:4315:HOH:O	2.08	0.71
1:2A:963:U:OP2	61:2A:4006:HOH:O	2.08	0.71
21:2Z:153:SER:HB3	21:2Z:167:PRO:HB3	1.71	0.71
52:1u:5:ASP:OD2	61:1u:101:HOH:O	2.07	0.71
1:2A:2104:G:H1	1:2A:2185:C:H42	1.39	0.71
1:2A:2206:G:H3'	1:2A:2207:G:C8	2.25	0.71
54:2w:2:C:N3	54:2w:71:G:O6	2.23	0.71
1:1A:2562:G:OP1	61:1A:4315:HOH:O	2.08	0.71
33:1b:82:ARG:NH1	33:1b:92:TYR:OH	2.24	0.71
1:1A:1922:A:N7	61:1A:4384:HOH:O	2.22	0.71
1:2A:1973:G:OP1	61:2A:4017:HOH:O	2.09	0.71
17:2V:40:LEU:HB2	17:2V:46:VAL:HG22	1.73	0.71
32:2a:1086:U:H3	32:2a:1099:G:H22	1.39	0.71
32:1a:943:U:H1'	40:1i:124:GLN:HE22	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:900:A:O2'	1:2A:901:A:OP1	2.09	0.70
1:2A:1782:C:OP1	61:2A:4015:HOH:O	2.07	0.70
1:1A:1431:G:O2'	1:1A:1442:U:O2	2.09	0.70
32:1a:903:G:OP1	61:1a:2006:HOH:O	2.09	0.70
32:1a:911:U:OP2	43:1l:97:ARG:NH2	2.16	0.70
32:1a:1033:G:H2'	32:1a:1034:G:H8	1.55	0.70
1:2A:2127:G:N2	1:2A:2161:C:C2	2.59	0.70
1:2A:2882:A:OP1	13:2R:96:ARG:NH1	2.24	0.70
54:2y:55:PSU:HN1	54:2y:57:G:H5''	1.56	0.70
1:2A:1024:G:OP2	61:2A:4020:HOH:O	2.10	0.70
6:2G:11:TYR:CZ	6:2G:16:ARG:HD3	2.26	0.70
32:2a:266:G:H5''	32:2a:268:C:H41	1.56	0.70
46:2o:54:ARG:HG2	46:2o:58:MET:HE2	1.71	0.70
49:2r:32:ARG:HA	49:2r:69:THR:HG21	1.71	0.70
54:2w:8:4SU:H1'	54:2w:48:C:H1'	1.73	0.70
1:1A:181:C:OP1	61:1A:4320:HOH:O	2.09	0.70
1:1A:1347:A:OP1	61:1A:4318:HOH:O	2.08	0.70
33:1b:84:GLU:HB3	33:1b:219:VAL:HG21	1.73	0.70
32:2a:426:G:OP1	35:2d:38:TYR:OH	2.10	0.70
1:1A:99:G:H21	24:12:7:ARG:HH22	1.39	0.70
1:1A:2143:G:H1	1:1A:2199:C:H42	1.39	0.70
32:1a:567:G:N3	61:1a:2036:HOH:O	2.24	0.70
32:1a:1047:G:H5''	45:1n:4:LYS:HD3	1.72	0.70
1:2A:852:G:H2'	1:2A:853:G:H8	1.56	0.70
32:2a:542:G:OP1	35:2d:10:ARG:NH2	2.23	0.70
32:2a:1002:G:N2	32:2a:1038:C:N3	2.37	0.70
50:2s:30:LEU:HD11	50:2s:50:ALA:HB2	1.74	0.70
54:2w:50:U:H3	54:2w:64:A:N6	1.88	0.70
32:1a:78:G:N1	32:1a:91:C:N4	2.39	0.70
1:2A:880:G:H22	1:2A:898:C:H1'	1.56	0.70
1:2A:2285:C:OP2	28:26:6:ARG:NH1	2.24	0.70
1:1A:2831:A:OP2	61:1A:4316:HOH:O	2.09	0.70
1:2A:2042:A:OP1	61:2A:4022:HOH:O	2.10	0.70
23:21:51:VAL:HG11	23:21:74:VAL:HG21	1.72	0.70
32:2a:1360:A:OP2	45:2n:35:ARG:NH2	2.25	0.70
1:1A:1700:G:H3'	13:1R:2:ARG:HD3	1.74	0.70
32:1a:36:C:OP1	43:1l:123:LYS:NZ	2.23	0.70
38:1g:78:ARG:NH1	38:1g:154:TYR:O	2.25	0.70
1:2A:1566:A:OP1	3:2D:211:ARG:NH1	2.25	0.70
1:2A:1604:C:OP1	61:2A:4018:HOH:O	2.09	0.70
1:1A:71:U:OP1	61:1A:4319:HOH:O	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1814:A:N7	61:1A:4403:HOH:O	2.25	0.69
33:1b:69:LEU:HB3	33:1b:162:ILE:HG22	1.74	0.69
32:2a:983:A:N1	32:2a:1222:G:N2	2.40	0.69
32:2a:559:A:OP1	36:2e:126:ARG:NH2	2.26	0.69
39:2h:14:ARG:HG2	39:2h:18:ARG:HH22	1.57	0.69
32:2a:677:U:H3	32:2a:713:G:H22	1.40	0.69
32:2a:864:A:OP2	61:2a:3304:HOH:O	2.10	0.69
1:1A:1832:G:OP2	3:1D:154:LYS:NZ	2.25	0.69
1:1A:2495:C:N3	12:1Q:124:LYS:NZ	2.40	0.69
1:2A:863:A:H2'	1:2A:864:G:H8	1.57	0.69
1:1A:646:A:OP2	11:1P:108:LYS:NZ	2.22	0.69
1:1A:1809:U:OP1	61:1A:4325:HOH:O	2.10	0.69
32:1a:510:A:OP2	35:1d:49:ARG:NH1	2.26	0.69
1:2A:2646:C:OP2	1:2A:2732:G:O2'	2.10	0.69
32:2a:927:G:O2'	61:2a:3303:HOH:O	2.09	0.69
32:1a:1353:G:OP1	52:1u:10:ARG:NH1	2.26	0.69
32:2a:1417:G:O6	61:2a:3305:HOH:O	2.11	0.69
1:1A:1055:A:OP2	9:1N:37:LYS:NZ	2.23	0.69
1:1A:2146:G:N2	1:1A:2196:C:N3	2.38	0.69
1:1A:2604:G:OP1	61:1A:4323:HOH:O	2.10	0.69
32:1a:753:A:OP2	61:1a:2007:HOH:O	2.10	0.69
38:1g:50:ILE:HD13	38:1g:125:MET:HG2	1.73	0.69
1:2A:1346:G:OP2	61:2A:4023:HOH:O	2.10	0.69
1:2A:1420:U:O2'	1:2A:1421:G:OP1	2.11	0.69
1:2A:2677:G:N3	61:2A:4092:HOH:O	2.25	0.69
32:2a:1271:G:N1	32:2a:1272:G:O6	2.25	0.69
40:1i:17:VAL:HG23	40:1i:63:ILE:HG12	1.75	0.69
32:2a:117:G:OP2	61:2a:3309:HOH:O	2.11	0.69
1:1A:1361:C:OP2	61:1A:4306:HOH:O	2.11	0.69
32:1a:974:A:OP2	45:1n:29:ARG:NH2	2.26	0.69
47:1p:19:ILE:HG23	47:1p:36:ILE:HG13	1.73	0.69
1:2A:2518:A:OP2	61:2A:4028:HOH:O	2.11	0.69
1:2A:2807:G:N1	1:2A:2893:G:O6	2.17	0.69
9:2N:128:HIS:O	9:2N:131:GLN:NE2	2.26	0.69
1:2A:317:G:O6	61:2A:4024:HOH:O	2.11	0.68
32:2a:770:C:OP1	61:2a:3307:HOH:O	2.11	0.68
1:1A:1694:G:OP1	61:1A:4326:HOH:O	2.10	0.68
1:1A:2801:C:OP1	4:1E:61:ARG:NH2	2.26	0.68
32:2a:407:G:H5''	35:2d:115:ARG:HG2	1.75	0.68
55:2x:76:A:OP1	61:2x:201:HOH:O	2.11	0.68
36:2e:78:HIS:HD2	39:2h:104:ARG:HD2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:237:G:OP1	61:1A:4328:HOH:O	2.11	0.68
1:2A:1772:G:OP1	61:2A:4025:HOH:O	2.11	0.68
2:2B:105:A:OP1	21:2Z:72:ARG:NH1	2.26	0.68
32:2a:516:PSU:O2	61:2a:3306:HOH:O	2.11	0.68
32:2a:1274:G:N2	32:2a:1275:A:N7	2.41	0.68
1:1A:1044:C:OP1	61:1A:4321:HOH:O	2.10	0.68
4:1E:47:VAL:HG21	4:1E:86:PRO:HD2	1.76	0.68
32:1a:1021:G:O2'	32:1a:1022:G:O5'	2.12	0.68
32:1a:1027:C:C2	32:1a:1034:G:N2	2.61	0.68
1:2A:370:G:OP2	61:2A:4021:HOH:O	2.10	0.68
1:2A:1532:C:H42	1:2A:1537:G:H1	1.40	0.68
1:2A:2287:A:H62	1:2A:2344:U:H3	1.41	0.68
1:1A:848:G:O6	5:1F:53:THR:OG1	2.10	0.68
1:2A:2513:G:N7	61:2A:4103:HOH:O	2.27	0.68
1:2A:2693:A:H2'	1:2A:2694:G:H8	1.58	0.68
32:2a:1030:C:N4	32:2a:1031:G:N1	2.40	0.68
1:1A:1115:A:H4'	1:1A:1116:A:H8	1.58	0.68
1:2A:1378:A:OP1	29:27:10:ARG:NH2	2.27	0.68
32:2a:1224:G:OP1	61:2a:3308:HOH:O	2.11	0.68
1:1A:409:G:O6	61:1A:4322:HOH:O	2.10	0.68
40:1i:31:GLN:HE21	40:1i:36:TYR:HD1	1.41	0.68
1:1A:787:U:OP2	61:1A:4327:HOH:O	2.11	0.68
1:1A:1842:G:N7	61:1A:4418:HOH:O	2.27	0.68
1:1A:2460:A:OP1	61:1A:4304:HOH:O	2.12	0.68
32:1a:1030:C:N4	32:1a:1031:G:N1	2.39	0.68
5:2F:140:LEU:HD11	5:2F:170:LEU:HD11	1.76	0.68
32:1a:650:G:O6	61:1a:2008:HOH:O	2.10	0.68
1:2A:1264:G:OP1	27:25:19:ARG:NH2	2.20	0.68
1:1A:1275:G:N7	61:1A:4409:HOH:O	2.27	0.67
32:1a:276:G:O3'	48:1q:68:ARG:NH1	2.27	0.67
32:2a:664:G:H22	32:2a:741:G:H1	1.42	0.67
1:1A:625:G:O2'	1:1A:702:A:N6	2.27	0.67
1:1A:1139:G:H3'	1:1A:1140:U:H5''	1.76	0.67
32:1a:941:G:N7	61:1a:2039:HOH:O	2.25	0.67
1:2A:1812:A:OP2	61:2A:4033:HOH:O	2.12	0.67
1:2A:2136:C:N3	1:2A:2155:G:N2	2.38	0.67
17:2V:72:VAL:HG13	17:2V:85:LYS:HB2	1.77	0.67
32:2a:1027:C:N4	32:2a:1036:G:O6	2.26	0.67
54:2y:26:A:N1	54:2y:44:G:O6	2.28	0.67
1:2A:249:C:O2	30:28:12:LYS:NZ	2.28	0.67
1:2A:1297:C:OP2	61:2A:4032:HOH:O	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1817:G:OP1	3:2D:88:ARG:NH2	2.28	0.67
1:2A:2242:G:OP1	61:2A:4026:HOH:O	2.11	0.67
12:2Q:26:TYR:O	12:2Q:67:ARG:NH1	2.28	0.67
32:2a:709:G:O6	61:2a:3311:HOH:O	2.12	0.67
54:2w:6:G:O6	54:2w:67:C:N3	2.27	0.67
32:1a:1030:C:N4	32:1a:1031:G:H1	1.91	0.67
1:2A:2805:G:H2'	1:2A:2807:G:C8	2.29	0.67
11:2P:63:PRO:HD3	30:28:27:THR:HG22	1.76	0.67
26:24:15:ILE:HB	26:24:32:TYR:HD1	1.60	0.67
1:1A:556:C:OP2	61:1A:4333:HOH:O	2.13	0.67
39:1h:51:VAL:HG11	39:1h:60:ARG:HH12	1.60	0.67
54:2w:4:C:N4	54:2w:69:G:H1	1.92	0.67
1:1A:692:C:H42	1:1A:698:G:H1	1.41	0.67
32:1a:662:G:H2'	32:1a:663:A:C8	2.30	0.67
32:1a:1363(A):A:OP1	61:1a:2009:HOH:O	2.12	0.67
1:2A:2319:G:H22	14:2S:3:ARG:HD3	1.60	0.67
12:2Q:34:LEU:HB2	12:2Q:118:LEU:HD22	1.77	0.67
1:1A:1695:C:OP1	61:1A:4326:HOH:O	2.12	0.67
32:1a:1385:G:N7	61:1a:2041:HOH:O	2.27	0.67
36:1e:84:PHE:HB2	36:1e:134:ALA:HB2	1.77	0.67
1:2A:621:A:OP2	11:2P:108:LYS:NZ	2.25	0.67
1:1A:1871:G:N7	61:1A:4415:HOH:O	2.27	0.67
1:2A:1153:C:OP1	16:2U:92:ARG:NH2	2.26	0.67
1:2A:1801:G:OP2	3:2D:154:LYS:NZ	2.28	0.67
1:2A:2578:G:OP1	61:2A:4030:HOH:O	2.12	0.67
54:2w:11:C:H42	54:2w:24:G:H1	1.43	0.67
1:1A:2147:G:N1	1:1A:2194:U:OP1	2.25	0.67
43:2l:57:LYS:HG2	43:2l:67:THR:HG22	1.77	0.67
1:1A:303:C:H42	1:1A:385:G:H1	1.43	0.67
1:2A:2317:C:N4	1:2A:2318:G:O6	2.28	0.67
40:2i:50:LEU:HD13	40:2i:56:LEU:HA	1.77	0.67
1:1A:2340:A:H2'	1:1A:2341:G:C8	2.30	0.66
1:2A:1466:G:HO2'	1:2A:1546:C:HO2'	1.38	0.66
32:2a:596:C:OP2	61:2a:3310:HOH:O	2.11	0.66
32:2a:1302:U:OP2	44:2m:21:TYR:OH	2.09	0.66
32:2a:1350:A:N6	61:2a:3326:HOH:O	2.28	0.66
54:2w:13:C:HO2'	54:2w:14:A:H8	1.43	0.66
1:2A:1508:A:H4'	1:2A:1509(A):A:C5	2.29	0.66
1:2A:2206:G:H5''	1:2A:2207:G:N7	2.10	0.66
35:2d:173:TRP:CD1	35:2d:189:PRO:HG3	2.30	0.66
1:2A:2598:A:OP2	61:2A:4034:HOH:O	2.12	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:106:G:H5'	21:2Z:31:ARG:HG2	1.76	0.66
11:2P:44:GLY:O	61:2P:301:HOH:O	2.13	0.66
30:28:6:THR:HG22	30:28:63:PRO:HD2	1.77	0.66
32:2a:920:U:H2'	32:2a:921:U:C6	2.31	0.66
19:2X:8:ILE:O	24:22:36:ARG:NH2	2.29	0.66
32:2a:157:G:H1	32:2a:164:U:H3	1.40	0.66
33:2b:88:ALA:HB2	33:2b:219:VAL:HG13	1.77	0.66
54:2w:4:C:N4	54:2w:69:G:N1	2.44	0.66
54:2y:15:G:N2	54:2y:48:C:H42	1.93	0.66
11:1P:59:LEU:HD21	30:18:10:ALA:HA	1.78	0.66
1:2A:1441:G:O2'	61:2A:4035:HOH:O	2.13	0.66
1:1A:667:G:OP1	61:1A:4329:HOH:O	2.11	0.66
5:1F:157:VAL:HB	5:1F:194:MET:HG2	1.78	0.66
5:1F:185:ASP:HA	5:1F:188:ARG:HD3	1.76	0.66
32:2a:875:C:O2'	39:2h:14:ARG:NH1	2.28	0.66
32:2a:1003:G:H2'	32:2a:1004:A:O4'	1.96	0.66
1:2A:2785:C:OP1	4:2E:41:LYS:NZ	2.28	0.66
20:2Y:9:LYS:NZ	20:2Y:28:LYS:O	2.28	0.66
33:2b:16:HIS:HB3	33:2b:210:SER:HB2	1.77	0.66
35:2d:111:ALA:HB1	35:2d:116:GLN:HG3	1.76	0.66
40:2i:16:ARG:HB2	40:2i:64:THR:HG22	1.76	0.66
1:1A:889:G:N7	61:1A:4421:HOH:O	2.28	0.66
54:1w:5:G:H2'	54:1w:6:G:H8	1.61	0.66
1:2A:2524:G:O6	61:2A:4027:HOH:O	2.11	0.66
1:1A:1681:A:OP2	61:1A:4334:HOH:O	2.13	0.66
43:1l:71:PRO:O	43:1l:102:ARG:NH1	2.28	0.66
1:2A:981:A:OP1	61:2A:4036:HOH:O	2.13	0.66
1:2A:2625:G:O6	61:2A:4038:HOH:O	2.13	0.66
32:2a:1402:4OC:HM22	32:2a:1403:C:H5'	1.78	0.66
12:1Q:34:LEU:HD11	12:1Q:129:THR:HB	1.78	0.66
1:2A:1434:A:H61	1:2A:1558:A:H62	1.43	0.66
1:2A:1769:G:O2'	1:2A:1958:C:OP1	2.12	0.66
1:2A:2327:A:H2'	1:2A:2328:A:C8	2.31	0.66
1:1A:440:C:OP2	61:1A:4332:HOH:O	2.13	0.65
1:2A:2436:G:O6	61:2A:4031:HOH:O	2.12	0.65
48:2q:9:VAL:HG12	48:2q:56:VAL:HG22	1.78	0.65
1:1A:2227:G:H3'	1:1A:2228:G:C8	2.32	0.65
32:1a:803:G:OP1	61:1a:2013:HOH:O	2.14	0.65
45:1n:20:ALA:O	61:1n:601:HOH:O	2.14	0.65
54:1w:5:G:H2'	54:1w:6:G:C8	2.31	0.65
1:2A:1509(B):A:H2'	1:2A:1510:G:H8	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1568:G:N7	61:2A:4109:HOH:O	2.28	0.65
11:2P:50:ARG:HD3	30:28:7:HIS:CD2	2.31	0.65
15:2T:41:ARG:NH2	32:2a:346:G:OP1	2.23	0.65
32:2a:1193:G:O2'	36:2e:25:ARG:NH2	2.29	0.65
1:1A:739:C:O2'	3:1D:38:LYS:NZ	2.29	0.65
54:1w:51:U:H3	54:1w:63:G:H1	1.42	0.65
33:2b:178:ARG:HH22	39:2h:74:PRO:HB3	1.60	0.65
36:2e:60:TYR:OH	36:2e:64:ARG:NH2	2.29	0.65
50:2s:27:GLU:HB2	50:2s:28:LYS:HA	1.77	0.65
1:1A:941:U:O2'	1:1A:942:A:OP1	2.13	0.65
1:1A:1388:A:OP2	61:1A:4337:HOH:O	2.15	0.65
1:1A:2205:C:H2'	1:1A:2206:G:H8	1.62	0.65
1:2A:2291:U:H2'	1:2A:2292:C:C6	2.31	0.65
1:2A:2499:C:OP1	61:2A:4039:HOH:O	2.14	0.65
32:1a:45:U:H2'	32:1a:46:G:C8	2.31	0.65
1:2A:794:G:OP2	61:2A:4037:HOH:O	2.13	0.65
1:2A:1023:U:OP2	61:2A:4020:HOH:O	2.14	0.65
1:2A:2110:G:H3'	1:2A:2111:C:H5'	1.79	0.65
61:2A:4012:HOH:O	4:2E:110:GLY:O	2.15	0.65
32:2a:597:G:OP2	61:2a:3310:HOH:O	2.12	0.65
1:1A:1745:A:OP2	61:1A:4336:HOH:O	2.14	0.65
32:1a:613:C:H2'	32:1a:614:A:H8	1.61	0.65
33:1b:93:VAL:HG21	33:1b:97:TRP:HD1	1.62	0.65
5:2F:28:ILE:HG23	5:2F:112:MET:HE3	1.78	0.65
44:2m:25:ILE:HD11	44:2m:66:LEU:HD13	1.78	0.65
1:1A:2162:C:N3	1:1A:2173:G:O6	2.30	0.65
1:1A:2796:G:N7	61:1A:4427:HOH:O	2.28	0.65
32:1a:1224:G:OP1	61:1a:2015:HOH:O	2.15	0.65
33:1b:185:ILE:HG22	33:1b:199:TYR:HB2	1.77	0.65
32:2a:1053:G:N7	32:2a:1200:C:H5''	2.12	0.65
32:2a:1456:G:N1	51:2t:51:GLU:OE2	2.29	0.65
38:2g:113:GLU:HB2	38:2g:119:ARG:HG2	1.78	0.65
40:2i:121:ARG:NH1	40:2i:122:ALA:O	2.30	0.65
1:2A:1815:A:OP2	3:2D:54:ARG:NH2	2.30	0.65
12:2Q:109:VAL:HG22	12:2Q:113:GLN:HB3	1.77	0.65
13:2R:2:ARG:NH1	13:2R:5:LYS:O	2.29	0.65
32:2a:297:G:N2	32:2a:300:A:OP2	2.30	0.65
32:2a:1002:G:C2	32:2a:1003:G:H8	2.14	0.65
33:2b:78:GLN:OE1	33:2b:95:GLN:NE2	2.28	0.65
1:1A:1873:G:OP2	61:1A:4335:HOH:O	2.14	0.65
7:1H:86:GLU:OE2	7:1H:132:ARG:NH2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:731:C:OP1	61:2A:4041:HOH:O	2.14	0.65
1:2A:1005:C:H2'	1:2A:1006:C:C6	2.32	0.65
1:2A:2448:A:OP1	61:2A:4039:HOH:O	2.15	0.65
1:1A:2129:C:H42	1:1A:2204:G:H1	1.44	0.65
1:1A:2185:C:OP1	1:1A:2187:G:N2	2.30	0.65
1:1A:2772:G:N7	61:1A:4441:HOH:O	2.30	0.65
8:1I:129:THR:HG22	8:1I:139:GLN:HE22	1.62	0.65
32:1a:134:A:H61	47:1p:25:ARG:HH12	1.44	0.65
32:1a:997:U:H3	32:1a:1044:A:H61	1.43	0.65
1:2A:861:A:N3	2:2B:79:C:O2'	2.30	0.65
1:2A:975:C:OP1	61:2A:4042:HOH:O	2.14	0.65
35:2d:112:VAL:H	35:2d:116:GLN:NE2	1.94	0.65
32:1a:946:A:H2'	32:1a:947:G:C8	2.31	0.64
1:2A:2268:A:OP1	61:2A:4040:HOH:O	2.14	0.64
32:2a:148:G:H2'	32:2a:149:A:H8	1.62	0.64
22:10:11:ARG:O	22:10:14:ARG:NH2	2.30	0.64
1:1A:1793:A:N1	61:1A:4438:HOH:O	2.29	0.64
4:1E:121:ASN:ND2	61:1E:402:HOH:O	2.29	0.64
1:2A:1021:A:H62	1:2A:1141:U:H3	1.45	0.64
1:2A:2206:G:H3'	1:2A:2207:G:H8	1.62	0.64
32:2a:997:U:H3	32:2a:1044:A:H61	0.74	0.64
41:2j:64:GLU:OE2	41:2j:66:ARG:NH1	2.31	0.64
1:1A:1615:G:H5''	3:1D:61:LEU:HD13	1.77	0.64
32:1a:557:G:OP1	61:1a:2011:HOH:O	2.13	0.64
35:1d:98:GLU:OE1	35:1d:103:ASN:ND2	2.30	0.64
32:2a:953:G:H5'	32:2a:965:A:N6	2.11	0.64
33:2b:16:HIS:HB2	33:2b:204:ASN:HB3	1.80	0.64
44:2m:31:LYS:HA	44:2m:34:LEU:HD12	1.79	0.64
1:1A:118:U:OP2	61:1A:4341:HOH:O	2.15	0.64
32:1a:120:A:OP1	61:1a:2012:HOH:O	2.14	0.64
44:1m:40:ASN:HB3	44:1m:43:THR:HG23	1.79	0.64
1:2A:2531:A:H61	1:2A:2662:A:H61	1.44	0.64
18:2W:1:MET:HE3	18:2W:62:HIS:HB3	1.79	0.64
32:2a:1001(A):G:H3'	32:2a:1002:G:O4'	1.98	0.64
32:1a:942:G:H21	40:1i:124:GLN:NE2	1.95	0.64
6:2G:135:LEU:HD21	6:2G:157:ILE:HD12	1.79	0.64
43:2l:117:ARG:HG2	43:2l:122:THR:HB	1.80	0.64
1:1A:1317:G:OP2	61:1A:4326:HOH:O	2.14	0.64
8:1I:76:THR:HG22	8:1I:141:LYS:HE2	1.80	0.64
26:24:50:VAL:HG11	44:2m:64:TRP:C	2.22	0.64
2:1B:105:A:OP1	21:1Z:72:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:1w:66:U:H2'	54:1w:67:C:H6	1.62	0.64
1:2A:2125:G:N1	1:2A:2172:U:OP1	2.29	0.64
32:2a:1128:C:H1'	32:2a:1147:C:H42	1.63	0.64
18:1W:1:MET:HE3	18:1W:62:HIS:HB3	1.80	0.64
32:1a:864:A:OP1	61:1a:2014:HOH:O	2.15	0.64
26:24:24:THR:OG1	26:24:25:TYR:N	2.31	0.64
32:2a:966:M2G:HM23	32:2a:967:5MC:H1'	1.79	0.64
32:2a:997:U:O2	32:2a:1044:A:N1	2.31	0.64
1:1A:2331:G:H22	14:1S:3:ARG:CD	2.09	0.64
1:2A:863:A:H2'	1:2A:864:G:C8	2.33	0.63
9:2N:123:TYR:HH	9:2N:130:HIS:HE2	1.41	0.63
12:2Q:37:LEU:HD21	12:2Q:130:LYS:HE3	1.80	0.63
17:2V:43:GLU:OE1	17:2V:43:GLU:N	2.31	0.63
1:2A:674:G:H1'	5:2F:74:ARG:HD3	1.79	0.63
37:2f:11:ASN:HB3	37:2f:14:LEU:HG	1.79	0.63
1:1A:1846:A:OP2	3:1D:54:ARG:NH2	2.30	0.63
1:1A:2362:C:OP2	61:1A:4345:HOH:O	2.16	0.63
4:1E:122:PHE:O	61:1E:401:HOH:O	2.15	0.63
8:2I:93:THR:HG22	8:2I:119:PRO:HB3	1.80	0.63
1:1A:2650:G:P	4:1E:82:ARG:HH12	2.22	0.63
54:1y:19:G:H1	54:1y:56:C:N4	1.96	0.63
5:2F:11:VAL:HG22	5:2F:125:LEU:HB2	1.81	0.63
54:2y:5:G:H1	54:2y:68:C:N4	1.94	0.63
1:1A:555:G:N1	1:1A:2045:G:OP1	2.24	0.63
1:1A:1588:G:OP2	61:1A:4343:HOH:O	2.16	0.63
40:1i:23:ASN:HB2	40:1i:25:LYS:HD3	1.79	0.63
54:1w:66:U:H2'	54:1w:67:C:C6	2.33	0.63
1:2A:320:A:OP2	5:2F:137:LYS:NZ	2.31	0.63
1:2A:2680:C:OP2	4:2E:111:ARG:NH2	2.31	0.63
4:2E:27:LEU:HD22	15:2T:1:MET:HE1	1.80	0.63
5:2F:132:VAL:HG21	5:2F:163:VAL:HG22	1.80	0.63
21:2Z:171:ILE:HG13	21:2Z:172:ALA:H	1.64	0.63
41:2j:38:ILE:HD11	41:2j:71:LEU:HD23	1.80	0.63
1:1A:1464:G:OP2	61:1A:4347:HOH:O	2.16	0.63
1:1A:1941:A:O2'	32:1a:1517:G:N3	2.32	0.63
17:1V:55:ALA:HA	17:1V:101:GLY:HA2	1.79	0.63
44:1m:58:GLU:O	44:1m:62:ASN:ND2	2.23	0.63
1:2A:287:C:H2'	1:2A:288:C:C6	2.34	0.63
1:2A:857:C:H4'	22:20:23:VAL:HG21	1.81	0.63
21:2Z:7:ALA:HB2	21:2Z:59:LEU:HD22	1.81	0.63
43:2l:32:PHE:HB3	43:2l:84:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2862:G:OP2	61:1A:4338:HOH:O	2.15	0.63
54:1w:58:A:N6	61:1w:3102:HOH:O	2.31	0.63
1:2A:300:A:OP1	20:2Y:86:ARG:NH2	2.31	0.63
35:2d:112:VAL:H	35:2d:116:GLN:HE21	1.44	0.63
1:1A:2163:G:O6	1:1A:2172:U:O2	2.17	0.63
32:1a:1414:U:H3	32:1a:1486:G:H1	1.45	0.63
1:2A:2287:A:N6	1:2A:2344:U:H3	1.97	0.63
1:2A:2296:U:OP2	14:2S:9:ARG:NH2	2.30	0.63
2:2B:11:C:OP2	2:2B:12:C:N4	2.22	0.63
32:2a:1508:G:O6	32:2a:1527:C:N4	2.18	0.63
34:2c:155:GLY:HA3	34:2c:196:LEU:HD22	1.81	0.63
42:2k:22:HIS:HB3	42:2k:29:ILE:HB	1.81	0.63
1:1A:2776:G:OP2	61:1A:4346:HOH:O	2.16	0.63
55:1x:4:G:N2	55:1x:69:C:N3	2.40	0.63
1:2A:1113:U:H2'	1:2A:1114:G:C8	2.33	0.63
32:2a:1106:G:H5''	34:2c:172:ARG:HG2	1.79	0.63
1:2A:1120:G:O6	61:2A:4029:HOH:O	2.11	0.62
1:2A:1799:G:O2'	3:2D:181:GLU:OE2	2.17	0.62
1:1A:2130:C:H2'	1:1A:2131:U:H6	1.63	0.62
1:1A:2812:A:H1'	1:1A:2904:U:H1'	1.80	0.62
2:1B:117:G:N7	61:1B:303:HOH:O	2.31	0.62
25:13:39:ASP:OD1	25:13:44:ARG:NH1	2.33	0.62
33:1b:178:ARG:HH22	39:1h:74:PRO:HB3	1.63	0.62
33:1b:213:LEU:HD22	33:1b:214:ILE:HD13	1.82	0.62
36:1e:8:GLU:OE2	36:1e:63:ARG:NH2	2.31	0.62
40:1i:50:LEU:HD13	40:1i:56:LEU:HA	1.81	0.62
1:1A:928:G:N2	1:1A:943:C:O2	2.32	0.62
33:1b:201:ILE:HG21	33:1b:214:ILE:HG21	1.81	0.62
1:2A:143:G:H4'	19:2X:35:THR:HG21	1.79	0.62
1:2A:2218:U:N3	23:21:55:GLY:O	2.32	0.62
3:2D:69:ARG:HE	3:2D:130:ALA:HB2	1.64	0.62
11:2P:86:LYS:HB3	11:2P:118:GLY:HA3	1.81	0.62
54:2w:68:C:H2'	54:2w:69:G:H8	1.64	0.62
1:1A:414:U:O4	61:1A:4330:HOH:O	2.12	0.62
32:1a:108:G:N1	51:1t:15:ARG:HG2	2.15	0.62
1:2A:607:U:OP1	5:2F:102:PRO:HA	2.00	0.62
1:2A:1920:4OC:O5'	1:2A:1920:4OC:H6	1.99	0.62
1:2A:2689:U:OP2	1:2A:2719:G:N2	2.27	0.62
1:1A:1834:A:O2'	3:1D:259:THR:HG21	1.99	0.62
32:1a:1435:G:H2'	32:1a:1436:U:C6	2.34	0.62
35:1d:79:PHE:HE1	35:1d:204:ILE:HD13	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:1n:21:TYR:OH	45:1n:23:ARG:NH2	2.32	0.62
34:2c:183:ASP:N	34:2c:202:ILE:O	2.30	0.62
47:2p:51:VAL:HG12	47:2p:53:VAL:H	1.62	0.62
1:2A:1530:C:H42	1:2A:1539:G:H1	1.48	0.62
1:2A:2136:C:O2'	1:2A:2137:C:O5'	2.18	0.62
1:2A:2781:A:H5''	1:2A:2782:G:H5'	1.82	0.62
7:2H:35:VAL:HG13	7:2H:71:LEU:HD22	1.81	0.62
32:2a:976:G:H5'	32:2a:1358:U:O2'	2.00	0.62
54:2y:14:A:O2'	54:2y:15:G:OP1	2.16	0.62
54:2y:19:G:H1	54:2y:56:C:N4	1.97	0.62
1:1A:1299:A:OP1	61:1A:4349:HOH:O	2.16	0.62
18:1W:31:GLU:OE1	61:1W:3101:HOH:O	2.16	0.62
23:11:23:LYS:HB3	23:11:29:GLY:HA3	1.82	0.62
32:1a:171:A:H2'	32:1a:172:A:C8	2.34	0.62
1:2A:1796:U:H2'	1:2A:1797:C:C6	2.35	0.62
1:1A:215:G:H21	1:1A:217:A:H62	1.48	0.62
33:1b:54:THR:HG21	33:1b:201:ILE:HD11	1.82	0.62
1:2A:1015:G:H2'	1:2A:1016:G:H8	1.64	0.62
32:2a:972:C:O2'	41:2j:55:LYS:O	2.17	0.62
32:2a:1314:C:OP2	50:2s:4:SER:OG	2.08	0.62
1:2A:974:G:OP1	1:2A:1187:G:O2'	2.15	0.62
4:2E:116:VAL:HG13	4:2E:122:PHE:HB2	1.82	0.62
21:2Z:150:LEU:HB3	21:2Z:171:ILE:HD11	1.81	0.62
32:1a:221:C:H2'	32:1a:222:U:H6	1.65	0.61
36:1e:85:GLY:O	36:1e:87:SER:N	2.30	0.61
48:1q:62:SER:OG	48:1q:72:ARG:HG2	1.99	0.61
44:2m:3:ARG:HD3	44:2m:8:GLU:HA	1.82	0.61
40:1i:46:ALA:HB2	40:1i:74:ILE:HG23	1.81	0.61
40:2i:8:GLY:HA2	40:2i:79:LEU:HD23	1.82	0.61
51:2t:10:LEU:HB3	51:2t:12:ALA:H	1.64	0.61
1:1A:2331:G:N2	14:1S:3:ARG:HD3	2.10	0.61
1:1A:2421:G:O2'	61:1A:4350:HOH:O	2.16	0.61
55:2x:6:G:H1	55:2x:67:C:H42	1.46	0.61
54:2y:50:U:H3	54:2y:64:A:N6	1.96	0.61
1:2A:2136:C:N4	1:2A:2155:G:N1	2.48	0.61
2:2B:66:A:N6	2:2B:108:U:H3'	2.16	0.61
12:2Q:10:ARG:HH22	55:2x:64:G:H4'	1.64	0.61
19:2X:60:ARG:HH22	29:27:47:ARG:HH12	1.47	0.61
28:26:40:CYS:O	28:26:44:ARG:N	2.32	0.61
33:2b:48:MET:HA	33:2b:51:LEU:HD12	1.83	0.61
34:1c:11:ARG:HB3	34:1c:15:THR:HB	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:848:G:H2'	1:2A:849:A:C8	2.35	0.61
1:2A:1816:G:O6	3:2D:35:LYS:NZ	2.21	0.61
5:2F:184:TYR:CE2	5:2F:188:ARG:HD2	2.35	0.61
19:2X:1:MET:HE1	24:22:22:GLU:HA	1.82	0.61
36:1e:78:HIS:CD2	39:1h:104:ARG:HD2	2.32	0.61
6:2G:131:TYR:HB3	6:2G:159:VAL:HG13	1.81	0.61
32:2a:1359:C:H3'	45:2n:35:ARG:HH22	1.65	0.61
1:1A:493:G:OP1	29:17:33:ARG:NH1	2.34	0.61
1:1A:1090:G:H5'	1:1A:1091:A:OP2	2.01	0.61
36:1e:12:LEU:HB3	36:1e:31:LEU:HB2	1.83	0.61
3:2D:242:ARG:HG3	3:2D:242:ARG:NH1	2.04	0.61
19:2X:94:GLY:H	19:2X:95:LEU:HA	1.65	0.61
32:2a:1119:C:OP2	40:2i:9:ARG:NH1	2.34	0.61
1:1A:1110:C:N3	1:1A:1120:G:O6	2.34	0.61
1:1A:2148:A:N1	1:1A:2184:G:O2'	2.26	0.61
1:1A:2849:G:H5'	13:1R:46:GLY:HA2	1.83	0.61
5:1F:133:ASN:N	5:1F:138:GLU:OE1	2.34	0.61
32:1a:67:C:H2'	32:1a:68:G:C8	2.36	0.61
32:1a:922:G:H4'	36:1e:20:GLN:HA	1.83	0.61
32:1a:972:C:O2'	41:1j:55:LYS:O	2.18	0.61
1:2A:1569:A:H5'	3:2D:61:LEU:HD11	1.83	0.61
14:2S:38:GLN:NE2	14:2S:47:THR:OG1	2.31	0.61
49:2r:45:SER:HB3	49:2r:51:LEU:HD21	1.82	0.61
1:1A:943:C:N3	1:1A:944:C:N4	2.48	0.61
1:1A:1100:A:N6	1:1A:1151:U:H3	1.99	0.61
45:1n:3:ARG:HH21	45:1n:3:ARG:HG3	1.65	0.61
1:2A:2143:C:H2'	1:2A:2144:U:O4'	2.00	0.61
5:2F:157:VAL:HB	5:2F:194:MET:HG2	1.83	0.61
8:2I:12:LEU:HD22	8:2I:19:VAL:HG21	1.82	0.61
32:2a:909:A:N3	32:2a:1413:A:O2'	2.29	0.61
32:2a:1028:C:N3	32:2a:1033:G:O6	2.34	0.61
32:1a:1033:G:H2'	32:1a:1034:G:C8	2.36	0.61
32:1a:1343:G:H1'	40:1i:121:ARG:NH1	2.15	0.61
47:1p:56:ALA:O	47:1p:60:LEU:HB2	2.01	0.61
7:2H:45:VAL:HG12	7:2H:50:VAL:HG22	1.82	0.61
47:2p:52:ASP:O	47:2p:54:GLU:N	2.33	0.61
1:1A:210:A:N1	1:1A:254:A:O2'	2.34	0.60
1:1A:1117:G:H1'	1:1A:1135:G:H2'	1.83	0.60
1:1A:2348:A:H61	22:10:43:THR:HG22	1.66	0.60
32:1a:1159:U:OP1	33:1b:133:LYS:NZ	2.33	0.60
3:1D:108:PRO:HB3	3:1D:143:HIS:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:848:G:C4	1:2A:933:A:H8	2.19	0.60
1:2A:882:G:H2'	1:2A:883:G:H8	1.66	0.60
12:2Q:52:VAL:HA	12:2Q:55:VAL:HG22	1.84	0.60
21:2Z:69:THR:HG22	21:2Z:90:VAL:HA	1.81	0.60
40:2i:28:VAL:HG22	40:2i:63:ILE:HB	1.83	0.60
49:2r:25:THR:HG23	49:2r:26:LEU:HD12	1.83	0.60
10:2O:115:VAL:HG13	10:2O:121:VAL:HG21	1.83	0.60
18:1W:78:GLU:OE2	18:1W:99:ARG:NH1	2.34	0.60
33:1b:80:ILE:HD13	33:1b:211:ILE:HG22	1.82	0.60
32:2a:1003:G:N2	32:2a:1025:U:O4	2.35	0.60
32:2a:1317:C:O2	50:2s:37:ARG:NH1	2.32	0.60
35:2d:157:LEU:O	35:2d:161:ASN:ND2	2.34	0.60
36:1e:33:VAL:HG21	36:1e:109:ILE:HA	1.83	0.60
9:2N:38:HIS:CE1	9:2N:39:ARG:HG3	2.37	0.60
32:2a:1401:G:C2	32:2a:1402:4OC:H1'	2.36	0.60
6:1G:129:GLY:O	6:1G:161:THR:OG1	2.20	0.60
1:2A:1579:A:H2'	1:2A:1580:A:C8	2.36	0.60
26:24:41:PRO:HG3	26:24:49:PHE:CE2	2.36	0.60
40:2i:18:PHE:HD2	40:2i:62:TYR:HD2	1.49	0.60
2:1B:23:G:O6	61:1B:301:HOH:O	2.13	0.60
7:1H:3:ARG:NH1	7:1H:5:GLY:H	2.00	0.60
32:1a:452:A:H4'	47:1p:72:ARG:NH1	2.16	0.60
1:2A:752:A:H3'	29:27:1:MET:HE1	1.83	0.60
1:2A:890:A:H2'	1:2A:892:G:H8	1.66	0.60
1:2A:958:U:OP2	12:2Q:14:ARG:NH1	2.35	0.60
1:2A:2112:G:N7	1:2A:2169:A:N6	2.49	0.60
7:2H:113:VAL:HG11	7:2H:151:ILE:HD13	1.82	0.60
5:1F:107:LYS:NZ	5:1F:207:GLY:O	2.26	0.60
20:1Y:54:LYS:HA	20:1Y:56:PRO:HD3	1.83	0.60
1:2A:751:A:OP1	61:2A:4045:HOH:O	2.16	0.60
1:2A:796:C:H2'	1:2A:797:C:C6	2.37	0.60
21:2Z:154:ASP:OD1	21:2Z:154:ASP:N	2.31	0.60
33:2b:187:LEU:HA	33:2b:201:ILE:HB	1.84	0.60
47:2p:60:LEU:HD21	47:2p:80:PHE:HE1	1.65	0.60
1:1A:1151:U:H2'	1:1A:1152:G:C8	2.31	0.60
32:1a:78:G:C6	32:1a:91:C:N4	2.70	0.60
35:1d:107:ARG:NH2	35:1d:194:LEU:HD21	2.17	0.60
5:2F:53:THR:HG22	5:2F:56:GLU:HG3	1.84	0.60
51:2t:57:ARG:HH12	51:2t:100:ILE:HD12	1.67	0.60
1:1A:615:G:O6	61:1A:4331:HOH:O	2.13	0.60
32:2a:1187:G:OP1	40:2i:113:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1517:G:H3'	32:2a:1518:MA6:H8	1.83	0.60
21:1Z:92:SER:O	21:1Z:130:PRO:HG2	2.02	0.59
32:1a:1162:C:H42	32:1a:1174:G:H1	1.47	0.59
32:1a:1198:G:OP1	61:1a:2019:HOH:O	2.16	0.59
1:2A:2849:U:OP2	15:2T:95:ARG:NH1	2.35	0.59
6:2G:101:ILE:HG22	6:2G:105:LYS:HE2	1.82	0.59
26:24:47:GLN:C	26:24:49:PHE:H	2.10	0.59
32:2a:837:G:H1	32:2a:849:C:H42	1.49	0.59
41:2j:6:ILE:HB	41:2j:72:VAL:HG23	1.84	0.59
1:1A:346:A:OP1	5:1F:168:ARG:HD2	2.02	0.59
24:12:32:LEU:HD11	24:12:54:LYS:HG2	1.83	0.59
32:1a:102:G:O6	61:1a:2016:HOH:O	2.15	0.59
32:1a:1202:G:H1'	45:1n:29:ARG:HD2	1.83	0.59
1:2A:1671:U:OP2	61:2A:4002:HOH:O	2.17	0.59
1:1A:1992:A:OP1	61:1A:4348:HOH:O	2.16	0.59
1:2A:2127:G:C5	1:2A:2161:C:N4	2.69	0.59
5:2F:185:ASP:HA	5:2F:188:ARG:HD3	1.84	0.59
1:1A:1219:A:H4'	1:1A:1220:U:OP1	2.00	0.59
1:1A:2013:U:H2'	1:1A:2014:G:H5''	1.85	0.59
1:2A:2387:U:O2'	22:20:19:LYS:NZ	2.35	0.59
8:2I:4:ILE:HG12	8:2I:18:VAL:HG22	1.83	0.59
8:2I:43:ASN:ND2	23:21:75:GLU:OE2	2.35	0.59
32:2a:1518:MA6:N6	32:2a:1519:MA6:H103	2.18	0.59
48:2q:45:HIS:HB3	48:2q:72:ARG:HG2	1.85	0.59
5:1F:116:ASP:OD1	5:1F:119:ARG:NH2	2.35	0.59
35:1d:111:ALA:HB2	35:1d:120:LEU:HD12	1.84	0.59
1:2A:361:G:O6	61:2A:4043:HOH:O	2.14	0.59
32:1a:998:G:N2	32:1a:1043:C:N3	2.40	0.59
32:1a:1378:C:O2	38:1g:76:ARG:NH2	2.35	0.59
35:1d:178:VAL:HG12	35:1d:179:GLU:H	1.67	0.59
1:2A:2141:G:O6	1:2A:2150:U:O2	2.20	0.59
35:2d:175:SER:OG	35:2d:184:LYS:HB3	2.02	0.59
1:2A:625:G:N7	11:2P:107:LYS:NZ	2.44	0.59
32:2a:712:A:N6	61:2a:3343:HOH:O	2.36	0.59
32:1a:56:U:H2'	32:1a:57:G:C8	2.36	0.59
32:1a:1027:C:N4	32:1a:1034:G:C6	2.69	0.59
1:2A:1865:G:N7	61:2A:4135:HOH:O	2.31	0.59
1:2A:2784:C:H1'	4:2E:37:ARG:HH12	1.68	0.59
32:2a:134:A:H61	47:2p:25:ARG:NH1	2.01	0.59
1:1A:1071:G:O2'	61:1A:4308:HOH:O	2.12	0.59
1:1A:1104:G:N2	1:1A:1126:C:N3	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2136:C:N4	1:2A:2155:G:H1	2.00	0.59
2:2B:66:A:H61	2:2B:108:U:H3'	1.68	0.59
1:1A:1760:U:H2'	1:1A:1761:G:H8	1.67	0.59
1:2A:322:A:OP2	5:2F:169:ASN:HB2	2.02	0.59
1:2A:568:U:OP2	61:2A:4047:HOH:O	2.17	0.59
19:2X:11:PRO:HB3	19:2X:92:LEU:HD11	1.85	0.59
1:1A:348:A:N6	1:1A:362:G:O2'	2.36	0.58
1:1A:1140:U:H1'	1:1A:1143:U:H5	1.68	0.58
1:1A:1402:G:OP2	61:1A:4353:HOH:O	2.17	0.58
32:1a:1002:G:H3'	32:1a:1003:G:C4'	2.33	0.58
32:1a:1126:U:O2	32:1a:1280:A:H2'	2.03	0.58
32:1a:1189:C:OP1	41:1j:51:ARG:NH2	2.29	0.58
36:1e:110:LEU:HD13	36:1e:118:ILE:HG21	1.85	0.58
32:2a:631:G:H2'	32:2a:632:A:H8	1.67	0.58
39:2h:19:VAL:HG23	39:2h:21:LYS:HG3	1.84	0.58
47:1p:52:ASP:O	47:1p:54:GLU:N	2.36	0.58
1:2A:1800:C:OP2	3:2D:183:ARG:NH2	2.34	0.58
21:2Z:4:ARG:HG2	21:2Z:58:VAL:HB	1.85	0.58
31:29:16:VAL:HG22	31:29:25:VAL:HG22	1.85	0.58
32:2a:79:G:N2	32:2a:90:U:O2	2.31	0.58
35:2d:88:VAL:HG13	36:2e:97:GLY:HA2	1.85	0.58
35:1d:7:PRO:HB2	35:1d:10:ARG:HD2	1.84	0.58
1:2A:1530:C:N4	1:2A:1539:G:H1	2.02	0.58
40:2i:23:ASN:HD21	40:2i:25:LYS:HG2	1.67	0.58
8:1I:92:VAL:HG11	8:1I:144:VAL:HG11	1.85	0.58
14:1S:14:VAL:O	14:1S:18:ILE:HG12	2.03	0.58
32:1a:1229:A:O2'	55:1x:30:G:OP1	2.22	0.58
1:2A:392:C:H5''	1:2A:409:C:H5''	1.85	0.58
32:2a:631:G:H2'	32:2a:632:A:C8	2.39	0.58
32:2a:999:C:N4	32:2a:1042:G:H1	2.01	0.58
1:1A:2096:U:O4	61:1A:4339:HOH:O	2.15	0.58
6:1G:138:GLN:OE1	6:1G:138:GLN:N	2.37	0.58
32:2a:17:U:H2'	32:2a:18:C:C6	2.38	0.58
32:2a:748:C:H4'	32:2a:749:C:O5'	2.03	0.58
32:2a:1010:G:N2	32:2a:1020:U:O2'	2.36	0.58
32:2a:1270:C:H2'	32:2a:1271:G:C8	2.39	0.58
1:1A:779:C:OP1	61:1A:4351:HOH:O	2.17	0.58
1:1A:847:A:H8	1:1A:847:A:OP1	1.87	0.58
1:1A:1202:A:OP1	16:1U:55:ARG:NH1	2.35	0.58
32:1a:1036:G:H5''	32:1a:1037:C:C5	2.39	0.58
1:2A:1826:G:H4'	3:2D:242:ARG:CZ	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2839:G:H5'	13:2R:46:GLY:HA2	1.86	0.58
3:2D:108:PRO:HG2	3:2D:111:LEU:HB2	1.84	0.58
32:2a:222:U:H2'	32:2a:223:U:C6	2.38	0.58
32:2a:1132:C:N4	32:2a:1142:G:H1	2.00	0.58
32:2a:1272:G:N2	32:2a:1273:G:C5	2.71	0.58
50:2s:38:SER:HB2	50:2s:71:LEU:HD22	1.86	0.58
1:1A:1223:C:H2'	1:1A:1224:C:C6	2.38	0.58
14:1S:25:ARG:NH1	14:1S:42:ASP:OD1	2.37	0.58
32:1a:1034:G:N2	32:1a:1035:A:N3	2.51	0.58
32:1a:1381:U:H1'	38:1g:79:ARG:HG2	1.86	0.58
34:1c:36:ASP:O	34:1c:40:ARG:HG2	2.03	0.58
50:1s:11:VAL:HG11	50:1s:16:LEU:HB2	1.85	0.58
1:2A:287:C:H2'	1:2A:288:C:H6	1.69	0.58
1:2A:307:G:N1	1:2A:310:A:OP2	2.32	0.58
1:2A:665:C:H2'	1:2A:666:G:H8	1.69	0.58
1:2A:1041:C:O2	1:2A:1114:G:N2	2.28	0.58
32:2a:376:G:O3'	47:2p:5:ARG:NH1	2.31	0.58
7:1H:127:GLU:OE1	7:1H:130:ARG:NE	2.31	0.58
32:1a:600:C:H2'	32:1a:601:C:C6	2.39	0.58
32:1a:980:C:N3	61:1a:2057:HOH:O	2.32	0.58
1:2A:2788:C:OP1	4:2E:61:ARG:NH2	2.37	0.58
32:2a:1228:C:OP1	44:2m:115:LYS:NZ	2.35	0.58
1:1A:1093:G:H2'	1:1A:1156:G:H22	1.68	0.58
26:14:24:THR:OG1	26:14:25:TYR:N	2.37	0.58
1:2A:1149:G:H2'	1:2A:1150:C:C6	2.38	0.58
1:2A:1462:C:H4'	1:2A:2703:C:H5'	1.86	0.58
1:2A:2728:U:H5'	10:2O:70:LYS:HZ3	1.69	0.58
5:2F:21:ALA:HB3	5:2F:22:ALA:HA	1.86	0.58
32:2a:504:C:OP1	61:2a:3314:HOH:O	2.17	0.58
55:2x:15:G:H2'	55:2x:59:A:N1	2.18	0.58
1:1A:630:U:OP1	5:1F:102:PRO:HA	2.03	0.58
34:1c:58:GLU:HB3	41:1j:92:THR:HG21	1.85	0.58
1:2A:2355:C:H1'	22:20:39:ARG:HH21	1.69	0.58
4:2E:179:GLU:HG3	15:2T:9:LEU:HD21	1.85	0.58
6:2G:73:ALA:HB3	6:2G:85:GLY:H	1.68	0.58
13:2R:33:ARG:NH2	27:25:57:VAL:O	2.32	0.58
21:2Z:33:LEU:HD11	21:2Z:90:VAL:HG21	1.85	0.58
30:28:33:ASN:HA	30:28:36:LYS:HD2	1.85	0.58
32:2a:1108:G:O6	61:2a:3312:HOH:O	2.14	0.58
32:2a:1219:U:OP1	45:2n:19:ARG:NH1	2.32	0.58
39:2h:6:ILE:HB	39:2h:85:ARG:NH1	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:51:VAL:HG11	39:2h:60:ARG:HH12	1.69	0.58
33:1b:33:TYR:HB2	33:1b:43:ASP:HB2	1.86	0.57
11:2P:100:LEU:HD12	11:2P:112:LEU:HD11	1.86	0.57
32:2a:1329:A:H5''	44:2m:26:GLY:H	1.69	0.57
4:1E:12:THR:HG22	4:1E:13:ARG:H	1.70	0.57
7:1H:149:ARG:NH2	7:1H:167:GLU:OE2	2.31	0.57
19:1X:54:VAL:HG22	19:1X:81:VAL:HG12	1.86	0.57
48:1q:66:SER:O	48:1q:70:ARG:NH1	2.37	0.57
1:2A:938:G:OP2	30:28:52:LYS:NZ	2.25	0.57
1:2A:1593:G:H2'	1:2A:1594:G:C8	2.40	0.57
1:2A:2138:C:N4	1:2A:2153:G:N1	2.22	0.57
6:2G:116:ASP:OD2	44:2m:68:GLY:HA3	2.03	0.57
16:2U:66:ASN:HD21	16:2U:70:ARG:HH21	1.51	0.57
32:2a:1499:A:H1'	32:2a:1520:G:H5'	1.86	0.57
34:2c:131:ARG:NH2	36:2e:50:GLU:HG3	2.20	0.57
1:1A:273:G:H21	8:1I:50:ARG:HH12	1.52	0.57
1:1A:2658:C:OP2	1:1A:2745:G:O2'	2.22	0.57
54:1y:7:A:O2'	54:1y:49:C:OP2	2.20	0.57
7:2H:28:GLY:HA3	7:2H:79:VAL:HB	1.86	0.57
24:22:1:MET:SD	24:22:56:GLN:NE2	2.78	0.57
34:2c:9:GLY:HA3	45:2n:49:HIS:HA	1.86	0.57
32:1a:613:C:H2'	32:1a:614:A:C8	2.39	0.57
35:1d:3:ARG:HD3	35:1d:118:ARG:HD2	1.86	0.57
44:1m:4:ILE:HD12	44:1m:57:ARG:HA	1.86	0.57
1:2A:236:C:H2'	1:2A:237:C:C6	2.39	0.57
1:2A:668:G:H5'	1:2A:669:G:OP2	2.04	0.57
32:2a:76:C:H42	32:2a:93:G:H1	1.51	0.57
32:2a:130:A:H5'	48:2q:63:ARG:NH1	2.19	0.57
32:2a:280:C:N3	48:2q:39:SER:N	2.53	0.57
32:2a:1304:G:O2'	32:2a:1333:A:N6	2.38	0.57
33:2b:60:ASP:O	33:2b:64:ARG:HG2	2.05	0.57
1:1A:553:A:O2'	1:1A:554:A:H5'	2.05	0.57
1:1A:1060:U:OP2	61:1A:4356:HOH:O	2.18	0.57
1:1A:1801:G:OP1	61:1A:4355:HOH:O	2.17	0.57
32:1a:982:U:H5''	45:1n:6:LEU:HD21	1.86	0.57
1:2A:517:C:OP1	27:25:16:ARG:NH2	2.37	0.57
1:2A:2035:G:OP1	61:2A:4052:HOH:O	2.18	0.57
8:2I:92:VAL:HG13	8:2I:120:ILE:HB	1.86	0.57
32:2a:1404:5MC:O2	32:2a:1519:MA6:O2'	2.16	0.57
40:2i:9:ARG:H	40:2i:79:LEU:HD23	1.69	0.57
54:2y:59:U:OP1	54:2y:60:U:N3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1D:71:ASP:HB3	3:1D:103:ARG:HH12	1.68	0.57
1:2A:987:G:O2'	1:2A:1000:A:N3	2.32	0.57
2:2B:4:C:H42	2:2B:117:G:H1	1.50	0.57
10:2O:7:TYR:CE1	10:2O:20:MET:HB2	2.40	0.57
32:2a:1328:C:O2'	44:2m:29:ARG:NE	2.34	0.57
40:2i:3:GLN:HE21	40:2i:20:ARG:NH2	2.03	0.57
43:2l:86:ARG:NH1	61:2l:3101:HOH:O	2.38	0.57
44:2m:86:CYS:HB2	50:2s:73:GLU:HG2	1.87	0.57
1:1A:1425:A:H4'	1:1A:1426:G:OP2	2.04	0.57
14:1S:15:ARG:O	14:1S:19:LYS:HG2	2.04	0.57
55:1x:50:U:H2'	55:1x:51:C:C6	2.40	0.57
1:2A:2129:C:N3	1:2A:2159:G:N2	2.48	0.57
6:2G:64:THR:HB	6:2G:94:LEU:HD21	1.86	0.57
32:2a:390:C:O3'	47:2p:28:ARG:NH2	2.38	0.57
34:2c:131:ARG:HH21	36:2e:50:GLU:HG3	1.69	0.57
1:1A:2307:C:OP1	14:1S:10:ARG:NH1	2.38	0.57
55:1x:4:G:H2'	55:1x:5:G:C8	2.39	0.57
1:2A:1418:G:N7	61:2A:4138:HOH:O	2.32	0.57
18:2W:67:ASP:OD1	18:2W:67:ASP:N	2.34	0.57
21:2Z:152:ALA:HB1	21:2Z:163:LEU:HD21	1.86	0.57
32:2a:438:G:H4'	35:2d:123:HIS:CE1	2.40	0.57
32:2a:1118:C:OP1	40:2i:104:ARG:NH1	2.33	0.57
33:2b:16:HIS:HB2	33:2b:204:ASN:CB	2.35	0.57
1:1A:1829:U:H5'	3:1D:259:THR:HG22	1.87	0.57
1:1A:1990:G:OP1	61:1A:4323:HOH:O	2.17	0.57
11:1P:138:LEU:HD23	11:1P:145:PRO:HB3	1.87	0.57
32:1a:1068:G:H8	32:1a:1068:G:OP2	1.87	0.57
32:1a:1361:G:O6	61:1a:2018:HOH:O	2.16	0.57
35:1d:111:ALA:HA	35:1d:116:GLN:HE21	1.70	0.57
40:1i:100:GLY:O	40:1i:103:THR:HG22	2.05	0.57
9:2N:46:VAL:HG23	9:2N:48:MET:HB2	1.86	0.57
12:1Q:109:VAL:HG22	12:1Q:113:GLN:HB3	1.86	0.57
24:12:1:MET:SD	24:12:56:GLN:NE2	2.78	0.57
1:2A:577:G:O2'	1:2A:1254:A:OP1	2.21	0.57
40:2i:20:ARG:O	40:2i:60:ASP:N	2.34	0.57
32:1a:17:U:H2'	32:1a:18:C:C6	2.40	0.56
32:2a:362:G:N2	32:2a:365:U:OP2	2.38	0.56
32:2a:1373:G:N2	61:2a:3326:HOH:O	2.37	0.56
1:1A:2482:G:OP1	12:1Q:56:ARG:NH2	2.37	0.56
15:1T:74:ARG:HG2	15:1T:76:PHE:CZ	2.40	0.56
32:1a:1305:G:N2	32:1a:1331:G:H1'	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:124:ILE:HD12	34:1c:196:LEU:HD12	1.86	0.56
1:2A:72:U:OP1	61:2A:4050:HOH:O	2.17	0.56
1:1A:1500:A:OP2	61:1A:4357:HOH:O	2.18	0.56
11:1P:63:PRO:HD3	30:18:27:THR:HG22	1.85	0.56
12:1Q:85:LYS:HG2	22:10:7:LEU:HB3	1.87	0.56
21:1Z:150:LEU:HB3	21:1Z:171:ILE:HD11	1.87	0.56
32:1a:1095:U:OP1	32:1a:1108:G:N1	2.36	0.56
35:1d:112:VAL:H	35:1d:116:GLN:NE2	2.03	0.56
39:1h:34:GLU:OE1	39:1h:37:ARG:NH1	2.38	0.56
42:1k:48:ILE:HD13	42:1k:63:LEU:HB2	1.87	0.56
1:2A:65:C:O2'	1:2A:456:C:N3	2.36	0.56
32:2a:34:C:H2'	32:2a:35:G:H8	1.70	0.56
49:2r:58:LEU:HD22	49:2r:62:GLU:HB3	1.87	0.56
1:1A:11:G:H2'	1:1A:12:U:H5''	1.87	0.56
1:1A:1539:C:N4	1:1A:2227:G:O2'	2.39	0.56
1:1A:2303:U:H2'	1:1A:2304:C:C6	2.40	0.56
1:1A:2746:A:H2	4:1E:204:ALA:H	1.53	0.56
3:1D:83:GLU:OE1	3:1D:104:TYR:OH	2.20	0.56
32:1a:711:G:OP1	37:1f:54:LYS:NZ	2.29	0.56
32:1a:1002:G:H3'	32:1a:1003:G:H4'	1.86	0.56
48:1q:9:VAL:HG12	48:1q:56:VAL:HG22	1.87	0.56
1:2A:2143:C:N4	1:2A:2148:G:H1	2.02	0.56
3:2D:127:VAL:HA	3:2D:193:VAL:HG23	1.88	0.56
5:2F:150:GLY:HA2	5:2F:172:TRP:CE3	2.40	0.56
32:2a:662:G:O2'	32:2a:836:G:OP1	2.24	0.56
33:2b:144:ARG:NH2	33:2b:148:TYR:OH	2.38	0.56
32:1a:1031:G:H2'	32:1a:1032:G:C8	2.41	0.56
33:1b:16:HIS:HB2	33:1b:204:ASN:HB3	1.86	0.56
1:2A:2121:G:N2	1:2A:2177:C:N3	2.47	0.56
1:2A:2820:A:O2'	1:2A:2821:A:OP1	2.23	0.56
12:2Q:42:ILE:HD13	12:2Q:97:VAL:HB	1.87	0.56
32:2a:573:A:N3	32:2a:883:C:O2'	2.37	0.56
32:2a:576:G:OP1	61:2a:3315:HOH:O	2.17	0.56
32:2a:1028:C:O2	32:2a:1033:G:N1	2.38	0.56
32:2a:1338:G:H21	55:2x:41:C:H1'	1.71	0.56
34:2c:36:ASP:HA	34:2c:39:ILE:HD12	1.86	0.56
34:2c:43:LEU:HD21	34:2c:91:LEU:HD13	1.87	0.56
44:2m:23:TYR:HB3	44:2m:67:GLU:HA	1.87	0.56
32:1a:148:G:H2'	32:1a:149:A:H8	1.69	0.56
2:2B:42:C:O2'	6:2G:67:LYS:O	2.16	0.56
13:2R:28:LEU:HD23	13:2R:48:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:87:ARG:NH2	33:2b:220:ASP:OD1	2.37	0.56
33:2b:189:ASP:OD1	33:2b:189:ASP:N	2.39	0.56
1:1A:1515:C:OP1	61:1A:4354:HOH:O	2.17	0.56
32:1a:661:G:O6	61:1a:2022:HOH:O	2.17	0.56
33:1b:162:ILE:O	33:1b:185:ILE:HG12	2.06	0.56
39:1h:124:ALA:O	39:1h:128:GLY:N	2.38	0.56
1:2A:1800:C:P	3:2D:183:ARG:HH12	2.28	0.56
4:2E:28:ALA:HB3	4:2E:93:VAL:HG12	1.88	0.56
32:2a:448:A:P	32:2a:485:G:H22	2.28	0.56
32:2a:1400:5MC:H6	32:2a:1400:5MC:H5''	1.70	0.56
1:1A:611:U:H2'	1:1A:612:C:C6	2.40	0.56
1:2A:1278:A:OP1	13:2R:36:THR:HG22	2.06	0.56
5:2F:178:PRO:HB2	5:2F:201:VAL:HG21	1.86	0.56
12:2Q:12:GLN:NE2	12:2Q:72:LYS:HG3	2.14	0.56
32:2a:829:G:N7	61:2a:3332:HOH:O	2.32	0.56
1:1A:430:U:H4'	1:1A:431:C:H5'	1.88	0.56
1:1A:1223:C:H2'	1:1A:1224:C:H6	1.71	0.56
1:1A:1877:G:H2'	57:1A:4209:CPT:CL1	2.43	0.56
32:1a:1037:C:H2'	32:1a:1038:C:H6	1.71	0.56
34:1c:6:HIS:HD2	34:1c:8:ILE:H	1.52	0.56
36:1e:78:HIS:HE1	36:1e:143:ARG:H	1.54	0.56
46:1o:64:ARG:HH12	46:1o:68:ARG:NH2	2.04	0.56
11:2P:38:GLN:O	11:2P:39:LYS:HB3	2.05	0.56
24:22:35:LEU:HD12	24:22:53:LEU:HD12	1.87	0.56
1:1A:1405:A:H2	1:1A:1418:U:O4	1.89	0.56
1:2A:459:U:H5''	29:27:40:TRP:CD2	2.41	0.56
1:2A:479:A:N3	1:2A:481:G:H5''	2.21	0.56
1:2A:764:A:H5''	3:2D:210:GLY:HA2	1.88	0.56
1:2A:2518:A:OP2	61:2A:4048:HOH:O	2.17	0.56
6:2G:41:GLN:HB3	6:2G:43:LEU:HD13	1.88	0.56
8:2I:1:MET:HE2	8:2I:23:PRO:HA	1.87	0.56
1:1A:1452:U:H2'	1:1A:1453:C:C6	2.41	0.55
1:1A:2178:G:H2'	1:1A:2179:G:C2	2.41	0.55
32:1a:1027:C:C4	32:1a:1034:G:C2	2.94	0.55
55:1x:8:4SU:O5'	55:1x:8:4SU:H6	2.06	0.55
32:2a:1513:A:H2'	32:2a:1514:C:C6	2.41	0.55
1:1A:1810:U:H2'	61:1A:4403:HOH:O	2.06	0.55
7:1H:86:GLU:OE2	7:1H:130:ARG:NH1	2.39	0.55
32:1a:266:G:O3'	48:1q:67:LYS:HB2	2.06	0.55
32:1a:1030:C:N3	32:1a:1031:G:C2	2.74	0.55
1:2A:271(H):G:H2'	1:2A:271(I):G:H8	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:578:A:OP2	61:2A:4054:HOH:O	2.18	0.55
6:2G:28:VAL:O	6:2G:31:VAL:HG12	2.06	0.55
32:2a:1089:G:H1	32:2a:1096:C:H42	1.54	0.55
44:2m:73:GLU:O	44:2m:77:ASN:ND2	2.36	0.55
1:1A:1040:C:OP2	16:1U:54:LYS:NZ	2.34	0.55
6:1G:82:LEU:HD21	6:1G:88:ILE:HG21	1.87	0.55
1:2A:84:A:H5'	20:2Y:8:LYS:HG2	1.89	0.55
2:2B:75:G:H22	21:2Z:73:GLN:HE21	1.54	0.55
20:2Y:13:VAL:HG12	20:2Y:74:PRO:HA	1.87	0.55
42:2k:99:GLN:HG2	42:2k:105:VAL:HG21	1.87	0.55
55:2x:47:U:H3'	55:2x:48:C:H5'	1.88	0.55
47:1p:47:ASP:OD1	47:1p:47:ASP:N	2.39	0.55
1:2A:1022:G:H22	1:2A:1142(A):A:H2	1.52	0.55
9:2N:32:THR:HG23	9:2N:37:LYS:HB2	1.88	0.55
54:2w:2:C:O2	54:2w:71:G:N1	2.31	0.55
54:2w:51:U:H2'	54:2w:52:G:C8	2.42	0.55
1:1A:1108:G:P	1:1A:1116:A:H1'	2.47	0.55
1:1A:1310:G:OP1	27:15:19:ARG:NH2	2.29	0.55
18:1W:11:ARG:HA	18:1W:100:THR:HG22	1.87	0.55
32:1a:78:G:N1	32:1a:91:C:C4	2.74	0.55
44:1m:79:LYS:HA	44:1m:82:MET:HE2	1.87	0.55
54:1w:51:U:H2'	54:1w:52:G:C8	2.42	0.55
1:2A:910:A:N1	1:2A:2277:G:H1'	2.22	0.55
1:2A:975(A):G:OP2	61:2A:4053:HOH:O	2.18	0.55
1:2A:2104:G:H1	1:2A:2185:C:N4	2.03	0.55
1:2A:2336:A:H61	22:20:43:THR:HG22	1.72	0.55
2:2B:54:G:H21	6:2G:29:TRP:HE1	1.53	0.55
28:26:34:LEU:HB2	28:26:51:GLU:HB3	1.87	0.55
38:2g:111:ARG:HB3	38:2g:113:GLU:OE1	2.07	0.55
54:2w:29:G:H1	54:2w:41:C:H42	1.53	0.55
1:1A:791:G:OP1	4:1E:132:HIS:ND1	2.39	0.55
1:1A:1831:C:P	3:1D:183:ARG:HH12	2.30	0.55
1:1A:1961:5MU:OP1	1:1A:2616:U:O2'	2.23	0.55
1:2A:1636:C:H2'	1:2A:1637:A:C8	2.42	0.55
14:2S:67:ARG:O	14:2S:71:ARG:HG3	2.07	0.55
40:2i:40:LEU:HD11	40:2i:70:LYS:HD3	1.88	0.55
1:1A:1115:A:H4'	1:1A:1116:A:C8	2.40	0.55
5:1F:103:LYS:HA	5:1F:106:ARG:HG3	1.88	0.55
35:1d:63:LYS:HD2	35:1d:198:VAL:HG22	1.89	0.55
37:1f:69:GLU:O	37:1f:72:VAL:HG12	2.07	0.55
1:2A:467:G:OP2	29:27:34:ARG:HD3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1790:C:H5''	1:2A:1791:A:OP1	2.06	0.55
1:2A:2693:A:H2'	1:2A:2694:G:C8	2.40	0.55
11:2P:95:VAL:HA	11:2P:99:LEU:HD21	1.87	0.55
32:2a:1366:C:H2'	32:2a:1367:C:C6	2.42	0.55
36:2e:122:GLU:O	36:2e:126:ARG:NH1	2.38	0.55
6:1G:41:GLN:HB3	6:1G:43:LEU:HD13	1.87	0.55
32:1a:958:A:N6	50:1s:77:THR:O	2.40	0.55
50:1s:41:VAL:HG12	50:1s:44:MET:HG3	1.89	0.55
51:1t:65:LYS:HA	51:1t:68:LYS:HD3	1.89	0.55
1:2A:566:U:H5''	11:2P:29:LYS:HE3	1.89	0.55
1:2A:1529:G:O6	1:2A:1541:G:N2	2.40	0.55
1:2A:2441:C:OP2	1:2A:2586:C:O2'	2.24	0.55
1:2A:2758:A:C2	1:2A:2759:G:H1'	2.42	0.55
13:2R:44:LEU:HD22	13:2R:48:VAL:HG23	1.89	0.55
32:2a:257:G:H1	32:2a:269:C:H42	1.54	0.55
32:2a:737:A:H2'	32:2a:738:C:C6	2.42	0.55
35:2d:18:LYS:NZ	35:2d:26:CYS:O	2.31	0.55
42:2k:48:ILE:O	42:2k:50:TYR:N	2.39	0.55
1:1A:1133:G:H2'	1:1A:1135:G:C8	2.42	0.55
18:1W:68:ARG:HH11	18:1W:111:HIS:HA	1.71	0.55
32:1a:976:G:H5'	32:1a:1358:U:O2'	2.07	0.55
1:2A:180:G:N2	1:2A:215:G:O6	2.40	0.55
1:2A:492:A:H2'	1:2A:493:G:O4'	2.07	0.55
1:2A:1022:G:N2	1:2A:1023:U:O4	2.37	0.55
1:2A:1939:5MU:OP1	1:2A:2604:U:O2'	2.24	0.55
1:2A:2183:C:H2'	1:2A:2184:G:H8	1.72	0.55
1:2A:2453:A:OP1	61:2A:4057:HOH:O	2.18	0.55
18:2W:71:VAL:HA	18:2W:107:LEU:HD12	1.89	0.55
32:2a:1299:A:H2'	32:2a:1299:A:N3	2.21	0.55
32:1a:1028:C:H2'	32:1a:1029:C:O4'	2.07	0.55
1:2A:1794:U:H2'	1:2A:1795:C:C6	2.42	0.55
1:2A:1889:A:H2'	1:2A:1890:A:C8	2.42	0.55
29:27:1:MET:HE3	29:27:3:ARG:NH2	2.22	0.55
32:2a:1271:G:C2	32:2a:1272:G:N7	2.75	0.55
44:2m:90:LEU:HD23	44:2m:93:ARG:HD2	1.88	0.55
1:1A:236:G:H4'	1:1A:413:G:C5	2.41	0.54
1:1A:2507:G:H5''	12:1Q:82:ARG:HG2	1.89	0.54
35:1d:178:VAL:O	35:1d:180:GLY:N	2.39	0.54
1:2A:1429:G:H2'	1:2A:1430:C:C6	2.41	0.54
3:2D:274:ARG:O	3:2D:275:LYS:HD2	2.07	0.54
10:2O:97:ARG:NH1	32:2a:339:C:OP2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:636:G:N2	1:1A:640:A:O2'	2.40	0.54
1:1A:1817:A:H1'	1:1A:1960:A:N6	2.22	0.54
32:1a:1475:G:N7	61:1a:2059:HOH:O	2.33	0.54
1:2A:639:U:H2'	1:2A:640:C:C6	2.42	0.54
1:2A:1507:A:O2'	1:2A:1508:A:O4'	2.25	0.54
32:2a:134:A:H61	47:2p:25:ARG:HH12	1.53	0.54
32:2a:539:A:H2'	32:2a:540:G:C8	2.42	0.54
32:2a:1202:G:H1'	45:2n:29:ARG:HD2	1.90	0.54
47:2p:8:ARG:HB3	47:2p:28:ARG:NH1	2.21	0.54
1:1A:937:A:H2'	1:1A:938:G:O4'	2.08	0.54
32:1a:559:A:OP1	36:1e:126:ARG:NH2	2.39	0.54
1:2A:1786:A:H1'	1:2A:1938:A:N6	2.22	0.54
1:2A:1846:G:H2'	57:2A:3903:CPT:CL1	2.44	0.54
1:2A:2748:A:H5'	7:2H:4:ILE:HD12	1.90	0.54
21:2Z:30:ASN:HA	21:2Z:89:PHE:HE1	1.71	0.54
32:2a:1004:A:C8	32:2a:1005:A:H4'	2.41	0.54
32:2a:1318:A:O2'	50:2s:37:ARG:HB2	2.07	0.54
32:2a:1442:G:H2'	32:2a:1442:G:N3	2.23	0.54
34:2c:182:ILE:HG12	34:2c:203:PHE:HD1	1.73	0.54
54:2w:7:A:N1	54:2w:66:U:O4	2.41	0.54
31:19:25:VAL:HB	31:19:34:GLN:HB2	1.90	0.54
1:2A:652(B):A:N6	1:2A:655:A:N3	2.55	0.54
12:2Q:10:ARG:NH1	55:2x:64:G:H4'	2.22	0.54
32:2a:148:G:H2'	32:2a:149:A:C8	2.43	0.54
32:2a:987:G:H1	32:2a:1218:C:N4	2.01	0.54
47:2p:14:ASN:OD1	47:2p:42:ARG:NH2	2.39	0.54
54:2y:65:G:H2'	54:2y:66:U:C6	2.42	0.54
1:1A:271:U:H4'	1:1A:272:U:OP2	2.08	0.54
1:1A:2205:C:H2'	1:1A:2206:G:C8	2.41	0.54
17:1V:72:VAL:HG13	17:1V:85:LYS:HB3	1.89	0.54
33:1b:189:ASP:OD1	33:1b:189:ASP:N	2.36	0.54
1:2A:1292:U:H2'	1:2A:1293:C:C6	2.42	0.54
1:2A:1405:U:H2'	1:2A:1406:U:C6	2.43	0.54
54:2y:14:A:H3'	54:2y:15:G:C8	2.42	0.54
1:1A:1896:G:N7	61:1A:4470:HOH:O	2.33	0.54
37:1f:91:VAL:HG11	49:1r:72:ARG:NH1	2.23	0.54
45:1n:23:ARG:HD2	45:1n:28:GLY:O	2.08	0.54
1:2A:1165:U:H2'	1:2A:1166:C:C6	2.43	0.54
32:2a:109:A:C6	32:2a:326:G:C6	2.95	0.54
28:16:10:LEU:HG	28:16:54:ILE:HG13	1.90	0.54
1:2A:700:G:O2'	1:2A:1632:A:N3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1116:C:H2'	1:2A:1117:G:C8	2.43	0.54
1:2A:1779:U:OP2	61:2A:4055:HOH:O	2.18	0.54
1:2A:2394:C:N3	54:2y:76:A:O2'	2.34	0.54
3:2D:71:ASP:HB3	3:2D:103:ARG:HH12	1.72	0.54
32:2a:235:C:N4	61:2a:3317:HOH:O	2.40	0.54
32:2a:1347:G:N2	32:2a:1373:G:H2'	2.22	0.54
50:2s:28:LYS:HB3	50:2s:29:ARG:CB	2.37	0.54
1:1A:798:A:H5'	18:1W:90:ARG:HA	1.90	0.54
1:1A:1154:U:H2'	1:1A:1155:C:O4'	2.07	0.54
11:1P:50:ARG:HD3	30:18:7:HIS:CD2	2.43	0.54
61:1a:2052:HOH:O	45:1n:3:ARG:HB3	2.07	0.54
54:1y:52:G:H1	54:1y:62:C:N4	2.05	0.54
1:2A:531:C:OP1	1:2A:561:G:N1	2.41	0.54
15:2T:39:ARG:NH2	32:2a:345:C:OP2	2.40	0.54
32:2a:444:C:H2'	32:2a:445:G:H8	1.72	0.54
32:2a:995:C:H1'	45:2n:4:LYS:HE2	1.90	0.54
32:1a:262:A:H2'	32:1a:263:A:C8	2.43	0.54
32:1a:1054:C:C4	54:1w:34:G:H1'	2.43	0.54
33:1b:208:ILE:H	33:1b:208:ILE:HD12	1.73	0.54
5:2F:103:LYS:HA	5:2F:106:ARG:HG3	1.90	0.54
39:2h:6:ILE:HB	39:2h:85:ARG:HH11	1.73	0.54
55:2x:2:G:H1	55:2x:71:C:H42	1.56	0.54
1:1A:943:C:H5'	54:1w:56:C:OP1	2.07	0.54
1:1A:1123:A:H2'	1:1A:1124:U:H4'	1.89	0.54
1:1A:1214:G:H1	1:1A:1226:C:H42	1.56	0.54
1:1A:1981:G:N7	61:1A:4477:HOH:O	2.34	0.54
28:16:6:ARG:NH1	28:16:26:ASN:HB2	2.22	0.54
32:1a:1039:C:H2'	32:1a:1040:U:H6	1.73	0.54
37:1f:37:VAL:HA	37:1f:65:VAL:HG12	1.90	0.54
1:2A:1239:G:H2'	1:2A:1240:U:O4'	2.08	0.54
1:2A:1266:G:O2'	1:2A:2012:G:O6	2.26	0.54
32:2a:22:G:H4'	32:2a:885:G:C8	2.43	0.54
54:2y:9:A:H5'	54:2y:46:7MG:N3	2.23	0.54
1:1A:347:G:C8	5:1F:171:PRO:HG3	2.43	0.53
1:1A:843:C:H2'	1:1A:844:C:C6	2.43	0.53
13:1R:24:GLN:HE22	13:1R:36:THR:HG21	1.72	0.53
32:1a:1187:G:H4'	40:1i:111:ARG:HH11	1.71	0.53
32:1a:1218:C:OP2	45:1n:9:LYS:NZ	2.41	0.53
41:1j:49:VAL:HG23	45:1n:41:ARG:HB2	1.90	0.53
1:2A:514:A:N3	1:2A:581:C:O2'	2.40	0.53
1:2A:2114:A:O2'	1:2A:2167:U:H1'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:67:LEU:HA	9:2N:87:LEU:HD22	1.90	0.53
21:2Z:146:ILE:HG12	21:2Z:174:VAL:HG13	1.90	0.53
32:2a:1015:A:H2'	32:2a:1016:A:C8	2.43	0.53
34:2c:152:ILE:HG13	34:2c:199:LYS:HB2	1.91	0.53
1:1A:1106:U:H3	1:1A:1134:A:H8	1.53	0.53
1:1A:1410:G:N7	23:11:3:LYS:HD2	2.24	0.53
6:1G:47:LYS:HG3	6:1G:48:GLU:H	1.73	0.53
12:1Q:111:GLU:OE2	12:1Q:133:ARG:NH2	2.41	0.53
17:1V:76:LYS:HB2	17:1V:81:TYR:HB3	1.89	0.53
32:1a:1376:U:H2'	32:1a:1377:A:C8	2.43	0.53
54:1y:7:A:OP1	54:1y:8:4SU:H5	2.07	0.53
1:2A:2022:U:O2'	1:2A:2617:C:H5'	2.08	0.53
6:2G:79:ASN:N	6:2G:79:ASN:OD1	2.41	0.53
21:2Z:99:TYR:HA	21:2Z:124:ILE:O	2.07	0.53
32:2a:63:C:H42	32:2a:104:G:H1	1.56	0.53
32:2a:142:G:H2'	32:2a:143:A:C8	2.43	0.53
1:1A:662:A:OP1	11:1P:133:SER:OG	2.22	0.53
1:1A:1990:G:OP1	61:1A:4358:HOH:O	2.18	0.53
1:1A:2897:U:H2'	1:1A:2898:C:C6	2.43	0.53
18:1W:68:ARG:HH12	18:1W:112:GLY:H	1.56	0.53
32:1a:1278:U:O2'	61:1a:2023:HOH:O	2.18	0.53
54:1w:7:A:N1	54:1w:66:U:O2	2.41	0.53
1:2A:1486:A:H2'	1:2A:1487:G:H8	1.73	0.53
1:2A:2148:G:H2'	1:2A:2149:G:C8	2.44	0.53
1:2A:2422:A:O4'	54:2y:76:A:N6	2.40	0.53
1:2A:2443:C:H2'	1:2A:2444:G:H8	1.74	0.53
21:2Z:46:LYS:O	21:2Z:50:GLN:NE2	2.33	0.53
32:2a:947:G:H1	32:2a:1234:C:N4	2.04	0.53
32:2a:1002:G:N1	32:2a:1003:G:H8	2.07	0.53
32:2a:1130:A:O2'	40:2i:3:GLN:NE2	2.40	0.53
32:2a:1301:U:O2'	32:2a:1302:U:H5'	2.09	0.53
35:2d:5:ILE:HA	35:2d:115:ARG:HH22	1.74	0.53
54:2w:19:G:H1	54:2w:56:C:H42	1.55	0.53
2:1B:29:A:O2'	2:1B:58:A:N1	2.40	0.53
17:1V:5:VAL:HG21	17:1V:35:LEU:HD23	1.90	0.53
33:1b:158:LEU:HG	33:1b:182:ILE:HD11	1.91	0.53
34:1c:15:THR:HG21	34:1c:181:ASN:HA	1.91	0.53
54:1y:52:G:H1	54:1y:62:C:H42	1.56	0.53
54:1y:63:G:C2	54:1y:64:A:H1'	2.43	0.53
1:2A:84:A:H5''	20:2Y:8:LYS:HE3	1.89	0.53
1:2A:1428:C:O2'	1:2A:1569:A:OP2	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2314:C:H2'	1:2A:2315:G:H8	1.73	0.53
33:2b:24:TRP:CZ3	33:2b:26:PRO:HA	2.43	0.53
33:2b:101:MET:HA	33:2b:108:ILE:HG13	1.90	0.53
1:1A:24:G:O2'	18:1W:78:GLU:O	2.22	0.53
1:1A:535:C:OP1	61:1A:4324:HOH:O	2.19	0.53
8:1I:140:LEU:HD22	8:1I:142:VAL:HG13	1.91	0.53
33:1b:80:ILE:HG12	33:1b:215:LEU:HD23	1.90	0.53
1:2A:247:G:H4'	1:2A:386:G:C5	2.44	0.53
1:2A:807:U:O2'	1:2A:2060:A:N1	2.41	0.53
1:2A:925:C:H2'	1:2A:926:A:H8	1.73	0.53
19:2X:57:LEU:HD11	19:2X:78:LYS:HE2	1.89	0.53
32:2a:1496:C:OP2	61:2a:3316:HOH:O	2.19	0.53
34:2c:6:HIS:HB3	45:2n:49:HIS:ND1	2.23	0.53
35:2d:88:VAL:HA	36:2e:97:GLY:HA3	1.91	0.53
1:1A:776:G:C6	3:1D:208:LYS:HB2	2.44	0.53
1:1A:839:G:OP2	61:1A:4359:HOH:O	2.19	0.53
1:1A:1046:A:H62	1:1A:1200:G:H2'	1.74	0.53
13:1R:72:ASP:O	13:1R:76:VAL:HG23	2.08	0.53
21:1Z:153:SER:HB3	21:1Z:167:PRO:HB3	1.90	0.53
32:1a:200:G:H1	32:1a:217:C:H42	1.55	0.53
33:1b:174:VAL:O	33:1b:178:ARG:HG2	2.09	0.53
1:2A:305:U:H2'	1:2A:306:U:C6	2.44	0.53
1:2A:731:C:H5''	61:2A:4041:HOH:O	2.07	0.53
2:2B:103:G:H21	21:2Z:73:GLN:HE22	1.56	0.53
11:2P:39:LYS:HB2	11:2P:45:LEU:HG	1.90	0.53
26:24:58:ARG:HG3	50:2s:67:VAL:HB	1.90	0.53
32:2a:1179:A:H2'	32:2a:1180:A:O4'	2.09	0.53
54:2y:7:A:O2'	54:2y:49:C:O4'	2.24	0.53
1:1A:605:G:H2'	1:1A:606:G:C8	2.44	0.53
1:1A:815:G:O2'	1:1A:1425:A:N1	2.39	0.53
1:1A:2389:A:H2'	1:1A:2390:A:C8	2.44	0.53
3:1D:85:ASP:OD2	3:1D:88:ARG:NH1	2.42	0.53
4:1E:31:CYS:HB3	4:1E:49:LEU:HG	1.90	0.53
32:1a:153:C:H42	32:1a:168:G:H1	1.56	0.53
35:1d:112:VAL:HG23	35:1d:116:GLN:NE2	2.24	0.53
40:1i:4:TYR:HB2	40:1i:19:LEU:HB2	1.91	0.53
1:2A:531:C:H4'	1:2A:532:A:H5''	1.91	0.53
1:2A:2632:A:O2'	1:2A:2811:G:O2'	2.22	0.53
29:27:12:ARG:NH2	29:27:44:PRO:HB3	2.24	0.53
32:2a:1359:C:OP1	45:2n:22:THR:OG1	2.26	0.53
35:2d:173:TRP:CZ3	35:2d:193:ASP:HB3	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:967:G:O6	61:1A:4340:HOH:O	2.15	0.53
1:1A:2402:U:P	30:18:35:GLN:HE22	2.32	0.53
19:1X:53:LYS:HB3	19:1X:82:GLN:HB3	1.90	0.53
26:14:58:ARG:O	26:14:61:ARG:HB2	2.09	0.53
35:1d:119:GLN:HG2	35:1d:123:HIS:CD2	2.43	0.53
1:2A:851:U:O2'	25:23:42:ALA:O	2.26	0.53
1:2A:893:C:H2'	1:2A:894:C:C5	2.44	0.53
1:2A:1557:C:OP2	1:2A:1558:A:O2'	2.23	0.53
1:2A:1899:G:H2'	1:2A:1899:G:N3	2.24	0.53
1:2A:1971:A:OP1	61:2A:4051:HOH:O	2.17	0.53
1:2A:2589:A:OP1	61:2A:4060:HOH:O	2.19	0.53
7:2H:98:LEU:HB2	7:2H:125:VAL:HG22	1.90	0.53
32:2a:1074:G:O2'	33:2b:103:THR:OG1	2.25	0.53
1:1A:1115:A:H1'	1:1A:1142:A:H4'	1.91	0.53
1:1A:2153:G:H5''	1:1A:2154:U:H3'	1.90	0.53
51:1t:60:GLU:HG3	51:1t:81:LYS:HD2	1.89	0.53
54:1y:4:C:H2'	54:1y:5:G:O4'	2.09	0.53
1:2A:890:A:H2'	1:2A:892:G:C8	2.43	0.53
1:2A:2238:G:H5''	61:2A:4365:HOH:O	2.08	0.53
1:2A:2836:U:H2'	1:2A:2837:G:C8	2.44	0.53
5:2F:21:ALA:CB	5:2F:22:ALA:HA	2.39	0.53
32:2a:1031:G:H2'	32:2a:1032:G:C8	2.44	0.53
32:2a:1178:G:OP1	40:2i:93:ARG:NH1	2.42	0.53
43:2l:113:ARG:HH21	43:2l:116:SER:HB2	1.73	0.53
54:2w:13:C:O2'	54:2w:14:A:H8	1.92	0.53
1:1A:956:A:N3	1:1A:2276:C:O2'	2.40	0.53
1:1A:2315:G:O6	61:1A:4342:HOH:O	2.15	0.53
4:1E:29:GLY:HA3	61:1E:406:HOH:O	2.08	0.53
32:1a:1026:G:H8	32:1a:1027:C:O2	1.92	0.53
32:1a:1503:A:O2'	53:1v:13:A:N1	2.42	0.53
38:1g:20:ASP:OD2	38:1g:63:LYS:NZ	2.42	0.53
54:1y:50:U:H3	54:1y:64:A:H2	1.55	0.53
1:2A:822:U:OP2	61:2A:4059:HOH:O	2.19	0.53
1:2A:2140:C:H2'	1:2A:2141:G:H5'	1.89	0.53
11:2P:97:PRO:HD3	11:2P:126:VAL:O	2.09	0.53
50:2s:32:LYS:HA	50:2s:50:ALA:HB3	1.91	0.53
1:1A:1410:G:P	23:11:3:LYS:HG3	2.49	0.52
1:1A:2143:G:H1	1:1A:2199:C:N4	2.06	0.52
12:1Q:81:VAL:HB	22:10:7:LEU:HD21	1.91	0.52
32:1a:1270:C:OP2	52:1u:24:ARG:NH2	2.41	0.52
33:1b:51:LEU:HD22	33:1b:55:PHE:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:95:GLU:O	49:1r:32:ARG:NH1	2.42	0.52
45:1n:4:LYS:HA	45:1n:7:ILE:HG22	1.90	0.52
50:1s:32:LYS:HA	50:1s:50:ALA:HB3	1.91	0.52
1:2A:2820:A:OP1	13:2R:2:ARG:NH2	2.41	0.52
14:2S:16:ASN:O	14:2S:20:ARG:HG2	2.08	0.52
32:2a:1150:U:H4'	41:2j:41:PRO:HG3	1.90	0.52
21:1Z:74:VAL:HG22	21:1Z:86:VAL:HG12	1.91	0.52
32:1a:38:G:O6	61:1a:2021:HOH:O	2.17	0.52
41:1j:17:ASP:OD1	41:1j:70:ARG:NE	2.40	0.52
1:2A:800:A:H8	1:2A:800:A:OP1	1.92	0.52
1:2A:2014:A:H4'	18:2W:92:ARG:HH22	1.74	0.52
1:2A:2171:A:N3	1:2A:2172:U:N3	2.57	0.52
1:2A:2837:G:N7	61:2A:4148:HOH:O	2.34	0.52
2:2B:17:C:H2'	2:2B:18:G:O4'	2.08	0.52
16:2U:91:ASP:O	16:2U:95:LEU:HD12	2.09	0.52
32:2a:1218:C:H2'	32:2a:1219:U:C6	2.44	0.52
33:2b:12:GLU:HA	33:2b:15:VAL:HG22	1.91	0.52
33:2b:74:LYS:O	33:2b:78:GLN:HG2	2.09	0.52
47:2p:53:VAL:HG22	47:2p:79:VAL:HG22	1.90	0.52
55:2x:3:C:H42	55:2x:70:G:H1	1.57	0.52
1:1A:1093:G:H2'	1:1A:1156:G:N2	2.25	0.52
1:1A:1634:C:H2'	1:1A:1635:C:H6	1.74	0.52
22:10:40:GLN:O	61:10:5001:HOH:O	2.19	0.52
28:16:35:GLU:OE2	28:16:50:ARG:NH1	2.36	0.52
32:1a:1203:C:OP1	45:1n:3:ARG:NE	2.40	0.52
1:2A:860:U:H1'	1:2A:2268:A:H5'	1.91	0.52
1:2A:1697:G:OP2	1:2A:1698:A:O2'	2.25	0.52
1:2A:2815:C:H5'	27:25:29:THR:HG21	1.91	0.52
32:2a:692:U:O2'	32:2a:694:A:N7	2.30	0.52
32:2a:967:5MC:H2'	32:2a:968:A:C8	2.44	0.52
44:2m:3:ARG:NH2	44:2m:45:VAL:HG11	2.24	0.52
44:2m:16:ASP:HB3	44:2m:34:LEU:HD11	1.91	0.52
50:2s:77:THR:HG23	50:2s:78:ARG:HG3	1.91	0.52
1:1A:939:C:H2'	1:1A:940:C:C6	2.43	0.52
20:1Y:92:ASN:N	20:1Y:93:GLY:HA2	2.23	0.52
41:1j:5:ARG:HG3	41:1j:73:ASP:OD1	2.09	0.52
9:2N:39:ARG:HD3	9:2N:48:MET:HE3	1.92	0.52
17:2V:46:VAL:HG23	17:2V:52:VAL:HG11	1.90	0.52
19:2X:12:VAL:HG22	19:2X:29:TRP:CE2	2.45	0.52
29:27:34:ARG:HG3	29:27:34:ARG:HH11	1.74	0.52
32:2a:881:G:H2'	32:2a:882:C:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:58:GLU:HB2	34:2c:65:ALA:HB3	1.91	0.52
1:1A:122:G:OP1	1:1A:1422:C:O2'	2.17	0.52
1:1A:1846:A:P	3:1D:54:ARG:HH22	2.33	0.52
1:1A:2169:G:H2'	1:1A:2170:G:H4'	1.91	0.52
8:1I:62:LYS:O	8:1I:66:GLU:HG2	2.09	0.52
30:18:33:ASN:HA	30:18:36:LYS:HD2	1.91	0.52
1:2A:911:A:N6	12:2Q:11:LYS:O	2.37	0.52
1:2A:992:C:OP1	16:2U:47:TYR:OH	2.26	0.52
1:2A:2818:G:OP2	13:2R:42:LYS:NZ	2.29	0.52
12:2Q:29:PHE:HB3	12:2Q:65:PHE:CD2	2.45	0.52
15:2T:109:GLU:HG2	15:2T:112:ARG:NH2	2.24	0.52
21:2Z:31:ARG:HH11	21:2Z:94:GLU:HG2	1.73	0.52
31:29:25:VAL:HB	31:29:34:GLN:HB2	1.92	0.52
32:2a:652:U:O2'	32:2a:653:A:OP2	2.24	0.52
55:2x:66:C:H2'	55:2x:67:C:O4'	2.10	0.52
4:1E:56:PRO:HG3	4:1E:74:PRO:HG2	1.91	0.52
16:1U:81:HIS:CE1	16:1U:85:LYS:HD2	2.44	0.52
32:1a:619:U:N3	35:1d:134:ASP:OD1	2.39	0.52
34:1c:52:LEU:HD21	34:1c:55:VAL:HG23	1.92	0.52
37:1f:100:ASN:HB2	49:1r:28:GLU:HA	1.91	0.52
50:1s:51:VAL:O	50:1s:58:VAL:N	2.38	0.52
3:2D:85:ASP:OD2	3:2D:88:ARG:NH1	2.42	0.52
7:2H:103:LEU:HB3	7:2H:115:VAL:HB	1.91	0.52
12:2Q:81:VAL:HB	22:20:7:LEU:HD21	1.91	0.52
32:2a:1073:U:O2	33:2b:104:ASN:ND2	2.43	0.52
32:2a:1104:G:O3'	33:2b:111:ARG:NH2	2.42	0.52
32:2a:1241:G:H2'	32:2a:1242:C:C6	2.45	0.52
32:2a:1376:U:H2'	32:2a:1377:A:C8	2.45	0.52
44:2m:89:GLY:O	44:2m:93:ARG:HG3	2.09	0.52
1:1A:560:C:O3'	16:1U:53:ARG:NH1	2.43	0.52
1:1A:2130:C:H2'	1:1A:2131:U:C6	2.44	0.52
8:1I:101:LEU:HG	8:1I:107:VAL:HG13	1.92	0.52
1:2A:568:U:H5'	1:2A:945:A:N1	2.25	0.52
10:2O:63:VAL:HG11	10:2O:85:VAL:HG23	1.92	0.52
32:2a:1025:U:H3	32:2a:1036:G:H1	1.57	0.52
32:2a:1305:G:H5'	52:2u:4:GLY:HA3	1.92	0.52
40:2i:8:GLY:HA3	40:2i:76:ALA:O	2.10	0.52
49:2r:53:ARG:HG2	49:2r:63:GLN:HE21	1.75	0.52
54:2y:18:G:N2	54:2y:55:PSU:C4	2.73	0.52
1:1A:1255:A:H5''	1:1A:1257:G:O4'	2.10	0.52
1:1A:2892:A:OP1	13:1R:96:ARG:NH1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:43:LEU:HD11	6:1G:153:ARG:HD2	1.92	0.52
35:1d:173:TRP:CD1	35:1d:173:TRP:H	2.28	0.52
1:2A:821:A:N1	61:2A:4150:HOH:O	2.34	0.52
7:2H:106:THR:HG22	7:2H:112:PRO:HB3	1.92	0.52
23:21:83:GLU:OE1	23:21:83:GLU:N	2.43	0.52
30:28:23:VAL:HG11	30:28:47:LYS:HD3	1.92	0.52
41:2j:8:LEU:HD13	41:2j:16:LEU:HD22	1.92	0.52
1:1A:1848:G:OP1	3:1D:88:ARG:NH2	2.43	0.52
8:1I:14:ASP:OD1	8:1I:15:VAL:N	2.43	0.52
32:1a:431:A:H2'	32:1a:432:A:O4'	2.10	0.52
32:1a:580:U:H2'	32:1a:581:G:O4'	2.09	0.52
32:1a:1442:G:H2'	32:1a:1442:G:N3	2.25	0.52
50:1s:41:VAL:HG22	50:1s:42:PRO:HD2	1.92	0.52
1:2A:322:A:OP1	5:2F:168:ARG:HD2	2.10	0.52
1:2A:1324:G:O2'	1:2A:1326:U:OP2	2.22	0.52
1:2A:1693:U:O2	3:2D:14:ARG:NH2	2.42	0.52
5:2F:40:GLN:NE2	5:2F:182:ASN:HB2	2.24	0.52
32:2a:188:C:H42	32:2a:189(L):G:H1	1.58	0.52
32:2a:447:G:O6	32:2a:485:G:O2'	2.22	0.52
32:2a:596:C:H2'	32:2a:597:G:H8	1.75	0.52
32:2a:921:U:O2	36:2e:19:MET:HB2	2.10	0.52
33:2b:178:ARG:NH2	39:2h:74:PRO:HB3	2.25	0.52
54:2w:39:PSU:H2'	54:2w:40:C:H6	1.74	0.52
1:1A:1633:A:H2'	1:1A:1634:C:C6	2.45	0.52
1:1A:2283:G:OP1	22:10:18:ALA:HB1	2.10	0.52
3:1D:69:ARG:NH1	3:1D:128:GLY:O	2.34	0.52
17:1V:43:GLU:OE1	17:1V:43:GLU:N	2.43	0.52
19:1X:9:LEU:HA	24:12:36:ARG:HH21	1.74	0.52
1:2A:361:G:O2'	1:2A:362:U:H5'	2.10	0.52
32:2a:646:U:H2'	32:2a:647:C:H6	1.75	0.52
32:2a:1024:G:H2'	32:2a:1025:U:H5''	1.91	0.52
40:2i:46:ALA:HB2	40:2i:74:ILE:HG23	1.91	0.52
41:2j:55:LYS:O	41:2j:57:LYS:N	2.42	0.52
1:1A:238:C:O2	30:18:12:LYS:NZ	2.39	0.51
1:1A:664:U:H2'	1:1A:665:C:C6	2.45	0.51
1:1A:1825:U:H2'	1:1A:1826:C:H6	1.75	0.51
3:1D:3:VAL:HG13	3:1D:17:THR:HB	1.91	0.51
32:1a:228:A:H4'	47:1p:62:VAL:HG11	1.91	0.51
34:1c:20:SER:OG	34:1c:40:ARG:NH2	2.43	0.51
43:1l:70:ILE:HG12	43:1l:100:ILE:HD12	1.92	0.51
45:1n:48:ALA:HB2	45:1n:53:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:2H:88:LEU:HD21	7:2H:165:ALA:HA	1.91	0.51
16:2U:104:GLN:NE2	16:2U:105:VAL:HG23	2.25	0.51
32:2a:7:G:H5'	32:2a:298:A:O4'	2.09	0.51
1:1A:559:U:H2'	1:1A:560:C:C6	2.45	0.51
1:1A:945:A:H2'	1:1A:945:A:N3	2.25	0.51
1:1A:2372:A:H2'	1:1A:2373:A:O4'	2.09	0.51
1:1A:2564:2MU:O5'	1:1A:2564:2MU:H6	2.10	0.51
13:1R:28:LEU:HD23	13:1R:48:VAL:HG21	1.91	0.51
13:1R:44:LEU:HD22	13:1R:48:VAL:HG23	1.92	0.51
30:18:29:LYS:HE2	30:18:45:GLY:HA2	1.92	0.51
1:2A:455:C:N3	1:2A:472:A:H2'	2.25	0.51
3:2D:26:LYS:HE2	3:2D:28:GLU:O	2.09	0.51
15:2T:26:ASP:O	15:2T:49:VAL:HG22	2.10	0.51
32:2a:299:G:O6	61:2a:3313:HOH:O	2.16	0.51
32:2a:375:U:OP1	47:2p:69:THR:HG21	2.10	0.51
32:2a:1080:A:OP1	36:2e:47:LYS:HD3	2.10	0.51
32:2a:1270:C:H2'	32:2a:1271:G:H8	1.75	0.51
32:2a:1349:A:H2'	32:2a:1350:A:H8	1.75	0.51
35:2d:191:ARG:NH1	35:2d:194:LEU:O	2.40	0.51
11:1P:126:VAL:HG12	11:1P:148:LEU:HD23	1.91	0.51
35:1d:79:PHE:CE1	35:1d:204:ILE:HD13	2.45	0.51
1:2A:994:C:OP2	16:2U:54:LYS:NZ	2.36	0.51
1:2A:1141:U:OP2	9:2N:63:THR:OG1	2.18	0.51
15:2T:127:ALA:C	15:2T:129:ARG:H	2.18	0.51
32:2a:328:C:H4'	32:2a:329:A:H5'	1.91	0.51
32:2a:539:A:H2'	32:2a:540:G:H8	1.74	0.51
32:2a:1286:A:C8	32:2a:1287:A:H4'	2.45	0.51
1:1A:427:G:O6	61:1A:4344:HOH:O	2.16	0.51
3:1D:242:ARG:HG3	3:1D:242:ARG:NH1	2.08	0.51
7:1H:164:TYR:HB2	7:1H:167:GLU:HB2	1.93	0.51
32:1a:313:A:H2'	32:1a:314:C:C6	2.45	0.51
48:1q:53:LEU:HD23	48:1q:82:MET:HE1	1.93	0.51
1:2A:656:G:H2'	1:2A:657:U:O4'	2.10	0.51
1:2A:1406:U:H2'	1:2A:1407:C:C6	2.45	0.51
1:2A:1530:C:O2'	1:2A:1531:C:O5'	2.18	0.51
1:2A:1693:U:C1'	3:2D:14:ARG:HH22	2.20	0.51
5:2F:164:ARG:O	5:2F:168:ARG:HB2	2.10	0.51
6:2G:138:GLN:OE1	6:2G:138:GLN:N	2.42	0.51
32:2a:409:G:OP1	35:2d:24:GLU:N	2.43	0.51
32:2a:580:U:H5''	46:2o:58:MET:HG2	1.92	0.51
35:2d:15:GLU:OE2	35:2d:66:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:831:A:O4'	3:1D:227:ASN:ND2	2.43	0.51
1:1A:831:A:N6	3:1D:229:VAL:HG11	2.26	0.51
32:1a:438:G:H4'	35:1d:123:HIS:CE1	2.46	0.51
32:1a:544:G:OP1	35:1d:59:ARG:NH2	2.41	0.51
32:1a:1239:A:H62	32:1a:1299:A:N6	2.09	0.51
54:1y:40:C:H2'	54:1y:41:C:H6	1.76	0.51
1:2A:1005:C:H2'	1:2A:1006:C:H6	1.75	0.51
1:2A:2127:G:C6	1:2A:2161:C:C4	2.94	0.51
1:2A:2328:A:H2'	1:2A:2329:G:C8	2.45	0.51
1:2A:2727:G:O2'	10:2O:70:LYS:NZ	2.40	0.51
10:2O:9:GLU:OE1	10:2O:9:GLU:N	2.43	0.51
32:2a:595:G:H1'	32:2a:596:C:H5	1.74	0.51
32:2a:673:G:O3'	37:2f:87:ARG:NH2	2.43	0.51
40:2i:70:LYS:O	40:2i:74:ILE:HG13	2.10	0.51
1:1A:715:G:H5'	1:1A:716:G:OP2	2.11	0.51
1:1A:1074:A:N6	1:1A:1171:G:H2'	2.25	0.51
1:1A:1825:U:H2'	1:1A:1826:C:C6	2.45	0.51
1:1A:2579:G:H2'	1:1A:2580:C:C6	2.45	0.51
5:1F:107:LYS:HE3	5:1F:206:ILE:HA	1.93	0.51
8:1I:126:TYR:HB2	8:1I:142:VAL:HG23	1.93	0.51
32:1a:401:C:P	35:1d:73:ARG:HH21	2.34	0.51
41:1j:31:GLY:HA2	41:1j:32:ALA:O	2.11	0.51
54:1w:1:G:O6	54:1w:72:C:N3	2.43	0.51
1:2A:1147:C:H2'	1:2A:1148:A:H8	1.75	0.51
1:2A:2141:G:H2'	1:2A:2142:C:O4'	2.11	0.51
1:2A:2404:C:O3'	11:2P:77:ARG:NH2	2.43	0.51
8:2I:130:TYR:HB3	8:2I:138:ILE:HB	1.93	0.51
32:2a:1239:A:H62	32:2a:1299:A:H62	1.58	0.51
33:2b:80:ILE:HG12	33:2b:215:LEU:HD23	1.93	0.51
1:1A:477:C:OP1	5:1F:52:LYS:NZ	2.44	0.51
1:1A:1683:C:H2'	1:1A:1684:A:C8	2.46	0.51
1:1A:1827:U:H2'	1:1A:1828:C:C6	2.46	0.51
5:1F:33:LEU:HB3	11:1P:6:LEU:HD21	1.93	0.51
18:1W:34:ASN:OD1	18:1W:37:ARG:NH2	2.42	0.51
32:1a:130:A:N3	32:1a:263:A:O2'	2.41	0.51
32:1a:749:C:H2'	32:1a:750:G:H8	1.76	0.51
32:1a:1118:C:H1'	32:1a:1179:A:C4	2.46	0.51
38:1g:50:ILE:HD11	38:1g:61:VAL:HG21	1.92	0.51
1:2A:38:A:H2'	1:2A:39:C:C6	2.46	0.51
1:2A:903:C:H2'	1:2A:904:C:C6	2.45	0.51
1:2A:1711:C:H2'	1:2A:1712:C:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2379:G:O2'	14:2S:17:ARG:NH2	2.43	0.51
32:2a:1190:G:H5'	34:2c:176:HIS:HE1	1.75	0.51
1:1A:1101:G:N2	1:1A:1150:C:N3	2.47	0.51
1:1A:1312:G:O2'	1:1A:2034:G:O6	2.18	0.51
1:1A:1487:G:H2'	1:1A:1488:G:H8	1.76	0.51
32:1a:373:A:H2'	32:1a:374:A:H8	1.76	0.51
32:1a:625:G:H2'	32:1a:626:U:C6	2.46	0.51
32:1a:742:G:OP2	46:1o:35:ARG:NH2	2.37	0.51
41:1j:57:LYS:HE2	41:1j:60:ARG:NH2	2.25	0.51
54:1y:23:A:H2'	54:1y:24:G:C8	2.46	0.51
1:2A:96:G:H4'	24:22:48:HIS:CD2	2.46	0.51
1:2A:978:G:HO2'	1:2A:1002:G:HO2'	1.59	0.51
1:2A:2250:G:O2'	1:2A:2496:C:OP1	2.23	0.51
2:2B:70:C:H2'	2:2B:71:C:H6	1.76	0.51
27:25:16:ARG:HG3	27:25:17:ASP:N	2.26	0.51
32:2a:34:C:H2'	32:2a:35:G:C8	2.46	0.51
32:2a:1277:C:O2'	32:2a:1279:A:H1'	2.11	0.51
35:2d:108:LEU:HB3	35:2d:110:PHE:CE1	2.46	0.51
46:2o:87:ILE:O	46:2o:88:ARG:HB3	2.11	0.51
54:2y:55:PSU:N1	54:2y:57:G:H5''	2.23	0.51
1:1A:964:A:N3	2:1B:80:U:O2'	2.38	0.51
1:1A:2707:C:H2'	1:1A:2708:U:C6	2.46	0.51
15:1T:109:GLU:O	15:1T:113:LYS:HG2	2.11	0.51
1:2A:236:C:H2'	1:2A:237:C:H6	1.75	0.51
1:2A:1220:A:OP2	16:2U:19:LYS:NZ	2.40	0.51
2:2B:51:G:N7	14:2S:62:LYS:NZ	2.49	0.51
12:2Q:38:GLU:HA	12:2Q:99:PRO:HG3	1.93	0.51
32:2a:434:U:H2'	32:2a:435:C:C6	2.46	0.51
32:2a:1004:A:N6	32:2a:1037:C:H1'	2.25	0.51
32:2a:1312:G:H5'	50:2s:5:LEU:HD11	1.92	0.51
33:2b:16:HIS:CG	33:2b:17:PHE:N	2.78	0.51
1:1A:1544:C:OP1	61:1A:4362:HOH:O	2.19	0.51
6:1G:34:LEU:HD23	6:1G:161:THR:HG22	1.91	0.51
43:1l:53:ARG:HG3	43:1l:93:LEU:HD21	1.93	0.51
45:1n:39:LEU:HD11	45:1n:47:LEU:HD12	1.93	0.51
54:1y:8:4SU:H4'	54:1y:48:C:H4'	1.93	0.51
1:2A:1299:G:OP1	61:2A:4062:HOH:O	2.20	0.51
1:2A:1839:G:C8	1:2A:1927:A:H1'	2.46	0.51
1:2A:2154:G:H2'	1:2A:2155:G:H5'	1.93	0.51
3:2D:11:PRO:O	3:2D:14:ARG:HG2	2.11	0.51
4:2E:14:ILE:HG13	4:2E:21:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:5:LEU:HB2	21:2Z:47:VAL:HG21	1.93	0.51
44:2m:92:HIS:CE1	44:2m:98:VAL:HG21	2.46	0.51
1:1A:2631:C:H4'	4:1E:151:TYR:O	2.12	0.50
7:1H:56:SER:HB3	7:1H:61:HIS:ND1	2.26	0.50
15:1T:127:ALA:C	15:1T:129:ARG:H	2.18	0.50
32:1a:381:C:H2'	32:1a:382:A:O4'	2.11	0.50
1:2A:1812:A:H5''	61:2A:4033:HOH:O	2.11	0.50
6:2G:47:LYS:HG3	6:2G:48:GLU:H	1.75	0.50
7:2H:3:ARG:HH12	7:2H:6:ARG:N	2.09	0.50
11:2P:43:GLY:HA3	61:2P:303:HOH:O	2.11	0.50
21:2Z:93:ASP:HA	21:2Z:131:ARG:HH22	1.75	0.50
22:20:11:ARG:O	22:20:14:ARG:NH2	2.34	0.50
32:2a:67:C:H2'	32:2a:68:G:C8	2.45	0.50
33:2b:189:ASP:O	33:2b:192:SER:OG	2.23	0.50
40:2i:31:GLN:HE21	40:2i:36:TYR:HD1	1.59	0.50
51:2t:9:ASN:O	51:2t:10:LEU:HB2	2.09	0.50
1:1A:574:G:O2'	1:1A:1265:A:N3	2.40	0.50
1:1A:1800:G:O2'	1:1A:1980:C:OP1	2.27	0.50
1:1A:1821:C:H2'	1:1A:1822:A:C5	2.47	0.50
1:1A:2807:C:N4	1:1A:2813:G:H22	2.07	0.50
9:1N:21:LYS:NZ	9:1N:140:VAL:OXT	2.37	0.50
51:1t:10:LEU:HB3	51:1t:12:ALA:H	1.76	0.50
54:1w:4:C:H2'	54:1w:5:G:C8	2.41	0.50
1:2A:301:G:OP2	20:2Y:84:ARG:NH2	2.44	0.50
1:2A:774:A:H2'	1:2A:774:A:N3	2.26	0.50
1:2A:1599:C:OP1	61:2A:4058:HOH:O	2.19	0.50
1:2A:1924:C:H4'	55:2x:13:C:O2'	2.10	0.50
7:2H:80:SER:OG	7:2H:81:GLU:OE1	2.24	0.50
35:2d:15:GLU:OE2	35:2d:59:ARG:NH1	2.44	0.50
41:2j:32:ALA:HB1	41:2j:33:GLN:HA	1.91	0.50
21:1Z:138:GLU:H	21:1Z:156:LYS:NZ	2.08	0.50
32:1a:757:U:H2'	32:1a:758:G:O4'	2.10	0.50
32:1a:925:G:H1'	32:1a:1502:A:C4	2.46	0.50
32:1a:1030(C):G:H2'	32:1a:1030(D):A:C8	2.46	0.50
35:1d:65:ARG:HG2	35:1d:75:PHE:CD1	2.46	0.50
6:2G:16:ARG:HB2	6:2G:17:PRO:HD3	1.94	0.50
10:2O:7:TYR:HE1	10:2O:20:MET:HE3	1.76	0.50
32:2a:837:G:H1	32:2a:849:C:N4	2.09	0.50
36:2e:145:LYS:O	36:2e:149:GLU:HG2	2.11	0.50
46:2o:4:THR:OG1	46:2o:7:GLU:OE1	2.29	0.50
1:1A:991:G:OP1	61:1A:4360:HOH:O	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:236:G:H5''	48:1q:42:TYR:OH	2.11	0.50
32:1a:637:G:H2'	32:1a:638:G:H8	1.75	0.50
32:1a:1148:U:H2'	32:1a:1149:C:O4'	2.11	0.50
42:1k:62:GLN:O	42:1k:66:LEU:HG	2.11	0.50
1:2A:286:C:H2'	1:2A:287:C:C6	2.47	0.50
1:2A:1799:G:O3'	3:2D:183:ARG:NH1	2.40	0.50
1:2A:2114:A:H62	1:2A:2115:G:N2	2.06	0.50
26:24:16:CYS:SG	26:24:17:GLY:N	2.84	0.50
32:2a:1108:G:H5'	34:2c:176:HIS:CD2	2.47	0.50
32:2a:1403:C:C2	32:2a:1404:5MC:HM52	2.46	0.50
34:2c:121:ALA:HB2	34:2c:198:VAL:HG21	1.92	0.50
45:2n:48:ALA:HB2	45:2n:53:LEU:HD12	1.93	0.50
1:1A:609:A:N1	1:1A:856:G:O2'	2.40	0.50
1:1A:1049:G:O2'	1:1A:1056:A:N1	2.38	0.50
1:1A:2128:G:H2'	1:1A:2129:C:C6	2.46	0.50
32:1a:501:C:OP1	43:1l:117:ARG:NH2	2.41	0.50
33:1b:12:GLU:HG3	33:1b:44:LEU:HD23	1.93	0.50
33:1b:97:TRP:HH2	33:1b:176:GLU:CD	2.18	0.50
35:1d:111:ALA:HB1	35:1d:116:GLN:HG3	1.93	0.50
1:2A:1503:U:H2'	1:2A:1504:C:C6	2.45	0.50
1:2A:2061:G:H5''	1:2A:2503:2MA:C2	2.42	0.50
33:2b:114:ARG:NH1	33:2b:117:GLU:OE1	2.45	0.50
1:1A:1346:U:H4'	1:1A:1347:A:H5''	1.93	0.50
5:1F:185:ASP:OD1	5:1F:188:ARG:NH1	2.41	0.50
7:1H:3:ARG:HH11	7:1H:4:ILE:H	1.60	0.50
8:1I:79:ILE:HB	8:1I:144:VAL:HG12	1.93	0.50
21:1Z:138:GLU:H	21:1Z:156:LYS:HZ1	1.58	0.50
32:1a:738:C:H2'	32:1a:739:C:H6	1.76	0.50
32:1a:993:G:O2'	32:1a:994:A:N7	2.44	0.50
1:2A:307:G:H21	1:2A:330:A:H62	1.60	0.50
1:2A:1778:U:H2'	1:2A:1784:A:N6	2.26	0.50
32:2a:1010:G:H2'	32:2a:1011:G:H8	1.77	0.50
32:2a:1191:A:OP2	34:2c:3:ASN:ND2	2.44	0.50
32:2a:1346:A:N1	32:2a:1374:A:H5''	2.27	0.50
32:2a:1399:C:H4'	32:2a:1400:5MC:C5'	2.22	0.50
32:2a:1502:A:N7	32:2a:1505:G:N2	2.60	0.50
1:1A:1501:U:OP1	13:1R:77:ARG:NH1	2.34	0.50
1:1A:2441:G:OP1	61:1A:4301:HOH:O	2.19	0.50
4:1E:24:THR:HG22	4:1E:186:GLY:O	2.11	0.50
54:1y:36:A:H2'	54:1y:37:MIA:O4'	2.12	0.50
1:2A:212:G:H2'	1:2A:213:A:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:892:G:H3'	1:2A:893:C:C5'	2.42	0.50
1:2A:1603:A:OP1	61:2A:4061:HOH:O	2.19	0.50
1:2A:2074:U:O4	61:2A:4049:HOH:O	2.17	0.50
26:24:41:PRO:HG3	26:24:49:PHE:CZ	2.47	0.50
32:2a:1119:C:H2'	32:2a:1120:G:H8	1.77	0.50
32:2a:1323:G:H2'	32:2a:1324:A:C8	2.47	0.50
37:2f:69:GLU:CD	37:2f:69:GLU:H	2.20	0.50
38:2g:97:GLN:O	38:2g:101:LEU:HG	2.12	0.50
41:2j:61:GLU:OE1	45:2n:45:ARG:NE	2.36	0.50
44:2m:91:ARG:O	44:2m:96:LEU:N	2.44	0.50
47:2p:17:TYR:HE2	47:2p:41:PRO:HG3	1.77	0.50
24:12:65:ASN:OD1	24:12:69:ARG:NH1	2.45	0.50
32:1a:974:A:H8	32:1a:974:A:OP1	1.95	0.50
32:1a:1003:G:C4	32:1a:1004:A:H2	2.29	0.50
2:2B:41:U:H5	6:2G:70:VAL:H	1.60	0.50
29:27:30:VAL:O	29:27:34:ARG:HG2	2.12	0.50
32:2a:1288:A:N3	32:2a:1352:C:O2'	2.41	0.50
40:2i:4:TYR:HB2	40:2i:19:LEU:HB2	1.94	0.50
1:1A:439:A:O5'	1:1A:439:A:H8	1.94	0.50
1:1A:2255:U:OP1	61:1A:4366:HOH:O	2.20	0.50
32:1a:690:G:C6	32:1a:691:G:C6	3.00	0.50
38:1g:119:ARG:NH1	61:1g:201:HOH:O	2.45	0.50
6:2G:179:PRO:HB2	26:24:42:PHE:CE2	2.41	0.50
7:2H:56:SER:HB3	7:2H:61:HIS:ND1	2.27	0.50
7:2H:73:ALA:O	7:2H:76:VAL:HG22	2.12	0.50
7:2H:84:SER:HB3	7:2H:132:ARG:HH11	1.77	0.50
28:26:6:ARG:NH1	28:26:26:ASN:HB2	2.26	0.50
1:1A:578:U:O2'	1:1A:579:G:N7	2.45	0.49
1:1A:2289:G:OP2	22:10:10:THR:HG21	2.12	0.49
1:1A:2763:A:OP2	7:1H:62:LYS:NZ	2.37	0.49
2:1B:8:U:O3'	14:1S:25:ARG:NH2	2.45	0.49
32:1a:193:C:H2'	32:1a:194:C:H6	1.77	0.49
32:1a:920:U:H2'	32:1a:921:U:C6	2.47	0.49
49:1r:52:PRO:HB2	49:1r:54:ARG:HG2	1.93	0.49
1:2A:305:U:O5'	1:2A:305:U:H6	1.95	0.49
1:2A:586:A:N1	1:2A:809:G:O2'	2.36	0.49
1:2A:1996:C:H4'	1:2A:1997:G:OP1	2.11	0.49
7:2H:125:VAL:HG12	7:2H:131:VAL:HG22	1.94	0.49
32:2a:407:G:OP1	35:2d:115:ARG:HD3	2.11	0.49
54:2w:63:G:H2'	54:2w:64:A:H5''	1.94	0.49
1:1A:2899:C:H2'	1:1A:2900:G:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1D:11:PRO:O	3:1D:14:ARG:HG2	2.12	0.49
11:1P:91:PHE:O	11:1P:121:LYS:NZ	2.31	0.49
22:10:11:ARG:HH12	55:1x:63:G:H5'	1.76	0.49
43:1l:33:ARG:HG2	43:1l:60:LEU:HD23	1.94	0.49
54:1y:52:G:H2'	54:1y:53:G:C8	2.47	0.49
1:2A:253:C:OP2	30:28:5:LYS:NZ	2.42	0.49
1:2A:613:G:O2'	1:2A:614(C):A:N1	2.36	0.49
1:2A:1218:C:H42	1:2A:1231:G:H1	1.57	0.49
1:2A:1271:G:OP2	61:2A:4005:HOH:O	2.18	0.49
1:2A:2466:C:H5'	31:29:5:ALA:HB3	1.94	0.49
2:2B:3:C:H2'	2:2B:4:C:C6	2.47	0.49
2:2B:40:U:H2'	26:24:2:LYS:HE3	1.93	0.49
11:2P:59:LEU:HD21	30:28:10:ALA:HA	1.93	0.49
26:24:15:ILE:HB	26:24:32:TYR:CD1	2.45	0.49
32:2a:12:U:H4'	32:2a:526:C:O2'	2.13	0.49
33:2b:84:GLU:HB3	33:2b:219:VAL:HG21	1.94	0.49
37:2f:91:VAL:HG11	49:2r:72:ARG:NH1	2.27	0.49
54:2w:39:PSU:H2'	54:2w:40:C:C6	2.47	0.49
1:1A:346:A:OP2	5:1F:169:ASN:HB2	2.12	0.49
9:1N:62:VAL:HG22	9:1N:66:LYS:HD2	1.94	0.49
32:1a:657:G:O4'	46:1o:28:GLN:NE2	2.39	0.49
32:1a:997:U:H3	32:1a:1044:A:N6	2.10	0.49
32:1a:1356:G:H2'	32:1a:1357:A:C8	2.46	0.49
32:1a:1442:G:O2'	32:1a:1442(A):G:H5'	2.11	0.49
35:1d:15:GLU:OE2	35:1d:66:ARG:NH1	2.45	0.49
54:1y:52:G:H2'	54:1y:53:G:H8	1.77	0.49
1:2A:1410:G:H2'	1:2A:1411:C:H6	1.76	0.49
1:2A:2127:G:H2'	1:2A:2128:C:H6	1.77	0.49
16:2U:97:ASP:OD1	16:2U:101:ARG:NH1	2.46	0.49
20:2Y:56:PRO:C	20:2Y:58:GLY:H	2.20	0.49
32:2a:1135:U:H4'	32:2a:1136:U:H5	1.78	0.49
1:1A:721:G:O2'	5:1F:74:ARG:HD3	2.13	0.49
1:1A:1864:U:O2'	1:1A:1991:A:N1	2.43	0.49
13:1R:33:ARG:NH2	27:15:57:VAL:O	2.34	0.49
32:1a:353:A:H5'	32:1a:353:A:H8	1.77	0.49
32:1a:1080:A:OP1	36:1e:47:LYS:HD3	2.12	0.49
1:2A:89:G:H3'	1:2A:90:U:H5''	1.95	0.49
1:2A:918:A:O2'	2:2B:97:G:N2	2.44	0.49
1:2A:1410:G:H2'	1:2A:1411:C:C6	2.47	0.49
1:2A:2059:A:H2'	1:2A:2503:2MA:HM23	1.93	0.49
3:2D:8:PRO:HB3	3:2D:14:ARG:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:55:HIS:HE1	21:2Z:135:GLU:HB2	1.77	0.49
32:2a:1319:A:H61	32:2a:1361:G:H21	1.61	0.49
34:2c:131:ARG:HH11	34:2c:166:GLU:HG2	1.76	0.49
38:2g:59:LEU:HG	38:2g:63:LYS:HE2	1.94	0.49
1:1A:7:G:H5''	9:1N:121:LYS:HE3	1.93	0.49
1:1A:1105:G:N2	1:1A:1125:C:N3	2.55	0.49
1:1A:2764:G:C4	7:1H:2:SER:HA	2.47	0.49
1:1A:2797:C:H1'	4:1E:37:ARG:HH12	1.78	0.49
8:1I:93:THR:H	8:1I:96:ASP:HB2	1.77	0.49
24:12:22:GLU:OE2	24:12:68:ARG:NH2	2.45	0.49
32:1a:78:G:N2	32:1a:91:C:C2	2.81	0.49
32:1a:171:A:H2'	32:1a:172:A:H8	1.75	0.49
32:1a:236:G:OP1	48:1q:40:LYS:NZ	2.40	0.49
32:1a:1531:A:H8	32:1a:1531:A:O5'	1.95	0.49
41:1j:8:LEU:HD11	41:1j:20:ALA:HB2	1.95	0.49
41:1j:35:SER:HB3	41:1j:73:ASP:HB2	1.94	0.49
48:1q:45:HIS:H	48:1q:72:ARG:HA	1.78	0.49
1:2A:2129:C:H5'	1:2A:2130:U:OP2	2.13	0.49
1:2A:2390:U:P	30:28:35:GLN:HE22	2.36	0.49
1:2A:2812:G:H2'	1:2A:2813:A:C8	2.48	0.49
4:2E:119:ARG:CG	4:2E:119:ARG:HH11	2.25	0.49
27:25:51:TYR:CE2	27:25:56:LYS:HD3	2.48	0.49
32:2a:373:A:H2'	32:2a:374:A:H8	1.78	0.49
32:2a:444:C:H2'	32:2a:445:G:C8	2.47	0.49
1:1A:16:G:N2	61:1A:4561:HOH:O	2.43	0.49
1:1A:419:C:OP1	61:1A:4367:HOH:O	2.20	0.49
1:1A:794:U:O2	1:1A:2036:A:H1'	2.12	0.49
1:1A:863:C:OP2	61:1A:4361:HOH:O	2.19	0.49
1:1A:2129:C:N4	1:1A:2204:G:H1	2.11	0.49
1:1A:2198:A:H2'	1:1A:2199:C:C6	2.48	0.49
14:1S:27:SER:HA	14:1S:88:ASP:HB3	1.93	0.49
32:1a:648:A:H2'	32:1a:649:G:H8	1.76	0.49
32:1a:1204:A:OP1	61:1a:2028:HOH:O	2.20	0.49
50:1s:80:TYR:CZ	50:1s:82:GLY:HA2	2.47	0.49
1:2A:784:A:C6	3:2D:229:VAL:HG11	2.48	0.49
1:2A:1837:C:OP1	32:2a:784:C:H4'	2.13	0.49
2:2B:103:G:H21	21:2Z:73:GLN:NE2	2.11	0.49
32:2a:757:U:H2'	32:2a:758:G:O4'	2.12	0.49
32:2a:881:G:P	43:2l:12:ARG:HH22	2.35	0.49
1:1A:1140:U:H1'	1:1A:1143:U:C5	2.48	0.49
1:1A:2041:A:O4'	16:1U:34:LYS:HE3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2297:C:OP2	28:16:6:ARG:NH1	2.46	0.49
4:1E:174:ASP:OD1	4:1E:175:VAL:N	2.44	0.49
32:1a:78:G:C2	32:1a:91:C:N3	2.80	0.49
32:1a:1007:C:H2'	32:1a:1008:C:C6	2.48	0.49
1:2A:71:A:H5''	1:2A:73:A:C8	2.48	0.49
1:2A:783:A:OP2	61:2A:4060:HOH:O	2.19	0.49
1:2A:2025:C:OP2	61:2A:4064:HOH:O	2.20	0.49
20:2Y:6:HIS:H	20:2Y:6:HIS:CD2	2.31	0.49
19:1X:61:GLY:HA3	19:1X:73:ARG:O	2.12	0.49
26:14:53:GLU:HB2	26:14:55:ARG:HA	1.95	0.49
32:1a:975:A:H5'	32:1a:975:A:H8	1.78	0.49
32:1a:1002:G:N2	32:1a:1004:A:O2'	2.45	0.49
32:1a:1510:U:H2'	32:1a:1511:G:C8	2.48	0.49
33:1b:24:TRP:CZ3	33:1b:26:PRO:HA	2.48	0.49
34:1c:131:ARG:HH21	36:1e:50:GLU:HG3	1.78	0.49
1:2A:1449:A:O2'	1:2A:1529:G:N2	2.38	0.49
1:2A:2687:U:H2'	1:2A:2688:U:O4'	2.13	0.49
12:2Q:36:ALA:HB2	12:2Q:103:MET:SD	2.52	0.49
32:2a:8:A:H5'	36:2e:101:ILE:HG22	1.94	0.49
32:2a:1073:U:O2'	33:2b:104:ASN:OD1	2.19	0.49
32:2a:1119:C:H2'	32:2a:1120:G:C8	2.48	0.49
43:2l:48:PRO:HB3	53:2v:21:C:H4'	1.95	0.49
54:2w:51:U:H2'	54:2w:52:G:H8	1.77	0.49
1:1A:1477:U:H2'	1:1A:1478:C:C6	2.48	0.49
1:1A:1717:C:O2	4:1E:129:HIS:NE2	2.39	0.49
15:1T:24:PRO:HA	15:1T:49:VAL:HG23	1.95	0.49
32:1a:628:G:O6	61:1a:2025:HOH:O	2.18	0.49
39:1h:86:ILE:HG22	39:1h:93:VAL:HG21	1.95	0.49
41:1j:55:LYS:O	41:1j:57:LYS:N	2.46	0.49
1:2A:108:U:H2'	1:2A:109:G:H8	1.78	0.49
1:2A:1170:G:O6	1:2A:1180:C:N4	2.46	0.49
1:2A:2218:U:H1'	23:21:52:ARG:HH12	1.77	0.49
1:2A:2483:C:N3	12:2Q:124:LYS:NZ	2.57	0.49
1:2A:2658:C:P	7:2H:160:LYS:HZ1	2.36	0.49
32:2a:922:G:H4'	36:2e:20:GLN:HA	1.95	0.49
32:2a:1226:C:H4'	50:2s:80:TYR:CZ	2.47	0.49
43:2l:71:PRO:O	43:2l:102:ARG:HD2	2.12	0.49
54:2y:8:4SU:H1'	54:2y:48:C:H1'	1.94	0.49
1:1A:492:A:N3	1:1A:730:C:H1'	2.27	0.49
1:1A:1159:U:H2'	1:1A:1160:G:C8	2.48	0.49
1:1A:2717:A:N3	61:1A:4491:HOH:O	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1298:C:C5	38:1g:114:ARG:HD3	2.48	0.49
33:1b:158:LEU:HD21	33:1b:180:LEU:HD13	1.94	0.49
1:2A:817:C:O2'	1:2A:839:U:H5''	2.13	0.49
1:2A:2511:U:O2'	4:2E:138:PRO:O	2.26	0.49
4:2E:11:MET:HG2	4:2E:24:THR:HB	1.95	0.49
15:2T:24:PRO:HA	15:2T:49:VAL:HG23	1.94	0.49
34:2c:130:VAL:O	34:2c:134:ILE:HG12	2.13	0.49
1:1A:173:C:H2'	1:1A:174:U:C6	2.48	0.48
1:1A:1566:U:H2'	1:1A:1567:G:O4'	2.12	0.48
1:1A:2328:C:O2'	6:1G:128:ARG:NH2	2.45	0.48
1:1A:2798:C:OP1	4:1E:41:LYS:NZ	2.46	0.48
2:1B:2:C:H2'	2:1B:3:C:C6	2.48	0.48
32:1a:72:C:N3	32:1a:97:G:O6	2.46	0.48
32:1a:142:G:H2'	32:1a:143:A:H8	1.78	0.48
32:1a:266:G:H2'	32:1a:266:G:N3	2.27	0.48
32:1a:544:G:P	35:1d:59:ARG:HH22	2.35	0.48
32:1a:1118:C:OP1	40:1i:104:ARG:NH1	2.43	0.48
32:1a:1218:C:H2'	32:1a:1219:U:C6	2.48	0.48
40:1i:28:VAL:HG22	40:1i:63:ILE:HB	1.95	0.48
40:1i:53:VAL:HB	40:1i:92:TYR:CZ	2.48	0.48
54:1w:6:G:H1	54:1w:67:C:H42	0.66	0.48
54:1y:61:C:H2'	54:1y:62:C:C6	2.48	0.48
1:2A:17:G:H2'	1:2A:18:C:H6	1.78	0.48
1:2A:271(X):G:C2	1:2A:271(Y):U:O4	2.66	0.48
1:2A:848:G:H2'	1:2A:849:A:H8	1.76	0.48
1:2A:1031:G:N3	31:29:36:GLN:NE2	2.52	0.48
1:2A:1364:G:P	23:21:3:LYS:HG3	2.53	0.48
1:2A:2438:U:O2'	1:2A:2440:C:OP1	2.24	0.48
3:2D:77:ALA:HA	3:2D:97:TYR:HA	1.95	0.48
7:2H:137:ASP:HB3	7:2H:140:LYS:HB3	1.94	0.48
16:2U:83:LEU:HG	16:2U:88:ILE:HB	1.95	0.48
32:2a:130:A:O2'	32:2a:131:C:O5'	2.29	0.48
32:2a:662:G:H2'	32:2a:663:A:C8	2.48	0.48
38:2g:51:GLN:O	38:2g:55:GLY:HA2	2.12	0.48
39:2h:73:ASP:OD1	39:2h:75:ARG:NE	2.45	0.48
49:2r:66:LEU:O	49:2r:70:ILE:HG13	2.13	0.48
54:2y:26:A:C6	54:2y:44:G:O6	2.66	0.48
1:1A:242:C:OP2	30:18:5:LYS:NZ	2.37	0.48
1:1A:1473:A:H4'	1:1A:1474:C:O4'	2.13	0.48
1:1A:2442:A:H2'	1:1A:2442:A:N3	2.27	0.48
7:1H:124:GLU:OE2	7:1H:132:ARG:HD2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:738:C:H2'	32:1a:739:C:C6	2.48	0.48
33:1b:178:ARG:NH2	39:1h:74:PRO:HB3	2.28	0.48
44:1m:87:TYR:O	44:1m:91:ARG:HG2	2.12	0.48
1:2A:320:A:H4'	1:2A:322:A:N7	2.28	0.48
1:2A:1010:A:N3	1:2A:1153:C:H1'	2.28	0.48
1:2A:1472:A:H2'	1:2A:1473:G:O4'	2.14	0.48
2:2B:13:A:O2'	2:2B:14:U:H3'	2.14	0.48
32:2a:920:U:H2'	32:2a:921:U:H6	1.77	0.48
32:2a:978:A:N6	32:2a:1318:A:N7	2.60	0.48
32:2a:1129:C:H1'	32:2a:1130:A:N7	2.28	0.48
32:2a:1305:G:N2	32:2a:1331:G:H1'	2.28	0.48
40:2i:23:ASN:ND2	40:2i:25:LYS:HG2	2.27	0.48
46:2o:80:ALA:O	46:2o:83:GLU:HG2	2.13	0.48
1:1A:302:A:H2'	1:1A:303:C:C6	2.49	0.48
1:1A:1465:A:O2'	1:1A:1467:G:N7	2.45	0.48
1:1A:1829:U:H5'	3:1D:259:THR:CG2	2.43	0.48
1:1A:2127:C:H2'	1:1A:2128:G:C8	2.48	0.48
1:1A:2162:C:O2	1:1A:2173:G:N1	2.34	0.48
29:17:30:VAL:O	29:17:34:ARG:HG3	2.12	0.48
32:1a:92:C:H2'	32:1a:93:G:C8	2.48	0.48
32:1a:711:G:H2'	32:1a:712:A:C8	2.48	0.48
32:1a:1060:C:C5	34:1c:2:GLY:HA3	2.48	0.48
36:1e:146:ALA:O	36:1e:150:ARG:HG3	2.14	0.48
43:1l:84:LEU:HB2	43:1l:105:TYR:CE2	2.48	0.48
54:1y:6:G:O6	54:1y:7:A:N6	2.47	0.48
54:1y:63:G:H2'	54:1y:64:A:O4'	2.13	0.48
1:2A:882:G:H2'	1:2A:883:G:C8	2.45	0.48
1:2A:1036:G:H1	1:2A:1119:C:H42	1.60	0.48
1:2A:2503:2MA:OP2	61:2A:4063:HOH:O	2.20	0.48
3:2D:206:LEU:O	3:2D:211:ARG:HD3	2.13	0.48
14:2S:27:SER:HA	14:2S:88:ASP:HB3	1.95	0.48
17:2V:62:LEU:HD11	17:2V:95:LEU:HB2	1.95	0.48
26:24:44:THR:O	26:24:46:GLN:N	2.46	0.48
32:2a:22:G:H2'	32:2a:23:C:C6	2.48	0.48
32:2a:409:G:H1	32:2a:433:C:H42	1.61	0.48
32:2a:620:C:H2'	32:2a:621:A:O4'	2.12	0.48
32:2a:1010:G:H2'	32:2a:1011:G:C8	2.48	0.48
37:2f:1:MET:N	37:2f:69:GLU:OE2	2.45	0.48
40:2i:99:LEU:HB3	40:2i:101:PHE:CE2	2.48	0.48
44:2m:10:PRO:HG2	44:2m:21:TYR:CD2	2.48	0.48
1:1A:929:G:H1	1:1A:940:C:H42	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2157:A:H2	1:1A:2158:C:C4	2.32	0.48
32:1a:812:C:O2	61:1a:2024:HOH:O	2.18	0.48
35:1d:175:SER:OG	35:1d:184:LYS:HB3	2.13	0.48
39:1h:41:ARG:NH2	39:1h:123:GLU:OE2	2.46	0.48
47:1p:17:TYR:HE2	47:1p:41:PRO:HG3	1.77	0.48
1:2A:658:C:H2'	1:2A:659:C:C6	2.48	0.48
1:2A:1463:C:H2'	1:2A:1464:C:C6	2.48	0.48
1:2A:1503:U:H2'	1:2A:1504:C:H6	1.78	0.48
1:2A:2316:C:O2'	6:2G:128:ARG:NH2	2.44	0.48
2:2B:66:A:H61	2:2B:109:C:H5''	1.77	0.48
3:2D:211:ARG:O	3:2D:215:LEU:HG	2.14	0.48
4:2E:72:VAL:HG12	4:2E:73:GLU:O	2.13	0.48
5:2F:192:LEU:HD22	5:2F:194:MET:HG3	1.95	0.48
29:27:34:ARG:NE	29:27:39:ARG:HG2	2.27	0.48
32:2a:142:G:H2'	32:2a:143:A:H8	1.77	0.48
32:2a:546:G:OP1	35:2d:73:ARG:HG2	2.14	0.48
32:2a:946:A:H2'	32:2a:947:G:C8	2.48	0.48
41:2j:44:VAL:HG22	41:2j:66:ARG:HG2	1.95	0.48
47:2p:72:ARG:HH21	47:2p:73:LEU:HD21	1.79	0.48
54:2y:33:U:H2'	54:2y:34:G:H5''	1.96	0.48
1:1A:2761:A:H5'	7:1H:4:ILE:HD12	1.96	0.48
12:1Q:85:LYS:HD3	22:10:7:LEU:HD13	1.94	0.48
32:1a:163:C:H2'	32:1a:164:U:C6	2.48	0.48
1:2A:118:A:N3	1:2A:178:G:H1'	2.29	0.48
1:2A:271(O):C:H2'	1:2A:271(P):C:C6	2.48	0.48
1:2A:1999:C:H4'	1:2A:2723:C:O2	2.13	0.48
1:2A:2338:G:H2'	1:2A:2339:G:H8	1.78	0.48
14:2S:14:VAL:O	14:2S:18:ILE:HG12	2.13	0.48
32:2a:1333:A:H2'	32:2a:1334:G:O4'	2.14	0.48
32:2a:1508:G:N1	32:2a:1527:C:N3	2.43	0.48
40:2i:55:ALA:HA	40:2i:58:HIS:HD2	1.78	0.48
54:2w:11:C:N4	54:2w:24:G:H1	2.10	0.48
55:2x:6:G:H1	55:2x:67:C:N4	2.11	0.48
54:2y:14:A:H3'	54:2y:15:G:H8	1.78	0.48
1:1A:1451:U:H2'	1:1A:1452:U:C6	2.49	0.48
1:1A:2877:G:OP2	15:1T:119:LYS:NZ	2.33	0.48
2:1B:108:U:H2'	2:1B:109:C:H5''	1.95	0.48
7:1H:11:VAL:HG21	7:1H:50:VAL:HG23	1.95	0.48
1:2A:272(B):G:H2'	1:2A:272(C):G:C8	2.48	0.48
1:2A:320:A:H4'	1:2A:322:A:C8	2.48	0.48
1:2A:992:C:OP1	17:2V:74:LYS:NZ	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2315:G:H2'	1:2A:2316:C:H6	1.78	0.48
1:2A:2320:A:N3	1:2A:2320:A:H2'	2.29	0.48
3:2D:96:HIS:CD2	3:2D:102:LYS:HG2	2.48	0.48
4:2E:5:LEU:HD11	4:2E:79:ARG:HB2	1.96	0.48
7:2H:56:SER:OG	7:2H:57:ASP:N	2.46	0.48
32:2a:865:A:H5'	32:2a:1078:U:C5	2.49	0.48
32:2a:957:U:H2'	32:2a:959:A:OP2	2.14	0.48
32:2a:1118:C:H1'	32:2a:1179:A:C5	2.48	0.48
32:2a:1176:A:H2'	32:2a:1177:G:O4'	2.12	0.48
32:2a:1318:A:OP1	50:2s:3:ARG:NH2	2.34	0.48
38:2g:32:ARG:HH21	38:2g:109:ASN:ND2	2.11	0.48
1:1A:1699:A:C2'	1:1A:1700:G:H5'	2.44	0.48
1:1A:2008:A:OP1	61:1A:4371:HOH:O	2.20	0.48
1:1A:2145:G:H1	1:1A:2197:C:H42	1.61	0.48
1:1A:2210:C:H2'	1:1A:2211:U:O4'	2.13	0.48
1:1A:2545:A:H2'	1:1A:2546:A:O4'	2.13	0.48
61:1A:4841:HOH:O	4:1E:145:LYS:HE2	2.13	0.48
26:14:55:ARG:N	26:14:56:VAL:O	2.42	0.48
32:1a:339:C:H2'	32:1a:340:U:H6	1.78	0.48
32:1a:673:G:O3'	37:1f:87:ARG:NH2	2.47	0.48
54:1w:50:U:O4	54:1w:64:A:N1	2.47	0.48
54:1y:67:C:H2'	54:1y:68:C:H6	1.79	0.48
1:2A:272(B):G:H2'	1:2A:272(C):G:H8	1.79	0.48
2:2B:95:C:H2'	2:2B:96:U:C6	2.48	0.48
32:2a:376:G:H5''	47:2p:5:ARG:HD2	1.95	0.48
35:2d:180:GLY:O	35:2d:182:LYS:HG3	2.14	0.48
41:2j:80:LYS:O	41:2j:84:GLN:HB2	2.14	0.48
47:2p:56:ALA:O	47:2p:60:LEU:HB2	2.13	0.48
54:2y:49:C:H1'	61:2y:3106:HOH:O	2.13	0.48
1:1A:1087:C:N4	1:1A:1160:G:H1	2.04	0.48
1:1A:1136:U:N3	1:1A:1148:C:H1'	2.29	0.48
1:1A:1495:G:O2'	1:1A:1575:A:N1	2.41	0.48
13:1R:31:HIS:HD2	61:1R:315:HOH:O	1.96	0.48
19:1X:57:LEU:HD11	19:1X:78:LYS:HE2	1.95	0.48
22:10:50:ASN:HB3	22:10:63:VAL:HG22	1.96	0.48
32:1a:7:G:H5'	32:1a:298:A:O4'	2.13	0.48
32:1a:399:G:H2'	32:1a:400:C:C6	2.48	0.48
32:1a:1413:A:H2	32:1a:1487:G:H22	1.61	0.48
33:1b:230:VAL:HG22	33:1b:231:GLU:H	1.79	0.48
41:1j:65:LEU:HD13	45:1n:56:VAL:HG22	1.96	0.48
1:2A:184:C:H2'	1:2A:185:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:852:G:H2'	1:2A:853:G:C8	2.44	0.48
1:2A:1183:G:H5''	25:23:30:ARG:HH22	1.79	0.48
1:2A:2126:A:H4'	1:2A:2127:G:OP1	2.13	0.48
1:2A:2176:A:H2'	1:2A:2177:C:C6	2.49	0.48
18:2W:2:GLU:OE2	18:2W:72:LYS:NZ	2.41	0.48
32:2a:1412:C:H2'	32:2a:1413:A:C8	2.49	0.48
1:1A:964:A:H5''	2:1B:98:G:O2'	2.14	0.48
1:1A:1071:G:C4	1:1A:1180:C:H1'	2.49	0.48
1:1A:2476:C:H1'	61:1A:5535:HOH:O	2.13	0.48
5:1F:164:ARG:O	5:1F:168:ARG:HB2	2.14	0.48
24:12:32:LEU:CD2	24:12:36:ARG:HH11	2.27	0.48
35:1d:50:ARG:HA	35:1d:51:PRO:HD3	1.76	0.48
38:1g:50:ILE:HD13	38:1g:125:MET:CG	2.42	0.48
40:1i:50:LEU:HA	40:1i:53:VAL:HG22	1.95	0.48
54:1y:19:G:C4'	54:1y:57:G:H22	2.26	0.48
1:2A:581:C:H2'	1:2A:582:G:C8	2.49	0.48
1:2A:1469:A:H2'	1:2A:1470:G:O4'	2.14	0.48
1:2A:1557:C:H5''	1:2A:1558:A:OP2	2.13	0.48
3:2D:148:GLU:HB2	3:2D:151:LYS:HD2	1.94	0.48
5:2F:197:ASP:O	5:2F:200:GLU:HB3	2.14	0.48
6:2G:16:ARG:O	6:2G:20:ILE:HG13	2.13	0.48
9:2N:43:THR:HB	9:2N:46:VAL:HG22	1.96	0.48
11:2P:95:VAL:HG13	11:2P:125:VAL:HA	1.96	0.48
12:2Q:31:ASP:HA	12:2Q:134:ARG:NH1	2.29	0.48
23:21:83:GLU:HA	23:21:84:GLY:HA2	1.68	0.48
32:2a:266:G:H2'	32:2a:266:G:N3	2.29	0.48
32:2a:736:C:H2'	32:2a:737:A:C8	2.49	0.48
32:2a:1245:A:H2'	32:2a:1246:C:O4'	2.13	0.48
50:2s:49:ILE:HG22	50:2s:62:ILE:HD11	1.96	0.48
1:1A:957:A:H2'	12:1Q:9:TYR:OH	2.14	0.48
1:1A:1735:U:O2	1:1A:1747:A:H5'	2.14	0.48
6:1G:146:TYR:O	6:1G:149:VAL:HG12	2.14	0.48
25:13:26:LEU:O	25:13:35:ARG:NE	2.46	0.48
32:1a:946:A:O2'	32:1a:1333:A:N3	2.40	0.48
32:1a:1124:G:N7	32:1a:1145:C:O2'	2.46	0.48
33:1b:7:VAL:O	33:1b:217:ARG:NH1	2.47	0.48
35:1d:158:ILE:H	35:1d:158:ILE:HG13	1.38	0.48
36:1e:105:VAL:HB	36:1e:106:PRO:HD3	1.96	0.48
41:1j:5:ARG:NH1	41:1j:71:LEU:HD21	2.29	0.48
1:2A:324:A:N6	1:2A:338:G:O2'	2.46	0.48
1:2A:340:A:H2'	1:2A:341:G:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:445:C:OP1	16:2U:2:PRO:HA	2.14	0.48
1:2A:606:U:OP1	5:2F:104:LYS:HD2	2.14	0.48
1:2A:910:A:H62	12:2Q:12:GLN:HA	1.78	0.48
1:2A:995:C:O2	9:2N:3:THR:OG1	2.32	0.48
1:2A:2849:U:H4'	1:2A:2868:A:C2	2.49	0.48
8:2I:14:ASP:OD1	8:2I:15:VAL:N	2.47	0.48
32:2a:1015:A:C6	32:2a:1016:A:C6	3.02	0.48
33:2b:52:GLU:HG2	33:2b:56:ARG:HH12	1.79	0.48
40:2i:77:ILE:O	40:2i:81:ILE:HG12	2.13	0.48
1:1A:1105:G:H2'	1:1A:1106:U:C5	2.49	0.47
1:1A:1131:A:O2'	1:1A:1150:C:O2'	2.31	0.47
1:1A:2190:G:C6	1:1A:2193:A:C8	3.02	0.47
5:1F:65:TRP:CZ2	5:1F:75:HIS:HD2	2.32	0.47
6:1G:101:ILE:HG22	6:1G:105:LYS:HE2	1.96	0.47
7:1H:56:SER:OG	7:1H:57:ASP:N	2.47	0.47
16:1U:58:ARG:HA	16:1U:61:TRP:CE3	2.49	0.47
39:1h:64:LYS:HG2	39:1h:79:VAL:HG21	1.95	0.47
1:2A:848:G:C2	1:2A:933:A:H1'	2.49	0.47
1:2A:2303:G:O2'	6:2G:132:ASN:HB2	2.14	0.47
12:2Q:31:ASP:HA	12:2Q:134:ARG:HH11	1.78	0.47
16:2U:76:TYR:OH	16:2U:92:ARG:NE	2.36	0.47
27:25:16:ARG:NH1	27:25:17:ASP:OD1	2.46	0.47
29:27:1:MET:HE3	29:27:3:ARG:CZ	2.43	0.47
32:2a:1134:G:H1	32:2a:1140:C:H42	1.60	0.47
54:2y:15:G:H22	54:2y:48:C:N4	2.11	0.47
1:1A:211:A:H5''	1:1A:448:U:OP1	2.14	0.47
1:1A:756:U:H2'	1:1A:757:G:C8	2.49	0.47
1:1A:1338:U:H2'	1:1A:1339:C:C6	2.49	0.47
1:1A:2177:G:H3'	1:1A:2178:G:C8	2.49	0.47
3:1D:145:VAL:HG13	3:1D:191:ALA:HB2	1.96	0.47
5:1F:158:THR:O	5:1F:164:ARG:NH1	2.42	0.47
5:1F:197:ASP:O	5:1F:201:VAL:HG13	2.14	0.47
7:1H:7:LEU:HD12	7:1H:8:PRO:HD2	1.96	0.47
32:1a:1129:C:O2'	32:1a:1139:G:N7	2.29	0.47
35:1d:101:LEU:HB2	35:1d:138:TYR:HB3	1.96	0.47
55:1x:10:G:N2	55:1x:26:G:H1'	2.29	0.47
1:2A:1028:A:H2'	1:2A:1029:A:C8	2.49	0.47
1:2A:2295:C:OP1	14:2S:10:ARG:NH1	2.47	0.47
1:2A:2315:G:H2'	1:2A:2316:C:C6	2.49	0.47
1:2A:2680:C:H1'	4:2E:187:ALA:HB1	1.96	0.47
12:2Q:24:GLY:HA2	12:2Q:67:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:156:LYS:HE3	21:2Z:158:PRO:HD3	1.96	0.47
1:1A:886:U:H2'	1:1A:887:C:C6	2.49	0.47
1:1A:1475:G:H2'	1:1A:1476:C:C6	2.49	0.47
32:1a:756:C:H2'	32:1a:757:U:O4'	2.13	0.47
32:1a:955:U:O2'	50:1s:83:HIS:HD2	1.96	0.47
32:1a:1531:A:N6	61:1a:2074:HOH:O	2.37	0.47
1:2A:1805:U:O2	3:2D:50:THR:HB	2.14	0.47
7:2H:75:ALA:O	7:2H:79:VAL:HG22	2.14	0.47
32:2a:542:G:P	35:2d:10:ARG:HH22	2.37	0.47
32:2a:1502:A:C8	32:2a:1505:G:N2	2.82	0.47
38:2g:26:PHE:O	38:2g:30:ILE:HD12	2.13	0.47
1:1A:265:U:H2'	1:1A:266:C:C6	2.48	0.47
1:1A:1108:G:C8	1:1A:1134:A:H2'	2.49	0.47
4:1E:97:LYS:HB3	4:1E:97:LYS:HE2	1.58	0.47
21:1Z:1:MET:HE1	21:1Z:133:ILE:HG22	1.96	0.47
32:1a:574:A:OP2	61:1a:2029:HOH:O	2.20	0.47
32:1a:1026:G:C8	32:1a:1027:C:O2	2.67	0.47
33:1b:87:ARG:HE	33:1b:233:SER:HB3	1.79	0.47
40:1i:26:VAL:HG13	40:1i:61:ALA:HB3	1.96	0.47
44:1m:60:VAL:HG12	44:1m:66:LEU:HD11	1.97	0.47
1:2A:1796:U:H2'	1:2A:1797:C:H6	1.78	0.47
1:2A:2338:G:H2'	1:2A:2339:G:C8	2.49	0.47
1:2A:2787:C:H1'	4:2E:62:PRO:HG3	1.97	0.47
32:2a:21:G:H2'	32:2a:22:G:C8	2.49	0.47
32:2a:580:U:H2'	32:2a:581:G:O4'	2.14	0.47
32:2a:910:C:P	43:2l:97:ARG:HH22	2.37	0.47
32:2a:942:G:N2	40:2i:124:GLN:HE21	2.08	0.47
40:2i:17:VAL:HA	40:2i:63:ILE:HG12	1.96	0.47
47:2p:47:ASP:OD1	47:2p:47:ASP:N	2.48	0.47
1:1A:909:G:H2'	1:1A:910:A:O4'	2.15	0.47
1:1A:2225:U:O4'	3:1D:151:LYS:HE2	2.14	0.47
5:1F:101:LEU:O	5:1F:106:ARG:NH1	2.47	0.47
6:1G:131:TYR:HB3	6:1G:159:VAL:HG13	1.97	0.47
32:1a:100:C:H2'	32:1a:101:A:C8	2.50	0.47
32:1a:1162:C:N4	32:1a:1174:G:H1	2.10	0.47
28:26:7:ILE:HD13	28:26:27:LYS:HD3	1.97	0.47
32:2a:353:A:H5'	32:2a:353:A:H8	1.79	0.47
32:2a:581:G:N1	32:2a:759:A:OP2	2.38	0.47
54:2w:18:G:O2'	54:2w:57:G:N2	2.41	0.47
1:1A:1410:G:C8	23:11:3:LYS:HD2	2.49	0.47
3:1D:206:LEU:O	3:1D:211:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1W:37:ARG:O	61:1W:3102:HOH:O	2.20	0.47
33:1b:122:PHE:C	33:1b:124:SER:H	2.22	0.47
1:2A:143(A):C:O2'	19:2X:2:LYS:NZ	2.48	0.47
1:2A:572:A:OP2	17:2V:78:LYS:NZ	2.48	0.47
1:2A:888:C:O5'	44:2m:93:ARG:NH1	2.47	0.47
1:2A:2758:A:C4	7:2H:67:LEU:HD21	2.49	0.47
2:2B:17:C:N4	2:2B:109:C:N3	2.62	0.47
2:2B:55:U:H2'	2:2B:56:G:O4'	2.14	0.47
6:2G:60:LEU:HD21	6:2G:92:VAL:HG11	1.96	0.47
19:2X:4:ALA:HB1	19:2X:42:ALA:HA	1.97	0.47
32:2a:56:U:H2'	32:2a:57:G:C8	2.49	0.47
32:2a:107:G:H2'	32:2a:108:G:O4'	2.14	0.47
32:2a:253:U:H2'	32:2a:254:G:H8	1.79	0.47
32:2a:947:G:O3'	44:2m:109:THR:OG1	2.33	0.47
34:2c:6:HIS:ND1	45:2n:49:HIS:HB3	2.29	0.47
44:2m:60:VAL:HG12	44:2m:66:LEU:HD11	1.96	0.47
1:1A:225:C:H2'	1:1A:226:C:C6	2.49	0.47
1:1A:704:U:H2'	1:1A:705:C:C6	2.50	0.47
1:1A:987:G:OP2	11:1P:39:LYS:HE2	2.14	0.47
1:1A:1132:A:H5''	1:1A:1132:A:N3	2.29	0.47
1:1A:1613:A:OP1	3:1D:211:ARG:NH1	2.48	0.47
1:1A:1634:C:H2'	1:1A:1635:C:C6	2.49	0.47
1:1A:2134:G:H1'	54:1y:19:G:O2'	2.15	0.47
1:1A:2157:A:H5'	1:1A:2182:G:C4'	2.38	0.47
1:1A:2874:G:OP1	15:1T:119:LYS:HD2	2.15	0.47
2:1B:74:U:H2'	2:1B:75:G:O4'	2.14	0.47
5:1F:53:THR:HG22	5:1F:56:GLU:HG3	1.95	0.47
9:1N:67:LEU:HA	9:1N:87:LEU:HD22	1.96	0.47
32:1a:456:C:H42	32:1a:475:G:H1	1.61	0.47
32:1a:715:A:H2'	32:1a:716:A:C8	2.49	0.47
34:1c:191:THR:OG1	34:1c:194:GLY:O	2.31	0.47
35:1d:11:LEU:HD23	35:1d:66:ARG:HB3	1.97	0.47
35:1d:205:GLU:OE2	36:1e:107:ARG:NH1	2.48	0.47
44:1m:23:TYR:CE2	44:1m:71:ARG:HG3	2.50	0.47
1:2A:8:A:H2'	1:2A:9:U:C6	2.50	0.47
1:2A:831:G:O2'	11:2P:38:GLN:OE1	2.30	0.47
1:2A:1268:A:H2'	1:2A:1269:A:O4'	2.15	0.47
1:2A:1416:G:O2'	1:2A:1417:C:OP2	2.30	0.47
1:2A:2345:G:N3	1:2A:2381:C:H2'	2.30	0.47
1:2A:2405:G:H5'	11:2P:75:ILE:HD13	1.97	0.47
1:2A:2467:C:H4'	12:2Q:123:HIS:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2870:C:H2'	1:2A:2871:C:O4'	2.15	0.47
7:2H:88:LEU:HD12	7:2H:90:LYS:HE3	1.95	0.47
12:2Q:29:PHE:HB3	12:2Q:65:PHE:CE2	2.50	0.47
21:2Z:92:SER:O	21:2Z:130:PRO:HG3	2.15	0.47
32:2a:56:U:H2'	32:2a:57:G:H8	1.80	0.47
32:2a:1222:G:OP1	50:2s:77:THR:HG21	2.14	0.47
32:2a:1395:C:H5'	32:2a:1402:4OC:O2'	2.13	0.47
33:2b:81:VAL:HB	33:2b:94:ASN:HD21	1.80	0.47
41:2j:11:PHE:HE1	41:2j:67:THR:HG22	1.79	0.47
46:2o:29:VAL:HG13	46:2o:63:ARG:HG3	1.97	0.47
54:2y:52:G:O6	54:2y:62:C:N3	2.47	0.47
1:1A:1108:G:H1	1:1A:1123:A:N6	2.00	0.47
1:1A:1314:A:H2'	1:1A:1315:A:O4'	2.15	0.47
1:1A:2044:U:O2'	1:1A:2629:C:H5'	2.15	0.47
1:1A:2156:A:O2'	1:1A:2157:A:OP1	2.31	0.47
14:1S:26:LEU:HB2	14:1S:85:VAL:HG11	1.97	0.47
32:1a:44:G:N7	61:1a:2069:HOH:O	2.36	0.47
32:1a:189:G:H1	32:1a:189(K):U:H3	1.63	0.47
32:1a:841:U:C4	32:1a:848:C:H1'	2.50	0.47
32:1a:1412:C:H2'	32:1a:1413:A:C8	2.50	0.47
48:1q:61:GLU:HA	48:1q:71:PHE:CD1	2.49	0.47
1:2A:471:A:H2'	1:2A:472:A:O4'	2.15	0.47
1:2A:1028:A:N6	1:2A:1125:G:H2'	2.30	0.47
2:2B:54:G:H21	6:2G:29:TRP:NE1	2.11	0.47
7:2H:99:VAL:N	7:2H:102:ALA:O	2.47	0.47
32:2a:1029:C:C2	32:2a:1032:G:N2	2.79	0.47
40:2i:99:LEU:HB3	40:2i:101:PHE:HE2	1.78	0.47
50:2s:51:VAL:O	50:2s:58:VAL:N	2.40	0.47
1:1A:2152:U:H2'	1:1A:2180:A:N1	2.30	0.47
1:1A:2324:U:H5'	6:1G:88:ILE:HD11	1.96	0.47
1:1A:2724:U:O2'	1:1A:2726:A:H5'	2.15	0.47
54:1y:72:C:H2'	54:1y:73:A:O4'	2.15	0.47
1:2A:521:G:H2'	1:2A:522:G:H8	1.79	0.47
1:2A:588:U:H2'	1:2A:589:C:C6	2.50	0.47
1:2A:2375:G:O2'	1:2A:2377:A:N7	2.35	0.47
3:2D:275:LYS:HA	3:2D:276:LYS:C	2.40	0.47
6:2G:106:LEU:O	6:2G:110:ALA:HB3	2.14	0.47
12:2Q:10:ARG:NH2	55:2x:64:G:H4'	2.29	0.47
32:2a:1252:A:H2'	32:2a:1253:G:O4'	2.15	0.47
32:2a:1435:G:H2'	32:2a:1436:U:C6	2.50	0.47
33:2b:47:THR:HA	33:2b:202:PRO:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:73:THR:HA	33:2b:94:ASN:O	2.15	0.47
40:2i:4:TYR:CE1	40:2i:88:TYR:HA	2.49	0.47
41:2j:8:LEU:HD11	41:2j:70:ARG:HB2	1.96	0.47
55:2x:15:G:N2	55:2x:21:A:N3	2.63	0.47
1:1A:34:C:H5''	1:1A:35:G:OP2	2.15	0.47
1:1A:142:G:H2'	1:1A:143:C:C6	2.50	0.47
1:1A:1097:G:H2'	1:1A:1098:C:O4'	2.15	0.47
1:1A:2702:C:N4	1:1A:2726:A:H1'	2.30	0.47
5:1F:172:TRP:CD1	5:1F:172:TRP:H	2.33	0.47
6:1G:41:GLN:HG2	6:1G:154:GLY:O	2.15	0.47
8:1I:6:LEU:HD11	8:1I:37:VAL:HG23	1.97	0.47
20:1Y:13:VAL:HG12	20:1Y:74:PRO:HA	1.97	0.47
20:1Y:35:TYR:CE2	20:1Y:69:ALA:HB3	2.50	0.47
32:1a:1179:A:H2'	32:1a:1180:A:O4'	2.15	0.47
32:1a:1305:G:H22	32:1a:1331:G:H1'	1.79	0.47
32:1a:1429:C:H2'	32:1a:1430:C:C6	2.50	0.47
32:1a:1457:G:H5''	51:1t:35:THR:HG21	1.96	0.47
1:2A:2117:A:O2'	1:2A:2118:U:H5''	2.15	0.47
1:2A:2130:U:H4'	1:2A:2133:G:H4'	1.97	0.47
1:2A:2529:G:O6	31:29:31:LYS:NZ	2.48	0.47
1:2A:2758:A:H2'	1:2A:2759:G:O4'	2.15	0.47
8:2I:8:PRO:HD3	8:2I:15:VAL:HB	1.96	0.47
8:2I:87:LYS:NZ	8:2I:122:GLU:OE2	2.34	0.47
