



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 6, 2026 – 09:35 AM EDT

PDB ID : 6CAE / pdb_00006cae
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with NOSO-95179 antibiotic and bound to mRNA and A-, P- and E-site tRNAs at 2.6Å resolution
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Deposited on : 2018-01-30
Resolution : 2.60 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	: 9.0.015 (Gargrove)
Density-Fitness	: 1.0.12

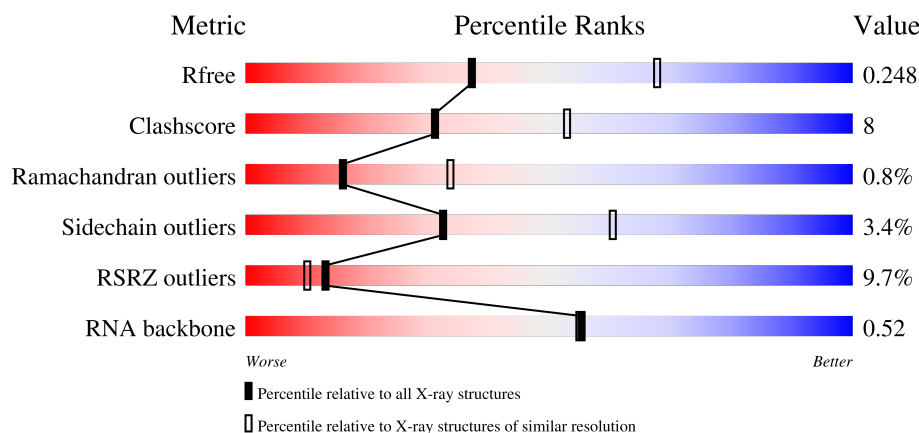
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)
RNA backbone	3983	1014 (2.84-2.36)

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	

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Ideal geometry (proteins) : Engh & Huber (2001)
 Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
 Validation Pipeline (wwPDB-VP) : 2.50

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Mol	Chain	Length	Quality of chain
1	2A	2915	
2	1B	121	
2	2B	121	
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	

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Mol	Chain	Length	Quality of chain
14	1S	112	% 79% 16% . .
14	2S	112	14% 80% 16% . .
15	1T	146	7% 68% 21% . 10%
15	2T	146	% 63% 26% . 10%
16	1U	118	% 79% 18% . .
16	2U	118	2% 81% 16% . .
17	1V	101	% 81% 16% .
17	2V	101	8% 79% 18% . .
18	1W	113	3% 78% 19% . .
18	2W	113	3% 84% 13% . .
19	1X	96	2% 76% 20% . .
19	2X	96	5% 77% 22% .
20	1Y	110	% 75% 19% . .
20	2Y	110	20% 75% 20% . .
21	1Z	206	10% 52% 21% . 25%
21	2Z	206	24% 57% 19% . 22%
22	10	85	6% 79% 18% . .
22	20	85	18% 82% 14% . .
23	11	98	2% 84% 14% . .
23	21	98	4% 80% 17% . .
24	12	72	6% 88% 10% .
24	22	72	6% 86% 11% .
25	13	60	3% 80% 17% . .
25	23	60	5% 75% 23% .
26	14	71	14% 63% 27% 7% .

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Mol	Chain	Length	Quality of chain
26	24	71	
27	15	60	
27	25	60	
28	16	54	
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	

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Mol	Chain	Length	Quality of chain
39	1h	138	
39	2h	138	
40	1i	128	
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	

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Mol	Chain	Length	Quality of chain
51	2t	106	
52	1u	27	
52	2u	27	
53	1v	27	
53	2v	27	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	
56	A	9	
56	B	9	
56	C	9	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	1A	3754	-	-	-	X
57	MG	2X	3002	-	-	-	X
57	MG	2a	1687	-	-	-	X
57	MG	C	8001	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 301143 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	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	2H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	146	Total	C	N	O	S	0	0	0
			1097	701	191	204	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1064	681	186	196	1			

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

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

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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2O	122	Total	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
			276	124	48	91	13			
53	2v	13	Total	C	N	O	P	0	0	0
			276	124	48	91	13			

- Molecule 54 is a RNA chain called A-site and E-site tRNAs.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	1w	73	Total	C	N	O	P	S	0	0
			1568	700	282	512	73	1		
54	1y	74	Total	C	N	O	P	S	0	0
			1591	710	287	519	74	1		
54	2w	73	Total	C	N	O	P	S	0	0
			1568	700	282	512	73	1		
54	2y	73	Total	C	N	O	P	S	0	0
			1568	700	282	512	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
			1625	725	294	529	76	1		
55	2x	76	Total	C	N	O	P	S	0	0
			1625	725	294	529	76	1		

- Molecule 56 is a protein called NOSO-95179 antibiotic.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
56	A	9	Total	C	N	O	0	0	0
			72	43	18	11			
56	B	7	Total	C	N	O	0	0	0
			55	33	14	8			
56	C	9	Total	C	N	O	0	0	0
			72	43	18	11			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1A	1149	Total	Mg	0	0
			1149	1149		
57	1B	36	Total	Mg	0	0
			36	36		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1D	9	Total 9	Mg 9	0	0
57	1E	10	Total 10	Mg 10	0	0
57	1F	8	Total 8	Mg 8	0	0
57	1G	5	Total 5	Mg 5	0	0
57	1I	1	Total 1	Mg 1	0	0
57	1N	7	Total 7	Mg 7	0	0
57	1O	4	Total 4	Mg 4	0	0
57	1P	4	Total 4	Mg 4	0	0
57	1Q	5	Total 5	Mg 5	0	0
57	1R	3	Total 3	Mg 3	0	0
57	1S	3	Total 3	Mg 3	0	0
57	1T	2	Total 2	Mg 2	0	0
57	1U	6	Total 6	Mg 6	0	0
57	1V	2	Total 2	Mg 2	0	0
57	1W	5	Total 5	Mg 5	0	0
57	1X	6	Total 6	Mg 6	0	0
57	1Y	3	Total 3	Mg 3	0	0
57	1Z	4	Total 4	Mg 4	0	0
57	10	6	Total 6	Mg 6	0	0
57	11	2	Total 2	Mg 2	0	0
57	12	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	13	2	Total 2	Mg 2	0	0
57	15	2	Total 2	Mg 2	0	0
57	16	1	Total 1	Mg 1	0	0
57	17	2	Total 2	Mg 2	0	0
57	18	4	Total 4	Mg 4	0	0
57	19	1	Total 1	Mg 1	0	0
57	1a	314	Total 314	Mg 314	0	0
57	1b	2	Total 2	Mg 2	0	0
57	1d	2	Total 2	Mg 2	0	0
57	1e	2	Total 2	Mg 2	0	0
57	1f	1	Total 1	Mg 1	0	0
57	1l	2	Total 2	Mg 2	0	0
57	1m	1	Total 1	Mg 1	0	0
57	1n	1	Total 1	Mg 1	0	0
57	1r	1	Total 1	Mg 1	0	0
57	1s	1	Total 1	Mg 1	0	0
57	1t	1	Total 1	Mg 1	0	0
57	1v	1	Total 1	Mg 1	0	0
57	1w	8	Total 8	Mg 8	0	0
57	1x	14	Total 14	Mg 14	0	0
57	1y	6	Total 6	Mg 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	2A	861	Total 861	Mg 861	0	0
57	2B	21	Total 21	Mg 21	0	0
57	2D	4	Total 4	Mg 4	0	0
57	2E	10	Total 10	Mg 10	0	0
57	2F	3	Total 3	Mg 3	0	0
57	2G	1	Total 1	Mg 1	0	0
57	2N	1	Total 1	Mg 1	0	0
57	2O	2	Total 2	Mg 2	0	0
57	2Q	3	Total 3	Mg 3	0	0
57	2R	2	Total 2	Mg 2	0	0
57	2T	4	Total 4	Mg 4	0	0
57	2U	4	Total 4	Mg 4	0	0
57	2V	2	Total 2	Mg 2	0	0
57	2W	2	Total 2	Mg 2	0	0
57	2X	3	Total 3	Mg 3	0	0
57	2Z	1	Total 1	Mg 1	0	0
57	20	2	Total 2	Mg 2	0	0
57	21	2	Total 2	Mg 2	0	0
57	23	2	Total 2	Mg 2	0	0
57	25	3	Total 3	Mg 3	0	0
57	26	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	28	3	Total Mg 3 3	0	0
57	29	1	Total Mg 1 1	0	0
57	2a	202	Total Mg 202 202	0	0
57	2d	1	Total Mg 1 1	0	0
57	2e	2	Total Mg 2 2	0	0
57	2f	2	Total Mg 2 2	0	0
57	2g	1	Total Mg 1 1	0	0
57	2i	1	Total Mg 1 1	0	0
57	2j	2	Total Mg 2 2	0	0
57	2l	3	Total Mg 3 3	0	0
57	2n	1	Total Mg 1 1	0	0
57	2q	3	Total Mg 3 3	0	0
57	2r	1	Total Mg 1 1	0	0
57	2t	1	Total Mg 1 1	0	0
57	2v	2	Total Mg 2 2	0	0
57	2x	6	Total Mg 6 6	0	0
57	2y	7	Total Mg 7 7	0	0
57	C	2	Total Mg 2 2	0	0