14:2S:30:ARG:HG2	14:2S:30:ARG:HH11	1.80	0.47
22:20:45:PHE:HE1	22:20:77:ARG:NE	2.12	0.47
32:2a:1347:G:H22	32:2a:1374:A:P	2.38	0.47
35:2d:22:LYS:HG2	60:2d:501:SF4:S4	2.54	0.47
1:1A:302:A:O2'	1:1A:303:C:OP1	2.22	0.46
1:1A:931:C:C4	1:1A:932:C:H1'	2.50	0.46
1:1A:1085:G:H1	1:1A:1162:C:H42	1.62	0.46
1:1A:1324:A:OP1	13:1R:36:THR:HG22	2.15	0.46
1:1A:1938:A:H2'	1:1A:1939:PSU:O4'	2.15	0.46
9:1N:26:LEU:HD23	9:1N:99:LEU:HD11	1.96	0.46
20:1Y:9:LYS:NZ	20:1Y:28:LYS:O	2.39	0.46
32:1a:1292:U:H2'	32:1a:1293:G:C8	2.50	0.46
38:1g:46:ALA:O	38:1g:50:ILE:HG22	2.15	0.46
41:1j:30:SER:OG	41:1j:81:THR:OG1	2.19	0.46
46:1o:11:VAL:HG21	46:1o:34:LEU:HD22	1.96	0.46
51:1t:82:SER:O	51:1t:86:ARG:HG3	2.15	0.46
1:2A:7:G:H2'	1:2A:8:A:H8	1.79	0.46
1:2A:665:C:H2'	1:2A:666:G:C8	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:974:G:C6	1:2A:1186:G:C6	3.04	0.46
1:2A:1224:C:O2	17:2V:85:LYS:NZ	2.30	0.46
1:2A:2131:G:N7	1:2A:2133:G:N2	2.63	0.46
11:2P:63:PRO:HG2	30:28:25:MET:HB2	1.98	0.46
32:2a:253:U:H2'	32:2a:254:G:C8	2.50	0.46
32:2a:437:U:O2'	35:2d:125:HIS:HE1	1.97	0.46
32:2a:448:A:OP2	32:2a:485:G:N2	2.41	0.46
41:2j:5:ARG:N	61:2j:8103:HOH:O	2.48	0.46
43:2l:8:ASN:HB2	48:2q:34:LYS:HZ3	1.80	0.46
1:1A:2707:C:H2'	1:1A:2708:U:H6	1.81	0.46
14:1S:11:LYS:HG3	14:1S:91:PRO:HD3	1.97	0.46
30:18:42:ARG:HD2	61:18:5001:HOH:O	2.15	0.46
32:1a:204:U:H4'	32:1a:216:G:O5'	2.15	0.46
42:1k:82:VAL:HB	42:1k:108:ILE:HG12	1.98	0.46
1:2A:90:U:H1'	1:2A:92:A:C8	2.50	0.46
1:2A:107:C:H2'	1:2A:108:U:C6	2.50	0.46
1:2A:463:G:N2	1:2A:466:A:OP2	2.38	0.46
1:2A:1920:4OC:HM22	1:2A:1921:G:H5'	1.97	0.46
1:2A:2777:G:H8	61:2A:4416:HOH:O	1.98	0.46
1:2A:2815:C:H2'	1:2A:2816:C:H6	1.79	0.46
3:2D:3:VAL:HG13	3:2D:17:THR:HB	1.97	0.46
3:2D:108:PRO:HB3	3:2D:143:HIS:CE1	2.50	0.46
8:2I:1:MET:HA	57:2I:201:CPT:CL1	2.53	0.46
9:2N:34:LEU:HD21	9:2N:120:LEU:HB2	1.97	0.46
12:2Q:38:GLU:HG3	12:2Q:127:ILE:HG22	1.96	0.46
17:2V:5:VAL:HG21	17:2V:35:LEU:HD23	1.97	0.46
25:23:6:VAL:HG13	25:23:56:VAL:HG22	1.97	0.46
32:2a:509:A:O2'	32:2a:510:A:OP1	2.26	0.46
54:2w:28:G:H2'	54:2w:29:G:O4'	2.14	0.46
1:1A:1404:G:OP2	61:1A:4373:HOH:O	2.21	0.46
1:1A:2377:G:H4'	22:10:60:PHE:CZ	2.51	0.46
1:1A:2635:G:HO2'	1:1A:2835:C:HO2'	1.63	0.46
1:1A:2760:G:O6	1:1A:2768:C:H5''	2.14	0.46
2:1B:1:U:O2'	2:1B:2:C:OP1	2.29	0.46
7:1H:41:MET:HE2	7:1H:65:HIS:HA	1.97	0.46
15:1T:49:VAL:HG12	15:1T:63:VAL:HG22	1.96	0.46
32:1a:1003:G:H2'	32:1a:1004:A:N3	2.30	0.46
33:1b:45:GLN:O	33:1b:49:GLU:HG3	2.15	0.46
1:2A:752:A:H3'	29:27:1:MET:CE	2.43	0.46
1:2A:1761:C:H2'	1:2A:1762:A:H5''	1.97	0.46
1:2A:2074:U:H2'	1:2A:2075:U:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2537:U:H2'	1:2A:2538:C:C6	2.51	0.46
1:2A:2683:C:O2	10:2O:70:LYS:NZ	2.44	0.46
3:2D:43:ARG:NH2	3:2D:49:ILE:HD11	2.29	0.46
7:2H:74:ASN:O	7:2H:78:GLY:N	2.48	0.46
32:2a:553:A:H5''	43:2l:24:VAL:HG21	1.96	0.46
32:2a:664:G:N2	32:2a:741:G:H1	2.09	0.46
32:2a:1133:G:H2'	32:2a:1134:G:H8	1.81	0.46
33:2b:55:PHE:HE1	33:2b:218:ALA:HA	1.80	0.46
34:2c:117:ALA:HB2	34:2c:200:ALA:HB2	1.98	0.46
35:2d:105:VAL:HG13	35:2d:110:PHE:HB2	1.97	0.46
54:2w:8:4SU:S4	54:2w:14:A:N7	2.88	0.46
55:2x:40:C:H2'	55:2x:41:C:H6	1.80	0.46
54:2y:54:5MU:O4	54:2y:58:A:N7	2.48	0.46
1:1A:2005:C:H4'	1:1A:2618:C:H4'	1.97	0.46
1:1A:2549:U:H2'	1:1A:2550:C:C6	2.51	0.46
32:1a:458:C:H2'	32:1a:460:G:O4'	2.15	0.46
32:1a:1053:G:N7	32:1a:1199:U:H3'	2.30	0.46
32:1a:1286:A:H2'	32:1a:1287:A:H4'	1.97	0.46
44:1m:29:ARG:HD3	44:1m:64:TRP:CE2	2.50	0.46
44:1m:95:GLY:O	44:1m:110:ARG:HG3	2.15	0.46
1:2A:107:C:H2'	1:2A:108:U:H6	1.80	0.46
1:2A:1688:U:O2	1:2A:1700:A:H5'	2.15	0.46
1:2A:1786:A:C4	1:2A:1938:A:C6	3.03	0.46
1:2A:2051:A:H5'	1:2A:2578:G:O4'	2.15	0.46
1:2A:2095:C:H2'	1:2A:2096:U:O4'	2.15	0.46
1:2A:2335:A:C8	1:2A:2337:G:C5	3.04	0.46
1:2A:2690:C:OP1	13:2R:17:ARG:NH2	2.48	0.46
6:2G:136:ARG:HA	6:2G:154:GLY:HA3	1.97	0.46
12:2Q:21:THR:HG21	12:2Q:101:ARG:HD2	1.97	0.46
18:2W:34:ASN:OD1	18:2W:37:ARG:NH2	2.48	0.46
26:24:28:LYS:HA	26:24:29:PRO:HD3	1.76	0.46
32:2a:646:U:H2'	32:2a:647:C:C6	2.50	0.46
47:2p:8:ARG:HB3	47:2p:28:ARG:HH12	1.80	0.46
1:1A:441:C:H2'	1:1A:442:A:C8	2.51	0.46
1:1A:2164:C:N3	1:1A:2171:G:O6	2.48	0.46
1:1A:2418:U:H2'	1:1A:2418:U:OP2	2.15	0.46
1:1A:2802:C:O2	1:1A:2903:G:N2	2.44	0.46
6:1G:150:ASP:OD1	6:1G:150:ASP:N	2.46	0.46
20:1Y:43:ASN:HB3	20:1Y:65:ALA:HB3	1.97	0.46
32:1a:1236:A:H4'	32:1a:1304:G:H4'	1.98	0.46
33:1b:98:LEU:HB2	33:1b:101:MET:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:1c:70:VAL:HG12	34:1c:72:LYS:H	1.81	0.46
44:1m:96:LEU:C	44:1m:110:ARG:HG2	2.41	0.46
1:2A:949:C:H2'	1:2A:950:G:C8	2.51	0.46
1:2A:2292:C:H2'	1:2A:2293:C:H6	1.80	0.46
1:2A:2366:A:H2'	1:2A:2367:G:O4'	2.15	0.46
1:2A:2646:C:H2'	1:2A:2647:U:O4'	2.16	0.46
2:2B:84:C:OP1	25:23:15:TYR:OH	2.28	0.46
6:2G:11:TYR:O	6:2G:16:ARG:HG2	2.15	0.46
9:2N:38:HIS:ND1	9:2N:39:ARG:HG3	2.31	0.46
32:2a:352:C:O2'	32:2a:354:G:OP1	2.28	0.46
32:2a:925:G:H1'	32:2a:1502:A:C4	2.50	0.46
32:2a:1272:G:N2	32:2a:1273:G:C4	2.84	0.46
36:2e:24:ARG:HD2	53:2v:24:A:OP2	2.15	0.46
44:2m:14:ARG:NE	44:2m:42:ALA:HA	2.31	0.46
55:2x:10:G:N2	55:2x:26:G:H1'	2.31	0.46
54:2y:7:A:C6	54:2y:49:C:N3	2.84	0.46
1:1A:929:G:H1	1:1A:940:C:N4	2.13	0.46
1:1A:1487:G:H2'	1:1A:1488:G:C8	2.50	0.46
1:1A:2053:A:C6	1:1A:2510:C:H1'	2.50	0.46
1:1A:2658:C:H2'	1:1A:2659:U:O4'	2.16	0.46
1:1A:2825:C:H5'	27:15:29:THR:HG21	1.96	0.46
4:1E:24:THR:HG23	4:1E:184:VAL:HG13	1.97	0.46
5:1F:184:TYR:CE2	5:1F:188:ARG:HD2	2.50	0.46
8:1I:130:TYR:HB3	8:1I:138:ILE:HB	1.98	0.46
11:1P:126:VAL:HG12	11:1P:148:LEU:CD2	2.46	0.46
32:1a:222:U:H2'	32:1a:223:U:C6	2.51	0.46
32:1a:339:C:H2'	32:1a:340:U:C6	2.51	0.46
32:1a:911:U:H2'	32:1a:912:C:C6	2.51	0.46
54:1y:67:C:H2'	54:1y:68:C:C6	2.50	0.46
1:2A:613:G:N2	1:2A:614(C):A:O2'	2.49	0.46
1:2A:830:G:H4'	1:2A:831:G:OP2	2.16	0.46
1:2A:1430:C:H2'	1:2A:1431:U:C6	2.50	0.46
1:2A:2094:G:P	8:2I:22:LYS:HD2	2.56	0.46
1:2A:2294:C:P	14:2S:89:ARG:HH22	2.38	0.46
1:2A:2445:G:OP1	5:2F:74:ARG:NH2	2.38	0.46
1:2A:2507:C:H5''	1:2A:2573:C:N4	2.31	0.46
1:2A:2567:G:H2'	1:2A:2568:C:C6	2.51	0.46
2:2B:105:A:H5'	2:2B:106:G:OP2	2.15	0.46
17:2V:81:TYR:C	17:2V:82:ARG:HG2	2.41	0.46
23:21:23:LYS:HB3	23:21:29:GLY:HA3	1.98	0.46
32:2a:458:C:H2'	32:2a:460:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:596:C:H2'	32:2a:597:G:C8	2.49	0.46
32:2a:947:G:H2'	32:2a:948:C:C6	2.50	0.46
32:2a:974:A:P	45:2n:41:ARG:HH12	2.38	0.46
32:2a:1109:C:H2'	32:2a:1110:A:O4'	2.16	0.46
32:2a:1130:A:H5'	40:2i:18:PHE:CE2	2.50	0.46
38:2g:49:ILE:HD13	38:2g:52:GLU:OE2	2.16	0.46
39:2h:20:TYR:HA	39:2h:65:TYR:CZ	2.51	0.46
43:2l:24:VAL:HB	43:2l:27:LEU:HD22	1.96	0.46
43:2l:70:ILE:HD13	43:2l:77:LEU:HD12	1.97	0.46
50:2s:12:ASP:OD2	50:2s:37:ARG:HD2	2.16	0.46
55:2x:47:U:H3'	55:2x:48:C:C5'	2.45	0.46
1:1A:1068:G:N7	9:1N:66:LYS:HE2	2.31	0.46
1:1A:2376:C:H2'	1:1A:2377:G:O4'	2.16	0.46
6:1G:29:TRP:O	6:1G:33:ARG:NH1	2.48	0.46
8:1I:61:ARG:HA	8:1I:61:ARG:HD3	1.67	0.46
19:1X:44:GLU:HG2	19:1X:49:VAL:O	2.16	0.46
26:14:33:VAL:HG12	26:14:35:VAL:H	1.81	0.46
32:1a:403:C:OP2	35:1d:74:GLN:NE2	2.49	0.46
32:1a:750:G:O2'	46:1o:21:ASP:OD1	2.34	0.46
32:1a:848:C:H2'	32:1a:849:C:H6	1.79	0.46
32:1a:1016:A:H2'	32:1a:1017:G:O4'	2.16	0.46
32:1a:1095:U:P	32:1a:1108:G:H1	2.39	0.46
32:1a:1277:C:O2'	32:1a:1279:A:H1'	2.16	0.46
33:1b:59:GLU:HB2	33:1b:221:LEU:HD21	1.98	0.46
38:1g:37:ASN:O	38:1g:41:ARG:HG3	2.15	0.46
38:1g:69:VAL:HG21	38:1g:104:LEU:HD11	1.98	0.46
1:2A:17:G:H2'	1:2A:18:C:C6	2.51	0.46
1:2A:631:A:N3	1:2A:2415:G:O2'	2.48	0.46
1:2A:1221(A):C:C2	1:2A:1229:G:C2	3.03	0.46
1:2A:1922:G:H2'	1:2A:1923:U:O4'	2.16	0.46
1:2A:2127:G:H2'	1:2A:2128:C:C6	2.51	0.46
1:2A:2472:G:H2'	1:2A:2475:C:H42	1.80	0.46
13:2R:44:LEU:HD23	13:2R:44:LEU:HA	1.78	0.46
17:2V:24:LYS:HG3	17:2V:64:HIS:HD2	1.81	0.46
24:22:32:LEU:O	24:22:36:ARG:HG3	2.16	0.46
32:2a:520:A:N1	32:2a:536:C:H1'	2.30	0.46
32:2a:936:C:H2'	32:2a:937:A:O4'	2.16	0.46
33:2b:223:ILE:HA	33:2b:226:ARG:HG2	1.96	0.46
38:2g:150:ALA:HB2	42:2k:50:TYR:OH	2.16	0.46
54:2y:8:4SU:S4	54:2y:14:A:N7	2.88	0.46
1:1A:354:A:HO2'	1:1A:355:A:H8	1.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2045:G:H5'	1:1A:2629:C:H4'	1.98	0.46
1:1A:2308:U:OP2	14:1S:9:ARG:NH2	2.43	0.46
1:1A:2348:A:H61	22:10:43:THR:CG2	2.29	0.46
61:1A:4316:HOH:O	13:1R:3:HIS:NE2	2.35	0.46
29:17:24:THR:HG22	29:17:26:GLY:H	1.81	0.46
32:1a:542:G:OP1	35:1d:10:ARG:NH2	2.47	0.46
32:1a:1443:G:H2'	32:1a:1444:C:C6	2.51	0.46
33:1b:192:SER:O	33:1b:194:PRO:HD3	2.15	0.46
54:1y:44:G:H8	54:1y:44:G:OP2	1.99	0.46
1:2A:128:C:H2'	1:2A:129:C:H6	1.81	0.46
1:2A:383:U:H2'	1:2A:385:C:H5	1.80	0.46
1:2A:622:G:H2'	1:2A:623:G:H8	1.81	0.46
1:2A:857:C:OP2	22:20:77:ARG:NH2	2.48	0.46
1:2A:2067:G:O2'	1:2A:2069:G:H5'	2.16	0.46
1:2A:2136:C:C4	1:2A:2155:G:N1	2.74	0.46
49:2r:53:ARG:HA	49:2r:56:THR:OG1	2.16	0.46
1:1A:2880:C:H2'	1:1A:2881:C:O4'	2.16	0.46
11:1P:82:GLY:HA2	11:1P:113:LYS:O	2.15	0.46
17:1V:74:LYS:HB2	17:1V:83:ARG:HB2	1.97	0.46
23:11:83:GLU:OE1	23:11:83:GLU:N	2.48	0.46
32:1a:673:G:H2'	32:1a:674:G:C8	2.51	0.46
32:1a:1292:U:H2'	32:1a:1293:G:H8	1.80	0.46
35:1d:173:TRP:CD2	35:1d:189:PRO:HG3	2.51	0.46
36:1e:78:HIS:CE1	36:1e:143:ARG:H	2.34	0.46
1:2A:864:G:H1'	1:2A:914:C:N4	2.30	0.46
1:2A:1837:C:O2'	1:2A:1927:A:N3	2.39	0.46
1:2A:2136:C:HO2'	1:2A:2137:C:H6	1.60	0.46
8:2I:124:GLY:H	8:2I:144:VAL:HG23	1.80	0.46
14:2S:14:VAL:HG21	14:2S:90:GLY:O	2.16	0.46
29:27:34:ARG:HE	29:27:39:ARG:HG2	1.81	0.46
32:2a:975:A:H62	41:2j:60:ARG:HH12	1.64	0.46
32:2a:1264:C:N3	32:2a:1271:G:N2	2.61	0.46
32:2a:1376:U:H2'	32:2a:1377:A:H8	1.79	0.46
32:2a:1485:U:H2'	32:2a:1486:G:C8	2.51	0.46
37:2f:67:MET:HE1	37:2f:75:LEU:HD23	1.98	0.46
1:1A:1059:C:OP2	61:1A:4356:HOH:O	2.21	0.46
27:15:48:GLU:O	27:15:60:VAL:HG11	2.16	0.46
32:1a:67:C:H2'	32:1a:68:G:H8	1.79	0.46
32:1a:637:G:H2'	32:1a:638:G:C8	2.51	0.46
40:1i:50:LEU:HD23	40:1i:81:ILE:HD11	1.97	0.46
44:1m:34:LEU:HD13	44:1m:41:PRO:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:1n:29:ARG:HD3	45:1n:40:CYS:SG	2.55	0.46
1:2A:616:G:H5'	5:2F:205:ARG:HD3	1.97	0.46
1:2A:1453:U:O2'	1:2A:1455:G:N7	2.45	0.46
1:2A:2611:U:C4	27:25:3:LYS:HG2	2.51	0.46
1:2A:2689:U:P	1:2A:2719:G:H22	2.37	0.46
1:2A:2748:A:H2'	1:2A:2749:A:C8	2.51	0.46
19:2X:53:LYS:HB3	19:2X:82:GLN:HB3	1.97	0.46
32:2a:444:C:N4	32:2a:491:G:O6	2.49	0.46
32:2a:1121:U:H2'	32:2a:1122:U:C6	2.51	0.46
32:2a:1271:G:C6	32:2a:1272:G:O6	2.68	0.46
38:2g:42:ILE:HG22	38:2g:120:ILE:HD12	1.98	0.46
54:2y:51:U:H2'	54:2y:52:G:O4'	2.15	0.46
1:1A:185:A:H2'	1:1A:185:A:N3	2.31	0.45
1:1A:1108:G:N2	1:1A:1134:A:C6	2.84	0.45
1:1A:1402:G:O6	61:1A:4372:HOH:O	2.20	0.45
1:1A:1410:G:OP2	23:11:3:LYS:HG3	2.17	0.45
1:1A:2388:A:H2'	1:1A:2389:A:O4'	2.16	0.45
2:1B:24:G:N7	2:1B:56:G:H2'	2.31	0.45
5:1F:89:VAL:HG12	5:1F:90:PHE:CD2	2.51	0.45
6:1G:108:ASN:HB3	26:14:22:ILE:HD13	1.98	0.45
8:1I:129:THR:HG22	8:1I:139:GLN:NE2	2.29	0.45
14:1S:19:LYS:HE2	14:1S:25:ARG:NH1	2.31	0.45
21:1Z:146:ILE:HA	21:1Z:147:GLY:HA2	1.67	0.45
26:14:55:ARG:H	26:14:56:VAL:C	2.24	0.45
32:1a:536:C:OP2	61:1a:2030:HOH:O	2.21	0.45
32:1a:619:U:C2	35:1d:135:LEU:HD22	2.51	0.45
32:1a:973:G:H3'	32:1a:974:A:H5''	1.98	0.45
32:1a:1029:C:N4	32:1a:1030:C:H41	2.14	0.45
32:1a:1402:4OC:HM43	32:1a:1500:A:H61	1.82	0.45
34:1c:131:ARG:HH11	34:1c:166:GLU:HG3	1.80	0.45
48:1q:26:GLN:HE21	48:1q:37:LYS:HE3	1.81	0.45
1:2A:7:G:H2'	1:2A:8:A:C8	2.51	0.45
1:2A:568:U:H5'	1:2A:945:A:C6	2.51	0.45
1:2A:1268:A:C2	1:2A:2013:A:C4	3.04	0.45
1:2A:2466:C:OP1	31:29:4:ARG:HB2	2.16	0.45
32:2a:449:C:O2	47:2p:42:ARG:HD2	2.17	0.45
32:2a:614:A:H2'	32:2a:615:C:C6	2.51	0.45
32:2a:1004:A:H61	32:2a:1037:C:H1'	1.80	0.45
32:2a:1057:G:OP1	34:2c:154:SER:OG	2.30	0.45
32:2a:1151:A:O2'	32:2a:1152:A:H8	1.98	0.45
32:2a:1190:G:H5'	34:2c:176:HIS:CE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1236:A:O2'	32:2a:1304:G:H4'	2.15	0.45
37:2f:69:GLU:O	37:2f:72:VAL:HG12	2.16	0.45
37:2f:76:ALA:O	37:2f:80:ARG:HG3	2.15	0.45
39:2h:21:LYS:O	39:2h:65:TYR:OH	2.29	0.45
54:2y:15:G:N1	54:2y:48:C:N3	2.63	0.45
1:1A:611:U:O4	1:1A:717:A:H1'	2.16	0.45
1:1A:659:C:H2'	1:1A:660:C:C6	2.51	0.45
1:1A:1001:G:H5''	12:1Q:77:LYS:HD2	1.98	0.45
1:1A:1653:C:H4'	1:1A:1654:A:O5'	2.16	0.45
1:1A:2147:G:H1'	1:1A:2195:A:H61	1.80	0.45
4:1E:14:ILE:HG13	4:1E:21:VAL:HG13	1.97	0.45
10:1O:104:ARG:CZ	15:1T:34:VAL:HG11	2.47	0.45
10:1O:120:GLU:HB2	15:1T:68:TYR:HE2	1.81	0.45
32:1a:1302:U:C5	44:1m:17:VAL:HG21	2.50	0.45
50:1s:22:LEU:HB3	50:1s:27:GLU:HB3	1.97	0.45
51:1t:87:LYS:O	51:1t:91:LEU:HG	2.16	0.45
1:2A:1512:U:H2'	1:2A:1513:C:C6	2.51	0.45
1:2A:2137:C:N3	1:2A:2155:G:C6	2.85	0.45
1:2A:2166:G:H5'	1:2A:2167:U:OP2	2.17	0.45
8:2I:4:ILE:HD11	8:2I:44:LEU:HD12	1.97	0.45
14:2S:28:VAL:HG11	14:2S:98:VAL:HG13	1.97	0.45
16:2U:52:ARG:HG3	16:2U:55:ARG:NH2	2.31	0.45
32:2a:297:G:O2'	32:2a:299:G:N7	2.42	0.45
32:2a:986:A:H1'	50:2s:54:GLY:O	2.16	0.45
33:2b:172:ILE:O	33:2b:176:GLU:HG3	2.16	0.45
34:2c:12:LEU:HD23	34:2c:16:ARG:HB3	1.98	0.45
32:1a:277:C:H5''	48:1q:68:ARG:NH2	2.31	0.45
32:1a:990:C:N4	32:1a:991:U:O4	2.49	0.45
34:1c:6:HIS:HA	34:1c:7:PRO:HD3	1.81	0.45
46:1o:56:LEU:O	46:1o:60:VAL:HG23	2.15	0.45
55:1x:54:5MU:H2'	55:1x:55:PSU:O4'	2.16	0.45
1:2A:195:A:N7	61:2A:4166:HOH:O	2.36	0.45
1:2A:1226:A:OP1	17:2V:84:LYS:NZ	2.40	0.45
1:2A:2131:G:N7	1:2A:2133:G:C2	2.83	0.45
1:2A:2419:U:H2'	1:2A:2420:C:C6	2.51	0.45
1:2A:2525:G:N2	1:2A:2539:C:C2	2.84	0.45
1:2A:2740:A:C6	1:2A:2741:A:C6	3.04	0.45
61:2A:4739:HOH:O	55:2x:76:A:H1'	2.16	0.45
5:2F:129:PHE:CD2	5:2F:163:VAL:HG21	2.52	0.45
6:2G:145:THR:H	6:2G:148:MET:HE3	1.81	0.45
32:2a:533:A:OP1	61:2a:3306:HOH:O	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1121:C:H2'	1:1A:1122:C:H5'	1.99	0.45
1:1A:1845:G:H4'	3:1D:51:VAL:HG21	1.98	0.45
1:1A:1882:U:H2'	1:1A:1883:C:O4'	2.16	0.45
6:1G:43:LEU:HB3	6:1G:44:GLY:H	1.48	0.45
8:1I:110:ASP:HA	8:1I:111:PRO:HD2	1.77	0.45
8:1I:130:TYR:N	8:1I:138:ILE:O	2.44	0.45
32:1a:295:C:H2'	32:1a:296:U:O4'	2.16	0.45
32:1a:375:U:C4	32:1a:376:G:N7	2.84	0.45
54:1y:40:C:H2'	54:1y:41:C:C6	2.52	0.45
1:2A:699:A:H2'	1:2A:700:G:O4'	2.17	0.45
1:2A:969:U:H2'	1:2A:970:C:C6	2.51	0.45
1:2A:2065:C:H2'	1:2A:2066:C:C6	2.51	0.45
1:2A:2533:A:OP1	1:2A:2665:A:O2'	2.26	0.45
1:2A:2578:G:OP2	1:2A:2578:G:H4'	2.16	0.45
7:2H:17:VAL:O	7:2H:45:VAL:HG11	2.16	0.45
7:2H:86:GLU:OE2	7:2H:130:ARG:NH1	2.49	0.45
7:2H:149:ARG:HA	7:2H:162:ILE:HG21	1.98	0.45
10:2O:119:PRO:HB2	15:2T:68:TYR:CE2	2.51	0.45
32:2a:578:C:O2'	32:2a:728:A:N3	2.46	0.45
32:2a:1241:G:H2'	32:2a:1242:C:H6	1.82	0.45
32:2a:1518:MA6:H93	32:2a:1519:MA6:H92	1.98	0.45
1:1A:209:G:O2'	1:1A:222:A:N3	2.42	0.45
1:1A:484:G:O2'	1:1A:495:G:O6	2.35	0.45
1:1A:502:G:H4'	1:1A:527:A:N1	2.31	0.45
1:1A:616:G:H4'	30:18:4:MET:HE2	1.99	0.45
1:1A:992:G:OP2	61:1A:4375:HOH:O	2.21	0.45
1:1A:1128:U:C4	1:1A:1132:A:N1	2.84	0.45
1:1A:1201:A:OP1	16:1U:55:ARG:HD2	2.17	0.45
12:1Q:43:THR:HG22	12:1Q:94:VAL:HG12	1.98	0.45
23:11:64:ALA:HA	23:11:67:ILE:HG13	1.98	0.45
26:14:44:THR:O	26:14:46:GLN:N	2.50	0.45
28:16:8:LYS:HD3	30:18:34:TRP:CD2	2.51	0.45
32:1a:710:G:H5''	37:1f:54:LYS:HE3	1.97	0.45
34:1c:11:ARG:NH2	34:1c:177:THR:O	2.47	0.45
47:1p:43:LYS:HG2	47:1p:48:TRP:CD2	2.52	0.45
51:1t:13:LEU:HD12	51:1t:14:LYS:N	2.32	0.45
1:2A:1027:A:C6	1:2A:1126:A:C4	3.04	0.45
1:2A:1123:C:H1'	31:29:18:ARG:HH22	1.81	0.45
1:2A:1651:G:H2'	1:2A:1652:A:O4'	2.17	0.45
1:2A:1916:A:H2'	1:2A:1917:PSU:O4'	2.16	0.45
1:2A:2712:U:OP1	1:2A:2714:G:H4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2X:60:ARG:NH2	29:27:47:ARG:HH12	2.12	0.45
32:2a:1330:U:H4'	44:2m:23:TYR:CE1	2.51	0.45
32:2a:1517:G:N7	32:2a:1518:MA6:H103	2.32	0.45
1:1A:35:G:H2'	1:1A:36:G:O4'	2.17	0.45
1:1A:1911:A:H2'	1:1A:1912:A:C8	2.52	0.45
3:1D:77:ALA:HA	3:1D:97:TYR:HA	1.97	0.45
11:1P:77:ARG:HB2	11:1P:78:PRO:HD2	1.97	0.45
25:13:59:VAL:O	25:13:60:GLU:HG2	2.17	0.45
32:1a:194:C:H2'	32:1a:195:A:H5''	1.97	0.45
32:1a:731:G:H5'	32:1a:766:A:H4'	1.98	0.45
32:1a:865:A:H2	32:1a:918:A:H4'	1.82	0.45
33:1b:16:HIS:O	33:1b:18:GLY:N	2.50	0.45
42:1k:20:TYR:HB2	42:1k:31:THR:HG23	1.97	0.45
46:1o:25:THR:HG21	46:1o:70:LEU:HB2	1.98	0.45
1:2A:112:U:H5'	24:22:65:ASN:ND2	2.30	0.45
1:2A:801:G:O6	5:2F:53:THR:OG1	2.34	0.45
1:2A:845:G:OP2	1:2A:845:G:N2	2.40	0.45
1:2A:1200:C:H5'	61:2A:4140:HOH:O	2.16	0.45
1:2A:1581:G:H2'	1:2A:1582:C:O4'	2.16	0.45
1:2A:2183:C:H2'	1:2A:2184:G:C8	2.50	0.45
1:2A:2841:C:H2'	1:2A:2842:G:H8	1.81	0.45
2:2B:90:A:C5	2:2B:91:C:H1'	2.52	0.45
32:2a:9:G:H2'	32:2a:10:A:H8	1.81	0.45
32:2a:12:U:O2'	32:2a:526:C:H4'	2.16	0.45
32:2a:336:C:H2'	32:2a:337:C:C6	2.52	0.45
32:2a:943:U:H1'	40:2i:124:GLN:NE2	2.23	0.45
32:2a:1000:U:H2'	32:2a:1001:A:C8	2.52	0.45
32:2a:1004:A:N3	32:2a:1038:C:C2	2.84	0.45
34:2c:48:TYR:HE1	34:2c:118:GLN:HB3	1.80	0.45
54:2w:67:C:H2'	54:2w:68:C:C6	2.51	0.45
1:1A:2165:C:N3	1:1A:2170:G:C6	2.85	0.45
1:1A:2255:U:H2'	1:1A:2256:U:C6	2.52	0.45
3:1D:19:ALA:HB3	3:1D:21:PHE:CE1	2.52	0.45
18:1W:71:VAL:HA	18:1W:107:LEU:HD12	1.99	0.45
32:1a:502:G:H2'	32:1a:503:C:O4'	2.17	0.45
32:1a:966:M2G:HM12	55:1x:34:C:H5'	1.99	0.45
32:1a:1008:C:N3	32:1a:1021:G:O6	2.50	0.45
33:1b:88:ALA:O	33:1b:226:ARG:NH1	2.49	0.45
41:1j:8:LEU:HB3	41:1j:96:ILE:HG22	1.99	0.45
44:1m:73:GLU:O	44:1m:77:ASN:ND2	2.43	0.45
1:2A:108:U:H2'	1:2A:109:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:855:G:H2'	1:2A:856:C:C6	2.52	0.45
1:2A:908:C:OP2	12:2Q:22:LYS:NZ	2.40	0.45
1:2A:2741:A:H2'	1:2A:2742:C:O4'	2.16	0.45
4:2E:5:LEU:HD22	4:2E:197:ILE:HG12	1.98	0.45
5:2F:150:GLY:HA2	5:2F:172:TRP:CD2	2.52	0.45
12:2Q:35:VAL:HG13	12:2Q:130:LYS:HB3	1.97	0.45
21:2Z:6:LYS:HE3	21:2Z:43:GLU:OE1	2.16	0.45
32:2a:123:C:OP1	32:2a:311:C:O2'	2.27	0.45
32:2a:256:U:H2'	32:2a:257:G:C8	2.51	0.45
32:2a:701:C:OP1	32:2a:702:A:O2'	2.23	0.45
33:2b:212:GLN:NE2	33:2b:235:SER:HA	2.31	0.45
40:2i:24:GLY:HA2	40:2i:59:PHE:O	2.16	0.45
43:2l:123:LYS:HE2	43:2l:123:LYS:HB3	1.53	0.45
44:2m:19:LEU:HD21	44:2m:56:LEU:HD21	1.98	0.45
47:2p:17:TYR:CE2	47:2p:41:PRO:HG3	2.51	0.45
55:2x:75:C:OP1	61:2x:201:HOH:O	2.20	0.45
1:1A:323:A:N1	1:1A:346:A:O2'	2.46	0.45
1:1A:714:U:O2	30:18:2:PRO:HD2	2.17	0.45
1:1A:1416:C:HO2'	1:1A:1842:G:HO2'	1.63	0.45
1:1A:2178:G:OP2	1:1A:2178:G:H8	1.99	0.45
1:1A:2291:G:O6	22:10:14:ARG:HG3	2.16	0.45
4:1E:170:LEU:HB3	4:1E:184:VAL:CG2	2.47	0.45
8:1I:109:ILE:HG13	8:1I:130:TYR:CZ	2.52	0.45
14:1S:11:LYS:HE2	14:1S:15:ARG:NH1	2.32	0.45
32:1a:827:U:O2'	32:1a:859:A:N1	2.48	0.45
32:1a:841:U:P	32:1a:841:U:H6	2.39	0.45
32:1a:892:A:O2'	32:1a:1415:G:H4'	2.17	0.45
32:1a:1005:A:OP2	32:1a:1024:G:N1	2.50	0.45
32:1a:1237:C:O2'	32:1a:1300:G:N2	2.39	0.45
32:1a:1376:U:H2'	32:1a:1377:A:H8	1.81	0.45
32:1a:1401:G:H2'	32:1a:1402:4OC:O4'	2.17	0.45
1:2A:40:C:H2'	1:2A:41:C:C6	2.52	0.45
1:2A:300:A:N3	1:2A:319:C:H1'	2.32	0.45
1:2A:526:A:N3	1:2A:2044:C:H1'	2.32	0.45
1:2A:570:G:H2'	1:2A:2030:A:C5	2.51	0.45
1:2A:1331:A:H2'	1:2A:1333:C:H5	1.82	0.45
1:2A:1803:A:O2'	3:2D:259:THR:HG21	2.17	0.45
15:2T:6:LEU:O	15:2T:10:VAL:HG23	2.17	0.45
17:2V:61:VAL:HA	17:2V:94:LEU:HD23	1.99	0.45
19:2X:94:GLY:N	19:2X:95:LEU:HA	2.29	0.45
32:2a:742:G:OP2	46:2o:35:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1002:G:C2	32:2a:1003:G:C8	3.01	0.45
54:2w:72:C:H2'	54:2w:73:A:C8	2.52	0.45
1:1A:273:G:N2	8:1I:50:ARG:HH12	2.15	0.45
1:1A:1121:C:C2'	1:1A:1122:C:H5'	2.47	0.45
1:1A:1138:C:H2'	1:1A:1139:G:O4'	2.17	0.45
1:1A:2197:C:H2'	1:1A:2198:A:O4'	2.17	0.45
61:1A:4816:HOH:O	19:1X:50:LYS:HE2	2.17	0.45
26:14:24:THR:HG1	26:14:25:TYR:H	1.64	0.45
32:1a:662:G:H2'	32:1a:663:A:H8	1.80	0.45
1:2A:223:A:O2'	1:2A:420:C:O2	2.29	0.45
1:2A:839:U:H2'	1:2A:840:C:C6	2.52	0.45
1:2A:994:C:O2'	1:2A:996:A:OP1	2.21	0.45
1:2A:1171:G:H22	1:2A:1178:C:N4	2.15	0.45
1:2A:1187:G:H8	1:2A:1187:G:OP2	2.00	0.45
1:2A:2558:C:H2'	1:2A:2559:C:O4'	2.17	0.45
3:2D:83:GLU:OE1	3:2D:104:TYR:OH	2.28	0.45
32:2a:619:U:C2	35:2d:135:LEU:HD22	2.52	0.45
33:2b:185:ILE:HG22	33:2b:199:TYR:HD2	1.80	0.45
1:1A:99:G:H21	24:12:7:ARG:NH2	2.11	0.45
1:1A:645:G:H2'	1:1A:645:G:N3	2.31	0.45
1:1A:2018:C:H4'	1:1A:2019:G:OP1	2.15	0.45
1:1A:2273:C:OP1	22:10:19:LYS:NZ	2.49	0.45
1:1A:2864:G:H2'	1:1A:2865:C:C6	2.52	0.45
2:1B:33:G:H5'	6:1G:2:PRO:HD3	1.99	0.45
21:1Z:1:MET:HA	21:1Z:2:GLU:HA	1.72	0.45
26:14:15:ILE:O	26:14:33:VAL:N	2.49	0.45
29:17:24:THR:HG22	29:17:26:GLY:N	2.32	0.45
32:1a:167:G:H2'	32:1a:168:G:C8	2.52	0.45
32:1a:625:G:H4'	47:1p:16:HIS:CD2	2.52	0.45
32:1a:909:A:H2'	32:1a:910:C:O4'	2.17	0.45
33:1b:97:TRP:CH2	33:1b:173:ALA:HA	2.51	0.45
34:1c:35:GLU:CD	34:1c:59:ARG:HH22	2.24	0.45
39:1h:7:ALA:HB2	39:1h:85:ARG:HG3	1.97	0.45
48:1q:45:HIS:NE2	48:1q:47:PRO:HG3	2.31	0.45
1:2A:195:A:H5''	1:2A:196:A:O5'	2.17	0.45
1:2A:271(H):G:H2'	1:2A:271(I):G:C8	2.50	0.45
1:2A:483:A:H1'	20:2Y:59:GLY:O	2.17	0.45
1:2A:601:C:O2'	1:2A:605:C:OP1	2.34	0.45
1:2A:1429:G:H2'	1:2A:1430:C:H6	1.81	0.45
1:2A:1639:U:H2'	1:2A:1640:C:H5''	1.98	0.45
1:2A:2443:C:H2'	1:2A:2444:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2538:C:H2'	1:2A:2539:C:C6	2.52	0.45
1:2A:2683:C:OP1	15:2T:53:ARG:NH2	2.50	0.45
2:2B:80:U:O2'	2:2B:81:G:H8	1.99	0.45
5:2F:152:GLU:OE1	5:2F:191:ARG:NE	2.47	0.45
5:2F:167:ALA:HB1	5:2F:173:VAL:HG11	1.98	0.45
8:2I:75:LEU:HD22	8:2I:105:HIS:CD2	2.52	0.45
20:2Y:73:ARG:HH21	20:2Y:83:THR:C	2.25	0.45
21:2Z:138:GLU:H	21:2Z:156:LYS:HE2	1.82	0.45
32:2a:1005:A:H3'	32:2a:1006:C:C6	2.51	0.45
5:1F:28:ILE:O	5:1F:30:PRO:HD3	2.17	0.44
9:1N:61:ARG:HD3	9:1N:61:ARG:HA	1.81	0.44
24:12:52:ASP:O	24:12:56:GLN:HG3	2.18	0.44
32:1a:1266:G:N2	32:1a:1269:A:OP2	2.43	0.44
33:1b:212:GLN:NE2	33:1b:234:PRO:O	2.50	0.44
39:1h:51:VAL:HG11	39:1h:60:ARG:NH1	2.29	0.44
41:1j:11:PHE:HE1	41:1j:67:THR:HG22	1.82	0.44
1:2A:332:A:O2'	1:2A:334:C:OP2	2.23	0.44
1:2A:948:G:OP1	61:2A:4006:HOH:O	2.21	0.44
1:2A:2120:G:H2'	1:2A:2121:G:H8	1.83	0.44
26:24:49:PHE:HB3	26:24:50:VAL:H	1.53	0.44
32:2a:181:G:H4'	32:2a:182:U:H5'	1.99	0.44
32:2a:284:G:H2'	32:2a:285:G:H8	1.81	0.44
40:2i:128:ARG:NH2	55:2x:33:U:OP2	2.50	0.44
43:2l:33:ARG:HA	43:2l:33:ARG:HD3	1.71	0.44
1:1A:756:U:H2'	1:1A:757:G:H8	1.83	0.44
1:1A:1314:A:C2	1:1A:2035:A:C4	3.06	0.44
1:1A:2163:G:C4	1:1A:2164:C:H1'	2.52	0.44
1:1A:2464:C:OP2	61:1A:4379:HOH:O	2.21	0.44
32:1a:438:G:H4'	35:1d:123:HIS:ND1	2.32	0.44
32:1a:576:G:O6	32:1a:880:C:O2'	2.30	0.44
32:1a:626:U:H2'	32:1a:627:G:H8	1.83	0.44
33:1b:36:ARG:C	33:1b:38:GLY:H	2.26	0.44
35:1d:19:LEU:O	35:1d:21:LEU:HG	2.17	0.44
38:1g:48:LYS:O	38:1g:52:GLU:HG3	2.18	0.44
39:1h:83:ILE:HG13	39:1h:137:VAL:HG22	1.99	0.44
1:2A:637:A:OP1	11:2P:133:SER:OG	2.28	0.44
1:2A:888:C:OP1	44:2m:93:ARG:NH1	2.50	0.44
1:2A:1012:U:C5	9:2N:28:THR:HG21	2.52	0.44
1:2A:1507:A:O2'	1:2A:1508:A:O5'	2.28	0.44
1:2A:1721:G:N1	1:2A:1739:U:OP2	2.50	0.44
1:2A:1903:G:OP1	3:2D:241:PRO:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2119:A:C5	1:2A:2170:A:C6	3.06	0.44
1:2A:2314:C:H2'	1:2A:2315:G:C8	2.51	0.44
9:2N:33:LEU:HD12	9:2N:38:HIS:HD2	1.82	0.44
14:2S:87:PHE:CE1	14:2S:102:ALA:HB2	2.52	0.44
32:2a:224:C:H2'	32:2a:225:C:C6	2.52	0.44
32:2a:735:C:H2'	32:2a:736:C:H6	1.81	0.44
32:2a:1118:C:OP1	40:2i:9:ARG:HD2	2.17	0.44
32:2a:1270:C:OP2	52:2u:24:ARG:NH2	2.50	0.44
34:2c:116:VAL:HG21	34:2c:202:ILE:HD11	1.99	0.44
35:2d:173:TRP:CD1	35:2d:174:LEU:HG	2.52	0.44
55:2x:3:C:H2'	55:2x:4:G:H8	1.82	0.44
1:1A:1221:G:H1'	1:1A:1222:A:H5'	1.99	0.44
1:1A:1717:C:OP1	61:1A:4374:HOH:O	2.21	0.44
1:1A:2190:G:O6	1:1A:2193:A:H5''	2.16	0.44
14:1S:43:GLU:OE2	22:10:49:LYS:NZ	2.30	0.44
20:1Y:6:HIS:H	20:1Y:6:HIS:CD2	2.36	0.44
32:1a:44:G:C2	32:1a:45:U:H1'	2.53	0.44
32:1a:648:A:H2'	32:1a:649:G:C8	2.52	0.44
32:1a:765:G:H5''	32:1a:766:A:OP1	2.17	0.44
32:1a:922:G:C6	32:1a:923:A:C6	3.04	0.44
32:1a:1258:G:H2'	32:1a:1259:C:C6	2.52	0.44
40:1i:17:VAL:HG11	40:1i:80:GLY:C	2.42	0.44
54:1y:56:C:H2'	54:1y:57:G:O4'	2.18	0.44
1:2A:729:G:H2'	1:2A:1775:U:H1'	1.99	0.44
1:2A:824:A:H1'	1:2A:2358:G:N7	2.31	0.44
1:2A:1138:G:H5''	1:2A:1139:G:OP2	2.17	0.44
1:2A:1366:A:OP1	23:21:3:LYS:NZ	2.40	0.44
1:2A:2144:U:H1'	1:2A:2148:G:N2	2.32	0.44
1:2A:2152:G:C2	1:2A:2153:G:H1'	2.52	0.44
1:2A:2232:U:P	23:21:40:ARG:HH12	2.40	0.44
1:2A:2274:A:O2'	1:2A:2276:G:OP1	2.33	0.44
1:2A:2624:G:N7	61:2A:4169:HOH:O	2.36	0.44
3:2D:77:ALA:HB2	3:2D:97:TYR:CD1	2.53	0.44
9:2N:67:LEU:C	9:2N:88:GLU:HG3	2.42	0.44
32:2a:937:A:H1'	32:2a:1379:G:N2	2.33	0.44
32:2a:1376:U:P	38:2g:94:ARG:HH22	2.41	0.44
33:2b:185:ILE:HG22	33:2b:199:TYR:HB2	1.98	0.44
34:2c:131:ARG:HD3	34:2c:166:GLU:OE2	2.18	0.44
36:2e:93:PRO:HG2	39:2h:105:ARG:NE	2.32	0.44
39:2h:8:ASP:O	39:2h:12:ARG:N	2.42	0.44
40:2i:37:PHE:HD1	40:2i:40:LEU:HD12	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1627:A:OP2	1:1A:1627:A:H8	2.00	0.44
1:1A:1821:C:H5''	1:1A:1822:A:OP1	2.17	0.44
1:1A:1921:G:N3	1:1A:1921:G:H2'	2.32	0.44
1:1A:2182:G:O6	1:1A:2183:C:N4	2.50	0.44
15:1T:118:ARG:HA	15:1T:121:ILE:HD12	1.99	0.44
32:1a:107:G:N7	51:1t:15:ARG:NH2	2.65	0.44
32:1a:328:C:H4'	32:1a:329:A:H5'	1.98	0.44
32:1a:530:G:N7	61:1a:2070:HOH:O	2.36	0.44
32:1a:953:G:H2'	32:1a:954:G:O4'	2.17	0.44
32:1a:1343:G:H2'	32:1a:1344:C:C6	2.52	0.44
44:1m:20:THR:HA	44:1m:25:ILE:O	2.17	0.44
55:1x:4:G:H2'	55:1x:5:G:H8	1.80	0.44
1:2A:565:C:H4'	1:2A:1253:A:C6	2.52	0.44
1:2A:646:A:H2'	1:2A:647:G:O4'	2.17	0.44
1:2A:996:A:C2	1:2A:997:G:C8	3.06	0.44
1:2A:1184:G:C6	1:2A:1185:C:C4	3.06	0.44
1:2A:1941:C:N4	1:2A:1965:C:H5'	2.33	0.44
1:2A:2357:U:OP1	22:20:20:ARG:NE	2.42	0.44
7:2H:33:LEU:HD11	7:2H:136:ILE:HG22	1.98	0.44
8:2I:84:GLY:O	8:2I:86:THR:N	2.47	0.44
32:2a:815:A:H4'	32:2a:817:C:C5	2.53	0.44
32:2a:1012:U:H2'	32:2a:1013:G:C8	2.53	0.44
33:2b:69:LEU:HB3	33:2b:162:ILE:HG22	2.00	0.44
36:2e:36:ASP:C	36:2e:38:GLN:H	2.26	0.44
42:2k:81:ASP:OD1	42:2k:106:LYS:HB2	2.17	0.44
44:2m:89:GLY:O	44:2m:93:ARG:N	2.48	0.44
32:1a:1127:G:H1'	32:1a:1280:A:C6	2.52	0.44
1:2A:142:A:N1	1:2A:1595:G:O2'	2.50	0.44
1:2A:1263:U:C4	1:2A:1264:G:C6	3.06	0.44
1:2A:2576:G:O2'	1:2A:2579:C:OP2	2.22	0.44
5:2F:64:ILE:HG21	5:2F:78:ILE:HG23	2.00	0.44
10:2O:76:ALA:O	15:2T:74:ARG:HG3	2.18	0.44
18:2W:46:PHE:O	18:2W:50:VAL:HG23	2.18	0.44
21:2Z:40:ASP:OD2	21:2Z:42:VAL:HG13	2.17	0.44
25:23:7:LYS:HB2	25:23:34:GLU:HG3	1.99	0.44
32:2a:46:G:O2'	32:2a:365:U:H1'	2.18	0.44
32:2a:300:A:H8	32:2a:300:A:O5'	2.01	0.44
32:2a:923:A:O2'	32:2a:1399:C:OP2	2.28	0.44
32:2a:973:G:H3'	32:2a:974:A:H5''	1.99	0.44
32:2a:1040:U:C2	32:2a:1041:A:C8	3.06	0.44
33:2b:58:ILE:HD11	33:2b:185:ILE:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1084:C:H42	1:1A:1163:G:H1	1.65	0.44
1:1A:1211:U:H2'	1:1A:1212:C:C6	2.52	0.44
1:1A:1639:G:H2'	1:1A:1640:G:C8	2.53	0.44
18:1W:68:ARG:NH1	18:1W:111:HIS:HA	2.32	0.44
32:1a:221:C:H2'	32:1a:222:U:C6	2.49	0.44
32:1a:390:C:H2'	32:1a:391:G:C8	2.53	0.44
43:1l:113:ARG:HH21	43:1l:116:SER:HB2	1.83	0.44
50:1s:50:ALA:HB1	50:1s:57:HIS:HB3	1.99	0.44
1:2A:864:G:H1'	1:2A:914:C:H42	1.83	0.44
1:2A:1153:C:H2'	1:2A:1154:G:O4'	2.18	0.44
1:2A:1366:A:H2'	1:2A:1367:A:O4'	2.18	0.44
1:2A:2136:C:O2'	1:2A:2137:C:H6	2.00	0.44
1:2A:2881:C:H2'	1:2A:2882:A:O4'	2.18	0.44
4:2E:52:LEU:HB3	4:2E:76:ARG:HD3	1.99	0.44
5:2F:18:ARG:NH1	5:2F:127:GLU:OE2	2.45	0.44
32:2a:41:G:H2'	32:2a:42:G:C8	2.52	0.44
32:2a:399:G:H2'	32:2a:400:C:C6	2.51	0.44
33:2b:118:LEU:O	33:2b:122:PHE:HB3	2.18	0.44
34:2c:18:TRP:HE3	34:2c:18:TRP:H	1.66	0.44
36:2e:127:ASN:HA	36:2e:128:PRO:HD3	1.84	0.44
38:2g:26:PHE:CE2	38:2g:30:ILE:HD11	2.52	0.44
55:2x:17:C:H5'	55:2x:61:C:OP1	2.17	0.44
1:1A:469:A:H1'	1:1A:1246:C:O4'	2.18	0.44
1:1A:906:G:O2'	1:1A:962:G:O6	2.30	0.44
1:1A:2576:A:C2	1:1A:2659:U:H4'	2.52	0.44
1:1A:2624:C:OP2	27:15:2:ALA:N	2.51	0.44
12:1Q:79:LEU:HD23	12:1Q:79:LEU:HA	1.89	0.44
16:1U:16:LYS:HB3	16:1U:16:LYS:HE2	1.80	0.44
31:19:2:LYS:NZ	31:19:31:LYS:O	2.44	0.44
32:1a:200:G:H1	32:1a:217:C:N4	2.16	0.44
32:1a:679:C:H2'	32:1a:680:C:C6	2.53	0.44
32:1a:1029:C:H41	32:1a:1030(A):G:N2	2.15	0.44
33:1b:16:HIS:HB3	33:1b:210:SER:HB2	1.99	0.44
42:1k:27:ASN:OD1	42:1k:28:THR:N	2.48	0.44
1:2A:2019:A:O4'	16:2U:34:LYS:HE3	2.17	0.44
11:2P:82:GLY:HA2	11:2P:113:LYS:O	2.17	0.44
12:2Q:30:GLY:O	12:2Q:134:ARG:HD3	2.18	0.44
26:24:60:GLN:O	26:24:62:ARG:N	2.51	0.44
32:2a:441:A:H3'	32:2a:442:C:C6	2.53	0.44
32:2a:1268:A:H2'	32:2a:1269:A:C8	2.53	0.44
33:2b:50:GLU:HB3	33:2b:200:ILE:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:174:U:H4'	1:1A:207:A:H4'	2.00	0.44
1:1A:603:C:H2'	1:1A:604:C:C6	2.52	0.44
1:1A:1039:G:OP1	16:1U:50:ARG:HD2	2.18	0.44
1:1A:1056:A:N3	1:1A:1199:C:H1'	2.33	0.44
1:1A:1111:U:H5''	1:1A:1112:U:OP2	2.18	0.44
1:1A:1131:A:HO2'	1:1A:1150:C:HO2'	1.65	0.44
1:1A:1744:G:OP2	1:1A:1745:A:O2'	2.31	0.44
1:1A:2156:A:OP1	1:1A:2178:G:N2	2.51	0.44
1:1A:2290:A:OP2	22:10:12:ASN:ND2	2.47	0.44
2:1B:88:C:H2'	2:1B:89:G:O4'	2.18	0.44
6:1G:79:ASN:H	6:1G:79:ASN:HD22	1.63	0.44
32:1a:90:U:H2'	32:1a:91:C:C6	2.53	0.44
32:1a:250:A:H4'	32:1a:251:G:O5'	2.18	0.44
32:1a:743:U:H2'	32:1a:744:C:C6	2.52	0.44
34:1c:182:ILE:HG12	34:1c:203:PHE:HD1	1.82	0.44
40:1i:77:ILE:O	40:1i:81:ILE:HG22	2.18	0.44
51:1t:47:GLY:HA2	51:1t:48:LYS:C	2.42	0.44
54:1w:43:C:H2'	54:1w:44:G:C8	2.53	0.44
1:2A:319:C:H2'	1:2A:320:A:O4'	2.18	0.44
1:2A:858:U:O2	1:2A:2268:A:H2'	2.18	0.44
1:2A:1131:G:O6	1:2A:2040:C:H1'	2.18	0.44
1:2A:1647:G:OP1	61:2A:4005:HOH:O	2.21	0.44
1:2A:2238:G:H2'	1:2A:2238:G:N3	2.33	0.44
2:2B:75:G:N3	21:2Z:85:HIS:CE1	2.86	0.44
3:2D:5:LYS:HG2	3:2D:17:THR:HG22	1.99	0.44
5:2F:110:LEU:HD11	5:2F:181:LEU:HG	1.99	0.44
14:2S:11:LYS:HG3	14:2S:91:PRO:HD3	1.99	0.44
25:23:31:LEU:HD23	25:23:31:LEU:HA	1.86	0.44
26:24:45:GLY:O	26:24:47:GLN:N	2.51	0.44
26:24:62:ARG:HD3	26:24:62:ARG:HA	1.66	0.44
32:2a:45:U:H2'	32:2a:46:G:C8	2.53	0.44
32:2a:376:G:H5''	47:2p:5:ARG:HB2	2.00	0.44
32:2a:769:G:H4'	32:2a:1513:A:H4'	2.00	0.44
32:2a:1129:C:H2'	32:2a:1139:G:N7	2.32	0.44
33:2b:158:LEU:HA	33:2b:159:PRO:HD3	1.84	0.44
34:2c:52:LEU:HD11	34:2c:55:VAL:HG22	2.00	0.44
34:2c:131:ARG:NE	34:2c:135:LYS:HE3	2.33	0.44
51:2t:10:LEU:HD12	51:2t:10:LEU:HA	1.81	0.44
1:1A:1513:G:H2'	1:1A:1594:C:N4	2.33	0.44
1:1A:1830:G:O2'	3:1D:181:GLU:OE2	2.28	0.44
1:1A:2162:C:H1'	1:1A:2174:G:H22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2584:A:C8	4:1E:144:ARG:HD3	2.52	0.44
7:1H:160:LYS:HB3	7:1H:160:LYS:HE2	1.81	0.44
12:1Q:38:GLU:HA	12:1Q:99:PRO:HG3	2.00	0.44
26:14:63:TYR:HA	26:14:64:GLY:HA2	1.77	0.44
32:1a:90:U:O2'	32:1a:91:C:OP1	2.29	0.44
32:1a:1237:C:HO2'	32:1a:1300:G:H22	1.64	0.44
33:1b:16:HIS:HB2	33:1b:204:ASN:CB	2.48	0.44
41:1j:40:LEU:HB2	41:1j:69:ASN:HB2	1.99	0.44
44:1m:29:ARG:HD3	44:1m:64:TRP:CD2	2.53	0.44
1:2A:1006:C:C2	1:2A:1138:G:N2	2.86	0.44
1:2A:1973:G:H2'	1:2A:1974:C:C6	2.53	0.44
1:2A:2630:G:H2'	1:2A:2631:G:C8	2.53	0.44
5:2F:133:ASN:N	5:2F:138:GLU:OE1	2.50	0.44
20:2Y:52:SER:HB2	20:2Y:53:PRO:HD2	2.00	0.44
32:2a:114:U:H2'	32:2a:115:G:C8	2.52	0.44
32:2a:666:G:OP2	32:2a:725:G:N2	2.37	0.44
32:2a:1038:C:H2'	32:2a:1039:C:C5	2.52	0.44
32:2a:1105:A:H2'	32:2a:1106:G:H8	1.83	0.44
32:2a:1319:A:N6	32:2a:1361:G:H21	2.14	0.44
33:2b:27:LYS:C	33:2b:194:PRO:HG2	2.43	0.44
33:2b:81:VAL:HA	33:2b:215:LEU:HD21	1.99	0.44
38:2g:69:VAL:HG21	38:2g:104:LEU:HD11	1.99	0.44
39:2h:29:SER:HB3	39:2h:32:LYS:HG3	1.99	0.44
41:2j:22:LYS:O	41:2j:26:ALA:N	2.51	0.44
50:2s:22:LEU:HD22	50:2s:31:ILE:HD11	1.99	0.44
54:2y:50:U:C2	54:2y:65:G:C2	3.06	0.44
1:1A:231:G:C8	30:18:5:LYS:HG2	2.52	0.43
1:1A:324:A:OP1	20:1Y:86:ARG:NH2	2.51	0.43
1:1A:656:A:H2'	1:1A:657:A:O4'	2.17	0.43
1:1A:1714:G:O2'	1:1A:2013:U:O4	2.29	0.43
1:1A:2298:A:H4'	1:1A:2299:A:O4'	2.18	0.43
2:1B:91:C:OP1	12:1Q:16:ARG:HD2	2.18	0.43
3:1D:8:PRO:HB3	3:1D:14:ARG:HD2	1.98	0.43
8:1I:22:LYS:HA	8:1I:23:PRO:HD3	1.92	0.43
33:1b:124:SER:HA	33:1b:125:PRO:HA	1.72	0.43
38:1g:104:LEU:HD12	38:1g:134:ALA:HB1	2.00	0.43
1:2A:64:A:O3'	19:2X:71:GLY:HA3	2.18	0.43
1:2A:143:G:C2	1:2A:143(A):C:C2	3.06	0.43
1:2A:884:C:H3'	1:2A:885:C:C6	2.53	0.43
1:2A:1628:G:H2'	1:2A:1629:U:H6	1.82	0.43
1:2A:1633:G:OP2	61:2A:4068:HOH:O	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2507:C:O2'	54:2w:75:C:O2	2.26	0.43
4:2E:128:SER:OG	4:2E:129:HIS:N	2.48	0.43
23:21:23:LYS:HB2	54:2y:74:C:H4'	1.99	0.43
32:2a:187:C:H2'	32:2a:188:C:C6	2.53	0.43
32:2a:499:A:H4'	32:2a:500:G:OP1	2.17	0.43
32:2a:689:C:OP2	42:2k:55:LYS:HE2	2.17	0.43
32:2a:918:A:H2'	32:2a:919:A:O4'	2.17	0.43
32:2a:1133:G:C4	32:2a:1134:G:C8	3.06	0.43
34:2c:8:ILE:HG23	34:2c:16:ARG:HG2	1.99	0.43
34:2c:16:ARG:HD3	34:2c:16:ARG:HA	1.80	0.43
46:2o:43:LEU:HA	46:2o:43:LEU:HD23	1.84	0.43
54:2w:21:A:N6	54:2w:46:7MG:C4	2.86	0.43
1:1A:2227:G:OP2	1:1A:2227:G:H4'	2.18	0.43
5:1F:135:LYS:HB2	5:1F:138:GLU:HG3	1.99	0.43
6:1G:34:LEU:HD12	6:1G:100:TRP:CZ3	2.53	0.43
9:1N:75:TYR:CE2	9:1N:77:GLY:HA2	2.53	0.43
15:1T:65:LYS:HE3	15:1T:67:SER:HB2	2.00	0.43
21:1Z:9:TYR:OH	21:1Z:61:LEU:HD23	2.17	0.43
21:1Z:15:PRO:O	21:1Z:19:ARG:HG3	2.17	0.43
32:1a:161:A:H2'	32:1a:162:A:C8	2.53	0.43
32:1a:404:U:H2'	32:1a:405:U:C6	2.52	0.43
32:1a:737:A:H2'	32:1a:738:C:C6	2.53	0.43
1:2A:2319:G:H22	14:2S:3:ARG:CD	2.30	0.43
1:2A:2406:U:C2	11:2P:72:PRO:HG2	2.53	0.43
1:2A:2841:C:H2'	1:2A:2842:G:C8	2.53	0.43
5:2F:29:ASN:H	5:2F:112:MET:CE	2.31	0.43
7:2H:12:PRO:O	7:2H:15:VAL:HG12	2.18	0.43
7:2H:13:LYS:HA	7:2H:14:GLY:HA2	1.52	0.43
32:2a:834:C:H2'	32:2a:835:U:H6	1.83	0.43
32:2a:1054:C:C5	54:2w:34:G:H1'	2.53	0.43
32:2a:1286:A:H2'	32:2a:1287:A:H4'	2.00	0.43
33:2b:74:LYS:NZ	33:2b:206:ASP:OD1	2.36	0.43
35:2d:110:PHE:N	35:2d:110:PHE:CD1	2.87	0.43
40:2i:17:VAL:HG11	40:2i:81:ILE:HD13	2.00	0.43
42:2k:48:ILE:C	42:2k:50:TYR:H	2.25	0.43
45:2n:37:PHE:HE2	45:2n:44:LEU:HD13	1.83	0.43
49:2r:33:ASP:OD2	49:2r:36:ASN:HB2	2.18	0.43
54:2w:68:C:H2'	54:2w:69:G:C8	2.49	0.43
1:1A:207:A:C2	1:1A:224:U:H4'	2.53	0.43
1:1A:549:U:H2'	1:1A:550:U:C6	2.54	0.43
1:1A:1232:G:H5''	17:1V:81:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1U:34:LYS:HD3	16:1U:34:LYS:HA	1.69	0.43
32:1a:92:C:H2'	32:1a:93:G:H8	1.84	0.43
32:1a:691:G:H2'	32:1a:692:U:C6	2.54	0.43
32:1a:1149:C:H2'	32:1a:1150:U:C6	2.52	0.43
32:1a:1239:A:H62	32:1a:1299:A:H62	1.65	0.43
32:1a:1280:A:OP1	41:1j:7:LYS:NZ	2.49	0.43
36:1e:57:LYS:HG2	36:1e:61:TYR:CE2	2.53	0.43
39:1h:121:ASP:OD1	39:1h:121:ASP:N	2.51	0.43
1:2A:144:C:H2'	1:2A:145:G:H8	1.83	0.43
1:2A:571:A:N6	1:2A:2499:C:O3'	2.48	0.43
1:2A:573:G:O2'	1:2A:574:C:H3'	2.18	0.43
2:2B:29:A:H2'	2:2B:30:C:C6	2.53	0.43
7:2H:35:VAL:O	7:2H:37:VAL:HG23	2.18	0.43
32:2a:564:C:HO2'	39:2h:91:ARG:HH22	1.63	0.43
32:2a:565:U:OP2	32:2a:566:G:O2'	2.25	0.43
39:2h:104:ARG:HD3	39:2h:104:ARG:HA	1.84	0.43
54:2w:38:A:H2'	54:2w:39:PSU:O4'	2.18	0.43
54:2y:15:G:N2	54:2y:48:C:N4	2.62	0.43
54:2y:59:U:H3'	54:2y:60:U:O2	2.18	0.43
1:1A:515:G:N7	18:1W:49:LYS:NZ	2.66	0.43
1:1A:1218:G:O2'	1:1A:1219:A:O4'	2.33	0.43
1:1A:1849:U:O4	3:1D:154:LYS:HD2	2.18	0.43
1:1A:2279:A:H5''	1:1A:2280:A:H5'	2.01	0.43
1:1A:2859:U:H4'	1:1A:2878:A:C2	2.54	0.43
10:1O:120:GLU:HB2	15:1T:68:TYR:CE2	2.53	0.43
19:1X:94:GLY:H	19:1X:95:LEU:HB2	1.82	0.43
32:1a:189(K):U:H2'	32:1a:189(L):G:C8	2.54	0.43
32:1a:407:G:H2'	32:1a:408:A:C8	2.53	0.43
32:1a:505:G:N7	61:1a:2072:HOH:O	2.36	0.43
32:1a:1125:U:H4'	41:1j:5:ARG:HH22	1.83	0.43
32:1a:1304:G:C6	32:1a:1305:G:N1	2.87	0.43
35:1d:112:VAL:H	35:1d:116:GLN:HE21	1.65	0.43
43:1l:46:LYS:HG2	43:1l:92:OTD:O	2.19	0.43
1:2A:192:C:O2'	1:2A:802:A:N3	2.50	0.43
1:2A:323:G:O2'	1:2A:1205:U:N3	2.36	0.43
1:2A:375:C:H2'	1:2A:376:C:C6	2.53	0.43
1:2A:413:C:O5'	1:2A:413:C:H6	2.01	0.43
1:2A:757:U:H2'	1:2A:758:C:O4'	2.19	0.43
1:2A:868:U:C4	1:2A:869:G:N7	2.86	0.43
1:2A:1225:G:C6	1:2A:1226:A:C6	3.06	0.43
1:2A:1266:G:O5'	18:2W:15:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1493:C:N4	1:2A:2206:G:O2'	2.45	0.43
1:2A:1613:G:C2	1:2A:1619:G:C5	3.06	0.43
1:2A:2287:A:O2'	1:2A:2288:A:H5''	2.18	0.43
1:2A:2386:C:H2'	1:2A:2387:U:C6	2.53	0.43
2:2B:103:G:N2	21:2Z:73:GLN:HE22	2.15	0.43
14:2S:15:ARG:O	14:2S:19:LYS:HG3	2.17	0.43
39:2h:121:ASP:N	39:2h:121:ASP:OD1	2.51	0.43
1:1A:2036:A:H2'	1:1A:2037:A:C8	2.53	0.43
1:1A:2164:C:O2	1:1A:2171:G:N1	2.50	0.43
1:1A:2826:C:O2	1:1A:2893:A:O2'	2.32	0.43
6:1G:122:PRO:HG3	6:1G:182:LYS:H	1.83	0.43
32:1a:666:G:H5'	32:1a:726:C:H1'	2.01	0.43
32:1a:1084:G:C5	32:1a:1085:U:C4	3.07	0.43
44:1m:3:ARG:HG3	44:1m:4:ILE:H	1.83	0.43
46:1o:84:LYS:HA	46:1o:84:LYS:HD2	1.90	0.43
54:1y:31:A:H2'	54:1y:32:PSU:O4'	2.18	0.43
1:2A:524:U:H2'	1:2A:525:U:C6	2.54	0.43
1:2A:700:G:H2'	1:2A:701:G:O4'	2.18	0.43
1:2A:996:A:O3'	16:2U:91:ASP:HB2	2.19	0.43
1:2A:1364:G:C8	23:21:3:LYS:HD2	2.53	0.43
1:2A:1448:G:O2'	1:2A:1528(A):A:N1	2.47	0.43
1:2A:1834:U:H4'	1:2A:1969:A:C6	2.53	0.43
1:2A:2119:A:N7	1:2A:2170:A:N6	2.67	0.43
1:2A:2655:G:O2'	1:2A:2664:G:O6	2.27	0.43
3:2D:242:ARG:HH11	3:2D:242:ARG:CG	2.12	0.43
5:2F:33:LEU:HD12	5:2F:33:LEU:HA	1.83	0.43
7:2H:26:VAL:O	7:2H:32:GLU:HA	2.18	0.43
10:2O:34:THR:OG1	10:2O:35:VAL:N	2.50	0.43
12:2Q:81:VAL:HG12	22:2O:5:LYS:HD3	2.01	0.43
20:2Y:9:LYS:HA	20:2Y:10:GLY:HA2	1.59	0.43
32:2a:246:A:OP1	48:2q:100:LYS:HD2	2.18	0.43
32:2a:674:G:H2'	32:2a:675:A:H8	1.83	0.43
32:2a:989:C:H1'	32:2a:1016:A:H2	1.83	0.43
32:2a:1378:C:N4	32:2a:1379:G:N3	2.66	0.43
34:2c:134:ILE:HG22	34:2c:168:ALA:HB3	1.99	0.43
35:2d:205:GLU:OE2	36:2e:107:ARG:HD3	2.18	0.43
38:2g:140:ASP:OD1	54:2y:41:C:O2'	2.36	0.43
47:2p:22:THR:HA	47:2p:33:ILE:HG13	1.99	0.43
1:1A:233:A:H4'	11:1P:74:GLU:HB2	2.00	0.43
1:1A:449:A:H2'	1:1A:450:A:C8	2.53	0.43
1:1A:836:A:OP1	61:1A:4380:HOH:O	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1781:G:O2'	1:1A:2870:A:N1	2.42	0.43
5:1F:150:GLY:HA2	5:1F:172:TRP:CE3	2.52	0.43
6:1G:64:THR:HB	6:1G:94:LEU:HD21	2.00	0.43
7:1H:4:ILE:O	7:1H:69:ARG:HD2	2.18	0.43
8:1I:133:HIS:ND1	8:1I:134:PRO:O	2.50	0.43
11:1P:63:PRO:HB2	30:18:30:ARG:NH2	2.34	0.43
15:1T:24:PRO:HD3	15:1T:52:ILE:HD12	2.00	0.43
32:1a:814:A:H2'	32:1a:816:A:H5''	2.00	0.43
32:1a:962:C:H2'	32:1a:963:G:O4'	2.19	0.43
32:1a:1027:C:C4	32:1a:1034:G:N1	2.87	0.43
35:1d:194:LEU:HG	35:1d:196:LEU:CD1	2.49	0.43
38:1g:22:LEU:HG	38:1g:62:PHE:HE2	1.83	0.43
54:1y:5:G:H1'	54:1y:69:G:N2	2.34	0.43
1:2A:459:U:H4'	29:27:40:TRP:CZ3	2.53	0.43
1:2A:1019:U:HO2'	1:2A:1021:A:H2	1.64	0.43
1:2A:2127:G:N2	1:2A:2161:C:N3	2.65	0.43
1:2A:2319:G:N2	14:2S:3:ARG:HD3	2.32	0.43
1:2A:2557:G:H2'	1:2A:2558:C:C6	2.54	0.43
4:2E:181:LEU:HA	4:2E:181:LEU:HD12	1.73	0.43
6:2G:170:ARG:NH2	6:2G:182:LYS:O	2.47	0.43
11:2P:7:ARG:HG3	11:2P:8:PRO:HD2	2.00	0.43
32:2a:359:U:H2'	32:2a:360:A:H8	1.83	0.43
32:2a:1168:A:H8	32:2a:1168:A:OP1	2.02	0.43
32:2a:1395:C:H3'	61:2a:3333:HOH:O	2.18	0.43
33:2b:18:GLY:HA2	33:2b:42:ILE:HG13	2.00	0.43
38:2g:12:LEU:HD23	38:2g:24:THR:HG22	2.01	0.43
40:2i:54:ASP:C	40:2i:56:LEU:H	2.27	0.43
41:2j:7:LYS:O	41:2j:97:GLU:N	2.38	0.43
1:1A:181:C:O2'	1:1A:849:A:N3	2.49	0.43
1:1A:1221:G:H1'	1:1A:1222:A:C5'	2.48	0.43
32:1a:193:C:H2'	32:1a:194:C:C6	2.54	0.43
32:1a:848:C:H2'	32:1a:849:C:C6	2.53	0.43
32:1a:967:5MC:H4'	40:1i:125:TYR:HE1	1.84	0.43
36:1e:33:VAL:HG13	36:1e:112:LEU:HD12	2.00	0.43
44:1m:56:LEU:O	44:1m:60:VAL:HG23	2.18	0.43
54:1y:23:A:H2'	54:1y:24:G:H8	1.82	0.43
1:2A:442:G:H4'	5:2F:46:ARG:HG3	1.99	0.43
1:2A:828:U:C5	1:2A:2247:A:H4'	2.53	0.43
1:2A:1359:A:C2	1:2A:1372:U:O4	2.72	0.43
1:2A:1463:C:H2'	1:2A:1464:C:H6	1.84	0.43
1:2A:2331:G:O2'	1:2A:2336:A:N1	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2406:U:C4	11:2P:72:PRO:HD2	2.54	0.43
1:2A:2880:C:O3'	13:2R:90:ARG:NH1	2.51	0.43
2:2B:83:G:N2	2:2B:94:C:O2	2.40	0.43
5:2F:31:HIS:NE2	5:2F:35:GLU:OE2	2.50	0.43
6:2G:97:ASP:O	6:2G:101:ILE:HG13	2.19	0.43
8:2I:73:GLU:HG3	8:2I:138:ILE:HG23	2.00	0.43
10:2O:19:ILE:HG22	10:2O:43:VAL:HA	2.01	0.43
11:2P:2:LYS:HE3	11:2P:2:LYS:HB2	1.75	0.43
16:2U:52:ARG:NH1	16:2U:55:ARG:HH22	2.16	0.43
22:20:82:ARG:HA	22:20:83:PRO:HD3	1.71	0.43
32:2a:298:A:H2'	32:2a:299:G:O4'	2.19	0.43
32:2a:1028:C:C2	32:2a:1033:G:N1	2.87	0.43
32:2a:1120:G:C6	32:2a:1121:U:C4	3.06	0.43
37:2f:62:TRP:CH2	37:2f:64:GLN:HB2	2.54	0.43
54:2w:13:C:N3	54:2w:22:G:O6	2.51	0.43
54:2y:66:U:C4	54:2y:67:C:C4	3.07	0.43
1:1A:865:G:H4'	1:1A:885:C:O3'	2.18	0.43
1:1A:2504:U:H2'	1:1A:2505:U:C6	2.54	0.43
1:1A:2856:G:H2'	1:1A:2857:U:O4'	2.18	0.43
1:1A:2879:G:H2'	1:1A:2880:C:O4'	2.18	0.43
10:1O:34:THR:OG1	10:1O:35:VAL:N	2.51	0.43
14:1S:106:ARG:HE	14:1S:112:PHE:C	2.26	0.43
32:1a:1456:G:N2	51:1t:51:GLU:OE2	2.50	0.43
33:1b:102:LEU:HB3	33:1b:180:LEU:HD12	2.01	0.43
34:1c:130:VAL:O	34:1c:134:ILE:HG13	2.19	0.43
35:1d:59:ARG:HD3	35:1d:59:ARG:HA	1.65	0.43
54:1w:69:G:N3	54:1w:69:G:H2'	2.34	0.43
1:2A:10:G:O2'	1:2A:2801(A):A:N7	2.37	0.43
1:2A:39:C:O2	5:2F:46:ARG:NH2	2.52	0.43
1:2A:829:A:N7	1:2A:2248:C:H5'	2.34	0.43
1:2A:1861:G:N2	1:2A:1881:C:O2	2.49	0.43
1:2A:2292:C:H2'	1:2A:2293:C:C6	2.54	0.43
1:2A:2846:G:H2'	1:2A:2847:U:O4'	2.19	0.43
9:2N:42:TRP:CD1	9:2N:48:MET:HE1	2.54	0.43
12:2Q:16:ARG:HG3	12:2Q:18:LYS:HG3	2.00	0.43
19:2X:5:TYR:CE2	24:22:30:ARG:HB2	2.54	0.43
25:23:6:VAL:HG22	25:23:56:VAL:HG13	2.01	0.43
27:25:8:LYS:O	27:25:9:LYS:HD2	2.19	0.43
32:2a:184:G:H2'	32:2a:185:A:H8	1.84	0.43
32:2a:688:G:H2'	32:2a:689:C:H6	1.83	0.43
32:2a:738:C:OP1	37:2f:2:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1220:G:O3'	50:2s:36:ARG:HD3	2.19	0.43
32:2a:1221:G:H4'	50:2s:53:ASN:O	2.19	0.43
44:2m:121:LYS:HE3	44:2m:121:LYS:HB3	1.87	0.43
48:2q:40:LYS:HD3	48:2q:42:TYR:OH	2.18	0.43
54:2y:18:G:N1	54:2y:55:PSU:C4	2.80	0.43
1:1A:63:A:O3'	19:1X:71:GLY:HA3	2.19	0.43
1:1A:2096:U:H2'	1:1A:2097:U:C6	2.53	0.43
2:1B:96:U:H2'	2:1B:97:G:C8	2.54	0.43
27:15:16:ARG:HG3	27:15:17:ASP:N	2.30	0.43
32:1a:993:G:H2'	32:1a:993:G:N3	2.34	0.43
32:1a:1530:G:H4'	32:1a:1530:G:OP1	2.19	0.43
45:1n:23:ARG:NH1	45:1n:30:ALA:HB2	2.33	0.43
1:2A:141:A:H8	1:2A:1408:C:HO2'	1.67	0.43
1:2A:1209:G:O2'	1:2A:1237:A:N1	2.45	0.43
1:2A:1808:U:H2'	1:2A:1809:A:O4'	2.19	0.43
1:2A:2769:C:H2'	1:2A:2770:G:O4'	2.19	0.43
1:2A:2774:C:H2'	1:2A:2775:A:O4'	2.18	0.43
1:2A:2831:G:OP1	1:2A:2834:G:H4'	2.19	0.43
1:2A:2864:G:OP1	15:2T:119:LYS:HD2	2.19	0.43
9:2N:20:GLY:HA2	9:2N:61:ARG:HG3	2.00	0.43
9:2N:96:GLU:CD	9:2N:96:GLU:H	2.26	0.43
11:2P:50:ARG:HD3	30:28:7:HIS:HD2	1.83	0.43
11:2P:121:LYS:HG2	11:2P:123:LEU:HG	2.01	0.43
12:2Q:19:GLY:O	12:2Q:98:LYS:HE3	2.18	0.43
12:2Q:56:ARG:HD2	12:2Q:56:ARG:HA	1.75	0.43
17:2V:27:ALA:O	17:2V:64:HIS:HE1	2.01	0.43
28:26:25:LYS:NZ	28:26:51:GLU:OE2	2.35	0.43
32:2a:438:G:H4'	35:2d:123:HIS:ND1	2.34	0.43
32:2a:640:A:N6	61:2a:3370:HOH:O	2.51	0.43
32:2a:942:G:H21	40:2i:124:GLN:NE2	2.10	0.43
35:2d:91:SER:HA	35:2d:94:LEU:HD12	2.01	0.43
35:2d:111:ALA:HB2	35:2d:120:LEU:HD12	2.01	0.43
36:2e:105:VAL:HB	36:2e:106:PRO:HD3	2.01	0.43
37:2f:60:PHE:HE2	49:2r:78:LEU:HD21	1.83	0.43
54:2w:8:4SU:HN3	54:2w:14:A:H62	1.66	0.43
1:1A:83:A:C5'	20:1Y:8:LYS:HG2	2.49	0.43
1:1A:142:G:H1'	19:1X:37:THR:HG21	2.00	0.43
1:1A:184:A:C8	1:1A:186:A:OP1	2.71	0.43
5:1F:152:GLU:OE1	5:1F:191:ARG:HD2	2.19	0.43
26:14:43:TYR:O	26:14:45:GLY:N	2.52	0.43
32:1a:996:A:N1	32:1a:1045:C:O2'	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1070:U:H2'	32:1a:1071:C:C6	2.54	0.43
32:1a:1183:A:O2'	32:1a:1184:G:OP1	2.34	0.43
32:1a:1411:C:N4	61:1a:2083:HOH:O	2.41	0.43
32:1a:1465:C:H2'	32:1a:1466:C:O4'	2.19	0.43
35:1d:88:VAL:O	35:1d:92:VAL:HG23	2.19	0.43
54:1w:24:G:C6	54:1w:25:C:C4	3.07	0.43
54:1y:38:A:H2'	54:1y:39:PSU:O4'	2.19	0.43
54:1y:51:U:H3	54:1y:63:G:H1	1.67	0.43
1:2A:8:A:H2'	1:2A:9:U:H6	1.84	0.43
1:2A:828:U:H4'	1:2A:831:G:N1	2.34	0.43
1:2A:880:G:H2'	1:2A:881:G:H8	1.84	0.43
1:2A:1607:C:H4'	1:2A:1608:A:O5'	2.19	0.43
1:2A:2461:C:H2'	1:2A:2462:U:C6	2.53	0.43
1:2A:2611:U:H6	1:2A:2611:U:H5'	1.84	0.43
3:2D:132:PRO:O	3:2D:136:ILE:HG13	2.19	0.43
7:2H:25:LYS:HE3	7:2H:27:LYS:NZ	2.33	0.43
10:2O:120:GLU:HG2	10:2O:122:LEU:HG	2.00	0.43
16:2U:107:ALA:O	16:2U:111:GLU:HG2	2.18	0.43
18:2W:12:ILE:O	18:2W:101:SER:OG	2.31	0.43
32:2a:193:C:H2'	32:2a:194:C:H6	1.84	0.43
32:2a:663:A:O3'	49:2r:64:ARG:NH2	2.51	0.43
32:2a:1204:A:OP1	45:2n:3:ARG:NH2	2.47	0.43
37:2f:50:TYR:CE2	49:2r:77:GLY:HA2	2.54	0.43
38:2g:16:LEU:HD21	40:2i:45:ALA:HB2	2.01	0.43
54:2y:18:G:N2	54:2y:55:PSU:HN3	1.99	0.43
1:1A:441:C:H4'	1:1A:1901:C:O2	2.18	0.42
13:1R:26:LYS:HE2	13:1R:70:LEU:O	2.18	0.42
15:1T:108:ARG:HG3	15:1T:109:GLU:N	2.34	0.42
26:14:16:CYS:SG	26:14:17:GLY:N	2.92	0.42
32:1a:995:C:H1'	45:1n:4:LYS:HE2	2.01	0.42
32:1a:1216:G:OP1	45:1n:2:ALA:HA	2.19	0.42
33:1b:207:ALA:O	33:1b:211:ILE:HG13	2.19	0.42
35:1d:18:LYS:NZ	35:1d:34:GLU:OE2	2.43	0.42
36:1e:72:GLN:O	36:1e:75:THR:HG22	2.17	0.42
37:1f:82:ARG:HB2	37:1f:85:VAL:HG23	2.01	0.42
43:1l:113:ARG:NH2	43:1l:116:SER:HB2	2.34	0.42
44:1m:23:TYR:HB3	44:1m:67:GLU:HA	2.01	0.42
47:1p:4:ILE:HG13	47:1p:64:ALA:HB1	2.00	0.42
51:1t:10:LEU:HA	51:1t:10:LEU:HD12	1.58	0.42
51:1t:56:MET:HE3	51:1t:85:MET:HG2	2.01	0.42
52:1u:5:ASP:O	52:1u:11:GLY:HA3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:1w:25:C:C4	54:1w:26:A:N7	2.87	0.42
1:2A:176:G:O2'	1:2A:177:G:H5'	2.19	0.42
1:2A:196:A:N3	1:2A:196:A:H2'	2.34	0.42
1:2A:971:C:H2'	1:2A:972:G:O4'	2.19	0.42
1:2A:2070:G:H2'	1:2A:2071:A:C8	2.54	0.42
1:2A:2135:A:C5	1:2A:2136:C:H5	2.36	0.42
2:2B:24:G:N7	2:2B:56:G:H2'	2.34	0.42
7:2H:9:ILE:HA	7:2H:10:PRO:HD2	1.91	0.42
9:2N:42:TRP:HD1	9:2N:48:MET:HE1	1.84	0.42
9:2N:58:ASP:OD1	9:2N:58:ASP:N	2.46	0.42
17:2V:76:LYS:HB2	17:2V:81:TYR:HB3	2.01	0.42
32:2a:76:C:N4	32:2a:93:G:H1	2.16	0.42
32:2a:1143:G:H2'	32:2a:1144:G:C8	2.54	0.42
45:2n:24:CYS:HB3	45:2n:28:GLY:H	1.84	0.42
1:1A:215:G:N2	1:1A:217:A:H62	2.15	0.42
1:1A:1688:A:H2'	1:1A:1689:G:O4'	2.19	0.42
1:1A:2158:C:N4	1:1A:2177:G:C6	2.80	0.42
32:1a:371:G:H2'	32:1a:372:C:O4'	2.19	0.42
32:1a:1112:C:H1'	34:1c:179:ARG:HH11	1.84	0.42
33:1b:60:ASP:O	33:1b:64:ARG:HG2	2.19	0.42
33:1b:178:ARG:HE	33:1b:178:ARG:HB3	1.61	0.42
33:1b:178:ARG:HH12	39:1h:68:ARG:NH2	2.17	0.42
36:1e:143:ARG:HH21	39:1h:77:GLU:CD	2.28	0.42
43:1l:54:LYS:HD2	43:1l:54:LYS:N	2.34	0.42
47:1p:50:LYS:HD2	47:1p:50:LYS:HA	1.89	0.42
48:1q:45:HIS:CD2	48:1q:47:PRO:HG3	2.54	0.42
54:1w:23:A:H3'	54:1w:24:G:H8	1.83	0.42
1:2A:243:U:O2'	1:2A:244:A:H5'	2.19	0.42
1:2A:902:C:H2'	1:2A:903:C:H6	1.84	0.42
1:2A:992:C:H2'	1:2A:993:G:H8	1.83	0.42
1:2A:1027:A:C2	1:2A:2488:A:H5'	2.54	0.42
1:2A:1847:A:H3'	1:2A:1848:A:H5'	2.00	0.42
33:2b:8:LYS:HD3	33:2b:51:LEU:HD13	2.01	0.42
36:2e:77:PRO:HG2	36:2e:142:LEU:HD22	2.01	0.42
42:2k:62:GLN:O	42:2k:66:LEU:HG	2.18	0.42
1:1A:27:G:N2	1:1A:537:G:H1'	2.35	0.42
1:1A:1973:U:O2	1:1A:1975:A:H8	2.02	0.42
1:1A:2138:G:N1	1:1A:2184:G:OP1	2.40	0.42
3:1D:166:GLN:HB2	3:1D:174:ILE:HG22	2.01	0.42
21:1Z:123:ASP:OD1	21:1Z:123:ASP:N	2.51	0.42
24:12:16:LEU:O	24:12:67:LYS:NZ	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:46:GLN:O	26:14:46:GLN:HG2	2.19	0.42
32:1a:553:A:H5''	43:1l:24:VAL:HG21	2.02	0.42
42:1k:38:ASN:HA	42:1k:39:PRO:HD3	1.90	0.42
45:1n:33:VAL:HA	45:1n:40:CYS:HA	2.01	0.42
51:1t:37:SER:O	51:1t:41:ILE:HG13	2.20	0.42
1:2A:2525:G:C2	1:2A:2539:C:N3	2.88	0.42
1:2A:2582:G:N2	1:2A:2583:G:H1'	2.33	0.42
12:2Q:141:GLN:NE2	21:2Z:74:VAL:O	2.52	0.42
17:2V:85:LYS:HB3	17:2V:85:LYS:HE3	1.85	0.42
18:2W:80:PRO:O	18:2W:100:THR:HB	2.20	0.42
32:2a:359:U:H2'	32:2a:360:A:C8	2.54	0.42
32:2a:1089:G:H1	32:2a:1096:C:N4	2.16	0.42
34:2c:124:ILE:HD13	34:2c:196:LEU:HD12	2.00	0.42
35:2d:112:VAL:HG13	35:2d:116:GLN:NE2	2.34	0.42
1:1A:310:C:H2'	1:1A:311:C:H6	1.84	0.42
1:1A:596:G:O2'	1:1A:597:C:H3'	2.20	0.42
1:1A:1385:G:H5''	19:1X:16:LYS:HD3	2.01	0.42
1:1A:2343:G:O2'	22:10:43:THR:HG22	2.19	0.42
3:1D:37:LEU:HD22	3:1D:87:ASN:ND2	2.35	0.42
6:1G:106:LEU:HA	6:1G:110:ALA:HB3	2.01	0.42
32:1a:181:G:O2'	61:1a:2031:HOH:O	2.21	0.42
32:1a:1402:4OC:HM43	32:1a:1500:A:N6	2.35	0.42
33:1b:51:LEU:HD23	33:1b:201:ILE:HD12	2.00	0.42
36:1e:74:GLY:HA3	36:1e:116:THR:HG22	2.02	0.42
38:1g:78:ARG:HD2	38:1g:156:TRP:CE3	2.55	0.42
44:1m:3:ARG:HG3	44:1m:4:ILE:HG22	2.01	0.42
55:1x:25:C:H2'	55:1x:26:G:O4'	2.20	0.42
54:1y:51:U:H2'	54:1y:52:G:H8	1.85	0.42
1:2A:315:G:H2'	1:2A:316:C:C6	2.55	0.42
1:2A:643:A:N1	1:2A:2369:A:O2'	2.49	0.42
1:2A:768:G:O2'	1:2A:1379:A:N1	2.52	0.42
1:2A:911:A:H2'	12:2Q:9:TYR:OH	2.18	0.42
1:2A:1116:C:H2'	1:2A:1117:G:H8	1.83	0.42
1:2A:1604:C:O2'	1:2A:1610:A:N1	2.47	0.42
2:2B:55:U:O2'	6:2G:27:ASN:ND2	2.45	0.42
6:2G:70:VAL:HA	6:2G:90:LEU:HD23	2.01	0.42
7:2H:137:ASP:HB3	7:2H:140:LYS:CB	2.49	0.42
32:2a:741:G:H2'	32:2a:742:G:O4'	2.18	0.42
32:2a:742:G:P	46:2o:35:ARG:HH22	2.42	0.42
32:2a:1118:C:H1'	32:2a:1179:A:C4	2.55	0.42
32:2a:1168:A:H2'	32:2a:1169:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:124:SER:HB3	33:2b:125:PRO:HD3	1.99	0.42
33:2b:230:VAL:HG22	33:2b:231:GLU:H	1.83	0.42
1:1A:83:A:H5'	20:1Y:8:LYS:HG2	2.00	0.42
1:1A:217:A:C8	1:1A:218:A:H5'	2.55	0.42
1:1A:572:A:H1'	1:1A:573:G:OP1	2.19	0.42
1:1A:595:A:OP2	17:1V:78:LYS:NZ	2.52	0.42
1:1A:831:A:C6	3:1D:229:VAL:HG11	2.54	0.42
1:1A:999:G:O2'	1:1A:2286:A:N1	2.50	0.42
1:1A:1210:G:H2'	1:1A:1211:U:C6	2.54	0.42
1:1A:1412:A:H2'	1:1A:1413:A:O4'	2.19	0.42
1:1A:1874:C:H2'	1:1A:1875:C:H6	1.83	0.42
6:1G:79:ASN:H	6:1G:79:ASN:ND2	2.17	0.42
20:1Y:65:ALA:HA	20:1Y:66:PRO:HD3	1.89	0.42
26:14:28:LYS:HA	26:14:29:PRO:HD3	1.86	0.42
29:17:12:ARG:NH2	29:17:44:PRO:HB3	2.34	0.42
32:1a:374:A:C6	32:1a:375:U:C4	3.06	0.42
32:1a:748:C:H4'	32:1a:749:C:O5'	2.20	0.42
32:1a:767:A:H2'	32:1a:768:A:O4'	2.19	0.42
32:1a:1039:C:H2'	32:1a:1040:U:C6	2.52	0.42
32:1a:1226:C:H4'	50:1s:80:TYR:CZ	2.55	0.42
1:2A:276:A:H5''	1:2A:277:C:H5'	2.01	0.42
1:2A:859:G:N2	1:2A:917:A:OP2	2.48	0.42
1:2A:1188:U:H4'	17:2V:79:VAL:HG22	2.02	0.42
1:2A:1354:A:H2'	1:2A:1355:G:O4'	2.19	0.42
1:2A:2070:G:H2'	1:2A:2071:A:H8	1.85	0.42
1:2A:2379:G:H2'	1:2A:2380:C:C6	2.55	0.42
1:2A:2649:U:H2'	1:2A:2650:U:C6	2.54	0.42
7:2H:11:VAL:HG21	7:2H:50:VAL:HG23	2.01	0.42
14:2S:99:LYS:HE2	14:2S:103:GLU:OE2	2.19	0.42
32:2a:115:G:H4'	32:2a:116:A:O5'	2.19	0.42
32:2a:428:G:OP2	35:2d:10:ARG:NH1	2.51	0.42
32:2a:583:A:H2'	32:2a:584:G:O4'	2.20	0.42
32:2a:982:U:O2	32:2a:1222:G:N1	2.45	0.42
32:2a:1202:G:O4'	45:2n:29:ARG:NH1	2.52	0.42
32:2a:1217:C:H2'	32:2a:1218:C:O4'	2.19	0.42
38:2g:59:LEU:O	38:2g:63:LYS:HG3	2.19	0.42
41:2j:23:ILE:HD13	41:2j:23:ILE:HA	1.90	0.42
43:2l:48:PRO:CB	53:2v:21:C:H4'	2.49	0.42
47:2p:28:ARG:HG2	47:2p:29:ASP:OD1	2.19	0.42
54:2w:18:G:O2'	54:2w:19:G:OP2	2.32	0.42
55:2x:2:G:H1	55:2x:71:C:N4	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:217:A:H8	1:1A:218:A:H5'	1.85	0.42
1:1A:593:G:H2'	1:1A:2052:A:C5	2.55	0.42
1:1A:602:G:H2'	1:1A:603:C:C6	2.55	0.42
1:1A:1660:A:P	1:1A:1660:A:H8	2.42	0.42
1:1A:1766:G:H2'	1:1A:1767:A:H2'	2.01	0.42
1:1A:1896:G:OP1	61:1A:4382:HOH:O	2.22	0.42
1:1A:2327:G:H2'	1:1A:2328:C:C6	2.55	0.42
13:1R:44:LEU:HD23	13:1R:44:LEU:HA	1.82	0.42
32:1a:262:A:C6	32:1a:263:A:C6	3.07	0.42
32:1a:973:G:OP1	41:1j:57:LYS:NZ	2.36	0.42
32:1a:1316:G:N1	32:1a:1319:A:OP2	2.47	0.42
32:1a:1429:C:H2'	32:1a:1430:C:H6	1.84	0.42
33:1b:16:HIS:CD2	33:1b:204:ASN:H	2.38	0.42
33:1b:68:ILE:HG12	33:1b:161:ALA:HB3	2.00	0.42
33:1b:166:ASP:HB3	33:1b:169:LYS:HB3	2.02	0.42
40:1i:96:LEU:HD23	40:1i:96:LEU:HA	1.92	0.42
1:2A:1115:G:H2'	1:2A:1116:C:O4'	2.20	0.42
1:2A:1394:U:C4	1:2A:1395:A:C5	3.07	0.42
1:2A:2182:G:C6	1:2A:2183:C:C4	3.08	0.42
1:2A:2393:A:H5''	11:2P:63:PRO:HB3	2.00	0.42
4:2E:135:HIS:CD2	4:2E:135:HIS:H	2.37	0.42
7:2H:126:PRO:HB2	7:2H:127:GLU:H	1.61	0.42
9:2N:67:LEU:O	9:2N:88:GLU:HG3	2.20	0.42
12:2Q:29:PHE:HB2	12:2Q:105:GLU:OE1	2.19	0.42
32:2a:119:A:H4'	32:2a:120:A:C8	2.54	0.42
32:2a:892:A:O2'	32:2a:1415:G:H4'	2.20	0.42
32:2a:1026:G:N2	32:2a:1027:C:O4'	2.51	0.42
32:2a:1084:G:C5	32:2a:1085:U:C4	3.08	0.42
34:2c:6:HIS:HD2	34:2c:8:ILE:H	1.66	0.42
42:2k:34:ASP:OD1	42:2k:37:GLY:N	2.53	0.42
46:2o:5:LYS:O	46:2o:9:GLN:HG2	2.19	0.42
48:2q:29:HIS:CG	48:2q:30:PRO:HD2	2.55	0.42
50:2s:66:MET:HB2	50:2s:74:PHE:CZ	2.55	0.42
1:1A:1469:G:OP1	1:1A:1538:G:O2'	2.38	0.42
1:1A:1550:C:H2'	1:1A:1551:C:C6	2.54	0.42
1:1A:1730:C:H2'	1:1A:1731:C:C6	2.54	0.42
3:1D:264:LYS:HA	3:1D:265:PRO:HD3	1.94	0.42
7:1H:137:ASP:O	7:1H:141:VAL:HG23	2.19	0.42
14:1S:26:LEU:HB2	14:1S:85:VAL:CG1	2.50	0.42
33:1b:80:ILE:HD11	33:1b:212:GLN:HA	2.02	0.42
54:1y:15:G:H22	54:1y:48:C:H42	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:108:U:C2	1:2A:109:G:C8	3.07	0.42
1:2A:271(R):G:OP1	23:21:76:ARG:NH1	2.53	0.42
1:2A:593:G:H4'	30:28:63:PRO:HB3	2.00	0.42
1:2A:839:U:H2'	1:2A:840:C:H6	1.84	0.42
1:2A:984:A:H5''	1:2A:985:C:H5	1.84	0.42
1:2A:1121:C:H2'	1:2A:1122:G:O4'	2.20	0.42
1:2A:1193:G:H2'	1:2A:1194:A:H8	1.85	0.42
1:2A:1474:C:H42	1:2A:1517:G:H1	1.67	0.42
1:2A:1587:A:H2'	1:2A:1588:C:C6	2.55	0.42
1:2A:2155:G:C5	1:2A:2156:G:H1'	2.54	0.42
1:2A:2628:C:H1'	1:2A:2781:A:H2'	2.02	0.42
1:2A:2854:G:C6	1:2A:2855:C:C4	3.08	0.42
3:2D:166:GLN:NE2	32:2a:713:G:OP1	2.43	0.42
5:2F:120:GLU:OE2	5:2F:122:LYS:HG3	2.19	0.42
16:2U:34:LYS:HD3	16:2U:34:LYS:HA	1.73	0.42
32:2a:1069:C:O2'	32:2a:1192:C:H1'	2.19	0.42
32:2a:1161:C:H2'	32:2a:1162:C:C6	2.54	0.42
32:2a:1225:A:OP1	44:2m:103:THR:OG1	2.37	0.42
33:2b:94:ASN:HB3	33:2b:95:GLN:HE21	1.85	0.42
37:2f:45:LEU:HD12	37:2f:59:TYR:HD1	1.85	0.42
1:1A:417:A:H4'	1:1A:418:G:H5'	2.02	0.42
1:1A:821:A:H2'	1:1A:821:A:N3	2.34	0.42
1:1A:1233:U:H4'	17:1V:79:VAL:HG22	2.01	0.42
1:1A:1362:U:H2'	1:1A:1363:A:C8	2.54	0.42
1:1A:1554:A:H5'	1:1A:1556:A:N7	2.33	0.42
1:1A:1974:A:C6	1:1A:1975:A:N1	2.87	0.42
26:14:16:CYS:HA	26:14:33:VAL:O	2.20	0.42
28:16:40:CYS:HA	28:16:41:PRO:HD3	1.84	0.42
32:1a:32:A:OP1	32:1a:398:C:H1'	2.20	0.42
32:1a:555:C:H2'	32:1a:556:C:C6	2.55	0.42
32:1a:1125:U:H4'	41:1j:5:ARG:HH12	1.84	0.42
32:1a:1198:G:H5''	61:1a:2019:HOH:O	2.19	0.42
34:1c:87:LEU:O	34:1c:91:LEU:N	2.51	0.42
41:1j:81:THR:O	41:1j:84:GLN:N	2.52	0.42
1:2A:541:C:H2'	1:2A:542:C:H6	1.84	0.42
1:2A:760:G:H2'	1:2A:761:A:O4'	2.20	0.42
1:2A:811:U:H2'	11:2P:21:ARG:HA	2.00	0.42
1:2A:973:A:H8	1:2A:973:A:OP1	2.02	0.42
1:2A:1190:G:O2'	1:2A:1191:G:H5'	2.20	0.42
1:2A:1257:C:H4'	5:2F:83:PHE:CD1	2.55	0.42
1:2A:1364:G:N7	23:21:3:LYS:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2048:G:OP1	61:2A:4073:HOH:O	2.22	0.42
4:2E:9:VAL:HG22	4:2E:25:VAL:HB	2.02	0.42
32:2a:108:G:C6	51:2t:15:ARG:HG2	2.54	0.42
32:2a:187:C:H2'	32:2a:188:C:H6	1.84	0.42
32:2a:890:G:O2'	32:2a:906:G:O6	2.33	0.42
32:2a:1271:G:N2	32:2a:1272:G:N7	2.68	0.42
32:2a:1356:G:H2'	32:2a:1357:A:C8	2.55	0.42
35:2d:11:LEU:HD23	35:2d:66:ARG:HB3	2.02	0.42
40:2i:65:VAL:HG21	40:2i:73:GLN:HB3	2.02	0.42
41:2j:9:ARG:NH1	41:2j:69:ASN:OD1	2.53	0.42
44:2m:40:ASN:HA	44:2m:41:PRO:HD2	1.84	0.42
1:1A:1067:A:H3'	1:1A:1067:A:N3	2.35	0.42
1:1A:1685:C:O3'	1:1A:2721:G:N2	2.53	0.42
1:1A:1698:G:N2	1:1A:2029:C:C2	2.88	0.42
1:1A:2274:U:H4'	1:1A:2340:A:C2	2.55	0.42
1:1A:2846:U:H2'	1:1A:2847:G:C8	2.55	0.42
2:1B:78:A:C2	2:1B:100:A:C4	3.07	0.42
3:1D:148:GLU:HB2	3:1D:151:LYS:HD2	2.01	0.42
8:1I:40:THR:O	8:1I:44:LEU:HB2	2.20	0.42
13:1R:33:ARG:HA	13:1R:114:VAL:O	2.19	0.42
13:1R:38:VAL:HG12	13:1R:42:LYS:HE3	2.01	0.42
21:1Z:158:PRO:HA	21:1Z:159:PRO:HD3	1.84	0.42
32:1a:97:G:H2'	32:1a:98:G:O4'	2.20	0.42
32:1a:293:G:H5'	32:1a:610:G:N2	2.35	0.42
32:1a:1101:A:H4'	32:1a:1102:A:O5'	2.20	0.42
40:1i:16:ARG:HD3	40:1i:64:THR:HG21	2.02	0.42
54:1y:6:G:C6	54:1y:7:A:C6	3.08	0.42
1:2A:414:C:H2'	1:2A:415:A:C8	2.55	0.42
1:2A:802:A:C5	1:2A:803:U:C4	3.08	0.42
1:2A:1027:A:N6	1:2A:1126:A:C4	2.87	0.42
1:2A:1490:A:O2'	3:2D:99:ASP:OD1	2.38	0.42
1:2A:1857:G:C6	1:2A:1858:G:N1	2.88	0.42
1:2A:1919:A:O3'	32:2a:1517:G:H1'	2.20	0.42
1:2A:2408:U:H2'	1:2A:2409:G:C8	2.54	0.42
6:2G:41:GLN:HG2	6:2G:154:GLY:O	2.19	0.42
32:2a:80:G:H8	32:2a:80:G:OP2	2.03	0.42
32:2a:298:A:C6	32:2a:299:G:C2	3.08	0.42
32:2a:942:G:C2	32:2a:1342:C:C2	3.08	0.42
32:2a:1074:G:C6	32:2a:1075:C:C4	3.08	0.42
32:2a:1359:C:OP2	45:2n:35:ARG:NH1	2.53	0.42
54:2y:36:A:H2'	54:2y:37:MIA:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:233:A:C2	1:1A:244:A:C4	3.08	0.42
1:1A:593:G:H2'	1:1A:2052:A:N7	2.35	0.42
1:1A:1730:C:H2'	1:1A:1731:C:H6	1.84	0.42
1:1A:2126:G:H2'	1:1A:2127:C:C6	2.55	0.42
61:1A:5294:HOH:O	55:1x:76:A:H1'	2.18	0.42
2:1B:31:C:H4'	6:1G:29:TRP:CZ2	2.55	0.42
4:1E:52:LEU:HA	4:1E:53:PRO:HD3	1.91	0.42
9:1N:70:LYS:HD3	9:1N:87:LEU:HD12	2.02	0.42
10:1O:104:ARG:NH2	15:1T:36:GLU:OE2	2.45	0.42
10:1O:120:GLU:HG2	10:1O:122:LEU:HG	2.01	0.42
20:1Y:92:ASN:HB3	20:1Y:94:LYS:N	2.20	0.42
30:18:31:HIS:O	30:18:32:LEU:HB2	2.19	0.42
32:1a:189(C):C:H2'	32:1a:189(D):C:O4'	2.19	0.42
43:1l:60:LEU:HD21	43:1l:85:ILE:HD11	2.01	0.42
1:2A:224:G:C2	1:2A:225:A:C4	3.08	0.42
1:2A:244:A:C2	1:2A:255:A:C4	3.08	0.42
1:2A:744:G:OP1	4:2E:132:HIS:ND1	2.52	0.42
1:2A:921:G:H2'	1:2A:922:U:C6	2.55	0.42
1:2A:975(A):G:C2	1:2A:990:A:C8	3.07	0.42
1:2A:1356:G:OP2	61:2A:4067:HOH:O	2.21	0.42
1:2A:2354:G:H21	22:20:36:ILE:HD11	1.85	0.42
1:2A:2378:A:O5'	1:2A:2378:A:H8	2.02	0.42
2:2B:15:A:OP2	2:2B:69:G:N2	2.53	0.42
6:2G:124:SER:HB2	6:2G:131:TYR:CE1	2.55	0.42
7:2H:164:TYR:HB2	7:2H:167:GLU:HB2	2.00	0.42
8:2I:38:LEU:HB2	8:2I:40:THR:HG23	2.01	0.42
32:2a:8:A:N6	35:2d:209:ARG:HB2	2.35	0.42
33:2b:24:TRP:CD1	33:2b:24:TRP:H	2.38	0.42
37:2f:37:VAL:HA	37:2f:65:VAL:HG12	2.01	0.42
38:2g:137:LYS:O	38:2g:141:VAL:HG23	2.20	0.42
50:2s:48:THR:HG22	50:2s:61:TYR:HA	2.01	0.42
1:1A:152:G:H2'	1:1A:153:C:C6	2.54	0.41
1:1A:1091:A:O2'	1:1A:1093:G:C4	2.71	0.41
1:1A:1636:U:H2'	1:1A:1637:G:C8	2.55	0.41
1:1A:2234:G:OP2	61:1A:4365:HOH:O	2.20	0.41
3:1D:12:SER:HB3	3:1D:208:LYS:HB3	2.02	0.41
8:1I:109:ILE:HG13	8:1I:130:TYR:OH	2.20	0.41
21:1Z:14:LYS:HA	21:1Z:15:PRO:HD3	1.89	0.41
32:1a:134:A:N6	47:1p:25:ARG:HH12	2.15	0.41
32:1a:163:C:H2'	32:1a:164:U:H6	1.83	0.41
32:1a:299:G:C6	32:1a:300:A:C6	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:890:G:O2'	32:1a:906:G:O6	2.32	0.41
32:1a:1037:C:H2'	32:1a:1038:C:C6	2.51	0.41
35:1d:5:ILE:HA	35:1d:115:ARG:HH22	1.83	0.41
41:1j:40:LEU:HB2	41:1j:69:ASN:CB	2.50	0.41
1:2A:274:G:H1'	1:2A:363:G:N2	2.35	0.41
1:2A:721:C:H2'	1:2A:722:A:C8	2.55	0.41
1:2A:912:C:OP1	12:2Q:8:LYS:NZ	2.49	0.41
1:2A:2406:U:H6	1:2A:2406:U:H2'	1.70	0.41
1:2A:2710:C:O2'	61:2A:4066:HOH:O	2.20	0.41
1:2A:2886:G:H2'	1:2A:2887:U:H6	1.85	0.41
2:2B:31:C:H4'	6:2G:29:TRP:CZ2	2.55	0.41
12:2Q:63:LYS:HE2	12:2Q:65:PHE:HE1	1.85	0.41
21:2Z:126:VAL:HG13	21:2Z:161:VAL:HG23	2.02	0.41
32:2a:735:C:H2'	32:2a:736:C:C6	2.55	0.41
32:2a:1036:G:H5''	32:2a:1037:C:OP2	2.20	0.41
32:2a:1058:G:H2'	32:2a:1059:C:O4'	2.20	0.41
32:2a:1149:C:OP1	40:2i:14:VAL:HG11	2.20	0.41
32:2a:1289:A:OP1	52:2u:9:ARG:NH2	2.50	0.41
35:2d:182:LYS:HB2	35:2d:182:LYS:HE3	1.76	0.41
41:2j:8:LEU:CD1	41:2j:70:ARG:HB2	2.50	0.41
50:2s:31:ILE:O	50:2s:49:ILE:HG13	2.20	0.41
54:2w:19:G:OP2	54:2w:19:G:C8	2.73	0.41
55:2x:17:C:H3'	55:2x:17:C:O2	2.20	0.41
55:2x:19:G:C4	55:2x:57:A:C2	3.08	0.41
1:1A:212:A:N1	1:1A:434:G:O2'	2.48	0.41
1:1A:1271:G:OP1	17:1V:69:LYS:NZ	2.32	0.41
1:1A:2222:C:O2'	1:1A:2239:A:N1	2.43	0.41
1:1A:2339:A:H2'	1:1A:2340:A:C8	2.55	0.41
8:1I:75:LEU:HD13	8:1I:105:HIS:NE2	2.35	0.41
32:1a:79:G:N1	32:1a:90:U:C2	2.87	0.41
32:1a:109:A:C6	32:1a:326:G:C6	3.09	0.41
32:1a:675:A:H1'	42:1k:116:HIS:CD2	2.54	0.41
32:1a:864:A:H2'	32:1a:865:A:C8	2.55	0.41
32:1a:1166:G:N2	32:1a:1170:A:OP2	2.54	0.41
54:1w:23:A:C6	54:1w:24:G:C6	3.08	0.41
1:2A:271(V):G:H2'	1:2A:271(W):G:O4'	2.20	0.41
1:2A:415:A:H2'	1:2A:416:C:O4'	2.20	0.41
1:2A:972:G:OP2	1:2A:973:A:O2'	2.33	0.41
1:2A:1448:G:H4'	1:2A:1542:A:OP1	2.21	0.41
1:2A:1486:A:H2'	1:2A:1487:G:C8	2.54	0.41
1:2A:1798:U:H5'	3:2D:259:THR:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2203:U:H2'	1:2A:2205:C:C6	2.55	0.41
1:2A:2747:G:O6	1:2A:2755:C:H5''	2.20	0.41
3:2D:228:PRO:HD3	3:2D:235:GLY:CA	2.51	0.41
4:2E:9:VAL:HG13	4:2E:25:VAL:O	2.19	0.41
7:2H:20:ALA:HB3	7:2H:23:ARG:HG3	2.01	0.41
17:2V:16:PRO:HD3	17:2V:99:ILE:HD11	2.02	0.41
21:2Z:125:LEU:HB3	21:2Z:165:VAL:HG13	2.01	0.41
32:2a:7:G:O2'	36:2e:120:THR:O	2.33	0.41
32:2a:457:C:H2'	32:2a:458:C:C6	2.54	0.41
32:2a:626:U:C2	32:2a:627:G:C8	3.09	0.41
33:2b:100:GLY:HA2	33:2b:103:THR:OG1	2.20	0.41
33:2b:213:LEU:HD22	33:2b:214:ILE:HD13	2.01	0.41
44:2m:84:ILE:HG13	44:2m:86:CYS:H	1.85	0.41
50:2s:58:VAL:HA	50:2s:59:PRO:HD2	1.93	0.41
52:2u:5:ASP:O	52:2u:11:GLY:HA3	2.19	0.41
54:2w:4:C:C2	54:2w:69:G:N2	2.88	0.41
1:1A:141:C:H2'	1:1A:142:G:O4'	2.20	0.41
1:1A:1112:U:H2'	1:1A:1114:G:OP2	2.20	0.41
1:1A:1222:A:H2'	1:1A:1222:A:N3	2.35	0.41
1:1A:2094:G:H2'	1:1A:2095:C:O4'	2.20	0.41
2:1B:79:C:H2'	2:1B:80:U:O4'	2.19	0.41
5:1F:184:TYR:O	5:1F:188:ARG:HG3	2.21	0.41
21:1Z:26:GLY:HA3	21:1Z:86:VAL:HG23	2.01	0.41
26:14:61:ARG:HH12	50:1s:9:VAL:HG21	1.85	0.41
32:1a:159:G:O2'	32:1a:161:A:N7	2.51	0.41
32:1a:951:G:O2'	32:1a:970:C:O2'	2.37	0.41
32:1a:971:G:N1	32:1a:1363(A):A:OP2	2.45	0.41
32:1a:1108:G:H5'	34:1c:176:HIS:CD2	2.55	0.41
32:1a:1168:A:H8	32:1a:1168:A:OP1	2.03	0.41
44:1m:108:ARG:NH1	44:1m:111:LYS:HE2	2.35	0.41
46:1o:36:ILE:HG23	46:1o:56:LEU:HD11	2.02	0.41
51:1t:9:ASN:O	51:1t:10:LEU:HB2	2.20	0.41
51:1t:47:GLY:N	51:1t:48:LYS:HB2	2.36	0.41
1:2A:819:A:C4	1:2A:1189:A:C2	3.08	0.41
1:2A:947:G:OP2	61:2A:4069:HOH:O	2.21	0.41
1:2A:1814:G:H4'	3:2D:51:VAL:HG21	2.03	0.41
3:2D:66:ASP:HB3	3:2D:105:ILE:HG22	2.03	0.41
20:2Y:77:PRO:HD2	20:2Y:106:LEU:HD23	2.02	0.41
21:2Z:73:GLN:HB3	21:2Z:87:ASP:HB2	2.02	0.41
32:2a:179:A:H2'	32:2a:180:U:C6	2.55	0.41
32:2a:302:G:N3	32:2a:556:C:H4'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:604:G:H2'	32:2a:605:U:O4'	2.20	0.41
32:2a:954:G:H2'	32:2a:955:U:O4'	2.20	0.41
42:2k:38:ASN:HA	42:2k:39:PRO:HD3	1.85	0.41
43:2l:27:LEU:HB3	43:2l:30:ALA:O	2.20	0.41
1:1A:327:U:H2'	1:1A:328:G:H8	1.85	0.41
1:1A:645:G:N3	1:1A:645:G:H5'	2.35	0.41
1:1A:1109:G:N2	1:1A:1122:C:O2'	2.53	0.41
1:1A:1405:A:C2	1:1A:1418:U:O4	2.71	0.41
1:1A:1660:A:C2	18:1W:93:ALA:HB2	2.54	0.41
1:1A:1874:C:H5'	3:1D:253:GLN:OE1	2.20	0.41
2:1B:4:C:H2'	2:1B:5:C:O4'	2.20	0.41
5:1F:107:LYS:HE3	5:1F:206:ILE:C	2.45	0.41
32:1a:1513:A:H2'	32:1a:1514:C:C6	2.55	0.41
35:1d:194:LEU:HG	35:1d:196:LEU:HD12	2.00	0.41
44:1m:121:LYS:HE2	44:1m:121:LYS:HB2	1.91	0.41
47:1p:51:VAL:HG12	47:1p:53:VAL:N	2.27	0.41
1:2A:128:C:H2'	1:2A:129:C:C6	2.55	0.41
1:2A:407:G:H2'	1:2A:408:G:H8	1.85	0.41
1:2A:729:G:C6	3:2D:208:LYS:HB2	2.55	0.41
1:2A:974:G:C4	1:2A:989:G:C2	3.08	0.41
1:2A:1263:U:H2'	1:2A:1264:G:C8	2.55	0.41
1:2A:1379:A:H4'	1:2A:1380:G:OP2	2.19	0.41
1:2A:1878:G:C6	1:2A:1879:C:C4	3.08	0.41
1:2A:1991:U:H2'	1:2A:1992:G:H5''	2.02	0.41
1:2A:2370:G:C6	1:2A:2371:G:C6	3.09	0.41
1:2A:2508:G:HO2'	1:2A:2554:U:HO2'	1.65	0.41
6:2G:43:LEU:HB3	6:2G:44:GLY:H	1.46	0.41
8:2I:140:LEU:HD22	8:2I:142:VAL:HG22	2.02	0.41
9:2N:67:LEU:HB3	9:2N:88:GLU:HG3	2.02	0.41
23:21:53:VAL:HG22	23:21:74:VAL:HG13	2.02	0.41
32:2a:1040:U:H2'	32:2a:1041:A:O4'	2.21	0.41
32:2a:1151:A:O2'	32:2a:1152:A:O5'	2.37	0.41
40:2i:8:GLY:O	40:2i:15:ALA:N	2.41	0.41
44:2m:64:TRP:HB2	44:2m:66:LEU:HD21	2.02	0.41
1:1A:296:U:H2'	1:1A:297:C:O4'	2.20	0.41
1:1A:310:C:H2'	1:1A:311:C:C6	2.56	0.41
1:1A:327:U:H2'	1:1A:328:G:C8	2.55	0.41
1:1A:2087:C:H4'	1:1A:2263:OMG:HM22	2.03	0.41
3:1D:33:LEU:HD23	3:1D:33:LEU:HA	1.92	0.41
24:12:53:LEU:HD23	24:12:53:LEU:HA	1.83	0.41
47:1p:15:PRO:O	47:1p:16:HIS:ND1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:93:G:H2'	1:2A:94:C:C6	2.55	0.41
1:2A:500:G:N1	1:2A:503:A:OP2	2.53	0.41
1:2A:947:G:N2	1:2A:971:C:C2	2.88	0.41
1:2A:2097:C:H2'	1:2A:2098:U:O4'	2.21	0.41
2:2B:33:G:H5'	6:2G:2:PRO:HD3	2.02	0.41
4:2E:170:LEU:HB3	4:2E:184:VAL:CG2	2.51	0.41
6:2G:3:LEU:HD22	26:24:25:TYR:CZ	2.55	0.41
21:2Z:145:GLU:HB3	21:2Z:148:ASP:HB2	2.02	0.41
26:24:46:GLN:HG2	26:24:48:ARG:HG2	2.02	0.41
32:2a:524:G:H2'	32:2a:525:C:C6	2.56	0.41
32:2a:944:G:OP1	61:2a:3318:HOH:O	2.21	0.41
32:2a:1077:G:N1	32:2a:1080:A:OP2	2.53	0.41
32:2a:1228:C:P	44:2m:108:ARG:HH22	2.43	0.41
32:2a:1273:G:C6	32:2a:1274:G:C4	3.09	0.41
32:2a:1305:G:O2'	32:2a:1331:G:N2	2.54	0.41
33:2b:162:ILE:O	33:2b:185:ILE:HG12	2.20	0.41
33:2b:204:ASN:OD1	33:2b:206:ASP:N	2.44	0.41
35:2d:22:LYS:HB2	35:2d:26:CYS:SG	2.60	0.41
38:2g:22:LEU:HG	38:2g:62:PHE:CE2	2.56	0.41
38:2g:79:ARG:CG	38:2g:80:VAL:H	2.32	0.41
43:2l:60:LEU:HD21	43:2l:85:ILE:HD11	2.02	0.41
44:2m:91:ARG:NE	44:2m:97:PRO:O	2.50	0.41
49:2r:47:THR:HG23	49:2r:49:LYS:HG3	2.02	0.41
1:1A:41:C:H2'	1:1A:42:G:O4'	2.21	0.41
1:1A:207:A:N7	61:1A:4506:HOH:O	2.37	0.41
1:1A:275:C:H2'	1:1A:276:C:C6	2.56	0.41
1:1A:830:A:O2'	1:1A:832:G:OP1	2.17	0.41
1:1A:1715:A:H4'	1:1A:1716:A:O5'	2.20	0.41
1:1A:2172:U:C2	1:1A:2173:G:N7	2.89	0.41
1:1A:2346:G:O6	22:10:74:ARG:NH1	2.53	0.41
1:1A:2579:G:H2'	1:1A:2580:C:H6	1.86	0.41
1:1A:2651:A:H2'	1:1A:2652:G:O4'	2.20	0.41
1:1A:2711:C:H2'	1:1A:2712:C:O4'	2.21	0.41
1:1A:2797:C:H1'	4:1E:37:ARG:NH1	2.34	0.41
1:1A:2858:G:C8	15:1T:97:ALA:HB2	2.56	0.41
6:1G:28:VAL:O	6:1G:31:VAL:HG12	2.21	0.41
7:1H:121:ILE:HD13	7:1H:121:ILE:HA	1.91	0.41
16:1U:8:VAL:HG23	16:1U:11:ARG:NH2	2.35	0.41
16:1U:8:VAL:HG23	16:1U:11:ARG:HH21	1.86	0.41
26:14:60:GLN:O	26:14:61:ARG:C	2.63	0.41
32:1a:35:G:O2'	43:1l:118:SER:O	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:219:C:H2'	32:1a:220:G:O4'	2.20	0.41
32:1a:449:C:O2	47:1p:42:ARG:HD2	2.21	0.41
32:1a:755:G:OP2	46:1o:65:ARG:HD2	2.20	0.41
32:1a:958:A:C6	32:1a:959:A:N1	2.89	0.41
1:2A:601:C:O2	1:2A:605:C:H4'	2.20	0.41
1:2A:747:U:O2	1:2A:2014:A:H1'	2.20	0.41
1:2A:947:G:H2'	1:2A:948:G:C8	2.55	0.41
1:2A:1639:U:C2'	1:2A:1640:C:H5''	2.51	0.41
1:2A:1831:G:H1'	61:2A:4701:HOH:O	2.19	0.41
1:2A:2100:G:C6	1:2A:2190:G:C6	3.09	0.41
1:2A:2109:U:H3	1:2A:2180:U:H3	1.67	0.41
1:2A:2134:A:H2'	1:2A:2134:A:N3	2.35	0.41
6:2G:146:TYR:O	6:2G:149:VAL:HG12	2.20	0.41
8:2I:117:GLU:HG3	8:2I:118:LYS:H	1.84	0.41
9:2N:138:LEU:HD23	9:2N:138:LEU:HA	1.80	0.41
32:2a:1012:U:O2	32:2a:1017:G:O6	2.38	0.41
42:2k:43:SER:OG	42:2k:44:SER:N	2.54	0.41
42:2k:45:GLY:O	42:2k:50:TYR:HB2	2.20	0.41
1:1A:616:G:C4'	30:18:4:MET:HE2	2.51	0.41
1:1A:1074:A:H61	1:1A:1171:G:H2'	1.85	0.41
1:1A:2343:G:O2'	1:1A:2348:A:N1	2.49	0.41
1:1A:2367:C:H1'	22:10:39:ARG:NH2	2.24	0.41
4:1E:12:THR:HG21	15:1T:11:GLU:HG2	2.03	0.41
10:1O:97:ARG:NH1	32:1a:339:C:OP2	2.53	0.41
14:1S:20:ARG:NH2	22:10:51:VAL:O	2.53	0.41
16:1U:17:ILE:HG23	16:1U:39:LEU:HD12	2.02	0.41
32:1a:442:C:H42	32:1a:492:G:H1	1.69	0.41
32:1a:711:G:H2'	32:1a:712:A:H8	1.83	0.41
32:1a:1241:G:H2'	32:1a:1242:C:C6	2.55	0.41
32:1a:1342:C:H2'	32:1a:1343:G:C8	2.56	0.41
33:1b:17:PHE:HA	33:1b:44:LEU:HD11	2.02	0.41
34:1c:70:VAL:HG12	34:1c:72:LYS:N	2.35	0.41
37:1f:9:VAL:HB	37:1f:87:ARG:HB2	2.02	0.41
1:2A:647:G:H8	1:2A:647:G:O5'	2.03	0.41
1:2A:751:A:C6	1:2A:789:A:C5	3.09	0.41
1:2A:921:G:H2'	1:2A:922:U:H6	1.86	0.41
1:2A:1638:C:H4'	1:2A:2710:C:O2	2.21	0.41
1:2A:2291:U:H2'	1:2A:2292:C:H6	1.81	0.41
61:2A:4012:HOH:O	13:2R:3:HIS:NE2	2.37	0.41
13:2R:22:ARG:O	13:2R:26:LYS:HG3	2.20	0.41
23:21:50:ARG:HD2	23:21:57:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:91:C:H2'	32:2a:92:C:C6	2.56	0.41
32:2a:255:G:OP1	48:2q:69:LYS:NZ	2.51	0.41
32:2a:590:C:H2'	32:2a:591:U:C6	2.56	0.41
32:2a:1068:G:H8	32:2a:1068:G:OP2	2.02	0.41
32:2a:1148:U:H2'	32:2a:1149:C:O4'	2.20	0.41
33:2b:178:ARG:NH1	33:2b:196:LEU:O	2.53	0.41
34:2c:124:ILE:HD11	34:2c:189:ALA:HB1	2.02	0.41
40:2i:20:ARG:HA	40:2i:21:PRO:HD3	1.93	0.41
54:2w:51:U:H3	54:2w:63:G:H1	1.69	0.41
1:1A:946:A:H2'	1:1A:947:A:O4'	2.19	0.41
1:1A:1136:U:C2	1:1A:1148:C:H1'	2.56	0.41
1:1A:1137:G:O6	1:1A:1146:C:N3	2.53	0.41
1:1A:1186:U:H4'	1:1A:1188:A:O4'	2.21	0.41
1:1A:2387:G:O2'	1:1A:2389:A:N7	2.45	0.41
1:1A:2556:G:H2'	1:1A:2557:G:O4'	2.21	0.41
1:1A:2859:U:OP2	15:1T:95:ARG:NH1	2.54	0.41
5:1F:40:GLN:NE2	5:1F:182:ASN:HB2	2.36	0.41
7:1H:13:LYS:HA	7:1H:14:GLY:HA2	1.64	0.41
32:1a:828:A:H2'	32:1a:829:G:O4'	2.19	0.41
32:1a:1348:U:H4'	40:1i:120:ARG:HD2	2.01	0.41
38:1g:12:LEU:HD23	38:1g:24:THR:HG22	2.03	0.41
50:1s:27:GLU:CB	50:1s:28:LYS:HA	2.42	0.41
54:1w:51:U:H2'	54:1w:52:G:H8	1.85	0.41
1:2A:30:G:H2'	1:2A:31:C:C6	2.56	0.41
1:2A:271(O):C:H2'	1:2A:271(P):C:H6	1.84	0.41
1:2A:443:A:C6	5:2F:45:ARG:HD2	2.55	0.41
1:2A:787:U:OP2	61:2A:4071:HOH:O	2.21	0.41
1:2A:1628:G:H2'	1:2A:1629:U:C6	2.56	0.41
1:2A:1660:C:H2'	1:2A:1661:G:H8	1.85	0.41
1:2A:1818:U:O2'	3:2D:154:LYS:O	2.35	0.41
1:2A:1848:A:H2'	1:2A:1849:G:H8	1.84	0.41
1:2A:2010:G:H5''	18:2W:42:ARG:HB2	2.03	0.41
1:2A:2319:G:N2	14:2S:3:ARG:HA	2.36	0.41
1:2A:2712:U:H2'	1:2A:2714:G:H5''	2.01	0.41
12:2Q:137:TYR:O	12:2Q:141:GLN:HG2	2.20	0.41
13:2R:96:ARG:NH2	13:2R:117:VAL:HG13	2.36	0.41
15:2T:65:LYS:HE3	15:2T:67:SER:HB2	2.03	0.41
22:20:10:THR:HG22	22:20:12:ASN:N	2.20	0.41
26:24:53:GLU:OE1	26:24:53:GLU:N	2.37	0.41
32:2a:560:U:H6	32:2a:560:U:H2'	1.55	0.41
32:2a:701:C:O2	32:2a:703:G:N1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1203:C:H2'	32:2a:1204:A:C8	2.56	0.41
32:2a:1342:C:H2'	32:2a:1343:G:H8	1.86	0.41
38:2g:15:ASP:OD1	38:2g:19:GLY:N	2.54	0.41
1:1A:174:U:H2'	1:1A:175:G:H8	1.86	0.41
1:1A:592:U:OP2	61:1A:4381:HOH:O	2.21	0.41
1:1A:1099:C:H42	1:1A:1152:G:H1	1.69	0.41
1:1A:1440:U:C4	1:1A:1441:A:C6	3.09	0.41
1:1A:1857:G:H2'	1:1A:1858:C:O4'	2.20	0.41
1:1A:2038:U:O2'	27:15:7:PRO:O	2.31	0.41
1:1A:2332:A:N3	1:1A:2332:A:H2'	2.36	0.41
1:1A:2402:U:O2'	1:1A:2403:G:H5'	2.21	0.41
1:1A:2430:A:OP2	30:18:29:LYS:NZ	2.54	0.41
1:1A:2434:A:O4'	54:1y:76:A:N6	2.53	0.41
5:1F:32:LEU:HD22	5:1F:112:MET:HE3	2.02	0.41
5:1F:170:LEU:HA	5:1F:171:PRO:HD3	1.90	0.41
5:1F:192:LEU:HD22	5:1F:194:MET:HG3	2.03	0.41
7:1H:40:GLU:OE1	7:1H:61:HIS:NE2	2.52	0.41
9:1N:82:LEU:HD12	9:1N:82:LEU:HA	1.89	0.41
10:1O:4:PRO:O	10:1O:5:GLN:HB2	2.21	0.41
13:1R:29:LEU:HD12	13:1R:29:LEU:HA	1.76	0.41
19:1X:31:HIS:HA	19:1X:32:PRO:HD3	1.94	0.41
21:1Z:105:VAL:O	21:1Z:141:VAL:HG22	2.20	0.41
32:1a:12:U:H4'	32:1a:526:C:H4'	2.03	0.41
32:1a:376:G:OP2	47:1p:67:THR:HG21	2.21	0.41
32:1a:377:G:OP1	47:1p:5:ARG:HD2	2.21	0.41
32:1a:688:G:H2'	32:1a:689:C:H6	1.85	0.41
32:1a:872:A:C8	32:1a:874:G:C8	3.09	0.41
33:1b:93:VAL:HG21	33:1b:97:TRP:CD1	2.48	0.41
34:1c:52:LEU:HD23	34:1c:53:ALA:N	2.35	0.41
36:1e:68:GLU:HG3	36:1e:69:VAL:N	2.36	0.41
38:1g:69:VAL:HG22	38:1g:135:VAL:HG22	2.03	0.41
40:1i:79:LEU:HD22	40:1i:104:ARG:HB2	2.02	0.41
43:1l:8:ASN:O	43:1l:12:ARG:HG3	2.21	0.41
44:1m:17:VAL:O	44:1m:20:THR:OG1	2.38	0.41
50:1s:3:ARG:NE	50:1s:8:GLY:O	2.45	0.41
51:1t:40:ALA:HB2	51:1t:55:ILE:HG22	2.03	0.41
54:1y:48:C:H6	54:1y:48:C:OP2	2.04	0.41
1:2A:39:C:H2'	1:2A:40:C:C6	2.56	0.41
1:2A:300:A:P	20:2Y:86:ARG:HH21	2.43	0.41
1:2A:323:G:C8	5:2F:171:PRO:HG3	2.56	0.41
1:2A:330:A:H2	1:2A:1210:A:O2'	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:425:G:N2	1:2A:426:C:C2	2.89	0.41
1:2A:600:G:N2	1:2A:605:C:O3'	2.54	0.41
1:2A:784:A:H5'	1:2A:785:G:OP1	2.21	0.41
1:2A:832:G:N3	11:2P:53:GLY:HA3	2.35	0.41
1:2A:1319:G:C6	1:2A:1320:C:N4	2.89	0.41
1:2A:1331:A:H2'	1:2A:1333:C:C5	2.56	0.41
1:2A:1385:G:O2'	1:2A:1396:U:O2	2.29	0.41
1:2A:1782:C:O2	1:2A:2608:G:O2'	2.34	0.41
1:2A:1932:A:H2'	1:2A:1933:G:O4'	2.21	0.41
1:2A:2105:C:H2'	1:2A:2106:G:C8	2.55	0.41
1:2A:2148:G:H2'	1:2A:2149:G:H8	1.83	0.41
1:2A:2164:C:C5	1:2A:2165:G:N3	2.89	0.41
1:2A:2364:C:OP1	22:20:55:ARG:NH1	2.53	0.41
1:2A:2419:U:OP1	30:28:41:ILE:HD12	2.20	0.41
1:2A:2507:C:H5''	1:2A:2573:C:C4	2.56	0.41
2:2B:1:U:O2'	2:2B:2:C:O5'	2.34	0.41
2:2B:55:U:H1'	6:2G:29:TRP:CD1	2.56	0.41
3:2D:68:LYS:C	3:2D:70:TRP:H	2.29	0.41
3:2D:96:HIS:HD2	3:2D:102:LYS:HG2	1.85	0.41
4:2E:119:ARG:HH11	4:2E:119:ARG:HG3	1.86	0.41
7:2H:23:ARG:HA	7:2H:37:VAL:H	1.86	0.41
8:2I:123:LEU:HA	8:2I:144:VAL:HG23	2.03	0.41
9:2N:97:ARG:HA	9:2N:100:GLU:HB2	2.03	0.41
11:2P:113:LYS:HA	11:2P:129:ALA:O	2.21	0.41
15:2T:118:ARG:HG2	32:2a:1442(A):G:C8	2.55	0.41
30:28:9:GLY:O	30:28:13:ARG:HG3	2.21	0.41
32:2a:41:G:H2'	32:2a:42:G:H8	1.86	0.41
32:2a:84:U:H4'	32:2a:89:C:C4	2.55	0.41
32:2a:120:A:C6	32:2a:122:G:C2	3.09	0.41
32:2a:643:C:H2'	32:2a:644:G:H8	1.85	0.41
32:2a:688:G:H5'	42:2k:46:GLY:C	2.46	0.41
32:2a:913:A:OP1	43:2l:46:LYS:NZ	2.54	0.41
32:2a:1016:A:H2'	32:2a:1017:G:O4'	2.21	0.41
32:2a:1028:C:N3	32:2a:1033:G:C6	2.89	0.41
32:2a:1042:G:H2'	32:2a:1043:C:O4'	2.21	0.41
32:2a:1152:A:OP1	41:2j:70:ARG:NH2	2.39	0.41
32:2a:1181:G:O2'	32:2a:1182:G:C5	2.74	0.41
43:2l:53:ARG:HG3	43:2l:93:LEU:HD21	2.01	0.41
44:2m:16:ASP:O	44:2m:20:THR:HG23	2.21	0.41
50:2s:41:VAL:HG13	50:2s:42:PRO:HD2	2.03	0.41
54:2w:10:G:H2'	54:2w:11:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:2w:10:G:N2	54:2w:11:C:N3	2.69	0.41
1:1A:518:G:H2'	1:1A:519:G:O4'	2.21	0.41
1:1A:722:A:C8	1:1A:851:A:C6	3.09	0.41
1:1A:757:G:H2'	1:1A:758:G:H8	1.86	0.41
1:1A:898:U:O2'	25:13:42:ALA:O	2.35	0.41
1:1A:1427:G:N7	61:1A:4507:HOH:O	2.37	0.41
1:1A:2142:G:C2'	1:1A:2143:G:H5'	2.51	0.41
1:1A:2417:G:O2'	1:1A:2423:A:N6	2.54	0.41
1:1A:2453:C:OP2	1:1A:2598:C:O2'	2.36	0.41
3:1D:211:ARG:HG3	3:1D:214:TRP:CZ3	2.55	0.41
4:1E:143:ASN:HD22	4:1E:147:PRO:CD	2.34	0.41
10:1O:87:ILE:HD12	10:1O:91:LEU:HA	2.02	0.41
21:1Z:28:MET:HE1	21:1Z:61:LEU:HD21	2.03	0.41
32:1a:509:A:H5'	35:1d:54:TYR:HD2	1.86	0.41
32:1a:532:A:N6	32:1a:1206:G:O2'	2.54	0.41
32:1a:584:G:H5'	48:1q:91:ARG:NH2	2.36	0.41
34:1c:14:ILE:HD13	34:1c:178:LEU:HD23	2.03	0.41
35:1d:114:ARG:HA	35:1d:117:ALA:HB3	2.03	0.41
35:1d:173:TRP:CE3	35:1d:174:LEU:HG	2.56	0.41
42:1k:48:ILE:O	42:1k:50:TYR:N	2.51	0.41
49:1r:21:LYS:NZ	49:1r:54:ARG:O	2.54	0.41
1:2A:250:G:C6	1:2A:251:A:C6	3.09	0.41
1:2A:1665:A:H4'	10:2O:67:LYS:HB2	2.02	0.41
1:2A:1912:A:O2'	32:2a:1494:G:O2'	2.31	0.41
1:2A:2495:G:H5''	12:2Q:82:ARG:HG2	2.03	0.41
2:2B:11:C:H3'	2:2B:12:C:C6	2.56	0.41
3:2D:264:LYS:HA	3:2D:265:PRO:HD3	1.94	0.41
7:2H:144:VAL:O	7:2H:148:ILE:HG13	2.20	0.41
11:2P:62:LEU:O	30:28:13:ARG:NH1	2.53	0.41
11:2P:77:ARG:HB2	11:2P:78:PRO:HD2	2.03	0.41
12:2Q:85:LYS:N	12:2Q:85:LYS:HD2	2.36	0.41
23:21:56:GLN:NE2	23:21:87:PRO:HG3	2.36	0.41
25:23:59:VAL:HB	25:23:60:GLU:H	1.68	0.41
32:2a:560:U:H4'	32:2a:561:U:O5'	2.19	0.41
32:2a:977:A:H2'	32:2a:978:A:H5''	2.02	0.41
32:2a:1201:A:H4'	32:2a:1202:G:O5'	2.21	0.41
55:2x:8:4SU:O2	55:2x:21:A:H2	2.03	0.41
54:2y:42:C:H2'	54:2y:43:C:H6	1.86	0.41
54:2y:62:C:H2'	54:2y:63:G:C8	2.56	0.41
1:1A:588:C:H2'	1:1A:589:U:O4'	2.21	0.40
1:1A:616:G:C6	1:1A:617:U:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:928:G:C2	1:1A:929:G:H1'	2.56	0.40
1:1A:943:C:C2	1:1A:944:C:C4	3.09	0.40
1:1A:1109:G:C5	1:1A:1110:C:N4	2.90	0.40
1:1A:1941:A:N1	32:1a:1495:U:O2'	2.45	0.40
1:1A:2329:C:H2'	1:1A:2330:G:O4'	2.21	0.40
5:1F:110:LEU:HA	5:1F:183:VAL:HG12	2.02	0.40
6:1G:109:VAL:HG11	26:14:14:ILE:HG21	2.04	0.40
10:1O:78:ARG:HD2	61:1T:305:HOH:O	2.21	0.40
23:11:94:LEU:O	23:11:97:LEU:HB2	2.20	0.40
26:14:61:ARG:HH21	50:1s:42:PRO:HD2	1.86	0.40
32:1a:1036:G:H3'	32:1a:1037:C:C6	2.56	0.40
33:1b:12:GLU:O	33:1b:15:VAL:HG22	2.21	0.40
33:1b:62:ALA:HB3	33:1b:225:ALA:HB3	2.03	0.40
36:1e:131:ILE:HD13	36:1e:131:ILE:HA	1.97	0.40
50:1s:64:GLU:O	50:1s:67:VAL:HG23	2.21	0.40
1:2A:25:U:C4	1:2A:26:G:C6	3.09	0.40
1:2A:191:A:H2'	1:2A:192:C:C6	2.56	0.40
1:2A:784:A:H5''	61:2A:4004:HOH:O	2.21	0.40
1:2A:925:C:H2'	1:2A:926:A:C8	2.56	0.40
1:2A:974:G:N2	1:2A:989:G:H1'	2.37	0.40
1:2A:1526:G:C6	1:2A:1527:G:C2	3.09	0.40
1:2A:1614:A:C2	18:2W:93:ALA:HB2	2.56	0.40
1:2A:1668:A:H4'	1:2A:1669:A:O5'	2.21	0.40
1:2A:2332:U:O2'	1:2A:2335:A:N3	2.53	0.40
1:2A:2784:C:H1'	4:2E:37:ARG:NH1	2.33	0.40
4:2E:49:LEU:N	4:2E:79:ARG:O	2.52	0.40
4:2E:111:ARG:HA	13:2R:1:MET:SD	2.62	0.40
5:2F:53:THR:HG23	5:2F:55:GLY:N	2.28	0.40
15:2T:107:ASP:O	15:2T:111:ARG:HB2	2.22	0.40
32:2a:1190:G:O2'	34:2c:3:ASN:HB2	2.21	0.40
32:2a:1194:U:H4'	36:2e:22:GLY:CA	2.50	0.40
32:2a:1328:C:O2'	44:2m:29:ARG:NH2	2.52	0.40
34:2c:123:GLN:HA	34:2c:126:ARG:HD2	2.03	0.40
1:1A:390:G:H2'	1:1A:391:G:C8	2.56	0.40
1:1A:2412:G:O6	61:1A:4364:HOH:O	2.19	0.40
3:1D:109:ASP:HB2	3:1D:197:GLY:HA2	2.03	0.40
3:1D:206:LEU:HD23	3:1D:206:LEU:HA	1.84	0.40
4:1E:175:VAL:O	4:1E:177:PRO:HD3	2.21	0.40
9:1N:39:ARG:HA	9:1N:40:PRO:HD3	1.95	0.40
12:1Q:60:ARG:HH21	54:1w:53:G:P	2.44	0.40
13:1R:96:ARG:HG2	13:1R:115:GLU:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1W:68:ARG:NH1	18:1W:112:GLY:H	2.18	0.40
20:1Y:7:VAL:HG21	20:1Y:72:VAL:HG12	2.03	0.40
30:18:61:LEU:C	30:18:63:PRO:HD3	2.47	0.40
32:1a:942:G:C2	32:1a:1342:C:C2	3.10	0.40
32:1a:1144:G:N2	32:1a:1146:A:H62	2.20	0.40
32:1a:1258:G:H2'	32:1a:1259:C:H6	1.86	0.40
33:1b:15:VAL:HB	33:1b:209:ARG:HG3	2.02	0.40
35:1d:188:LEU:O	35:1d:188:LEU:HD12	2.22	0.40
37:1f:6:VAL:HG22	37:1f:90:VAL:HG22	2.02	0.40
38:1g:74:GLU:HG2	38:1g:91:VAL:HG22	2.03	0.40
39:1h:86:ILE:O	39:1h:88:LYS:HG3	2.21	0.40
40:1i:4:TYR:CZ	40:1i:88:TYR:HD1	2.39	0.40
1:2A:80:G:O2'	1:2A:294:A:N1	2.34	0.40
1:2A:143:G:C6	1:2A:143(A):C:C4	3.09	0.40
1:2A:250:G:H2'	1:2A:251:A:C8	2.57	0.40
1:2A:1007:C:OP1	9:2N:35:ARG:NH1	2.51	0.40
1:2A:1292:U:H2'	1:2A:1293:C:H6	1.86	0.40
1:2A:1913:A:H4'	1:2A:1914:C:O5'	2.21	0.40
1:2A:2287:A:C4	1:2A:2289:G:C8	3.09	0.40
2:2B:40:U:N3	2:2B:44:G:OP2	2.38	0.40
6:2G:59:GLU:CD	6:2G:138:GLN:HE21	2.29	0.40
11:2P:85:LEU:HA	11:2P:88:LEU:HD12	2.04	0.40
15:2T:51:ARG:HB3	15:2T:62:THR:HB	2.02	0.40
19:2X:5:TYR:CZ	24:22:30:ARG:HB2	2.56	0.40
32:2a:601:C:H2'	32:2a:602:A:C8	2.56	0.40
32:2a:684:A:N6	61:2a:3374:HOH:O	2.54	0.40
32:2a:994:A:N3	32:2a:994:A:H2'	2.36	0.40
32:2a:1067:A:H8	32:2a:1067:A:O5'	2.03	0.40
41:2j:40:LEU:HB2	41:2j:69:ASN:HB2	2.04	0.40
41:2j:74:ILE:HD13	41:2j:81:THR:HG21	2.03	0.40
48:2q:21:VAL:HG21	48:2q:59:ILE:HG21	2.04	0.40
54:2w:12:U:H3'	54:2w:13:C:H5''	2.03	0.40
55:2x:53:G:H2'	55:2x:54:5MU:C6	2.57	0.40
1:1A:410:U:H2'	1:1A:412:C:H5	1.87	0.40
1:1A:596:G:OP2	17:1V:78:LYS:NZ	2.46	0.40
1:1A:2705:A:H2'	1:1A:2706:G:C8	2.56	0.40
4:1E:2:LYS:HG2	4:1E:200:GLU:HB2	2.02	0.40
5:1F:132:VAL:HG21	5:1F:163:VAL:HG22	2.02	0.40
11:1P:50:ARG:HG3	30:18:61:LEU:HD21	2.03	0.40
23:11:56:GLN:HE21	23:11:87:PRO:HG3	1.86	0.40
32:1a:104:G:C2	32:1a:105:G:C8	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:437:U:O2'	35:1d:125:HIS:HE1	2.04	0.40
32:1a:509:A:O2'	32:1a:510:A:OP1	2.27	0.40
32:1a:952:U:H2'	32:1a:953:G:C8	2.56	0.40
33:1b:16:HIS:CG	33:1b:17:PHE:N	2.90	0.40
33:1b:185:ILE:HA	33:1b:199:TYR:O	2.22	0.40
35:1d:3:ARG:HG3	35:1d:5:ILE:HG23	2.03	0.40
36:1e:152:ARG:NH2	39:1h:107:LEU:O	2.54	0.40
37:1f:39:LYS:HE3	37:1f:39:LYS:HB3	1.88	0.40
39:1h:91:ARG:HD3	48:1q:32:TYR:O	2.21	0.40
43:1l:124:LYS:HA	43:1l:125:PRO:HD3	1.77	0.40
49:1r:33:ASP:OD2	49:1r:36:ASN:HB2	2.20	0.40
54:1y:7:A:C6	54:1y:49:C:C4	3.10	0.40
1:2A:118:A:OP1	29:27:22:MET:HE2	2.20	0.40
1:2A:323:G:H1'	1:2A:1205:U:O2	2.21	0.40
1:2A:655:A:H8	1:2A:656:G:O4'	2.05	0.40
1:2A:952:G:C6	1:2A:966:G:C6	3.09	0.40
1:2A:2265:U:H4'	12:2Q:13:GLN:HE22	1.86	0.40
1:2A:2377:A:H2'	1:2A:2378:A:C8	2.56	0.40
1:2A:2483:C:H2'	1:2A:2484:G:O4'	2.21	0.40
1:2A:2872:G:O2'	1:2A:2873:A:H5'	2.22	0.40
1:2A:2889:C:H2'	1:2A:2891:G:O4'	2.21	0.40
2:2B:28:C:H2'	2:2B:29:A:O4'	2.22	0.40
5:2F:158:THR:O	5:2F:164:ARG:NH1	2.38	0.40
12:2Q:26:TYR:CD1	12:2Q:28:ALA:HB2	2.56	0.40
12:2Q:37:LEU:HB2	12:2Q:128:LYS:O	2.22	0.40
18:2W:34:ASN:ND2	27:25:39:MET:HG3	2.37	0.40
28:26:40:CYS:HA	28:26:41:PRO:HD3	1.86	0.40
32:2a:156:G:H1	32:2a:165:C:H42	1.69	0.40
32:2a:193:C:H2'	32:2a:194:C:C6	2.56	0.40
32:2a:324:G:N2	32:2a:326:G:H3'	2.36	0.40
32:2a:392:G:OP1	47:2p:8:ARG:NH2	2.55	0.40
32:2a:923:A:N6	32:2a:1392:G:O6	2.55	0.40
32:2a:1360:A:H8	32:2a:1360:A:OP1	2.05	0.40
34:2c:112:SER:O	34:2c:116:VAL:HG23	2.22	0.40
36:2e:69:VAL:HG22	36:2e:71:LEU:HD12	2.02	0.40
49:2r:22:VAL:HB	49:2r:56:THR:HA	2.03	0.40
54:2w:36:A:H2'	54:2w:37:MIA:H8	2.03	0.40
1:1A:581:G:OP1	9:1N:111:PRO:HD2	2.22	0.40
1:1A:592:U:C4	1:1A:593:G:C6	3.09	0.40
1:1A:1411:A:OP2	23:11:3:LYS:HG2	2.22	0.40
61:1A:5937:HOH:O	55:1x:76:A:H3'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1B:44:G:C2	2:1B:48:A:C2	3.10	0.40
6:1G:56:ALA:O	6:1G:59:GLU:HG2	2.22	0.40
20:1Y:20:TYR:HB3	20:1Y:23:ARG:HG3	2.02	0.40
21:1Z:156:LYS:HE3	21:1Z:158:PRO:HD3	2.03	0.40
30:18:26:LYS:HD3	30:18:48:PHE:HB3	2.04	0.40
32:1a:340:U:H2'	32:1a:341:C:C6	2.56	0.40
32:1a:826:C:H4'	39:1h:12:ARG:HG2	2.04	0.40
32:1a:924:C:H2'	32:1a:925:G:C8	2.57	0.40
32:1a:1060:C:C2	32:1a:1198:G:C2	3.10	0.40
32:1a:1346:A:N1	32:1a:1374:A:H5''	2.36	0.40
33:1b:151:GLY:HA2	33:1b:154:LEU:HD13	2.04	0.40
33:1b:204:ASN:OD1	33:1b:206:ASP:N	2.45	0.40
34:1c:81:GLY:O	34:1c:85:ARG:HG3	2.22	0.40
34:1c:116:VAL:HG21	34:1c:202:ILE:HD11	2.04	0.40
39:1h:85:ARG:NH1	39:1h:134:ILE:HG23	2.36	0.40
42:1k:18:ARG:HB2	42:1k:33:THR:OG1	2.20	0.40
43:1l:24:VAL:HB	43:1l:27:LEU:HD22	2.02	0.40
50:1s:7:LYS:HB3	50:1s:7:LYS:HE3	1.81	0.40
1:2A:652(B):A:H61	1:2A:655:A:H1'	1.86	0.40
1:2A:1218:C:N4	1:2A:1231:G:H1	2.20	0.40
1:2A:1815:A:OP1	1:2A:1815:A:H8	2.05	0.40
1:2A:2484:G:C2	1:2A:2485:G:C8	3.09	0.40
1:2A:2506:U:HO2'	54:2w:76:A:H4'	1.86	0.40
1:2A:2857:G:N2	1:2A:2860:A:OP2	2.55	0.40
3:2D:69:ARG:HH11	3:2D:69:ARG:HG2	1.87	0.40
5:2F:9:ILE:HG21	5:2F:125:LEU:HD12	2.04	0.40
10:2O:15:GLY:O	10:2O:47:ILE:HG12	2.21	0.40
11:2P:126:VAL:HG12	11:2P:148:LEU:HD23	2.02	0.40
15:2T:127:ALA:C	15:2T:129:ARG:N	2.78	0.40
32:2a:114:U:O2'	32:2a:115:G:H5'	2.22	0.40
32:2a:196:A:OP1	51:2t:68:LYS:NZ	2.43	0.40
32:2a:441:A:H3'	32:2a:442:C:H6	1.86	0.40
32:2a:976:G:N2	32:2a:1363:C:OP2	2.38	0.40
34:2c:47:LEU:CD1	34:2c:68:VAL:HG11	2.52	0.40
36:2e:51:VAL:O	36:2e:55:VAL:HG23	2.20	0.40
37:2f:97:PHE:HD2	49:2r:31:LEU:HD12	1.85	0.40
41:2j:9:ARG:HH12	41:2j:69:ASN:HD21	1.69	0.40
50:2s:80:TYR:CZ	50:2s:82:GLY:HA2	2.57	0.40
1:1A:364:A:H2'	1:1A:365:G:O4'	2.22	0.40
1:1A:703:G:H2'	1:1A:704:U:O4'	2.21	0.40
1:1A:1051:C:H5''	61:1A:5052:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1696:G:O2'	13:1R:107:ASP:OD2	2.31	0.40
1:1A:1793:A:H2'	61:1A:6101:HOH:O	2.22	0.40
1:1A:2368:C:O3'	22:10:20:ARG:HD3	2.22	0.40
2:1B:91:C:OP2	12:1Q:16:ARG:NH1	2.55	0.40
3:1D:71:ASP:CB	3:1D:103:ARG:HH12	2.32	0.40
4:1E:93:VAL:HG13	61:1E:406:HOH:O	2.21	0.40
5:1F:24:LEU:HD23	5:1F:115:ALA:HA	2.02	0.40
7:1H:94:TYR:OH	7:1H:152:ARG:NH1	2.54	0.40
13:1R:9:LYS:O	13:1R:17:ARG:HD3	2.21	0.40
30:18:52:LYS:N	30:18:53:PRO:HD2	2.37	0.40
32:1a:343:U:O2'	32:1a:344:A:H2'	2.21	0.40
32:1a:401:C:H2'	32:1a:402:G:C8	2.56	0.40
32:1a:405:U:O4	35:1d:2:GLY:N	2.54	0.40
32:1a:1041:A:H2'	32:1a:1042:G:C8	2.57	0.40
32:1a:1104:G:H4'	33:1b:111:ARG:NH2	2.36	0.40
32:1a:1196:U:H3	34:1c:162:GLN:HE22	1.68	0.40
32:1a:1228:C:OP1	44:1m:115:LYS:NZ	2.46	0.40
32:1a:1445:C:O2'	32:1a:1447:A:N6	2.53	0.40
33:1b:97:TRP:HZ2	33:1b:102:LEU:HD13	1.86	0.40
35:1d:61:LYS:HD3	35:1d:206:PHE:CE2	2.56	0.40
1:2A:151:C:H2'	1:2A:152:G:C8	2.57	0.40
1:2A:614:U:H5'	1:2A:614(C):A:N6	2.37	0.40
1:2A:855:G:C5	1:2A:856:C:C4	3.10	0.40
1:2A:2307:G:H8	1:2A:2307:G:OP1	2.04	0.40
1:2A:2497:A:H5''	61:2A:4122:HOH:O	2.21	0.40
2:2B:19:G:H2'	2:2B:20:C:O4'	2.22	0.40
32:2a:329:A:C5	32:2a:332:G:C6	3.10	0.40
32:2a:377:G:H5'	47:2p:5:ARG:HH12	1.86	0.40
32:2a:407:G:H2'	32:2a:408:A:C8	2.57	0.40
32:2a:1169:A:H2'	32:2a:1170:A:C8	2.57	0.40
32:2a:1318:A:H5''	50:2s:3:ARG:NH2	2.36	0.40
32:2a:1423:G:H2'	32:2a:1424:C:C6	2.56	0.40
33:2b:48:MET:O	33:2b:52:GLU:N	2.46	0.40
33:2b:87:ARG:CZ	33:2b:233:SER:HB3	2.51	0.40
33:2b:224:GLN:HA	33:2b:228:GLY:O	2.22	0.40
34:2c:181:ASN:ND2	34:2c:204:LEU:HD12	2.37	0.40
55:2x:3:C:H2'	55:2x:4:G:C8	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	263 (96%)	10 (4%)	0	100	100
3	2D	273/276 (99%)	263 (96%)	9 (3%)	1 (0%)	30	60
4	1E	202/206 (98%)	195 (96%)	6 (3%)	1 (0%)	24	55
4	2E	202/206 (98%)	195 (96%)	6 (3%)	1 (0%)	24	55
5	1F	201/210 (96%)	198 (98%)	2 (1%)	1 (0%)	24	55
5	2F	201/210 (96%)	195 (97%)	4 (2%)	2 (1%)	12	38
6	1G	179/182 (98%)	167 (93%)	11 (6%)	1 (1%)	21	51
6	2G	179/182 (98%)	167 (93%)	11 (6%)	1 (1%)	21	51
7	1H	171/180 (95%)	161 (94%)	8 (5%)	2 (1%)	10	34
7	2H	171/180 (95%)	162 (95%)	8 (5%)	1 (1%)	21	51
8	1I	144/148 (97%)	136 (94%)	8 (6%)	0	100	100
8	2I	144/148 (97%)	133 (92%)	10 (7%)	1 (1%)	18	47
9	1N	138/140 (99%)	134 (97%)	4 (3%)	0	100	100
9	2N	138/140 (99%)	132 (96%)	5 (4%)	1 (1%)	18	47
10	1O	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
10	2O	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
11	1P	147/150 (98%)	140 (95%)	7 (5%)	0	100	100
11	2P	147/150 (98%)	136 (92%)	11 (8%)	0	100	100
12	1Q	139/141 (99%)	132 (95%)	7 (5%)	0	100	100
12	2Q	139/141 (99%)	132 (95%)	6 (4%)	1 (1%)	18	47
13	1R	116/118 (98%)	110 (95%)	6 (5%)	0	100	100
13	2R	116/118 (98%)	110 (95%)	6 (5%)	0	100	100
14	1S	108/112 (96%)	106 (98%)	2 (2%)	0	100	100
14	2S	108/112 (96%)	105 (97%)	2 (2%)	1 (1%)	14	41
15	1T	129/146 (88%)	122 (95%)	7 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	2T	129/146 (88%)	122 (95%)	7 (5%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	114 (100%)	0	0	100	100
17	1V	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	12	38
17	2V	99/101 (98%)	95 (96%)	3 (3%)	1 (1%)	12	38
18	1W	110/113 (97%)	110 (100%)	0	0	100	100
18	2W	110/113 (97%)	110 (100%)	0	0	100	100
19	1X	93/96 (97%)	91 (98%)	2 (2%)	0	100	100
19	2X	93/96 (97%)	89 (96%)	3 (3%)	1 (1%)	11	36
20	1Y	105/110 (96%)	100 (95%)	3 (3%)	2 (2%)	6	22
20	2Y	105/110 (96%)	101 (96%)	3 (3%)	1 (1%)	12	38
21	1Z	148/206 (72%)	134 (90%)	14 (10%)	0	100	100
21	2Z	156/206 (76%)	139 (89%)	16 (10%)	1 (1%)	21	51
22	10	81/85 (95%)	80 (99%)	1 (1%)	0	100	100
22	20	81/85 (95%)	77 (95%)	3 (4%)	1 (1%)	10	34
23	11	95/98 (97%)	92 (97%)	3 (3%)	0	100	100
23	21	95/98 (97%)	92 (97%)	3 (3%)	0	100	100
24	12	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
24	22	68/72 (94%)	68 (100%)	0	0	100	100
25	13	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
25	23	57/60 (95%)	54 (95%)	2 (4%)	1 (2%)	6	23
26	14	67/71 (94%)	55 (82%)	7 (10%)	5 (8%)	1	2
26	24	67/71 (94%)	53 (79%)	8 (12%)	6 (9%)	0	1
27	15	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
27	25	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
28	16	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
28	26	51/54 (94%)	51 (100%)	0	0	100	100
29	17	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
29	27	46/49 (94%)	44 (96%)	1 (2%)	1 (2%)	5	19
30	18	62/65 (95%)	62 (100%)	0	0	100	100
30	28	62/65 (95%)	62 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	19	35/37 (95%)	35 (100%)	0	0	100	100
31	29	35/37 (95%)	35 (100%)	0	0	100	100
33	1b	229/256 (90%)	201 (88%)	20 (9%)	8 (4%)	3	10
33	2b	229/256 (90%)	202 (88%)	20 (9%)	7 (3%)	3	12
34	1c	204/239 (85%)	189 (93%)	13 (6%)	2 (1%)	12	38
34	2c	204/239 (85%)	188 (92%)	15 (7%)	1 (0%)	24	55
35	1d	206/209 (99%)	195 (95%)	10 (5%)	1 (0%)	24	55
35	2d	206/209 (99%)	198 (96%)	7 (3%)	1 (0%)	24	55
36	1e	146/162 (90%)	141 (97%)	2 (1%)	3 (2%)	5	20
36	2e	146/162 (90%)	139 (95%)	6 (4%)	1 (1%)	18	47
37	1f	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
37	2f	98/101 (97%)	96 (98%)	2 (2%)	0	100	100
38	1g	153/156 (98%)	145 (95%)	6 (4%)	2 (1%)	9	31
38	2g	153/156 (98%)	142 (93%)	8 (5%)	3 (2%)	6	21
39	1h	135/138 (98%)	131 (97%)	4 (3%)	0	100	100
39	2h	135/138 (98%)	130 (96%)	4 (3%)	1 (1%)	18	47
40	1i	125/128 (98%)	114 (91%)	11 (9%)	0	100	100
40	2i	125/128 (98%)	114 (91%)	11 (9%)	0	100	100
41	1j	95/105 (90%)	82 (86%)	6 (6%)	7 (7%)	1	2
41	2j	94/105 (90%)	84 (89%)	5 (5%)	5 (5%)	1	5
42	1k	112/129 (87%)	104 (93%)	6 (5%)	2 (2%)	6	23
42	2k	112/129 (87%)	104 (93%)	7 (6%)	1 (1%)	14	41
43	1l	119/132 (90%)	114 (96%)	5 (4%)	0	100	100
43	2l	119/132 (90%)	112 (94%)	7 (6%)	0	100	100
44	1m	121/126 (96%)	113 (93%)	7 (6%)	1 (1%)	16	44
44	2m	120/126 (95%)	112 (93%)	7 (6%)	1 (1%)	16	44
45	1n	58/61 (95%)	55 (95%)	3 (5%)	0	100	100
45	2n	58/61 (95%)	54 (93%)	4 (7%)	0	100	100
46	1o	86/89 (97%)	83 (96%)	3 (4%)	0	100	100
46	2o	86/89 (97%)	80 (93%)	6 (7%)	0	100	100
47	1p	80/88 (91%)	75 (94%)	5 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	2p	80/88 (91%)	74 (92%)	5 (6%)	1 (1%)	9	31
48	1q	97/105 (92%)	95 (98%)	2 (2%)	0	100	100
48	2q	97/105 (92%)	96 (99%)	1 (1%)	0	100	100
49	1r	66/88 (75%)	66 (100%)	0	0	100	100
49	2r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
50	1s	81/93 (87%)	73 (90%)	7 (9%)	1 (1%)	10	34
50	2s	81/93 (87%)	72 (89%)	7 (9%)	2 (2%)	4	16
51	1t	94/106 (89%)	86 (92%)	4 (4%)	4 (4%)	2	7
51	2t	94/106 (89%)	87 (93%)	3 (3%)	4 (4%)	2	7
52	1u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
52	2u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
All	All	11368/12128 (94%)	10766 (95%)	507 (4%)	95 (1%)	16	44

All (95) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
26	14	53	GLU
26	14	61	ARG
33	1b	17	PHE
38	1g	79	ARG
41	1j	32	ALA
50	1s	81	ARG
5	2F	21	ALA
5	2F	130	ALA
7	2H	126	PRO
8	2I	10	GLU
12	2Q	28	ALA
26	24	55	ARG
26	24	61	ARG
29	27	46	VAL
33	2b	16	HIS
33	2b	17	PHE
38	2g	79	ARG
50	2s	81	ARG
6	1G	43	LEU
7	1H	126	PRO
17	1V	79	VAL

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Mol	Chain	Res	Type
26	14	45	GLY
26	14	57	GLU
41	1j	55	LYS
41	1j	56	HIS
41	1j	75	ILE
42	1k	49	GLY
51	1t	47	GLY
51	1t	96	GLY
51	1t	100	ILE
4	2E	52	LEU
9	2N	2	LYS
17	2V	79	VAL
26	24	45	GLY
33	2b	78	GLN
41	2j	56	HIS
41	2j	75	ILE
51	2t	47	GLY
51	2t	100	ILE
4	1E	52	LEU
20	1Y	78	ALA
26	14	44	THR
33	1b	20	GLU
33	1b	21	ARG
33	1b	231	GLU
41	1j	78	ASN
3	2D	3	VAL
6	2G	43	LEU
14	2S	84	GLN
26	24	46	GLN
26	24	62	ARG
33	2b	231	GLU
38	2g	7	ALA
41	2j	55	LYS
41	2j	78	ASN
42	2k	49	GLY
44	2m	4	ILE
50	2s	29	ARG
51	2t	95	ALA
20	1Y	54	LYS
33	1b	78	GLN
33	1b	125	PRO
34	1c	3	ASN