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

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

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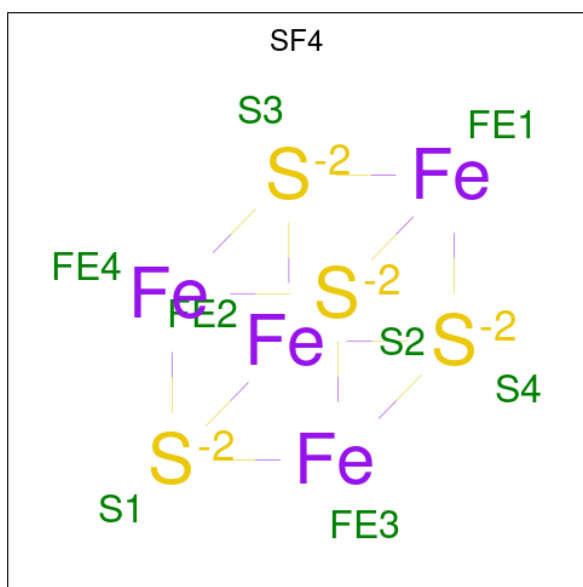
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	2A	1	Total K 1 1	0	0

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1Y	1	Total Zn 1 1	0	0
59	14	1	Total Zn 1 1	0	0
59	15	1	Total Zn 1 1	0	0
59	16	1	Total Zn 1 1	0	0
59	19	1	Total Zn 1 1	0	0
59	1n	1	Total Zn 1 1	0	0
59	2Y	1	Total Zn 1 1	0	0
59	24	1	Total Zn 1 1	0	0
59	25	1	Total Zn 1 1	0	0
59	26	1	Total Zn 1 1	0	0
59	29	1	Total Zn 1 1	0	0
59	2n	1	Total Zn 1 1	0	0

- Molecule 60 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄).



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	2172	Total	O	0	0
			2172	2172		
61	1B	71	Total	O	0	0
			71	71		
61	1D	28	Total	O	0	0
			28	28		
61	1E	29	Total	O	0	0
			29	29		
61	1F	18	Total	O	0	0
			18	18		
61	1G	7	Total	O	0	0
			7	7		
61	1H	2	Total	O	0	0
			2	2		
61	1I	2	Total	O	0	0
			2	2		
61	1N	5	Total	O	0	0
			5	5		
61	1O	8	Total	O	0	0
			8	8		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1P	23	Total 23	O 23	0	0
61	1Q	11	Total 11	O 11	0	0
61	1R	18	Total 18	O 18	0	0
61	1S	3	Total 3	O 3	0	0
61	1T	10	Total 10	O 10	0	0
61	1U	11	Total 11	O 11	0	0
61	1V	8	Total 8	O 8	0	0
61	1W	7	Total 7	O 7	0	0
61	1X	7	Total 7	O 7	0	0
61	1Y	4	Total 4	O 4	0	0
61	1Z	1	Total 1	O 1	0	0
61	10	11	Total 11	O 11	0	0
61	11	9	Total 9	O 9	0	0
61	12	5	Total 5	O 5	0	0
61	13	6	Total 6	O 6	0	0
61	15	5	Total 5	O 5	0	0
61	16	4	Total 4	O 4	0	0
61	17	7	Total 7	O 7	0	0
61	18	12	Total 12	O 12	0	0
61	19	1	Total 1	O 1	0	0
61	1a	686	Total 686	O 686	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1b	1	Total 1	O 1	0	0
61	1d	3	Total 3	O 3	0	0
61	1f	1	Total 1	O 1	0	0
61	1g	1	Total 1	O 1	0	0
61	1i	1	Total 1	O 1	0	0
61	1l	10	Total 10	O 10	0	0
61	1m	1	Total 1	O 1	0	0
61	1o	2	Total 2	O 2	0	0
61	1p	3	Total 3	O 3	0	0
61	1q	5	Total 5	O 5	0	0
61	1u	1	Total 1	O 1	0	0
61	1v	6	Total 6	O 6	0	0
61	1w	7	Total 7	O 7	0	0
61	1x	17	Total 17	O 17	0	0
61	1y	4	Total 4	O 4	0	0
61	2A	1348	Total 1348	O 1348	0	0
61	2B	27	Total 27	O 27	0	0
61	2D	26	Total 26	O 26	0	0
61	2E	12	Total 12	O 12	0	0
61	2F	17	Total 17	O 17	0	0
61	2I	4	Total 4	O 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2N	2	Total 2	O 2	0	0
61	2O	2	Total 2	O 2	0	0
61	2P	14	Total 14	O 14	0	0
61	2Q	2	Total 2	O 2	0	0
61	2R	3	Total 3	O 3	0	0
61	2T	6	Total 6	O 6	0	0
61	2U	4	Total 4	O 4	0	0
61	2V	1	Total 1	O 1	0	0
61	2W	5	Total 5	O 5	0	0
61	2X	6	Total 6	O 6	0	0
61	2Y	1	Total 1	O 1	0	0
61	2Z	2	Total 2	O 2	0	0
61	20	5	Total 5	O 5	0	0
61	21	12	Total 12	O 12	0	0
61	22	1	Total 1	O 1	0	0
61	23	1	Total 1	O 1	0	0
61	25	4	Total 4	O 4	0	0
61	26	1	Total 1	O 1	0	0
61	27	3	Total 3	O 3	0	0
61	28	5	Total 5	O 5	0	0
61	29	1	Total 1	O 1	0	0