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Mol	Chain	Res	Type
35	1d	178	VAL
36	1e	86	ALA
41	1j	31	GLY
41	1j	77	PRO
19	2X	2	LYS
20	2Y	78	ALA
21	2Z	146	ILE
22	20	4	LYS
33	2b	125	PRO
34	2c	3	ASN
36	2e	69	VAL
38	2g	80	VAL
39	2h	73	ASP
33	1b	16	HIS
33	1b	37	ASN
34	1c	66	VAL
38	1g	80	VAL
26	24	65	ASP
33	2b	20	GLU
36	1e	69	VAL
33	2b	95	GLN
41	2j	77	PRO
44	1m	6	GLY
47	2p	53	VAL
7	1H	92	ILE
42	1k	105	VAL
51	1t	102	GLY
36	1e	85	GLY
25	23	59	VAL
35	2d	5	ILE
51	2t	102	GLY

5.3.2 Protein sidechains ⓘ

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

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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	215/218 (99%)	208 (97%)	7 (3%)	33	69
3	2D	215/218 (99%)	209 (97%)	6 (3%)	38	73
4	1E	164/166 (99%)	151 (92%)	13 (8%)	11	35
4	2E	164/166 (99%)	150 (92%)	14 (8%)	10	31
5	1F	160/166 (96%)	149 (93%)	11 (7%)	14	41
5	2F	159/166 (96%)	147 (92%)	12 (8%)	12	37
6	1G	143/156 (92%)	137 (96%)	6 (4%)	26	61
6	2G	143/156 (92%)	134 (94%)	9 (6%)	16	45
7	1H	143/148 (97%)	138 (96%)	5 (4%)	32	67
7	2H	143/148 (97%)	139 (97%)	4 (3%)	38	73
8	1I	113/124 (91%)	105 (93%)	8 (7%)	13	39
8	2I	105/124 (85%)	100 (95%)	5 (5%)	23	56
9	1N	118/119 (99%)	115 (98%)	3 (2%)	42	76
9	2N	118/119 (99%)	114 (97%)	4 (3%)	32	68
10	1O	100/100 (100%)	98 (98%)	2 (2%)	48	80
10	2O	100/100 (100%)	98 (98%)	2 (2%)	48	80
11	1P	115/116 (99%)	113 (98%)	2 (2%)	53	83
11	2P	115/116 (99%)	112 (97%)	3 (3%)	40	75
12	1Q	111/111 (100%)	109 (98%)	2 (2%)	51	82
12	2Q	111/111 (100%)	106 (96%)	5 (4%)	24	58
13	1R	101/101 (100%)	94 (93%)	7 (7%)	14	41
13	2R	101/101 (100%)	95 (94%)	6 (6%)	18	48
14	1S	86/88 (98%)	83 (96%)	3 (4%)	32	67
14	2S	85/88 (97%)	83 (98%)	2 (2%)	43	77
15	1T	115/127 (91%)	112 (97%)	3 (3%)	40	75
15	2T	113/127 (89%)	110 (97%)	3 (3%)	39	74
16	1U	93/94 (99%)	92 (99%)	1 (1%)	65	87
16	2U	93/94 (99%)	92 (99%)	1 (1%)	65	87
17	1V	80/82 (98%)	73 (91%)	7 (9%)	9	29
17	2V	80/82 (98%)	73 (91%)	7 (9%)	9	29

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	1W	90/92 (98%)	87 (97%)	3 (3%)	33	69
18	2W	90/92 (98%)	85 (94%)	5 (6%)	19	50
19	1X	77/78 (99%)	77 (100%)	0	100	100
19	2X	77/78 (99%)	77 (100%)	0	100	100
20	1Y	85/91 (93%)	81 (95%)	4 (5%)	23	57
20	2Y	85/91 (93%)	83 (98%)	2 (2%)	43	77
21	1Z	135/179 (75%)	129 (96%)	6 (4%)	25	59
21	2Z	137/179 (76%)	132 (96%)	5 (4%)	31	66
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%)	79 (99%)	1 (1%)	61	86
23	21	80/83 (96%)	79 (99%)	1 (1%)	61	86
24	12	65/67 (97%)	65 (100%)	0	100	100
24	22	65/67 (97%)	65 (100%)	0	100	100
25	13	51/52 (98%)	50 (98%)	1 (2%)	48	80
25	23	50/52 (96%)	49 (98%)	1 (2%)	48	80
26	14	59/63 (94%)	57 (97%)	2 (3%)	32	68
26	24	53/63 (84%)	52 (98%)	1 (2%)	50	81
27	15	50/52 (96%)	47 (94%)	3 (6%)	17	47
27	25	50/52 (96%)	47 (94%)	3 (6%)	17	47
28	16	51/52 (98%)	50 (98%)	1 (2%)	48	80
28	26	50/52 (96%)	49 (98%)	1 (2%)	48	80
29	17	41/42 (98%)	40 (98%)	1 (2%)	43	77
29	27	41/42 (98%)	39 (95%)	2 (5%)	22	55
30	18	54/55 (98%)	51 (94%)	3 (6%)	19	50
30	28	54/55 (98%)	51 (94%)	3 (6%)	19	50
31	19	34/34 (100%)	34 (100%)	0	100	100
31	29	34/34 (100%)	34 (100%)	0	100	100
33	1b	192/220 (87%)	188 (98%)	4 (2%)	47	79
33	2b	187/220 (85%)	182 (97%)	5 (3%)	39	74
34	1c	142/188 (76%)	141 (99%)	1 (1%)	76	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	2c	140/188 (74%)	138 (99%)	2 (1%)	59	85
35	1d	169/181 (93%)	157 (93%)	12 (7%)	13	39
35	2d	173/181 (96%)	166 (96%)	7 (4%)	28	63
36	1e	113/123 (92%)	110 (97%)	3 (3%)	39	74
36	2e	114/123 (93%)	111 (97%)	3 (3%)	40	75
37	1f	84/90 (93%)	82 (98%)	2 (2%)	43	77
37	2f	85/90 (94%)	82 (96%)	3 (4%)	32	67
38	1g	119/127 (94%)	118 (99%)	1 (1%)	73	90
38	2g	120/127 (94%)	118 (98%)	2 (2%)	53	83
39	1h	114/119 (96%)	112 (98%)	2 (2%)	51	82
39	2h	114/119 (96%)	113 (99%)	1 (1%)	70	89
40	1i	90/99 (91%)	89 (99%)	1 (1%)	65	87
40	2i	89/99 (90%)	85 (96%)	4 (4%)	24	58
41	1j	66/92 (72%)	65 (98%)	1 (2%)	57	84
41	2j	69/92 (75%)	67 (97%)	2 (3%)	37	73
42	1k	82/99 (83%)	80 (98%)	2 (2%)	43	77
42	2k	83/99 (84%)	82 (99%)	1 (1%)	63	87
43	1l	96/108 (89%)	93 (97%)	3 (3%)	35	70
43	2l	96/108 (89%)	94 (98%)	2 (2%)	47	79
44	1m	93/101 (92%)	91 (98%)	2 (2%)	45	78
44	2m	92/101 (91%)	90 (98%)	2 (2%)	45	78
45	1n	49/50 (98%)	45 (92%)	4 (8%)	10	33
45	2n	49/50 (98%)	46 (94%)	3 (6%)	17	46
46	1o	78/80 (98%)	77 (99%)	1 (1%)	61	86
46	2o	78/80 (98%)	78 (100%)	0	100	100
47	1p	69/74 (93%)	63 (91%)	6 (9%)	9	30
47	2p	68/74 (92%)	65 (96%)	3 (4%)	25	59
48	1q	94/97 (97%)	93 (99%)	1 (1%)	65	87
48	2q	94/97 (97%)	92 (98%)	2 (2%)	47	79
49	1r	59/77 (77%)	57 (97%)	2 (3%)	32	68
49	2r	59/77 (77%)	58 (98%)	1 (2%)	53	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	1s	69/80 (86%)	67 (97%)	2 (3%)	37	73
50	2s	67/80 (84%)	66 (98%)	1 (2%)	57	84
51	1t	70/82 (85%)	69 (99%)	1 (1%)	59	85
51	2t	70/82 (85%)	70 (100%)	0	100	100
52	1u	18/22 (82%)	18 (100%)	0	100	100
52	2u	18/22 (82%)	18 (100%)	0	100	100
All	All	9301/10064 (92%)	8994 (97%)	307 (3%)	33	69

All (307) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	3	VAL
3	1D	106	ILE
3	1D	122	ASP
3	1D	221	VAL
3	1D	229	VAL
3	1D	242	ARG
3	1D	257	LEU
4	1E	9	VAL
4	1E	12	THR
4	1E	14	ILE
4	1E	21	VAL
4	1E	24	THR
4	1E	34	VAL
4	1E	49	LEU
4	1E	75	VAL
4	1E	116	VAL
4	1E	134	ILE
4	1E	170	LEU
4	1E	175	VAL
4	1E	181	LEU
5	1F	33	LEU
5	1F	53	THR
5	1F	57	VAL
5	1F	74	ARG
5	1F	88	VAL
5	1F	106	ARG
5	1F	132	VAL
5	1F	170	LEU
5	1F	183	VAL

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Mol	Chain	Res	Type
5	1F	192	LEU
5	1F	201	VAL
6	1G	3	LEU
6	1G	5	VAL
6	1G	43	LEU
6	1G	133	LEU
6	1G	159	VAL
6	1G	175	LEU
7	1H	15	VAL
7	1H	18	GLU
7	1H	71	LEU
7	1H	84	SER
7	1H	89	ILE
8	1I	2	LYS
8	1I	47	LEU
8	1I	92	VAL
8	1I	107	VAL
8	1I	108	THR
8	1I	109	ILE
8	1I	123	LEU
8	1I	127	VAL
9	1N	28	THR
9	1N	62	VAL
9	1N	99	LEU
10	1O	10	VAL
10	1O	98	VAL
11	1P	95	VAL
11	1P	125	VAL
12	1Q	35	VAL
12	1Q	75	THR
13	1R	6	SER
13	1R	29	LEU
13	1R	44	LEU
13	1R	65	LEU
13	1R	100	LEU
13	1R	111	LEU
13	1R	114	VAL
14	1S	8	GLU
14	1S	49	VAL
14	1S	69	VAL
15	1T	28	VAL
15	1T	74	ARG

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Mol	Chain	Res	Type
15	1T	96	ARG
16	1U	95	LEU
17	1V	46	VAL
17	1V	51	VAL
17	1V	52	VAL
17	1V	61	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	79	VAL
18	1W	17	VAL
18	1W	23	LEU
18	1W	107	LEU
20	1Y	11	ASP
20	1Y	43	ASN
20	1Y	72	VAL
20	1Y	90	LEU
21	1Z	33	LEU
21	1Z	42	VAL
21	1Z	86	VAL
21	1Z	154	ASP
21	1Z	170	THR
21	1Z	171	ILE
23	11	30	VAL
25	13	54	VAL
26	14	50	VAL
26	14	56	VAL
27	15	6	VAL
27	15	16	ARG
27	15	29	THR
28	16	48	VAL
29	17	43	THR
30	18	14	VAL
30	18	29	LYS
30	18	32	LEU
33	1b	8	LYS
33	1b	112	VAL
33	1b	185	ILE
33	1b	223	ILE
34	1c	172	ARG
35	1d	5	ILE
35	1d	10	ARG
35	1d	31	CYS

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Mol	Chain	Res	Type
35	1d	49	ARG
35	1d	59	ARG
35	1d	91	SER
35	1d	108	LEU
35	1d	112	VAL
35	1d	135	LEU
35	1d	158	ILE
35	1d	178	VAL
35	1d	194	LEU
36	1e	31	LEU
36	1e	41	VAL
36	1e	149	GLU
37	1f	72	VAL
37	1f	81	ILE
38	1g	50	ILE
39	1h	69	ARG
39	1h	112	LEU
40	1i	64	THR
41	1j	49	VAL
42	1k	31	THR
42	1k	114	VAL
43	1l	36	VAL
43	1l	55	VAL
43	1l	83	VAL
44	1m	19	LEU
44	1m	47	ASP
45	1n	7	ILE
45	1n	18	VAL
45	1n	32	SER
45	1n	33	VAL
46	1o	83	GLU
47	1p	2	VAL
47	1p	5	ARG
47	1p	19	ILE
47	1p	20	VAL
47	1p	33	ILE
47	1p	67	THR
48	1q	53	LEU
49	1r	31	LEU
49	1r	54	ARG
50	1s	5	LEU
50	1s	41	VAL

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Mol	Chain	Res	Type
51	1t	13	LEU
3	2D	3	VAL
3	2D	94	LEU
3	2D	106	ILE
3	2D	142	VAL
3	2D	221	VAL
3	2D	242	ARG
4	2E	9	VAL
4	2E	12	THR
4	2E	14	ILE
4	2E	21	VAL
4	2E	24	THR
4	2E	34	VAL
4	2E	52	LEU
4	2E	75	VAL
4	2E	116	VAL
4	2E	119	ARG
4	2E	170	LEU
4	2E	175	VAL
4	2E	181	LEU
4	2E	195	LEU
5	2F	33	LEU
5	2F	70	THR
5	2F	74	ARG
5	2F	88	VAL
5	2F	106	ARG
5	2F	120	GLU
5	2F	132	VAL
5	2F	158	THR
5	2F	170	LEU
5	2F	183	VAL
5	2F	192	LEU
5	2F	201	VAL
6	2G	3	LEU
6	2G	5	VAL
6	2G	43	LEU
6	2G	79	ASN
6	2G	133	LEU
6	2G	135	LEU
6	2G	159	VAL
6	2G	161	THR
6	2G	175	LEU

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Mol	Chain	Res	Type
7	2H	71	LEU
7	2H	76	VAL
7	2H	88	LEU
7	2H	89	ILE
8	2I	38	LEU
8	2I	92	VAL
8	2I	123	LEU
8	2I	127	VAL
8	2I	142	VAL
9	2N	28	THR
9	2N	62	VAL
9	2N	99	LEU
9	2N	140	VAL
10	2O	10	VAL
10	2O	108	GLU
11	2P	95	VAL
11	2P	99	LEU
11	2P	125	VAL
12	2Q	1	MET
12	2Q	21	THR
12	2Q	35	VAL
12	2Q	75	THR
12	2Q	110	THR
13	2R	24	GLN
13	2R	29	LEU
13	2R	44	LEU
13	2R	65	LEU
13	2R	100	LEU
13	2R	111	LEU
14	2S	38	GLN
14	2S	69	VAL
15	2T	28	VAL
15	2T	96	ARG
15	2T	108	ARG
16	2U	95	LEU
17	2V	1	MET
17	2V	51	VAL
17	2V	61	VAL
17	2V	62	LEU
17	2V	72	VAL
17	2V	79	VAL
17	2V	82	ARG

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Mol	Chain	Res	Type
18	2W	17	VAL
18	2W	23	LEU
18	2W	67	ASP
18	2W	100	THR
18	2W	107	LEU
20	2Y	72	VAL
20	2Y	97	ARG
21	2Z	33	LEU
21	2Z	42	VAL
21	2Z	126	VAL
21	2Z	145	GLU
21	2Z	154	ASP
23	21	21	ARG
25	23	54	VAL
26	24	50	VAL
27	25	6	VAL
27	25	16	ARG
27	25	29	THR
28	26	48	VAL
29	27	39	ARG
29	27	43	THR
30	28	14	VAL
30	28	32	LEU
30	28	41	ILE
33	2b	11	LEU
33	2b	94	ASN
33	2b	127	ILE
33	2b	189	ASP
33	2b	208	ILE
34	2c	70	VAL
34	2c	124	ILE
35	2d	31	CYS
35	2d	59	ARG
35	2d	108	LEU
35	2d	112	VAL
35	2d	135	LEU
35	2d	170	VAL
35	2d	178	VAL
36	2e	12	LEU
36	2e	13	ILE
36	2e	41	VAL
37	2f	69	GLU

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Mol	Chain	Res	Type
37	2f	72	VAL
37	2f	81	ILE
38	2g	30	ILE
38	2g	52	GLU
39	2h	23	SER
40	2i	27	THR
40	2i	64	THR
40	2i	65	VAL
40	2i	108	VAL
41	2j	49	VAL
41	2j	72	VAL
42	2k	114	VAL
43	2l	55	VAL
43	2l	83	VAL
44	2m	19	LEU
44	2m	47	ASP
45	2n	22	THR
45	2n	33	VAL
45	2n	44	LEU
47	2p	2	VAL
47	2p	20	VAL
47	2p	21	VAL
48	2q	35	VAL
48	2q	83	ASP
49	2r	37	VAL
50	2s	12	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (119) such sidechains are listed below:

Mol	Chain	Res	Type
4	1E	48	GLN
4	1E	143	ASN
5	1F	40	GLN
5	1F	69	HIS
6	1G	40	ASN
6	1G	79	ASN
8	1I	11	ASN
8	1I	105	HIS
8	1I	139	GLN
9	1N	69	GLN
10	1O	3	GLN
11	1P	35	HIS

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Mol	Chain	Res	Type
12	1Q	123	HIS
13	1R	13	HIS
13	1R	31	HIS
13	1R	91	GLN
15	1T	90	GLN
16	1U	81	HIS
18	1W	60	ASN
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS
20	1Y	43	ASN
21	1Z	32	HIS
21	1Z	73	GLN
21	1Z	75	ASN
23	11	56	GLN
26	14	47	GLN
27	15	4	HIS
30	18	35	GLN
33	1b	40	HIS
33	1b	78	GLN
33	1b	140	HIS
34	1c	6	HIS
34	1c	162	GLN
34	1c	176	HIS
35	1d	77	ASN
35	1d	116	GLN
35	1d	125	HIS
36	1e	78	HIS
37	1f	73	ASN
37	1f	84	ASN
37	1f	100	ASN
38	1g	28	ASN
38	1g	96	GLN
38	1g	148	ASN
39	1h	82	HIS
40	1i	23	ASN
40	1i	58	HIS
40	1i	124	GLN
42	1k	116	HIS
43	1l	99	HIS
46	1o	50	HIS
48	1q	26	GLN

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Mol	Chain	Res	Type
49	1r	63	GLN
50	1s	23	ASN
50	1s	69	HIS
50	1s	83	HIS
51	1t	42	GLN
51	1t	90	GLN
4	2E	180	ASN
5	2F	40	GLN
5	2F	69	HIS
5	2F	133	ASN
6	2G	132	ASN
7	2H	111	HIS
8	2I	11	ASN
8	2I	105	HIS
8	2I	139	GLN
9	2N	69	GLN
9	2N	94	HIS
12	2Q	12	GLN
12	2Q	13	GLN
12	2Q	57	HIS
12	2Q	123	HIS
13	2R	13	HIS
14	2S	38	GLN
17	2V	64	HIS
18	2W	60	ASN
19	2X	31	HIS
19	2X	82	GLN
20	2Y	6	HIS
21	2Z	55	HIS
21	2Z	65	GLN
21	2Z	73	GLN
23	21	56	GLN
26	24	60	GLN
30	28	35	GLN
33	2b	19	HIS
33	2b	40	HIS
33	2b	78	GLN
33	2b	94	ASN
33	2b	95	GLN
33	2b	146	GLN
33	2b	212	GLN
34	2c	98	ASN

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Mol	Chain	Res	Type
34	2c	162	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	125	HIS
36	2e	78	HIS
36	2e	130	ASN
37	2f	73	ASN
37	2f	100	ASN
38	2g	28	ASN
40	2i	3	GLN
40	2i	31	GLN
40	2i	58	HIS
40	2i	89	ASN
40	2i	124	GLN
42	2k	22	HIS
43	2l	99	HIS
46	2o	28	GLN
47	2p	16	HIS
49	2r	63	GLN
50	2s	47	HIS
50	2s	69	HIS
50	2s	83	HIS
51	2t	75	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	427 (14%)	30 (1%)
1	2A	2791/2915 (95%)	456 (16%)	22 (0%)
2	1B	120/121 (99%)	11 (9%)	1 (0%)
2	2B	118/121 (97%)	22 (18%)	0
32	1a	1497/1521 (98%)	217 (14%)	0
32	2a	1501/1521 (98%)	240 (15%)	0
53	1v	12/24 (50%)	2 (16%)	0
53	2v	12/24 (50%)	2 (16%)	0
54	1w	72/76 (94%)	21 (29%)	0
54	1y	72/76 (94%)	20 (27%)	0
54	2w	69/76 (90%)	18 (26%)	0
54	2y	70/76 (92%)	23 (32%)	0
55	1x	75/77 (97%)	12 (16%)	0
55	2x	75/77 (97%)	12 (16%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
All	All	9348/9620 (97%)	1483 (15%)	53 (0%)

All (1483) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	17	G
1	1A	34	C
1	1A	45	C
1	1A	70	A
1	1A	71	U
1	1A	73	A
1	1A	74	G
1	1A	83	A
1	1A	94	G
1	1A	116	A
1	1A	117	A
1	1A	118	U
1	1A	123	G
1	1A	185	A
1	1A	186	A
1	1A	188	A
1	1A	194	G
1	1A	203	G
1	1A	204	G
1	1A	205	A
1	1A	211	A
1	1A	214	A
1	1A	217	A
1	1A	218	A
1	1A	222	A
1	1A	237	G
1	1A	250	G
1	1A	271	U
1	1A	272	U
1	1A	273	G
1	1A	274	U
1	1A	275	C
1	1A	288	U
1	1A	289	G
1	1A	303	C
1	1A	335	A

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Mol	Chain	Res	Type
1	1A	353	G
1	1A	354	A
1	1A	370	A
1	1A	376	G
1	1A	387	G
1	1A	388	A
1	1A	389	G
1	1A	399	G
1	1A	413	G
1	1A	423	G
1	1A	432	U
1	1A	438	G
1	1A	455	A
1	1A	470	C
1	1A	474	U
1	1A	480	A
1	1A	482	C
1	1A	483	A
1	1A	507	G
1	1A	526	A
1	1A	529	U
1	1A	530	A
1	1A	534	C
1	1A	537	G
1	1A	555	G
1	1A	556	C
1	1A	557	A
1	1A	558	G
1	1A	569	G
1	1A	573	G
1	1A	586	G
1	1A	596	G
1	1A	598	A
1	1A	615	G
1	1A	618	C
1	1A	626	A
1	1A	627	G
1	1A	630	U
1	1A	639	G
1	1A	640	A
1	1A	641	G
1	1A	648	G

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Mol	Chain	Res	Type
1	1A	652	A
1	1A	662	A
1	1A	671	A
1	1A	693	G
1	1A	697	C
1	1A	716	G
1	1A	733	G
1	1A	764	G
1	1A	777	C
1	1A	811	A
1	1A	822	G
1	1A	823	G
1	1A	829	A
1	1A	831	A
1	1A	832	G
1	1A	837	C
1	1A	839	G
1	1A	852	G
1	1A	858	U
1	1A	859	C
1	1A	866	A
1	1A	874	U
1	1A	875	U
1	1A	906	G
1	1A	913	A
1	1A	926	G
1	1A	927	G
1	1A	931	C
1	1A	932	C
1	1A	933	C
1	1A	934	A
1	1A	935	C
1	1A	936	C
1	1A	937	A
1	1A	938	G
1	1A	941	U
1	1A	942	A
1	1A	943	C
1	1A	944	C
1	1A	956	A
1	1A	977	G
1	1A	990	A

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Mol	Chain	Res	Type
1	1A	991	G
1	1A	1004	A
1	1A	1006	C
1	1A	1008	U
1	1A	1019	G
1	1A	1020	C
1	1A	1029	A
1	1A	1042	A
1	1A	1058	U
1	1A	1059	C
1	1A	1063	G
1	1A	1068	G
1	1A	1071	G
1	1A	1072	U
1	1A	1073	A
1	1A	1079	U
1	1A	1084	C
1	1A	1087	C
1	1A	1091	A
1	1A	1092	A
1	1A	1093	G
1	1A	1094	A
1	1A	1100	A
1	1A	1101	G
1	1A	1103	A
1	1A	1104	G
1	1A	1112	U
1	1A	1114	G
1	1A	1117	G
1	1A	1119	A
1	1A	1120	G
1	1A	1121	C
1	1A	1122	C
1	1A	1124	U
1	1A	1125	C
1	1A	1127	U
1	1A	1130	A
1	1A	1132	A
1	1A	1134	A
1	1A	1135	G
1	1A	1136	U
1	1A	1137	G

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Mol	Chain	Res	Type
1	1A	1139	G
1	1A	1140	U
1	1A	1142	A
1	1A	1144	A
1	1A	1146	C
1	1A	1147	U
1	1A	1149	A
1	1A	1153	G
1	1A	1156	G
1	1A	1157	A
1	1A	1158	G
1	1A	1161	G
1	1A	1162	C
1	1A	1174	A
1	1A	1176	U
1	1A	1180	C
1	1A	1181	G
1	1A	1201	A
1	1A	1216	G
1	1A	1218	G
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1222	A
1	1A	1223	C
1	1A	1256	U
1	1A	1263	C
1	1A	1282	G
1	1A	1296	G
1	1A	1299	A
1	1A	1302	G
1	1A	1317	G
1	1A	1318	A
1	1A	1319	U
1	1A	1346	U
1	1A	1347	A
1	1A	1349	G
1	1A	1398	U
1	1A	1405	A
1	1A	1406	A
1	1A	1411	A
1	1A	1416	C

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Mol	Chain	Res	Type
1	1A	1426	G
1	1A	1430	A
1	1A	1431	G
1	1A	1432	C
1	1A	1462	G
1	1A	1463	C
1	1A	1465	A
1	1A	1466	U
1	1A	1467	G
1	1A	1474	C
1	1A	1491	A
1	1A	1497	G
1	1A	1502	G
1	1A	1514	C
1	1A	1529	G
1	1A	1539	C
1	1A	1540	A
1	1A	1555	C
1	1A	1556	A
1	1A	1605	A
1	1A	1613	A
1	1A	1616	A
1	1A	1625	U
1	1A	1627	A
1	1A	1631	C
1	1A	1632	A
1	1A	1654	A
1	1A	1655	A
1	1A	1656	A
1	1A	1694	G
1	1A	1695	C
1	1A	1701	A
1	1A	1711	A
1	1A	1721	G
1	1A	1743	G
1	1A	1747	A
1	1A	1748	A
1	1A	1767	A
1	1A	1768	U
1	1A	1787	G
1	1A	1793	A
1	1A	1794	G

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Mol	Chain	Res	Type
1	1A	1795	G
1	1A	1804	A
1	1A	1811	A
1	1A	1813	C
1	1A	1817	A
1	1A	1822	A
1	1A	1831	C
1	1A	1832	G
1	1A	1847	G
1	1A	1860	A
1	1A	1870	G
1	1A	1878	A
1	1A	1879	A
1	1A	1899	A
1	1A	1900	G
1	1A	1911	A
1	1A	1922	A
1	1A	1928	G
1	1A	1951	G
1	1A	1952	G
1	1A	1959	A
1	1A	1960	A
1	1A	1977	U
1	1A	1984	5MC
1	1A	1985	U
1	1A	1989	C
1	1A	1992	A
1	1A	1993	A
1	1A	1994	A
1	1A	2003	A
1	1A	2014	G
1	1A	2015	U
1	1A	2019	G
1	1A	2045	G
1	1A	2053	A
1	1A	2054	G
1	1A	2055	A
1	1A	2061	C
1	1A	2065	C
1	1A	2077	C
1	1A	2078	G
1	1A	2082	A

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Mol	Chain	Res	Type
1	1A	2083	G
1	1A	2084	A
1	1A	2091	G
1	1A	2132	G
1	1A	2134	G
1	1A	2135	U
1	1A	2136	A
1	1A	2141	A
1	1A	2143	G
1	1A	2148	A
1	1A	2149	G
1	1A	2151	C
1	1A	2152	U
1	1A	2153	G
1	1A	2154	U
1	1A	2155	G
1	1A	2156	A
1	1A	2157	A
1	1A	2158	C
1	1A	2162	C
1	1A	2164	C
1	1A	2165	C
1	1A	2166	U
1	1A	2168	C
1	1A	2169	G
1	1A	2170	G
1	1A	2172	U
1	1A	2173	G
1	1A	2177	G
1	1A	2178	G
1	1A	2179	G
1	1A	2180	A
1	1A	2181	G
1	1A	2184	G
1	1A	2187	G
1	1A	2188	G
1	1A	2190	G
1	1A	2193	A
1	1A	2194	U
1	1A	2200	C
1	1A	2203	G
1	1A	2204	G

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Mol	Chain	Res	Type
1	1A	2206	G
1	1A	2214	G
1	1A	2220	A
1	1A	2227	G
1	1A	2228	G
1	1A	2229	A
1	1A	2230	U
1	1A	2237	A
1	1A	2247	G
1	1A	2250	G
1	1A	2251	G
1	1A	2280	A
1	1A	2281	A
1	1A	2285	A
1	1A	2292	G
1	1A	2295	C
1	1A	2299	A
1	1A	2317	A
1	1A	2320	G
1	1A	2332	A
1	1A	2337	G
1	1A	2346	G
1	1A	2348	A
1	1A	2359	C
1	1A	2366	G
1	1A	2373	A
1	1A	2395	G
1	1A	2397	C
1	1A	2418	U
1	1A	2437	A
1	1A	2441	G
1	1A	2442	A
1	1A	2443	U
1	1A	2446	A
1	1A	2447	A
1	1A	2451	A
1	1A	2453	C
1	1A	2460	A
1	1A	2486	C
1	1A	2488	A
1	1A	2490	A
1	1A	2514	G

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Mol	Chain	Res	Type
1	1A	2517	G
1	1A	2518	U
1	1A	2530	A
1	1A	2541	G
1	1A	2547	G
1	1A	2561	G
1	1A	2566	U
1	1A	2578	A
1	1A	2579	G
1	1A	2585	C
1	1A	2586	G
1	1A	2594	G
1	1A	2614	A
1	1A	2621	U
1	1A	2623	U
1	1A	2624	C
1	1A	2641	A
1	1A	2642	G
1	1A	2666	A
1	1A	2691	A
1	1A	2701	U
1	1A	2702	C
1	1A	2703	C
1	1A	2714	U
1	1A	2715	C
1	1A	2719	G
1	1A	2725	A
1	1A	2726	A
1	1A	2727	G
1	1A	2739	U
1	1A	2745	G
1	1A	2746	A
1	1A	2757	G
1	1A	2770	A
1	1A	2771	A
1	1A	2777	A
1	1A	2778	A
1	1A	2779	G
1	1A	2791	A
1	1A	2803	A
1	1A	2804	C
1	1A	2806	G

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Mol	Chain	Res	Type
1	1A	2813	G
1	1A	2814	C
1	1A	2818	U
1	1A	2830	A
1	1A	2831	A
1	1A	2843	G
1	1A	2845	A
1	1A	2882	G
1	1A	2890	C
1	1A	2901	A
1	1A	2903	G
1	1A	2904	U
2	1B	2	C
2	1B	9	G
2	1B	13	A
2	1B	30	C
2	1B	35	U
2	1B	42	C
2	1B	52	A
2	1B	56	G
2	1B	67	G
2	1B	73	A
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	32	A
32	1a	39	G
32	1a	47	C
32	1a	48	C
32	1a	51	A
32	1a	54	C
32	1a	61	G
32	1a	65	U
32	1a	79	G
32	1a	91	C
32	1a	98	G
32	1a	101	A
32	1a	116	A
32	1a	120	A
32	1a	121	C
32	1a	131	C
32	1a	163	C

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Mol	Chain	Res	Type
32	1a	174	C
32	1a	182	U
32	1a	189(D)	C
32	1a	189(G)	G
32	1a	189(H)	G
32	1a	195	A
32	1a	197	A
32	1a	201	C
32	1a	202	U
32	1a	203	U
32	1a	204	U
32	1a	216	G
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	301	G
32	1a	321	A
32	1a	328	C
32	1a	332	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	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	421	U
32	1a	424	G
32	1a	429	U
32	1a	439	A
32	1a	442	C
32	1a	452	A
32	1a	461	A
32	1a	470	C
32	1a	485	G

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Mol	Chain	Res	Type
32	1a	496	A
32	1a	498	U
32	1a	505	G
32	1a	509	A
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	531	U
32	1a	532	A
32	1a	533	A
32	1a	547	A
32	1a	559	A
32	1a	561	U
32	1a	562	C
32	1a	564	C
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	576	G
32	1a	577	G
32	1a	596	C
32	1a	607	A
32	1a	630	G
32	1a	631	G
32	1a	653	A
32	1a	665	A
32	1a	671	G
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	703	G
32	1a	723	U
32	1a	731	G
32	1a	749	C
32	1a	755	G
32	1a	766	A
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	816	A
32	1a	817	C

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Mol	Chain	Res	Type
32	1a	821	G
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	853	G
32	1a	859	A
32	1a	870	U
32	1a	874	G
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
32	1a	932	C
32	1a	934	C
32	1a	935	A
32	1a	960	U
32	1a	961	U
32	1a	967	5MC
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	972	C
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	982	U
32	1a	992	U
32	1a	993	G
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	1011	G
32	1a	1020	U
32	1a	1022	G
32	1a	1024	G
32	1a	1025	U
32	1a	1026	G

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Mol	Chain	Res	Type
32	1a	1027	C
32	1a	1029	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1039	C
32	1a	1044	A
32	1a	1054	C
32	1a	1068	G
32	1a	1081	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	1133	G
32	1a	1134	G
32	1a	1137	C
32	1a	1139	G
32	1a	1140	C
32	1a	1141	C
32	1a	1146	A
32	1a	1152	A
32	1a	1159	U
32	1a	1172	C
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1260	C
32	1a	1270	C
32	1a	1275	A
32	1a	1278	U

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Mol	Chain	Res	Type
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	1322	C
32	1a	1338	G
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1370	G
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1446	U
32	1a	1447	A
32	1a	1452	C
32	1a	1492	A
32	1a	1494	G
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
32	1a	1532	U
53	1v	13	A
53	1v	14	A
54	1w	2	C
54	1w	3	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	24	G
54	1w	45	U

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Mol	Chain	Res	Type
54	1w	46	7MG
54	1w	47	U
54	1w	48	C
54	1w	50	U
54	1w	62	C
54	1w	64	A
54	1w	67	C
54	1w	68	C
54	1w	70	G
54	1w	73	A
54	1w	74	C
55	1x	6	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	49	G
55	1x	61	C
55	1x	64	G
55	1x	69	C
55	1x	76	A
54	1y	5	G
54	1y	6	G
54	1y	8	4SU
54	1y	13	C
54	1y	19	G
54	1y	20	U
54	1y	21	A
54	1y	35	A
54	1y	44	G
54	1y	45	U
54	1y	46	7MG
54	1y	47	U
54	1y	48	C
54	1y	54	5MU
54	1y	56	C
54	1y	59	U
54	1y	61	C
54	1y	64	A
54	1y	65	G

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Mol	Chain	Res	Type
54	1y	70	G
1	2A	11	G
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	36	G
1	2A	45	C
1	2A	61	G
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	78	A
1	2A	84	A
1	2A	90	U
1	2A	95	G
1	2A	100	G
1	2A	102	G
1	2A	104	U
1	2A	118	A
1	2A	120	U
1	2A	154(A)	C
1	2A	157	U
1	2A	172	C
1	2A	181	A
1	2A	196	A
1	2A	199	A
1	2A	204	A
1	2A	205	G
1	2A	215	G
1	2A	216	A
1	2A	221	A
1	2A	222	A
1	2A	228	A
1	2A	229	A
1	2A	233	A
1	2A	248	G
1	2A	249	C
1	2A	250	G
1	2A	266	G
1	2A	267	C
1	2A	271(K)	U
1	2A	271(L)	U

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Mol	Chain	Res	Type
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	272(B)	G
1	2A	274	G
1	2A	277	C
1	2A	278	A
1	2A	279	C
1	2A	294	A
1	2A	311	A
1	2A	312	G
1	2A	317	G
1	2A	323	G
1	2A	329	G
1	2A	330	A
1	2A	338	G
1	2A	342	G
1	2A	352	G
1	2A	362	U
1	2A	363	G
1	2A	363(B)	G
1	2A	386	G
1	2A	396	G
1	2A	406	G
1	2A	411	G
1	2A	412	A
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	481	G
1	2A	498	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	533	G

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Mol	Chain	Res	Type
1	2A	551	G
1	2A	563	G
1	2A	568	U
1	2A	573	G
1	2A	575	A
1	2A	588	U
1	2A	599	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(A)	U
1	2A	614(B)	G
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
1	2A	669	G
1	2A	686	G
1	2A	717	G
1	2A	726	G
1	2A	730	C
1	2A	752	A
1	2A	753	C
1	2A	775	G
1	2A	776	G
1	2A	782	A
1	2A	783	A
1	2A	784	A
1	2A	785	G
1	2A	790	C
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	857	C
1	2A	859	G
1	2A	866	A

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Mol	Chain	Res	Type
1	2A	869	G
1	2A	874	G
1	2A	877	U
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
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	910	A
1	2A	915	C
1	2A	917	A
1	2A	932	G
1	2A	938	G
1	2A	941	A
1	2A	945	A
1	2A	946	G
1	2A	953	A
1	2A	958	U
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	1012	U
1	2A	1013	C
1	2A	1017	G
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U
1	2A	1033	U
1	2A	1038	C

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Mol	Chain	Res	Type
1	2A	1039	G
1	2A	1041	C
1	2A	1043	C
1	2A	1113	U
1	2A	1116	C
1	2A	1119	C
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1143	A
1	2A	1144	G
1	2A	1152	C
1	2A	1169	G
1	2A	1171	G
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1237	A
1	2A	1247	A
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	1313	U
1	2A	1314	C
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	1373	A
1	2A	1378	A
1	2A	1379	A
1	2A	1384	A
1	2A	1385	G
1	2A	1386	C
1	2A	1411	C

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Mol	Chain	Res	Type
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U
1	2A	1421	G
1	2A	1427	A
1	2A	1428	C
1	2A	1436	G
1	2A	1437	C
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G
1	2A	1455	G
1	2A	1460	A
1	2A	1461	G
1	2A	1467	C
1	2A	1471	A
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1514	U
1	2A	1531	C
1	2A	1532	C
1	2A	1547	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1582	C
1	2A	1584	C
1	2A	1586	A
1	2A	1608	A
1	2A	1609	A
1	2A	1610	A
1	2A	1640	C
1	2A	1648	C
1	2A	1654	A
1	2A	1664	A
1	2A	1674	G

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Mol	Chain	Res	Type
1	2A	1696	G
1	2A	1700	A
1	2A	1701	A
1	2A	1703	G
1	2A	1722	A
1	2A	1746	G
1	2A	1756	G
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1816	G
1	2A	1829	A
1	2A	1835	G
1	2A	1847	A
1	2A	1848	A
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	1955	U
1	2A	1963	U
1	2A	1965	C
1	2A	1966	A
1	2A	1967	C
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1993	U
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2032	G

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Mol	Chain	Res	Type
1	2A	2033	A
1	2A	2036	C
1	2A	2043	C
1	2A	2055	C
1	2A	2056	G
1	2A	2060	A
1	2A	2061	G
1	2A	2062	A
1	2A	2069	G
1	2A	2096	U
1	2A	2099	U
1	2A	2107	C
1	2A	2108	C
1	2A	2110	G
1	2A	2111	C
1	2A	2116	G
1	2A	2119	A
1	2A	2120	G
1	2A	2122	U
1	2A	2124	G
1	2A	2126	A
1	2A	2127	G
1	2A	2129	C
1	2A	2131	G
1	2A	2132	U
1	2A	2134	A
1	2A	2135	A
1	2A	2137	C
1	2A	2138	C
1	2A	2140	C
1	2A	2141	G
1	2A	2143	C
1	2A	2146	C
1	2A	2150	U
1	2A	2151	G
1	2A	2153	G
1	2A	2155	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A
1	2A	2161	C
1	2A	2162	G

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Mol	Chain	Res	Type
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2172	U
1	2A	2174	C
1	2A	2178	C
1	2A	2185	C
1	2A	2189	U
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	2275	C
1	2A	2278	A
1	2A	2283	C
1	2A	2287	A
1	2A	2288	A
1	2A	2305	A
1	2A	2308	G
1	2A	2309	A
1	2A	2312	U
1	2A	2320	A
1	2A	2322	A
1	2A	2325	G
1	2A	2334	G
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	2388	A
1	2A	2402	C
1	2A	2403	C
1	2A	2406	U