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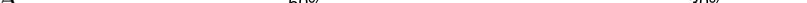
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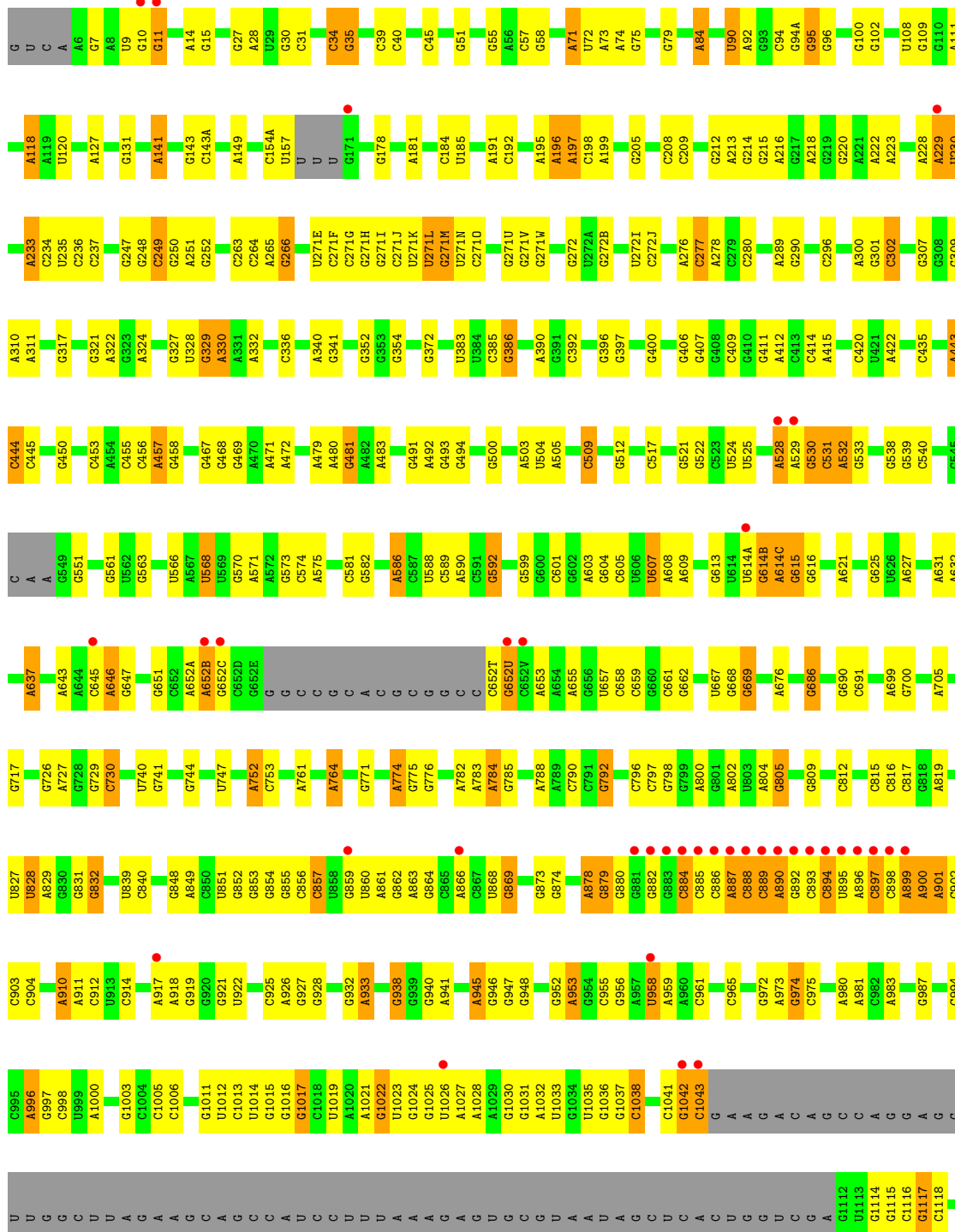
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	2a	270	Total 270	O 270	0	0
61	2d	1	Total 1	O 1	0	0
61	2g	1	Total 1	O 1	0	0
61	2j	4	Total 4	O 4	0	0
61	2l	5	Total 5	O 5	0	0
61	2m	1	Total 1	O 1	0	0
61	2o	1	Total 1	O 1	0	0
61	2p	2	Total 2	O 2	0	0
61	2q	1	Total 1	O 1	0	0
61	2r	1	Total 1	O 1	0	0
61	2t	2	Total 2	O 2	0	0
61	2v	4	Total 4	O 4	0	0
61	2w	4	Total 4	O 4	0	0
61	2x	7	Total 7	O 7	0	0
61	2y	19	Total 19	O 19	0	0
61	C	4	Total 4	O 4	0	0