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Mol	Chain	Res	Type
1	2A	2410	G
1	2A	2424	C
1	2A	2425	A
1	2A	2428	G
1	2A	2429	G
1	2A	2430	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2445	G
1	2A	2448	A
1	2A	2468	G
1	2A	2469	A
1	2A	2476	A
1	2A	2478	A
1	2A	2490	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
1	2A	2520	C
1	2A	2525	G
1	2A	2529	G
1	2A	2554	U
1	2A	2555	U
1	2A	2562	U
1	2A	2566	A
1	2A	2567	G
1	2A	2573	C
1	2A	2578	G
1	2A	2582	G
1	2A	2602	A
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2638	G
1	2A	2646	C
1	2A	2654	A
1	2A	2689	U

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Mol	Chain	Res	Type
1	2A	2690	C
1	2A	2691	C
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2718	G
1	2A	2726	U
1	2A	2733	A
1	2A	2739	U
1	2A	2750	A
1	2A	2751	G
1	2A	2757	A
1	2A	2758	A
1	2A	2759	G
1	2A	2761	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2793	G
1	2A	2794	C
1	2A	2802	G
1	2A	2803	C
1	2A	2807	G
1	2A	2808	U
1	2A	2820	A
1	2A	2821	A
1	2A	2833	G
1	2A	2835	A
1	2A	2872	G
1	2A	2879	C
1	2A	2880	C
1	2A	2889	C
1	2A	2892	A
1	2A	2894	G
1	2A	2897	U
2	2B	2	C
2	2B	5	C
2	2B	12	C
2	2B	13	A
2	2B	19	G

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Mol	Chain	Res	Type
2	2B	20	C
2	2B	24	G
2	2B	34	U
2	2B	42	C
2	2B	53	A
2	2B	56	G
2	2B	66	A
2	2B	67	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	85	G
2	2B	91	C
2	2B	106	G
2	2B	108	U
2	2B	110	G
2	2B	120	A
32	2a	7	G
32	2a	8	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	51	A
32	2a	66	G
32	2a	73	G
32	2a	88	A
32	2a	89	C
32	2a	98	G
32	2a	101	A
32	2a	116	A
32	2a	121	C
32	2a	129(A)	G
32	2a	131	C
32	2a	163	C
32	2a	174	C
32	2a	182	U
32	2a	189(J)	G
32	2a	195	A
32	2a	197	A

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Mol	Chain	Res	Type
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G
32	2a	267	C
32	2a	289	G
32	2a	301	G
32	2a	316	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	367	U
32	2a	372	C
32	2a	373	A
32	2a	397	A
32	2a	398	C
32	2a	406	G
32	2a	412	A
32	2a	424	G
32	2a	429	U
32	2a	442	C
32	2a	452	A
32	2a	461	A
32	2a	470	C
32	2a	484	G
32	2a	485	G
32	2a	496	A
32	2a	498	U
32	2a	505	G
32	2a	509	A
32	2a	510	A
32	2a	511	C
32	2a	518	C
32	2a	521	G

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Mol	Chain	Res	Type
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	547	A
32	2a	559	A
32	2a	561	U
32	2a	564	C
32	2a	572	A
32	2a	573	A
32	2a	574	A
32	2a	576	G
32	2a	577	G
32	2a	596	C
32	2a	630	G
32	2a	653	A
32	2a	665	A
32	2a	671	G
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	703	G
32	2a	723	U
32	2a	724	G
32	2a	731	G
32	2a	749	C
32	2a	755	G
32	2a	774	G
32	2a	777	A
32	2a	787	A
32	2a	790	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	834	C
32	2a	840	C
32	2a	841	U
32	2a	851	G
32	2a	853	G
32	2a	859	A

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Mol	Chain	Res	Type
32	2a	873	A
32	2a	885	G
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	932	C
32	2a	934	C
32	2a	935	A
32	2a	960	U
32	2a	961	U
32	2a	966	M2G
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	982	U
32	2a	992	U
32	2a	993	G
32	2a	997	U
32	2a	999	C
32	2a	1001(A)	G
32	2a	1002	G
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1020	U
32	2a	1021	G
32	2a	1022	G
32	2a	1023	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1029	C
32	2a	1030(A)	G
32	2a	1031	G
32	2a	1033	G
32	2a	1035	A

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Mol	Chain	Res	Type
32	2a	1036	G
32	2a	1039	C
32	2a	1040	U
32	2a	1054	C
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1081	G
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1117	G
32	2a	1122	U
32	2a	1125	U
32	2a	1129	C
32	2a	1131	G
32	2a	1132	C
32	2a	1133	G
32	2a	1134	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	1152	A
32	2a	1157	A
32	2a	1159	U
32	2a	1172	C
32	2a	1173	G
32	2a	1174	G
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1202	G
32	2a	1211	U
32	2a	1212	U
32	2a	1213	A
32	2a	1214	C
32	2a	1226	C

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Mol	Chain	Res	Type
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1246	C
32	2a	1256	A
32	2a	1257	U
32	2a	1258	G
32	2a	1260	C
32	2a	1270	C
32	2a	1275	A
32	2a	1277	C
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1287	A
32	2a	1299	A
32	2a	1302	U
32	2a	1303	C
32	2a	1305	G
32	2a	1320	C
32	2a	1340	A
32	2a	1346	A
32	2a	1347	G
32	2a	1353	G
32	2a	1363	C
32	2a	1370	G
32	2a	1379	G
32	2a	1398	A
32	2a	1400	5MC
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1446	U
32	2a	1447	A
32	2a	1452	C
32	2a	1492	A
32	2a	1494	G
32	2a	1499	A
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1517	G

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Mol	Chain	Res	Type
32	2a	1519	MA6
32	2a	1520	G
32	2a	1529	G
32	2a	1530	G
32	2a	1532	U
53	2v	13	A
53	2v	14	A
54	2w	3	C
54	2w	4	C
54	2w	7	A
54	2w	8	4SU
54	2w	13	C
54	2w	19	G
54	2w	22	G
54	2w	25	C
54	2w	34	G
54	2w	46	7MG
54	2w	48	C
54	2w	59	U
54	2w	62	C
54	2w	64	A
54	2w	65	G
54	2w	68	C
54	2w	69	G
54	2w	74	C
55	2x	9	G
55	2x	13	C
55	2x	18	G
55	2x	20	U
55	2x	21	A
55	2x	46	G
55	2x	47	U
55	2x	48	C
55	2x	56	C
55	2x	67	C
55	2x	68	C
55	2x	76	A
54	2y	15	G
54	2y	19	G
54	2y	23	A
54	2y	30	G
54	2y	34	G

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Mol	Chain	Res	Type
54	2y	37	MIA
54	2y	45	U
54	2y	46	7MG
54	2y	49	C
54	2y	52	G
54	2y	53	G
54	2y	55	PSU
54	2y	56	C
54	2y	57	G
54	2y	58	A
54	2y	59	U
54	2y	60	U
54	2y	61	C
54	2y	65	G
54	2y	67	C
54	2y	69	G
54	2y	70	G
54	2y	73	A

All (53) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	115	G
1	1A	185	A
1	1A	271	U
1	1A	302	A
1	1A	509	A
1	1A	572	A
1	1A	732	A
1	1A	811	A
1	1A	913	A
1	1A	941	U
1	1A	1067	A
1	1A	1093	G
1	1A	1136	U
1	1A	1143	U
1	1A	1201	A
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1255	A
1	1A	1425	A

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Mol	Chain	Res	Type
1	1A	1554	A
1	1A	1700	G
1	1A	2014	G
1	1A	2156	A
1	1A	2203	G
1	1A	2205	C
1	1A	2442	A
1	1A	2641	A
1	1A	2701	U
1	1A	2769	U
2	1B	1	U
1	2A	196	A
1	2A	228	A
1	2A	266	G
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	1210	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G
1	2A	2119	A
1	2A	2126	A
1	2A	2406	U
1	2A	2689	U
1	2A	2756	U

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

84 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	$\# Z > 2$
55	4SU	1x	8	55	18,21,22	2.25	5 (27%)	25,30,33	1.53	6 (24%)
1	5MC	2A	1962	1,56	19,22,23	1.59	3 (15%)	26,32,35	1.29	4 (15%)
32	M2G	2a	966	32	24,27,28	1.27	4 (16%)	33,40,43	1.91	6 (18%)
1	4OC	2A	1920	1	19,22,24	0.79	0	25,31,35	0.81	0
1	OMG	2A	2251	55,1,56	23,26,27	1.23	3 (13%)	32,38,41	2.01	7 (21%)
54	PSU	1y	55	54	18,21,22	1.39	2 (11%)	21,30,33	1.95	3 (14%)
54	5MU	1w	54	54	19,22,23	1.36	5 (26%)	27,32,35	1.97	7 (25%)
43	0TD	1l	92	43	8,9,10	4.77	2 (25%)	6,11,13	2.45	2 (33%)
1	5MU	2A	1939	1,56	19,22,23	1.31	4 (21%)	27,32,35	2.21	6 (22%)
1	PSU	1A	1939	1	18,21,22	1.39	2 (11%)	21,30,33	2.08	4 (19%)
54	PSU	1w	32	54	18,21,22	1.36	2 (11%)	21,30,33	1.87	3 (14%)
32	MA6	1a	1518	32	23,26,27	1.56	4 (17%)	33,38,41	2.25	13 (39%)
32	UR3	1a	1498	32	19,22,23	0.99	1 (5%)	26,32,35	1.84	4 (15%)
54	5MU	2w	54	54	19,22,23	1.36	4 (21%)	27,32,35	2.03	7 (25%)
32	2MG	2a	1207	56,32	23,26,27	1.22	4 (17%)	33,38,41	2.24	8 (24%)
54	PSU	1y	39	54	18,21,22	1.39	2 (11%)	21,30,33	1.84	3 (14%)
54	MIA	2w	37	54	24,27,32	2.08	5 (20%)	32,39,47	2.45	12 (37%)
1	PSU	2A	2605	1	18,21,22	1.45	3 (16%)	21,30,33	2.07	4 (19%)
32	5MC	2a	1407	56,32	19,22,23	1.61	3 (15%)	26,32,35	1.18	2 (7%)
32	7MG	2a	527	56,32	23,26,27	1.32	4 (17%)	27,39,42	2.62	6 (22%)
55	5MC	2x	32	55	19,22,23	1.59	2 (10%)	26,32,35	1.13	3 (11%)
1	5MC	2A	1942	1	19,22,23	1.71	3 (15%)	26,32,35	1.15	3 (11%)
1	5MC	1A	1964	1	19,22,23	1.52	3 (15%)	26,32,35	1.23	3 (11%)
32	MA6	1a	1519	32	23,26,27	1.54	4 (17%)	33,38,41	2.28	13 (39%)
54	PSU	1w	39	54	18,21,22	1.34	2 (11%)	21,30,33	2.15	4 (19%)
55	5MC	1x	32	55	19,22,23	1.52	3 (15%)	26,32,35	1.14	3 (11%)
1	2MA	2A	2503	1,56	22,25,26	1.44	5 (22%)	32,37,40	2.33	8 (25%)
1	OMG	1A	2263	55,1,56	23,26,27	1.21	3 (13%)	32,38,41	2.01	6 (18%)
54	MIA	2y	37	54	21,24,32	1.65	4 (19%)	30,35,47	2.07	8 (26%)
1	5MU	1A	1937	1	19,22,23	1.42	5 (26%)	27,32,35	2.19	7 (25%)
43	0TD	2l	92	43	8,9,10	4.65	1 (12%)	6,11,13	4.44	3 (50%)
54	7MG	1y	46	54	23,26,27	1.39	3 (13%)	27,39,42	2.70	6 (22%)
1	2MA	1A	2515	1,56	22,25,26	1.41	5 (22%)	32,37,40	2.34	9 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	PSU	1a	516	32	18,21,22	1.40	3 (16%)	21,30,33	2.11	5 (23%)
1	2MU	2A	2552	1,56	19,22,24	1.29	2 (10%)	25,31,36	1.72	6 (24%)
32	5MC	2a	967	32	19,22,23	1.76	3 (15%)	26,32,35	1.12	2 (7%)
32	5MC	1a	1407	32	19,22,23	1.41	3 (15%)	26,32,35	1.15	2 (7%)
1	5MU	2A	1915	1	19,22,23	1.44	6 (31%)	27,32,35	2.06	5 (18%)
32	7MG	1a	527	32	23,26,27	1.37	3 (13%)	27,39,42	2.54	7 (25%)
1	2MU	1A	2564	1,56	19,22,24	1.30	3 (15%)	25,31,36	1.99	6 (24%)
32	4OC	1a	1402	32	20,23,24	0.75	0	25,32,35	1.12	2 (8%)
54	PSU	2y	55	54	18,21,22	1.37	2 (11%)	21,30,33	1.99	4 (19%)
54	4SU	2y	8	54	18,21,22	1.78	4 (22%)	25,30,33	2.51	5 (20%)
1	4OC	1A	1942	1	19,22,24	0.82	0	25,31,35	0.93	0
55	4SU	2x	8	55,56	18,21,22	2.07	5 (27%)	25,30,33	1.73	6 (24%)
54	PSU	2w	39	54	18,21,22	1.44	2 (11%)	21,30,33	1.70	4 (19%)
32	2MG	1a	1207	32	23,26,27	1.26	2 (8%)	33,38,41	2.25	9 (27%)
32	5MC	1a	1404	32	19,22,23	1.71	3 (15%)	26,32,35	1.21	3 (11%)
54	4SU	2w	8	54	18,21,22	1.69	4 (22%)	25,30,33	2.51	6 (24%)
54	MIA	1w	37	54	28,31,32	2.38	7 (25%)	38,44,47	2.58	13 (34%)
32	UR3	2a	1498	32	19,22,23	1.05	1 (5%)	26,32,35	1.78	3 (11%)
32	4OC	2a	1402	32	20,23,24	0.76	0	25,32,35	1.11	2 (8%)
1	PSU	2A	1911	1	18,21,22	1.37	2 (11%)	21,30,33	2.05	4 (19%)
54	7MG	2y	46	54	23,26,27	1.37	3 (13%)	27,39,42	2.72	6 (22%)
1	PSU	1A	1933	1	18,21,22	1.36	2 (11%)	21,30,33	2.01	4 (19%)
32	5MC	1a	1400	32	19,22,23	1.53	3 (15%)	26,32,35	1.17	3 (11%)
55	PSU	2x	55	55	18,21,22	1.34	2 (11%)	21,30,33	2.04	4 (19%)
32	MA6	2a	1519	32	23,26,27	1.54	4 (17%)	33,38,41	2.23	13 (39%)
32	PSU	2a	516	32	18,21,22	1.35	2 (11%)	21,30,33	1.95	5 (23%)
54	4SU	1w	8	54	18,21,22	1.87	5 (27%)	25,30,33	2.11	4 (16%)
54	PSU	2w	32	54	18,21,22	1.36	3 (16%)	21,30,33	1.89	4 (19%)
32	5MC	1a	967	32	19,22,23	1.50	3 (15%)	26,32,35	1.24	4 (15%)
55	PSU	1x	55	55,56	18,21,22	1.34	2 (11%)	21,30,33	1.91	3 (14%)
1	PSU	2A	1917	1	18,21,22	1.35	2 (11%)	21,30,33	2.04	4 (19%)
1	5MC	1A	1984	1	19,22,23	1.56	3 (15%)	26,32,35	1.08	2 (7%)
54	PSU	2y	39	54	18,21,22	1.37	2 (11%)	21,30,33	1.80	3 (14%)
54	MIA	1y	37	54	21,24,32	1.60	3 (14%)	30,35,47	2.06	9 (30%)
54	4SU	1y	8	54	18,21,22	1.71	4 (22%)	25,30,33	1.87	5 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	7MG	2w	46	54	23,26,27	1.33	3 (13%)	27,39,42	2.63	7 (25%)
54	5MU	2y	54	54	19,22,23	1.44	4 (21%)	27,32,35	2.23	7 (25%)
55	5MU	1x	54	55	19,22,23	1.43	6 (31%)	27,32,35	1.96	7 (25%)
1	PSU	1A	2617	1,56	18,21,22	1.44	4 (22%)	21,30,33	2.09	5 (23%)
54	PSU	1w	55	54	18,21,22	1.41	2 (11%)	21,30,33	2.02	4 (19%)
32	5MC	2a	1400	32	19,22,23	1.60	3 (15%)	26,32,35	1.12	2 (7%)
32	MA6	2a	1518	32	23,26,27	1.59	3 (13%)	33,38,41	2.31	12 (36%)
32	M2G	1a	966	32	24,27,28	1.31	3 (12%)	33,40,43	1.90	6 (18%)
54	PSU	2y	32	54	18,21,22	1.35	2 (11%)	21,30,33	1.93	3 (14%)
54	7MG	1w	46	54	23,26,27	1.35	3 (13%)	27,39,42	2.54	6 (22%)
54	5MU	1y	54	54	19,22,23	1.59	5 (26%)	27,32,35	1.86	7 (25%)
55	5MU	2x	54	55	19,22,23	1.36	4 (21%)	27,32,35	2.23	6 (22%)
1	5MU	1A	1961	1,56	19,22,23	1.36	4 (21%)	27,32,35	2.18	6 (22%)
32	5MC	2a	1404	32	19,22,23	1.74	3 (15%)	26,32,35	1.19	2 (7%)
54	PSU	1y	32	54	18,21,22	1.32	2 (11%)	21,30,33	1.92	3 (14%)
54	PSU	2w	55	54	18,21,22	1.40	2 (11%)	21,30,33	2.07	3 (14%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	1,56	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2
1	OMG	2A	2251	55,1,56	-	0/9/27/28	0/3/3/3
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	2/7/12/14	-
1	5MU	2A	1939	1,56	-	0/7/25/26	0/2/2/2
1	PSU	1A	1939	1	-	0/7/25/26	0/2/2/2
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	1/11/29/30	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	56,32	-	0/9/27/28	0/3/3/3
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	MIA	2w	37	54	-	2/11/29/34	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	56,32	-	0/7/25/26	0/2/2/2
32	7MG	2a	527	56,32	-	3/7/37/38	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
1	5MC	1A	1964	1	-	0/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/11/29/30	0/3/3/3
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
1	2MA	2A	2503	1,56	-	0/7/25/26	0/3/3/3
1	OMG	1A	2263	55,1,56	-	0/9/27/28	0/3/3/3
54	MIA	2y	37	54	-	2/7/25/34	0/3/3/3
1	5MU	1A	1937	1	-	1/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	2/7/12/14	-
54	7MG	1y	46	54	-	4/7/37/38	0/3/3/3
1	2MA	1A	2515	1,56	-	1/7/25/26	0/3/3/3
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
1	2MU	2A	2552	1,56	-	1/9/27/28	0/2/2/2
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
32	7MG	1a	527	32	-	3/7/37/38	0/3/3/3
1	2MU	1A	2564	1,56	-	0/9/27/28	0/2/2/2
32	4OC	1a	1402	32	-	1/9/29/30	0/2/2/2
54	PSU	2y	55	54	-	3/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
1	4OC	1A	1942	1	-	0/9/27/30	0/2/2/2
55	4SU	2x	8	55,56	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
32	2MG	1a	1207	32	-	0/9/27/28	0/3/3/3
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/15/33/34	0/3/3/3
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	32	-	2/9/29/30	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
54	7MG	2y	46	54	-	3/7/37/38	0/3/3/3
1	PSU	1A	1933	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	4/11/29/30	0/3/3/3
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
55	PSU	1x	55	55,56	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
1	5MC	1A	1984	1	-	0/7/25/26	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
54	MIA	1y	37	54	-	0/7/25/34	0/3/3/3
54	4SU	1y	8	54	-	4/7/25/26	0/2/2/2
54	7MG	2w	46	54	-	4/7/37/38	0/3/3/3
54	5MU	2y	54	54	-	2/7/25/26	0/2/2/2
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
1	PSU	1A	2617	1,56	-	0/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	3/11/29/30	0/3/3/3
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
54	7MG	1w	46	54	-	2/7/37/38	0/3/3/3
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
1	5MU	1A	1961	1,56	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	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	-12.93	1.69	1.82
43	2l	92	0TD	CB-SB	-12.68	1.69	1.82
54	1w	37	MIA	C2-S10	-7.11	1.69	1.75
54	1w	37	MIA	C13-C14	6.98	1.53	1.32
54	2w	37	MIA	C2-S10	-6.81	1.70	1.75
32	2a	967	5MC	C5-C4	6.47	1.49	1.44
32	2a	1404	5MC	C5-C4	6.39	1.49	1.44
1	2A	1942	5MC	C5-C4	6.25	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	1404	5MC	C5-C4	6.07	1.48	1.44
32	2a	1400	5MC	C5-C4	5.73	1.48	1.44
32	2a	1407	5MC	C5-C4	5.66	1.48	1.44
1	2A	1962	5MC	C5-C4	5.62	1.48	1.44
55	2x	32	5MC	C5-C4	5.52	1.48	1.44
55	1x	8	4SU	C4-N3	-5.50	1.31	1.37
1	1A	1984	5MC	C5-C4	5.45	1.48	1.44
32	1a	967	5MC	C5-C4	5.31	1.48	1.44
32	1a	1400	5MC	C5-C4	5.27	1.48	1.44
1	1A	1964	5MC	C5-C4	5.23	1.48	1.44
54	2y	37	MIA	C5-C4	5.17	1.48	1.39
55	1x	32	5MC	C5-C4	5.10	1.48	1.44
32	2a	1518	MA6	C5-C4	5.07	1.48	1.39
54	1y	37	MIA	C5-C4	5.03	1.48	1.39
54	2y	8	4SU	C4-S4	-5.03	1.59	1.68
54	1w	8	4SU	C4-S4	-5.02	1.59	1.68
55	2x	8	4SU	C4-S4	-4.97	1.59	1.68
32	1a	1407	5MC	C5-C4	4.93	1.47	1.44
54	2w	37	MIA	C5-C4	4.86	1.47	1.39
32	2a	1519	MA6	C5-C4	4.85	1.47	1.39
32	1a	1518	MA6	C5-C4	4.82	1.47	1.39
54	1w	37	MIA	C5-C4	4.79	1.47	1.39
32	1a	1519	MA6	C5-C4	4.74	1.47	1.39
54	2w	8	4SU	C4-S4	-4.68	1.60	1.68
55	1x	8	4SU	C4-S4	-4.54	1.60	1.68
55	2x	8	4SU	C4-N3	-4.37	1.33	1.37
54	1y	8	4SU	C4-S4	-4.33	1.61	1.68
1	2A	2503	2MA	C5-C4	4.18	1.46	1.39
1	1A	2515	2MA	C5-C4	4.11	1.46	1.39
54	2w	39	PSU	C6-C5	4.06	1.39	1.35
54	1w	55	PSU	C6-C5	4.02	1.39	1.35
55	1x	8	4SU	C2-N3	-4.01	1.31	1.38
54	2w	55	PSU	C6-C5	3.92	1.39	1.35
54	2y	32	PSU	C6-C5	3.91	1.39	1.35
54	2y	39	PSU	C6-C5	3.85	1.39	1.35
54	1y	39	PSU	C6-C5	3.83	1.39	1.35
54	1y	55	PSU	C6-C5	3.80	1.39	1.35
1	1A	1939	PSU	C6-C5	3.75	1.39	1.35
54	1y	46	7MG	C5-C4	3.69	1.49	1.37
54	2w	32	PSU	C6-C5	3.69	1.39	1.35
1	2A	2605	PSU	C6-C5	3.66	1.39	1.35
32	2a	516	PSU	C6-C5	3.64	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	2x	55	PSU	C6-C5	3.59	1.39	1.35
54	2y	46	7MG	C5-C4	3.56	1.48	1.37
54	1y	32	PSU	C6-C5	3.53	1.39	1.35
54	1w	39	PSU	C6-C5	3.53	1.39	1.35
54	1w	32	PSU	C6-C5	3.52	1.39	1.35
55	1x	55	PSU	C6-C5	3.40	1.39	1.35
32	1a	527	7MG	C4-N9	-3.40	1.33	1.37
54	1w	46	7MG	C5-C4	3.37	1.48	1.37
54	2w	46	7MG	C5-C4	3.35	1.48	1.37
32	1a	527	7MG	C5-C4	3.34	1.47	1.37
54	1w	8	4SU	C4-N3	-3.32	1.34	1.37
55	1x	8	4SU	C5-C4	-3.30	1.38	1.42
32	2a	966	M2G	C5-C4	3.28	1.47	1.38
32	2a	1518	MA6	C5-C6	3.26	1.49	1.41
1	2A	1917	PSU	C6-C5	3.25	1.38	1.35
1	1A	1933	PSU	C6-C5	3.24	1.38	1.35
1	2A	2251	OMG	C5-C4	3.22	1.47	1.38
54	2w	46	7MG	C4-N9	-3.19	1.33	1.37
32	1a	966	M2G	C5-C4	3.18	1.47	1.38
54	1y	54	5MU	C6-C5	3.18	1.39	1.34
54	1w	46	7MG	C4-N9	-3.17	1.34	1.37
32	2a	527	7MG	C5-C4	3.17	1.47	1.37
54	2y	55	PSU	C6-C5	3.15	1.38	1.35
32	2a	1207	2MG	C5-C4	3.13	1.47	1.38
55	2x	8	4SU	C2-N3	-3.12	1.32	1.38
1	1A	2564	2MU	C4-N3	-3.09	1.33	1.38
54	2y	54	5MU	C2-N1	3.08	1.43	1.38
55	2x	8	4SU	C5-C4	-3.08	1.38	1.42
32	1a	966	M2G	C2-N2	3.08	1.40	1.35
32	1a	1404	5MC	C6-C5	3.05	1.39	1.34
1	1A	2263	OMG	C5-C4	3.04	1.47	1.38
32	2a	527	7MG	C4-N9	-3.04	1.34	1.37
32	1a	1518	MA6	C5-C6	3.02	1.49	1.41
54	1y	54	5MU	C4-C5	3.02	1.49	1.44
32	2a	1519	MA6	C5-C6	3.02	1.49	1.41
1	1A	2617	PSU	C4-N3	-3.02	1.33	1.38
32	1a	1207	2MG	C5-C4	3.01	1.47	1.38
1	2A	1911	PSU	C6-C5	3.00	1.38	1.35
54	1y	54	5MU	C2-N1	2.97	1.43	1.38
54	1y	37	MIA	C5-C6	2.97	1.49	1.41
54	2w	37	MIA	C5-C6	2.97	1.49	1.41
55	1x	32	5MC	C6-C5	2.95	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	37	MIA	C5-C6	2.93	1.49	1.41
54	2w	54	5MU	C6-C5	2.93	1.39	1.34
55	2x	32	5MC	C6-C5	2.91	1.39	1.34
54	2y	8	4SU	C5-C4	-2.90	1.39	1.42
54	1y	8	4SU	C4-N3	-2.89	1.34	1.37
1	2A	1911	PSU	C4-N3	-2.88	1.33	1.38
1	2A	1915	5MU	C6-C5	2.88	1.39	1.34
1	1A	1984	5MC	C6-C5	2.87	1.39	1.34
55	2x	54	5MU	C6-C5	2.86	1.39	1.34
54	2y	54	5MU	C6-C5	2.85	1.39	1.34
1	1A	2617	PSU	C6-C5	2.85	1.38	1.35
1	1A	1937	5MU	C6-C5	2.84	1.39	1.34
32	1a	1400	5MC	C6-C5	2.81	1.39	1.34
1	1A	1961	5MU	C6-C5	2.80	1.39	1.34
1	2A	1915	5MU	C2-N1	2.80	1.42	1.38
54	1w	54	5MU	C6-C5	2.79	1.39	1.34
54	2w	8	4SU	C4-N3	-2.78	1.34	1.37
1	2A	2605	PSU	C4-N3	-2.78	1.33	1.38
32	1a	516	PSU	C6-C5	2.78	1.38	1.35
32	1a	516	PSU	C4-N3	-2.77	1.33	1.38
1	1A	1961	5MU	C4-N3	-2.77	1.33	1.38
1	2A	1939	5MU	C6-C5	2.77	1.39	1.34
54	1w	8	4SU	C5-C4	-2.75	1.39	1.42
32	1a	1519	MA6	C5-C6	2.75	1.48	1.41
1	1A	1964	5MC	C6-C5	2.74	1.39	1.34
1	2A	1942	5MC	C6-C5	2.72	1.39	1.34
32	2a	967	5MC	C6-C5	2.70	1.39	1.34
55	1x	54	5MU	C6-C5	2.68	1.39	1.34
32	2a	1404	5MC	C6-C5	2.67	1.39	1.34
32	1a	1207	2MG	C6-N1	-2.67	1.33	1.38
1	2A	1917	PSU	C4-N3	-2.66	1.33	1.38
32	2a	1400	5MC	C6-C5	2.65	1.38	1.34
1	2A	2251	OMG	C6-N1	-2.65	1.33	1.38
32	2a	1407	5MC	C6-C5	2.64	1.38	1.34
54	2w	39	PSU	C4-N3	-2.64	1.33	1.38
54	1w	37	MIA	C5-C6	2.63	1.48	1.41
55	1x	54	5MU	C4-N3	-2.62	1.33	1.38
1	2A	1915	5MU	C4-N3	-2.62	1.33	1.38
1	1A	2263	OMG	C6-N1	-2.62	1.33	1.38
54	1w	37	MIA	C5-N7	-2.62	1.34	1.39
54	2y	55	PSU	C4-N3	-2.61	1.34	1.38
32	2a	966	M2G	C2-N2	2.60	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	1962	5MC	C6-C5	2.60	1.38	1.34
54	1y	54	5MU	C4-N3	-2.57	1.34	1.38
54	2w	54	5MU	C4-C5	2.57	1.49	1.44
54	1y	8	4SU	C2-N1	2.57	1.42	1.38
1	2A	1962	5MC	C6-N1	-2.56	1.33	1.38
54	2y	8	4SU	C4-N3	-2.55	1.35	1.37
32	1a	1518	MA6	C8-N7	2.55	1.36	1.31
1	2A	1939	5MU	C4-N3	-2.54	1.34	1.38
32	2a	516	PSU	C4-N3	-2.52	1.34	1.38
1	1A	2564	2MU	C2-N3	-2.52	1.33	1.38
1	1A	2515	2MA	C5-N7	-2.51	1.34	1.39
1	2A	2552	2MU	C5-C4	2.50	1.49	1.43
54	2w	55	PSU	C4-N3	-2.49	1.34	1.38
54	2y	54	5MU	C4-C5	2.49	1.48	1.44
32	1a	1407	5MC	C6-C5	2.49	1.38	1.34
1	1A	1937	5MU	C4-C5	2.48	1.48	1.44
54	2w	8	4SU	C2-N1	2.48	1.42	1.38
54	1w	32	PSU	C4-N3	-2.48	1.34	1.38
1	1A	1937	5MU	C4-N3	-2.47	1.34	1.38
1	2A	2552	2MU	C4-N3	-2.46	1.34	1.38
1	1A	1937	5MU	C2-N1	2.45	1.42	1.38
54	1y	8	4SU	C5-C4	-2.45	1.39	1.42
54	2y	46	7MG	C8-N9	2.45	1.47	1.45
54	2y	37	MIA	C8-N7	2.45	1.36	1.31
32	2a	1207	2MG	C6-N1	-2.44	1.34	1.38
1	1A	1939	PSU	C4-N3	-2.44	1.34	1.38
1	2A	2503	2MA	C5-N7	-2.44	1.34	1.39
54	2y	39	PSU	C4-N3	-2.44	1.34	1.38
32	1a	1519	MA6	C8-N7	2.44	1.36	1.31
55	2x	55	PSU	C4-N3	-2.44	1.34	1.38
54	2y	8	4SU	C2-N1	2.43	1.42	1.38
1	1A	1933	PSU	C4-N3	-2.43	1.34	1.38
55	1x	54	5MU	C4-C5	2.43	1.48	1.44
55	2x	54	5MU	C4-N3	-2.41	1.34	1.38
54	1w	54	5MU	C4-N3	-2.41	1.34	1.38
55	1x	55	PSU	C4-N3	-2.40	1.34	1.38
54	1y	39	PSU	C4-N3	-2.40	1.34	1.38
32	1a	967	5MC	C6-N1	-2.39	1.33	1.38
54	1y	37	MIA	C8-N7	2.39	1.36	1.31
55	2x	54	5MU	C4-C5	2.39	1.48	1.44
32	2a	1518	MA6	C8-N7	2.38	1.36	1.31
54	2y	46	7MG	C6-N1	-2.38	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1407	5MC	C6-N1	-2.38	1.34	1.38
54	1w	46	7MG	C6-N1	-2.38	1.34	1.38
1	1A	1961	5MU	C6-N1	-2.37	1.34	1.38
54	1w	39	PSU	C4-N3	-2.37	1.34	1.38
54	1y	46	7MG	C6-N1	-2.36	1.34	1.38
54	2y	54	5MU	C4-N3	-2.35	1.34	1.38
32	1a	966	M2G	C6-N1	-2.35	1.34	1.38
54	1y	46	7MG	C8-N9	2.34	1.47	1.45
1	2A	1939	5MU	C6-N1	-2.34	1.34	1.38
54	1w	37	MIA	C8-N7	2.34	1.36	1.31
32	1a	967	5MC	C6-C5	2.33	1.38	1.34
1	1A	2515	2MA	C5-C6	2.33	1.47	1.41
1	1A	2617	PSU	C2-N3	-2.32	1.33	1.37
54	1w	54	5MU	C4-C5	2.32	1.48	1.44
32	2a	527	7MG	C6-N1	-2.31	1.34	1.38
1	2A	2503	2MA	C4-N9	-2.31	1.32	1.37
1	2A	2605	PSU	C2-N3	-2.30	1.33	1.37
54	2w	37	MIA	C8-N7	2.29	1.36	1.31
32	2a	1519	MA6	C8-N7	2.29	1.36	1.31
55	1x	54	5MU	C2-N1	2.28	1.42	1.38
54	2w	32	PSU	C4-N3	-2.28	1.34	1.38
1	2A	2503	2MA	C8-N7	2.28	1.36	1.31
54	2w	8	4SU	C5-C4	-2.27	1.39	1.42
54	1w	8	4SU	C2-N3	-2.27	1.34	1.38
1	1A	1964	5MC	C6-N1	-2.27	1.34	1.38
54	1w	8	4SU	C2-N1	2.27	1.42	1.38
1	2A	2503	2MA	C5-C6	2.26	1.47	1.41
54	1y	32	PSU	C4-N3	-2.26	1.34	1.38
54	1y	54	5MU	C2-N3	-2.26	1.34	1.38
32	2a	966	M2G	C6-N1	-2.26	1.34	1.38
55	1x	32	5MC	C6-N1	-2.26	1.34	1.38
54	2y	32	PSU	C4-N3	-2.25	1.34	1.38
54	1w	55	PSU	C4-N3	-2.24	1.34	1.38
32	1a	1407	5MC	C6-N1	-2.24	1.34	1.38
32	1a	1404	5MC	C6-N1	-2.24	1.34	1.38
54	1y	55	PSU	C4-N3	-2.24	1.34	1.38
1	1A	1984	5MC	C6-N1	-2.22	1.34	1.38
43	1l	92	0TD	CB-CA	-2.22	1.54	1.54
32	1a	1400	5MC	C6-N1	-2.22	1.34	1.38
54	1w	37	MIA	C4-N9	-2.22	1.33	1.37
32	1a	527	7MG	C6-N1	-2.21	1.34	1.38
1	2A	1939	5MU	C4-C5	2.20	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	2x	8	4SU	C2-N1	2.20	1.41	1.38
32	1a	1519	MA6	C5-N7	-2.20	1.35	1.39
1	2A	1942	5MC	C6-N1	-2.19	1.34	1.38
54	2w	54	5MU	C4-N3	-2.18	1.34	1.38
32	2a	1404	5MC	C6-N1	-2.18	1.34	1.38
1	1A	2263	OMG	C5-N7	-2.17	1.34	1.39
32	2a	967	5MC	C6-N1	-2.17	1.34	1.38
55	2x	54	5MU	C2-N1	2.17	1.41	1.38
32	2a	1498	UR3	C2-N1	2.17	1.41	1.38
1	1A	2564	2MU	C5-C4	2.17	1.48	1.43
1	2A	2251	OMG	C5-N7	-2.16	1.34	1.39
55	1x	8	4SU	O2-C2	2.16	1.26	1.23
54	2w	54	5MU	C2-N1	2.16	1.41	1.38
1	1A	1961	5MU	C2-N3	-2.15	1.34	1.38
32	2a	1400	5MC	C6-N1	-2.13	1.34	1.38
55	1x	54	5MU	C2-N3	-2.12	1.34	1.38
32	2a	1519	MA6	C5-N7	-2.12	1.35	1.39
1	1A	2515	2MA	C4-N9	-2.11	1.33	1.37
54	1w	54	5MU	C2-N3	-2.08	1.34	1.38
32	2a	1207	2MG	C5-N7	-2.08	1.34	1.39
1	2A	1915	5MU	C2-N3	-2.08	1.34	1.38
1	1A	1937	5MU	C6-N1	-2.08	1.34	1.38
54	2y	37	MIA	C5-N7	-2.07	1.35	1.39
1	2A	1915	5MU	C4-C5	2.07	1.48	1.44
55	1x	54	5MU	C6-N1	-2.07	1.34	1.38
32	2a	1207	2MG	C4-N9	-2.06	1.32	1.38
32	1a	516	PSU	C2-N3	-2.06	1.34	1.37
1	2A	1915	5MU	C6-N1	-2.06	1.34	1.38
54	2w	37	MIA	C5-N7	-2.05	1.35	1.39
32	1a	1518	MA6	C4-N9	-2.05	1.33	1.37
54	1w	54	5MU	C6-N1	-2.04	1.34	1.38
54	2w	46	7MG	C6-N1	-2.03	1.35	1.38
1	1A	2617	PSU	C2-N1	-2.03	1.34	1.36
32	2a	527	7MG	C5-C6	2.02	1.48	1.43
1	1A	2515	2MA	C8-N7	2.02	1.35	1.31
54	2w	32	PSU	C4-C5	2.02	1.49	1.44
32	2a	966	M2G	C5-N7	-2.01	1.35	1.39
32	1a	1498	UR3	C6-C5	2.01	1.39	1.35

All (436) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	2l	92	0TD	CSB-SB-CB	-9.98	84.42	102.36
54	1y	46	7MG	N9-C4-N3	9.76	139.76	125.46
54	2y	46	7MG	N9-C4-N3	9.66	139.61	125.46
54	1w	37	MIA	C12-C13-C14	-8.84	111.14	127.01
54	2w	46	7MG	N9-C4-N3	8.83	138.40	125.46
32	2a	527	7MG	N9-C4-N3	8.81	138.37	125.46
54	1w	46	7MG	N9-C4-N3	8.79	138.34	125.46
32	1a	527	7MG	N9-C4-N3	8.60	138.07	125.46
54	2w	37	MIA	C5-C4-N3	-8.00	118.75	127.18
1	2A	2503	2MA	C5-C4-N3	-7.89	118.87	127.18
54	2w	8	4SU	C4-N3-C2	-7.85	119.78	127.31
1	1A	2515	2MA	C5-C4-N3	-7.52	119.26	127.18
54	1w	37	MIA	C5-C4-N3	-7.33	119.46	127.18
32	2a	1498	UR3	C4-N3-C2	-7.18	118.80	124.58
32	1a	1498	UR3	C4-N3-C2	-7.12	118.85	124.58
54	2y	8	4SU	C4-N3-C2	-7.03	120.58	127.31
32	1a	1207	2MG	C2-N3-C4	7.01	120.77	112.00
32	2a	1207	2MG	C2-N3-C4	6.68	120.36	112.00
54	1w	39	PSU	N1-C2-N3	6.64	122.17	115.17
1	2A	2605	PSU	N1-C2-N3	6.62	122.15	115.17
1	2A	2503	2MA	N3-C4-N9	6.55	135.30	126.99
1	1A	2617	PSU	N1-C2-N3	6.52	122.05	115.17
32	1a	516	PSU	N1-C2-N3	6.50	122.03	115.17
1	2A	1911	PSU	N1-C2-N3	6.40	121.92	115.17
1	2A	2251	OMG	C5-C4-N3	-6.39	118.21	128.39
1	1A	1939	PSU	N1-C2-N3	6.35	121.86	115.17
54	2w	37	MIA	N3-C4-N9	6.34	135.04	126.99
1	1A	2263	OMG	C5-C4-N3	-6.33	118.31	128.39
1	2A	1917	PSU	N1-C2-N3	6.33	121.84	115.17
54	2w	55	PSU	N1-C2-N3	6.33	121.84	115.17
32	2a	966	M2G	C5-C4-N3	-6.32	118.33	128.39
55	2x	55	PSU	N1-C2-N3	6.31	121.82	115.17
1	1A	2515	2MA	N3-C4-N9	6.25	134.92	126.99
32	1a	966	M2G	C5-C4-N3	-6.13	118.64	128.39
54	1w	55	PSU	N1-C2-N3	6.10	121.61	115.17
54	2y	55	PSU	N1-C2-N3	6.09	121.59	115.17
54	2y	8	4SU	C5-C4-N3	6.07	120.40	114.75
54	1y	55	PSU	N1-C2-N3	6.04	121.54	115.17
32	2a	516	PSU	N1-C2-N3	6.00	121.49	115.17
54	1w	8	4SU	C4-N3-C2	-5.98	121.59	127.31
54	1w	8	4SU	C5-C4-N3	5.94	120.28	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	32	PSU	N1-C2-N3	5.92	121.42	115.17
54	2y	46	7MG	C5-C4-N3	-5.91	117.04	128.13
54	2w	8	4SU	C5-C4-N3	5.90	120.24	114.75
54	1y	32	PSU	N1-C2-N3	5.88	121.37	115.17
54	1w	32	PSU	N1-C2-N3	5.86	121.35	115.17
32	2a	1518	MA6	C5-C4-N3	-5.81	118.72	126.72
54	1y	37	MIA	C5-C4-N3	-5.80	118.73	126.72
1	1A	1933	PSU	N1-C2-N3	5.79	121.27	115.17
55	1x	55	PSU	N1-C2-N3	5.75	121.23	115.17
54	2w	32	PSU	N1-C2-N3	5.74	121.23	115.17
54	1y	39	PSU	N1-C2-N3	5.71	121.19	115.17
54	1y	46	7MG	C5-C4-N3	-5.71	117.41	128.13
54	2y	8	4SU	C5-C4-S4	-5.70	117.80	124.31
54	2y	37	MIA	C5-C4-N3	-5.70	118.87	126.72
1	1A	2564	2MU	N3-C2-N1	5.69	122.29	114.89
32	1a	1207	2MG	C5-C4-N3	-5.68	119.36	128.39
32	2a	1207	2MG	C5-C4-N3	-5.61	119.46	128.39
54	2w	46	7MG	N9-C8-N7	-5.60	95.45	103.37
54	2y	39	PSU	N1-C2-N3	5.58	121.05	115.17
32	1a	1519	MA6	C5-C4-N3	-5.56	119.06	126.72
32	2a	527	7MG	N9-C8-N7	-5.55	95.51	103.37
55	2x	54	5MU	C4-N3-C2	-5.48	120.16	127.34
54	1w	37	MIA	N3-C4-N9	5.44	133.90	126.99
55	2x	54	5MU	N3-C2-N1	5.41	121.93	114.89
32	2a	527	7MG	C5-C4-N3	-5.32	118.14	128.13
54	1w	46	7MG	N9-C8-N7	-5.32	95.85	103.37
1	2A	1939	5MU	C4-N3-C2	-5.31	120.38	127.34
32	2a	1519	MA6	C5-C4-N3	-5.30	119.42	126.72
1	1A	1937	5MU	C4-N3-C2	-5.29	120.41	127.34
54	1y	8	4SU	C4-N3-C2	-5.27	122.26	127.31
54	2y	54	5MU	C4-N3-C2	-5.26	120.44	127.34
32	1a	1518	MA6	C5-C4-N3	-5.25	119.48	126.72
54	2w	39	PSU	N1-C2-N3	5.25	120.71	115.17
32	1a	527	7MG	C5-C4-N3	-5.25	118.28	128.13
1	1A	2263	OMG	C2-N3-C4	5.23	121.32	112.30
32	1a	527	7MG	N9-C8-N7	-5.23	95.96	103.37
1	1A	1961	5MU	C4-N3-C2	-5.21	120.51	127.34
54	2w	46	7MG	C5-C4-N3	-5.18	118.40	128.13
54	2y	54	5MU	C5-C4-N3	5.13	119.78	115.32
54	1w	46	7MG	C5-C4-N3	-5.10	118.56	128.13
1	1A	1937	5MU	C5-C4-N3	5.10	119.75	115.32
1	2A	1939	5MU	N3-C2-N1	5.02	121.43	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	2251	OMG	N9-C4-N3	4.96	135.88	125.95
1	1A	1961	5MU	O4-C4-C5	-4.94	119.27	124.92
1	1A	1961	5MU	C5-C4-N3	4.92	119.60	115.32
1	1A	1937	5MU	N3-C2-N1	4.92	121.29	114.89
1	2A	1915	5MU	C4-N3-C2	-4.92	120.89	127.34
54	2y	46	7MG	C2-N3-C4	4.92	120.77	112.30
1	2A	2251	OMG	C2-N3-C4	4.91	120.76	112.30
1	2A	1915	5MU	N3-C2-N1	4.91	121.28	114.89
1	1A	2564	2MU	C4-N3-C2	-4.86	120.58	126.61
55	1x	54	5MU	N3-C2-N1	4.83	121.18	114.89
32	2a	966	M2G	N9-C4-N3	4.82	135.59	125.95
54	2y	54	5MU	O4-C4-C5	-4.82	119.41	124.92
54	2w	54	5MU	C4-N3-C2	-4.79	121.06	127.34
32	1a	966	M2G	C2-N3-C4	4.75	121.29	112.51
54	2y	54	5MU	N3-C2-N1	4.74	121.06	114.89
1	2A	2552	2MU	N3-C2-N1	4.73	121.04	114.89
1	1A	2263	OMG	N9-C4-N3	4.69	135.34	125.95
54	2y	37	MIA	N3-C4-N9	4.68	135.13	127.17
54	1y	37	MIA	N3-C4-N9	4.68	135.13	127.17
54	1w	54	5MU	N3-C2-N1	4.65	120.94	114.89
1	1A	1961	5MU	N3-C2-N1	4.64	120.93	114.89
54	2y	46	7MG	N9-C8-N7	-4.64	96.81	103.37
32	1a	966	M2G	N9-C4-N3	4.63	135.21	125.95
54	1y	46	7MG	N9-C8-N7	-4.62	96.83	103.37
54	2w	54	5MU	C5-C4-N3	4.62	119.34	115.32
54	1y	46	7MG	C2-N3-C4	4.61	120.24	112.30
54	1w	54	5MU	C4-N3-C2	-4.59	121.33	127.34
54	2w	8	4SU	N3-C2-N1	4.58	120.85	114.89
1	1A	1937	5MU	O4-C4-C5	-4.58	119.68	124.92
32	2a	1518	MA6	C9-N6-C6	-4.58	108.88	120.52
54	1y	54	5MU	N3-C2-N1	4.56	120.82	114.89
55	1x	54	5MU	C4-N3-C2	-4.55	121.38	127.34
1	2A	1915	5MU	O4-C4-C5	-4.55	119.72	124.92
54	1w	39	PSU	C4-N3-C2	-4.54	120.11	126.37
1	2A	1915	5MU	C5-C4-N3	4.51	119.24	115.32
32	1a	1518	MA6	C2-N1-C6	4.51	122.83	111.83
55	2x	54	5MU	C5-C4-N3	4.50	119.24	115.32
32	2a	527	7MG	C2-N3-C4	4.50	120.05	112.30
32	2a	966	M2G	C2-N3-C4	4.48	120.79	112.51
43	1l	92	0TD	CSB-SB-CB	4.48	110.41	102.36
54	2w	8	4SU	C5-C4-S4	-4.46	119.21	124.31
54	2w	54	5MU	N3-C2-N1	4.46	120.70	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2617	PSU	C4-N3-C2	-4.44	120.26	126.37
54	1y	8	4SU	C5-C4-N3	4.42	118.86	114.75
32	2a	1518	MA6	C2-N1-C6	4.39	122.54	111.83
55	2x	54	5MU	O4-C4-C5	-4.37	119.92	124.92
32	2a	1518	MA6	C4-C5-N7	-4.35	105.60	110.58
32	1a	1519	MA6	N3-C4-N9	4.35	134.57	127.17
54	2w	46	7MG	C2-N3-C4	4.33	119.76	112.30
54	2w	54	5MU	O4-C4-C5	-4.31	119.99	124.92
32	2a	1519	MA6	C2-N1-C6	4.29	122.30	111.83
32	2a	1519	MA6	C9-N6-C6	-4.28	109.62	120.52
32	1a	516	PSU	C4-N3-C2	-4.28	120.48	126.37
1	2A	2552	2MU	C4-N3-C2	-4.24	121.35	126.61
1	2A	1939	5MU	C5-C6-N1	-4.24	118.71	123.31
32	1a	527	7MG	C2-N3-C4	4.23	119.59	112.30
54	1y	54	5MU	C4-N3-C2	-4.22	121.81	127.34
55	2x	8	4SU	C5-C4-N3	4.21	118.67	114.75
32	1a	1519	MA6	C2-N1-C6	4.21	122.11	111.83
1	1A	1939	PSU	C4-N3-C2	-4.21	120.58	126.37
32	1a	1518	MA6	C4-C5-N7	-4.17	105.81	110.58
1	2A	1917	PSU	C4-N3-C2	-4.17	120.62	126.37
32	2a	1518	MA6	N3-C4-N9	4.17	134.26	127.17
1	2A	1939	5MU	O4-C4-C5	-4.15	120.17	124.92
55	2x	55	PSU	C4-N3-C2	-4.14	120.66	126.37
32	1a	1519	MA6	C9-N6-C6	-4.14	109.99	120.52
1	2A	1939	5MU	C5-C4-N3	4.12	118.91	115.32
1	2A	1939	5MU	O2-C2-N1	-4.11	117.44	122.80
54	1w	54	5MU	C5-C4-N3	4.11	118.90	115.32
1	1A	1961	5MU	C5-C6-N1	-4.10	118.86	123.31
54	1w	46	7MG	C2-N3-C4	4.10	119.35	112.30
1	2A	2605	PSU	C4-N3-C2	-4.04	120.81	126.37
32	1a	1207	2MG	C6-C5-N7	4.03	137.62	130.29
54	2y	55	PSU	C4-N3-C2	-4.03	120.83	126.37
32	1a	1518	MA6	C9-N6-C6	-4.02	110.28	120.52
54	2w	55	PSU	C4-N3-C2	-4.02	120.83	126.37
1	2A	1911	PSU	C4-N3-C2	-4.01	120.84	126.37
32	2a	516	PSU	C4-N3-C2	-4.01	120.85	126.37
1	1A	1933	PSU	C4-N3-C2	-3.99	120.88	126.37
32	2a	1519	MA6	C4-C5-N7	-3.97	106.04	110.58
55	2x	8	4SU	C1'-N1-C2	3.97	124.73	117.59
32	2a	1519	MA6	N3-C4-N9	3.97	133.92	127.17
32	1a	516	PSU	O2-C2-N1	-3.96	118.70	122.79
54	1y	54	5MU	C5-C4-N3	3.95	118.76	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1964	5MC	C5-C6-N1	-3.93	119.04	123.31
54	1w	54	5MU	O4-C4-C5	-3.93	120.42	124.92
54	1w	37	MIA	C15-C14-C13	-3.91	110.93	122.66
54	1y	55	PSU	O2-C2-N1	-3.89	118.78	122.79
1	2A	1911	PSU	O2-C2-N1	-3.88	118.79	122.79
54	2y	8	4SU	N3-C2-N1	3.88	119.94	114.89
55	1x	54	5MU	C5-C4-N3	3.87	118.68	115.32
32	2a	1207	2MG	C6-C5-N7	3.86	137.31	130.29
54	1y	37	MIA	C2-N3-C4	3.82	121.16	111.83
55	1x	55	PSU	C4-N3-C2	-3.78	121.16	126.37
32	2a	1518	MA6	C2-N3-C4	3.77	121.04	111.83
54	1w	8	4SU	C5-C4-S4	-3.76	120.01	124.31
32	1a	1207	2MG	N9-C4-N3	3.75	133.46	125.95
54	2y	37	MIA	N3-C2-N1	-3.75	122.91	128.58
1	1A	2564	2MU	O2-C2-N1	-3.75	117.92	122.80
54	1y	32	PSU	C4-N3-C2	-3.74	121.22	126.37
54	2y	37	MIA	C2-N3-C4	3.72	120.92	111.83
1	1A	1933	PSU	O2-C2-N1	-3.72	118.95	122.79
54	1w	55	PSU	O2-C2-N1	-3.72	118.95	122.79
54	2w	37	MIA	C4-C5-N7	-3.72	106.33	110.58
32	2a	1207	2MG	N1-C2-N2	3.71	120.35	116.56
1	2A	1917	PSU	O2-C2-N1	-3.70	118.97	122.79
1	1A	2515	2MA	N6-C6-N1	3.70	122.02	117.03
54	1y	32	PSU	O2-C2-N1	-3.69	118.98	122.79
54	1w	55	PSU	C4-N3-C2	-3.68	121.30	126.37
54	2y	32	PSU	C4-N3-C2	-3.68	121.31	126.37
54	2w	32	PSU	C4-N3-C2	-3.67	121.32	126.37
32	1a	1518	MA6	N3-C4-N9	3.66	133.39	127.17
54	1y	37	MIA	N3-C2-N1	-3.65	123.05	128.58
32	1a	1519	MA6	C2-N3-C4	3.65	120.74	111.83
54	1w	39	PSU	O2-C2-N1	-3.62	119.05	122.79
54	2w	55	PSU	O2-C2-N1	-3.62	119.05	122.79
54	1y	55	PSU	C4-N3-C2	-3.62	121.38	126.37
54	1w	32	PSU	C4-N3-C2	-3.62	121.39	126.37
54	2y	55	PSU	O2-C2-N1	-3.62	119.06	122.79
55	1x	8	4SU	C6-C5-C4	-3.60	116.83	119.95
1	2A	2503	2MA	N6-C6-N1	3.59	121.88	117.03
32	1a	1518	MA6	C2-N3-C4	3.59	120.60	111.83
54	1y	8	4SU	N3-C2-N1	3.58	119.55	114.89
32	1a	1519	MA6	C4-C5-N7	-3.57	106.50	110.58
55	1x	54	5MU	O4-C4-C5	-3.57	120.84	124.92
55	2x	54	5MU	C5-C6-N1	-3.57	119.44	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	55	PSU	O2-C2-N1	-3.56	119.12	122.79
54	1y	39	PSU	C4-N3-C2	-3.55	121.48	126.37
54	1y	37	MIA	C4-C5-N7	-3.52	106.55	110.58
54	2y	37	MIA	C4-C5-N7	-3.49	106.59	110.58
32	1a	1518	MA6	N1-C2-N3	-3.49	123.30	128.58
55	2x	54	5MU	O2-C2-N1	-3.48	118.27	122.80
1	1A	1939	PSU	O2-C2-N1	-3.47	119.21	122.79
55	2x	55	PSU	O2-C2-N1	-3.46	119.22	122.79
1	2A	2503	2MA	C4-N9-C8	3.45	109.36	105.74
32	2a	1404	5MC	C5-C6-N1	-3.45	119.57	123.31
1	1A	2515	2MA	C4-N9-C8	3.44	109.36	105.74
32	1a	1407	5MC	C5-C6-N1	-3.44	119.57	123.31
54	1w	37	MIA	C16-C14-C13	-3.44	112.34	122.66
54	2w	37	MIA	C6-C5-N7	3.43	136.17	132.43
54	2y	32	PSU	O2-C2-N1	-3.43	119.25	122.79
32	2a	1519	MA6	C2-N3-C4	3.43	120.21	111.83
32	2a	1407	5MC	C5-C6-N1	-3.43	119.59	123.31
32	1a	1519	MA6	N1-C2-N3	-3.42	123.41	128.58
54	1w	8	4SU	N3-C2-N1	3.42	119.34	114.89
32	2a	1207	2MG	N9-C4-N3	3.41	132.78	125.95
32	2a	967	5MC	C5-C6-N1	-3.41	119.61	123.31
54	2y	39	PSU	C4-N3-C2	-3.39	121.70	126.37
32	2a	1207	2MG	N2-C2-N3	-3.39	116.20	120.51
54	2w	37	MIA	C2-N3-C4	3.38	121.14	112.29
55	1x	8	4SU	O2-C2-N1	3.37	127.18	122.80
32	1a	1498	UR3	C5-C4-N3	3.35	119.45	115.04
32	1a	1404	5MC	C5-C6-N1	-3.35	119.68	123.31
54	2w	32	PSU	O2-C2-N1	-3.33	119.35	122.79
54	1y	8	4SU	C5-C4-S4	-3.33	120.50	124.31
43	2l	92	0TD	OD2-CG-CB	3.33	120.33	113.15
1	1A	2515	2MA	C4-C5-N7	-3.32	106.78	110.58
32	2a	1518	MA6	N1-C2-N3	-3.32	123.56	128.58
32	2a	1498	UR3	C5-C4-N3	3.27	119.35	115.04
1	2A	1962	5MC	C5-C6-N1	-3.26	119.77	123.31
55	1x	32	5MC	C5-C4-N3	-3.26	118.41	121.75
54	1w	37	MIA	C4-C5-N7	-3.26	106.86	110.58
32	1a	966	M2G	C6-C5-N7	3.24	136.19	130.29
1	1A	1984	5MC	C5-C6-N1	-3.24	119.80	123.31
55	1x	32	5MC	C5-C6-N1	-3.23	119.81	123.31
1	2A	1915	5MU	C5-C6-N1	-3.22	119.82	123.31
32	1a	1404	5MC	C5-C4-N3	-3.21	118.46	121.75
32	1a	1207	2MG	N1-C2-N2	3.19	119.82	116.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2263	OMG	C6-C5-N7	3.16	136.05	130.29
54	1w	32	PSU	O2-C2-N1	-3.15	119.54	122.79
54	1y	54	5MU	C5-C6-N1	-3.14	119.91	123.31
32	2a	1400	5MC	C5-C6-N1	-3.13	119.91	123.31
32	1a	1207	2MG	C4-C5-N7	-3.13	105.71	110.67
32	2a	1207	2MG	C4-C5-N7	-3.09	105.77	110.67
54	2w	54	5MU	C5-C6-N1	-3.07	119.98	123.31
54	1w	37	MIA	C2-N3-C4	3.06	120.31	112.29
32	1a	1400	5MC	C5-C6-N1	-3.06	119.99	123.31
1	2A	2503	2MA	C4-C5-N7	-3.06	107.09	110.58
1	1A	1937	5MU	C5-C6-N1	-3.05	120.00	123.31
54	2w	39	PSU	C4-N3-C2	-3.04	122.18	126.37
1	2A	1962	5MC	C5-C4-N3	-3.03	118.65	121.75
32	2a	1519	MA6	N1-C2-N3	-3.03	124.00	128.58
55	2x	32	5MC	C5-C6-N1	-3.02	120.03	123.31
55	1x	8	4SU	C5-C4-N3	3.02	117.56	114.75
54	1w	54	5MU	O2-C2-N1	-3.01	118.87	122.80
43	1l	92	0TD	OD2-CG-CB	3.00	119.64	113.15
1	1A	2617	PSU	O2-C2-N1	-2.99	119.70	122.79
54	2y	54	5MU	C5-C6-N1	-2.99	120.07	123.31
54	1w	54	5MU	C5-C6-N1	-2.98	120.08	123.31
55	1x	54	5MU	C5-C6-N1	-2.98	120.08	123.31
32	1a	967	5MC	C5-C6-N1	-2.97	120.09	123.31
32	2a	1404	5MC	C5-C4-N3	-2.96	118.72	121.75
1	2A	2251	OMG	C6-C5-N7	2.95	135.66	130.29
1	1A	2515	2MA	C2-N1-C6	2.93	122.60	118.10
1	2A	1942	5MC	C5-C4-N3	-2.93	118.75	121.75
32	2a	966	M2G	C6-C5-N7	2.91	135.59	130.29
32	2a	516	PSU	O2-C2-N1	-2.91	119.78	122.79
54	1y	39	PSU	O2-C2-N1	-2.91	119.79	122.79
32	2a	1407	5MC	C5-C4-N3	-2.90	118.78	121.75
32	1a	1519	MA6	N1-C6-N6	2.89	120.37	116.86
32	1a	1400	5MC	C5-C4-N3	-2.89	118.80	121.75
54	2w	37	MIA	C4-N9-C8	2.88	108.76	105.74
32	2a	1518	MA6	C5-N7-C8	2.87	107.96	103.45
1	1A	1961	5MU	O2-C2-N1	-2.86	119.08	122.80
55	2x	8	4SU	C6-C5-C4	-2.85	117.48	119.95
1	1A	1933	PSU	C6-C5-C4	-2.85	116.25	118.17
1	1A	2564	2MU	C5-C4-N3	2.82	118.74	114.80
1	2A	2552	2MU	C5-C4-N3	2.81	118.74	114.80
1	2A	2552	2MU	O2-C2-N1	-2.80	119.15	122.80
54	2w	54	5MU	O2-C2-N1	-2.80	119.15	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	527	7MG	C5-C6-N1	2.79	115.85	110.94
1	1A	2515	2MA	C5-N7-C8	2.79	107.84	103.45
54	2w	37	MIA	C12-N6-C6	-2.79	120.26	122.85
54	1y	54	5MU	O4-C4-C5	-2.78	121.74	124.92
32	2a	1519	MA6	C10-N6-C6	-2.77	113.47	120.52
55	2x	8	4SU	O2-C2-N1	2.76	126.39	122.80
32	1a	1518	MA6	C5-N7-C8	2.76	107.79	103.45
54	2y	37	MIA	C4-N9-C8	2.76	108.63	105.74
32	2a	1519	MA6	C5-N7-C8	2.75	107.78	103.45
54	2w	8	4SU	O2-C2-N1	-2.75	119.22	122.80
54	1y	46	7MG	C5-C4-N9	-2.74	102.82	106.33
32	1a	1402	4OC	C6-C5-C4	2.74	120.30	117.00
1	1A	1984	5MC	C5-C4-N3	-2.73	118.95	121.75
54	1y	37	MIA	C4-N9-C8	2.73	108.61	105.74
54	1w	37	MIA	C6-C5-N7	2.73	135.40	132.43
54	2w	46	7MG	C5-C6-N1	2.73	115.74	110.94
54	2w	37	MIA	C5-N7-C8	2.73	107.73	103.45
1	2A	1942	5MC	C5-C6-N1	-2.71	120.37	123.31
55	2x	32	5MC	C5-C4-N3	-2.69	119.00	121.75
54	1w	37	MIA	C2-N1-C6	2.69	122.65	117.54
32	1a	1404	5MC	O2-C2-N3	-2.68	118.11	122.33
54	2y	39	PSU	O2-C2-N1	-2.67	120.03	122.79
54	1y	37	MIA	C5-N7-C8	2.65	107.61	103.45
54	2y	37	MIA	C5-N7-C8	2.64	107.60	103.45
1	1A	2515	2MA	N9-C8-N7	-2.62	110.21	113.94
55	2x	8	4SU	O2-C2-N3	-2.61	116.67	121.49
54	1y	8	4SU	C1'-N1-C2	2.60	122.27	117.59
32	2a	1519	MA6	C4-N9-C8	2.60	108.47	105.74
32	1a	1519	MA6	C4-N9-C8	2.60	108.47	105.74
54	2y	8	4SU	C1'-N1-C2	2.57	122.21	117.59
32	1a	1407	5MC	C5-C4-N3	-2.56	119.13	121.75
55	1x	8	4SU	C1'-N1-C2	2.56	122.19	117.59
32	1a	527	7MG	C5-C6-N1	2.53	115.40	110.94
1	1A	2263	OMG	C4-C5-N7	-2.53	106.67	110.67
1	1A	1964	5MC	C5-C4-N3	-2.52	119.17	121.75
54	1w	46	7MG	C5-C4-N9	-2.52	103.11	106.33
54	2y	54	5MU	C1'-N1-C2	2.51	122.10	117.59
1	2A	2605	PSU	O2-C2-N1	-2.51	120.20	122.79
32	1a	1519	MA6	C5-N7-C8	2.50	107.38	103.45
1	1A	1964	5MC	O2-C2-N3	-2.50	118.39	122.33
32	1a	967	5MC	C1'-N1-C6	-2.50	117.04	121.15
32	2a	1402	4OC	C6-C5-C4	2.49	120.00	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	967	5MC	C5-C4-N3	-2.47	119.23	121.75
32	2a	1400	5MC	C5-C4-N3	-2.47	119.23	121.75
54	2w	46	7MG	C5-C4-N9	-2.47	103.18	106.33
1	2A	2503	2MA	N9-C8-N7	-2.45	110.45	113.94
32	1a	1518	MA6	C4-N9-C8	2.45	108.31	105.74
32	1a	966	M2G	C4-C5-N7	-2.45	106.78	110.67
32	1a	1518	MA6	C10-N6-C6	-2.43	114.33	120.52
32	1a	1518	MA6	C6-C5-N7	2.42	137.30	133.43
1	2A	2503	2MA	C5-N7-C8	2.42	107.26	103.45
32	2a	1402	4OC	O2-C2-N3	-2.42	118.52	122.33
54	2w	37	MIA	C2-N1-C6	2.42	122.13	117.54
32	1a	1498	UR3	C1'-N1-C2	2.41	120.99	117.04
1	2A	2251	OMG	C4-C5-N7	-2.41	106.85	110.67
32	2a	1518	MA6	C6-C5-N7	2.40	137.27	133.43
54	1y	54	5MU	C5M-C5-C4	2.40	121.34	118.78
54	2w	37	MIA	C11-S10-C2	-2.40	100.45	102.25
1	1A	2564	2MU	O4-C4-C5	-2.40	121.03	125.16
32	2a	966	M2G	C4-C5-N7	-2.38	106.90	110.67
55	1x	8	4SU	S4-C4-N3	-2.38	117.72	120.20
55	1x	54	5MU	C5M-C5-C4	2.38	121.32	118.78
1	1A	1937	5MU	O2-C2-N1	-2.37	119.71	122.80
54	2w	32	PSU	C6-C5-C4	-2.37	116.57	118.17
1	2A	2605	PSU	O2-C2-N3	-2.37	117.65	121.86
32	2a	967	5MC	C5-C4-N3	-2.36	119.33	121.75
32	2a	1518	MA6	C10-N6-C6	-2.35	114.54	120.52
54	2y	46	7MG	C5-C4-N9	-2.34	103.33	106.33
54	2w	37	MIA	N3-C2-N1	-2.34	122.73	127.00
1	1A	2617	PSU	C5-C6-N1	-2.32	118.92	122.14
1	1A	2564	2MU	C2'-C1'-N1	-2.32	109.84	114.24
32	1a	1207	2MG	N2-C2-N3	-2.32	117.55	120.51
32	1a	1519	MA6	C10-N6-C6	-2.31	114.63	120.52
55	2x	55	PSU	C5-C6-N1	-2.31	118.93	122.14
1	2A	2251	OMG	O6-C6-C5	-2.30	120.46	126.53
32	1a	1519	MA6	C5-C6-N6	-2.30	121.69	125.33
32	2a	1518	MA6	C10-N6-C9	-2.30	108.79	116.18
54	2y	54	5MU	C1'-N1-C6	-2.29	117.38	121.15
54	2y	46	7MG	C5-C6-N1	2.29	114.96	110.94
1	2A	1962	5MC	C1'-N1-C6	-2.28	117.40	121.15
32	2a	966	M2G	O6-C6-C5	-2.28	120.52	126.53
43	2l	92	0TD	OD1-CG-CB	-2.27	117.68	122.44
55	2x	32	5MC	O2-C2-N3	-2.27	118.75	122.33
32	2a	1519	MA6	C6-C5-N7	2.26	137.05	133.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	54	5MU	O2-C2-N3	-2.25	117.34	121.49
54	1w	46	7MG	C5-C6-N1	2.24	114.89	110.94
32	1a	1207	2MG	CM2-N2-C2	-2.23	118.85	123.65
32	2a	527	7MG	C5-C4-N9	-2.23	103.48	106.33
1	1A	1937	5MU	C5M-C5-C4	2.22	121.16	118.78
54	2w	54	5MU	C5M-C5-C4	2.22	121.16	118.78
1	1A	2515	2MA	C6-C5-N7	2.22	136.37	132.09
32	1a	967	5MC	O2-C2-N3	-2.21	118.84	122.33
32	1a	516	PSU	O4'-C1'-C2'	2.20	108.20	105.15
54	1y	46	7MG	C5-C6-N1	2.20	114.81	110.94
1	2A	2552	2MU	C2'-C1'-N1	-2.19	110.08	114.24
32	2a	1518	MA6	C4-N9-C8	2.19	108.04	105.74
1	2A	2552	2MU	O4-C4-C5	-2.19	121.39	125.16
32	2a	1498	UR3	C3U-N3-C4	2.18	120.90	117.87
55	1x	8	4SU	O2-C2-N3	-2.18	117.46	121.49
54	1w	37	MIA	N3-C2-N1	-2.18	123.03	127.00
32	1a	966	M2G	O6-C6-C5	-2.18	120.79	126.53
54	1y	37	MIA	C6-C5-N7	2.17	136.27	132.09
54	1w	37	MIA	C5-N7-C8	2.17	106.85	103.45
1	2A	1911	PSU	C5-C6-N1	-2.17	119.14	122.14
32	1a	1207	2MG	C8-N7-C5	2.16	108.11	104.26
32	2a	1519	MA6	N1-C6-N6	2.16	119.49	116.86
1	2A	1942	5MC	O2-C2-N3	-2.15	118.94	122.33
1	2A	1962	5MC	O2-C2-N3	-2.14	118.95	122.33
54	1w	37	MIA	N6-C6-N1	2.14	121.21	118.33
1	2A	2503	2MA	C2-N1-C6	2.14	121.39	118.10
55	1x	32	5MC	O2-C2-N3	-2.14	118.96	122.33
54	2w	46	7MG	O6-C6-C5	-2.14	122.37	127.62
54	1w	39	PSU	C5-C6-N1	-2.14	119.17	122.14
54	1w	54	5MU	C5M-C5-C4	2.14	121.06	118.78
32	1a	1518	MA6	C10-N6-C9	-2.14	109.32	116.18
32	1a	516	PSU	C5-C6-N1	-2.13	119.19	122.14
32	2a	1207	2MG	CM2-N2-C2	-2.12	119.09	123.65
32	1a	1402	4OC	C5-C6-N1	-2.12	118.40	121.84
32	1a	1400	5MC	O2-C2-N3	-2.12	118.99	122.33
54	2y	37	MIA	C2-N1-C6	2.11	122.19	118.73
32	1a	527	7MG	C5-C4-N9	-2.11	103.64	106.33
32	1a	1518	MA6	N9-C8-N7	-2.10	110.95	113.94
32	1a	527	7MG	O6-C6-C5	-2.10	122.47	127.62
54	2w	37	MIA	N9-C8-N7	-2.09	110.97	113.94
1	1A	2263	OMG	O6-C6-C5	-2.09	121.02	126.53
32	2a	516	PSU	O4'-C1'-C2'	2.08	108.03	105.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1917	PSU	C5-C6-N1	-2.08	119.26	122.14
54	1w	55	PSU	C6-C5-C4	-2.07	116.77	118.17
1	1A	1939	PSU	C6-C5-C4	-2.07	116.78	118.17
54	2w	39	PSU	C6-C5-C4	-2.07	116.78	118.17
1	2A	2251	OMG	C5-C6-N1	2.07	118.52	113.25
54	2y	55	PSU	O4'-C1'-C2'	2.06	108.01	105.15
55	2x	8	4SU	C1'-N1-C6	-2.06	116.38	120.78
32	1a	1498	UR3	C3U-N3-C4	2.05	120.71	117.87
54	2w	8	4SU	C1'-N1-C2	2.04	121.26	117.59
32	2a	1519	MA6	N9-C8-N7	-2.04	111.04	113.94
1	1A	2617	PSU	O2-C2-N3	-2.04	118.25	121.86
55	1x	54	5MU	O2-C2-N1	-2.03	120.16	122.80
54	1w	37	MIA	C4-N9-C8	2.03	107.86	105.74
32	1a	1519	MA6	C6-C5-N7	2.02	136.66	133.43
32	2a	516	PSU	C5-C6-N1	-2.02	119.34	122.14
54	1y	37	MIA	N9-C8-N7	-2.01	111.08	113.94
54	2w	39	PSU	O4'-C1'-C2'	2.01	107.93	105.15

There are no chirality outliers.

All (58) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	967	5MC	O4'-C4'-C5'-O5'
43	1l	92	0TD	CG-CB-SB-CSB
32	2a	1518	MA6	C5-C6-N6-C9
32	2a	1519	MA6	O4'-C4'-C5'-O5'
54	1y	8	4SU	O4'-C4'-C5'-O5'
54	1w	37	MIA	C12-C13-C14-C16
54	2w	37	MIA	C5-C6-N6-C12
54	2w	37	MIA	N1-C6-N6-C12
54	1y	46	7MG	C4'-C5'-O5'-P
54	1y	54	5MU	O4'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
54	2y	37	MIA	C3'-C4'-C5'-O5'
54	1y	54	5MU	C3'-C4'-C5'-O5'
54	2y	55	PSU	C3'-C4'-C5'-O5'
54	2y	55	PSU	O4'-C4'-C5'-O5'
32	1a	527	7MG	C3'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	2w	46	7MG	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
32	2a	1518	MA6	N1-C6-N6-C9
32	1a	967	5MC	C3'-C4'-C5'-O5'
54	2y	37	MIA	O4'-C4'-C5'-O5'
54	2w	46	7MG	C3'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C5-C6-N6-C10
32	1a	527	7MG	O4'-C4'-C5'-O5'
32	2a	527	7MG	C3'-C4'-C5'-O5'
1	1A	1937	5MU	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
54	2y	46	7MG	O4'-C1'-N9-C4
54	2y	46	7MG	C2'-C1'-N9-C8
32	1a	1518	MA6	C5-C6-N6-C10
43	2l	92	0TD	CG-CB-SB-CSB
32	2a	1519	MA6	C4'-C5'-O5'-P
54	1y	46	7MG	C2'-C1'-N9-C8
32	1a	1519	MA6	C5-C6-N6-C10
32	2a	1518	MA6	C5-C6-N6-C10
54	1w	46	7MG	C2'-C1'-N9-C8
32	1a	527	7MG	C4'-C5'-O5'-P
32	2a	527	7MG	C4'-C5'-O5'-P
32	2a	527	7MG	O4'-C4'-C5'-O5'
54	1y	8	4SU	C4'-C5'-O5'-P
1	2A	2552	2MU	O4'-C4'-C5'-O5'
54	1w	46	7MG	C4'-C5'-O5'-P
54	2w	46	7MG	C2'-C1'-N9-C8
43	1l	92	0TD	CA-CB-SB-CSB
54	2y	54	5MU	C3'-C4'-C5'-O5'
32	1a	1402	4OC	O4'-C4'-C5'-O5'
54	1y	46	7MG	O4'-C1'-N9-C8
54	1y	46	7MG	C3'-C4'-C5'-O5'
43	2l	92	0TD	CA-CB-CG-OD2
54	2y	55	PSU	C2'-C1'-C5-C6
54	2y	46	7MG	O4'-C1'-N9-C8
54	2w	46	7MG	C4'-C5'-O5'-P
54	1y	8	4SU	C2'-C1'-N1-C2
54	2y	54	5MU	C2'-C1'-N1-C2
1	1A	2515	2MA	O4'-C4'-C5'-O5'

There are no ring outliers.

40 monomers are involved in 62 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	1x	8	4SU	1	0
32	2a	966	M2G	1	0
1	2A	1920	4OC	2	0
43	1l	92	0TD	1	0
1	2A	1939	5MU	1	0
1	1A	1939	PSU	1	0
32	1a	1518	MA6	1	0
54	1y	39	PSU	1	0
54	2w	37	MIA	1	0
32	1a	1519	MA6	1	0
1	2A	2503	2MA	3	0
1	1A	2263	OMG	1	0
54	2y	37	MIA	1	0
32	2a	967	5MC	2	0
1	1A	2564	2MU	1	0
32	1a	1402	4OC	3	0
54	2y	55	PSU	7	0
54	2y	8	4SU	2	0
55	2x	8	4SU	1	0
54	2w	39	PSU	3	0
54	2w	8	4SU	3	0
32	2a	1402	4OC	3	0
54	2y	46	7MG	1	0
32	2a	1519	MA6	3	0
32	2a	516	PSU	1	0
32	1a	967	5MC	1	0
55	1x	55	PSU	1	0
1	2A	1917	PSU	1	0
54	1y	37	MIA	1	0
54	1y	8	4SU	2	0
54	2w	46	7MG	1	0
54	2y	54	5MU	1	0
55	1x	54	5MU	1	0
32	2a	1400	5MC	3	0
32	2a	1518	MA6	4	0
32	1a	966	M2G	1	0
55	2x	54	5MU	1	0
1	1A	1961	5MU	1	0
32	2a	1404	5MC	2	0
54	1y	32	PSU	1	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 3095 ligands modelled in this entry, 3085 are monoatomic - leaving 10 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	$\# Z > 2$
57	CPT	2A	3903	1	0,3,4	-	-	-		
57	CPT	2I	201	8	0,3,4	-	-	-		
57	CPT	1I	3002	8	0,3,4	-	-	-		
60	SF4	2d	501	35	0,12,12	-	-	-		
57	CPT	1A	4210	1	0,3,4	-	-	-		
57	CPT	2a	3235	32	0,3,4	-	-	-		
60	SF4	1d	501	35	0,12,12	-	-	-		
57	CPT	1A	4209	1	0,3,4	-	-	-		
57	CPT	1a	1930	32	0,3,4	-	-	-		
57	CPT	2A	3904	1	0,3,4	-	-	-		

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	501	35	-	-	0/6/5/5
60	SF4	1d	501	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.

5 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	2A	3903	CPT	1	0
57	2I	201	CPT	1	0
60	2d	501	SF4	1	0
57	1A	4209	CPT	1	0
57	1a	1930	CPT	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, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1A	2860/2915 (98%)	-0.15	102 (3%) 46 37	24, 45, 94, 107	0
1	2A	2789/2915 (95%)	-0.13	61 (2%) 62 52	27, 48, 92, 107	0
2	1B	120/121 (99%)	0.08	0 100 100	40, 60, 72, 93	0
2	2B	120/121 (99%)	0.66	2 (1%) 69 60	46, 65, 75, 93	0
3	1D	275/276 (99%)	0.09	7 (2%) 58 48	23, 43, 59, 79	0
3	2D	275/276 (99%)	0.02	3 (1%) 78 70	24, 44, 61, 79	0
4	1E	204/206 (99%)	0.23	1 (0%) 87 82	25, 50, 66, 82	0
4	2E	204/206 (99%)	0.10	2 (0%) 79 72	27, 52, 68, 85	0
5	1F	203/210 (96%)	0.24	2 (0%) 79 72	26, 54, 77, 90	0
5	2F	203/210 (96%)	0.24	2 (0%) 79 72	28, 57, 79, 89	0
6	1G	181/182 (99%)	0.85	18 (9%) 13 9	49, 69, 80, 95	0
6	2G	181/182 (99%)	1.18	24 (13%) 7 5	52, 72, 83, 98	0
7	1H	173/180 (96%)	0.87	14 (8%) 18 13	54, 68, 77, 85	0
7	2H	173/180 (96%)	1.15	20 (11%) 9 7	57, 72, 81, 86	0
8	1I	146/148 (98%)	0.74	5 (3%) 48 39	51, 75, 85, 90	0
8	2I	146/148 (98%)	0.82	6 (4%) 41 33	53, 74, 86, 92	0
9	1N	140/140 (100%)	0.58	3 (2%) 63 54	34, 51, 73, 78	0
9	2N	140/140 (100%)	0.41	0 100 100	37, 55, 75, 81	0
10	1O	122/122 (100%)	-0.22	0 100 100	25, 41, 58, 68	0
10	2O	122/122 (100%)	0.24	1 (0%) 82 75	45, 62, 74, 80	0
11	1P	149/150 (99%)	0.38	2 (1%) 75 66	27, 57, 78, 87	0
11	2P	149/150 (99%)	0.43	4 (2%) 56 46	29, 60, 79, 88	0
12	1Q	141/141 (100%)	0.32	5 (3%) 47 38	36, 53, 69, 84	0
12	2Q	141/141 (100%)	0.63	5 (3%) 47 38	38, 57, 73, 84	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	-0.03	0 100 100	32, 42, 57, 67	0
13	2R	118/118 (100%)	-0.07	0 100 100	35, 45, 58, 69	0
14	1S	110/112 (98%)	0.51	2 (1%) 67 58	45, 60, 73, 77	0
14	2S	110/112 (98%)	1.27	17 (15%) 5 4	49, 64, 76, 79	0
15	1T	131/146 (89%)	0.44	6 (4%) 37 29	42, 54, 76, 86	0
15	2T	131/146 (89%)	0.23	0 100 100	46, 57, 76, 86	0
16	1U	116/118 (98%)	0.33	3 (2%) 57 47	28, 45, 61, 75	0
16	2U	116/118 (98%)	0.27	0 100 100	34, 49, 65, 77	0
17	1V	101/101 (100%)	0.41	3 (2%) 52 42	31, 54, 70, 82	0
17	2V	101/101 (100%)	0.39	0 100 100	34, 58, 73, 81	0
18	1W	112/113 (99%)	-0.06	1 (0%) 81 74	30, 40, 64, 88	0
18	2W	112/113 (99%)	0.09	3 (2%) 56 46	33, 42, 65, 90	0
19	1X	95/96 (98%)	-0.16	1 (1%) 78 70	24, 38, 64, 78	0
19	2X	95/96 (98%)	0.46	0 100 100	43, 61, 75, 87	0
20	1Y	107/110 (97%)	0.78	6 (5%) 30 23	47, 61, 74, 84	0
20	2Y	107/110 (97%)	0.81	5 (4%) 36 29	51, 64, 76, 86	0
21	1Z	154/206 (74%)	0.74	6 (3%) 43 34	55, 73, 89, 97	0
21	2Z	160/206 (77%)	1.51	46 (28%) 1 1	58, 76, 91, 98	0
22	10	83/85 (97%)	-0.12	2 (2%) 59 49	23, 40, 62, 71	0
22	20	83/85 (97%)	1.03	10 (12%) 9 6	46, 65, 76, 84	0
23	11	97/98 (98%)	0.02	1 (1%) 79 72	27, 45, 72, 79	0
23	21	97/98 (98%)	0.36	2 (2%) 63 54	41, 56, 79, 88	0
24	12	70/72 (97%)	0.78	5 (7%) 22 16	43, 58, 71, 82	0
24	22	70/72 (97%)	0.45	0 100 100	46, 61, 75, 82	0
25	13	59/60 (98%)	0.40	1 (1%) 69 60	36, 50, 70, 83	0
25	23	59/60 (98%)	0.33	0 100 100	41, 53, 74, 84	0
26	14	69/71 (97%)	1.16	13 (18%) 3 2	68, 82, 92, 96	0
26	24	69/71 (97%)	1.35	15 (21%) 2 2	72, 83, 92, 95	0
27	15	59/60 (98%)	-0.13	1 (1%) 69 60	27, 41, 66, 71	0
27	25	59/60 (98%)	-0.01	0 100 100	29, 45, 67, 71	0
28	16	53/54 (98%)	0.04	0 100 100	41, 50, 65, 71	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.51	1 (1%) 66 57	42, 53, 67, 73	0
29	17	48/49 (97%)	0.01	1 (2%) 63 54	26, 32, 62, 71	0
29	27	48/49 (97%)	-0.25	0 100 100	28, 34, 62, 70	0
30	18	64/65 (98%)	0.34	0 100 100	35, 44, 55, 68	0
30	28	64/65 (98%)	0.32	0 100 100	38, 47, 58, 67	0
31	19	37/37 (100%)	-0.08	0 100 100	31, 40, 58, 65	0
31	29	37/37 (100%)	1.16	6 (16%) 4 4	52, 71, 80, 81	0
32	1a	1488/1521 (97%)	0.11	37 (2%) 58 48	35, 63, 92, 109	0
32	2a	1491/1521 (98%)	0.46	59 (3%) 42 33	47, 77, 96, 107	0
33	1b	231/256 (90%)	0.89	19 (8%) 17 13	65, 82, 89, 96	0
33	2b	231/256 (90%)	1.31	34 (14%) 6 4	68, 83, 90, 98	0
34	1c	206/239 (86%)	0.92	14 (6%) 23 17	63, 76, 84, 91	0
34	2c	206/239 (86%)	1.02	24 (11%) 9 7	67, 78, 86, 91	0
35	1d	208/209 (99%)	0.95	16 (7%) 19 14	59, 71, 82, 87	0
35	2d	208/209 (99%)	1.23	29 (13%) 6 5	60, 72, 83, 88	0
36	1e	148/162 (91%)	0.79	7 (4%) 36 29	57, 70, 79, 87	0
36	2e	148/162 (91%)	1.08	13 (8%) 15 11	60, 72, 81, 88	0
37	1f	100/101 (99%)	0.41	3 (3%) 52 42	48, 65, 77, 82	0
37	2f	100/101 (99%)	0.61	3 (3%) 52 42	53, 70, 79, 86	0
38	1g	155/156 (99%)	0.79	13 (8%) 17 12	63, 72, 83, 95	0
38	2g	155/156 (99%)	0.69	8 (5%) 33 25	64, 74, 84, 95	0
39	1h	137/138 (99%)	0.72	6 (4%) 39 31	59, 72, 79, 88	0
39	2h	137/138 (99%)	0.80	2 (1%) 72 63	63, 74, 81, 88	0
40	1i	127/128 (99%)	0.93	9 (7%) 22 16	49, 73, 85, 91	0
40	2i	127/128 (99%)	1.22	17 (13%) 7 5	69, 83, 91, 93	0
41	1j	97/105 (92%)	1.19	12 (12%) 8 6	60, 80, 90, 93	0
41	2j	96/105 (91%)	1.65	31 (32%) 1 1	63, 81, 91, 97	0
42	1k	114/129 (88%)	0.54	3 (2%) 57 47	53, 68, 78, 85	0
42	2k	114/129 (88%)	0.64	7 (6%) 27 20	53, 69, 79, 85	0
43	1l	121/132 (91%)	0.53	6 (4%) 34 26	45, 58, 70, 84	0
43	2l	121/132 (91%)	0.52	1 (0%) 82 75	46, 61, 72, 83	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.59	8 (6%) 25 18	50, 67, 80, 88	0
44	2m	122/126 (96%)	1.35	21 (17%) 4 3	67, 83, 89, 93	0
45	1n	60/61 (98%)	1.09	7 (11%) 9 7	62, 71, 76, 81	0
45	2n	60/61 (98%)	1.66	19 (31%) 1 1	67, 74, 80, 85	0
46	1o	88/89 (98%)	0.72	4 (4%) 38 30	55, 68, 79, 83	0
46	2o	88/89 (98%)	0.65	2 (2%) 61 51	58, 70, 80, 83	0
47	1p	82/88 (93%)	1.18	10 (12%) 8 6	57, 68, 79, 81	0
47	2p	82/88 (93%)	0.95	4 (4%) 35 27	60, 68, 78, 84	0
48	1q	99/105 (94%)	0.79	8 (8%) 18 13	57, 70, 79, 83	0
48	2q	99/105 (94%)	0.77	6 (6%) 27 20	58, 70, 81, 84	0
49	1r	68/88 (77%)	0.56	2 (2%) 53 43	58, 68, 80, 83	0
49	2r	68/88 (77%)	0.63	2 (2%) 53 43	59, 69, 80, 85	0
50	1s	83/93 (89%)	0.93	4 (4%) 35 28	67, 76, 85, 92	0
50	2s	83/93 (89%)	1.41	14 (16%) 4 3	71, 79, 86, 93	0
51	1t	96/106 (90%)	0.78	7 (7%) 21 15	59, 70, 82, 89	0
51	2t	96/106 (90%)	0.87	8 (8%) 17 12	59, 70, 82, 89	0
52	1u	23/27 (85%)	1.35	5 (21%) 2 2	64, 71, 77, 82	0
52	2u	23/27 (85%)	1.57	7 (30%) 1 1	67, 73, 79, 83	0
53	1v	13/24 (54%)	0.13	1 (7%) 19 14	43, 51, 74, 97	0
53	2v	13/24 (54%)	1.58	2 (15%) 5 4	63, 82, 98, 100	0
54	1w	67/76 (88%)	0.82	9 (13%) 7 5	49, 84, 99, 106	0
54	1y	67/76 (88%)	0.58	2 (2%) 52 42	39, 91, 99, 103	0
54	2w	65/76 (85%)	1.20	11 (16%) 4 3	62, 95, 102, 105	0
54	2y	66/76 (86%)	0.94	2 (3%) 52 42	49, 97, 101, 102	0
55	1x	72/77 (93%)	0.19	1 (1%) 73 64	33, 66, 82, 91	0
55	2x	72/77 (93%)	0.49	1 (1%) 73 64	50, 79, 88, 95	0
All	All	20873/21748 (95%)	0.37	986 (4%) 36 29	23, 63, 89, 109	0

All (986) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	1H	2	SER	6.3
45	1n	2	ALA	6.3

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Mol	Chain	Res	Type	RSRZ
34	1c	13	GLY	6.2
23	2l	2	SER	6.1
44	2m	102	ARG	5.7
44	2m	124	PRO	5.6
45	2n	2	ALA	5.6
1	1A	931	C	5.5
21	2Z	172	ALA	5.5
33	2b	237	ALA	5.4
38	1g	82	GLY	5.3
40	1i	2	GLU	5.2
32	2a	1034	G	5.0
1	1A	932	C	4.8
1	2A	883	G	4.8
1	1A	1133	G	4.7
1	1A	1103	A	4.7
32	1a	1531	A	4.7
1	1A	2134	G	4.7
6	1G	146	TYR	4.6
34	2c	198	VAL	4.6
41	2j	10	GLY	4.5
44	1m	124	PRO	4.5
26	14	50	VAL	4.5
32	2a	1149	C	4.5
1	1A	2137	G	4.5
1	1A	1139	G	4.4
32	2a	1033	G	4.4
54	1w	71	G	4.4
26	14	4	GLY	4.4
32	1a	1036	G	4.4
38	1g	80	VAL	4.3
51	1t	103	GLY	4.3
33	2b	215	LEU	4.3
1	1A	2135	U	4.3
33	2b	121	LEU	4.3
1	1A	1104	G	4.3
1	1A	1127	U	4.3
43	1l	14	GLY	4.2
1	1A	2167	C	4.2
46	1o	87	ILE	4.2
21	1Z	141	VAL	4.1
20	1Y	1	MET	4.1
41	2j	40	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
32	2a	1202	G	4.1
21	2Z	146	ILE	4.1
6	1G	182	LYS	4.0
38	1g	2	ALA	4.0
41	1j	10	GLY	4.0
40	2i	9	ARG	3.9
23	11	2	SER	3.9
1	1A	1106	U	3.8
54	1w	70	G	3.8
32	1a	1532	U	3.8
40	2i	10	ARG	3.7
44	1m	2	ALA	3.7
26	14	63	TYR	3.7
1	1A	2163	G	3.7
36	2e	74	GLY	3.7
38	2g	82	GLY	3.7
26	14	56	VAL	3.7
50	2s	2	PRO	3.7
21	2Z	173	ALA	3.7
44	2m	123	ALA	3.7
32	1a	1034	G	3.7
32	2a	1117	G	3.7
21	2Z	174	VAL	3.7
35	2d	154	ASN	3.7
41	2j	78	ASN	3.7
50	2s	71	LEU	3.7
48	1q	33	GLY	3.7
1	2A	2146	C	3.6
32	1a	1030	C	3.6
32	2a	1038	C	3.6
45	2n	39	LEU	3.6
1	2A	2119	A	3.6
1	1A	930	G	3.6
1	1A	1105	G	3.6
26	24	49	PHE	3.6
8	2I	146	ALA	3.6
53	2v	12	A	3.6
26	24	50	VAL	3.6
21	2Z	157	LEU	3.6
32	2a	1030	C	3.6
32	2a	1030(B)	C	3.6
1	1A	2168	C	3.6

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Mol	Chain	Res	Type	RSRZ
21	2Z	144	LEU	3.6
32	1a	1446	U	3.5
1	1A	929	G	3.5
1	1A	1135	G	3.5
54	2w	71	G	3.5
1	2A	896	A	3.5
32	2a	1035	A	3.5
21	2Z	149	SER	3.5
50	2s	9	VAL	3.5
33	1b	10	LEU	3.5
51	2t	24	LEU	3.5
1	1A	942	A	3.5
1	1A	1146	C	3.5
1	2A	884	C	3.5
21	2Z	147	GLY	3.5
3	1D	276	LYS	3.5
45	2n	15	LYS	3.5
1	2A	11	G	3.5
21	2Z	121	HIS	3.5
32	2a	1032	G	3.5
47	2p	82	GLN	3.5
33	2b	165	VAL	3.4
35	2d	176	LEU	3.4
41	2j	65	LEU	3.4
1	1A	1140	U	3.4
40	2i	72	GLY	3.4
26	14	54	GLY	3.4
38	2g	80	VAL	3.4
36	1e	81	GLU	3.4
1	1A	1147	U	3.4
32	1a	1447	A	3.4
41	2j	47	PHE	3.4
37	2f	21	LEU	3.4
44	2m	90	LEU	3.4
32	1a	1503	A	3.4
32	1a	1030(A)	G	3.3
32	1a	1030(B)	C	3.3
50	2s	53	ASN	3.3
54	1w	72	C	3.3
55	1x	68	C	3.3
32	1a	1023	G	3.3
15	1T	131	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
21	2Z	129	SER	3.3
18	2W	112	GLY	3.3
1	1A	1134	A	3.3
1	1A	935	C	3.3
4	2E	204	ALA	3.3
51	1t	95	ALA	3.3
21	2Z	171	ILE	3.3
32	1a	1035	A	3.3
53	2v	24	A	3.3
3	1D	275	LYS	3.2
6	2G	2	PRO	3.2
1	1A	1141	A	3.2
34	2c	2	GLY	3.2
7	2H	2	SER	3.2
21	2Z	125	LEU	3.2
7	1H	3	ARG	3.2
16	1U	117	GLN	3.2
1	1A	2164	C	3.2
40	2i	126	SER	3.2
50	2s	80	TYR	3.2
33	2b	185	ILE	3.2
1	1A	1124	U	3.2
34	2c	195	VAL	3.2
41	2j	44	VAL	3.2
26	24	65	ASP	3.2
36	2e	12	LEU	3.2
38	2g	84	ASN	3.2
33	2b	7	VAL	3.2
32	1a	1024	G	3.2
1	1A	934	A	3.1
1	1A	1144	A	3.1
6	2G	53	LEU	3.1
1	1A	933	C	3.1
1	1A	1128	U	3.1
6	1G	26	GLN	3.1
51	1t	10	LEU	3.1
6	2G	146	TYR	3.1
32	1a	204	U	3.1
1	1A	1138	C	3.1
41	1j	97	GLU	3.1
47	1p	42	ARG	3.1
34	1c	100	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
34	2c	189	ALA	3.1
12	2Q	104	PHE	3.1
34	1c	158	GLY	3.1
33	1b	127	ILE	3.1
7	1H	101	ARG	3.1
33	2b	21	ARG	3.1
35	2d	47	ARG	3.1
41	2j	32	ALA	3.1
26	24	51	ASP	3.1
4	2E	115	GLY	3.1
45	2n	38	GLY	3.1
1	1A	1142	A	3.1
1	2A	878	A	3.1
32	1a	630	G	3.1
15	1T	125	ARG	3.1
3	1D	38	LYS	3.1
12	2Q	22	LYS	3.1
1	1A	1110	C	3.1
1	2A	1536	C	3.1
7	2H	174	GLY	3.0
45	1n	57	ARG	3.0
21	2Z	170	THR	3.0
1	2A	2155	G	3.0
32	2a	1116	C	3.0
31	29	21	GLY	3.0
34	1c	14	ILE	3.0
45	2n	3	ARG	3.0
17	1V	43	GLU	3.0
33	1b	129	GLU	3.0
1	2A	2113	U	3.0
1	1A	1132	A	3.0
33	2b	122	PHE	3.0
1	1A	639	G	3.0
32	2a	1002	G	3.0
1	1A	1555	C	3.0
1	1A	2165	C	3.0
1	2A	2111	C	3.0
45	1n	8	GLU	3.0
7	2H	145	ALA	3.0
32	1a	1257	U	3.0
32	2a	1219	U	3.0
44	2m	18	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
32	2a	1004	A	3.0
14	2S	11	LYS	3.0
51	2t	103	GLY	3.0
1	1A	1145	G	3.0
1	2A	2145	C	3.0
33	1b	9	GLU	3.0
36	1e	10	MET	3.0
50	2s	82	GLY	2.9
3	1D	203	ASN	2.9
20	2Y	91	GLU	2.9
26	14	57	GLU	2.9
26	14	66	SER	2.9
1	1A	1102	G	2.9
32	1a	1033	G	2.9
32	2a	1026	G	2.9
1	1A	943	C	2.9
32	1a	163	C	2.9
1	2A	1026	U	2.9
51	1t	8	ARG	2.9
1	1A	2136	A	2.9
5	1F	89	VAL	2.9
44	2m	7	VAL	2.9
29	17	48	LYS	2.9
1	2A	2896	C	2.9
38	1g	79	ARG	2.9
1	2A	2131	G	2.9
32	2a	1031	G	2.9
54	1w	1	G	2.9
32	1a	1025	U	2.9
50	2s	52	TYR	2.9
33	1b	12	GLU	2.9
1	2A	2117	A	2.9
32	2a	1357	A	2.9
21	1Z	166	SER	2.9
52	1u	24	ARG	2.9
45	2n	7	ILE	2.9
1	1A	1111	U	2.9
54	1y	20	U	2.9
8	1I	146	ALA	2.9
32	2a	1029	C	2.8
32	2a	1203	C	2.8
31	29	8	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
33	1b	22	LYS	2.8
41	2j	55	LYS	2.8
15	1T	130	ALA	2.8
33	1b	11	LEU	2.8
41	2j	42	THR	2.8
32	1a	228	A	2.8
32	2a	1005	A	2.8
8	2I	34	GLY	2.8
44	2m	6	GLY	2.8
46	1o	65	ARG	2.8
26	24	66	SER	2.8
1	1A	2153	G	2.8
39	1h	3	THR	2.8
49	1r	25	THR	2.8
7	1H	166	GLY	2.8
11	2P	68	GLN	2.8
7	2H	124	GLU	2.8
24	12	69	ARG	2.8
20	2Y	106	LEU	2.8
1	2A	885	C	2.8
42	2k	49	GLY	2.8
39	2h	67	PRO	2.8
33	2b	135	GLN	2.8
32	2a	1251	A	2.8
54	2w	73	A	2.8
7	1H	97	ARG	2.8
8	1I	27	ARG	2.8
26	14	58	ARG	2.8
7	2H	52	VAL	2.8
36	2e	41	VAL	2.8
45	2n	18	VAL	2.8
36	1e	86	ALA	2.8
1	1A	1143	U	2.8
51	2t	9	ASN	2.8
33	2b	220	ASP	2.8
14	1S	22	GLY	2.8
41	2j	93	GLY	2.8
7	2H	36	PRO	2.8
35	2d	160	GLN	2.7
24	12	5	GLU	2.7
41	1j	29	ARG	2.7
35	2d	178	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	1A	1101	G	2.7
1	1A	1117	G	2.7
1	2A	2751	G	2.7
21	2Z	137	ILE	2.7
32	2a	1024	G	2.7
39	1h	133	LEU	2.7
44	1m	122	LYS	2.7
31	29	12	ASP	2.7
50	2s	79	THR	2.7
41	2j	41	PRO	2.7
1	1A	944	C	2.7
1	1A	2196	C	2.7
20	1Y	91	GLU	2.7
32	2a	1027	C	2.7
54	2w	2	C	2.7
21	2Z	57	ILE	2.7
21	2Z	150	LEU	2.7
22	20	84	LEU	2.7
41	2j	62	HIS	2.7
1	1A	1123	A	2.7
1	1A	2138	G	2.7
42	2k	117	ASN	2.7
3	1D	234	GLY	2.7
43	2l	63	GLY	2.7
50	1s	13	ASP	2.7
36	1e	20	GLN	2.7
7	1H	44	VAL	2.7
1	2A	894	C	2.7
33	2b	196	LEU	2.7
21	2Z	99	TYR	2.7
35	2d	165	MET	2.7
44	1m	23	TYR	2.7
44	2m	119	GLY	2.7
33	2b	189	ASP	2.7
1	1A	1114	G	2.7
1	2A	882	G	2.7
1	2A	2116	G	2.7
36	2e	20	GLN	2.7
7	2H	50	VAL	2.7
33	1b	7	VAL	2.7
33	2b	118	LEU	2.7
9	1N	47	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
35	1d	110	PHE	2.7
35	1d	195	ALA	2.7
1	2A	1509	C	2.7
41	2j	37	PRO	2.7
1	1A	2141	A	2.7
16	1U	104	GLN	2.7
6	1G	88	ILE	2.6
51	1t	13	LEU	2.7
33	2b	133	LYS	2.6
34	2c	168	ALA	2.6
1	2A	2115	G	2.6
32	2a	1030(A)	G	2.6
52	2u	14	TRP	2.6
14	1S	3	ARG	2.6
6	2G	17	PRO	2.6
7	2H	10	PRO	2.6
16	1U	102	GLU	2.6
25	13	60	GLU	2.6
32	2a	1358	U	2.6
35	1d	150	GLU	2.6
44	2m	60	VAL	2.6
38	1g	77	SER	2.6
48	1q	27	PHE	2.6
21	2Z	29	TYR	2.6
50	1s	84	GLY	2.6
43	1l	6	THR	2.6
32	1a	1029	C	2.6
36	1e	119	LEU	2.6
24	12	70	GLN	2.6
41	1j	98	ILE	2.6
32	2a	1532	U	2.6
1	1A	1130	A	2.6
1	2A	2114	A	2.6
37	1f	46	ARG	2.6
33	2b	22	LYS	2.6
1	1A	2181	G	2.6
32	2a	1003	G	2.6
41	2j	100	THR	2.6
50	2s	77	THR	2.6
52	2u	13	ILE	2.6
38	2g	37	ASN	2.6
33	1b	188	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
34	1c	65	ALA	2.6
41	2j	63	PHE	2.6
1	1A	2151	C	2.6
6	2G	49	ASP	2.6
54	2w	3	C	2.6
1	1A	1112	U	2.6
12	1Q	6	ARG	2.6
51	2t	23	ARG	2.6
1	2A	2171	A	2.6
34	2c	199	LYS	2.6
6	2G	3	LEU	2.6
34	2c	124	ILE	2.6
35	1d	5	ILE	2.6
21	2Z	164	ALA	2.6
22	20	2	ALA	2.6
33	2b	34	ALA	2.6
1	1A	2155	G	2.5
1	1A	2213	G	2.5
1	2A	2802	G	2.5
54	2w	70	G	2.5
1	1A	1122	C	2.5
1	2A	2137	C	2.5
33	1b	132	LYS	2.5
32	1a	1005	A	2.5
32	2a	1030(D)	A	2.5
43	1l	5	PRO	2.5
51	2t	98	PRO	2.5
22	20	26	TYR	2.5
33	2b	236	TYR	2.5
38	2g	85	TYR	2.5
42	2k	25	TYR	2.5
6	2G	140	ILE	2.5
24	12	1	MET	2.5
7	2H	122	THR	2.5
45	2n	22	THR	2.5
15	1T	115	ARG	2.5
41	2j	56	HIS	2.5
33	1b	133	LYS	2.5
50	2s	35	SER	2.5
1	1A	1109	G	2.5
32	2a	1001(A)	G	2.5
32	2a	1021	G	2.5

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Mol	Chain	Res	Type	RSRZ
1	1A	936	C	2.5
1	1A	2133	C	2.5
6	1G	42	GLY	2.5
33	2b	11	LEU	2.5
35	2d	2	GLY	2.5
47	1p	48	TRP	2.5
22	20	30	VAL	2.5
1	2A	2173	A	2.5
32	2a	983	A	2.5
53	1v	12	A	2.5
33	1b	17	PHE	2.5
7	2H	156	ALA	2.5
38	2g	5	ARG	2.5
39	1h	4	ASP	2.5
32	2a	1148	U	2.5
33	1b	98	LEU	2.5
7	2H	5	GLY	2.5
48	2q	82	MET	2.5
21	1Z	146	ILE	2.5
51	1t	69	GLY	2.5
14	2S	49	VAL	2.5
34	2c	138	VAL	2.5
40	2i	28	VAL	2.5
1	1A	1125	C	2.5
1	1A	2162	C	2.5
1	2A	2136	C	2.5
1	1A	2169	G	2.5
1	2A	2112	G	2.5
32	2a	630	G	2.5
34	1c	23	TYR	2.5
6	1G	35	GLU	2.5
45	2n	13	THR	2.5
50	1s	48	THR	2.5
50	2s	33	THR	2.5
1	1A	2195	A	2.5
44	2m	120	LYS	2.5
47	1p	43	LYS	2.5
7	2H	61	HIS	2.5
6	2G	139	LEU	2.5
17	1V	1	MET	2.5
5	1F	15	SER	2.5
43	1l	63	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
46	1o	86	GLY	2.5
6	1G	28	VAL	2.5
40	2i	14	VAL	2.5
47	1p	62	VAL	2.5
8	2I	29	TYR	2.5
14	2S	7	TYR	2.5
14	2S	92	TYR	2.5
21	2Z	136	PHE	2.5
26	24	67	TYR	2.5
6	2G	50	ALA	2.5
37	1f	16	GLN	2.5
40	2i	27	THR	2.5
44	1m	18	ALA	2.5
45	1n	50	LYS	2.5
1	2A	545	G	2.5
1	1A	1100	A	2.5
1	1A	2139	A	2.5
5	2F	24	LEU	2.4
44	2m	19	LEU	2.4
6	2G	38	VAL	2.4
11	2P	109	GLY	2.4
48	2q	80	GLY	2.4
50	2s	68	GLY	2.4
21	2Z	166	SER	2.4
1	1A	1072	U	2.4
1	1A	2152	U	2.4
22	20	69	PHE	2.4
33	2b	12	GLU	2.4
3	2D	276	LYS	2.4
20	1Y	88	LYS	2.4
34	2c	149	ALA	2.4
18	1W	60	ASN	2.4
35	2d	155	LEU	2.4
41	1j	8	LEU	2.4
54	1w	73	A	2.4
32	2a	1224	G	2.4
35	1d	102	ASP	2.4
48	1q	13	ASP	2.4
54	2y	19	G	2.4
11	2P	118	GLY	2.4
21	1Z	149	SER	2.4
52	1u	9	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
32	2a	1257	U	2.4
35	2d	98	GLU	2.4
44	2m	122	LYS	2.4
26	24	25	TYR	2.4
33	1b	19	HIS	2.4
34	2c	87	LEU	2.4
35	2d	162	LEU	2.4
40	2i	19	LEU	2.4
34	2c	5	ILE	2.4
35	2d	29	PRO	2.4
44	2m	4	ILE	2.4
1	1A	1126	C	2.4
32	1a	1006	C	2.4
40	2i	39	GLY	2.4
40	2i	65	VAL	2.4
32	1a	1030(D)	A	2.4
3	2D	38	LYS	2.4
6	1G	91	ARG	2.4
9	1N	84	LYS	2.4
35	2d	115	ARG	2.4
1	2A	352	G	2.4
12	1Q	112	GLU	2.4
32	1a	1001(A)	G	2.4
32	1a	1026	G	2.4
32	1a	1030(C)	G	2.4
10	2O	41	ALA	2.4
33	1b	237	ALA	2.4
32	2a	1150	U	2.4
33	2b	48	MET	2.4
6	2G	133	LEU	2.4
41	2j	74	ILE	2.4
44	2m	78	ILE	2.4
6	2G	142	PRO	2.4
8	2I	74	ASN	2.4
14	2S	61	ASN	2.4
41	2j	76	ASN	2.4
47	1p	41	PRO	2.4
39	1h	93	VAL	2.4
41	2j	72	VAL	2.4
42	2k	14	VAL	2.4
35	1d	18	LYS	2.4
32	1a	1027	C	2.4

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Mol	Chain	Res	Type	RSRZ
1	1A	1149	A	2.4
1	2A	2158	A	2.4
45	2n	37	PHE	2.4
11	1P	119	GLU	2.4
42	2k	74	ALA	2.4
33	1b	192	SER	2.4
40	2i	71	SER	2.4
1	1A	926	G	2.4
1	2A	892	G	2.4
1	2A	2133	G	2.4
21	2Z	69	THR	2.4
54	2w	15	G	2.4
14	2S	54	LEU	2.4
34	2c	33	LEU	2.4
36	2e	96	PRO	2.4
26	24	56	VAL	2.3
31	29	13	LYS	2.3
41	2j	28	ARG	2.3
41	2j	70	ARG	2.3
51	2t	26	ASN	2.3
7	1H	174	GLY	2.3
12	1Q	33	GLY	2.3
21	2Z	106	GLY	2.3
38	1g	81	GLY	2.3
33	2b	205	ASP	2.3
5	2F	21	ALA	2.3
18	2W	30	GLU	2.3
45	2n	30	ALA	2.3
1	1A	2210	C	2.3
32	1a	1037	C	2.3
41	2j	86	MET	2.3
22	10	3	HIS	2.3
33	2b	10	LEU	2.3
1	2A	2118	U	2.3
6	2G	20	ILE	2.3
42	2k	21	ILE	2.3
1	1A	2132	G	2.3
1	1A	2188	G	2.3
1	2A	2319	G	2.3
14	2S	85	VAL	2.3
32	1a	1003	G	2.3
35	1d	191	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
34	2c	155	GLY	2.3
40	1i	18	PHE	2.3
40	1i	59	PHE	2.3
3	2D	2	ALA	2.3
21	2Z	21	ALA	2.3
21	2Z	168	GLU	2.3
26	14	51	ASP	2.3
34	2c	162	GLN	2.3
48	1q	26	GLN	2.3
19	1X	95	LEU	2.3
32	2a	1354	C	2.3
45	2n	49	HIS	2.3
26	24	63	TYR	2.3
36	2e	116	THR	2.3
54	1w	3	C	2.3
54	2w	4	C	2.3
43	1l	7	ILE	2.3
46	2o	3	ILE	2.3
6	1G	75	LYS	2.3
33	2b	234	PRO	2.3
35	2d	49	ARG	2.3
42	1k	14	VAL	2.3
34	2c	197	GLY	2.3
28	26	20	ASN	2.3
21	2Z	89	PHE	2.3
21	2Z	104	PHE	2.3
1	1A	2123	G	2.3
1	2A	881	G	2.3
1	2A	2153	G	2.3
1	2A	2154	G	2.3
4	1E	68	ALA	2.3
11	2P	140	ALA	2.3
26	24	57	GLU	2.3
40	1i	15	ALA	2.3
24	12	52	ASP	2.3
34	1c	12	LEU	2.3
35	2d	45	GLN	2.3
47	1p	82	GLN	2.3
49	2r	66	LEU	2.3
21	2Z	151	HIS	2.3
33	2b	140	HIS	2.3
38	1g	153	HIS	2.3

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Mol	Chain	Res	Type	RSRZ
40	2i	63	ILE	2.3
51	2t	34	LYS	2.3
41	2j	87	THR	2.3
14	2S	3	ARG	2.3
35	2d	132	ARG	2.3
48	1q	68	ARG	2.3
33	2b	131	PRO	2.3
1	1A	2154	U	2.3
1	2A	2144	U	2.3
1	2A	2169	A	2.3
32	2a	1249	C	2.3
54	1w	67	C	2.3
34	2c	158	GLY	2.3
38	1g	83	ALA	2.3
35	1d	194	LEU	2.3
37	2f	94	GLN	2.3
44	1m	120	LYS	2.3
1	2A	880	G	2.3
1	2A	2149	G	2.3
2	2B	23	G	2.3
32	2a	1058	G	2.3
45	1n	7	ILE	2.3
6	1G	51	ARG	2.3
26	14	55	ARG	2.3
33	2b	190	THR	2.3
33	2b	216	SER	2.3
36	2e	125	SER	2.3
38	1g	4	ARG	2.3
40	1i	9	ARG	2.3
47	2p	48	TRP	2.3
41	2j	59	SER	2.3
52	2u	10	ARG	2.3
9	1N	140	VAL	2.3
21	2Z	96	VAL	2.3
21	2Z	167	PRO	2.3
45	2n	34	TYR	2.3
1	1A	2803	A	2.2
26	24	59	PHE	2.2
32	2a	1037	C	2.2
3	1D	28	GLU	2.2
7	1H	58	GLU	2.2
35	1d	179	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
49	1r	73	ALA	2.2
21	2Z	67	LEU	2.2
35	2d	21	LEU	2.2
39	2h	2	LEU	2.2
26	24	69	LYS	2.2
17	1V	26	ASP	2.2
21	2Z	148	ASP	2.2
41	2j	73	ASP	2.2
44	2m	22	ILE	2.2
52	1u	6	ARG	2.2
52	2u	24	ARG	2.2
6	2G	31	VAL	2.2
7	2H	56	SER	2.2
22	20	9	SER	2.2
33	1b	229	VAL	2.2
34	1c	184	TYR	2.2
40	1i	126	SER	2.2
1	2A	2159	G	2.2
32	2a	80	G	2.2
54	1w	69	G	2.2
26	24	54	GLY	2.2
33	2b	203	GLY	2.2
46	2o	89	GLY	2.2
8	1I	1	MET	2.2
6	2G	137	GLU	2.2
34	2c	187	ALA	2.2
35	2d	195	ALA	2.2
44	1m	123	ALA	2.2
45	2n	10	ALA	2.2
1	1A	572	A	2.2
32	2a	1123	A	2.2
32	2a	1503	A	2.2
35	1d	22	LYS	2.2
36	2e	47	LYS	2.2
38	2g	16	LEU	2.2
1	1A	2814	C	2.2
54	2w	68	C	2.2
54	2y	56	C	2.2
7	2H	60	ARG	2.2
14	2S	20	ARG	2.2
40	2i	66	ARG	2.2
45	1n	35	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
26	24	10	VAL	2.2
41	2j	49	VAL	2.2
21	2Z	52	SER	2.2
38	1g	85	TYR	2.2
21	2Z	143	GLY	2.2
31	29	37	GLY	2.2
40	1i	8	GLY	2.2
6	1G	80	PHE	2.2
33	2b	17	PHE	2.2
1	1A	1137	G	2.2
1	1A	2212	G	2.2
1	1A	2817	G	2.2
1	2A	2893	G	2.2
6	2G	173	LEU	2.2
11	1P	149	GLU	2.2
14	2S	32	LEU	2.2
32	2a	1036	G	2.2
32	2a	1220	G	2.2
34	2c	188	LEU	2.2
35	2d	19	LEU	2.2
39	1h	2	LEU	2.2
44	2m	27	LYS	2.2
47	2p	74	LEU	2.2
51	2t	30	LYS	2.2
32	1a	1002	G	2.2
32	1a	1032	G	2.2
54	1w	44	G	2.2
6	2G	91	ARG	2.2
7	2H	3	ARG	2.2
41	2j	23	ILE	2.2
44	2m	3	ARG	2.2
1	1A	702	A	2.2
1	2A	2170	A	2.2
32	2a	1531	A	2.2
1	1A	670	C	2.2
32	2a	1039	C	2.2
7	1H	19	VAL	2.2
31	29	16	VAL	2.2
33	2b	202	PRO	2.2
35	2d	170	VAL	2.2
34	1c	15	THR	2.2
47	1p	22	THR	2.2

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Mol	Chain	Res	Type	RSRZ
52	1u	14	TRP	2.2
6	2G	154	GLY	2.2
20	2Y	93	GLY	2.2
21	1Z	99	TYR	2.2
38	1g	154	TYR	2.2
39	1h	94	TYR	2.2
52	2u	11	GLY	2.2
8	1I	9	LEU	2.2
35	1d	108	LEU	2.2
41	2j	8	LEU	2.2
6	1G	46	ALA	2.2
8	1I	117	GLU	2.2
35	2d	192	GLU	2.2
49	2r	46	GLU	2.2
50	1s	21	GLU	2.2
40	1i	66	ARG	2.2
41	1j	76	ASN	2.2
54	2w	45	U	2.2
1	1A	1108	G	2.2
1	1A	1221	G	2.2
1	2A	2160	G	2.2
1	2A	2207	G	2.2
1	2A	2134	A	2.2
7	2H	44	VAL	2.2
15	1T	107	ASP	2.2
32	2a	1447	A	2.2
33	1b	125	PRO	2.2
33	1b	165	VAL	2.2
41	1j	58	ASP	2.2
32	2a	1028	C	2.2
21	1Z	170	THR	2.2
6	2G	182	LYS	2.2
14	2S	83	LYS	2.2
44	2m	68	GLY	2.2
26	14	49	PHE	2.2
34	1c	10	PHE	2.2
35	2d	68	TYR	2.2
6	1G	53	LEU	2.2
14	2S	80	LEU	2.2
21	2Z	70	LEU	2.2
41	2j	88	LEU	2.2
48	2q	99	SER	2.2

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Mol	Chain	Res	Type	RSRZ
40	2i	13	ALA	2.2
7	1H	4	ILE	2.1
20	1Y	50	ARG	2.1
21	2Z	122	ARG	2.1
34	1c	84	ILE	2.1
44	1m	3	ARG	2.1
14	2S	68	GLN	2.1
20	2Y	57	GLN	2.1
21	2Z	27	VAL	2.1
7	1H	57	ASP	2.1
12	2Q	1	MET	2.1
1	1A	1131	A	2.1
1	1A	2174	G	2.1
22	20	43	THR	2.1
32	2a	70	G	2.1
41	1j	55	LYS	2.1
45	1n	55	GLY	2.1
38	2g	156	TRP	2.1
1	1A	2160	C	2.1
1	2A	2140	C	2.1
8	2I	68	LEU	2.1
32	1a	225	C	2.1
41	1j	11	PHE	2.1
47	2p	38	TYR	2.1
34	2c	137	ALA	2.1
35	2d	83	SER	2.1
41	2j	35	SER	2.1
21	2Z	169	GLU	2.1
35	1d	59	ARG	2.1
35	1d	153	ARG	2.1
6	1G	144	ILE	2.1
34	2c	182	ILE	2.1
18	2W	111	HIS	2.1
22	20	3	HIS	2.1
20	1Y	92	ASN	2.1
35	1d	154	ASN	2.1
1	1A	1129	U	2.1
7	1H	45	VAL	2.1
7	2H	37	VAL	2.1
15	1T	89	VAL	2.1
20	1Y	7	VAL	2.1
33	2b	15	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
7	2H	41	MET	2.1
21	2Z	156	LYS	2.1
3	1D	200	ASP	2.1
6	1G	89	GLY	2.1
6	1G	145	THR	2.1
47	1p	69	THR	2.1
48	1q	7	THR	2.1
52	2u	2	GLY	2.1
35	2d	108	LEU	2.1
42	2k	125	PHE	2.1
44	2m	96	LEU	2.1
6	2G	29	TRP	2.1
6	2G	118	ARG	2.1
36	2e	17	ALA	2.1
37	2f	59	TYR	2.1
38	1g	78	ARG	2.1
42	1k	25	TYR	2.1
1	2A	2151	G	2.1
1	2A	2152	G	2.1
21	2Z	145	GLU	2.1
40	2i	81	ILE	2.1
45	2n	42	ILE	2.1
1	1A	2183	C	2.1
1	1A	2200	C	2.1
32	2a	1218	C	2.1
35	2d	119	GLN	2.1
22	20	5	LYS	2.1
27	15	60	VAL	2.1
43	1l	18	VAL	2.1
45	2n	54	PRO	2.1
48	2q	87	LYS	2.1
54	2w	66	U	2.1
55	2x	47	U	2.1
34	2c	41	GLY	2.1
35	1d	124	GLY	2.1
41	1j	52	GLY	2.1
50	2s	12	ASP	2.1
47	1p	59	TRP	2.1
6	2G	35	GLU	2.1
26	14	67	TYR	2.1
26	24	5	ILE	2.1
34	2c	60	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
41	1j	95	GLU	2.1
1	1A	2191	A	2.1
32	2a	1250	A	2.1
32	2a	1252	A	2.1
32	2a	1285	A	2.1
1	2A	2156	G	2.1
1	2A	2168	G	2.1
32	2a	89	C	2.1
54	1y	56	C	2.1
41	2j	34	VAL	2.1
48	2q	9	VAL	2.1
12	2Q	99	PRO	2.1
21	2Z	159	PRO	2.1
45	2n	14	PRO	2.1
41	1j	69	ASN	2.1
14	2S	24	LEU	2.1
34	1c	32	LEU	2.1
1	2A	877	U	2.1
1	2A	2132	U	2.1
12	1Q	15	GLY	2.1
35	1d	2	GLY	2.1
12	1Q	10	ARG	2.1
40	2i	128	ARG	2.1
45	2n	23	ARG	2.1
33	2b	188	ALA	2.1
36	2e	13	ILE	2.1
50	2s	75	ALA	2.1
33	2b	86	GLU	2.1
6	2G	155	MET	2.0
48	1q	93	GLN	2.0
1	1A	1119	A	2.0
8	2I	21	VAL	2.0
14	2S	14	VAL	2.0
21	2Z	161	VAL	2.0
32	1a	1286	A	2.0
47	1p	21	VAL	2.0
52	2u	23	PRO	2.0
1	1A	1121	C	2.0
1	1A	2150	C	2.0
1	2A	2174	C	2.0
6	2G	172	LEU	2.0
14	2S	56	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
34	1c	47	LEU	2.0
34	1c	52	LEU	2.0
35	2d	96	LEU	2.0
48	2q	43	LEU	2.0
1	1A	2176	G	2.0
2	2B	119	G	2.0
7	1H	66	GLY	2.0
32	1a	226	G	2.0
32	1a	1138	G	2.0
32	2a	631	G	2.0
32	2a	1030(C)	G	2.0
35	2d	117	ALA	2.0
6	1G	30	GLU	2.0
21	2Z	138	GLU	2.0
22	20	68	GLU	2.0
23	21	83	GLU	2.0
33	2b	134	GLU	2.0
46	1o	41	GLU	2.0
42	1k	51	LYS	2.0
48	1q	100	LYS	2.0
20	2Y	1	MET	2.0
7	2H	43	VAL	2.0
21	2Z	42	VAL	2.0
21	2Z	90	VAL	2.0
36	1e	38	GLN	2.0
44	2m	15	VAL	2.0
1	2A	2126	A	2.0
32	1a	149	A	2.0
32	2a	1248	A	2.0
26	14	62	ARG	2.0
37	1f	47	ARG	2.0
22	10	6	GLY	2.0
34	2c	128	PHE	2.0
35	2d	16	GLY	2.0
35	2d	124	GLY	2.0
45	2n	16	PHE	2.0
1	2A	886	C	2.0
21	2Z	53	ILE	2.0
32	2a	328	C	2.0
36	1e	89	ILE	2.0
40	1i	81	ILE	2.0
54	2w	13	C	2.0