A2794	C2892	G2562	A2430	A3317	G2206	A2141	A2042	U1933	C1813	A1688	A1554	U1418	G1232
C2800	C2695	C2563	U2431	C2316	G2209	G2142	C2043	A1934	A1814	G1689	C1555	A1419	G1232
C2801	C2696	U2564	A2434	G2319	C2210	G2143	G2045	C1935	A1815	G1689	A1556	C1246	C1246
C2802	U2696	G2565	U2435	G2320	G2211	G2146	A2052	U1937	A1816	G1692	A1557	A1425	A1255
C2803	G2697	U2566	C2436	A2321	G2212	G2147	A2053	A1938	A1817	C1693	G1558	G1426	U1256
C2804	U2698	U2567	A2437	U2324	G2215	A2148	G2054	U1939	C1821	G1694	C1559	U1256	
G2805	G2899	C2568	G2440	C2328	G2215	G2149	A2055	C1942	A1822	C1695	U1566	A1430	C1263
G2806	U2700	A2576	G2441	G2328	A2220	C2150	A2055	C1942	U1825	C1700	G1567	G1431	C1263
C2807	C2701	A2577	A2442	G2331	G2220	C2151	G2060	G1951	U1826	A1701	G1567	C1432	A1265
U	C2702	A2578	U2443	A2332	G2227	U2152	C2061	G1952	C1827	U1711	A1575	U1440	G1273
C	G2703	G2579	U2443	A2332	G2228	U2154	C2061	U1953	U1828	A1712	A1575	A1441	G1273
U	C2704	G2579	A2444	G2337	A2229	G2155	C2065	A1954	U1829	A1712	C1579	U1442	
A	A2705	C2580	A2447	C2338	U2230	A2156	C2065	G1955	G1830	G1713	G	A1299	
G2812	G2706	G2581	A2451	C2338	G2236	A2157	G2071	A1959	U1831	G1713	U	U1451	
G2813	C2707	A2584	A2451	A2339	A2237	C2158	C2077	A1960	A1832	G1714	A	U1452	
U	U2708	C2585	C2452	G2341	A2237	C2159	C2077	A1960	A1833	A1715	C	U1453	
G2816	U2714	A2589	C2453	G2342	C2238	C2160	G2078	U1961	A1834	A1716	G1584	C1454	G1312
G2822	C2715	A2589	A2460	G2343	U2245	C2161	A2082	C1964	C1835	G1721	U1587	G1462	U1313
C2825	G2718	C2598	G2470	G2346	G2246	G2163	G2083	C1964	U1836	C1722	U1587	G1470	U1314
A2830	G2721	G2603	C2473	A2347	G2247	C2164	A2084	U1977	A1841	A1723	G1588	G1471	A1324
A2831	C2722	G2604	C2473	A2348	G2247	C2165	A2084	U1977	A1841	A1724	G1589	G1472	A1324
G2832	A2723	A2614	U2474	G2349	G2250	U2166	C2087	C1979	G1842	G1725	C1590	A1473	U1338
A2833	U2724	G2615	C2485	G2349	G2251	C2167	C2088	C1980	G1847	C1733	C1593	G1474	C1339
C2834	C2725	G2616	U2486	U2360	U2255	C2168	G2091	C1984	G1848	G1734	C1604	G1475	C1343
A2845	U2726	U2617	C2487	U2361	U2256	G2170	G2096	U1985	G1857	U1735	A1605	G1476	C1343
G2849	G2727	U2617	C2488	C2362	U2256	G2171	U2097	G1986	G1857	U1739	A1613	G1477	U1346
U2858	U2735	G2620	U2485	G2366	U2261	U2172	U2097	C1987	A1860	U1740	A1613	A1478	U1347
U2859	C2736	U2621	C2486	G2366	G2262	G2173	U2108	A1988	C1868	G1741	A1616	G1479	A1348
A2867	U2737	C2622	A2488	A2373	G2263	G2175	G2109	G1990	G1873	G1743	U1626	G1475	G1349
U2870	G2744	C2624	C2495	C2376	A2280	G2176	G2114	A1991	G1873	A1747	A1627	G1476	
A2878	G2745	C2629	U2504	G2377	A2281	G2177	G2115	A1993	A1878	A1748	G1628	C1483	
C2879	A2746	C2638	U2505	G2377	G2282	G2179	G2115	A1994	G1889	G1749	G1628	A1491	
C2880	G2760	G2639	C2510	A2388	G2283	A2180	U2118	A2003	U1895	G1750	C1631	G1495	A1354
C2881	A2761	G2639	C2510	A2388	U2284	G2181	C2119	A2003	G1896	U1756	A1632	G1496	A1354
C2882	G2762	G2642	G2514	A2390	A2285	G2182	U2120	G2011	G1897	C1757	A1633	G1497	
A2883	U2763	G2642	G2515	A2390	A2286	C2183	U2121	C2012	A1898	G1765	C1634	G1502	G1371
C2890	G2764	G2645	U2516	G2395	A2290	C2185	G2122	U2013	A1899	G1766	C1635	G1506	G1384
C2891	C2765	G2646	G2517	G2396	C2295	C2186	G2123	G2014	G1900	G1766	G1639	G1506	
A2892	A2766	G2647	U2518	C2397	C2295	G2187	U2124	U2015	G1900	U1767	G1641	G1513	A1388
U2897	U2767	U2648	G2520	G2401	A2298	U2189	C2128	C2018	C1902	U1768	G1639	C1514	G1390
C2898	C2768	G2650	A2530	U2402	A2299	G2190	C2130	G2019	G1904	G1787	C1650	G1529	U1398
A2901	A2771	C2658	G2541	A2405	G2301	A2193	U2131	C2020	C1905	A1793	A1654	G1529	U1398
C2902	A2777	U2659	A2545	A2405	G2302	U2194	G2132	G2021	A1911	G1794	A1655	C1539	A1399
G2903	G2778	C2660	C2416	C2416	C2304	A2195	C2133	A2023	A1912	G1795	A1656	A1540	G1401
U2906	C2787	U2662	U2417	U2417	U2308	C2197	U2135	G2024	A1904	A1804	A1679	A1542	A1406
U	A2791	A2666	G2419	G2419	G2309	C2199	G2137	C2028	G1921	U1809	A1679	A1543	A1406
		A2672	G2422	G2422	G2311	C2200	G2138	A2035	A1922	U1810	C1683	U1549	G1410
						C2205	U2140	A2036	G1928	C1812	C1685	C1550	A1411

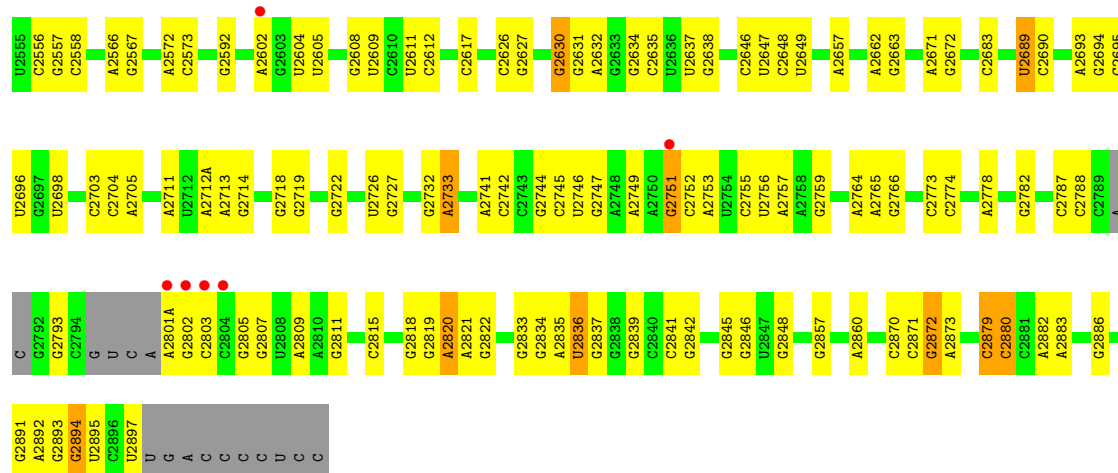
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- Molecule 1: 23S Ribosomal RNA

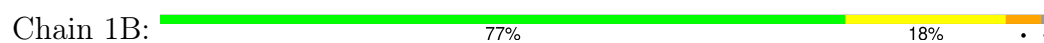
Chain 2A: 



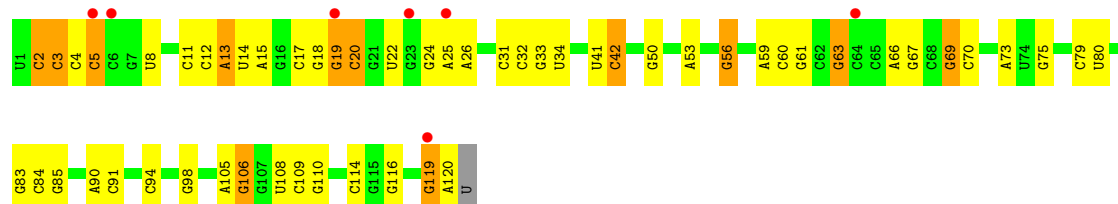




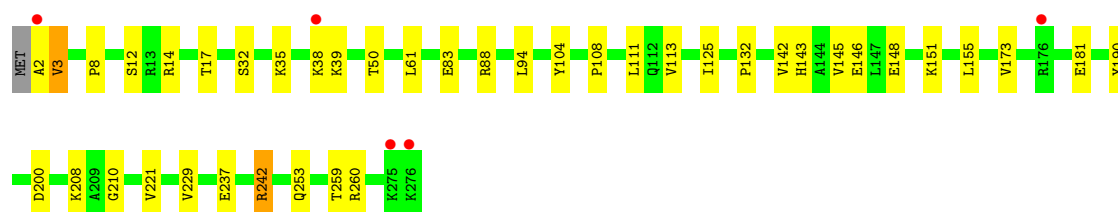
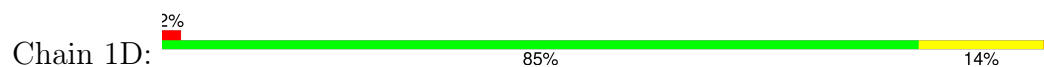
• Molecule 2: 5S Ribosomal RNA



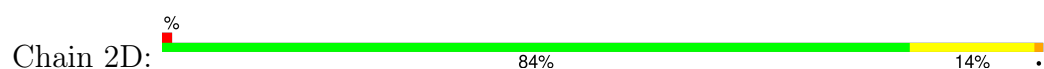
• Molecule 2: 5S Ribosomal RNA



• Molecule 3: 50S ribosomal protein L2

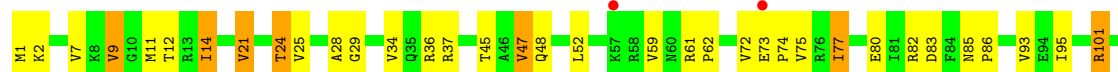


• Molecule 3: 50S ribosomal protein L2

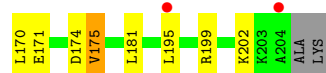
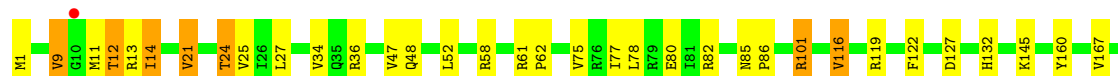
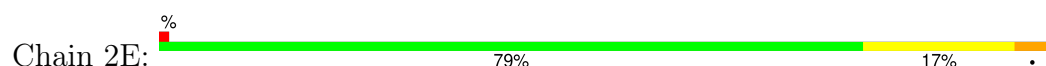




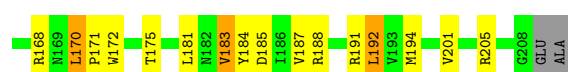
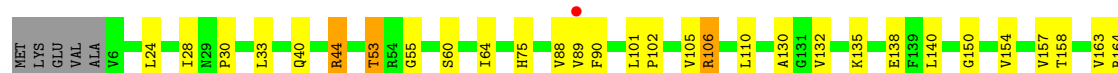
• Molecule 4: 50S ribosomal protein L3



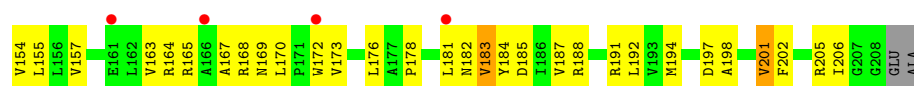
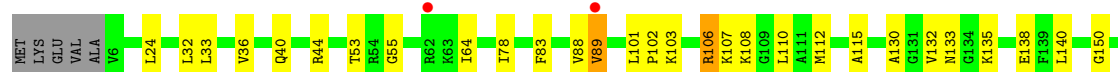
• Molecule 4: 50S ribosomal protein L3



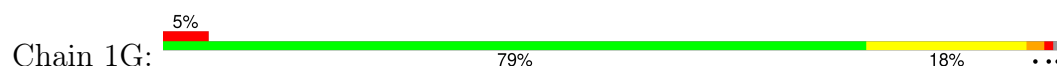
• Molecule 5: 50S ribosomal protein L4

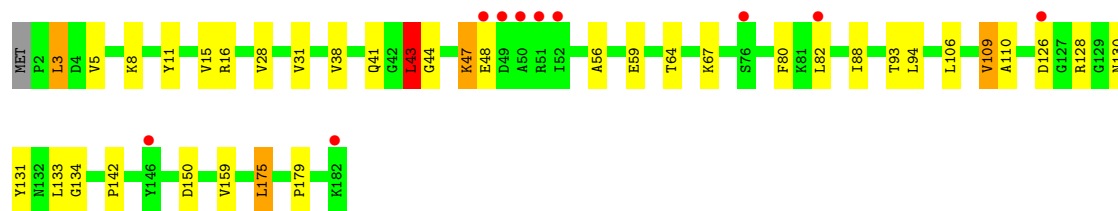


• Molecule 5: 50S ribosomal protein L4

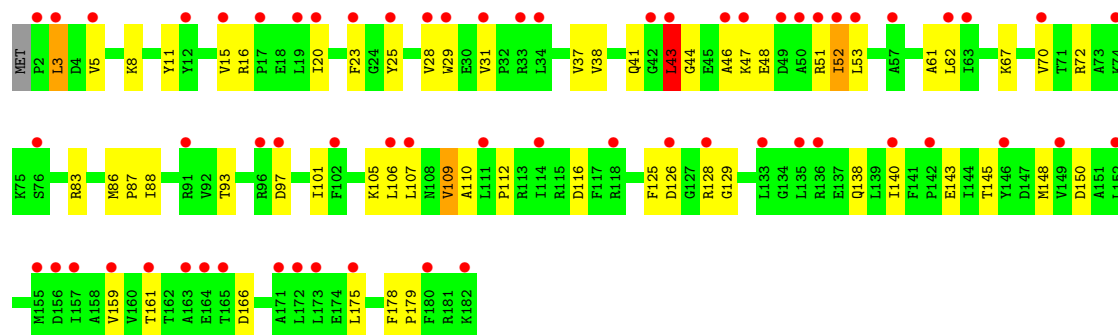


• Molecule 6: 50S ribosomal protein L5

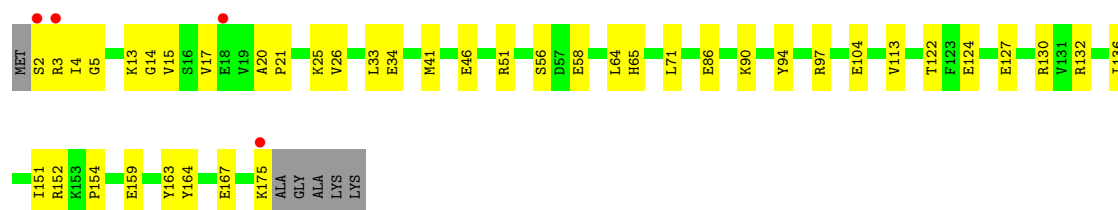
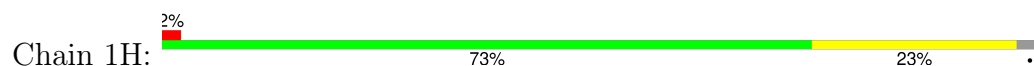




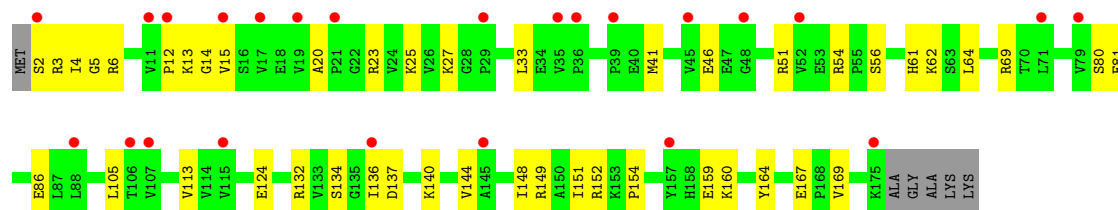
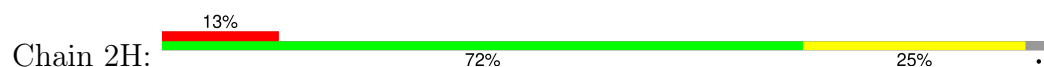
• Molecule 6: 50S ribosomal protein L5