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Mol	Chain	Res	Type	RSRZ
14	2S	55	ALA	2.0
51	1t	71	THR	2.0
52	1u	8	THR	2.0
6	1G	49	ASP	2.0
1	1A	927	G	2.0
1	1A	2173	G	2.0
1	2A	2157	G	2.0
7	1H	116	GLU	2.0
12	2Q	139	GLU	2.0
36	2e	81	GLU	2.0
36	2e	83	GLU	2.0
36	2e	88	LYS	2.0
44	2m	67	GLU	2.0
38	1g	156	TRP	2.0
7	2H	45	VAL	2.0
34	2c	151	VAL	2.0
35	2d	112	VAL	2.0
40	2i	109	VAL	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, 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
54	7MG	2w	46	24/25	0.57	0.16	86,100,114,145	0
54	5MU	2y	54	21/22	0.59	0.16	82,92,106,130	0
54	7MG	1y	46	24/25	0.60	0.15	83,94,107,126	0
54	5MU	1y	54	21/22	0.61	0.15	73,89,102,120	0
54	7MG	1w	46	24/25	0.65	0.15	74,87,111,126	0
54	4SU	2y	8	20/21	0.67	0.13	89,98,109,120	0
54	PSU	2y	55	20/21	0.67	0.16	92,98,114,119	0
54	7MG	2y	46	24/25	0.68	0.15	93,98,105,125	0
54	PSU	1y	55	20/21	0.70	0.12	86,98,106,123	0
54	4SU	2w	8	20/21	0.72	0.14	84,95,110,123	0
54	MIA	2y	37	22/30	0.73	0.13	71,86,96,112	0
54	4SU	1y	8	20/21	0.77	0.13	87,98,107,113	0
54	MIA	1y	37	22/30	0.78	0.12	65,81,88,93	0
54	PSU	2y	32	20/21	0.79	0.14	74,90,101,111	0
54	PSU	2y	39	20/21	0.79	0.13	74,86,97,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
54	PSU	2w	55	20/21	0.80	0.11	66,88,96,96	0
54	4SU	1w	8	20/21	0.83	0.13	75,82,99,108	0
54	5MU	2w	54	21/22	0.83	0.10	62,80,88,92	0
32	2MG	2a	1207	24/25	0.83	0.12	70,80,89,102	0
54	PSU	1w	55	20/21	0.85	0.09	67,77,89,95	0
55	4SU	2x	8	20/21	0.85	0.13	66,79,93,93	0
55	PSU	2x	55	20/21	0.85	0.12	73,79,92,97	0
54	PSU	1y	32	20/21	0.86	0.11	68,86,94,94	0
54	PSU	1y	39	20/21	0.86	0.11	69,80,87,89	0
55	5MU	2x	54	21/22	0.87	0.12	74,83,90,105	0
54	PSU	2w	32	20/21	0.87	0.16	67,83,98,106	0
55	PSU	1x	55	20/21	0.89	0.09	62,72,91,96	0
55	5MU	1x	54	21/22	0.89	0.12	56,73,78,85	0
43	0TD	2l	92	10/11	0.90	0.14	53,60,64,85	0
1	5MU	2A	1915	21/22	0.90	0.10	52,64,68,68	0
32	M2G	2a	966	25/26	0.91	0.15	53,67,78,82	0
32	5MC	2a	1400	21/22	0.92	0.14	50,68,78,89	0
32	4OC	2a	1402	22/23	0.92	0.13	52,64,71,74	0
1	PSU	2A	1917	20/21	0.92	0.09	52,62,66,70	0
1	5MU	1A	1937	21/22	0.93	0.12	49,62,65,68	0
54	MIA	2w	37	25/30	0.93	0.12	66,79,88,95	0
43	0TD	1l	92	10/11	0.93	0.13	47,57,60,73	0
32	7MG	2a	527	24/25	0.94	0.11	52,64,75,87	0
32	2MG	1a	1207	24/25	0.94	0.10	56,65,69,76	0
32	5MC	2a	967	21/22	0.94	0.11	57,71,78,79	0
55	4SU	1x	8	20/21	0.94	0.10	50,61,71,83	0
1	PSU	2A	1911	20/21	0.94	0.08	42,57,65,65	0
55	5MC	2x	32	21/22	0.94	0.11	65,72,77,83	0
1	5MC	2A	1962	21/22	0.94	0.10	37,42,53,60	0
54	PSU	1w	32	20/21	0.94	0.12	58,66,79,81	0
54	PSU	2w	39	20/21	0.94	0.09	61,81,86,87	0
32	PSU	2a	516	20/21	0.94	0.09	54,68,81,87	0
32	5MC	2a	1404	21/22	0.95	0.10	47,56,60,67	0
32	UR3	2a	1498	21/22	0.95	0.09	49,56,60,69	0
32	MA6	2a	1518	24/25	0.95	0.10	50,65,75,80	0
1	5MC	2A	1942	21/22	0.95	0.10	42,53,59,66	0
1	PSU	1A	1939	20/21	0.95	0.10	50,57,64,65	0
1	4OC	2A	1920	21/23	0.95	0.08	43,52,58,61	0
32	PSU	1a	516	20/21	0.96	0.07	39,51,60,64	0
32	7MG	1a	527	24/25	0.96	0.09	37,48,54,61	0
32	M2G	1a	966	25/26	0.96	0.10	46,54,60,69	0
55	5MC	1x	32	21/22	0.96	0.09	42,47,58,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	5MC	2a	1407	21/22	0.96	0.09	40,55,59,68	0
1	PSU	1A	1933	20/21	0.96	0.09	38,55,63,65	0
1	5MU	2A	1939	21/22	0.96	0.08	28,34,38,40	0
32	MA6	2a	1519	24/25	0.96	0.11	44,61,71,73	0
1	5MC	1A	1964	21/22	0.96	0.09	39,51,57,64	0
54	MIA	1w	37	29/30	0.97	0.10	31,47,60,67	0
1	PSU	2A	2605	20/21	0.97	0.07	25,32,38,38	0
1	4OC	1A	1942	21/23	0.97	0.09	37,48,53,57	0
32	5MC	1a	967	21/22	0.97	0.08	45,53,65,65	0
54	PSU	1w	39	20/21	0.97	0.07	35,56,64,66	0
1	2MU	1A	2564	21/23	0.97	0.08	29,36,42,46	0
32	5MC	1a	1400	21/22	0.97	0.10	31,45,56,63	0
32	4OC	1a	1402	22/23	0.97	0.08	34,43,56,68	0
32	5MC	1a	1404	21/22	0.97	0.08	30,36,44,47	0
32	5MC	1a	1407	21/22	0.97	0.08	31,42,48,51	0
32	MA6	1a	1519	24/25	0.97	0.08	35,39,47,51	0
1	OMG	2A	2251	24/25	0.97	0.07	29,36,40,41	0
54	5MU	1w	54	21/22	0.97	0.06	48,62,67,73	0
1	2MA	2A	2503	23/24	0.97	0.07	22,28,37,40	0
1	OMG	1A	2263	24/25	0.98	0.06	24,33,37,37	0
1	2MA	1A	2515	23/24	0.98	0.07	20,27,33,37	0
1	5MU	1A	1961	21/22	0.98	0.07	25,31,36,41	0
1	5MC	1A	1984	21/22	0.98	0.08	33,39,46,58	0
32	UR3	1a	1498	21/22	0.98	0.06	29,37,45,49	0
1	2MU	2A	2552	21/23	0.98	0.07	29,38,45,51	0
32	MA6	1a	1518	24/25	0.98	0.07	30,41,47,50	0
1	PSU	1A	2617	20/21	0.99	0.05	25,30,34,35	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($\text{\AA}^2$)	Q<0.9
56	MG	2a	3204	1/1	0.18	0.38	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1B	227	1/1	0.24	0.16	106,106,106,106	0
56	MG	2B	3011	1/1	0.36	0.25	95,95,95,95	0
56	MG	2a	3109	1/1	0.40	0.31	89,89,89,89	0
56	MG	1a	1864	1/1	0.45	0.17	94,94,94,94	0
56	MG	2a	3029	1/1	0.46	0.69	90,90,90,90	0
56	MG	2A	3582	1/1	0.48	0.29	76,76,76,76	0
56	MG	1B	228	1/1	0.49	0.24	80,80,80,80	0
56	MG	2j	8002	1/1	0.51	0.17	79,79,79,79	0
56	MG	2x	102	1/1	0.53	0.27	71,71,71,71	0
56	MG	2A	3769	1/1	0.57	0.22	54,54,54,54	0
56	MG	2a	3057	1/1	0.58	0.16	97,97,97,97	0
56	MG	2a	3229	1/1	0.60	0.20	81,81,81,81	0
56	MG	1A	4153	1/1	0.60	0.21	90,90,90,90	0
56	MG	1a	1658	1/1	0.60	0.23	84,84,84,84	0
56	MG	1A	4068	1/1	0.61	0.26	83,83,83,83	0
56	MG	2a	3194	1/1	0.61	0.36	77,77,77,77	0
56	MG	2a	3064	1/1	0.61	0.24	83,83,83,83	0
56	MG	2A	3672	1/1	0.63	0.17	68,68,68,68	0
56	MG	2j	8001	1/1	0.64	0.14	80,80,80,80	0
56	MG	1A	4146	1/1	0.65	0.59	80,80,80,80	0
56	MG	2A	3097	1/1	0.65	0.19	64,64,64,64	0
56	MG	2A	3688	1/1	0.65	0.16	68,68,68,68	0
56	MG	1a	1839	1/1	0.66	0.25	69,69,69,69	0
56	MG	2a	3222	1/1	0.66	0.20	94,94,94,94	0
56	MG	2A	3765	1/1	0.67	0.22	62,62,62,62	0
56	MG	2A	3392	1/1	0.67	0.24	72,72,72,72	0
56	MG	1y	3005	1/1	0.68	0.13	83,83,83,83	0
56	MG	1a	1615	1/1	0.68	0.20	87,87,87,87	0
56	MG	2A	3792	1/1	0.68	0.37	61,61,61,61	0
56	MG	10	102	1/1	0.68	0.37	77,77,77,77	0
56	MG	2A	3726	1/1	0.68	0.18	64,64,64,64	0
56	MG	1a	1783	1/1	0.69	0.28	88,88,88,88	0
56	MG	2A	3064	1/1	0.69	0.20	64,64,64,64	0
56	MG	2a	3060	1/1	0.69	0.19	82,82,82,82	0
56	MG	2A	3665	1/1	0.69	0.12	53,53,53,53	0
56	MG	1x	102	1/1	0.69	0.36	74,74,74,74	0
56	MG	2A	3284	1/1	0.69	0.10	56,56,56,56	0
56	MG	1a	1725	1/1	0.70	0.19	62,62,62,62	0
56	MG	2A	3757	1/1	0.70	0.13	54,54,54,54	0
56	MG	1A	3112	1/1	0.70	0.22	54,54,54,54	0
56	MG	1A	4215	1/1	0.71	0.17	73,73,73,73	0
56	MG	1B	219	1/1	0.71	0.27	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3221	1/1	0.71	0.30	81,81,81,81	0
56	MG	1A	3468	1/1	0.71	0.27	68,68,68,68	0
56	MG	1A	3356	1/1	0.71	0.27	76,76,76,76	0
56	MG	2a	3236	1/1	0.71	0.14	65,65,65,65	0
56	MG	2A	3301	1/1	0.71	0.15	64,64,64,64	0
56	MG	2A	3853	1/1	0.71	0.18	63,63,63,63	0
56	MG	2a	3115	1/1	0.71	0.29	61,61,61,61	0
56	MG	1w	111	1/1	0.72	0.21	84,84,84,84	0
56	MG	1A	4085	1/1	0.72	0.15	99,99,99,99	0
56	MG	2A	3872	1/1	0.72	0.17	63,63,63,63	0
56	MG	2A	3761	1/1	0.72	0.43	47,47,47,47	0
56	MG	1B	234	1/1	0.72	0.24	78,78,78,78	0
56	MG	2a	3195	1/1	0.72	0.23	85,85,85,85	0
56	MG	1A	3565	1/1	0.72	0.17	67,67,67,67	0
56	MG	2a	3185	1/1	0.73	0.17	87,87,87,87	0
56	MG	1a	1845	1/1	0.73	0.28	75,75,75,75	0
56	MG	2B	3014	1/1	0.73	0.21	81,81,81,81	0
56	MG	1x	109	1/1	0.73	0.28	74,74,74,74	0
56	MG	2a	3031	1/1	0.73	0.22	76,76,76,76	0
56	MG	1A	4166	1/1	0.73	0.17	70,70,70,70	0
56	MG	1a	1871	1/1	0.73	0.16	79,79,79,79	0
56	MG	1a	1918	1/1	0.73	0.18	75,75,75,75	0
56	MG	2A	3215	1/1	0.73	0.20	61,61,61,61	0
56	MG	1A	3355	1/1	0.73	0.18	60,60,60,60	0
56	MG	2v	102	1/1	0.73	0.22	93,93,93,93	0
56	MG	2a	3155	1/1	0.73	0.14	91,91,91,91	0
56	MG	2A	3042	1/1	0.74	0.29	59,59,59,59	0
56	MG	1a	1707	1/1	0.74	0.21	59,59,59,59	0
56	MG	1A	3375	1/1	0.74	0.21	60,60,60,60	0
56	MG	2A	3165	1/1	0.74	0.17	72,72,72,72	0
56	MG	1a	1899	1/1	0.74	0.12	86,86,86,86	0
56	MG	1a	1751	1/1	0.74	0.41	78,78,78,78	0
56	MG	2A	3771	1/1	0.74	0.15	47,47,47,47	0
56	MG	1w	103	1/1	0.74	0.47	80,80,80,80	0
56	MG	2A	3832	1/1	0.74	0.15	69,69,69,69	0
56	MG	2A	3358	1/1	0.74	0.26	78,78,78,78	0
56	MG	1A	4010	1/1	0.74	0.20	85,85,85,85	0
56	MG	2A	3885	1/1	0.74	0.17	50,50,50,50	0
56	MG	1a	1644	1/1	0.74	0.31	79,79,79,79	0
56	MG	1Z	302	1/1	0.74	0.13	64,64,64,64	0
56	MG	2B	3015	1/1	0.74	0.20	62,62,62,62	0
56	MG	25	103	1/1	0.74	0.22	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3002	1/1	0.74	0.22	72,72,72,72	0
56	MG	2a	3026	1/1	0.74	0.28	88,88,88,88	0
56	MG	1a	1859	1/1	0.74	0.32	77,77,77,77	0
56	MG	2A	3820	1/1	0.75	0.19	75,75,75,75	0
56	MG	2A	3476	1/1	0.75	0.24	63,63,63,63	0
56	MG	2a	3089	1/1	0.75	0.30	70,70,70,70	0
56	MG	1A	3890	1/1	0.75	0.12	65,65,65,65	0
56	MG	2A	3058	1/1	0.75	0.22	68,68,68,68	0
56	MG	1A	3949	1/1	0.75	0.28	41,41,41,41	0
56	MG	1A	3296	1/1	0.75	0.24	53,53,53,53	0
56	MG	2l	3001	1/1	0.75	0.25	62,62,62,62	0
56	MG	2a	3044	1/1	0.75	0.15	70,70,70,70	0
56	MG	2w	103	1/1	0.75	0.12	83,83,83,83	0
56	MG	1a	1683	1/1	0.75	0.40	80,80,80,80	0
56	MG	2y	3005	1/1	0.75	0.15	79,79,79,79	0
56	MG	2A	3906	1/1	0.76	0.13	64,64,64,64	0
56	MG	2a	3140	1/1	0.76	0.15	95,95,95,95	0
56	MG	2A	3913	1/1	0.76	0.34	46,46,46,46	0
56	MG	1A	3409	1/1	0.76	0.21	64,64,64,64	0
56	MG	2A	3743	1/1	0.76	0.24	79,79,79,79	0
56	MG	1a	1723	1/1	0.76	0.35	69,69,69,69	0
56	MG	1B	230	1/1	0.76	0.11	82,82,82,82	0
56	MG	2A	3374	1/1	0.76	0.26	76,76,76,76	0
56	MG	2a	3015	1/1	0.76	0.23	63,63,63,63	0
56	MG	2A	3068	1/1	0.76	0.14	56,56,56,56	0
56	MG	2A	3400	1/1	0.76	0.28	77,77,77,77	0
56	MG	1a	1750	1/1	0.76	0.38	75,75,75,75	0
56	MG	1a	1664	1/1	0.76	0.18	62,62,62,62	0
56	MG	2A	3174	1/1	0.76	0.16	66,66,66,66	0
56	MG	1A	4141	1/1	0.76	0.12	63,63,63,63	0
56	MG	2A	3683	1/1	0.76	0.10	49,49,49,49	0
56	MG	2A	3873	1/1	0.76	0.23	57,57,57,57	0
56	MG	2A	3264	1/1	0.76	0.18	60,60,60,60	0
56	MG	1a	1726	1/1	0.77	0.33	85,85,85,85	0
56	MG	2a	3170	1/1	0.77	0.14	79,79,79,79	0
56	MG	2a	3174	1/1	0.77	0.11	88,88,88,88	0
56	MG	2A	3380	1/1	0.77	0.19	67,67,67,67	0
56	MG	1A	3467	1/1	0.77	0.16	65,65,65,65	0
56	MG	1G	3005	1/1	0.77	0.15	65,65,65,65	0
56	MG	2A	3104	1/1	0.77	0.14	60,60,60,60	0
56	MG	1a	1682	1/1	0.77	0.20	69,69,69,69	0
56	MG	1A	3351	1/1	0.77	0.19	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3854	1/1	0.77	0.18	42,42,42,42	0
56	MG	2A	3190	1/1	0.77	0.30	64,64,64,64	0
56	MG	1a	1694	1/1	0.77	0.23	62,62,62,62	0
56	MG	1x	110	1/1	0.77	0.24	75,75,75,75	0
56	MG	2a	3068	1/1	0.77	0.23	71,71,71,71	0
56	MG	1A	3427	1/1	0.77	0.11	44,44,44,44	0
56	MG	1A	4046	1/1	0.77	0.18	69,69,69,69	0
56	MG	2A	3321	1/1	0.77	0.12	62,62,62,62	0
56	MG	2x	103	1/1	0.77	0.20	83,83,83,83	0
56	MG	1A	3817	1/1	0.77	0.16	67,67,67,67	0
56	MG	1a	1804	1/1	0.78	0.44	67,67,67,67	0
56	MG	2A	3182	1/1	0.78	0.21	62,62,62,62	0
56	MG	1A	3091	1/1	0.78	0.45	72,72,72,72	0
56	MG	1A	4072	1/1	0.78	0.23	95,95,95,95	0
56	MG	2A	3255	1/1	0.78	0.27	60,60,60,60	0
56	MG	1x	117	1/1	0.78	0.16	78,78,78,78	0
56	MG	2A	3696	1/1	0.78	0.14	50,50,50,50	0
56	MG	1A	3457	1/1	0.78	0.24	63,63,63,63	0
56	MG	2a	3193	1/1	0.78	0.21	63,63,63,63	0
56	MG	1a	1641	1/1	0.78	0.18	73,73,73,73	0
56	MG	1a	1866	1/1	0.78	0.16	62,62,62,62	0
56	MG	2a	3196	1/1	0.78	0.24	71,71,71,71	0
56	MG	2A	3324	1/1	0.78	0.25	57,57,57,57	0
56	MG	1A	3383	1/1	0.78	0.19	72,72,72,72	0
56	MG	2a	3021	1/1	0.78	0.20	72,72,72,72	0
56	MG	2a	3024	1/1	0.78	0.27	65,65,65,65	0
56	MG	2A	3373	1/1	0.78	0.26	72,72,72,72	0
56	MG	1A	3358	1/1	0.78	0.13	64,64,64,64	0
56	MG	1A	3425	1/1	0.78	0.17	54,54,54,54	0
56	MG	2A	3796	1/1	0.78	0.22	64,64,64,64	0
56	MG	2A	3816	1/1	0.78	0.28	75,75,75,75	0
56	MG	2A	3387	1/1	0.78	0.23	64,64,64,64	0
56	MG	1a	1679	1/1	0.78	0.34	75,75,75,75	0
56	MG	2a	3066	1/1	0.78	0.24	77,77,77,77	0
56	MG	1A	4066	1/1	0.78	0.17	82,82,82,82	0
57	CPT	1a	1930	4/5	0.78	0.29	60,62,73,353	0
56	MG	1w	108	1/1	0.79	0.18	63,63,63,63	0
56	MG	1A	4035	1/1	0.79	0.13	39,39,39,39	0
56	MG	1A	3244	1/1	0.79	0.11	55,55,55,55	0
56	MG	2A	3212	1/1	0.79	0.10	58,58,58,58	0
56	MG	2A	3489	1/1	0.79	0.21	82,82,82,82	0
56	MG	2A	3521	1/1	0.79	0.13	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3169	1/1	0.79	0.14	80,80,80,80	0
56	MG	1A	3862	1/1	0.79	0.13	31,31,31,31	0
56	MG	2A	3222	1/1	0.79	0.16	72,72,72,72	0
56	MG	1a	1611	1/1	0.79	0.24	63,63,63,63	0
56	MG	1a	1861	1/1	0.79	0.09	102,102,102,102	0
56	MG	1A	3888	1/1	0.79	0.14	54,54,54,54	0
56	MG	2B	3016	1/1	0.79	0.18	63,63,63,63	0
56	MG	2B	3020	1/1	0.79	0.27	75,75,75,75	0
56	MG	2A	3287	1/1	0.79	0.34	60,60,60,60	0
56	MG	1A	3507	1/1	0.79	0.30	72,72,72,72	0
56	MG	2a	3004	1/1	0.79	0.20	68,68,68,68	0
56	MG	2A	3317	1/1	0.79	0.20	53,53,53,53	0
56	MG	1A	3915	1/1	0.79	0.16	51,51,51,51	0
56	MG	1A	3413	1/1	0.79	0.17	54,54,54,54	0
56	MG	2A	3340	1/1	0.79	0.17	75,75,75,75	0
56	MG	2A	3354	1/1	0.79	0.15	69,69,69,69	0
56	MG	1A	3600	1/1	0.79	0.29	64,64,64,64	0
56	MG	2A	3362	1/1	0.79	0.10	61,61,61,61	0
56	MG	1w	101	1/1	0.79	0.29	87,87,87,87	0
56	MG	1D	311	1/1	0.79	0.10	51,51,51,51	0
56	MG	1w	107	1/1	0.79	0.22	70,70,70,70	0
56	MG	2A	3831	1/1	0.79	0.11	57,57,57,57	0
56	MG	1A	3352	1/1	0.80	0.16	66,66,66,66	0
56	MG	2a	3023	1/1	0.80	0.15	72,72,72,72	0
56	MG	2A	3206	1/1	0.80	0.18	59,59,59,59	0
56	MG	1a	1742	1/1	0.80	0.34	73,73,73,73	0
56	MG	2A	3713	1/1	0.80	0.11	63,63,63,63	0
56	MG	1A	3256	1/1	0.80	0.21	73,73,73,73	0
56	MG	1A	3649	1/1	0.80	0.41	79,79,79,79	0
56	MG	2A	3756	1/1	0.80	0.14	40,40,40,40	0
56	MG	2A	3227	1/1	0.80	0.34	62,62,62,62	0
56	MG	1a	1753	1/1	0.80	0.36	74,74,74,74	0
56	MG	1A	3898	1/1	0.80	0.16	54,54,54,54	0
56	MG	2a	3231	1/1	0.80	0.28	77,77,77,77	0
56	MG	2a	3234	1/1	0.80	0.34	76,76,76,76	0
56	MG	1a	1797	1/1	0.80	0.29	66,66,66,66	0
56	MG	2A	3091	1/1	0.80	0.20	55,55,55,55	0
56	MG	1A	3800	1/1	0.80	0.18	57,57,57,57	0
56	MG	1A	3554	1/1	0.80	0.15	53,53,53,53	0
56	MG	2a	3120	1/1	0.80	0.20	77,77,77,77	0
56	MG	2a	3124	1/1	0.80	0.30	81,81,81,81	0
56	MG	1a	1713	1/1	0.80	0.15	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3143	1/1	0.80	0.16	82,82,82,82	0
56	MG	1a	1646	1/1	0.80	0.29	59,59,59,59	0
56	MG	1B	208	1/1	0.80	0.19	71,71,71,71	0
56	MG	2a	3090	1/1	0.81	0.22	64,64,64,64	0
56	MG	2A	3892	1/1	0.81	0.14	52,52,52,52	0
56	MG	2A	3897	1/1	0.81	0.18	71,71,71,71	0
56	MG	2A	3313	1/1	0.81	0.13	71,71,71,71	0
56	MG	1A	3692	1/1	0.81	0.17	73,73,73,73	0
56	MG	1a	1763	1/1	0.81	0.23	65,65,65,65	0
56	MG	2A	3204	1/1	0.81	0.12	58,58,58,58	0
56	MG	1A	3233	1/1	0.81	0.26	65,65,65,65	0
56	MG	2a	3157	1/1	0.81	0.15	79,79,79,79	0
56	MG	2A	3343	1/1	0.81	0.23	63,63,63,63	0
56	MG	2A	3210	1/1	0.81	0.11	61,61,61,61	0
56	MG	2E	301	1/1	0.81	0.12	53,53,53,53	0
56	MG	1a	1917	1/1	0.81	0.12	55,55,55,55	0
56	MG	1A	3802	1/1	0.81	0.17	58,58,58,58	0
56	MG	2A	3218	1/1	0.81	0.27	63,63,63,63	0
56	MG	2a	3007	1/1	0.81	0.17	70,70,70,70	0
56	MG	2a	3010	1/1	0.81	0.15	76,76,76,76	0
56	MG	1A	3369	1/1	0.81	0.28	66,66,66,66	0
56	MG	1a	1805	1/1	0.81	0.41	63,63,63,63	0
56	MG	2A	3783	1/1	0.81	0.14	42,42,42,42	0
56	MG	1a	1663	1/1	0.81	0.40	73,73,73,73	0
56	MG	2A	3261	1/1	0.81	0.11	65,65,65,65	0
56	MG	1A	3837	1/1	0.81	0.13	29,29,29,29	0
56	MG	2A	3411	1/1	0.81	0.30	52,52,52,52	0
56	MG	2A	3275	1/1	0.81	0.23	67,67,67,67	0
56	MG	2a	3047	1/1	0.81	0.30	72,72,72,72	0
56	MG	1A	3995	1/1	0.81	0.15	51,51,51,51	0
56	MG	2a	3059	1/1	0.81	0.23	61,61,61,61	0
56	MG	2A	3509	1/1	0.81	0.19	55,55,55,55	0
56	MG	1A	4115	1/1	0.81	0.11	86,86,86,86	0
56	MG	2A	3288	1/1	0.81	0.11	56,56,56,56	0
56	MG	1A	3403	1/1	0.81	0.15	53,53,53,53	0
56	MG	2A	3311	1/1	0.81	0.22	59,59,59,59	0
56	MG	13	102	1/1	0.82	0.10	46,46,46,46	0
56	MG	2A	3705	1/1	0.82	0.08	58,58,58,58	0
56	MG	1A	3595	1/1	0.82	0.19	49,49,49,49	0
56	MG	1A	4116	1/1	0.82	0.15	85,85,85,85	0
56	MG	1a	1632	1/1	0.82	0.30	62,62,62,62	0
56	MG	2A	3744	1/1	0.82	0.18	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3056	1/1	0.82	0.22	71,71,71,71	0
56	MG	1x	116	1/1	0.82	0.16	65,65,65,65	0
56	MG	1a	1778	1/1	0.82	0.43	65,65,65,65	0
56	MG	1y	3004	1/1	0.82	0.28	78,78,78,78	0
56	MG	1a	1780	1/1	0.82	0.41	70,70,70,70	0
56	MG	1a	1781	1/1	0.82	0.24	58,58,58,58	0
56	MG	2A	3057	1/1	0.82	0.14	68,68,68,68	0
56	MG	2A	3773	1/1	0.82	0.14	67,67,67,67	0
56	MG	1A	3391	1/1	0.82	0.18	71,71,71,71	0
56	MG	2a	3100	1/1	0.82	0.25	67,67,67,67	0
56	MG	2A	3330	1/1	0.82	0.15	69,69,69,69	0
56	MG	1a	1791	1/1	0.82	0.44	71,71,71,71	0
56	MG	1A	3625	1/1	0.82	0.13	66,66,66,66	0
56	MG	2A	3089	1/1	0.82	0.20	60,60,60,60	0
56	MG	2a	3139	1/1	0.82	0.17	85,85,85,85	0
56	MG	2A	3825	1/1	0.82	0.14	58,58,58,58	0
56	MG	2A	3090	1/1	0.82	0.21	71,71,71,71	0
56	MG	2A	3359	1/1	0.82	0.25	73,73,73,73	0
56	MG	1A	3937	1/1	0.82	0.14	56,56,56,56	0
56	MG	2A	3363	1/1	0.82	0.14	65,65,65,65	0
56	MG	1A	3058	1/1	0.82	0.26	60,60,60,60	0
56	MG	1A	3967	1/1	0.82	0.24	61,61,61,61	0
56	MG	1A	3367	1/1	0.82	0.17	56,56,56,56	0
56	MG	1A	3725	1/1	0.82	0.15	53,53,53,53	0
56	MG	1A	3495	1/1	0.82	0.27	48,48,48,48	0
56	MG	2A	3393	1/1	0.82	0.21	67,67,67,67	0
56	MG	1A	3297	1/1	0.82	0.27	67,67,67,67	0
56	MG	2A	3404	1/1	0.82	0.18	55,55,55,55	0
56	MG	1A	4053	1/1	0.82	0.15	41,41,41,41	0
56	MG	2A	3423	1/1	0.82	0.11	61,61,61,61	0
56	MG	2a	3225	1/1	0.82	0.16	68,68,68,68	0
56	MG	2a	3226	1/1	0.82	0.17	79,79,79,79	0
56	MG	2A	3427	1/1	0.82	0.08	58,58,58,58	0
56	MG	1a	1869	1/1	0.82	0.12	101,101,101,101	0
56	MG	1A	3519	1/1	0.82	0.17	71,71,71,71	0
56	MG	2U	203	1/1	0.82	0.28	57,57,57,57	0
56	MG	1A	3312	1/1	0.82	0.33	67,67,67,67	0
56	MG	1a	1714	1/1	0.82	0.38	75,75,75,75	0
56	MG	2A	3549	1/1	0.82	0.17	52,52,52,52	0
56	MG	2l	3002	1/1	0.82	0.15	62,62,62,62	0
56	MG	1A	3343	1/1	0.82	0.23	60,60,60,60	0
56	MG	1T	202	1/1	0.82	0.26	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2w	104	1/1	0.82	0.08	81,81,81,81	0
56	MG	1A	3576	1/1	0.82	0.12	54,54,54,54	0
56	MG	2a	3020	1/1	0.82	0.18	61,61,61,61	0
56	MG	1A	4087	1/1	0.82	0.18	79,79,79,79	0
56	MG	1a	1746	1/1	0.82	0.25	66,66,66,66	0
56	MG	2A	3762	1/1	0.83	0.12	54,54,54,54	0
56	MG	1A	3601	1/1	0.83	0.25	70,70,70,70	0
56	MG	1a	1607	1/1	0.83	0.16	71,71,71,71	0
56	MG	2A	3181	1/1	0.83	0.13	49,49,49,49	0
56	MG	1A	3603	1/1	0.83	0.11	51,51,51,51	0
56	MG	1A	3270	1/1	0.83	0.15	64,64,64,64	0
56	MG	1A	4193	1/1	0.83	0.13	49,49,49,49	0
56	MG	1a	1755	1/1	0.83	0.19	62,62,62,62	0
56	MG	1a	1637	1/1	0.83	0.33	56,56,56,56	0
56	MG	2a	3086	1/1	0.83	0.15	81,81,81,81	0
56	MG	1A	4207	1/1	0.83	0.16	60,60,60,60	0
56	MG	1A	3634	1/1	0.83	0.36	68,68,68,68	0
56	MG	2A	3396	1/1	0.83	0.22	50,50,50,50	0
56	MG	1A	3424	1/1	0.83	0.30	75,75,75,75	0
56	MG	1B	209	1/1	0.83	0.20	73,73,73,73	0
56	MG	1A	3073	1/1	0.83	0.18	52,52,52,52	0
56	MG	2A	3422	1/1	0.83	0.07	56,56,56,56	0
56	MG	1A	3906	1/1	0.83	0.16	55,55,55,55	0
56	MG	2A	3260	1/1	0.83	0.12	73,73,73,73	0
56	MG	2A	3429	1/1	0.83	0.10	55,55,55,55	0
56	MG	1A	3913	1/1	0.83	0.18	45,45,45,45	0
56	MG	2A	3902	1/1	0.83	0.19	61,61,61,61	0
56	MG	1A	3386	1/1	0.83	0.18	63,63,63,63	0
56	MG	2A	3008	1/1	0.83	0.11	41,41,41,41	0
56	MG	2B	3004	1/1	0.83	0.16	79,79,79,79	0
56	MG	2a	3176	1/1	0.83	0.17	74,74,74,74	0
56	MG	2A	3023	1/1	0.83	0.13	57,57,57,57	0
56	MG	1A	3797	1/1	0.83	0.17	49,49,49,49	0
56	MG	1A	4114	1/1	0.83	0.20	87,87,87,87	0
56	MG	2A	3657	1/1	0.83	0.12	65,65,65,65	0
56	MG	2A	3664	1/1	0.83	0.15	62,62,62,62	0
56	MG	2A	3292	1/1	0.83	0.16	55,55,55,55	0
56	MG	2A	3671	1/1	0.83	0.15	57,57,57,57	0
56	MG	20	101	1/1	0.83	0.17	60,60,60,60	0
56	MG	2A	3298	1/1	0.83	0.12	67,67,67,67	0
56	MG	28	101	1/1	0.83	0.14	75,75,75,75	0
56	MG	1a	1858	1/1	0.83	0.16	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3302	1/1	0.83	0.22	57,57,57,57	0
56	MG	1E	309	1/1	0.83	0.16	54,54,54,54	0
56	MG	1A	3501	1/1	0.83	0.19	62,62,62,62	0
56	MG	2a	3237	1/1	0.83	0.18	61,61,61,61	0
56	MG	2a	3013	1/1	0.83	0.39	66,66,66,66	0
56	MG	2A	3712	1/1	0.83	0.15	55,55,55,55	0
56	MG	2a	3018	1/1	0.83	0.16	62,62,62,62	0
56	MG	1O	3005	1/1	0.83	0.16	68,68,68,68	0
56	MG	1A	3451	1/1	0.83	0.15	63,63,63,63	0
56	MG	1A	4128	1/1	0.83	0.14	57,57,57,57	0
56	MG	1A	3987	1/1	0.83	0.13	71,71,71,71	0
56	MG	2a	3025	1/1	0.83	0.23	68,68,68,68	0
56	MG	1a	1880	1/1	0.83	0.12	51,51,51,51	0
56	MG	2A	3113	1/1	0.83	0.15	71,71,71,71	0
56	MG	2A	3153	1/1	0.83	0.19	63,63,63,63	0
56	MG	1A	4038	1/1	0.84	0.11	71,71,71,71	0
56	MG	2A	3717	1/1	0.84	0.20	55,55,55,55	0
56	MG	2A	3106	1/1	0.84	0.13	52,52,52,52	0
56	MG	1a	1724	1/1	0.84	0.18	52,52,52,52	0
56	MG	2A	3331	1/1	0.84	0.24	64,64,64,64	0
56	MG	2A	3332	1/1	0.84	0.16	53,53,53,53	0
56	MG	11	102	1/1	0.84	0.14	58,58,58,58	0
56	MG	2A	3760	1/1	0.84	0.13	64,64,64,64	0
56	MG	2A	3154	1/1	0.84	0.17	50,50,50,50	0
56	MG	1A	4168	1/1	0.84	0.15	66,66,66,66	0
56	MG	1a	1734	1/1	0.84	0.29	67,67,67,67	0
56	MG	1a	1603	1/1	0.84	0.13	87,87,87,87	0
56	MG	1a	1606	1/1	0.84	0.20	68,68,68,68	0
56	MG	2A	3185	1/1	0.84	0.19	60,60,60,60	0
56	MG	2a	3078	1/1	0.84	0.09	50,50,50,50	0
56	MG	1A	3584	1/1	0.84	0.28	57,57,57,57	0
56	MG	2A	3192	1/1	0.84	0.16	52,52,52,52	0
56	MG	2A	3379	1/1	0.84	0.10	58,58,58,58	0
56	MG	2a	3091	1/1	0.84	0.21	62,62,62,62	0
56	MG	2a	3092	1/1	0.84	0.16	77,77,77,77	0
56	MG	1A	3717	1/1	0.84	0.19	49,49,49,49	0
56	MG	2a	3106	1/1	0.84	0.25	66,66,66,66	0
56	MG	2a	3107	1/1	0.84	0.20	75,75,75,75	0
56	MG	1a	1752	1/1	0.84	0.20	63,63,63,63	0
56	MG	2A	3823	1/1	0.84	0.25	79,79,79,79	0
56	MG	1A	3164	1/1	0.84	0.36	66,66,66,66	0
56	MG	1A	3333	1/1	0.84	0.19	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3213	1/1	0.84	0.14	54,54,54,54	0
56	MG	1A	3292	1/1	0.84	0.15	62,62,62,62	0
56	MG	2A	3403	1/1	0.84	0.14	54,54,54,54	0
56	MG	2A	3217	1/1	0.84	0.16	59,59,59,59	0
56	MG	1a	1639	1/1	0.84	0.16	56,56,56,56	0
56	MG	1a	1779	1/1	0.84	0.16	56,56,56,56	0
56	MG	1B	211	1/1	0.84	0.16	62,62,62,62	0
56	MG	1A	3936	1/1	0.84	0.12	64,64,64,64	0
56	MG	2A	3900	1/1	0.84	0.09	53,53,53,53	0
56	MG	1A	3255	1/1	0.84	0.10	60,60,60,60	0
56	MG	2a	3187	1/1	0.84	0.17	78,78,78,78	0
56	MG	2a	3188	1/1	0.84	0.21	78,78,78,78	0
56	MG	2A	3445	1/1	0.84	0.12	52,52,52,52	0
56	MG	2A	3449	1/1	0.84	0.34	57,57,57,57	0
56	MG	1A	4088	1/1	0.84	0.11	62,62,62,62	0
56	MG	1A	3804	1/1	0.84	0.13	66,66,66,66	0
56	MG	1B	231	1/1	0.84	0.14	56,56,56,56	0
56	MG	2a	3216	1/1	0.84	0.16	66,66,66,66	0
56	MG	1a	1674	1/1	0.84	0.19	66,66,66,66	0
56	MG	2A	3524	1/1	0.84	0.10	49,49,49,49	0
56	MG	1A	3088	1/1	0.84	0.12	54,54,54,54	0
56	MG	2A	3563	1/1	0.84	0.17	41,41,41,41	0
56	MG	1A	3372	1/1	0.84	0.18	74,74,74,74	0
56	MG	2A	3583	1/1	0.84	0.11	56,56,56,56	0
56	MG	2A	3617	1/1	0.84	0.15	47,47,47,47	0
56	MG	2A	3644	1/1	0.84	0.14	46,46,46,46	0
56	MG	2A	3067	1/1	0.84	0.30	56,56,56,56	0
56	MG	2g	8001	1/1	0.84	0.11	61,61,61,61	0
56	MG	2a	3003	1/1	0.84	0.20	75,75,75,75	0
56	MG	1A	3373	1/1	0.84	0.31	61,61,61,61	0
56	MG	2A	3069	1/1	0.84	0.09	38,38,38,38	0
56	MG	2a	3008	1/1	0.84	0.27	67,67,67,67	0
56	MG	1A	3997	1/1	0.84	0.13	68,68,68,68	0
56	MG	2v	103	1/1	0.84	0.40	67,67,67,67	0
56	MG	2v	104	1/1	0.84	0.20	61,61,61,61	0
56	MG	2v	105	1/1	0.84	0.29	76,76,76,76	0
56	MG	2v	106	1/1	0.84	0.21	68,68,68,68	0
56	MG	2A	3308	1/1	0.84	0.16	56,56,56,56	0
56	MG	1A	3881	1/1	0.84	0.20	78,78,78,78	0
56	MG	2A	3312	1/1	0.84	0.10	60,60,60,60	0
56	MG	1A	4151	1/1	0.84	0.16	59,59,59,59	0
56	MG	2A	3315	1/1	0.84	0.22	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2y	3007	1/1	0.84	0.12	84,84,84,84	0
56	MG	1A	3691	1/1	0.84	0.19	55,55,55,55	0
56	MG	2A	3385	1/1	0.85	0.17	55,55,55,55	0
56	MG	1a	1612	1/1	0.85	0.20	62,62,62,62	0
56	MG	2A	3391	1/1	0.85	0.15	58,58,58,58	0
56	MG	1a	1756	1/1	0.85	0.14	66,66,66,66	0
56	MG	1A	3473	1/1	0.85	0.25	59,59,59,59	0
56	MG	1A	3484	1/1	0.85	0.09	58,58,58,58	0
56	MG	1A	4015	1/1	0.85	0.12	73,73,73,73	0
56	MG	2A	3809	1/1	0.85	0.15	67,67,67,67	0
56	MG	2A	3232	1/1	0.85	0.14	52,52,52,52	0
56	MG	2A	3819	1/1	0.85	0.13	64,64,64,64	0
56	MG	2A	3243	1/1	0.85	0.12	60,60,60,60	0
56	MG	2A	3410	1/1	0.85	0.19	71,71,71,71	0
56	MG	1A	3805	1/1	0.85	0.21	62,62,62,62	0
56	MG	2A	3258	1/1	0.85	0.11	55,55,55,55	0
56	MG	1A	3024	1/1	0.85	0.17	53,53,53,53	0
56	MG	2A	3425	1/1	0.85	0.12	73,73,73,73	0
56	MG	2A	3026	1/1	0.85	0.48	56,56,56,56	0
56	MG	2A	3032	1/1	0.85	0.19	57,57,57,57	0
56	MG	2a	3123	1/1	0.85	0.22	61,61,61,61	0
56	MG	1A	3192	1/1	0.85	0.22	57,57,57,57	0
56	MG	2A	3874	1/1	0.85	0.14	74,74,74,74	0
56	MG	1A	3007	1/1	0.85	0.10	52,52,52,52	0
56	MG	1A	3644	1/1	0.85	0.13	44,44,44,44	0
56	MG	2A	3484	1/1	0.85	0.20	57,57,57,57	0
56	MG	1A	3149	1/1	0.85	0.31	42,42,42,42	0
56	MG	2a	3159	1/1	0.85	0.12	62,62,62,62	0
56	MG	1B	229	1/1	0.85	0.19	66,66,66,66	0
56	MG	1a	1812	1/1	0.85	0.12	58,58,58,58	0
56	MG	1a	1813	1/1	0.85	0.20	76,76,76,76	0
56	MG	2A	3080	1/1	0.85	0.25	57,57,57,57	0
56	MG	2a	3180	1/1	0.85	0.26	70,70,70,70	0
56	MG	2a	3182	1/1	0.85	0.11	74,74,74,74	0
56	MG	1A	3653	1/1	0.85	0.10	50,50,50,50	0
56	MG	2A	3579	1/1	0.85	0.12	39,39,39,39	0
56	MG	1A	3532	1/1	0.85	0.27	51,51,51,51	0
56	MG	1A	3899	1/1	0.85	0.11	35,35,35,35	0
56	MG	1A	3246	1/1	0.85	0.16	54,54,54,54	0
56	MG	1a	1693	1/1	0.85	0.17	66,66,66,66	0
56	MG	2E	307	1/1	0.85	0.11	61,61,61,61	0
56	MG	2Q	3003	1/1	0.85	0.08	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3105	1/1	0.85	0.07	44,44,44,44	0
56	MG	2a	3220	1/1	0.85	0.20	62,62,62,62	0
56	MG	2W	204	1/1	0.85	0.13	51,51,51,51	0
56	MG	1A	4093	1/1	0.85	0.16	39,39,39,39	0
56	MG	1A	3299	1/1	0.85	0.16	54,54,54,54	0
56	MG	2A	3666	1/1	0.85	0.09	47,47,47,47	0
56	MG	1A	3357	1/1	0.85	0.27	69,69,69,69	0
56	MG	2a	3230	1/1	0.85	0.15	66,66,66,66	0
56	MG	1A	3732	1/1	0.85	0.15	35,35,35,35	0
56	MG	1X	105	1/1	0.85	0.09	62,62,62,62	0
56	MG	1A	3756	1/1	0.85	0.13	67,67,67,67	0
56	MG	1a	1907	1/1	0.85	0.09	58,58,58,58	0
56	MG	1A	3947	1/1	0.85	0.17	47,47,47,47	0
56	MG	1A	3795	1/1	0.85	0.12	43,43,43,43	0
56	MG	12	3001	1/1	0.85	0.14	56,56,56,56	0
56	MG	2A	3714	1/1	0.85	0.11	58,58,58,58	0
56	MG	2A	3361	1/1	0.85	0.07	57,57,57,57	0
56	MG	1A	3157	1/1	0.85	0.28	51,51,51,51	0
56	MG	1A	3974	1/1	0.85	0.18	35,35,35,35	0
56	MG	1a	1604	1/1	0.85	0.18	63,63,63,63	0
56	MG	2A	3751	1/1	0.85	0.09	46,46,46,46	0
56	MG	2A	3754	1/1	0.85	0.13	71,71,71,71	0
56	MG	1A	3361	1/1	0.85	0.16	63,63,63,63	0
56	MG	1A	3801	1/1	0.85	0.12	60,60,60,60	0
56	MG	2a	3036	1/1	0.85	0.10	60,60,60,60	0
56	MG	1A	4181	1/1	0.85	0.20	47,47,47,47	0
56	MG	2A	3382	1/1	0.85	0.18	55,55,55,55	0
56	MG	2a	3050	1/1	0.85	0.23	69,69,69,69	0
56	MG	2A	3384	1/1	0.85	0.11	70,70,70,70	0
56	MG	1A	3992	1/1	0.86	0.20	73,73,73,73	0
56	MG	2A	3065	1/1	0.86	0.17	59,59,59,59	0
56	MG	2A	3259	1/1	0.86	0.08	59,59,59,59	0
56	MG	1A	3399	1/1	0.86	0.22	72,72,72,72	0
56	MG	1A	3680	1/1	0.86	0.24	64,64,64,64	0
56	MG	2A	3401	1/1	0.86	0.23	50,50,50,50	0
56	MG	2A	3778	1/1	0.86	0.11	53,53,53,53	0
56	MG	2a	3077	1/1	0.86	0.24	59,59,59,59	0
56	MG	1A	3998	1/1	0.86	0.18	48,48,48,48	0
56	MG	1a	1716	1/1	0.86	0.30	53,53,53,53	0
56	MG	2A	3280	1/1	0.86	0.09	59,59,59,59	0
56	MG	2A	3807	1/1	0.86	0.10	50,50,50,50	0
56	MG	1A	3684	1/1	0.86	0.25	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3414	1/1	0.86	0.08	52,52,52,52	0
56	MG	1A	3368	1/1	0.86	0.19	62,62,62,62	0
56	MG	1A	4021	1/1	0.86	0.10	36,36,36,36	0
56	MG	1A	4034	1/1	0.86	0.11	24,24,24,24	0
56	MG	2A	3098	1/1	0.86	0.17	51,51,51,51	0
56	MG	2A	3100	1/1	0.86	0.24	72,72,72,72	0
56	MG	2A	3431	1/1	0.86	0.08	58,58,58,58	0
56	MG	2a	3121	1/1	0.86	0.19	78,78,78,78	0
56	MG	1a	1897	1/1	0.86	0.17	95,95,95,95	0
56	MG	1A	3570	1/1	0.86	0.13	54,54,54,54	0
56	MG	1A	4201	1/1	0.86	0.22	51,51,51,51	0
56	MG	1A	3079	1/1	0.86	0.09	46,46,46,46	0
56	MG	1A	3577	1/1	0.86	0.17	69,69,69,69	0
56	MG	2A	3498	1/1	0.86	0.15	62,62,62,62	0
56	MG	2A	3499	1/1	0.86	0.30	41,41,41,41	0
56	MG	1t	3001	1/1	0.86	0.13	65,65,65,65	0
56	MG	2a	3162	1/1	0.86	0.13	100,100,100,100	0
56	MG	2A	3512	1/1	0.86	0.17	53,53,53,53	0
56	MG	1a	1609	1/1	0.86	0.14	64,64,64,64	0
56	MG	1B	204	1/1	0.86	0.31	61,61,61,61	0
56	MG	2A	3536	1/1	0.86	0.16	60,60,60,60	0
56	MG	2A	3177	1/1	0.86	0.14	46,46,46,46	0
56	MG	1A	3317	1/1	0.86	0.17	53,53,53,53	0
56	MG	1A	3486	1/1	0.86	0.15	52,52,52,52	0
56	MG	1B	210	1/1	0.86	0.24	62,62,62,62	0
56	MG	2A	3338	1/1	0.86	0.34	64,64,64,64	0
56	MG	2a	3192	1/1	0.86	0.18	74,74,74,74	0
56	MG	2A	3593	1/1	0.86	0.15	71,71,71,71	0
56	MG	1A	3132	1/1	0.86	0.23	58,58,58,58	0
56	MG	2A	3622	1/1	0.86	0.14	47,47,47,47	0
56	MG	2N	8001	1/1	0.86	0.10	53,53,53,53	0
56	MG	2a	3199	1/1	0.86	0.34	62,62,62,62	0
56	MG	2A	3632	1/1	0.86	0.08	34,34,34,34	0
56	MG	2A	3191	1/1	0.86	0.14	52,52,52,52	0
56	MG	2A	3344	1/1	0.86	0.33	71,71,71,71	0
56	MG	2A	3349	1/1	0.86	0.20	61,61,61,61	0
56	MG	25	101	1/1	0.86	0.21	57,57,57,57	0
56	MG	1A	3147	1/1	0.86	0.14	45,45,45,45	0
56	MG	2A	3355	1/1	0.86	0.10	73,73,73,73	0
56	MG	2a	3228	1/1	0.86	0.22	66,66,66,66	0
56	MG	2A	3357	1/1	0.86	0.24	66,66,66,66	0
56	MG	2A	3194	1/1	0.86	0.10	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3676	1/1	0.86	0.12	55,55,55,55	0
56	MG	2A	3682	1/1	0.86	0.13	56,56,56,56	0
56	MG	1A	3360	1/1	0.86	0.09	54,54,54,54	0
56	MG	2A	3360	1/1	0.86	0.13	70,70,70,70	0
56	MG	2f	3002	1/1	0.86	0.27	63,63,63,63	0
56	MG	1A	3938	1/1	0.86	0.16	60,60,60,60	0
56	MG	2a	3014	1/1	0.86	0.34	70,70,70,70	0
56	MG	1A	3515	1/1	0.86	0.22	55,55,55,55	0
56	MG	1A	3260	1/1	0.86	0.20	57,57,57,57	0
56	MG	1A	4105	1/1	0.86	0.13	33,33,33,33	0
56	MG	1A	3642	1/1	0.86	0.35	53,53,53,53	0
56	MG	2A	3376	1/1	0.86	0.14	59,59,59,59	0
56	MG	2A	3377	1/1	0.86	0.26	64,64,64,64	0
56	MG	2A	3740	1/1	0.86	0.13	73,73,73,73	0
56	MG	1A	3267	1/1	0.86	0.20	57,57,57,57	0
56	MG	1A	3553	1/1	0.86	0.51	76,76,76,76	0
56	MG	1F	302	1/1	0.86	0.27	66,66,66,66	0
56	MG	2a	3034	1/1	0.86	0.32	64,64,64,64	0
56	MG	2A	3383	1/1	0.86	0.13	59,59,59,59	0
56	MG	1F	310	1/1	0.86	0.21	66,66,66,66	0
56	MG	1a	1834	1/1	0.86	0.21	60,60,60,60	0
57	CPT	1A	4210	4/5	0.86	0.11	77,103,121,207	0
56	MG	1A	4119	1/1	0.86	0.22	73,73,73,73	0
56	MG	1a	1688	1/1	0.87	0.34	71,71,71,71	0
56	MG	1a	1691	1/1	0.87	0.26	79,79,79,79	0
56	MG	2a	3009	1/1	0.87	0.40	72,72,72,72	0
56	MG	1E	312	1/1	0.87	0.14	62,62,62,62	0
56	MG	1A	3728	1/1	0.87	0.12	60,60,60,60	0
56	MG	1a	1700	1/1	0.87	0.24	55,55,55,55	0
56	MG	1x	108	1/1	0.87	0.23	73,73,73,73	0
56	MG	2a	3017	1/1	0.87	0.22	71,71,71,71	0
56	MG	2A	3296	1/1	0.87	0.14	55,55,55,55	0
56	MG	1F	307	1/1	0.87	0.10	35,35,35,35	0
56	MG	1a	1710	1/1	0.87	0.40	79,79,79,79	0
56	MG	1F	308	1/1	0.87	0.11	45,45,45,45	0
56	MG	1F	309	1/1	0.87	0.18	62,62,62,62	0
56	MG	1x	118	1/1	0.87	0.13	66,66,66,66	0
56	MG	1A	3731	1/1	0.87	0.18	57,57,57,57	0
56	MG	2A	3668	1/1	0.87	0.09	41,41,41,41	0
56	MG	1A	3639	1/1	0.87	0.20	56,56,56,56	0
56	MG	1I	3001	1/1	0.87	0.15	76,76,76,76	0
56	MG	1A	3999	1/1	0.87	0.22	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3318	1/1	0.87	0.10	61,61,61,61	0
56	MG	1A	3745	1/1	0.87	0.12	49,49,49,49	0
56	MG	1a	1728	1/1	0.87	0.22	62,62,62,62	0
56	MG	2a	3054	1/1	0.87	0.23	61,61,61,61	0
56	MG	2A	3327	1/1	0.87	0.09	54,54,54,54	0
56	MG	1W	3002	1/1	0.87	0.10	51,51,51,51	0
56	MG	2A	3052	1/1	0.87	0.21	61,61,61,61	0
56	MG	1A	4011	1/1	0.87	0.17	73,73,73,73	0
56	MG	1a	1743	1/1	0.87	0.34	66,66,66,66	0
56	MG	2A	3063	1/1	0.87	0.11	46,46,46,46	0
56	MG	2A	3721	1/1	0.87	0.09	45,45,45,45	0
56	MG	2a	3070	1/1	0.87	0.11	76,76,76,76	0
56	MG	2A	3725	1/1	0.87	0.08	52,52,52,52	0
56	MG	1a	1745	1/1	0.87	0.29	58,58,58,58	0
56	MG	2a	3084	1/1	0.87	0.27	62,62,62,62	0
56	MG	1Z	301	1/1	0.87	0.19	50,50,50,50	0
56	MG	2A	3066	1/1	0.87	0.19	55,55,55,55	0
56	MG	1A	3466	1/1	0.87	0.23	58,58,58,58	0
56	MG	1A	3904	1/1	0.87	0.10	57,57,57,57	0
56	MG	10	106	1/1	0.87	0.21	70,70,70,70	0
56	MG	1A	4180	1/1	0.87	0.11	62,62,62,62	0
56	MG	1A	4024	1/1	0.87	0.13	48,48,48,48	0
56	MG	2A	3759	1/1	0.87	0.10	37,37,37,37	0
56	MG	1A	3774	1/1	0.87	0.18	75,75,75,75	0
56	MG	2a	3112	1/1	0.87	0.20	70,70,70,70	0
56	MG	1a	1757	1/1	0.87	0.33	71,71,71,71	0
56	MG	16	102	1/1	0.87	0.15	68,68,68,68	0
56	MG	18	101	1/1	0.87	0.23	77,77,77,77	0
56	MG	1A	3002	1/1	0.87	0.18	59,59,59,59	0
56	MG	1A	4204	1/1	0.87	0.20	50,50,50,50	0
56	MG	1A	3645	1/1	0.87	0.18	59,59,59,59	0
56	MG	1a	1782	1/1	0.87	0.23	58,58,58,58	0
56	MG	1A	4208	1/1	0.87	0.18	79,79,79,79	0
56	MG	1a	1790	1/1	0.87	0.12	78,78,78,78	0
56	MG	1A	3933	1/1	0.87	0.20	81,81,81,81	0
56	MG	2A	3797	1/1	0.87	0.16	50,50,50,50	0
56	MG	2A	3800	1/1	0.87	0.14	67,67,67,67	0
56	MG	1A	4230	1/1	0.87	0.21	45,45,45,45	0
56	MG	1A	3318	1/1	0.87	0.22	57,57,57,57	0
56	MG	2a	3173	1/1	0.87	0.10	104,104,104,104	0
56	MG	1A	4054	1/1	0.87	0.19	73,73,73,73	0
56	MG	2A	3817	1/1	0.87	0.17	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1809	1/1	0.87	0.12	64,64,64,64	0
56	MG	2A	3389	1/1	0.87	0.07	52,52,52,52	0
56	MG	1a	1630	1/1	0.87	0.35	57,57,57,57	0
56	MG	1A	4059	1/1	0.87	0.20	65,65,65,65	0
56	MG	2A	3189	1/1	0.87	0.13	51,51,51,51	0
56	MG	1a	1825	1/1	0.87	0.21	57,57,57,57	0
56	MG	1a	1636	1/1	0.87	0.26	66,66,66,66	0
56	MG	1A	3590	1/1	0.87	0.25	44,44,44,44	0
56	MG	2A	3864	1/1	0.87	0.12	73,73,73,73	0
56	MG	2A	3868	1/1	0.87	0.15	71,71,71,71	0
56	MG	1A	3445	1/1	0.87	0.07	59,59,59,59	0
56	MG	2a	3201	1/1	0.87	0.13	70,70,70,70	0
56	MG	2A	3196	1/1	0.87	0.09	57,57,57,57	0
56	MG	2A	3405	1/1	0.87	0.19	72,72,72,72	0
56	MG	1A	3544	1/1	0.87	0.10	65,65,65,65	0
56	MG	1B	226	1/1	0.87	0.13	54,54,54,54	0
56	MG	1A	3448	1/1	0.87	0.13	59,59,59,59	0
56	MG	1a	1649	1/1	0.87	0.17	62,62,62,62	0
56	MG	1A	3082	1/1	0.87	0.24	50,50,50,50	0
56	MG	1a	1661	1/1	0.87	0.10	73,73,73,73	0
56	MG	2A	3909	1/1	0.87	0.23	51,51,51,51	0
56	MG	1A	3826	1/1	0.87	0.12	61,61,61,61	0
56	MG	2B	3003	1/1	0.87	0.19	58,58,58,58	0
56	MG	1a	1874	1/1	0.87	0.09	82,82,82,82	0
56	MG	2B	3009	1/1	0.87	0.15	61,61,61,61	0
56	MG	1A	3975	1/1	0.87	0.11	48,48,48,48	0
56	MG	2B	3013	1/1	0.87	0.33	72,72,72,72	0
56	MG	1a	1665	1/1	0.87	0.22	67,67,67,67	0
56	MG	2A	3229	1/1	0.87	0.10	55,55,55,55	0
56	MG	2A	3470	1/1	0.87	0.39	60,60,60,60	0
56	MG	1a	1667	1/1	0.87	0.31	59,59,59,59	0
56	MG	2A	3479	1/1	0.87	0.23	58,58,58,58	0
56	MG	2A	3481	1/1	0.87	0.12	55,55,55,55	0
56	MG	2A	3241	1/1	0.87	0.22	44,44,44,44	0
56	MG	1A	3984	1/1	0.87	0.16	49,49,49,49	0
56	MG	2R	202	1/1	0.87	0.12	50,50,50,50	0
56	MG	2A	3246	1/1	0.87	0.17	59,59,59,59	0
56	MG	2A	3254	1/1	0.87	0.14	56,56,56,56	0
56	MG	1a	1675	1/1	0.87	0.23	53,53,53,53	0
56	MG	1A	3353	1/1	0.87	0.31	69,69,69,69	0
56	MG	1a	1922	1/1	0.87	0.22	52,52,52,52	0
56	MG	2A	3522	1/1	0.87	0.12	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1c	301	1/1	0.87	0.26	66,66,66,66	0
56	MG	1A	3988	1/1	0.87	0.21	58,58,58,58	0
56	MG	1A	3458	1/1	0.87	0.30	55,55,55,55	0
57	CPT	2A	3904	4/5	0.87	0.13	79,102,124,194	4
56	MG	1A	3935	1/1	0.88	0.17	58,58,58,58	0
56	MG	2A	3329	1/1	0.88	0.11	58,58,58,58	0
56	MG	1A	3735	1/1	0.88	0.14	61,61,61,61	0
56	MG	1A	3250	1/1	0.88	0.16	58,58,58,58	0
56	MG	1A	3607	1/1	0.88	0.17	62,62,62,62	0
56	MG	1A	3609	1/1	0.88	0.21	50,50,50,50	0
56	MG	2a	3022	1/1	0.88	0.20	67,67,67,67	0
56	MG	2A	3694	1/1	0.88	0.14	60,60,60,60	0
56	MG	2A	3695	1/1	0.88	0.09	43,43,43,43	0
56	MG	1a	1787	1/1	0.88	0.23	61,61,61,61	0
56	MG	2A	3703	1/1	0.88	0.12	64,64,64,64	0
56	MG	2a	3027	1/1	0.88	0.34	69,69,69,69	0
56	MG	1a	1789	1/1	0.88	0.28	69,69,69,69	0
56	MG	1A	3785	1/1	0.88	0.12	33,33,33,33	0
56	MG	1a	1654	1/1	0.88	0.20	52,52,52,52	0
56	MG	1a	1792	1/1	0.88	0.15	51,51,51,51	0
56	MG	2a	3038	1/1	0.88	0.29	58,58,58,58	0
56	MG	1A	4090	1/1	0.88	0.13	54,54,54,54	0
56	MG	1a	1798	1/1	0.88	0.33	66,66,66,66	0
56	MG	1a	1659	1/1	0.88	0.21	68,68,68,68	0
56	MG	1A	3962	1/1	0.88	0.40	58,58,58,58	0
56	MG	2A	3727	1/1	0.88	0.11	53,53,53,53	0
56	MG	1A	4099	1/1	0.88	0.11	82,82,82,82	0
56	MG	1A	3965	1/1	0.88	0.17	45,45,45,45	0
56	MG	1A	3439	1/1	0.88	0.09	43,43,43,43	0
56	MG	1A	3340	1/1	0.88	0.19	65,65,65,65	0
56	MG	1A	3387	1/1	0.88	0.19	63,63,63,63	0
56	MG	1A	3982	1/1	0.88	0.15	32,32,32,32	0
56	MG	1a	1677	1/1	0.88	0.31	70,70,70,70	0
56	MG	2a	3071	1/1	0.88	0.18	71,71,71,71	0
56	MG	2a	3073	1/1	0.88	0.16	58,58,58,58	0
56	MG	1a	1678	1/1	0.88	0.19	52,52,52,52	0
56	MG	1A	4124	1/1	0.88	0.11	67,67,67,67	0
56	MG	1A	3253	1/1	0.88	0.16	48,48,48,48	0
56	MG	1O	3001	1/1	0.88	0.12	82,82,82,82	0
56	MG	1A	3643	1/1	0.88	0.19	51,51,51,51	0
56	MG	2A	3766	1/1	0.88	0.11	51,51,51,51	0
56	MG	1a	1868	1/1	0.88	0.12	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3195	1/1	0.88	0.22	53,53,53,53	0
56	MG	2a	3098	1/1	0.88	0.30	61,61,61,61	0
56	MG	2a	3099	1/1	0.88	0.16	60,60,60,60	0
56	MG	1a	1689	1/1	0.88	0.14	65,65,65,65	0
56	MG	2a	3105	1/1	0.88	0.14	57,57,57,57	0
56	MG	1S	3002	1/1	0.88	0.16	63,63,63,63	0
56	MG	1A	4145	1/1	0.88	0.13	35,35,35,35	0
56	MG	2A	3784	1/1	0.88	0.11	48,48,48,48	0
56	MG	2a	3110	1/1	0.88	0.22	53,53,53,53	0
56	MG	2A	3207	1/1	0.88	0.07	38,38,38,38	0
56	MG	2a	3113	1/1	0.88	0.14	73,73,73,73	0
56	MG	1a	1876	1/1	0.88	0.11	65,65,65,65	0
56	MG	2A	3211	1/1	0.88	0.13	56,56,56,56	0
56	MG	1U	204	1/1	0.88	0.60	66,66,66,66	0
56	MG	1a	1695	1/1	0.88	0.23	65,65,65,65	0
56	MG	1A	3392	1/1	0.88	0.29	55,55,55,55	0
56	MG	2A	3813	1/1	0.88	0.16	39,39,39,39	0
56	MG	2A	3815	1/1	0.88	0.09	69,69,69,69	0
56	MG	1A	3394	1/1	0.88	0.25	63,63,63,63	0
56	MG	2a	3149	1/1	0.88	0.12	86,86,86,86	0
56	MG	1a	1915	1/1	0.88	0.10	68,68,68,68	0
56	MG	1A	3993	1/1	0.88	0.20	55,55,55,55	0
56	MG	1A	3648	1/1	0.88	0.17	53,53,53,53	0
56	MG	2A	3413	1/1	0.88	0.11	61,61,61,61	0
56	MG	1A	3825	1/1	0.88	0.14	49,49,49,49	0
56	MG	2A	3421	1/1	0.88	0.07	60,60,60,60	0
56	MG	1A	4179	1/1	0.88	0.13	51,51,51,51	0
56	MG	1f	3002	1/1	0.88	0.24	61,61,61,61	0
56	MG	1a	1717	1/1	0.88	0.22	63,63,63,63	0
56	MG	2A	3858	1/1	0.88	0.14	52,52,52,52	0
56	MG	2A	3244	1/1	0.88	0.15	46,46,46,46	0
56	MG	1a	1722	1/1	0.88	0.33	58,58,58,58	0
56	MG	2A	3253	1/1	0.88	0.19	57,57,57,57	0
56	MG	1A	3460	1/1	0.88	0.14	62,62,62,62	0
56	MG	1A	3398	1/1	0.88	0.12	41,41,41,41	0
56	MG	2A	3881	1/1	0.88	0.29	71,71,71,71	0
56	MG	2A	3453	1/1	0.88	0.27	53,53,53,53	0
56	MG	2A	3460	1/1	0.88	0.18	66,66,66,66	0
56	MG	2A	3468	1/1	0.88	0.33	62,62,62,62	0
56	MG	1A	4002	1/1	0.88	0.15	45,45,45,45	0
56	MG	2A	3472	1/1	0.88	0.19	55,55,55,55	0
56	MG	1A	3574	1/1	0.88	0.16	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3207	1/1	0.88	0.17	71,71,71,71	0
56	MG	2a	3209	1/1	0.88	0.16	61,61,61,61	0
56	MG	1A	3575	1/1	0.88	0.21	54,54,54,54	0
56	MG	2a	3219	1/1	0.88	0.23	81,81,81,81	0
56	MG	1a	1729	1/1	0.88	0.20	47,47,47,47	0
56	MG	2A	3920	1/1	0.88	0.26	60,60,60,60	0
56	MG	2B	3002	1/1	0.88	0.09	60,60,60,60	0
56	MG	2A	3262	1/1	0.88	0.11	55,55,55,55	0
56	MG	2A	3263	1/1	0.88	0.14	58,58,58,58	0
56	MG	2a	3227	1/1	0.88	0.12	68,68,68,68	0
56	MG	2A	3495	1/1	0.88	0.25	66,66,66,66	0
56	MG	1a	1732	1/1	0.88	0.24	57,57,57,57	0
56	MG	2A	3270	1/1	0.88	0.18	65,65,65,65	0
56	MG	2A	3271	1/1	0.88	0.16	59,59,59,59	0
56	MG	2a	3233	1/1	0.88	0.28	60,60,60,60	0
56	MG	1A	3688	1/1	0.88	0.34	53,53,53,53	0
56	MG	1A	3185	1/1	0.88	0.16	41,41,41,41	0
56	MG	1a	1605	1/1	0.88	0.16	72,72,72,72	0
56	MG	2A	3286	1/1	0.88	0.12	52,52,52,52	0
56	MG	1A	3001	1/1	0.88	0.14	47,47,47,47	0
56	MG	1y	3003	1/1	0.88	0.14	85,85,85,85	0
56	MG	1A	3144	1/1	0.88	0.15	50,50,50,50	0
56	MG	1a	1747	1/1	0.88	0.22	60,60,60,60	0
56	MG	1a	1749	1/1	0.88	0.12	62,62,62,62	0
56	MG	1A	3411	1/1	0.88	0.10	58,58,58,58	0
56	MG	2Z	8001	1/1	0.88	0.15	65,65,65,65	0
56	MG	2A	3591	1/1	0.88	0.09	46,46,46,46	0
56	MG	1A	3061	1/1	0.88	0.17	56,56,56,56	0
56	MG	2A	3609	1/1	0.88	0.16	60,60,60,60	0
56	MG	1A	3912	1/1	0.88	0.14	44,44,44,44	0
56	MG	1A	4048	1/1	0.88	0.08	68,68,68,68	0
56	MG	1a	1618	1/1	0.88	0.14	51,51,51,51	0
56	MG	1a	1624	1/1	0.88	0.16	60,60,60,60	0
56	MG	2x	106	1/1	0.88	0.23	57,57,57,57	0
56	MG	2y	3002	1/1	0.88	0.13	58,58,58,58	0
56	MG	2y	3003	1/1	0.88	0.13	71,71,71,71	0
56	MG	1A	3182	1/1	0.88	0.23	58,58,58,58	0
56	MG	1a	1759	1/1	0.88	0.15	53,53,53,53	0
56	MG	1A	3322	1/1	0.88	0.22	50,50,50,50	0
56	MG	1a	1776	1/1	0.88	0.35	69,69,69,69	0
56	MG	1A	3734	1/1	0.88	0.15	55,55,55,55	0
56	MG	2A	3339	1/1	0.89	0.08	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3646	1/1	0.89	0.10	49,49,49,49	0
56	MG	1A	3331	1/1	0.89	0.38	67,67,67,67	0
56	MG	1a	1814	1/1	0.89	0.32	71,71,71,71	0
56	MG	1N	3004	1/1	0.89	0.35	60,60,60,60	0
56	MG	1a	1832	1/1	0.89	0.12	59,59,59,59	0
56	MG	2A	3137	1/1	0.89	0.18	52,52,52,52	0
56	MG	1A	3474	1/1	0.89	0.11	51,51,51,51	0
56	MG	1O	3003	1/1	0.89	0.09	50,50,50,50	0
56	MG	1A	3808	1/1	0.89	0.14	50,50,50,50	0
56	MG	2A	3173	1/1	0.89	0.13	61,61,61,61	0
56	MG	1a	1846	1/1	0.89	0.29	56,56,56,56	0
56	MG	2A	3720	1/1	0.89	0.18	57,57,57,57	0
56	MG	2a	3037	1/1	0.89	0.12	92,92,92,92	0
56	MG	1a	1850	1/1	0.89	0.18	59,59,59,59	0
56	MG	1A	4142	1/1	0.89	0.12	64,64,64,64	0
56	MG	2A	3364	1/1	0.89	0.08	56,56,56,56	0
56	MG	2a	3048	1/1	0.89	0.19	58,58,58,58	0
56	MG	2A	3368	1/1	0.89	0.32	65,65,65,65	0
56	MG	2A	3732	1/1	0.89	0.08	53,53,53,53	0
56	MG	2a	3055	1/1	0.89	0.12	67,67,67,67	0
56	MG	1A	3480	1/1	0.89	0.10	53,53,53,53	0
56	MG	2A	3742	1/1	0.89	0.10	43,43,43,43	0
56	MG	1A	3673	1/1	0.89	0.16	50,50,50,50	0
56	MG	1A	4147	1/1	0.89	0.10	79,79,79,79	0
56	MG	1A	3099	1/1	0.89	0.19	57,57,57,57	0
56	MG	2A	3378	1/1	0.89	0.10	58,58,58,58	0
56	MG	1a	1711	1/1	0.89	0.22	54,54,54,54	0
56	MG	1X	106	1/1	0.89	0.11	56,56,56,56	0
56	MG	1A	3301	1/1	0.89	0.32	58,58,58,58	0
56	MG	1A	4154	1/1	0.89	0.12	88,88,88,88	0
56	MG	1A	3487	1/1	0.89	0.53	62,62,62,62	0
56	MG	1O	105	1/1	0.89	0.19	66,66,66,66	0
56	MG	1A	3489	1/1	0.89	0.14	52,52,52,52	0
56	MG	1A	4003	1/1	0.89	0.17	57,57,57,57	0
56	MG	2A	3208	1/1	0.89	0.08	50,50,50,50	0
56	MG	1A	4007	1/1	0.89	0.13	51,51,51,51	0
56	MG	1A	3065	1/1	0.89	0.37	61,61,61,61	0
56	MG	1A	4186	1/1	0.89	0.23	66,66,66,66	0
56	MG	1A	3703	1/1	0.89	0.19	47,47,47,47	0
56	MG	2A	3214	1/1	0.89	0.10	64,64,64,64	0
56	MG	2A	3785	1/1	0.89	0.24	57,57,57,57	0
56	MG	1A	4195	1/1	0.89	0.30	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3712	1/1	0.89	0.15	39,39,39,39	0
56	MG	1A	3713	1/1	0.89	0.14	50,50,50,50	0
56	MG	1A	3903	1/1	0.89	0.14	51,51,51,51	0
56	MG	2A	3223	1/1	0.89	0.11	50,50,50,50	0
56	MG	1A	3498	1/1	0.89	0.26	64,64,64,64	0
56	MG	1A	3121	1/1	0.89	0.20	54,54,54,54	0
56	MG	1A	3506	1/1	0.89	0.16	55,55,55,55	0
56	MG	2a	3118	1/1	0.89	0.29	70,70,70,70	0
56	MG	1A	3382	1/1	0.89	0.20	53,53,53,53	0
56	MG	1A	3231	1/1	0.89	0.11	54,54,54,54	0
56	MG	2A	3424	1/1	0.89	0.14	65,65,65,65	0
56	MG	1A	4051	1/1	0.89	0.12	55,55,55,55	0
56	MG	1A	3384	1/1	0.89	0.10	51,51,51,51	0
56	MG	2A	3250	1/1	0.89	0.42	62,62,62,62	0
56	MG	2a	3142	1/1	0.89	0.11	86,86,86,86	0
56	MG	1A	3527	1/1	0.89	0.09	55,55,55,55	0
56	MG	2A	3435	1/1	0.89	0.19	44,44,44,44	0
56	MG	2a	3150	1/1	0.89	0.14	61,61,61,61	0
56	MG	2a	3152	1/1	0.89	0.12	69,69,69,69	0
56	MG	2A	3837	1/1	0.89	0.13	48,48,48,48	0
56	MG	2A	3442	1/1	0.89	0.21	48,48,48,48	0
56	MG	1A	3629	1/1	0.89	0.23	62,62,62,62	0
56	MG	1B	223	1/1	0.89	0.16	75,75,75,75	0
56	MG	2A	3452	1/1	0.89	0.20	60,60,60,60	0
56	MG	2A	3256	1/1	0.89	0.19	58,58,58,58	0
56	MG	2A	3454	1/1	0.89	0.16	48,48,48,48	0
56	MG	1A	4063	1/1	0.89	0.24	63,63,63,63	0
56	MG	1A	3366	1/1	0.89	0.31	60,60,60,60	0
56	MG	2A	3878	1/1	0.89	0.19	64,64,64,64	0
56	MG	2A	3469	1/1	0.89	0.25	61,61,61,61	0
56	MG	1a	1761	1/1	0.89	0.31	55,55,55,55	0
56	MG	2A	3888	1/1	0.89	0.11	42,42,42,42	0
56	MG	1A	3635	1/1	0.89	0.26	59,59,59,59	0
56	MG	2a	3191	1/1	0.89	0.10	65,65,65,65	0
56	MG	2A	3894	1/1	0.89	0.10	60,60,60,60	0
56	MG	2A	3473	1/1	0.89	0.24	60,60,60,60	0
56	MG	2A	3899	1/1	0.89	0.31	61,61,61,61	0
56	MG	1A	3776	1/1	0.89	0.12	43,43,43,43	0
56	MG	2A	3002	1/1	0.89	0.28	61,61,61,61	0
56	MG	1a	1777	1/1	0.89	0.27	51,51,51,51	0
56	MG	2A	3908	1/1	0.89	0.12	43,43,43,43	0
56	MG	2a	3202	1/1	0.89	0.12	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3778	1/1	0.89	0.19	66,66,66,66	0
56	MG	1A	4086	1/1	0.89	0.28	57,57,57,57	0
56	MG	2A	3915	1/1	0.89	0.08	54,54,54,54	0
56	MG	2a	3210	1/1	0.89	0.16	58,58,58,58	0
56	MG	2a	3214	1/1	0.89	0.14	63,63,63,63	0
56	MG	2A	3274	1/1	0.89	0.11	52,52,52,52	0
56	MG	2A	3030	1/1	0.89	0.08	35,35,35,35	0
56	MG	1A	3541	1/1	0.89	0.15	48,48,48,48	0
56	MG	2A	3282	1/1	0.89	0.07	64,64,64,64	0
56	MG	2A	3040	1/1	0.89	0.17	42,42,42,42	0
56	MG	1A	3790	1/1	0.89	0.15	46,46,46,46	0
56	MG	2B	3012	1/1	0.89	0.18	58,58,58,58	0
56	MG	2A	3050	1/1	0.89	0.18	47,47,47,47	0
56	MG	1D	312	1/1	0.89	0.11	63,63,63,63	0
56	MG	1E	306	1/1	0.89	0.11	50,50,50,50	0
56	MG	2A	3548	1/1	0.89	0.10	49,49,49,49	0
56	MG	1a	1785	1/1	0.89	0.16	71,71,71,71	0
56	MG	2A	3062	1/1	0.89	0.13	54,54,54,54	0
56	MG	1E	307	1/1	0.89	0.33	67,67,67,67	0
56	MG	2F	302	1/1	0.89	0.17	63,63,63,63	0
56	MG	1A	3417	1/1	0.89	0.24	67,67,67,67	0
56	MG	1A	3968	1/1	0.89	0.12	63,63,63,63	0
56	MG	1A	3418	1/1	0.89	0.14	49,49,49,49	0
56	MG	2T	3001	1/1	0.89	0.12	74,74,74,74	0
56	MG	1a	1670	1/1	0.89	0.25	56,56,56,56	0
56	MG	1a	1793	1/1	0.89	0.12	65,65,65,65	0
56	MG	1F	303	1/1	0.89	0.10	57,57,57,57	0
56	MG	2p	3001	1/1	0.89	0.11	63,63,63,63	0
56	MG	2q	202	1/1	0.89	0.25	74,74,74,74	0
56	MG	2q	204	1/1	0.89	0.17	68,68,68,68	0
56	MG	2r	3001	1/1	0.89	0.19	75,75,75,75	0
56	MG	2t	3001	1/1	0.89	0.18	63,63,63,63	0
56	MG	2A	3070	1/1	0.89	0.10	34,34,34,34	0
56	MG	2A	3631	1/1	0.89	0.11	47,47,47,47	0
56	MG	2A	3073	1/1	0.89	0.08	43,43,43,43	0
56	MG	2A	3639	1/1	0.89	0.22	49,49,49,49	0
56	MG	2a	3001	1/1	0.89	0.15	62,62,62,62	0
56	MG	2w	102	1/1	0.89	0.11	60,60,60,60	0
56	MG	2A	3076	1/1	0.89	0.19	39,39,39,39	0
56	MG	2A	3645	1/1	0.89	0.12	40,40,40,40	0
56	MG	2w	106	1/1	0.89	0.08	71,71,71,71	0
56	MG	2w	107	1/1	0.89	0.17	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3655	1/1	0.89	0.26	58,58,58,58	0
56	MG	2a	3006	1/1	0.89	0.30	65,65,65,65	0
56	MG	1A	3265	1/1	0.89	0.10	64,64,64,64	0
56	MG	1a	1802	1/1	0.89	0.50	63,63,63,63	0
56	MG	1A	3979	1/1	0.89	0.13	46,46,46,46	0
56	MG	1A	3560	1/1	0.89	0.20	55,55,55,55	0
56	MG	2A	3092	1/1	0.89	0.23	34,34,34,34	0
56	MG	1a	1806	1/1	0.89	0.12	53,53,53,53	0
56	MG	2A	3335	1/1	0.89	0.19	52,52,52,52	0
56	MG	1A	3983	1/1	0.89	0.19	73,73,73,73	0
56	MG	2A	3537	1/1	0.90	0.12	50,50,50,50	0
56	MG	2A	3545	1/1	0.90	0.08	30,30,30,30	0
56	MG	1A	3227	1/1	0.90	0.30	65,65,65,65	0
56	MG	2A	3295	1/1	0.90	0.20	43,43,43,43	0
56	MG	2A	3560	1/1	0.90	0.13	41,41,41,41	0
56	MG	1a	1640	1/1	0.90	0.28	52,52,52,52	0
56	MG	2A	3569	1/1	0.90	0.10	32,32,32,32	0
56	MG	2A	3297	1/1	0.90	0.11	54,54,54,54	0
56	MG	2a	3005	1/1	0.90	0.16	54,54,54,54	0
56	MG	2A	3059	1/1	0.90	0.18	57,57,57,57	0
56	MG	2A	3300	1/1	0.90	0.09	63,63,63,63	0
56	MG	2A	3589	1/1	0.90	0.13	65,65,65,65	0
56	MG	1A	3459	1/1	0.90	0.16	53,53,53,53	0
56	MG	1A	3624	1/1	0.90	0.26	60,60,60,60	0
56	MG	2a	3011	1/1	0.90	0.18	69,69,69,69	0
56	MG	2A	3602	1/1	0.90	0.11	52,52,52,52	0
56	MG	1a	1645	1/1	0.90	0.21	53,53,53,53	0
56	MG	2A	3310	1/1	0.90	0.20	49,49,49,49	0
56	MG	1A	3920	1/1	0.90	0.16	60,60,60,60	0
56	MG	1A	4058	1/1	0.90	0.22	65,65,65,65	0
56	MG	1A	3926	1/1	0.90	0.10	62,62,62,62	0
56	MG	1A	3931	1/1	0.90	0.33	59,59,59,59	0
56	MG	2A	3640	1/1	0.90	0.15	45,45,45,45	0
56	MG	1a	1795	1/1	0.90	0.38	67,67,67,67	0
56	MG	1A	3520	1/1	0.90	0.08	52,52,52,52	0
56	MG	2A	3648	1/1	0.90	0.09	51,51,51,51	0
56	MG	1A	3155	1/1	0.90	0.16	47,47,47,47	0
56	MG	2A	3656	1/1	0.90	0.11	58,58,58,58	0
56	MG	1A	3530	1/1	0.90	0.23	43,43,43,43	0
56	MG	2a	3030	1/1	0.90	0.12	52,52,52,52	0
56	MG	2A	3661	1/1	0.90	0.11	39,39,39,39	0
56	MG	2a	3033	1/1	0.90	0.14	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3757	1/1	0.90	0.13	51,51,51,51	0
56	MG	2A	3328	1/1	0.90	0.11	58,58,58,58	0
56	MG	2A	3081	1/1	0.90	0.13	51,51,51,51	0
56	MG	1A	3407	1/1	0.90	0.27	61,61,61,61	0
56	MG	2a	3043	1/1	0.90	0.29	61,61,61,61	0
56	MG	1E	302	1/1	0.90	0.18	51,51,51,51	0
56	MG	2a	3046	1/1	0.90	0.19	50,50,50,50	0
56	MG	1A	3943	1/1	0.90	0.13	68,68,68,68	0
56	MG	2A	3674	1/1	0.90	0.12	49,49,49,49	0
56	MG	2A	3675	1/1	0.90	0.11	42,42,42,42	0
56	MG	2A	3333	1/1	0.90	0.12	53,53,53,53	0
56	MG	2A	3677	1/1	0.90	0.13	44,44,44,44	0
56	MG	1A	3538	1/1	0.90	0.20	50,50,50,50	0
56	MG	1A	3948	1/1	0.90	0.17	53,53,53,53	0
56	MG	2a	3058	1/1	0.90	0.09	76,76,76,76	0
56	MG	1A	3540	1/1	0.90	0.13	60,60,60,60	0
56	MG	2A	3692	1/1	0.90	0.11	65,65,65,65	0
56	MG	1a	1816	1/1	0.90	0.36	59,59,59,59	0
56	MG	1A	3958	1/1	0.90	0.14	48,48,48,48	0
56	MG	1A	3961	1/1	0.90	0.23	60,60,60,60	0
56	MG	2A	3348	1/1	0.90	0.12	55,55,55,55	0
56	MG	1A	3128	1/1	0.90	0.18	49,49,49,49	0
56	MG	2A	3352	1/1	0.90	0.09	47,47,47,47	0
56	MG	2a	3075	1/1	0.90	0.28	70,70,70,70	0
56	MG	1A	3236	1/1	0.90	0.10	64,64,64,64	0
56	MG	1A	3791	1/1	0.90	0.24	61,61,61,61	0
56	MG	1A	3472	1/1	0.90	0.14	59,59,59,59	0
56	MG	1a	1690	1/1	0.90	0.28	71,71,71,71	0
56	MG	2A	3157	1/1	0.90	0.13	45,45,45,45	0
56	MG	2A	3723	1/1	0.90	0.12	50,50,50,50	0
56	MG	2A	3163	1/1	0.90	0.14	55,55,55,55	0
56	MG	1A	4123	1/1	0.90	0.09	78,78,78,78	0
56	MG	1A	3308	1/1	0.90	0.34	62,62,62,62	0
56	MG	1A	4126	1/1	0.90	0.09	67,67,67,67	0
56	MG	1a	1862	1/1	0.90	0.09	49,49,49,49	0
56	MG	2A	3366	1/1	0.90	0.24	52,52,52,52	0
56	MG	2A	3367	1/1	0.90	0.11	59,59,59,59	0
56	MG	1A	3241	1/1	0.90	0.13	37,37,37,37	0
56	MG	1a	1865	1/1	0.90	0.11	51,51,51,51	0
56	MG	1A	3978	1/1	0.90	0.13	35,35,35,35	0
56	MG	2A	3375	1/1	0.90	0.11	59,59,59,59	0
56	MG	1A	3315	1/1	0.90	0.23	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3196	1/1	0.90	0.29	44,44,44,44	0
56	MG	1a	1870	1/1	0.90	0.13	81,81,81,81	0
56	MG	1S	3003	1/1	0.90	0.11	72,72,72,72	0
56	MG	1A	3662	1/1	0.90	0.23	59,59,59,59	0
56	MG	1A	3668	1/1	0.90	0.16	48,48,48,48	0
56	MG	1a	1878	1/1	0.90	0.09	70,70,70,70	0
56	MG	2A	3768	1/1	0.90	0.15	66,66,66,66	0
56	MG	2A	3201	1/1	0.90	0.25	61,61,61,61	0
56	MG	2A	3203	1/1	0.90	0.11	48,48,48,48	0
56	MG	1A	3986	1/1	0.90	0.14	39,39,39,39	0
56	MG	2a	3146	1/1	0.90	0.06	114,114,114,114	0
56	MG	2A	3388	1/1	0.90	0.12	65,65,65,65	0
56	MG	1A	3671	1/1	0.90	0.20	49,49,49,49	0
56	MG	1a	1720	1/1	0.90	0.35	62,62,62,62	0
56	MG	1A	3214	1/1	0.90	0.09	58,58,58,58	0
56	MG	2A	3209	1/1	0.90	0.11	61,61,61,61	0
56	MG	1A	3678	1/1	0.90	0.21	50,50,50,50	0
56	MG	2A	3398	1/1	0.90	0.18	48,48,48,48	0
56	MG	2A	3399	1/1	0.90	0.13	49,49,49,49	0
56	MG	1A	3319	1/1	0.90	0.28	58,58,58,58	0
56	MG	1A	4171	1/1	0.90	0.14	74,74,74,74	0
56	MG	2A	3810	1/1	0.90	0.08	59,59,59,59	0
56	MG	10	103	1/1	0.90	0.51	54,54,54,54	0
56	MG	10	104	1/1	0.90	0.21	53,53,53,53	0
56	MG	1A	3828	1/1	0.90	0.10	47,47,47,47	0
56	MG	2A	3409	1/1	0.90	0.11	51,51,51,51	0
56	MG	1l	202	1/1	0.90	0.15	63,63,63,63	0
56	MG	1A	3833	1/1	0.90	0.14	37,37,37,37	0
56	MG	2A	3221	1/1	0.90	0.08	49,49,49,49	0
56	MG	1A	3273	1/1	0.90	0.19	45,45,45,45	0
56	MG	1w	102	1/1	0.90	0.13	77,77,77,77	0
56	MG	2A	3224	1/1	0.90	0.12	55,55,55,55	0
56	MG	2A	3835	1/1	0.90	0.10	32,32,32,32	0
56	MG	1A	3847	1/1	0.90	0.11	60,60,60,60	0
56	MG	1w	104	1/1	0.90	0.18	54,54,54,54	0
56	MG	1A	3848	1/1	0.90	0.21	57,57,57,57	0
56	MG	2A	3855	1/1	0.90	0.11	47,47,47,47	0
56	MG	1A	3324	1/1	0.90	0.09	62,62,62,62	0
56	MG	1A	3496	1/1	0.90	0.10	57,57,57,57	0
56	MG	1a	1602	1/1	0.90	0.18	83,83,83,83	0
56	MG	1A	3585	1/1	0.90	0.33	49,49,49,49	0
56	MG	2A	3248	1/1	0.90	0.13	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3215	1/1	0.90	0.21	69,69,69,69	0
56	MG	1A	4206	1/1	0.90	0.18	45,45,45,45	0
56	MG	2A	3875	1/1	0.90	0.14	48,48,48,48	0
56	MG	2A	3446	1/1	0.90	0.12	49,49,49,49	0
56	MG	2A	3447	1/1	0.90	0.28	51,51,51,51	0
56	MG	2A	3251	1/1	0.90	0.15	68,68,68,68	0
56	MG	1A	3446	1/1	0.90	0.15	55,55,55,55	0
56	MG	1x	114	1/1	0.90	0.17	59,59,59,59	0
56	MG	1A	3328	1/1	0.90	0.35	53,53,53,53	0
56	MG	2A	3458	1/1	0.90	0.28	57,57,57,57	0
56	MG	2A	3898	1/1	0.90	0.10	55,55,55,55	0
56	MG	2A	3459	1/1	0.90	0.16	46,46,46,46	0
56	MG	1A	3503	1/1	0.90	0.18	56,56,56,56	0
56	MG	2A	3461	1/1	0.90	0.15	47,47,47,47	0
56	MG	2A	3462	1/1	0.90	0.21	42,42,42,42	0
56	MG	2A	3257	1/1	0.90	0.24	70,70,70,70	0
56	MG	1A	4219	1/1	0.90	0.12	41,41,41,41	0
56	MG	1A	4220	1/1	0.90	0.14	48,48,48,48	0
56	MG	1A	4224	1/1	0.90	0.18	49,49,49,49	0
56	MG	1A	3395	1/1	0.90	0.55	46,46,46,46	0
56	MG	1a	1760	1/1	0.90	0.13	48,48,48,48	0
56	MG	2A	3478	1/1	0.90	0.16	46,46,46,46	0
56	MG	1A	4240	1/1	0.90	0.10	51,51,51,51	0
56	MG	2A	3480	1/1	0.90	0.17	50,50,50,50	0
56	MG	2B	3010	1/1	0.90	0.09	59,59,59,59	0
56	MG	2A	3011	1/1	0.90	0.09	47,47,47,47	0
56	MG	1a	1623	1/1	0.90	0.09	56,56,56,56	0
56	MG	2A	3485	1/1	0.90	0.08	52,52,52,52	0
56	MG	2A	3488	1/1	0.90	0.24	53,53,53,53	0
56	MG	1a	1771	1/1	0.90	0.22	51,51,51,51	0
56	MG	2A	3029	1/1	0.90	0.10	51,51,51,51	0
56	MG	2B	3017	1/1	0.90	0.11	68,68,68,68	0
56	MG	2A	3497	1/1	0.90	0.48	58,58,58,58	0
56	MG	1A	4248	1/1	0.90	0.20	53,53,53,53	0
56	MG	1a	1626	1/1	0.90	0.21	48,48,48,48	0
56	MG	2E	308	1/1	0.90	0.39	59,59,59,59	0
56	MG	2w	105	1/1	0.90	0.12	71,71,71,71	0
56	MG	2A	3038	1/1	0.90	0.12	36,36,36,36	0
56	MG	2F	303	1/1	0.90	0.13	52,52,52,52	0
56	MG	2G	3001	1/1	0.90	0.07	46,46,46,46	0
56	MG	2A	3511	1/1	0.90	0.23	52,52,52,52	0
56	MG	1A	3218	1/1	0.90	0.21	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3514	1/1	0.90	0.11	48,48,48,48	0
56	MG	2A	3285	1/1	0.90	0.09	55,55,55,55	0
56	MG	2U	201	1/1	0.90	0.21	56,56,56,56	0
56	MG	1A	3604	1/1	0.90	0.10	42,42,42,42	0
56	MG	2W	201	1/1	0.90	0.13	61,61,61,61	0
56	MG	1A	3909	1/1	0.90	0.08	50,50,50,50	0
56	MG	1A	3910	1/1	0.90	0.08	35,35,35,35	0
58	K	2A	3922	1/1	0.90	0.12	72,72,72,72	0
56	MG	2A	3600	1/1	0.91	0.22	62,62,62,62	0
56	MG	20	102	1/1	0.91	0.32	56,56,56,56	0
56	MG	23	3001	1/1	0.91	0.16	56,56,56,56	0
56	MG	23	3002	1/1	0.91	0.14	53,53,53,53	0
56	MG	1A	3729	1/1	0.91	0.09	48,48,48,48	0
56	MG	2A	3604	1/1	0.91	0.11	34,34,34,34	0
56	MG	25	105	1/1	0.91	0.10	55,55,55,55	0
56	MG	2A	3607	1/1	0.91	0.24	51,51,51,51	0
56	MG	28	103	1/1	0.91	0.26	63,63,63,63	0
56	MG	1A	4257	1/1	0.91	0.12	41,41,41,41	0
56	MG	2A	3616	1/1	0.91	0.09	31,31,31,31	0
56	MG	1A	3730	1/1	0.91	0.13	44,44,44,44	0
56	MG	1a	1643	1/1	0.91	0.15	57,57,57,57	0
56	MG	2A	3627	1/1	0.91	0.09	43,43,43,43	0
56	MG	2A	3629	1/1	0.91	0.18	56,56,56,56	0
56	MG	2A	3087	1/1	0.91	0.21	57,57,57,57	0
56	MG	1A	3293	1/1	0.91	0.15	57,57,57,57	0
56	MG	1A	3626	1/1	0.91	0.11	64,64,64,64	0
56	MG	1A	3204	1/1	0.91	0.07	48,48,48,48	0
56	MG	1A	3631	1/1	0.91	0.23	57,57,57,57	0
56	MG	1A	4057	1/1	0.91	0.09	47,47,47,47	0
56	MG	1a	1657	1/1	0.91	0.26	48,48,48,48	0
56	MG	1A	3928	1/1	0.91	0.14	47,47,47,47	0
56	MG	2A	3102	1/1	0.91	0.07	55,55,55,55	0
56	MG	1A	3633	1/1	0.91	0.28	55,55,55,55	0
56	MG	1A	3932	1/1	0.91	0.09	40,40,40,40	0
56	MG	1a	1818	1/1	0.91	0.16	45,45,45,45	0
56	MG	2A	3110	1/1	0.91	0.15	46,46,46,46	0
56	MG	1a	1820	1/1	0.91	0.12	46,46,46,46	0
56	MG	2A	3121	1/1	0.91	0.11	53,53,53,53	0
56	MG	2A	3122	1/1	0.91	0.12	47,47,47,47	0
56	MG	2A	3126	1/1	0.91	0.06	50,50,50,50	0
56	MG	1A	4064	1/1	0.91	0.12	39,39,39,39	0
56	MG	2A	3146	1/1	0.91	0.13	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3152	1/1	0.91	0.13	53,53,53,53	0
56	MG	1A	3471	1/1	0.91	0.16	65,65,65,65	0
56	MG	1a	1833	1/1	0.91	0.14	70,70,70,70	0
56	MG	1A	3336	1/1	0.91	0.26	59,59,59,59	0
56	MG	2A	3687	1/1	0.91	0.08	53,53,53,53	0
56	MG	2A	3162	1/1	0.91	0.10	56,56,56,56	0
56	MG	2A	3691	1/1	0.91	0.16	66,66,66,66	0
56	MG	1A	3772	1/1	0.91	0.09	47,47,47,47	0
56	MG	1A	4078	1/1	0.91	0.10	24,24,24,24	0
56	MG	2A	3370	1/1	0.91	0.16	62,62,62,62	0
56	MG	2A	3167	1/1	0.91	0.17	41,41,41,41	0
56	MG	2A	3698	1/1	0.91	0.08	32,32,32,32	0
56	MG	2A	3169	1/1	0.91	0.12	49,49,49,49	0
56	MG	1A	4083	1/1	0.91	0.12	63,63,63,63	0
56	MG	2A	3706	1/1	0.91	0.10	60,60,60,60	0
56	MG	1A	3637	1/1	0.91	0.08	51,51,51,51	0
56	MG	2A	3176	1/1	0.91	0.08	62,62,62,62	0
56	MG	1a	1851	1/1	0.91	0.10	76,76,76,76	0
56	MG	1A	3412	1/1	0.91	0.12	56,56,56,56	0
56	MG	2A	3719	1/1	0.91	0.12	55,55,55,55	0
56	MG	2a	3061	1/1	0.91	0.22	69,69,69,69	0
56	MG	1A	3248	1/1	0.91	0.24	67,67,67,67	0
56	MG	2a	3065	1/1	0.91	0.28	47,47,47,47	0
56	MG	2A	3381	1/1	0.91	0.13	53,53,53,53	0
56	MG	1A	3945	1/1	0.91	0.14	35,35,35,35	0
56	MG	1a	1681	1/1	0.91	0.13	60,60,60,60	0
56	MG	1E	308	1/1	0.91	0.12	34,34,34,34	0
56	MG	1A	4089	1/1	0.91	0.14	64,64,64,64	0
56	MG	2a	3074	1/1	0.91	0.07	63,63,63,63	0
56	MG	1A	3549	1/1	0.91	0.30	50,50,50,50	0
56	MG	2A	3735	1/1	0.91	0.11	49,49,49,49	0
56	MG	2A	3739	1/1	0.91	0.13	52,52,52,52	0
56	MG	1E	313	1/1	0.91	0.23	47,47,47,47	0
56	MG	1A	3123	1/1	0.91	0.27	41,41,41,41	0
56	MG	1A	3040	1/1	0.91	0.18	43,43,43,43	0
56	MG	1a	1692	1/1	0.91	0.21	55,55,55,55	0
56	MG	2A	3747	1/1	0.91	0.16	47,47,47,47	0
56	MG	2A	3748	1/1	0.91	0.09	61,61,61,61	0
56	MG	1A	4104	1/1	0.91	0.11	32,32,32,32	0
56	MG	1a	1875	1/1	0.91	0.13	55,55,55,55	0
56	MG	2A	3755	1/1	0.91	0.16	47,47,47,47	0
56	MG	1A	3485	1/1	0.91	0.14	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3960	1/1	0.91	0.10	50,50,50,50	0
56	MG	2A	3758	1/1	0.91	0.13	53,53,53,53	0
56	MG	1a	1699	1/1	0.91	0.31	38,38,38,38	0
56	MG	1A	3222	1/1	0.91	0.15	71,71,71,71	0
56	MG	2A	3402	1/1	0.91	0.24	47,47,47,47	0
56	MG	1a	1705	1/1	0.91	0.25	65,65,65,65	0
56	MG	1G	3004	1/1	0.91	0.08	54,54,54,54	0
56	MG	2a	3117	1/1	0.91	0.20	63,63,63,63	0
56	MG	1A	3798	1/1	0.91	0.09	54,54,54,54	0
56	MG	2a	3119	1/1	0.91	0.06	63,63,63,63	0
56	MG	1A	4117	1/1	0.91	0.10	83,83,83,83	0
56	MG	1A	3566	1/1	0.91	0.12	46,46,46,46	0
56	MG	1a	1920	1/1	0.91	0.39	59,59,59,59	0
56	MG	2A	3412	1/1	0.91	0.28	53,53,53,53	0
56	MG	2a	3131	1/1	0.91	0.12	90,90,90,90	0
56	MG	2a	3133	1/1	0.91	0.09	94,94,94,94	0
56	MG	1N	3005	1/1	0.91	0.12	69,69,69,69	0
56	MG	1a	1929	1/1	0.91	0.19	57,57,57,57	0
56	MG	2A	3416	1/1	0.91	0.15	52,52,52,52	0
56	MG	1A	3652	1/1	0.91	0.16	52,52,52,52	0
56	MG	1c	302	1/1	0.91	0.25	71,71,71,71	0
56	MG	2a	3148	1/1	0.91	0.11	75,75,75,75	0
56	MG	1A	3224	1/1	0.91	0.07	50,50,50,50	0
56	MG	1a	1719	1/1	0.91	0.20	60,60,60,60	0
56	MG	1A	3971	1/1	0.91	0.12	31,31,31,31	0
56	MG	2A	3426	1/1	0.91	0.07	47,47,47,47	0
56	MG	2A	3228	1/1	0.91	0.17	53,53,53,53	0
56	MG	1A	3655	1/1	0.91	0.07	50,50,50,50	0
56	MG	2A	3812	1/1	0.91	0.10	48,48,48,48	0
56	MG	1A	4138	1/1	0.91	0.11	76,76,76,76	0
56	MG	2A	3814	1/1	0.91	0.19	56,56,56,56	0
56	MG	2A	3240	1/1	0.91	0.24	41,41,41,41	0
56	MG	2A	3438	1/1	0.91	0.30	44,44,44,44	0
56	MG	2A	3439	1/1	0.91	0.19	38,38,38,38	0
56	MG	1A	4139	1/1	0.91	0.07	34,34,34,34	0
56	MG	2a	3181	1/1	0.91	0.11	62,62,62,62	0
56	MG	1A	3052	1/1	0.91	0.10	59,59,59,59	0
56	MG	1w	106	1/1	0.91	0.13	63,63,63,63	0
56	MG	1U	206	1/1	0.91	0.30	41,41,41,41	0
56	MG	2A	3448	1/1	0.91	0.30	61,61,61,61	0
56	MG	1A	3430	1/1	0.91	0.10	50,50,50,50	0
56	MG	2A	3450	1/1	0.91	0.24	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3249	1/1	0.91	0.15	64,64,64,64	0
56	MG	2A	3842	1/1	0.91	0.11	35,35,35,35	0
56	MG	1A	3170	1/1	0.91	0.16	47,47,47,47	0
56	MG	1a	1730	1/1	0.91	0.18	57,57,57,57	0
56	MG	2A	3457	1/1	0.91	0.24	66,66,66,66	0
56	MG	2A	3252	1/1	0.91	0.12	66,66,66,66	0
56	MG	1x	107	1/1	0.91	0.20	66,66,66,66	0
56	MG	1A	3105	1/1	0.91	0.08	31,31,31,31	0
56	MG	2A	3870	1/1	0.91	0.10	45,45,45,45	0
56	MG	2A	3871	1/1	0.91	0.12	67,67,67,67	0
56	MG	1A	3580	1/1	0.91	0.17	57,57,57,57	0
56	MG	1A	4149	1/1	0.91	0.09	61,61,61,61	0
56	MG	2A	3463	1/1	0.91	0.21	59,59,59,59	0
56	MG	2A	3465	1/1	0.91	0.18	52,52,52,52	0
56	MG	1x	113	1/1	0.91	0.09	48,48,48,48	0
56	MG	1A	3034	1/1	0.91	0.32	51,51,51,51	0
56	MG	1A	3681	1/1	0.91	0.34	73,73,73,73	0
56	MG	1A	3834	1/1	0.91	0.13	28,28,28,28	0
56	MG	2a	3223	1/1	0.91	0.14	57,57,57,57	0
56	MG	1A	3682	1/1	0.91	0.14	40,40,40,40	0
56	MG	1A	3838	1/1	0.91	0.15	54,54,54,54	0
56	MG	1A	3683	1/1	0.91	0.19	76,76,76,76	0
56	MG	1A	3359	1/1	0.91	0.22	53,53,53,53	0
56	MG	1A	3857	1/1	0.91	0.15	29,29,29,29	0
56	MG	15	102	1/1	0.91	0.18	42,42,42,42	0
56	MG	2A	3273	1/1	0.91	0.17	58,58,58,58	0
56	MG	1A	3090	1/1	0.91	0.33	62,62,62,62	0
56	MG	2A	3018	1/1	0.91	0.13	56,56,56,56	0
56	MG	2A	3277	1/1	0.91	0.18	63,63,63,63	0
56	MG	1A	4182	1/1	0.91	0.12	57,57,57,57	0
56	MG	2A	3496	1/1	0.91	0.23	51,51,51,51	0
56	MG	1A	3867	1/1	0.91	0.07	62,62,62,62	0
56	MG	1a	1758	1/1	0.91	0.15	49,49,49,49	0
56	MG	1A	3689	1/1	0.91	0.27	30,30,30,30	0
56	MG	1A	3883	1/1	0.91	0.14	47,47,47,47	0
56	MG	1A	4197	1/1	0.91	0.12	59,59,59,59	0
56	MG	1A	4199	1/1	0.91	0.14	36,36,36,36	0
56	MG	1A	4005	1/1	0.91	0.15	58,58,58,58	0
56	MG	2A	3519	1/1	0.91	0.12	57,57,57,57	0
56	MG	2A	3520	1/1	0.91	0.11	55,55,55,55	0
56	MG	1A	4202	1/1	0.91	0.15	39,39,39,39	0
56	MG	1A	3285	1/1	0.91	0.42	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3055	1/1	0.91	0.08	55,55,55,55	0
56	MG	2A	3525	1/1	0.91	0.10	49,49,49,49	0
56	MG	1A	4009	1/1	0.91	0.11	81,81,81,81	0
56	MG	2B	3021	1/1	0.91	0.24	74,74,74,74	0
56	MG	1A	3510	1/1	0.91	0.25	50,50,50,50	0
56	MG	1A	3514	1/1	0.91	0.09	51,51,51,51	0
56	MG	2A	3061	1/1	0.91	0.18	51,51,51,51	0
56	MG	1a	1622	1/1	0.91	0.15	55,55,55,55	0
56	MG	1A	3326	1/1	0.91	0.11	53,53,53,53	0
56	MG	2F	304	1/1	0.91	0.34	52,52,52,52	0
56	MG	1A	4017	1/1	0.91	0.10	29,29,29,29	0
56	MG	1A	3518	1/1	0.91	0.24	81,81,81,81	0
56	MG	2A	3571	1/1	0.91	0.08	36,36,36,36	0
56	MG	2R	201	1/1	0.91	0.08	57,57,57,57	0
56	MG	1A	3400	1/1	0.91	0.13	56,56,56,56	0
56	MG	2y	3004	1/1	0.91	0.10	69,69,69,69	0
56	MG	2A	3581	1/1	0.91	0.09	42,42,42,42	0
56	MG	1A	3151	1/1	0.91	0.16	54,54,54,54	0
56	MG	1a	1635	1/1	0.91	0.34	62,62,62,62	0
56	MG	1A	3406	1/1	0.91	0.08	54,54,54,54	0
56	MG	2A	3319	1/1	0.91	0.09	57,57,57,57	0
56	MG	1A	4243	1/1	0.91	0.20	40,40,40,40	0
56	MG	2U	202	1/1	0.92	0.23	46,46,46,46	0
56	MG	1A	4174	1/1	0.92	0.09	83,83,83,83	0
56	MG	2U	205	1/1	0.92	0.13	49,49,49,49	0
56	MG	1A	3215	1/1	0.92	0.15	56,56,56,56	0
56	MG	2W	202	1/1	0.92	0.08	66,66,66,66	0
56	MG	1A	3539	1/1	0.92	0.18	57,57,57,57	0
56	MG	1A	3985	1/1	0.92	0.10	59,59,59,59	0
56	MG	1A	3807	1/1	0.92	0.10	44,44,44,44	0
56	MG	1A	3378	1/1	0.92	0.23	63,63,63,63	0
56	MG	2A	3322	1/1	0.92	0.17	58,58,58,58	0
56	MG	1A	3122	1/1	0.92	0.15	53,53,53,53	0
56	MG	2A	3610	1/1	0.92	0.19	62,62,62,62	0
56	MG	1A	3990	1/1	0.92	0.11	44,44,44,44	0
56	MG	25	104	1/1	0.92	0.14	51,51,51,51	0
56	MG	1A	3821	1/1	0.92	0.09	40,40,40,40	0
56	MG	2A	3618	1/1	0.92	0.08	46,46,46,46	0
56	MG	1A	4198	1/1	0.92	0.07	45,45,45,45	0
56	MG	1A	3266	1/1	0.92	0.07	54,54,54,54	0
56	MG	2A	3628	1/1	0.92	0.15	53,53,53,53	0
56	MG	1A	3545	1/1	0.92	0.18	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3654	1/1	0.92	0.10	52,52,52,52	0
56	MG	2A	3088	1/1	0.92	0.12	55,55,55,55	0
56	MG	2A	3633	1/1	0.92	0.10	59,59,59,59	0
56	MG	2A	3636	1/1	0.92	0.19	60,60,60,60	0
56	MG	1a	1796	1/1	0.92	0.18	51,51,51,51	0
56	MG	2A	3336	1/1	0.92	0.26	62,62,62,62	0
56	MG	2A	3642	1/1	0.92	0.16	44,44,44,44	0
56	MG	1A	3089	1/1	0.92	0.17	48,48,48,48	0
56	MG	1A	3657	1/1	0.92	0.07	49,49,49,49	0
56	MG	1A	3659	1/1	0.92	0.25	41,41,41,41	0
56	MG	2A	3093	1/1	0.92	0.33	48,48,48,48	0
56	MG	1A	3660	1/1	0.92	0.28	61,61,61,61	0
56	MG	1A	3840	1/1	0.92	0.10	44,44,44,44	0
56	MG	1A	3842	1/1	0.92	0.10	58,58,58,58	0
56	MG	2A	3101	1/1	0.92	0.17	51,51,51,51	0
56	MG	2A	3353	1/1	0.92	0.09	73,73,73,73	0
56	MG	1a	1808	1/1	0.92	0.37	61,61,61,61	0
56	MG	1A	3385	1/1	0.92	0.11	63,63,63,63	0
56	MG	1A	3663	1/1	0.92	0.09	39,39,39,39	0
56	MG	1A	3853	1/1	0.92	0.13	24,24,24,24	0
56	MG	1A	4013	1/1	0.92	0.10	50,50,50,50	0
56	MG	1a	1815	1/1	0.92	0.13	57,57,57,57	0
56	MG	2A	3115	1/1	0.92	0.24	46,46,46,46	0
56	MG	1A	3465	1/1	0.92	0.18	53,53,53,53	0
56	MG	2a	3032	1/1	0.92	0.09	65,65,65,65	0
56	MG	1a	1817	1/1	0.92	0.16	56,56,56,56	0
56	MG	1A	3557	1/1	0.92	0.10	59,59,59,59	0
56	MG	2A	3684	1/1	0.92	0.19	63,63,63,63	0
56	MG	2A	3365	1/1	0.92	0.12	58,58,58,58	0
56	MG	2A	3127	1/1	0.92	0.07	48,48,48,48	0
56	MG	2A	3689	1/1	0.92	0.11	53,53,53,53	0
56	MG	2A	3132	1/1	0.92	0.10	53,53,53,53	0
56	MG	2a	3045	1/1	0.92	0.14	68,68,68,68	0
56	MG	1A	4254	1/1	0.92	0.23	49,49,49,49	0
56	MG	1a	1824	1/1	0.92	0.13	67,67,67,67	0
56	MG	1A	3865	1/1	0.92	0.10	29,29,29,29	0
56	MG	1a	1828	1/1	0.92	0.08	67,67,67,67	0
56	MG	2a	3051	1/1	0.92	0.21	54,54,54,54	0
56	MG	1A	3329	1/1	0.92	0.23	54,54,54,54	0
56	MG	2A	3701	1/1	0.92	0.14	66,66,66,66	0
56	MG	2A	3156	1/1	0.92	0.10	53,53,53,53	0
56	MG	2A	3704	1/1	0.92	0.11	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1655	1/1	0.92	0.14	42,42,42,42	0
56	MG	2A	3158	1/1	0.92	0.17	58,58,58,58	0
56	MG	2A	3711	1/1	0.92	0.11	73,73,73,73	0
56	MG	1B	207	1/1	0.92	0.21	65,65,65,65	0
56	MG	1A	3564	1/1	0.92	0.19	40,40,40,40	0
56	MG	1A	3124	1/1	0.92	0.25	39,39,39,39	0
56	MG	1A	3886	1/1	0.92	0.14	26,26,26,26	0
56	MG	1a	1662	1/1	0.92	0.09	47,47,47,47	0
56	MG	2A	3172	1/1	0.92	0.11	55,55,55,55	0
56	MG	1A	3100	1/1	0.92	0.08	48,48,48,48	0
56	MG	1B	215	1/1	0.92	0.08	45,45,45,45	0
56	MG	1A	3335	1/1	0.92	0.33	56,56,56,56	0
56	MG	1B	221	1/1	0.92	0.16	65,65,65,65	0
56	MG	1A	3573	1/1	0.92	0.13	51,51,51,51	0
56	MG	1a	1671	1/1	0.92	0.08	53,53,53,53	0
56	MG	2A	3184	1/1	0.92	0.12	58,58,58,58	0
56	MG	2A	3394	1/1	0.92	0.14	61,61,61,61	0
56	MG	2A	3395	1/1	0.92	0.18	61,61,61,61	0
56	MG	1a	1673	1/1	0.92	0.18	69,69,69,69	0
56	MG	1A	3282	1/1	0.92	0.29	51,51,51,51	0
56	MG	1A	3181	1/1	0.92	0.18	53,53,53,53	0
56	MG	2A	3746	1/1	0.92	0.08	76,76,76,76	0
56	MG	1A	4056	1/1	0.92	0.15	51,51,51,51	0
56	MG	1A	3103	1/1	0.92	0.50	47,47,47,47	0
56	MG	1A	3348	1/1	0.92	0.09	53,53,53,53	0
56	MG	2A	3753	1/1	0.92	0.18	66,66,66,66	0
56	MG	1A	3579	1/1	0.92	0.08	45,45,45,45	0
56	MG	1A	3076	1/1	0.92	0.27	43,43,43,43	0
56	MG	2A	3198	1/1	0.92	0.10	48,48,48,48	0
56	MG	2A	3199	1/1	0.92	0.17	55,55,55,55	0
56	MG	1D	309	1/1	0.92	0.06	41,41,41,41	0
56	MG	1A	3295	1/1	0.92	0.17	55,55,55,55	0
56	MG	2a	3116	1/1	0.92	0.40	73,73,73,73	0
56	MG	1A	4065	1/1	0.92	0.08	64,64,64,64	0
56	MG	1a	1883	1/1	0.92	0.12	47,47,47,47	0
56	MG	1a	1891	1/1	0.92	0.10	91,91,91,91	0
56	MG	1A	3188	1/1	0.92	0.30	61,61,61,61	0
56	MG	2A	3418	1/1	0.92	0.11	64,64,64,64	0
56	MG	1a	1898	1/1	0.92	0.14	43,43,43,43	0
56	MG	1A	3914	1/1	0.92	0.12	41,41,41,41	0
56	MG	2a	3130	1/1	0.92	0.19	67,67,67,67	0
56	MG	1A	3587	1/1	0.92	0.09	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3916	1/1	0.92	0.09	53,53,53,53	0
56	MG	1A	3354	1/1	0.92	0.12	55,55,55,55	0
56	MG	2A	3779	1/1	0.92	0.09	73,73,73,73	0
56	MG	1E	310	1/1	0.92	0.31	49,49,49,49	0
56	MG	1A	3146	1/1	0.92	0.20	32,32,32,32	0
56	MG	1A	3927	1/1	0.92	0.14	65,65,65,65	0
56	MG	1a	1928	1/1	0.92	0.16	57,57,57,57	0
56	MG	2A	3434	1/1	0.92	0.29	46,46,46,46	0
56	MG	1a	1702	1/1	0.92	0.23	42,42,42,42	0
56	MG	2A	3798	1/1	0.92	0.17	75,75,75,75	0
56	MG	1A	3193	1/1	0.92	0.18	44,44,44,44	0
56	MG	1A	3063	1/1	0.92	0.28	51,51,51,51	0
56	MG	2A	3808	1/1	0.92	0.09	60,60,60,60	0
56	MG	2A	3440	1/1	0.92	0.16	42,42,42,42	0
56	MG	1a	1708	1/1	0.92	0.20	48,48,48,48	0
56	MG	1a	1709	1/1	0.92	0.14	73,73,73,73	0
56	MG	1F	305	1/1	0.92	0.18	39,39,39,39	0
56	MG	1A	3303	1/1	0.92	0.33	40,40,40,40	0
56	MG	1A	3499	1/1	0.92	0.18	62,62,62,62	0
56	MG	2A	3233	1/1	0.92	0.19	61,61,61,61	0
56	MG	2A	3236	1/1	0.92	0.15	61,61,61,61	0
56	MG	2A	3451	1/1	0.92	0.25	54,54,54,54	0
56	MG	1A	3416	1/1	0.92	0.13	65,65,65,65	0
56	MG	1A	4095	1/1	0.92	0.28	51,51,51,51	0
56	MG	1A	3304	1/1	0.92	0.20	55,55,55,55	0
56	MG	2A	3456	1/1	0.92	0.35	52,52,52,52	0
56	MG	1a	1718	1/1	0.92	0.15	57,57,57,57	0
56	MG	1A	3610	1/1	0.92	0.33	61,61,61,61	0
56	MG	2A	3247	1/1	0.92	0.29	56,56,56,56	0
56	MG	1w	110	1/1	0.92	0.22	78,78,78,78	0
56	MG	1A	3751	1/1	0.92	0.13	40,40,40,40	0
56	MG	1N	3002	1/1	0.92	0.09	46,46,46,46	0
56	MG	2a	3200	1/1	0.92	0.10	71,71,71,71	0
56	MG	1x	105	1/1	0.92	0.16	62,62,62,62	0
56	MG	2A	3464	1/1	0.92	0.11	53,53,53,53	0
56	MG	1A	4111	1/1	0.92	0.09	92,92,92,92	0
56	MG	2a	3206	1/1	0.92	0.09	58,58,58,58	0
56	MG	2A	3865	1/1	0.92	0.08	57,57,57,57	0
56	MG	2A	3467	1/1	0.92	0.26	56,56,56,56	0
56	MG	1A	3115	1/1	0.92	0.08	44,44,44,44	0
56	MG	1A	3419	1/1	0.92	0.29	61,61,61,61	0
56	MG	1A	3759	1/1	0.92	0.17	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3471	1/1	0.92	0.25	59,59,59,59	0
56	MG	1x	111	1/1	0.92	0.09	61,61,61,61	0
56	MG	1x	112	1/1	0.92	0.11	47,47,47,47	0
56	MG	2A	3474	1/1	0.92	0.24	53,53,53,53	0
56	MG	1A	3768	1/1	0.92	0.14	28,28,28,28	0
56	MG	1Q	203	1/1	0.92	0.14	53,53,53,53	0
56	MG	1A	3251	1/1	0.92	0.22	57,57,57,57	0
56	MG	1A	3950	1/1	0.92	0.09	68,68,68,68	0
56	MG	1A	3954	1/1	0.92	0.10	62,62,62,62	0
56	MG	1a	1739	1/1	0.92	0.10	49,49,49,49	0
56	MG	1A	3955	1/1	0.92	0.14	37,37,37,37	0
56	MG	2A	3268	1/1	0.92	0.17	59,59,59,59	0
56	MG	1A	3957	1/1	0.92	0.10	57,57,57,57	0
56	MG	2A	3494	1/1	0.92	0.14	59,59,59,59	0
56	MG	1A	3205	1/1	0.92	0.16	27,27,27,27	0
56	MG	2A	3005	1/1	0.92	0.28	56,56,56,56	0
56	MG	2A	3006	1/1	0.92	0.24	51,51,51,51	0
56	MG	1A	3316	1/1	0.92	0.19	51,51,51,51	0
56	MG	2A	3914	1/1	0.92	0.40	38,38,38,38	0
56	MG	1A	4140	1/1	0.92	0.18	74,74,74,74	0
56	MG	2A	3919	1/1	0.92	0.07	39,39,39,39	0
56	MG	2A	3500	1/1	0.92	0.25	33,33,33,33	0
56	MG	2B	3001	1/1	0.92	0.14	66,66,66,66	0
56	MG	1Y	502	1/1	0.92	0.07	50,50,50,50	0
56	MG	2q	201	1/1	0.92	0.09	55,55,55,55	0
56	MG	2A	3281	1/1	0.92	0.13	34,34,34,34	0
56	MG	1A	3632	1/1	0.92	0.35	60,60,60,60	0
56	MG	2A	3283	1/1	0.92	0.10	53,53,53,53	0
56	MG	2A	3025	1/1	0.92	0.53	55,55,55,55	0
56	MG	1A	3254	1/1	0.92	0.16	56,56,56,56	0
56	MG	1A	3431	1/1	0.92	0.20	47,47,47,47	0
56	MG	1A	3966	1/1	0.92	0.31	45,45,45,45	0
56	MG	1A	3434	1/1	0.92	0.08	51,51,51,51	0
56	MG	2A	3291	1/1	0.92	0.10	61,61,61,61	0
56	MG	2A	3527	1/1	0.92	0.07	38,38,38,38	0
56	MG	1A	3636	1/1	0.92	0.29	66,66,66,66	0
56	MG	1A	3210	1/1	0.92	0.07	67,67,67,67	0
56	MG	1A	3095	1/1	0.92	0.24	47,47,47,47	0
56	MG	2D	303	1/1	0.92	0.24	51,51,51,51	0
56	MG	1A	3321	1/1	0.92	0.16	57,57,57,57	0
56	MG	1A	4160	1/1	0.92	0.14	72,72,72,72	0
56	MG	2A	3054	1/1	0.92	0.10	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4162	1/1	0.92	0.14	68,68,68,68	0
56	MG	2A	3564	1/1	0.92	0.19	70,70,70,70	0
56	MG	15	105	1/1	0.92	0.13	62,62,62,62	0
56	MG	2A	3303	1/1	0.92	0.08	45,45,45,45	0
56	MG	1A	3533	1/1	0.92	0.20	53,53,53,53	0
56	MG	2A	3580	1/1	0.92	0.12	47,47,47,47	0
56	MG	1A	3535	1/1	0.92	0.32	56,56,56,56	0
56	MG	18	102	1/1	0.92	0.16	45,45,45,45	0
56	MG	1A	3803	1/1	0.92	0.18	48,48,48,48	0
56	MG	2A	3585	1/1	0.92	0.11	49,49,49,49	0
56	MG	2A	3530	1/1	0.93	0.07	45,45,45,45	0
56	MG	2A	3534	1/1	0.93	0.08	40,40,40,40	0
56	MG	1A	3887	1/1	0.93	0.11	29,29,29,29	0
56	MG	1A	3548	1/1	0.93	0.23	37,37,37,37	0
56	MG	2A	3540	1/1	0.93	0.09	54,54,54,54	0
56	MG	2E	304	1/1	0.93	0.09	55,55,55,55	0
56	MG	2A	3543	1/1	0.93	0.14	56,56,56,56	0
56	MG	2A	3014	1/1	0.93	0.19	40,40,40,40	0
56	MG	1A	3666	1/1	0.93	0.10	43,43,43,43	0
56	MG	1A	3083	1/1	0.93	0.17	41,41,41,41	0
56	MG	2A	3557	1/1	0.93	0.07	51,51,51,51	0
56	MG	2A	3558	1/1	0.93	0.07	38,38,38,38	0
56	MG	2A	3559	1/1	0.93	0.07	38,38,38,38	0
56	MG	2Q	3001	1/1	0.93	0.15	59,59,59,59	0
56	MG	1G	3002	1/1	0.93	0.28	63,63,63,63	0
56	MG	1G	3003	1/1	0.93	0.07	67,67,67,67	0