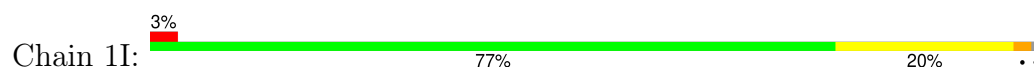
• Molecule 7: 50S ribosomal protein L6



• Molecule 7: 50S ribosomal protein L6

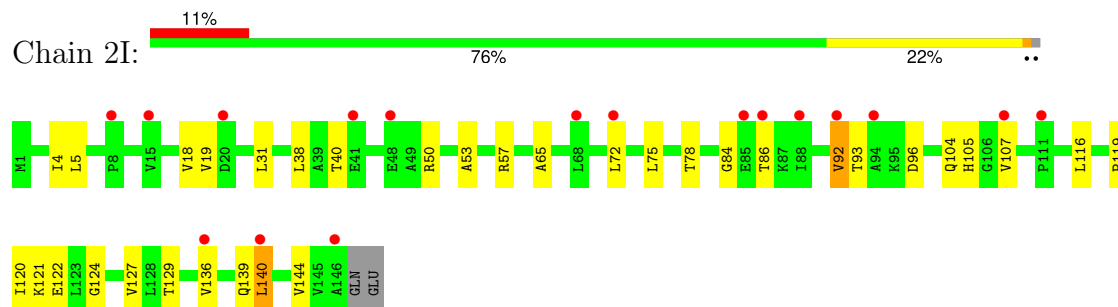


• Molecule 8: 50S ribosomal protein L9

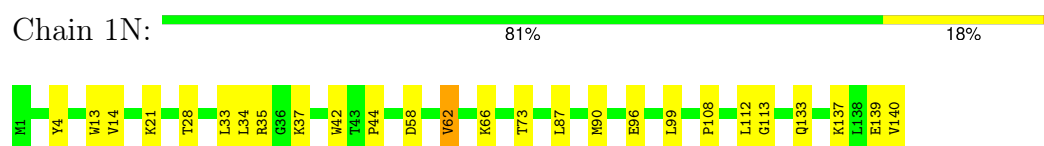


GLN
GLU

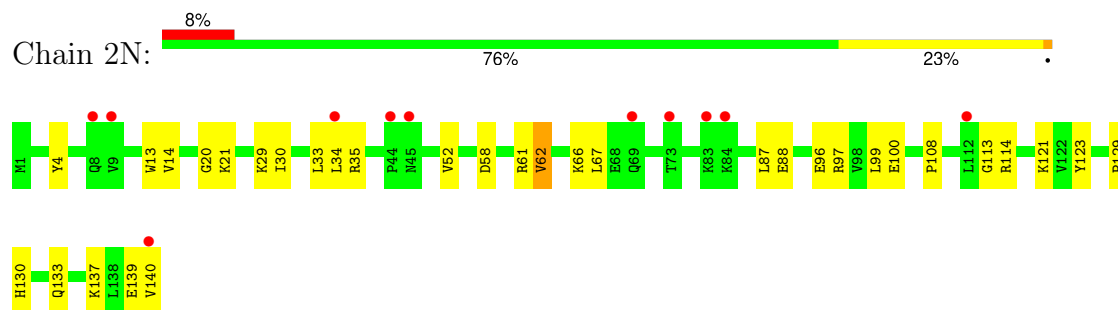
- Molecule 8: 50S ribosomal protein L9



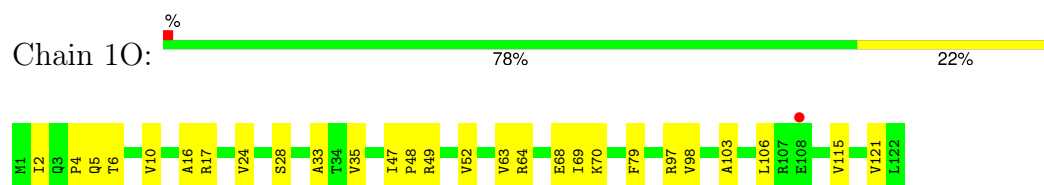
- Molecule 9: 50S ribosomal protein L13



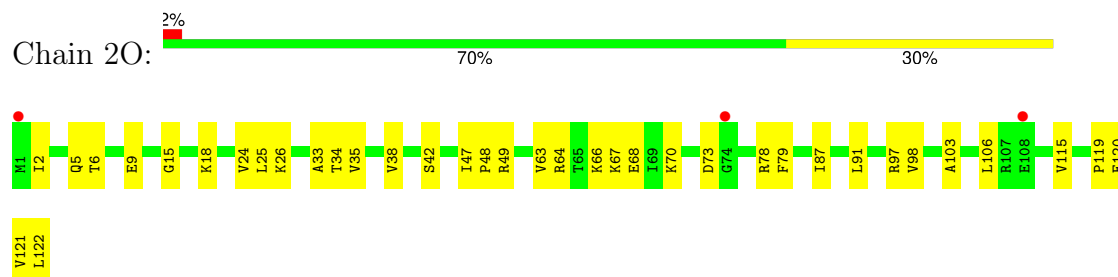
- Molecule 9: 50S ribosomal protein L13



- Molecule 10: 50S ribosomal protein L14



- Molecule 10: 50S ribosomal protein L14



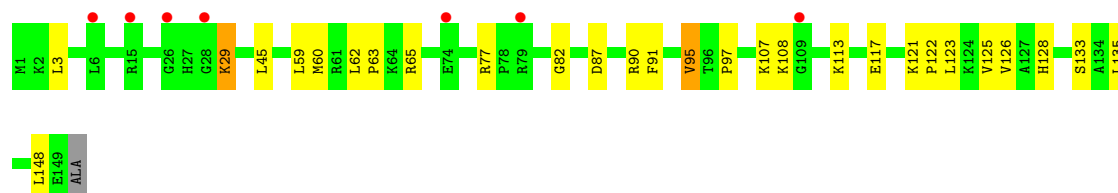
- Molecule 11: 50S ribosomal protein L15

Chain 1P:  78% 20% ..



- Molecule 11: 50S ribosomal protein L15

Chain 2P:  5% 81% 17% ..



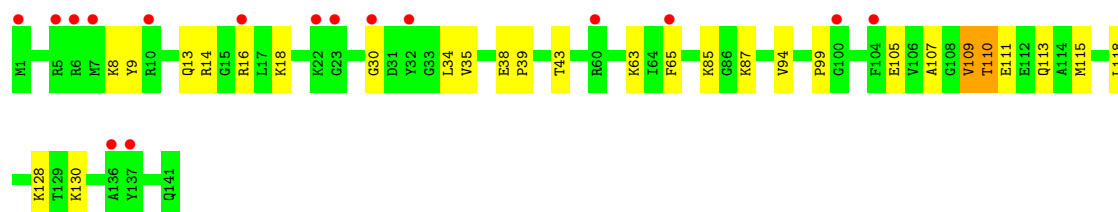
- Molecule 12: 50S ribosomal protein L16

Chain 1Q:  % 82% 18% .



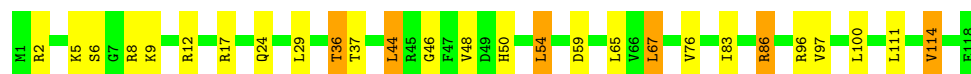
- Molecule 12: 50S ribosomal protein L16

Chain 2Q:  11% 80% 18% .



- Molecule 13: 50S ribosomal protein L17

Chain 1R:  77% 18% 5%



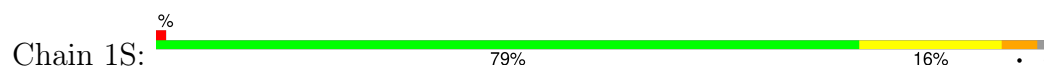
- Molecule 13: 50S ribosomal protein L17

Chain 2R:  % 73% 24% .

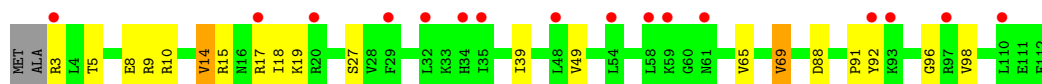
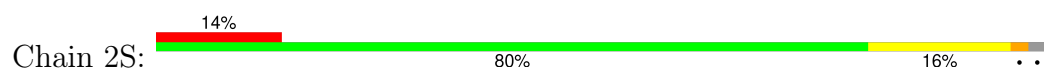




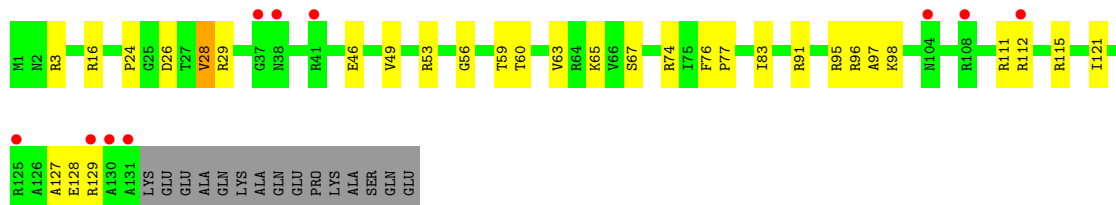
- Molecule 14: 50S ribosomal protein L18



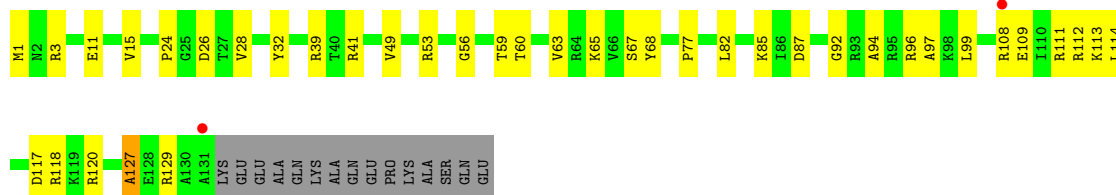
- Molecule 14: 50S ribosomal protein L18



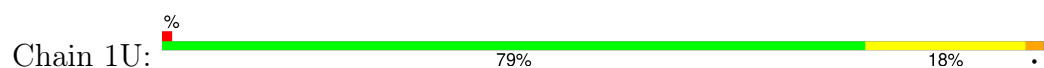
- Molecule 15: 50S ribosomal protein L19



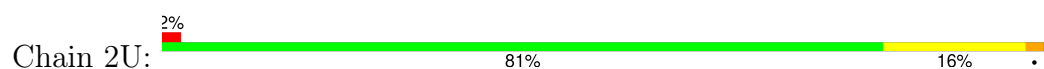
- Molecule 15: 50S ribosomal protein L19



- Molecule 16: 50S ribosomal protein L20

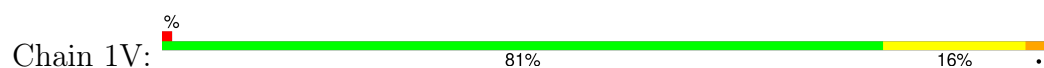


- Molecule 16: 50S ribosomal protein L20

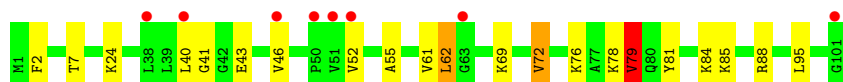
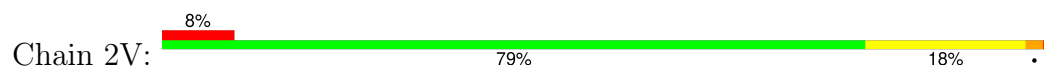




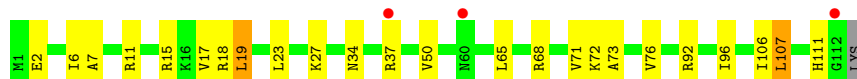
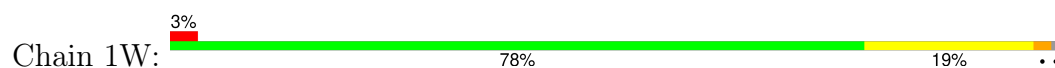
- Molecule 17: 50S ribosomal protein L21



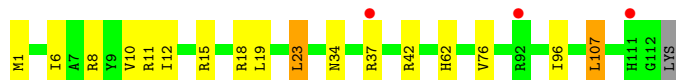
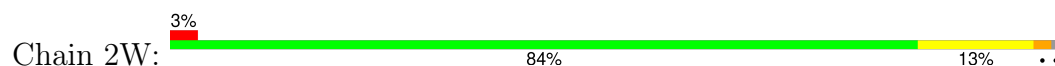
- Molecule 17: 50S ribosomal protein L21



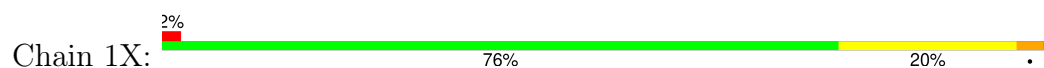
- Molecule 18: 50S ribosomal protein L22



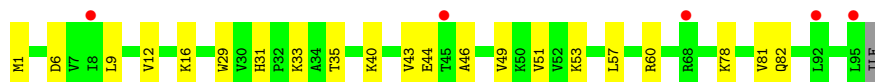
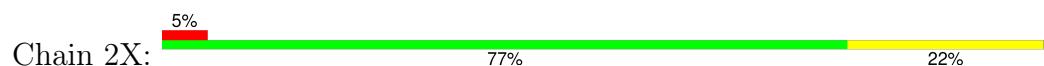
- Molecule 18: 50S ribosomal protein L22



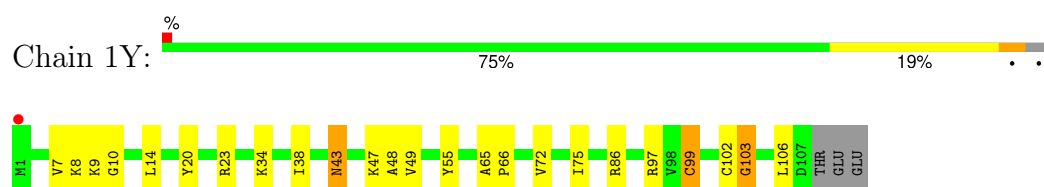
- Molecule 19: 50S ribosomal protein L23