56	MG	2A	3290	1/1	0.93	0.13	62,62,62,62	0
56	MG	1A	3552	1/1	0.93	0.21	34,34,34,34	0
56	MG	1A	3264	1/1	0.93	0.30	57,57,57,57	0
56	MG	2A	3293	1/1	0.93	0.33	64,64,64,64	0
56	MG	2A	3031	1/1	0.93	0.14	46,46,46,46	0
56	MG	1A	3675	1/1	0.93	0.21	53,53,53,53	0
56	MG	2A	3033	1/1	0.93	0.07	53,53,53,53	0
56	MG	1A	3676	1/1	0.93	0.20	46,46,46,46	0
56	MG	2A	3039	1/1	0.93	0.06	42,42,42,42	0
56	MG	2A	3586	1/1	0.93	0.11	60,60,60,60	0
56	MG	1A	3907	1/1	0.93	0.29	35,35,35,35	0
56	MG	1A	3327	1/1	0.93	0.26	56,56,56,56	0
56	MG	2A	3043	1/1	0.93	0.11	50,50,50,50	0
56	MG	2A	3304	1/1	0.93	0.10	52,52,52,52	0
56	MG	2A	3045	1/1	0.93	0.07	48,48,48,48	0
56	MG	2A	3309	1/1	0.93	0.09	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3606	1/1	0.93	0.12	56,56,56,56	0
56	MG	1A	3169	1/1	0.93	0.19	59,59,59,59	0
56	MG	2A	3608	1/1	0.93	0.07	57,57,57,57	0
56	MG	2A	3051	1/1	0.93	0.19	54,54,54,54	0
56	MG	1A	3911	1/1	0.93	0.10	36,36,36,36	0
56	MG	2A	3613	1/1	0.93	0.11	62,62,62,62	0
56	MG	2A	3614	1/1	0.93	0.14	54,54,54,54	0
56	MG	1A	3558	1/1	0.93	0.18	48,48,48,48	0
56	MG	2A	3314	1/1	0.93	0.06	48,48,48,48	0
56	MG	1A	3463	1/1	0.93	0.11	59,59,59,59	0
56	MG	1R	202	1/1	0.93	0.18	36,36,36,36	0
56	MG	1a	1754	1/1	0.93	0.08	63,63,63,63	0
56	MG	1A	3561	1/1	0.93	0.43	42,42,42,42	0
56	MG	1A	3464	1/1	0.93	0.12	50,50,50,50	0
56	MG	1A	3048	1/1	0.93	0.09	34,34,34,34	0
56	MG	2a	3012	1/1	0.93	0.13	57,57,57,57	0
56	MG	1U	201	1/1	0.93	0.20	53,53,53,53	0
56	MG	1A	3172	1/1	0.93	0.07	60,60,60,60	0
56	MG	2A	3634	1/1	0.93	0.09	39,39,39,39	0
56	MG	1A	3923	1/1	0.93	0.07	67,67,67,67	0
56	MG	1V	202	1/1	0.93	0.06	65,65,65,65	0
56	MG	2a	3019	1/1	0.93	0.09	48,48,48,48	0
56	MG	1A	3690	1/1	0.93	0.11	52,52,52,52	0
56	MG	1a	1767	1/1	0.93	0.09	51,51,51,51	0
56	MG	1W	3006	1/1	0.93	0.08	35,35,35,35	0
56	MG	1A	3568	1/1	0.93	0.08	46,46,46,46	0
56	MG	2A	3334	1/1	0.93	0.15	54,54,54,54	0
56	MG	2A	3651	1/1	0.93	0.09	61,61,61,61	0
56	MG	2A	3652	1/1	0.93	0.23	45,45,45,45	0
56	MG	1A	3569	1/1	0.93	0.31	43,43,43,43	0
56	MG	2A	3075	1/1	0.93	0.16	46,46,46,46	0
56	MG	1A	3006	1/1	0.93	0.14	49,49,49,49	0
56	MG	2A	3659	1/1	0.93	0.12	45,45,45,45	0
56	MG	1A	3572	1/1	0.93	0.12	39,39,39,39	0
56	MG	1A	3393	1/1	0.93	0.10	67,67,67,67	0
56	MG	2A	3341	1/1	0.93	0.11	56,56,56,56	0
56	MG	1A	4125	1/1	0.93	0.10	77,77,77,77	0
56	MG	1A	3469	1/1	0.93	0.19	60,60,60,60	0
56	MG	1A	3720	1/1	0.93	0.08	37,37,37,37	0
56	MG	2a	3039	1/1	0.93	0.23	45,45,45,45	0
56	MG	1a	1784	1/1	0.93	0.25	59,59,59,59	0
56	MG	1A	3226	1/1	0.93	0.14	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3276	1/1	0.93	0.14	55,55,55,55	0
56	MG	1A	3940	1/1	0.93	0.27	47,47,47,47	0
56	MG	11	103	1/1	0.93	0.08	55,55,55,55	0
56	MG	2A	3681	1/1	0.93	0.12	66,66,66,66	0
56	MG	1A	3337	1/1	0.93	0.24	48,48,48,48	0
56	MG	1A	3944	1/1	0.93	0.07	69,69,69,69	0
56	MG	2a	3052	1/1	0.93	0.12	65,65,65,65	0
56	MG	2a	3053	1/1	0.93	0.07	82,82,82,82	0
56	MG	1A	3277	1/1	0.93	0.15	47,47,47,47	0
56	MG	2A	3686	1/1	0.93	0.11	49,49,49,49	0
56	MG	1a	1794	1/1	0.93	0.37	52,52,52,52	0
56	MG	1A	3138	1/1	0.93	0.50	49,49,49,49	0
56	MG	1A	3583	1/1	0.93	0.16	51,51,51,51	0
56	MG	1A	3402	1/1	0.93	0.10	53,53,53,53	0
56	MG	1A	4150	1/1	0.93	0.07	36,36,36,36	0
56	MG	2A	3112	1/1	0.93	0.12	60,60,60,60	0
56	MG	2a	3062	1/1	0.93	0.12	85,85,85,85	0
56	MG	2a	3063	1/1	0.93	0.12	64,64,64,64	0
56	MG	1a	1800	1/1	0.93	0.19	56,56,56,56	0
56	MG	1a	1801	1/1	0.93	0.12	59,59,59,59	0
56	MG	1a	1601	1/1	0.93	0.16	50,50,50,50	0
56	MG	2A	3700	1/1	0.93	0.07	56,56,56,56	0
56	MG	2a	3069	1/1	0.93	0.12	65,65,65,65	0
56	MG	1A	3053	1/1	0.93	0.11	62,62,62,62	0
56	MG	2A	3371	1/1	0.93	0.06	53,53,53,53	0
56	MG	2A	3372	1/1	0.93	0.09	54,54,54,54	0
56	MG	1A	3952	1/1	0.93	0.14	52,52,52,52	0
56	MG	1A	3738	1/1	0.93	0.08	34,34,34,34	0
56	MG	2a	3076	1/1	0.93	0.12	64,64,64,64	0
56	MG	1a	1807	1/1	0.93	0.05	51,51,51,51	0
56	MG	2A	3133	1/1	0.93	0.09	63,63,63,63	0
56	MG	2a	3080	1/1	0.93	0.31	62,62,62,62	0
56	MG	2a	3082	1/1	0.93	0.28	64,64,64,64	0
56	MG	2a	3083	1/1	0.93	0.17	62,62,62,62	0
56	MG	1A	4159	1/1	0.93	0.16	60,60,60,60	0
56	MG	1A	3741	1/1	0.93	0.06	58,58,58,58	0
56	MG	2A	3147	1/1	0.93	0.06	44,44,44,44	0
56	MG	2A	3151	1/1	0.93	0.18	53,53,53,53	0
56	MG	1a	1810	1/1	0.93	0.17	64,64,64,64	0
56	MG	1A	3405	1/1	0.93	0.14	51,51,51,51	0
56	MG	2a	3095	1/1	0.93	0.26	50,50,50,50	0
56	MG	1a	1608	1/1	0.93	0.14	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3749	1/1	0.93	0.09	44,44,44,44	0
56	MG	1A	3232	1/1	0.93	0.27	55,55,55,55	0
56	MG	2a	3104	1/1	0.93	0.43	81,81,81,81	0
56	MG	1A	4169	1/1	0.93	0.09	77,77,77,77	0
56	MG	2A	3161	1/1	0.93	0.10	54,54,54,54	0
56	MG	2A	3734	1/1	0.93	0.09	67,67,67,67	0
56	MG	1A	3591	1/1	0.93	0.30	48,48,48,48	0
56	MG	2A	3738	1/1	0.93	0.14	63,63,63,63	0
56	MG	2A	3390	1/1	0.93	0.18	43,43,43,43	0
56	MG	1A	4172	1/1	0.93	0.11	46,46,46,46	0
56	MG	1a	1620	1/1	0.93	0.12	54,54,54,54	0
56	MG	2A	3166	1/1	0.93	0.10	47,47,47,47	0
56	MG	1a	1821	1/1	0.93	0.14	66,66,66,66	0
56	MG	1A	3187	1/1	0.93	0.15	51,51,51,51	0
56	MG	2A	3170	1/1	0.93	0.12	38,38,38,38	0
56	MG	1A	3599	1/1	0.93	0.26	64,64,64,64	0
56	MG	2A	3749	1/1	0.93	0.09	49,49,49,49	0
56	MG	1A	3767	1/1	0.93	0.07	24,24,24,24	0
56	MG	1A	3490	1/1	0.93	0.06	50,50,50,50	0
56	MG	2a	3125	1/1	0.93	0.21	48,48,48,48	0
56	MG	2a	3126	1/1	0.93	0.15	49,49,49,49	0
56	MG	2a	3127	1/1	0.93	0.10	67,67,67,67	0
56	MG	2A	3175	1/1	0.93	0.20	54,54,54,54	0
56	MG	1A	3494	1/1	0.93	0.06	45,45,45,45	0
56	MG	2a	3132	1/1	0.93	0.08	59,59,59,59	0
56	MG	1a	1631	1/1	0.93	0.27	51,51,51,51	0
56	MG	2a	3134	1/1	0.93	0.12	74,74,74,74	0
56	MG	2A	3178	1/1	0.93	0.15	49,49,49,49	0
56	MG	1A	3969	1/1	0.93	0.07	44,44,44,44	0
56	MG	1a	1633	1/1	0.93	0.19	62,62,62,62	0
56	MG	1A	3113	1/1	0.93	0.18	61,61,61,61	0
56	MG	2a	3145	1/1	0.93	0.11	71,71,71,71	0
56	MG	1A	3238	1/1	0.93	0.33	39,39,39,39	0
56	MG	2A	3186	1/1	0.93	0.14	54,54,54,54	0
56	MG	2A	3764	1/1	0.93	0.09	51,51,51,51	0
56	MG	1A	4196	1/1	0.93	0.09	37,37,37,37	0
56	MG	1A	3606	1/1	0.93	0.10	54,54,54,54	0
56	MG	1A	3780	1/1	0.93	0.09	55,55,55,55	0
56	MG	1A	3782	1/1	0.93	0.13	26,26,26,26	0
56	MG	1A	3981	1/1	0.93	0.11	41,41,41,41	0
56	MG	1A	3497	1/1	0.93	0.17	59,59,59,59	0
56	MG	2A	3774	1/1	0.93	0.09	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4203	1/1	0.93	0.23	50,50,50,50	0
56	MG	2a	3171	1/1	0.93	0.06	71,71,71,71	0
56	MG	1A	3026	1/1	0.93	0.15	56,56,56,56	0
56	MG	2A	3780	1/1	0.93	0.10	57,57,57,57	0
56	MG	1A	3243	1/1	0.93	0.20	47,47,47,47	0
56	MG	2A	3200	1/1	0.93	0.23	73,73,73,73	0
56	MG	1a	1650	1/1	0.93	0.27	54,54,54,54	0
56	MG	1A	3615	1/1	0.93	0.09	33,33,33,33	0
56	MG	1A	3616	1/1	0.93	0.55	69,69,69,69	0
56	MG	2a	3186	1/1	0.93	0.14	62,62,62,62	0
56	MG	1A	3623	1/1	0.93	0.06	36,36,36,36	0
56	MG	1A	3799	1/1	0.93	0.19	47,47,47,47	0
56	MG	1A	3500	1/1	0.93	0.10	50,50,50,50	0
56	MG	1A	4221	1/1	0.93	0.13	35,35,35,35	0
56	MG	1A	3414	1/1	0.93	0.34	62,62,62,62	0
56	MG	2A	3441	1/1	0.93	0.22	36,36,36,36	0
56	MG	1A	3118	1/1	0.93	0.12	49,49,49,49	0
56	MG	2A	3443	1/1	0.93	0.21	43,43,43,43	0
56	MG	1A	4231	1/1	0.93	0.25	55,55,55,55	0
56	MG	1A	3627	1/1	0.93	0.22	55,55,55,55	0
56	MG	1A	3996	1/1	0.93	0.10	48,48,48,48	0
56	MG	1A	4244	1/1	0.93	0.15	39,39,39,39	0
56	MG	1A	4246	1/1	0.93	0.12	40,40,40,40	0
56	MG	1A	3505	1/1	0.93	0.21	44,44,44,44	0
56	MG	2A	3219	1/1	0.93	0.20	56,56,56,56	0
56	MG	1A	3092	1/1	0.93	0.08	53,53,53,53	0
56	MG	1A	4255	1/1	0.93	0.15	48,48,48,48	0
56	MG	2a	3212	1/1	0.93	0.13	71,71,71,71	0
56	MG	2a	3213	1/1	0.93	0.16	60,60,60,60	0
56	MG	1A	3044	1/1	0.93	0.21	48,48,48,48	0
56	MG	1A	3062	1/1	0.93	0.21	56,56,56,56	0
56	MG	2A	3225	1/1	0.93	0.22	54,54,54,54	0
56	MG	2a	3217	1/1	0.93	0.21	45,45,45,45	0
56	MG	2A	3836	1/1	0.93	0.08	46,46,46,46	0
56	MG	1B	205	1/1	0.93	0.12	48,48,48,48	0
56	MG	1A	3812	1/1	0.93	0.10	39,39,39,39	0
56	MG	1a	1931	1/1	0.93	0.06	49,49,49,49	0
56	MG	1A	4004	1/1	0.93	0.14	56,56,56,56	0
56	MG	1A	3511	1/1	0.93	0.21	44,44,44,44	0
56	MG	2A	3234	1/1	0.93	0.20	62,62,62,62	0
56	MG	1A	3513	1/1	0.93	0.31	36,36,36,36	0
56	MG	1A	3310	1/1	0.93	0.18	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1m	201	1/1	0.93	0.25	59,59,59,59	0
56	MG	1s	3001	1/1	0.93	0.20	61,61,61,61	0
56	MG	1A	3365	1/1	0.93	0.24	53,53,53,53	0
56	MG	2A	3245	1/1	0.93	0.16	51,51,51,51	0
56	MG	1A	3516	1/1	0.93	0.08	48,48,48,48	0
56	MG	1A	4012	1/1	0.93	0.10	68,68,68,68	0
56	MG	1A	3830	1/1	0.93	0.07	53,53,53,53	0
56	MG	2e	3001	1/1	0.93	0.10	66,66,66,66	0
56	MG	1B	224	1/1	0.93	0.20	76,76,76,76	0
56	MG	1A	4014	1/1	0.93	0.08	81,81,81,81	0
56	MG	1A	3207	1/1	0.93	0.12	47,47,47,47	0
56	MG	2A	3887	1/1	0.93	0.16	54,54,54,54	0
56	MG	1A	3428	1/1	0.93	0.08	46,46,46,46	0
56	MG	2A	3890	1/1	0.93	0.09	44,44,44,44	0
56	MG	1A	3252	1/1	0.93	0.08	66,66,66,66	0
56	MG	1a	1703	1/1	0.93	0.24	51,51,51,51	0
56	MG	1a	1704	1/1	0.93	0.39	67,67,67,67	0
56	MG	1A	3208	1/1	0.93	0.15	52,52,52,52	0
56	MG	1a	1706	1/1	0.93	0.13	54,54,54,54	0
56	MG	1A	3432	1/1	0.93	0.18	40,40,40,40	0
56	MG	2A	3491	1/1	0.93	0.21	37,37,37,37	0
56	MG	1A	3433	1/1	0.93	0.14	57,57,57,57	0
56	MG	1A	3209	1/1	0.93	0.10	57,57,57,57	0
56	MG	1A	3651	1/1	0.93	0.13	47,47,47,47	0
56	MG	1A	3163	1/1	0.93	0.21	49,49,49,49	0
56	MG	1A	4050	1/1	0.93	0.08	57,57,57,57	0
56	MG	1A	3444	1/1	0.93	0.11	45,45,45,45	0
56	MG	2A	3265	1/1	0.93	0.13	61,61,61,61	0
56	MG	2A	3266	1/1	0.93	0.10	62,62,62,62	0
56	MG	2A	3510	1/1	0.93	0.08	26,26,26,26	0
56	MG	1A	3859	1/1	0.93	0.10	37,37,37,37	0
56	MG	1A	3213	1/1	0.93	0.28	53,53,53,53	0
56	MG	1A	3258	1/1	0.93	0.13	53,53,53,53	0
56	MG	2B	3006	1/1	0.93	0.17	54,54,54,54	0
56	MG	2B	3008	1/1	0.93	0.18	50,50,50,50	0
56	MG	2A	3515	1/1	0.93	0.10	25,25,25,25	0
56	MG	1A	3259	1/1	0.93	0.12	61,61,61,61	0
56	MG	1A	3879	1/1	0.93	0.08	57,57,57,57	0
56	MG	2y	3006	1/1	0.93	0.07	106,106,106,106	0
56	MG	1A	3323	1/1	0.93	0.11	43,43,43,43	0
56	MG	1A	4062	1/1	0.93	0.07	76,76,76,76	0
57	CPT	1I	3002	4/5	0.93	0.20	70,77,97,175	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3279	1/1	0.93	0.17	60,60,60,60	0
56	MG	1A	3452	1/1	0.93	0.06	55,55,55,55	0
58	K	1A	4256	1/1	0.93	0.13	65,65,65,65	0
56	MG	1A	3546	1/1	0.93	0.11	50,50,50,50	0
56	MG	2A	3910	1/1	0.94	0.18	58,58,58,58	0
56	MG	2A	3911	1/1	0.94	0.11	43,43,43,43	0
56	MG	1A	3239	1/1	0.94	0.20	55,55,55,55	0
56	MG	1A	3032	1/1	0.94	0.24	47,47,47,47	0
56	MG	1A	3180	1/1	0.94	0.13	52,52,52,52	0
56	MG	1A	3733	1/1	0.94	0.11	21,21,21,21	0
56	MG	1A	3379	1/1	0.94	0.31	64,64,64,64	0
56	MG	1a	1854	1/1	0.94	0.13	68,68,68,68	0
56	MG	1A	3470	1/1	0.94	0.07	62,62,62,62	0
56	MG	1A	3953	1/1	0.94	0.07	54,54,54,54	0
56	MG	1a	1625	1/1	0.94	0.15	50,50,50,50	0
56	MG	2B	3005	1/1	0.94	0.09	64,64,64,64	0
56	MG	1A	4175	1/1	0.94	0.10	46,46,46,46	0
56	MG	1a	1627	1/1	0.94	0.12	46,46,46,46	0
56	MG	1A	3737	1/1	0.94	0.08	35,35,35,35	0
56	MG	1A	3309	1/1	0.94	0.25	47,47,47,47	0
56	MG	2A	3490	1/1	0.94	0.08	49,49,49,49	0
56	MG	1A	3956	1/1	0.94	0.11	55,55,55,55	0
56	MG	2A	3492	1/1	0.94	0.10	58,58,58,58	0
56	MG	2A	3493	1/1	0.94	0.10	45,45,45,45	0
56	MG	1A	3739	1/1	0.94	0.07	30,30,30,30	0
56	MG	1A	3018	1/1	0.94	0.30	50,50,50,50	0
56	MG	1A	4190	1/1	0.94	0.14	58,58,58,58	0
56	MG	2B	3019	1/1	0.94	0.27	66,66,66,66	0
56	MG	1a	1872	1/1	0.94	0.08	85,85,85,85	0
56	MG	1A	3743	1/1	0.94	0.17	43,43,43,43	0
56	MG	1A	4194	1/1	0.94	0.15	55,55,55,55	0
56	MG	1A	3084	1/1	0.94	0.12	42,42,42,42	0
56	MG	2E	303	1/1	0.94	0.15	51,51,51,51	0
56	MG	2A	3504	1/1	0.94	0.10	47,47,47,47	0
56	MG	2A	3505	1/1	0.94	0.12	58,58,58,58	0
56	MG	2A	3506	1/1	0.94	0.07	38,38,38,38	0
56	MG	1A	3588	1/1	0.94	0.09	50,50,50,50	0
56	MG	1a	1642	1/1	0.94	0.24	51,51,51,51	0
56	MG	1A	3964	1/1	0.94	0.31	37,37,37,37	0
56	MG	1a	1884	1/1	0.94	0.09	54,54,54,54	0
56	MG	1A	3314	1/1	0.94	0.08	53,53,53,53	0
56	MG	1A	3753	1/1	0.94	0.08	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3477	1/1	0.94	0.10	44,44,44,44	0
56	MG	1a	1647	1/1	0.94	0.15	49,49,49,49	0
56	MG	1a	1900	1/1	0.94	0.07	62,62,62,62	0
56	MG	1a	1906	1/1	0.94	0.08	50,50,50,50	0
56	MG	1A	3478	1/1	0.94	0.08	47,47,47,47	0
56	MG	1A	3598	1/1	0.94	0.20	54,54,54,54	0
56	MG	1a	1916	1/1	0.94	0.06	79,79,79,79	0
56	MG	2A	3529	1/1	0.94	0.07	35,35,35,35	0
56	MG	1a	1651	1/1	0.94	0.12	39,39,39,39	0
56	MG	1A	3763	1/1	0.94	0.08	37,37,37,37	0
56	MG	2A	3535	1/1	0.94	0.13	37,37,37,37	0
56	MG	1A	3479	1/1	0.94	0.10	57,57,57,57	0
56	MG	1a	1921	1/1	0.94	0.40	55,55,55,55	0
56	MG	2A	3538	1/1	0.94	0.11	48,48,48,48	0
56	MG	20	103	1/1	0.94	0.17	55,55,55,55	0
56	MG	1A	3247	1/1	0.94	0.17	71,71,71,71	0
56	MG	1a	1923	1/1	0.94	0.15	69,69,69,69	0
56	MG	1A	3184	1/1	0.94	0.04	61,61,61,61	0
56	MG	1A	3602	1/1	0.94	0.24	56,56,56,56	0
56	MG	1A	4217	1/1	0.94	0.15	57,57,57,57	0
56	MG	2A	3551	1/1	0.94	0.06	44,44,44,44	0
56	MG	2A	3553	1/1	0.94	0.08	42,42,42,42	0
56	MG	28	102	1/1	0.94	0.26	55,55,55,55	0
56	MG	1b	3002	1/1	0.94	0.08	65,65,65,65	0
56	MG	1A	3390	1/1	0.94	0.17	55,55,55,55	0
56	MG	1A	3056	1/1	0.94	0.21	50,50,50,50	0
56	MG	1e	3001	1/1	0.94	0.14	61,61,61,61	0
56	MG	1A	3605	1/1	0.94	0.06	48,48,48,48	0
56	MG	1A	4222	1/1	0.94	0.09	45,45,45,45	0
56	MG	1l	204	1/1	0.94	0.11	49,49,49,49	0
56	MG	1A	3035	1/1	0.94	0.08	54,54,54,54	0
56	MG	2A	3573	1/1	0.94	0.07	49,49,49,49	0
56	MG	1A	4227	1/1	0.94	0.13	38,38,38,38	0
56	MG	1A	3783	1/1	0.94	0.12	37,37,37,37	0
56	MG	1a	1672	1/1	0.94	0.16	61,61,61,61	0
56	MG	1A	3060	1/1	0.94	0.11	50,50,50,50	0
56	MG	1A	3019	1/1	0.94	0.17	45,45,45,45	0
56	MG	2A	3584	1/1	0.94	0.15	25,25,25,25	0
56	MG	1A	3492	1/1	0.94	0.21	47,47,47,47	0
56	MG	1A	3793	1/1	0.94	0.10	36,36,36,36	0
56	MG	1A	3611	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	4247	1/1	0.94	0.06	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1680	1/1	0.94	0.16	48,48,48,48	0
56	MG	1A	3129	1/1	0.94	0.10	41,41,41,41	0
56	MG	2A	3276	1/1	0.94	0.16	49,49,49,49	0
56	MG	1A	4253	1/1	0.94	0.32	45,45,45,45	0
56	MG	1x	103	1/1	0.94	0.18	59,59,59,59	0
56	MG	1A	3041	1/1	0.94	0.10	33,33,33,33	0
56	MG	1a	1684	1/1	0.94	0.13	55,55,55,55	0
56	MG	1A	3622	1/1	0.94	0.22	54,54,54,54	0
56	MG	1A	3197	1/1	0.94	0.15	55,55,55,55	0
56	MG	1B	202	1/1	0.94	0.23	56,56,56,56	0
56	MG	1A	3325	1/1	0.94	0.15	47,47,47,47	0
56	MG	1A	3257	1/1	0.94	0.26	49,49,49,49	0
56	MG	1A	3198	1/1	0.94	0.17	67,67,67,67	0
56	MG	1A	3137	1/1	0.94	0.22	38,38,38,38	0
56	MG	2A	3289	1/1	0.94	0.08	52,52,52,52	0
56	MG	2A	3623	1/1	0.94	0.16	57,57,57,57	0
56	MG	1x	115	1/1	0.94	0.14	49,49,49,49	0
56	MG	1A	3004	1/1	0.94	0.17	35,35,35,35	0
56	MG	2a	3042	1/1	0.94	0.21	81,81,81,81	0
56	MG	1A	3143	1/1	0.94	0.08	44,44,44,44	0
56	MG	1A	3504	1/1	0.94	0.09	51,51,51,51	0
56	MG	2A	3294	1/1	0.94	0.17	59,59,59,59	0
56	MG	1y	3002	1/1	0.94	0.05	55,55,55,55	0
56	MG	1A	4008	1/1	0.94	0.06	84,84,84,84	0
56	MG	1A	3408	1/1	0.94	0.17	48,48,48,48	0
56	MG	2A	3638	1/1	0.94	0.17	44,44,44,44	0
56	MG	1A	3096	1/1	0.94	0.13	46,46,46,46	0
56	MG	2A	3001	1/1	0.94	0.30	49,49,49,49	0
56	MG	1A	3098	1/1	0.94	0.12	57,57,57,57	0
56	MG	2A	3003	1/1	0.94	0.11	40,40,40,40	0
56	MG	2A	3004	1/1	0.94	0.19	44,44,44,44	0
56	MG	2A	3646	1/1	0.94	0.10	50,50,50,50	0
56	MG	2A	3647	1/1	0.94	0.17	39,39,39,39	0
56	MG	1A	3824	1/1	0.94	0.10	65,65,65,65	0
56	MG	1A	3509	1/1	0.94	0.16	38,38,38,38	0
56	MG	1A	3045	1/1	0.94	0.13	38,38,38,38	0
56	MG	2A	3654	1/1	0.94	0.24	54,54,54,54	0
56	MG	1A	3269	1/1	0.94	0.11	57,57,57,57	0
56	MG	2A	3013	1/1	0.94	0.11	42,42,42,42	0
56	MG	1A	3641	1/1	0.94	0.07	40,40,40,40	0
56	MG	2A	3658	1/1	0.94	0.18	36,36,36,36	0
56	MG	1A	4018	1/1	0.94	0.09	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3660	1/1	0.94	0.08	57,57,57,57	0
56	MG	1A	3831	1/1	0.94	0.09	46,46,46,46	0
56	MG	1B	233	1/1	0.94	0.14	82,82,82,82	0
56	MG	1a	1715	1/1	0.94	0.16	62,62,62,62	0
56	MG	2A	3028	1/1	0.94	0.31	47,47,47,47	0
56	MG	1A	3512	1/1	0.94	0.15	59,59,59,59	0
56	MG	1A	3339	1/1	0.94	0.08	53,53,53,53	0
56	MG	1A	3835	1/1	0.94	0.10	37,37,37,37	0
56	MG	1A	3415	1/1	0.94	0.12	57,57,57,57	0
56	MG	2A	3325	1/1	0.94	0.22	47,47,47,47	0
56	MG	2A	3326	1/1	0.94	0.15	57,57,57,57	0
56	MG	2a	3081	1/1	0.94	0.06	52,52,52,52	0
56	MG	1A	3148	1/1	0.94	0.17	40,40,40,40	0
56	MG	1a	1721	1/1	0.94	0.17	41,41,41,41	0
56	MG	1E	303	1/1	0.94	0.18	46,46,46,46	0
56	MG	1A	3341	1/1	0.94	0.14	46,46,46,46	0
56	MG	2A	3041	1/1	0.94	0.09	39,39,39,39	0
56	MG	2A	3685	1/1	0.94	0.07	44,44,44,44	0
56	MG	1A	3841	1/1	0.94	0.13	42,42,42,42	0
56	MG	1A	3517	1/1	0.94	0.11	53,53,53,53	0
56	MG	1A	3846	1/1	0.94	0.06	47,47,47,47	0
56	MG	2a	3096	1/1	0.94	0.17	70,70,70,70	0
56	MG	2A	3047	1/1	0.94	0.13	44,44,44,44	0
56	MG	1A	3271	1/1	0.94	0.19	47,47,47,47	0
56	MG	1A	3344	1/1	0.94	0.13	60,60,60,60	0
56	MG	2a	3103	1/1	0.94	0.14	65,65,65,65	0
56	MG	1A	3420	1/1	0.94	0.14	50,50,50,50	0
56	MG	1A	3521	1/1	0.94	0.07	71,71,71,71	0
56	MG	1A	3523	1/1	0.94	0.16	61,61,61,61	0
56	MG	2A	3697	1/1	0.94	0.05	42,42,42,42	0
56	MG	2A	3342	1/1	0.94	0.21	53,53,53,53	0
56	MG	1a	1736	1/1	0.94	0.20	44,44,44,44	0
56	MG	2a	3111	1/1	0.94	0.05	67,67,67,67	0
56	MG	1a	1738	1/1	0.94	0.21	51,51,51,51	0
56	MG	2A	3346	1/1	0.94	0.07	55,55,55,55	0
56	MG	1A	3860	1/1	0.94	0.13	36,36,36,36	0
56	MG	2A	3060	1/1	0.94	0.20	50,50,50,50	0
56	MG	1a	1741	1/1	0.94	0.15	51,51,51,51	0
56	MG	1A	3422	1/1	0.94	0.18	56,56,56,56	0
56	MG	1A	3345	1/1	0.94	0.26	57,57,57,57	0
56	MG	1A	3346	1/1	0.94	0.22	57,57,57,57	0
56	MG	1A	3871	1/1	0.94	0.11	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1G	3001	1/1	0.94	0.08	41,41,41,41	0
56	MG	1A	3877	1/1	0.94	0.08	40,40,40,40	0
56	MG	1A	4071	1/1	0.94	0.11	71,71,71,71	0
56	MG	1A	3347	1/1	0.94	0.27	42,42,42,42	0
56	MG	1A	4075	1/1	0.94	0.08	21,21,21,21	0
56	MG	2a	3128	1/1	0.94	0.12	60,60,60,60	0
56	MG	2A	3071	1/1	0.94	0.16	31,31,31,31	0
56	MG	1A	3661	1/1	0.94	0.24	61,61,61,61	0
56	MG	1A	4081	1/1	0.94	0.08	99,99,99,99	0
56	MG	1A	3272	1/1	0.94	0.20	55,55,55,55	0
56	MG	2A	3078	1/1	0.94	0.24	41,41,41,41	0
56	MG	2A	3079	1/1	0.94	0.12	47,47,47,47	0
56	MG	2A	3736	1/1	0.94	0.06	36,36,36,36	0
56	MG	2a	3141	1/1	0.94	0.09	57,57,57,57	0
56	MG	2A	3737	1/1	0.94	0.17	58,58,58,58	0
56	MG	1A	3429	1/1	0.94	0.12	48,48,48,48	0
56	MG	1N	3007	1/1	0.94	0.20	56,56,56,56	0
56	MG	1A	3664	1/1	0.94	0.14	51,51,51,51	0
56	MG	1A	3665	1/1	0.94	0.07	40,40,40,40	0
56	MG	1A	3068	1/1	0.94	0.15	55,55,55,55	0
56	MG	1P	201	1/1	0.94	0.36	34,34,34,34	0
56	MG	2A	3745	1/1	0.94	0.17	51,51,51,51	0
56	MG	1a	1762	1/1	0.94	0.18	60,60,60,60	0
56	MG	1P	202	1/1	0.94	0.15	39,39,39,39	0
56	MG	2a	3158	1/1	0.94	0.07	47,47,47,47	0
56	MG	1a	1764	1/1	0.94	0.09	36,36,36,36	0
56	MG	1a	1765	1/1	0.94	0.24	53,53,53,53	0
56	MG	1P	203	1/1	0.94	0.24	44,44,44,44	0
56	MG	2A	3752	1/1	0.94	0.15	45,45,45,45	0
56	MG	1a	1768	1/1	0.94	0.21	47,47,47,47	0
56	MG	1Q	201	1/1	0.94	0.13	37,37,37,37	0
56	MG	1a	1772	1/1	0.94	0.08	56,56,56,56	0
56	MG	1A	3275	1/1	0.94	0.33	45,45,45,45	0
56	MG	2a	3178	1/1	0.94	0.16	64,64,64,64	0
56	MG	1A	3150	1/1	0.94	0.08	43,43,43,43	0
56	MG	2A	3386	1/1	0.94	0.28	68,68,68,68	0
56	MG	1S	3001	1/1	0.94	0.11	52,52,52,52	0
56	MG	2a	3184	1/1	0.94	0.17	58,58,58,58	0
56	MG	2A	3109	1/1	0.94	0.14	58,58,58,58	0
56	MG	1A	4092	1/1	0.94	0.11	57,57,57,57	0
56	MG	1A	3672	1/1	0.94	0.06	40,40,40,40	0
56	MG	1T	201	1/1	0.94	0.15	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3114	1/1	0.94	0.18	51,51,51,51	0
56	MG	1A	3101	1/1	0.94	0.24	66,66,66,66	0
56	MG	1A	3278	1/1	0.94	0.25	55,55,55,55	0
56	MG	1A	3010	1/1	0.94	0.13	41,41,41,41	0
56	MG	2A	3770	1/1	0.94	0.09	52,52,52,52	0
56	MG	1A	3677	1/1	0.94	0.21	57,57,57,57	0
56	MG	2a	3197	1/1	0.94	0.23	63,63,63,63	0
56	MG	1a	1786	1/1	0.94	0.14	53,53,53,53	0
56	MG	2A	3128	1/1	0.94	0.17	56,56,56,56	0
56	MG	2A	3775	1/1	0.94	0.09	40,40,40,40	0
56	MG	2A	3129	1/1	0.94	0.09	56,56,56,56	0
56	MG	2a	3203	1/1	0.94	0.16	50,50,50,50	0
56	MG	2A	3130	1/1	0.94	0.14	47,47,47,47	0
56	MG	1A	4109	1/1	0.94	0.07	40,40,40,40	0
56	MG	1A	3442	1/1	0.94	0.24	40,40,40,40	0
56	MG	2A	3135	1/1	0.94	0.14	51,51,51,51	0
56	MG	1A	3283	1/1	0.94	0.20	42,42,42,42	0
56	MG	2A	3788	1/1	0.94	0.06	47,47,47,47	0
56	MG	2A	3790	1/1	0.94	0.13	61,61,61,61	0
56	MG	2A	3406	1/1	0.94	0.09	52,52,52,52	0
56	MG	2A	3407	1/1	0.94	0.09	62,62,62,62	0
56	MG	2A	3408	1/1	0.94	0.16	60,60,60,60	0
56	MG	2A	3142	1/1	0.94	0.09	51,51,51,51	0
56	MG	2A	3143	1/1	0.94	0.13	35,35,35,35	0
56	MG	2A	3144	1/1	0.94	0.15	39,39,39,39	0
56	MG	1X	102	1/1	0.94	0.10	45,45,45,45	0
56	MG	1A	3050	1/1	0.94	0.13	24,24,24,24	0
56	MG	2A	3149	1/1	0.94	0.21	35,35,35,35	0
56	MG	1A	3288	1/1	0.94	0.16	54,54,54,54	0
56	MG	1A	3447	1/1	0.94	0.14	58,58,58,58	0
56	MG	1A	4118	1/1	0.94	0.08	66,66,66,66	0
56	MG	1A	3291	1/1	0.94	0.14	49,49,49,49	0
56	MG	2A	3155	1/1	0.94	0.15	56,56,56,56	0
56	MG	1Z	303	1/1	0.94	0.20	62,62,62,62	0
56	MG	1A	3449	1/1	0.94	0.09	52,52,52,52	0
56	MG	1A	3158	1/1	0.94	0.09	47,47,47,47	0
56	MG	2A	3160	1/1	0.94	0.07	42,42,42,42	0
56	MG	1A	3921	1/1	0.94	0.10	53,53,53,53	0
56	MG	1A	3107	1/1	0.94	0.29	47,47,47,47	0
56	MG	1A	3454	1/1	0.94	0.14	51,51,51,51	0
56	MG	1A	4133	1/1	0.94	0.12	57,57,57,57	0
56	MG	1A	4135	1/1	0.94	0.11	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3455	1/1	0.94	0.30	41,41,41,41	0
56	MG	2A	3839	1/1	0.94	0.07	33,33,33,33	0
56	MG	2A	3840	1/1	0.94	0.10	49,49,49,49	0
56	MG	2A	3168	1/1	0.94	0.21	50,50,50,50	0
56	MG	13	101	1/1	0.94	0.10	50,50,50,50	0
56	MG	1A	3694	1/1	0.94	0.15	36,36,36,36	0
56	MG	2A	3171	1/1	0.94	0.12	61,61,61,61	0
56	MG	1A	3929	1/1	0.94	0.12	62,62,62,62	0
56	MG	1a	1811	1/1	0.94	0.33	68,68,68,68	0
56	MG	1A	3930	1/1	0.94	0.08	44,44,44,44	0
56	MG	1A	3701	1/1	0.94	0.06	31,31,31,31	0
56	MG	16	103	1/1	0.94	0.20	53,53,53,53	0
56	MG	1A	3456	1/1	0.94	0.23	57,57,57,57	0
56	MG	1A	3705	1/1	0.94	0.08	42,42,42,42	0
56	MG	2A	3179	1/1	0.94	0.17	55,55,55,55	0
56	MG	2w	101	1/1	0.94	0.15	65,65,65,65	0
56	MG	1A	3108	1/1	0.94	0.34	42,42,42,42	0
56	MG	1A	3166	1/1	0.94	0.24	42,42,42,42	0
56	MG	2A	3455	1/1	0.94	0.20	44,44,44,44	0
56	MG	2A	3880	1/1	0.94	0.07	55,55,55,55	0
56	MG	2A	3183	1/1	0.94	0.13	54,54,54,54	0
56	MG	1a	1819	1/1	0.94	0.07	46,46,46,46	0
56	MG	2A	3886	1/1	0.94	0.16	53,53,53,53	0
56	MG	1A	3077	1/1	0.94	0.28	39,39,39,39	0
56	MG	1A	3051	1/1	0.94	0.28	43,43,43,43	0
56	MG	1A	3370	1/1	0.94	0.23	55,55,55,55	0
56	MG	1A	3941	1/1	0.94	0.09	29,29,29,29	0
56	MG	1a	1826	1/1	0.94	0.09	68,68,68,68	0
56	MG	2A	3896	1/1	0.94	0.16	53,53,53,53	0
56	MG	1A	4155	1/1	0.94	0.08	19,19,19,19	0
56	MG	2A	3193	1/1	0.94	0.11	57,57,57,57	0
56	MG	1a	1830	1/1	0.94	0.07	36,36,36,36	0
56	MG	2A	3466	1/1	0.94	0.17	50,50,50,50	0
56	MG	1A	4156	1/1	0.94	0.07	54,54,54,54	0
56	MG	1A	3371	1/1	0.94	0.11	56,56,56,56	0
56	MG	2A	3197	1/1	0.94	0.08	44,44,44,44	0
56	MG	1A	3171	1/1	0.94	0.20	50,50,50,50	0
56	MG	1a	1840	1/1	0.95	0.10	50,50,50,50	0
56	MG	2A	3123	1/1	0.95	0.14	50,50,50,50	0
56	MG	1a	1842	1/1	0.95	0.10	61,61,61,61	0
56	MG	1A	3219	1/1	0.95	0.08	51,51,51,51	0
56	MG	2U	204	1/1	0.95	0.18	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3356	1/1	0.95	0.12	53,53,53,53	0
56	MG	2V	201	1/1	0.95	0.10	50,50,50,50	0
56	MG	1A	3220	1/1	0.95	0.11	47,47,47,47	0
56	MG	1a	1847	1/1	0.95	0.09	51,51,51,51	0
56	MG	2W	203	1/1	0.95	0.13	49,49,49,49	0
56	MG	1B	213	1/1	0.95	0.07	80,80,80,80	0
56	MG	1A	3133	1/1	0.95	0.21	36,36,36,36	0
56	MG	1B	218	1/1	0.95	0.20	22,22,22,22	0
56	MG	1a	1855	1/1	0.95	0.21	49,49,49,49	0
56	MG	2A	3136	1/1	0.95	0.10	41,41,41,41	0
56	MG	1a	1857	1/1	0.95	0.08	64,64,64,64	0
56	MG	1a	1660	1/1	0.95	0.06	49,49,49,49	0
56	MG	1A	3223	1/1	0.95	0.23	43,43,43,43	0
56	MG	1B	220	1/1	0.95	0.10	51,51,51,51	0
56	MG	1A	4069	1/1	0.95	0.11	89,89,89,89	0
56	MG	2A	3649	1/1	0.95	0.12	58,58,58,58	0
56	MG	2A	3369	1/1	0.95	0.09	52,52,52,52	0
56	MG	1A	3526	1/1	0.95	0.09	46,46,46,46	0
56	MG	1A	3135	1/1	0.95	0.14	39,39,39,39	0
56	MG	1A	4073	1/1	0.95	0.15	68,68,68,68	0
56	MG	1a	1668	1/1	0.95	0.11	48,48,48,48	0
56	MG	1A	3389	1/1	0.95	0.19	43,43,43,43	0
56	MG	1A	3746	1/1	0.95	0.06	51,51,51,51	0
56	MG	1A	4080	1/1	0.95	0.09	26,26,26,26	0
56	MG	1A	3917	1/1	0.95	0.11	36,36,36,36	0
56	MG	1A	3918	1/1	0.95	0.20	42,42,42,42	0
56	MG	2A	3662	1/1	0.95	0.17	52,52,52,52	0
56	MG	2A	3663	1/1	0.95	0.09	43,43,43,43	0
56	MG	1A	3919	1/1	0.95	0.16	47,47,47,47	0
56	MG	1A	3225	1/1	0.95	0.14	53,53,53,53	0
56	MG	1a	1877	1/1	0.95	0.09	72,72,72,72	0
56	MG	2A	3667	1/1	0.95	0.07	36,36,36,36	0
56	MG	1B	235	1/1	0.95	0.08	52,52,52,52	0
56	MG	2A	3670	1/1	0.95	0.06	42,42,42,42	0
56	MG	2a	3016	1/1	0.95	0.26	55,55,55,55	0
56	MG	1D	303	1/1	0.95	0.21	45,45,45,45	0
56	MG	1a	1882	1/1	0.95	0.13	52,52,52,52	0
56	MG	1A	3330	1/1	0.95	0.37	67,67,67,67	0
56	MG	1D	310	1/1	0.95	0.27	27,27,27,27	0
56	MG	1a	1887	1/1	0.95	0.08	57,57,57,57	0
56	MG	1a	1889	1/1	0.95	0.06	77,77,77,77	0
56	MG	2A	3680	1/1	0.95	0.10	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3922	1/1	0.95	0.07	44,44,44,44	0
56	MG	1a	1892	1/1	0.95	0.06	66,66,66,66	0
56	MG	1A	3102	1/1	0.95	0.09	42,42,42,42	0
56	MG	1A	3274	1/1	0.95	0.13	71,71,71,71	0
56	MG	1a	1685	1/1	0.95	0.31	53,53,53,53	0
56	MG	1A	3049	1/1	0.95	0.10	45,45,45,45	0
56	MG	1A	3228	1/1	0.95	0.10	37,37,37,37	0
56	MG	1A	3761	1/1	0.95	0.08	26,26,26,26	0
56	MG	1A	3396	1/1	0.95	0.23	43,43,43,43	0
56	MG	1A	3543	1/1	0.95	0.12	71,71,71,71	0
56	MG	2a	3035	1/1	0.95	0.10	81,81,81,81	0
56	MG	1A	3397	1/1	0.95	0.14	44,44,44,44	0
56	MG	2A	3693	1/1	0.95	0.07	49,49,49,49	0
56	MG	1A	3139	1/1	0.95	0.09	42,42,42,42	0
56	MG	1A	3183	1/1	0.95	0.14	54,54,54,54	0
56	MG	1F	301	1/1	0.95	0.13	68,68,68,68	0
56	MG	1A	3547	1/1	0.95	0.16	40,40,40,40	0
56	MG	1A	3281	1/1	0.95	0.21	53,53,53,53	0
56	MG	2A	3699	1/1	0.95	0.06	64,64,64,64	0
56	MG	1a	1926	1/1	0.95	0.11	55,55,55,55	0
56	MG	1A	3779	1/1	0.95	0.09	31,31,31,31	0
56	MG	1A	3401	1/1	0.95	0.07	46,46,46,46	0
56	MG	2a	3049	1/1	0.95	0.12	50,50,50,50	0
56	MG	1A	3550	1/1	0.95	0.17	34,34,34,34	0
56	MG	1A	3647	1/1	0.95	0.08	40,40,40,40	0
56	MG	1A	3551	1/1	0.95	0.15	33,33,33,33	0
56	MG	2A	3707	1/1	0.95	0.12	50,50,50,50	0
56	MG	1A	3787	1/1	0.95	0.07	35,35,35,35	0
56	MG	1A	3946	1/1	0.95	0.10	34,34,34,34	0
56	MG	1A	3140	1/1	0.95	0.18	37,37,37,37	0
56	MG	2A	3415	1/1	0.95	0.07	59,59,59,59	0
56	MG	1A	3650	1/1	0.95	0.12	45,45,45,45	0
56	MG	2A	3718	1/1	0.95	0.07	30,30,30,30	0
56	MG	2A	3417	1/1	0.95	0.18	60,60,60,60	0
56	MG	1A	3342	1/1	0.95	0.09	54,54,54,54	0
56	MG	2A	3420	1/1	0.95	0.09	61,61,61,61	0
56	MG	1A	3234	1/1	0.95	0.14	62,62,62,62	0
56	MG	1N	3001	1/1	0.95	0.20	56,56,56,56	0
56	MG	2A	3202	1/1	0.95	0.07	53,53,53,53	0
56	MG	1A	4136	1/1	0.95	0.06	59,59,59,59	0
56	MG	2a	3067	1/1	0.95	0.09	62,62,62,62	0
56	MG	1A	4137	1/1	0.95	0.16	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3556	1/1	0.95	0.26	45,45,45,45	0
56	MG	1A	3012	1/1	0.95	0.07	32,32,32,32	0
56	MG	1A	3475	1/1	0.95	0.17	48,48,48,48	0
56	MG	2a	3072	1/1	0.95	0.15	49,49,49,49	0
56	MG	1O	3002	1/1	0.95	0.19	59,59,59,59	0
56	MG	2A	3433	1/1	0.95	0.18	46,46,46,46	0
56	MG	1A	3476	1/1	0.95	0.21	53,53,53,53	0
56	MG	1A	3658	1/1	0.95	0.32	65,65,65,65	0
56	MG	2A	3436	1/1	0.95	0.21	54,54,54,54	0
56	MG	1A	3106	1/1	0.95	0.19	47,47,47,47	0
56	MG	1A	3563	1/1	0.95	0.25	44,44,44,44	0
56	MG	1x	101	1/1	0.95	0.08	45,45,45,45	0
56	MG	1A	3289	1/1	0.95	0.13	59,59,59,59	0
56	MG	1A	3290	1/1	0.95	0.26	49,49,49,49	0
56	MG	1x	104	1/1	0.95	0.17	68,68,68,68	0
56	MG	2a	3085	1/1	0.95	0.17	57,57,57,57	0
56	MG	1A	3016	1/1	0.95	0.15	50,50,50,50	0
56	MG	2A	3220	1/1	0.95	0.07	46,46,46,46	0
56	MG	1A	3567	1/1	0.95	0.09	38,38,38,38	0
56	MG	1A	3809	1/1	0.95	0.08	56,56,56,56	0
56	MG	1a	1733	1/1	0.95	0.15	41,41,41,41	0
56	MG	2a	3093	1/1	0.95	0.15	55,55,55,55	0
56	MG	2a	3094	1/1	0.95	0.16	61,61,61,61	0
56	MG	1A	3811	1/1	0.95	0.08	45,45,45,45	0
56	MG	1A	3481	1/1	0.95	0.11	52,52,52,52	0
56	MG	2A	3226	1/1	0.95	0.17	51,51,51,51	0
56	MG	1a	1737	1/1	0.95	0.07	51,51,51,51	0
56	MG	1A	3814	1/1	0.95	0.11	64,64,64,64	0
56	MG	2a	3101	1/1	0.95	0.14	40,40,40,40	0
56	MG	2a	3102	1/1	0.95	0.25	63,63,63,63	0
56	MG	1A	4157	1/1	0.95	0.07	61,61,61,61	0
56	MG	2A	3230	1/1	0.95	0.06	58,58,58,58	0
56	MG	1A	3482	1/1	0.95	0.10	53,53,53,53	0
56	MG	1A	3820	1/1	0.95	0.07	38,38,38,38	0
56	MG	1A	3191	1/1	0.95	0.24	48,48,48,48	0
56	MG	2A	3235	1/1	0.95	0.12	52,52,52,52	0
56	MG	2A	3767	1/1	0.95	0.11	52,52,52,52	0
56	MG	1A	4163	1/1	0.95	0.07	70,70,70,70	0
56	MG	1A	3669	1/1	0.95	0.31	48,48,48,48	0
56	MG	1W	3003	1/1	0.95	0.23	45,45,45,45	0
56	MG	1A	4167	1/1	0.95	0.08	47,47,47,47	0
56	MG	1A	3670	1/1	0.95	0.08	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3571	1/1	0.95	0.19	58,58,58,58	0
56	MG	1A	3980	1/1	0.95	0.11	33,33,33,33	0
56	MG	2A	3777	1/1	0.95	0.08	55,55,55,55	0
56	MG	1A	3242	1/1	0.95	0.50	40,40,40,40	0
56	MG	1A	3829	1/1	0.95	0.06	54,54,54,54	0
56	MG	1A	3017	1/1	0.95	0.23	44,44,44,44	0
56	MG	2A	3781	1/1	0.95	0.08	47,47,47,47	0
56	MG	1A	4176	1/1	0.95	0.12	55,55,55,55	0
56	MG	2A	3007	1/1	0.95	0.14	54,54,54,54	0
56	MG	1A	3066	1/1	0.95	0.16	46,46,46,46	0
56	MG	2A	3010	1/1	0.95	0.09	47,47,47,47	0
56	MG	2a	3129	1/1	0.95	0.33	65,65,65,65	0
56	MG	2A	3475	1/1	0.95	0.14	49,49,49,49	0
56	MG	1A	3245	1/1	0.95	0.16	60,60,60,60	0
56	MG	2A	3795	1/1	0.95	0.09	63,63,63,63	0
56	MG	2A	3477	1/1	0.95	0.32	44,44,44,44	0
56	MG	1A	3027	1/1	0.95	0.20	59,59,59,59	0
56	MG	2a	3135	1/1	0.95	0.07	95,95,95,95	0
56	MG	1A	3491	1/1	0.95	0.08	58,58,58,58	0
56	MG	2A	3015	1/1	0.95	0.07	34,34,34,34	0
56	MG	2A	3801	1/1	0.95	0.06	59,59,59,59	0
56	MG	1A	4183	1/1	0.95	0.24	33,33,33,33	0
56	MG	2A	3482	1/1	0.95	0.21	48,48,48,48	0
56	MG	1A	4185	1/1	0.95	0.13	43,43,43,43	0
56	MG	1A	3679	1/1	0.95	0.13	44,44,44,44	0
56	MG	1A	3069	1/1	0.95	0.14	45,45,45,45	0
56	MG	12	3002	1/1	0.95	0.12	48,48,48,48	0
56	MG	1A	4191	1/1	0.95	0.10	25,25,25,25	0
56	MG	1A	4192	1/1	0.95	0.18	52,52,52,52	0
56	MG	1a	1769	1/1	0.95	0.06	44,44,44,44	0
56	MG	2a	3156	1/1	0.95	0.06	77,77,77,77	0
56	MG	15	101	1/1	0.95	0.06	53,53,53,53	0
56	MG	1A	3302	1/1	0.95	0.19	33,33,33,33	0
56	MG	2A	3034	1/1	0.95	0.08	41,41,41,41	0
56	MG	2A	3035	1/1	0.95	0.17	30,30,30,30	0
56	MG	2a	3164	1/1	0.95	0.05	88,88,88,88	0
56	MG	1a	1774	1/1	0.95	0.09	51,51,51,51	0
56	MG	2A	3829	1/1	0.95	0.05	34,34,34,34	0
56	MG	15	104	1/1	0.95	0.15	42,42,42,42	0
56	MG	1A	3582	1/1	0.95	0.11	37,37,37,37	0
56	MG	1A	3094	1/1	0.95	0.05	52,52,52,52	0
56	MG	1A	3200	1/1	0.95	0.16	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3685	1/1	0.95	0.20	69,69,69,69	0
56	MG	1A	3686	1/1	0.95	0.12	52,52,52,52	0
56	MG	18	103	1/1	0.95	0.12	57,57,57,57	0
56	MG	2A	3049	1/1	0.95	0.11	21,21,21,21	0
56	MG	1A	3850	1/1	0.95	0.12	25,25,25,25	0
56	MG	1A	3306	1/1	0.95	0.17	40,40,40,40	0
56	MG	1A	3854	1/1	0.95	0.09	49,49,49,49	0
56	MG	1A	3855	1/1	0.95	0.10	34,34,34,34	0
56	MG	2A	3862	1/1	0.95	0.07	62,62,62,62	0
56	MG	2A	3863	1/1	0.95	0.16	68,68,68,68	0
56	MG	1A	3856	1/1	0.95	0.13	56,56,56,56	0
56	MG	1A	4205	1/1	0.95	0.14	46,46,46,46	0
56	MG	2A	3866	1/1	0.95	0.07	63,63,63,63	0
56	MG	1A	3586	1/1	0.95	0.14	44,44,44,44	0
56	MG	1A	3363	1/1	0.95	0.09	58,58,58,58	0
56	MG	1A	3426	1/1	0.95	0.08	52,52,52,52	0
56	MG	1A	3119	1/1	0.95	0.07	41,41,41,41	0
56	MG	2A	3526	1/1	0.95	0.07	48,48,48,48	0
56	MG	1A	3156	1/1	0.95	0.51	47,47,47,47	0
56	MG	1a	1614	1/1	0.95	0.05	63,63,63,63	0
56	MG	1A	3206	1/1	0.95	0.12	39,39,39,39	0
56	MG	2A	3879	1/1	0.95	0.07	91,91,91,91	0
56	MG	2a	3205	1/1	0.95	0.15	59,59,59,59	0
56	MG	2A	3533	1/1	0.95	0.08	44,44,44,44	0
56	MG	1a	1616	1/1	0.95	0.16	36,36,36,36	0
56	MG	1a	1617	1/1	0.95	0.15	59,59,59,59	0
56	MG	1a	1799	1/1	0.95	0.18	62,62,62,62	0
56	MG	2a	3211	1/1	0.95	0.11	71,71,71,71	0
56	MG	1A	3869	1/1	0.95	0.06	26,26,26,26	0
56	MG	1A	3055	1/1	0.95	0.10	34,34,34,34	0
56	MG	1A	3874	1/1	0.95	0.11	29,29,29,29	0
56	MG	1A	4223	1/1	0.95	0.07	39,39,39,39	0
56	MG	2A	3544	1/1	0.95	0.06	41,41,41,41	0
56	MG	1A	3875	1/1	0.95	0.05	69,69,69,69	0
56	MG	2a	3218	1/1	0.95	0.10	49,49,49,49	0
56	MG	1A	3876	1/1	0.95	0.09	48,48,48,48	0
56	MG	1A	3029	1/1	0.95	0.12	41,41,41,41	0
56	MG	2A	3550	1/1	0.95	0.07	41,41,41,41	0
56	MG	1A	3097	1/1	0.95	0.20	31,31,31,31	0
56	MG	2A	3901	1/1	0.95	0.10	77,77,77,77	0
56	MG	2a	3224	1/1	0.95	0.12	67,67,67,67	0
56	MG	1a	1628	1/1	0.95	0.28	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3555	1/1	0.95	0.07	36,36,36,36	0
56	MG	2A	3907	1/1	0.95	0.05	38,38,38,38	0
56	MG	1a	1629	1/1	0.95	0.10	43,43,43,43	0
56	MG	1A	4232	1/1	0.95	0.44	62,62,62,62	0
56	MG	2A	3084	1/1	0.95	0.13	54,54,54,54	0
56	MG	2A	3085	1/1	0.95	0.11	55,55,55,55	0
56	MG	2A	3086	1/1	0.95	0.09	51,51,51,51	0
56	MG	1A	4234	1/1	0.95	0.29	46,46,46,46	0
56	MG	1A	3030	1/1	0.95	0.17	40,40,40,40	0
56	MG	2A	3918	1/1	0.95	0.41	52,52,52,52	0
56	MG	2A	3320	1/1	0.95	0.19	55,55,55,55	0
56	MG	2A	3572	1/1	0.95	0.07	40,40,40,40	0
56	MG	2A	3921	1/1	0.95	0.09	65,65,65,65	0
56	MG	1A	3716	1/1	0.95	0.09	44,44,44,44	0
56	MG	2A	3576	1/1	0.95	0.06	29,29,29,29	0
56	MG	2A	3578	1/1	0.95	0.05	29,29,29,29	0
56	MG	1A	4037	1/1	0.95	0.10	64,64,64,64	0
56	MG	1A	3212	1/1	0.95	0.10	53,53,53,53	0
56	MG	1A	3435	1/1	0.95	0.20	53,53,53,53	0
56	MG	1A	3437	1/1	0.95	0.17	59,59,59,59	0
56	MG	2A	3096	1/1	0.95	0.06	42,42,42,42	0
56	MG	1A	3889	1/1	0.95	0.07	49,49,49,49	0
56	MG	1A	3078	1/1	0.95	0.06	46,46,46,46	0
56	MG	2v	101	1/1	0.95	0.21	55,55,55,55	0
56	MG	1A	3892	1/1	0.95	0.08	60,60,60,60	0
56	MG	1a	1823	1/1	0.95	0.17	51,51,51,51	0
56	MG	1A	3167	1/1	0.95	0.08	41,41,41,41	0
56	MG	2A	3592	1/1	0.95	0.08	52,52,52,52	0
56	MG	1A	3263	1/1	0.95	0.21	61,61,61,61	0
56	MG	1A	3901	1/1	0.95	0.14	60,60,60,60	0
56	MG	1a	1827	1/1	0.95	0.07	66,66,66,66	0
56	MG	2A	3603	1/1	0.95	0.07	44,44,44,44	0
56	MG	2A	3108	1/1	0.95	0.12	39,39,39,39	0
56	MG	1A	3059	1/1	0.95	0.35	63,63,63,63	0
56	MG	1B	206	1/1	0.95	0.12	51,51,51,51	0
56	MG	1a	1648	1/1	0.95	0.06	53,53,53,53	0
56	MG	1A	3380	1/1	0.95	0.08	50,50,50,50	0
56	MG	2E	306	1/1	0.95	0.07	42,42,42,42	0
56	MG	2x	104	1/1	0.95	0.07	58,58,58,58	0
56	MG	2x	105	1/1	0.95	0.24	59,59,59,59	0
56	MG	1A	3381	1/1	0.95	0.10	38,38,38,38	0
56	MG	2y	3001	1/1	0.95	0.04	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1836	1/1	0.95	0.08	44,44,44,44	0
56	MG	2A	3116	1/1	0.95	0.23	40,40,40,40	0
56	MG	2A	3615	1/1	0.95	0.07	47,47,47,47	0
56	MG	2A	3118	1/1	0.95	0.17	52,52,52,52	0
56	MG	2A	3347	1/1	0.95	0.10	51,51,51,51	0
56	MG	2A	3120	1/1	0.95	0.12	34,34,34,34	0
56	MG	2O	8001	1/1	0.95	0.11	50,50,50,50	0
56	MG	2P	201	1/1	0.95	0.28	57,57,57,57	0
56	MG	2A	3620	1/1	0.95	0.13	40,40,40,40	0
56	MG	2A	3621	1/1	0.95	0.11	32,32,32,32	0
56	MG	1A	3011	1/1	0.95	0.08	42,42,42,42	0
56	MG	2A	3350	1/1	0.95	0.09	44,44,44,44	0
56	MG	1A	4040	1/1	0.96	0.07	74,74,74,74	0
56	MG	2A	3074	1/1	0.96	0.06	38,38,38,38	0
56	MG	1A	4041	1/1	0.96	0.05	71,71,71,71	0
56	MG	1A	4043	1/1	0.96	0.12	38,38,38,38	0
56	MG	2A	3077	1/1	0.96	0.06	46,46,46,46	0
56	MG	1A	3900	1/1	0.96	0.05	64,64,64,64	0
56	MG	1a	1803	1/1	0.96	0.25	51,51,51,51	0
56	MG	1a	1610	1/1	0.96	0.13	64,64,64,64	0
56	MG	1A	4047	1/1	0.96	0.10	58,58,58,58	0
56	MG	1A	3237	1/1	0.96	0.28	39,39,39,39	0
56	MG	1A	4225	1/1	0.96	0.17	35,35,35,35	0
56	MG	1A	4226	1/1	0.96	0.20	38,38,38,38	0
56	MG	2A	3337	1/1	0.96	0.10	53,53,53,53	0
56	MG	2A	3624	1/1	0.96	0.07	45,45,45,45	0
56	MG	2A	3626	1/1	0.96	0.13	48,48,48,48	0
56	MG	1A	3162	1/1	0.96	0.39	40,40,40,40	0
56	MG	1A	3376	1/1	0.96	0.07	48,48,48,48	0
56	MG	1A	3199	1/1	0.96	0.29	56,56,56,56	0
56	MG	1A	3240	1/1	0.96	0.17	39,39,39,39	0
56	MG	1a	1621	1/1	0.96	0.07	59,59,59,59	0
56	MG	1A	4233	1/1	0.96	0.11	47,47,47,47	0
56	MG	1A	3908	1/1	0.96	0.09	47,47,47,47	0
56	MG	2X	101	1/1	0.96	0.08	45,45,45,45	0
56	MG	2A	3635	1/1	0.96	0.07	53,53,53,53	0
56	MG	2A	3345	1/1	0.96	0.07	58,58,58,58	0
56	MG	2A	3637	1/1	0.96	0.07	35,35,35,35	0
56	MG	2A	3095	1/1	0.96	0.09	48,48,48,48	0
56	MG	1A	4238	1/1	0.96	0.21	39,39,39,39	0
56	MG	1A	4239	1/1	0.96	0.27	33,33,33,33	0
56	MG	23	3003	1/1	0.96	0.07	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3641	1/1	0.96	0.07	36,36,36,36	0
56	MG	1A	3279	1/1	0.96	0.06	40,40,40,40	0
56	MG	2A	3643	1/1	0.96	0.07	51,51,51,51	0
56	MG	1A	3111	1/1	0.96	0.12	38,38,38,38	0
56	MG	27	101	1/1	0.96	0.12	45,45,45,45	0
56	MG	2A	3351	1/1	0.96	0.18	48,48,48,48	0
56	MG	1A	3770	1/1	0.96	0.07	36,36,36,36	0
56	MG	1A	3201	1/1	0.96	0.15	28,28,28,28	0
56	MG	2A	3103	1/1	0.96	0.10	28,28,28,28	0
56	MG	1a	1822	1/1	0.96	0.11	45,45,45,45	0
56	MG	1A	3502	1/1	0.96	0.11	55,55,55,55	0
56	MG	1A	3085	1/1	0.96	0.10	48,48,48,48	0
56	MG	2A	3653	1/1	0.96	0.06	34,34,34,34	0
56	MG	2A	3107	1/1	0.96	0.11	50,50,50,50	0
56	MG	1A	4249	1/1	0.96	0.14	46,46,46,46	0
56	MG	1A	4251	1/1	0.96	0.13	49,49,49,49	0
56	MG	1A	3443	1/1	0.96	0.06	42,42,42,42	0
56	MG	1A	3025	1/1	0.96	0.13	45,45,45,45	0
56	MG	1A	3332	1/1	0.96	0.10	49,49,49,49	0
56	MG	1a	1638	1/1	0.96	0.07	45,45,45,45	0
56	MG	1A	3781	1/1	0.96	0.11	26,26,26,26	0
56	MG	1A	4070	1/1	0.96	0.09	51,51,51,51	0
56	MG	2A	3117	1/1	0.96	0.10	54,54,54,54	0
56	MG	1A	3286	1/1	0.96	0.09	62,62,62,62	0
56	MG	2A	3119	1/1	0.96	0.15	48,48,48,48	0
56	MG	1A	3508	1/1	0.96	0.21	41,41,41,41	0
56	MG	1A	3784	1/1	0.96	0.10	65,65,65,65	0
56	MG	1a	1841	1/1	0.96	0.11	52,52,52,52	0
56	MG	1A	4074	1/1	0.96	0.10	58,58,58,58	0
56	MG	1a	1843	1/1	0.96	0.11	50,50,50,50	0
56	MG	1a	1844	1/1	0.96	0.09	52,52,52,52	0
56	MG	1A	3334	1/1	0.96	0.20	54,54,54,54	0
56	MG	1A	4076	1/1	0.96	0.07	30,30,30,30	0
56	MG	1A	3388	1/1	0.96	0.23	45,45,45,45	0
56	MG	2A	3131	1/1	0.96	0.11	56,56,56,56	0
56	MG	2A	3679	1/1	0.96	0.09	51,51,51,51	0
56	MG	1a	1848	1/1	0.96	0.20	44,44,44,44	0
56	MG	1A	3925	1/1	0.96	0.06	32,32,32,32	0
56	MG	1A	3788	1/1	0.96	0.09	27,27,27,27	0
56	MG	1A	3031	1/1	0.96	0.13	27,27,27,27	0
56	MG	1B	216	1/1	0.96	0.08	37,37,37,37	0
56	MG	1a	1856	1/1	0.96	0.11	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	1652	1/1	0.96	0.19	41,41,41,41	0
56	MG	1a	1653	1/1	0.96	0.14	48,48,48,48	0
56	MG	2A	3145	1/1	0.96	0.13	49,49,49,49	0
56	MG	1B	217	1/1	0.96	0.05	28,28,28,28	0
56	MG	2a	3040	1/1	0.96	0.23	44,44,44,44	0
56	MG	1A	4084	1/1	0.96	0.16	78,78,78,78	0
56	MG	1a	1656	1/1	0.96	0.17	40,40,40,40	0
56	MG	2A	3150	1/1	0.96	0.13	38,38,38,38	0
56	MG	1A	3116	1/1	0.96	0.19	33,33,33,33	0
56	MG	1A	3142	1/1	0.96	0.15	22,22,22,22	0
56	MG	1A	3794	1/1	0.96	0.07	32,32,32,32	0
56	MG	1a	1867	1/1	0.96	0.07	83,83,83,83	0
56	MG	1B	222	1/1	0.96	0.10	59,59,59,59	0
56	MG	1A	3338	1/1	0.96	0.23	50,50,50,50	0
56	MG	1A	3043	1/1	0.96	0.25	34,34,34,34	0
56	MG	1A	3589	1/1	0.96	0.26	53,53,53,53	0
56	MG	1A	3934	1/1	0.96	0.07	64,64,64,64	0
56	MG	1A	3021	1/1	0.96	0.06	43,43,43,43	0
56	MG	1a	1666	1/1	0.96	0.10	49,49,49,49	0
56	MG	1A	4094	1/1	0.96	0.06	22,22,22,22	0
56	MG	1A	3174	1/1	0.96	0.25	47,47,47,47	0
56	MG	2A	3710	1/1	0.96	0.10	28,28,28,28	0
56	MG	1A	4096	1/1	0.96	0.13	17,17,17,17	0
56	MG	1a	1879	1/1	0.96	0.10	49,49,49,49	0
56	MG	1B	232	1/1	0.96	0.10	44,44,44,44	0
56	MG	1A	4098	1/1	0.96	0.10	81,81,81,81	0
56	MG	1A	3592	1/1	0.96	0.23	41,41,41,41	0
56	MG	1A	4100	1/1	0.96	0.05	95,95,95,95	0
56	MG	1D	302	1/1	0.96	0.08	44,44,44,44	0
56	MG	1a	1676	1/1	0.96	0.24	60,60,60,60	0
56	MG	1A	3177	1/1	0.96	0.15	42,42,42,42	0
56	MG	2A	3722	1/1	0.96	0.08	48,48,48,48	0
56	MG	1D	304	1/1	0.96	0.05	19,19,19,19	0
56	MG	1D	305	1/1	0.96	0.11	48,48,48,48	0
56	MG	1D	307	1/1	0.96	0.15	25,25,25,25	0
56	MG	2A	3419	1/1	0.96	0.07	46,46,46,46	0
56	MG	2A	3729	1/1	0.96	0.08	48,48,48,48	0
56	MG	2A	3730	1/1	0.96	0.08	40,40,40,40	0
56	MG	2A	3731	1/1	0.96	0.12	62,62,62,62	0
56	MG	1A	3179	1/1	0.96	0.08	39,39,39,39	0
56	MG	1A	3145	1/1	0.96	0.23	45,45,45,45	0
56	MG	1A	3216	1/1	0.96	0.10	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3079	1/1	0.96	0.12	40,40,40,40	0
56	MG	1A	4112	1/1	0.96	0.08	43,43,43,43	0
56	MG	1a	1909	1/1	0.96	0.06	64,64,64,64	0
56	MG	1a	1912	1/1	0.96	0.06	69,69,69,69	0
56	MG	1A	4113	1/1	0.96	0.06	60,60,60,60	0
56	MG	1a	1687	1/1	0.96	0.17	73,73,73,73	0
56	MG	2A	3188	1/1	0.96	0.12	57,57,57,57	0
56	MG	2A	3430	1/1	0.96	0.26	57,57,57,57	0
56	MG	2a	3087	1/1	0.96	0.09	64,64,64,64	0
56	MG	2a	3088	1/1	0.96	0.09	63,63,63,63	0
56	MG	1A	3300	1/1	0.96	0.11	52,52,52,52	0
56	MG	1E	304	1/1	0.96	0.11	51,51,51,51	0
56	MG	1a	1919	1/1	0.96	0.07	54,54,54,54	0
56	MG	1A	3524	1/1	0.96	0.15	43,43,43,43	0
56	MG	1A	3120	1/1	0.96	0.30	41,41,41,41	0
56	MG	2A	3437	1/1	0.96	0.22	45,45,45,45	0
56	MG	1A	3054	1/1	0.96	0.07	53,53,53,53	0
56	MG	1A	3349	1/1	0.96	0.09	41,41,41,41	0
56	MG	1a	1924	1/1	0.96	0.14	43,43,43,43	0
56	MG	1A	3104	1/1	0.96	0.17	54,54,54,54	0
56	MG	1A	4121	1/1	0.96	0.07	91,91,91,91	0
56	MG	1a	1696	1/1	0.96	0.04	55,55,55,55	0
56	MG	1a	1698	1/1	0.96	0.21	36,36,36,36	0
56	MG	1A	3815	1/1	0.96	0.10	44,44,44,44	0
56	MG	1A	3816	1/1	0.96	0.18	58,58,58,58	0
56	MG	1a	1701	1/1	0.96	0.29	46,46,46,46	0
56	MG	1A	3687	1/1	0.96	0.22	39,39,39,39	0
56	MG	2A	3205	1/1	0.96	0.08	45,45,45,45	0
56	MG	2A	3763	1/1	0.96	0.06	49,49,49,49	0
56	MG	1e	3002	1/1	0.96	0.12	65,65,65,65	0
56	MG	1A	3819	1/1	0.96	0.09	58,58,58,58	0
56	MG	1F	304	1/1	0.96	0.08	44,44,44,44	0
56	MG	1l	203	1/1	0.96	0.09	75,75,75,75	0
56	MG	1A	3221	1/1	0.96	0.08	46,46,46,46	0
56	MG	1F	306	1/1	0.96	0.42	47,47,47,47	0
56	MG	1n	502	1/1	0.96	0.14	41,41,41,41	0
56	MG	1A	4129	1/1	0.96	0.13	56,56,56,56	0
56	MG	1A	3305	1/1	0.96	0.15	35,35,35,35	0
56	MG	1v	3001	1/1	0.96	0.06	64,64,64,64	0
56	MG	2A	3216	1/1	0.96	0.20	54,54,54,54	0
56	MG	2a	3122	1/1	0.96	0.12	53,53,53,53	0
56	MG	2A	3776	1/1	0.96	0.10	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3022	1/1	0.96	0.05	28,28,28,28	0
56	MG	1A	3307	1/1	0.96	0.24	53,53,53,53	0
56	MG	1A	3959	1/1	0.96	0.11	46,46,46,46	0
56	MG	1A	3614	1/1	0.96	0.06	40,40,40,40	0
56	MG	1A	3693	1/1	0.96	0.22	57,57,57,57	0
56	MG	1A	3005	1/1	0.96	0.11	53,53,53,53	0
56	MG	1A	3963	1/1	0.96	0.26	38,38,38,38	0
56	MG	1A	3695	1/1	0.96	0.11	37,37,37,37	0
56	MG	1A	4143	1/1	0.96	0.17	36,36,36,36	0
56	MG	1A	4144	1/1	0.96	0.10	34,34,34,34	0
56	MG	1A	3699	1/1	0.96	0.08	24,24,24,24	0
56	MG	2A	3794	1/1	0.96	0.09	74,74,74,74	0
56	MG	1A	3067	1/1	0.96	0.08	44,44,44,44	0
56	MG	1N	3006	1/1	0.96	0.11	46,46,46,46	0
56	MG	1A	3702	1/1	0.96	0.08	56,56,56,56	0
56	MG	2A	3231	1/1	0.96	0.31	49,49,49,49	0
56	MG	1A	3619	1/1	0.96	0.14	41,41,41,41	0
56	MG	1A	3620	1/1	0.96	0.36	59,59,59,59	0
56	MG	2A	3803	1/1	0.96	0.15	64,64,64,64	0
56	MG	2A	3804	1/1	0.96	0.09	74,74,74,74	0
56	MG	1A	3707	1/1	0.96	0.12	43,43,43,43	0
56	MG	1A	3708	1/1	0.96	0.18	16,16,16,16	0
56	MG	1A	3710	1/1	0.96	0.23	44,44,44,44	0
56	MG	2A	3237	1/1	0.96	0.12	48,48,48,48	0
56	MG	2A	3483	1/1	0.96	0.05	52,52,52,52	0
56	MG	2A	3238	1/1	0.96	0.17	43,43,43,43	0
56	MG	2A	3239	1/1	0.96	0.34	54,54,54,54	0
56	MG	1A	3976	1/1	0.96	0.09	42,42,42,42	0
56	MG	1a	1731	1/1	0.96	0.17	55,55,55,55	0
56	MG	2a	3163	1/1	0.96	0.06	46,46,46,46	0
56	MG	1A	3621	1/1	0.96	0.07	40,40,40,40	0
56	MG	2a	3165	1/1	0.96	0.13	68,68,68,68	0
56	MG	2a	3166	1/1	0.96	0.06	81,81,81,81	0
56	MG	1A	3153	1/1	0.96	0.13	39,39,39,39	0
56	MG	1A	4158	1/1	0.96	0.08	49,49,49,49	0
56	MG	1Q	204	1/1	0.96	0.06	33,33,33,33	0
56	MG	2A	3824	1/1	0.96	0.10	80,80,80,80	0
56	MG	1Q	205	1/1	0.96	0.06	41,41,41,41	0
56	MG	2a	3175	1/1	0.96	0.06	58,58,58,58	0
56	MG	2A	3826	1/1	0.96	0.09	81,81,81,81	0
56	MG	2A	3827	1/1	0.96	0.12	64,64,64,64	0
56	MG	2a	3179	1/1	0.96	0.08	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1y	3001	1/1	0.96	0.19	42,42,42,42	0
56	MG	2A	3830	1/1	0.96	0.08	56,56,56,56	0
56	MG	1A	3715	1/1	0.96	0.15	44,44,44,44	0
56	MG	2a	3183	1/1	0.96	0.08	39,39,39,39	0
56	MG	1A	3311	1/1	0.96	0.16	53,53,53,53	0
56	MG	1a	1740	1/1	0.96	0.12	53,53,53,53	0
56	MG	1A	3849	1/1	0.96	0.12	55,55,55,55	0
56	MG	1A	3189	1/1	0.96	0.10	43,43,43,43	0
56	MG	2A	3838	1/1	0.96	0.07	31,31,31,31	0
56	MG	2a	3189	1/1	0.96	0.09	54,54,54,54	0
56	MG	2A	3502	1/1	0.96	0.08	54,54,54,54	0
56	MG	1A	3851	1/1	0.96	0.11	45,45,45,45	0
56	MG	1a	1744	1/1	0.96	0.13	45,45,45,45	0
56	MG	2A	3843	1/1	0.96	0.07	27,27,27,27	0
56	MG	2A	3848	1/1	0.96	0.06	79,79,79,79	0
56	MG	2A	3850	1/1	0.96	0.07	68,68,68,68	0
56	MG	1A	3313	1/1	0.96	0.12	49,49,49,49	0
56	MG	1A	3722	1/1	0.96	0.08	21,21,21,21	0
56	MG	1U	203	1/1	0.96	0.32	46,46,46,46	0
56	MG	1a	1748	1/1	0.96	0.17	53,53,53,53	0
56	MG	2A	3861	1/1	0.96	0.06	67,67,67,67	0
56	MG	1A	3723	1/1	0.96	0.07	37,37,37,37	0
56	MG	1A	4170	1/1	0.96	0.11	13,13,13,13	0
56	MG	1A	3362	1/1	0.96	0.11	54,54,54,54	0
56	MG	2A	3012	1/1	0.96	0.09	35,35,35,35	0
56	MG	1W	3001	1/1	0.96	0.13	45,45,45,45	0
56	MG	2a	3208	1/1	0.96	0.10	70,70,70,70	0
56	MG	1A	3727	1/1	0.96	0.11	26,26,26,26	0
56	MG	1A	3991	1/1	0.96	0.42	53,53,53,53	0
56	MG	2A	3267	1/1	0.96	0.08	56,56,56,56	0
56	MG	2A	3017	1/1	0.96	0.10	44,44,44,44	0
56	MG	2A	3269	1/1	0.96	0.13	50,50,50,50	0
56	MG	1W	3005	1/1	0.96	0.07	29,29,29,29	0
56	MG	2A	3528	1/1	0.96	0.08	57,57,57,57	0
56	MG	2A	3019	1/1	0.96	0.05	40,40,40,40	0
56	MG	2A	3272	1/1	0.96	0.07	49,49,49,49	0
56	MG	2A	3532	1/1	0.96	0.08	49,49,49,49	0
56	MG	2A	3020	1/1	0.96	0.09	50,50,50,50	0
56	MG	2A	3882	1/1	0.96	0.15	51,51,51,51	0
56	MG	2A	3883	1/1	0.96	0.24	44,44,44,44	0
56	MG	2A	3022	1/1	0.96	0.07	37,37,37,37	0
56	MG	1A	3858	1/1	0.96	0.14	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3190	1/1	0.96	0.14	40,40,40,40	0
56	MG	1A	4178	1/1	0.96	0.10	32,32,32,32	0
56	MG	2A	3278	1/1	0.96	0.06	57,57,57,57	0
56	MG	1A	3364	1/1	0.96	0.05	52,52,52,52	0
56	MG	2A	3893	1/1	0.96	0.05	42,42,42,42	0
56	MG	1A	3861	1/1	0.96	0.09	31,31,31,31	0
56	MG	1Y	503	1/1	0.96	0.24	54,54,54,54	0
56	MG	1A	3268	1/1	0.96	0.09	43,43,43,43	0
56	MG	1A	3864	1/1	0.96	0.09	24,24,24,24	0
56	MG	1A	3483	1/1	0.96	0.13	43,43,43,43	0
56	MG	1A	3039	1/1	0.96	0.37	33,33,33,33	0
56	MG	1A	3423	1/1	0.96	0.11	61,61,61,61	0
56	MG	2d	502	1/1	0.96	0.17	58,58,58,58	0
56	MG	2A	3552	1/1	0.96	0.08	34,34,34,34	0
56	MG	1A	4188	1/1	0.96	0.13	37,37,37,37	0
56	MG	1A	3130	1/1	0.96	0.11	57,57,57,57	0
56	MG	1a	1770	1/1	0.96	0.04	48,48,48,48	0
56	MG	1A	3555	1/1	0.96	0.19	72,72,72,72	0
56	MG	10	107	1/1	0.96	0.09	55,55,55,55	0
56	MG	1a	1773	1/1	0.96	0.10	53,53,53,53	0
56	MG	2l	3003	1/1	0.96	0.06	68,68,68,68	0
56	MG	2l	3004	1/1	0.96	0.12	61,61,61,61	0
56	MG	1l	101	1/1	0.96	0.09	44,44,44,44	0
56	MG	2A	3046	1/1	0.96	0.04	37,37,37,37	0
56	MG	2A	3566	1/1	0.96	0.07	51,51,51,51	0
56	MG	2q	203	1/1	0.96	0.05	72,72,72,72	0
56	MG	2A	3916	1/1	0.96	0.18	41,41,41,41	0
56	MG	1A	4006	1/1	0.96	0.14	57,57,57,57	0
56	MG	1A	3736	1/1	0.96	0.16	32,32,32,32	0
56	MG	1A	3109	1/1	0.96	0.06	50,50,50,50	0
56	MG	1A	3488	1/1	0.96	0.12	45,45,45,45	0
56	MG	2A	3574	1/1	0.96	0.05	32,32,32,32	0
56	MG	1A	3640	1/1	0.96	0.07	40,40,40,40	0
56	MG	2A	3053	1/1	0.96	0.14	55,55,55,55	0
56	MG	1A	3195	1/1	0.96	0.33	39,39,39,39	0
56	MG	1A	3882	1/1	0.96	0.12	59,59,59,59	0
56	MG	1A	3559	1/1	0.96	0.22	35,35,35,35	0
56	MG	2B	3007	1/1	0.96	0.09	53,53,53,53	0
56	MG	1A	3744	1/1	0.96	0.06	37,37,37,37	0
56	MG	1A	3320	1/1	0.96	0.12	55,55,55,55	0
56	MG	1A	3110	1/1	0.96	0.18	40,40,40,40	0
56	MG	1A	3562	1/1	0.96	0.09	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	17	103	1/1	0.96	0.07	48,48,48,48	0
56	MG	2A	3587	1/1	0.96	0.10	46,46,46,46	0
56	MG	1A	3750	1/1	0.96	0.08	45,45,45,45	0
56	MG	1A	3160	1/1	0.96	0.26	49,49,49,49	0
56	MG	1A	3893	1/1	0.96	0.10	33,33,33,33	0
56	MG	19	103	1/1	0.96	0.16	41,41,41,41	0
56	MG	2B	3018	1/1	0.96	0.15	42,42,42,42	0
56	MG	2A	3594	1/1	0.96	0.06	45,45,45,45	0
56	MG	2A	3595	1/1	0.96	0.23	56,56,56,56	0
56	MG	2A	3599	1/1	0.96	0.08	55,55,55,55	0
56	MG	2D	301	1/1	0.96	0.11	51,51,51,51	0
56	MG	1A	3897	1/1	0.96	0.33	44,44,44,44	0
56	MG	2A	3601	1/1	0.96	0.09	38,38,38,38	0
56	MG	1A	4211	1/1	0.96	0.18	61,61,61,61	0
56	MG	1A	3493	1/1	0.96	0.21	33,33,33,33	0
56	MG	1A	4216	1/1	0.96	0.07	28,28,28,28	0
57	CPT	2I	201	4/5	0.96	0.10	67,68,96,140	4
56	MG	1A	3755	1/1	0.96	0.08	26,26,26,26	0
56	MG	2A	3072	1/1	0.96	0.08	47,47,47,47	0
56	MG	1A	3594	1/1	0.97	0.20	40,40,40,40	0
56	MG	2A	3159	1/1	0.97	0.11	44,44,44,44	0
56	MG	1A	4042	1/1	0.97	0.05	51,51,51,51	0
56	MG	2A	3539	1/1	0.97	0.15	56,56,56,56	0
56	MG	1A	3176	1/1	0.97	0.06	42,42,42,42	0
56	MG	2A	3541	1/1	0.97	0.05	29,29,29,29	0
56	MG	2A	3542	1/1	0.97	0.05	49,49,49,49	0
56	MG	1A	4045	1/1	0.97	0.07	57,57,57,57	0
56	MG	1A	3656	1/1	0.97	0.20	53,53,53,53	0
56	MG	1A	3596	1/1	0.97	0.14	44,44,44,44	0
56	MG	2A	3547	1/1	0.97	0.05	28,28,28,28	0
56	MG	1x	106	1/1	0.97	0.09	50,50,50,50	0
56	MG	1A	4177	1/1	0.97	0.06	36,36,36,36	0
56	MG	1A	3287	1/1	0.97	0.07	51,51,51,51	0
56	MG	1a	1788	1/1	0.97	0.05	38,38,38,38	0
56	MG	1A	3023	1/1	0.97	0.10	46,46,46,46	0
56	MG	1A	3827	1/1	0.97	0.10	56,56,56,56	0
56	MG	1A	4052	1/1	0.97	0.06	67,67,67,67	0
56	MG	2A	3782	1/1	0.97	0.06	44,44,44,44	0
56	MG	2A	3556	1/1	0.97	0.12	59,59,59,59	0
56	MG	1A	3202	1/1	0.97	0.07	46,46,46,46	0
56	MG	1A	3203	1/1	0.97	0.10	38,38,38,38	0
56	MG	1A	4055	1/1	0.97	0.07	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3081	1/1	0.97	0.15	44,44,44,44	0
56	MG	2A	3561	1/1	0.97	0.06	37,37,37,37	0
56	MG	2A	3793	1/1	0.97	0.10	56,56,56,56	0
56	MG	2A	3562	1/1	0.97	0.04	23,23,23,23	0
56	MG	1A	3261	1/1	0.97	0.07	56,56,56,56	0
56	MG	1A	3462	1/1	0.97	0.07	43,43,43,43	0
56	MG	2A	3565	1/1	0.97	0.07	53,53,53,53	0
56	MG	1A	3421	1/1	0.97	0.08	46,46,46,46	0
56	MG	2A	3799	1/1	0.97	0.08	58,58,58,58	0
56	MG	2A	3567	1/1	0.97	0.05	33,33,33,33	0
56	MG	1A	4061	1/1	0.97	0.05	72,72,72,72	0
56	MG	2A	3802	1/1	0.97	0.06	43,43,43,43	0
56	MG	2A	3570	1/1	0.97	0.06	41,41,41,41	0
56	MG	1A	3740	1/1	0.97	0.09	42,42,42,42	0
56	MG	2A	3805	1/1	0.97	0.11	64,64,64,64	0
56	MG	2A	3806	1/1	0.97	0.15	55,55,55,55	0
56	MG	1H	201	1/1	0.97	0.08	46,46,46,46	0
56	MG	1A	3939	1/1	0.97	0.08	51,51,51,51	0
56	MG	1A	3836	1/1	0.97	0.07	42,42,42,42	0
56	MG	2A	3575	1/1	0.97	0.07	45,45,45,45	0
56	MG	2A	3811	1/1	0.97	0.05	34,34,34,34	0
56	MG	1A	3033	1/1	0.97	0.35	39,39,39,39	0
56	MG	2A	3577	1/1	0.97	0.08	35,35,35,35	0
56	MG	2A	3187	1/1	0.97	0.07	38,38,38,38	0
56	MG	1N	3003	1/1	0.97	0.10	53,53,53,53	0
56	MG	1A	3942	1/1	0.97	0.20	49,49,49,49	0
56	MG	1A	3020	1/1	0.97	0.06	38,38,38,38	0
56	MG	2A	3818	1/1	0.97	0.05	55,55,55,55	0
56	MG	1A	3608	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3141	1/1	0.97	0.09	43,43,43,43	0
56	MG	2A	3821	1/1	0.97	0.06	76,76,76,76	0
56	MG	1A	3159	1/1	0.97	0.11	35,35,35,35	0
56	MG	1A	3747	1/1	0.97	0.09	32,32,32,32	0
56	MG	1A	3748	1/1	0.97	0.09	56,56,56,56	0
56	MG	1O	3004	1/1	0.97	0.09	54,54,54,54	0
56	MG	1A	3298	1/1	0.97	0.18	49,49,49,49	0
56	MG	1A	3612	1/1	0.97	0.14	41,41,41,41	0
56	MG	1A	3074	1/1	0.97	0.11	35,35,35,35	0
56	MG	1A	3752	1/1	0.97	0.06	34,34,34,34	0
56	MG	1A	4079	1/1	0.97	0.07	36,36,36,36	0
56	MG	1Q	202	1/1	0.97	0.09	35,35,35,35	0
56	MG	2A	3598	1/1	0.97	0.07	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3127	1/1	0.97	0.22	46,46,46,46	0
56	MG	1A	3754	1/1	0.97	0.06	21,21,21,21	0
56	MG	2a	3097	1/1	0.97	0.17	48,48,48,48	0
56	MG	1A	4082	1/1	0.97	0.08	90,90,90,90	0
56	MG	2A	3024	1/1	0.97	0.06	42,42,42,42	0
56	MG	2A	3841	1/1	0.97	0.08	66,66,66,66	0
56	MG	1R	201	1/1	0.97	0.11	54,54,54,54	0
56	MG	1A	4218	1/1	0.97	0.09	36,36,36,36	0
56	MG	2A	3846	1/1	0.97	0.05	31,31,31,31	0
56	MG	1A	3211	1/1	0.97	0.14	48,48,48,48	0
56	MG	1A	3617	1/1	0.97	0.12	48,48,48,48	0
56	MG	1a	1686	1/1	0.97	0.15	42,42,42,42	0
56	MG	1A	3618	1/1	0.97	0.21	53,53,53,53	0
56	MG	2a	3108	1/1	0.97	0.10	57,57,57,57	0
56	MG	1A	3114	1/1	0.97	0.08	48,48,48,48	0
56	MG	2A	3856	1/1	0.97	0.07	44,44,44,44	0
56	MG	2A	3857	1/1	0.97	0.05	56,56,56,56	0
56	MG	2A	3612	1/1	0.97	0.09	41,41,41,41	0
56	MG	2A	3860	1/1	0.97	0.05	70,70,70,70	0
56	MG	1A	3013	1/1	0.97	0.32	34,34,34,34	0
56	MG	1A	3165	1/1	0.97	0.08	51,51,51,51	0
56	MG	2A	3397	1/1	0.97	0.04	36,36,36,36	0
56	MG	1A	3766	1/1	0.97	0.11	26,26,26,26	0
56	MG	1a	1835	1/1	0.97	0.04	39,39,39,39	0
56	MG	1A	3087	1/1	0.97	0.24	38,38,38,38	0
56	MG	1A	4091	1/1	0.97	0.06	75,75,75,75	0
56	MG	2A	3869	1/1	0.97	0.06	54,54,54,54	0
56	MG	1V	201	1/1	0.97	0.11	41,41,41,41	0
56	MG	1A	4229	1/1	0.97	0.20	45,45,45,45	0
56	MG	1A	3863	1/1	0.97	0.11	59,59,59,59	0
56	MG	2A	3044	1/1	0.97	0.07	50,50,50,50	0
56	MG	2A	3625	1/1	0.97	0.14	53,53,53,53	0
56	MG	1a	1697	1/1	0.97	0.17	45,45,45,45	0
56	MG	2A	3876	1/1	0.97	0.16	62,62,62,62	0
56	MG	1A	3117	1/1	0.97	0.11	46,46,46,46	0
56	MG	1A	3217	1/1	0.97	0.12	59,59,59,59	0
56	MG	2A	3048	1/1	0.97	0.04	53,53,53,53	0
56	MG	2A	3630	1/1	0.97	0.07	35,35,35,35	0
56	MG	1W	3004	1/1	0.97	0.12	39,39,39,39	0
56	MG	1A	3436	1/1	0.97	0.19	47,47,47,47	0
56	MG	2a	3136	1/1	0.97	0.12	83,83,83,83	0
56	MG	2a	3137	1/1	0.97	0.04	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3138	1/1	0.97	0.06	83,83,83,83	0
56	MG	2A	3884	1/1	0.97	0.19	32,32,32,32	0
56	MG	1A	3773	1/1	0.97	0.13	54,54,54,54	0
56	MG	1A	4235	1/1	0.97	0.28	37,37,37,37	0
56	MG	1X	103	1/1	0.97	0.05	34,34,34,34	0
56	MG	1a	1853	1/1	0.97	0.05	48,48,48,48	0
56	MG	2a	3144	1/1	0.97	0.06	88,88,88,88	0
56	MG	1X	104	1/1	0.97	0.10	48,48,48,48	0
56	MG	2A	3891	1/1	0.97	0.06	40,40,40,40	0
56	MG	2A	3056	1/1	0.97	0.18	46,46,46,46	0
56	MG	1A	3870	1/1	0.97	0.09	35,35,35,35	0
56	MG	1A	3014	1/1	0.97	0.06	32,32,32,32	0
56	MG	2A	3895	1/1	0.97	0.12	41,41,41,41	0
56	MG	1A	3872	1/1	0.97	0.08	55,55,55,55	0
56	MG	1A	4242	1/1	0.97	0.07	53,53,53,53	0
56	MG	1A	3775	1/1	0.97	0.10	30,30,30,30	0
56	MG	1A	3438	1/1	0.97	0.21	41,41,41,41	0
56	MG	1a	1712	1/1	0.97	0.05	37,37,37,37	0
56	MG	2a	3160	1/1	0.97	0.08	77,77,77,77	0
56	MG	1A	4106	1/1	0.97	0.05	28,28,28,28	0
56	MG	1A	3777	1/1	0.97	0.08	33,33,33,33	0
56	MG	1A	3628	1/1	0.97	0.16	49,49,49,49	0
56	MG	1A	3878	1/1	0.97	0.04	63,63,63,63	0
56	MG	1A	4250	1/1	0.97	0.08	38,38,38,38	0
56	MG	2a	3168	1/1	0.97	0.07	68,68,68,68	0
56	MG	1A	3134	1/1	0.97	0.06	45,45,45,45	0
56	MG	1A	4252	1/1	0.97	0.10	24,24,24,24	0
56	MG	1A	3880	1/1	0.97	0.12	32,32,32,32	0
56	MG	2A	3912	1/1	0.97	0.03	41,41,41,41	0
56	MG	1A	3440	1/1	0.97	0.20	38,38,38,38	0
56	MG	1a	1873	1/1	0.97	0.05	90,90,90,90	0
56	MG	1A	3194	1/1	0.97	0.09	49,49,49,49	0
56	MG	2a	3177	1/1	0.97	0.11	69,69,69,69	0
56	MG	1A	3525	1/1	0.97	0.26	47,47,47,47	0
56	MG	2A	3917	1/1	0.97	0.08	52,52,52,52	0
56	MG	1B	201	1/1	0.97	0.06	24,24,24,24	0
56	MG	1A	3884	1/1	0.97	0.10	63,63,63,63	0
56	MG	1A	3404	1/1	0.97	0.10	69,69,69,69	0
56	MG	1a	1727	1/1	0.97	0.06	38,38,38,38	0
56	MG	1A	3046	1/1	0.97	0.12	33,33,33,33	0
56	MG	2A	3444	1/1	0.97	0.17	32,32,32,32	0
56	MG	1a	1881	1/1	0.97	0.06	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3083	1/1	0.97	0.13	44,44,44,44	0
56	MG	1A	3696	1/1	0.97	0.09	49,49,49,49	0
56	MG	1A	3786	1/1	0.97	0.09	48,48,48,48	0
56	MG	2A	3669	1/1	0.97	0.06	37,37,37,37	0
56	MG	1A	3698	1/1	0.97	0.07	48,48,48,48	0
56	MG	1A	3891	1/1	0.97	0.04	43,43,43,43	0
56	MG	1A	3528	1/1	0.97	0.19	35,35,35,35	0
56	MG	2A	3673	1/1	0.97	0.11	33,33,33,33	0
56	MG	1a	1890	1/1	0.97	0.05	37,37,37,37	0
56	MG	17	102	1/1	0.97	0.12	62,62,62,62	0
56	MG	2a	3198	1/1	0.97	0.06	68,68,68,68	0
56	MG	1a	1735	1/1	0.97	0.05	47,47,47,47	0
56	MG	1a	1894	1/1	0.97	0.06	71,71,71,71	0
56	MG	2A	3678	1/1	0.97	0.12	29,29,29,29	0
56	MG	1A	3789	1/1	0.97	0.12	39,39,39,39	0
56	MG	2A	3094	1/1	0.97	0.06	45,45,45,45	0
56	MG	1B	212	1/1	0.97	0.06	42,42,42,42	0
56	MG	1A	3529	1/1	0.97	0.20	45,45,45,45	0
56	MG	1B	214	1/1	0.97	0.10	46,46,46,46	0
56	MG	1a	1902	1/1	0.97	0.06	77,77,77,77	0
56	MG	2A	3099	1/1	0.97	0.06	44,44,44,44	0
56	MG	1a	1905	1/1	0.97	0.05	56,56,56,56	0
56	MG	2E	302	1/1	0.97	0.11	48,48,48,48	0
56	MG	19	101	1/1	0.97	0.13	49,49,49,49	0
56	MG	1A	3638	1/1	0.97	0.05	54,54,54,54	0
56	MG	2E	305	1/1	0.97	0.08	53,53,53,53	0
56	MG	1A	3578	1/1	0.97	0.11	61,61,61,61	0
56	MG	2A	3690	1/1	0.97	0.04	43,43,43,43	0
56	MG	1A	3704	1/1	0.97	0.06	38,38,38,38	0
56	MG	2F	301	1/1	0.97	0.06	44,44,44,44	0
56	MG	1a	1913	1/1	0.97	0.05	80,80,80,80	0
56	MG	1a	1914	1/1	0.97	0.04	84,84,84,84	0
56	MG	1A	3136	1/1	0.97	0.08	48,48,48,48	0
56	MG	1A	3796	1/1	0.97	0.06	32,32,32,32	0
56	MG	1A	3374	1/1	0.97	0.10	53,53,53,53	0
56	MG	1A	3581	1/1	0.97	0.04	39,39,39,39	0
56	MG	1A	3173	1/1	0.97	0.14	50,50,50,50	0
56	MG	1A	3711	1/1	0.97	0.06	51,51,51,51	0
56	MG	2Q	3002	1/1	0.97	0.14	47,47,47,47	0
56	MG	1A	3534	1/1	0.97	0.14	19,19,19,19	0
56	MG	1A	3152	1/1	0.97	0.07	51,51,51,51	0
56	MG	2A	3702	1/1	0.97	0.09	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3714	1/1	0.97	0.05	32,32,32,32	0
56	MG	1A	3536	1/1	0.97	0.28	56,56,56,56	0
56	MG	2a	3232	1/1	0.97	0.08	43,43,43,43	0
56	MG	1A	4148	1/1	0.97	0.06	43,43,43,43	0
56	MG	1a	1927	1/1	0.97	0.06	71,71,71,71	0
56	MG	1A	3537	1/1	0.97	0.15	33,33,33,33	0
56	MG	1A	3377	1/1	0.97	0.27	50,50,50,50	0
56	MG	1A	3718	1/1	0.97	0.09	35,35,35,35	0
56	MG	1b	3001	1/1	0.97	0.04	62,62,62,62	0
56	MG	2A	3486	1/1	0.97	0.15	46,46,46,46	0
56	MG	2A	3487	1/1	0.97	0.09	45,45,45,45	0
56	MG	2A	3124	1/1	0.97	0.11	47,47,47,47	0
56	MG	2A	3125	1/1	0.97	0.14	50,50,50,50	0
56	MG	2X	102	1/1	0.97	0.05	66,66,66,66	0
56	MG	2A	3305	1/1	0.97	0.31	55,55,55,55	0
56	MG	2A	3306	1/1	0.97	0.08	44,44,44,44	0
56	MG	2A	3307	1/1	0.97	0.06	48,48,48,48	0
56	MG	2n	101	1/1	0.97	0.07	70,70,70,70	0
56	MG	1A	3719	1/1	0.97	0.07	53,53,53,53	0
56	MG	1a	1619	1/1	0.97	0.10	55,55,55,55	0
56	MG	1A	3810	1/1	0.97	0.16	43,43,43,43	0
56	MG	1d	502	1/1	0.97	0.31	55,55,55,55	0
56	MG	1A	4019	1/1	0.97	0.08	47,47,47,47	0
56	MG	1B	236	1/1	0.97	0.04	33,33,33,33	0
56	MG	1f	3001	1/1	0.97	0.06	44,44,44,44	0
56	MG	1A	4020	1/1	0.97	0.05	65,65,65,65	0
56	MG	2A	3316	1/1	0.97	0.28	52,52,52,52	0
56	MG	2A	3733	1/1	0.97	0.05	38,38,38,38	0
56	MG	2A	3134	1/1	0.97	0.06	39,39,39,39	0
56	MG	1l	201	1/1	0.97	0.27	49,49,49,49	0
56	MG	1A	3450	1/1	0.97	0.10	51,51,51,51	0
56	MG	2A	3507	1/1	0.97	0.08	49,49,49,49	0
56	MG	2A	3508	1/1	0.97	0.04	35,35,35,35	0
56	MG	1A	3284	1/1	0.97	0.16	40,40,40,40	0
56	MG	2A	3139	1/1	0.97	0.14	45,45,45,45	0
56	MG	2A	3741	1/1	0.97	0.07	57,57,57,57	0
56	MG	2A	3140	1/1	0.97	0.07	45,45,45,45	0
56	MG	2A	3323	1/1	0.97	0.11	48,48,48,48	0
56	MG	2x	101	1/1	0.97	0.16	48,48,48,48	0
56	MG	2A	3141	1/1	0.97	0.14	35,35,35,35	0
56	MG	1a	1766	1/1	0.97	0.31	62,62,62,62	0
56	MG	2A	3517	1/1	0.97	0.03	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4028	1/1	0.97	0.06	46,46,46,46	0
56	MG	1A	4029	1/1	0.97	0.09	59,59,59,59	0
56	MG	1A	4161	1/1	0.97	0.04	23,23,23,23	0
56	MG	2A	3750	1/1	0.97	0.23	44,44,44,44	0
56	MG	1A	4032	1/1	0.97	0.07	57,57,57,57	0
56	MG	1A	3175	1/1	0.97	0.22	43,43,43,43	0
56	MG	2A	3148	1/1	0.97	0.12	45,45,45,45	0
56	MG	1A	4164	1/1	0.97	0.13	55,55,55,55	0
56	MG	1A	4165	1/1	0.97	0.06	45,45,45,45	0
57	CPT	1A	4209	4/5	0.97	0.14	75,78,104,121	4
56	MG	1A	3724	1/1	0.97	0.07	31,31,31,31	0
56	MG	1a	1775	1/1	0.97	0.17	60,60,60,60	0
56	MG	1w	105	1/1	0.97	0.10	58,58,58,58	0
56	MG	1A	3542	1/1	0.97	0.06	50,50,50,50	0
56	MG	1E	305	1/1	0.97	0.16	57,57,57,57	0
56	MG	1A	3453	1/1	0.97	0.16	42,42,42,42	0
56	MG	1A	3924	1/1	0.97	0.08	45,45,45,45	0
59	ZN	14	501	1/1	0.97	0.05	104,104,104,104	0
59	ZN	2Y	501	1/1	0.97	0.05	101,101,101,101	0
59	ZN	24	501	1/1	0.97	0.09	114,114,114,114	0
59	ZN	29	501	1/1	0.97	0.06	79,79,79,79	0
59	ZN	2n	102	1/1	0.97	0.07	85,85,85,85	0
56	MG	2A	3851	1/1	0.98	0.04	51,51,51,51	0
56	MG	2A	3852	1/1	0.98	0.04	72,72,72,72	0
56	MG	2A	3709	1/1	0.98	0.07	59,59,59,59	0
56	MG	1A	4049	1/1	0.98	0.04	63,63,63,63	0
56	MG	1A	3972	1/1	0.98	0.07	34,34,34,34	0
56	MG	1A	4130	1/1	0.98	0.06	49,49,49,49	0
56	MG	2a	3151	1/1	0.98	0.06	74,74,74,74	0
56	MG	1A	3186	1/1	0.98	0.07	50,50,50,50	0
56	MG	2a	3153	1/1	0.98	0.13	43,43,43,43	0
56	MG	1A	3003	1/1	0.98	0.08	30,30,30,30	0
56	MG	2A	3715	1/1	0.98	0.06	57,57,57,57	0
56	MG	1A	3697	1/1	0.98	0.12	34,34,34,34	0
56	MG	1A	3036	1/1	0.98	0.13	43,43,43,43	0
56	MG	2A	3009	1/1	0.98	0.04	33,33,33,33	0
56	MG	2A	3588	1/1	0.98	0.10	36,36,36,36	0
56	MG	1A	3037	1/1	0.98	0.12	21,21,21,21	0
56	MG	1A	3700	1/1	0.98	0.05	55,55,55,55	0
56	MG	1E	311	1/1	0.98	0.04	34,34,34,34	0
56	MG	2A	3724	1/1	0.98	0.04	48,48,48,48	0
56	MG	1A	3057	1/1	0.98	0.09	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3167	1/1	0.98	0.04	75,75,75,75	0
56	MG	17	101	1/1	0.98	0.08	38,38,38,38	0
56	MG	1A	3086	1/1	0.98	0.17	56,56,56,56	0
56	MG	1A	3070	1/1	0.98	0.17	25,25,25,25	0
56	MG	2A	3242	1/1	0.98	0.07	46,46,46,46	0
56	MG	1a	1885	1/1	0.98	0.07	78,78,78,78	0
56	MG	17	104	1/1	0.98	0.07	41,41,41,41	0
56	MG	2A	3877	1/1	0.98	0.04	71,71,71,71	0
56	MG	1a	1888	1/1	0.98	0.05	58,58,58,58	0
56	MG	2A	3021	1/1	0.98	0.08	34,34,34,34	0
56	MG	2a	3028	1/1	0.98	0.07	47,47,47,47	0
56	MG	1A	4060	1/1	0.98	0.05	52,52,52,52	0
56	MG	2A	3605	1/1	0.98	0.09	44,44,44,44	0
56	MG	1A	3168	1/1	0.98	0.07	36,36,36,36	0
56	MG	1A	3071	1/1	0.98	0.14	38,38,38,38	0
56	MG	1A	3125	1/1	0.98	0.38	47,47,47,47	0
56	MG	1A	3806	1/1	0.98	0.07	33,33,33,33	0
56	MG	2A	3138	1/1	0.98	0.23	40,40,40,40	0
56	MG	1A	3522	1/1	0.98	0.27	51,51,51,51	0
56	MG	1A	3989	1/1	0.98	0.05	49,49,49,49	0
56	MG	2A	3889	1/1	0.98	0.04	25,25,25,25	0
56	MG	1A	4236	1/1	0.98	0.07	37,37,37,37	0
56	MG	2a	3190	1/1	0.98	0.17	46,46,46,46	0
56	MG	1A	4237	1/1	0.98	0.33	48,48,48,48	0
56	MG	2a	3041	1/1	0.98	0.29	43,43,43,43	0
56	MG	1A	4067	1/1	0.98	0.06	53,53,53,53	0
56	MG	1a	1904	1/1	0.98	0.04	56,56,56,56	0
56	MG	1A	3866	1/1	0.98	0.04	33,33,33,33	0
56	MG	1A	4152	1/1	0.98	0.04	24,24,24,24	0
56	MG	2A	3036	1/1	0.98	0.05	50,50,50,50	0
56	MG	2A	3037	1/1	0.98	0.07	33,33,33,33	0
56	MG	1A	4241	1/1	0.98	0.08	23,23,23,23	0
56	MG	1A	3126	1/1	0.98	0.12	40,40,40,40	0
56	MG	1a	1911	1/1	0.98	0.04	57,57,57,57	0
56	MG	1A	3868	1/1	0.98	0.04	38,38,38,38	0
56	MG	1A	3667	1/1	0.98	0.15	44,44,44,44	0
56	MG	2A	3905	1/1	0.98	0.07	33,33,33,33	0
56	MG	1A	4245	1/1	0.98	0.08	46,46,46,46	0
56	MG	1a	1613	1/1	0.98	0.06	18,18,18,18	0
56	MG	1A	3072	1/1	0.98	0.11	15,15,15,15	0
56	MG	1A	3630	1/1	0.98	0.22	39,39,39,39	0
56	MG	1A	3593	1/1	0.98	0.10	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3503	1/1	0.98	0.06	45,45,45,45	0
56	MG	1A	3873	1/1	0.98	0.06	57,57,57,57	0
56	MG	1A	3047	1/1	0.98	0.05	30,30,30,30	0
56	MG	1A	3461	1/1	0.98	0.17	45,45,45,45	0
56	MG	1A	3038	1/1	0.98	0.18	46,46,46,46	0
56	MG	1A	3674	1/1	0.98	0.04	33,33,33,33	0
56	MG	2A	3164	1/1	0.98	0.19	43,43,43,43	0
56	MG	1A	3769	1/1	0.98	0.06	27,27,27,27	0
56	MG	1A	3597	1/1	0.98	0.30	49,49,49,49	0
56	MG	1A	3771	1/1	0.98	0.03	25,25,25,25	0
56	MG	2A	3772	1/1	0.98	0.15	59,59,59,59	0
56	MG	1A	3075	1/1	0.98	0.03	32,32,32,32	0
56	MG	1A	3721	1/1	0.98	0.05	37,37,37,37	0
56	MG	2A	3516	1/1	0.98	0.04	57,57,57,57	0
56	MG	1A	3131	1/1	0.98	0.10	45,45,45,45	0
56	MG	1A	3093	1/1	0.98	0.15	26,26,26,26	0
56	MG	1A	3885	1/1	0.98	0.09	36,36,36,36	0
56	MG	1A	3531	1/1	0.98	0.16	34,34,34,34	0
56	MG	2A	3650	1/1	0.98	0.04	50,50,50,50	0
56	MG	1A	3154	1/1	0.98	0.12	49,49,49,49	0
56	MG	2A	3523	1/1	0.98	0.04	31,31,31,31	0
56	MG	1A	3726	1/1	0.98	0.12	30,30,30,30	0
56	MG	1A	4016	1/1	0.98	0.06	58,58,58,58	0
56	MG	1a	1634	1/1	0.98	0.08	14,14,14,14	0
56	MG	1A	3008	1/1	0.98	0.11	26,26,26,26	0
56	MG	2A	3789	1/1	0.98	0.08	50,50,50,50	0
56	MG	1R	203	1/1	0.98	0.05	36,36,36,36	0
56	MG	2A	3791	1/1	0.98	0.06	46,46,46,46	0
56	MG	1A	3832	1/1	0.98	0.04	48,48,48,48	0
56	MG	2f	3001	1/1	0.98	0.13	41,41,41,41	0
56	MG	1A	3229	1/1	0.98	0.05	47,47,47,47	0
56	MG	1A	3230	1/1	0.98	0.05	39,39,39,39	0
56	MG	1A	3015	1/1	0.98	0.05	30,30,30,30	0
56	MG	1a	1829	1/1	0.98	0.05	27,27,27,27	0
56	MG	1A	4022	1/1	0.98	0.07	60,60,60,60	0
56	MG	1a	1831	1/1	0.98	0.06	29,29,29,29	0
56	MG	1A	4023	1/1	0.98	0.05	19,19,19,19	0
56	MG	1A	4184	1/1	0.98	0.10	33,33,33,33	0
56	MG	1A	4101	1/1	0.98	0.05	61,61,61,61	0
56	MG	1U	205	1/1	0.98	0.05	42,42,42,42	0
56	MG	1A	4102	1/1	0.98	0.05	32,32,32,32	0
56	MG	1A	4103	1/1	0.98	0.07	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4189	1/1	0.98	0.08	33,33,33,33	0
56	MG	2A	3082	1/1	0.98	0.11	49,49,49,49	0
56	MG	1A	3895	1/1	0.98	0.04	48,48,48,48	0
56	MG	2A	3546	1/1	0.98	0.04	34,34,34,34	0
56	MG	1A	4027	1/1	0.98	0.03	41,41,41,41	0
56	MG	1A	3028	1/1	0.98	0.28	28,28,28,28	0
56	MG	1w	109	1/1	0.98	0.04	61,61,61,61	0
56	MG	1A	4108	1/1	0.98	0.05	44,44,44,44	0
56	MG	1A	3042	1/1	0.98	0.04	33,33,33,33	0
56	MG	1A	3262	1/1	0.98	0.11	58,58,58,58	0
56	MG	1X	101	1/1	0.98	0.11	38,38,38,38	0
56	MG	2A	3554	1/1	0.98	0.09	33,33,33,33	0
56	MG	2A	3432	1/1	0.98	0.11	38,38,38,38	0
56	MG	1A	3839	1/1	0.98	0.04	50,50,50,50	0
56	MG	1a	1849	1/1	0.98	0.06	54,54,54,54	0
56	MG	1A	3410	1/1	0.98	0.13	40,40,40,40	0
56	MG	1A	4036	1/1	0.98	0.06	71,71,71,71	0
56	MG	1A	3902	1/1	0.98	0.04	59,59,59,59	0
56	MG	1A	3350	1/1	0.98	0.42	39,39,39,39	0
56	MG	1A	3080	1/1	0.98	0.13	44,44,44,44	0
56	MG	2U	206	1/1	0.98	0.08	49,49,49,49	0
56	MG	1A	3905	1/1	0.98	0.05	27,27,27,27	0
56	MG	1D	301	1/1	0.98	0.10	46,46,46,46	0
56	MG	2A	3828	1/1	0.98	0.05	64,64,64,64	0
56	MG	1A	3843	1/1	0.98	0.05	50,50,50,50	0
56	MG	1A	4120	1/1	0.98	0.06	76,76,76,76	0
56	MG	1a	1860	1/1	0.98	0.05	52,52,52,52	0
56	MG	2A	3568	1/1	0.98	0.05	31,31,31,31	0
56	MG	2A	3833	1/1	0.98	0.12	34,34,34,34	0
56	MG	2A	3834	1/1	0.98	0.07	65,65,65,65	0
56	MG	1A	3613	1/1	0.98	0.11	55,55,55,55	0
56	MG	1A	3235	1/1	0.98	0.14	52,52,52,52	0
56	MG	1a	1863	1/1	0.98	0.04	76,76,76,76	0
56	MG	1A	3294	1/1	0.98	0.23	32,32,32,32	0
57	CPT	2A	3903	4/5	0.98	0.08	70,73,87,100	4
56	MG	1a	1669	1/1	0.98	0.17	47,47,47,47	0
56	MG	1D	308	1/1	0.98	0.15	56,56,56,56	0
57	CPT	2a	3235	4/5	0.98	0.09	85,87,90,125	0
56	MG	1A	3792	1/1	0.98	0.07	30,30,30,30	0
56	MG	1A	4212	1/1	0.98	0.06	32,32,32,32	0
56	MG	2A	3111	1/1	0.98	0.14	34,34,34,34	0
56	MG	2A	3845	1/1	0.98	0.10	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4213	1/1	0.98	0.05	52,52,52,52	0
56	MG	1A	3009	1/1	0.98	0.06	33,33,33,33	0
56	MG	2A	3708	1/1	0.98	0.06	55,55,55,55	0
60	SF4	2d	501	8/8	0.98	0.04	58,66,75,87	0
56	MG	2A	3513	1/1	0.99	0.06	28,28,28,28	0
56	MG	1A	3064	1/1	0.99	0.14	37,37,37,37	0
56	MG	2P	202	1/1	0.99	0.04	41,41,41,41	0
56	MG	1a	1886	1/1	0.99	0.07	54,54,54,54	0
56	MG	1a	1837	1/1	0.99	0.04	32,32,32,32	0
56	MG	2A	3728	1/1	0.99	0.04	32,32,32,32	0
56	MG	1a	1838	1/1	0.99	0.04	39,39,39,39	0
56	MG	2A	3518	1/1	0.99	0.06	32,32,32,32	0
56	MG	1A	4097	1/1	0.99	0.03	23,23,23,23	0
56	MG	1A	4131	1/1	0.99	0.03	24,24,24,24	0
56	MG	1A	4132	1/1	0.99	0.04	54,54,54,54	0
56	MG	2A	3027	1/1	0.99	0.03	27,27,27,27	0
56	MG	2A	3590	1/1	0.99	0.04	30,30,30,30	0
56	MG	1A	3758	1/1	0.99	0.04	36,36,36,36	0
56	MG	1a	1893	1/1	0.99	0.02	36,36,36,36	0
56	MG	1A	3852	1/1	0.99	0.11	48,48,48,48	0
56	MG	1a	1895	1/1	0.99	0.03	58,58,58,58	0
56	MG	1a	1896	1/1	0.99	0.05	77,77,77,77	0
56	MG	2A	3597	1/1	0.99	0.02	28,28,28,28	0
56	MG	1A	3249	1/1	0.99	0.07	44,44,44,44	0
56	MG	2a	3147	1/1	0.99	0.03	78,78,78,78	0
56	MG	1A	3760	1/1	0.99	0.06	29,29,29,29	0
56	MG	1A	4173	1/1	0.99	0.05	41,41,41,41	0
56	MG	2A	3531	1/1	0.99	0.05	21,21,21,21	0
56	MG	1A	4214	1/1	0.99	0.10	47,47,47,47	0
56	MG	1a	1901	1/1	0.99	0.07	70,70,70,70	0
56	MG	2A	3822	1/1	0.99	0.03	78,78,78,78	0
56	MG	1A	3818	1/1	0.99	0.04	51,51,51,51	0
56	MG	1a	1903	1/1	0.99	0.06	49,49,49,49	0
56	MG	1D	306	1/1	0.99	0.06	35,35,35,35	0
56	MG	10	101	1/1	0.99	0.04	51,51,51,51	0
56	MG	1A	3970	1/1	0.99	0.03	43,43,43,43	0
56	MG	1a	1852	1/1	0.99	0.09	66,66,66,66	0
56	MG	2a	3161	1/1	0.99	0.05	70,70,70,70	0
56	MG	1a	1908	1/1	0.99	0.12	56,56,56,56	0
56	MG	2A	3611	1/1	0.99	0.05	60,60,60,60	0
56	MG	1A	3994	1/1	0.99	0.07	44,44,44,44	0
56	MG	1a	1910	1/1	0.99	0.04	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3709	1/1	0.99	0.04	33,33,33,33	0
56	MG	1B	203	1/1	0.99	0.13	45,45,45,45	0
56	MG	1A	4077	1/1	0.99	0.07	26,26,26,26	0
56	MG	1A	4107	1/1	0.99	0.03	36,36,36,36	0
56	MG	1E	301	1/1	0.99	0.09	14,14,14,14	0
56	MG	2A	3619	1/1	0.99	0.05	44,44,44,44	0
56	MG	2a	3172	1/1	0.99	0.04	62,62,62,62	0
56	MG	1A	3951	1/1	0.99	0.10	43,43,43,43	0
56	MG	1A	3762	1/1	0.99	0.06	29,29,29,29	0
56	MG	1A	4110	1/1	0.99	0.04	36,36,36,36	0
56	MG	1A	3894	1/1	0.99	0.08	34,34,34,34	0
56	MG	1A	3742	1/1	0.99	0.06	43,43,43,43	0
56	MG	2A	3844	1/1	0.99	0.11	60,60,60,60	0
56	MG	2A	3299	1/1	0.99	0.06	58,58,58,58	0
56	MG	1A	4000	1/1	0.99	0.07	29,29,29,29	0
56	MG	1A	4025	1/1	0.99	0.03	53,53,53,53	0
56	MG	2A	3849	1/1	0.99	0.04	60,60,60,60	0
56	MG	1A	4228	1/1	0.99	0.07	42,42,42,42	0
56	MG	2A	3180	1/1	0.99	0.03	22,22,22,22	0
56	MG	2A	3428	1/1	0.99	0.05	46,46,46,46	0
56	MG	1A	4187	1/1	0.99	0.05	28,28,28,28	0
56	MG	1a	1925	1/1	0.99	0.07	52,52,52,52	0
56	MG	1A	4026	1/1	0.99	0.03	30,30,30,30	0
56	MG	1A	3764	1/1	0.99	0.05	40,40,40,40	0
56	MG	1A	3765	1/1	0.99	0.07	28,28,28,28	0
56	MG	1A	3161	1/1	0.99	0.03	46,46,46,46	0
56	MG	2A	3859	1/1	0.99	0.12	41,41,41,41	0
56	MG	1A	4031	1/1	0.99	0.03	34,34,34,34	0
56	MG	1U	202	1/1	0.99	0.16	35,35,35,35	0
56	MG	1A	3178	1/1	0.99	0.08	18,18,18,18	0
56	MG	2D	302	1/1	0.99	0.05	27,27,27,27	0
56	MG	2A	3501	1/1	0.99	0.05	72,72,72,72	0
56	MG	1A	3844	1/1	0.99	0.05	40,40,40,40	0
56	MG	2A	3786	1/1	0.99	0.07	42,42,42,42	0
56	MG	2a	3114	1/1	0.99	0.06	69,69,69,69	0
56	MG	2A	3787	1/1	0.99	0.03	51,51,51,51	0
56	MG	2A	3867	1/1	0.99	0.03	33,33,33,33	0
56	MG	1A	4122	1/1	0.99	0.03	48,48,48,48	0
56	MG	1A	3280	1/1	0.99	0.09	29,29,29,29	0
56	MG	1A	3441	1/1	0.99	0.12	48,48,48,48	0
56	MG	1B	225	1/1	0.99	0.04	42,42,42,42	0
59	ZN	1Y	501	1/1	0.99	0.03	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3706	1/1	0.99	0.05	23,23,23,23	0
59	ZN	15	103	1/1	0.99	0.03	46,46,46,46	0
59	ZN	1n	501	1/1	0.99	0.06	59,59,59,59	0
56	MG	1A	3813	1/1	0.99	0.07	34,34,34,34	0
56	MG	2A	3016	1/1	0.99	0.04	52,52,52,52	0
59	ZN	25	102	1/1	0.99	0.04	61,61,61,61	0
59	ZN	26	501	1/1	0.99	0.03	59,59,59,59	0
56	MG	1A	4200	1/1	0.99	0.04	55,55,55,55	0
56	MG	1A	4127	1/1	0.99	0.03	38,38,38,38	0
60	SF4	1d	501	8/8	0.99	0.06	55,59,67,69	0
56	MG	1A	4039	1/1	0.99	0.07	51,51,51,51	0
56	MG	2a	3154	1/1	1.00	0.03	48,48,48,48	0
56	MG	1A	4033	1/1	1.00	0.03	49,49,49,49	0
56	MG	1A	3973	1/1	1.00	0.08	41,41,41,41	0
56	MG	1A	4134	1/1	1.00	0.03	36,36,36,36	0
56	MG	1A	4044	1/1	1.00	0.10	50,50,50,50	0
56	MG	1A	3845	1/1	1.00	0.09	25,25,25,25	0
59	ZN	16	101	1/1	1.00	0.04	47,47,47,47	0
59	ZN	19	102	1/1	1.00	0.03	27,27,27,27	0
56	MG	1A	3823	1/1	1.00	0.09	28,28,28,28	0
56	MG	2A	3716	1/1	1.00	0.02	29,29,29,29	0
56	MG	2A	3847	1/1	1.00	0.03	30,30,30,30	0
56	MG	2A	3596	1/1	1.00	0.04	29,29,29,29	0
56	MG	1A	3822	1/1	1.00	0.08	34,34,34,34	0
56	MG	1A	4001	1/1	1.00	0.04	32,32,32,32	0
56	MG	1A	4030	1/1	1.00	0.02	29,29,29,29	0
56	MG	1A	3977	1/1	1.00	0.04	45,45,45,45	0
56	MG	1A	3896	1/1	1.00	0.06	38,38,38,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.