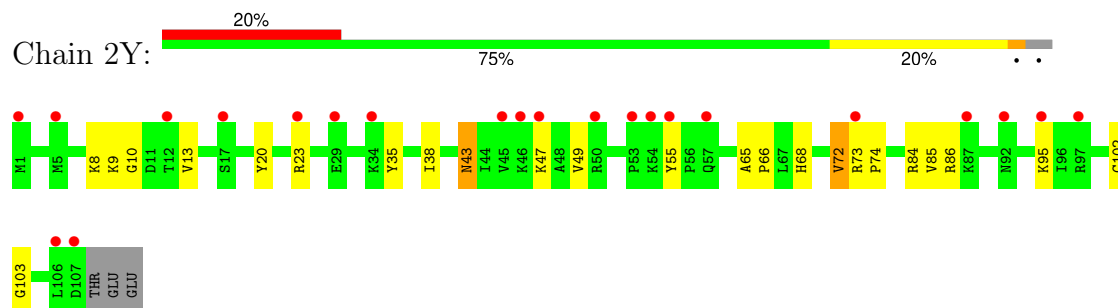
- Molecule 19: 50S ribosomal protein L23



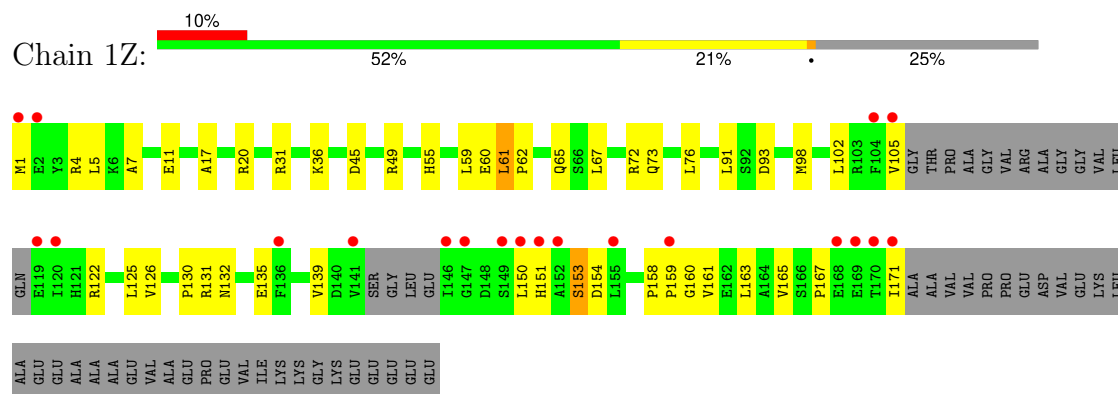
- Molecule 20: 50S ribosomal protein L24



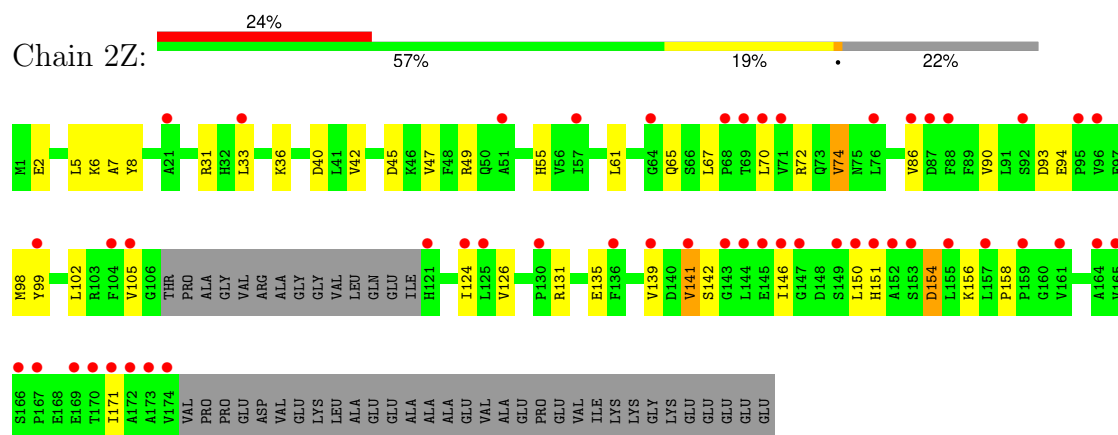
- Molecule 20: 50S ribosomal protein L24



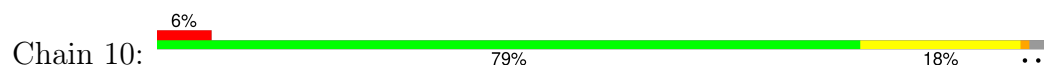
- Molecule 21: 50S ribosomal protein L25



- Molecule 21: 50S ribosomal protein L25

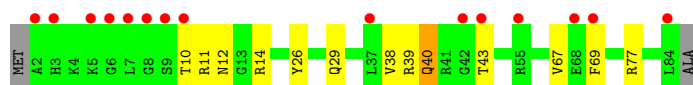
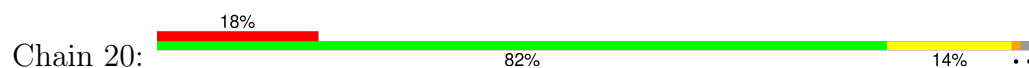


- Molecule 22: 50S ribosomal protein L27

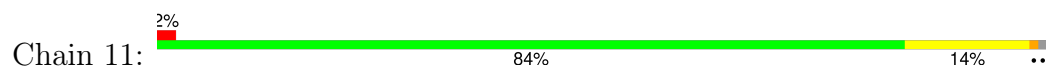




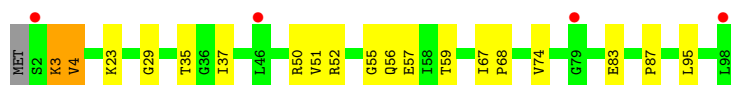
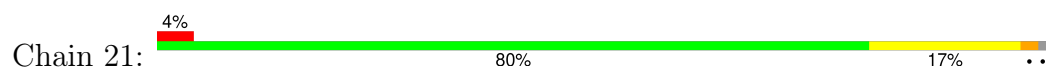
- Molecule 22: 50S ribosomal protein L27



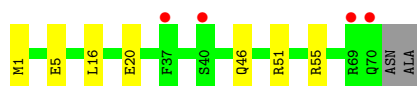
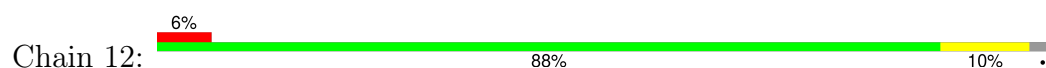
- Molecule 23: 50S ribosomal protein L28



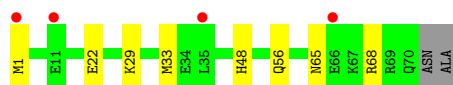
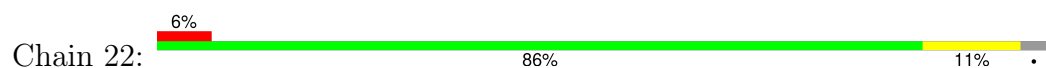
- Molecule 23: 50S ribosomal protein L28



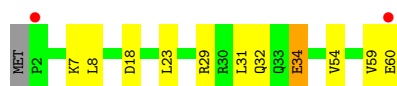
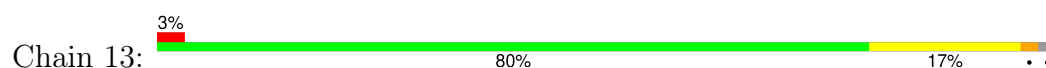
- Molecule 24: 50S ribosomal protein L29



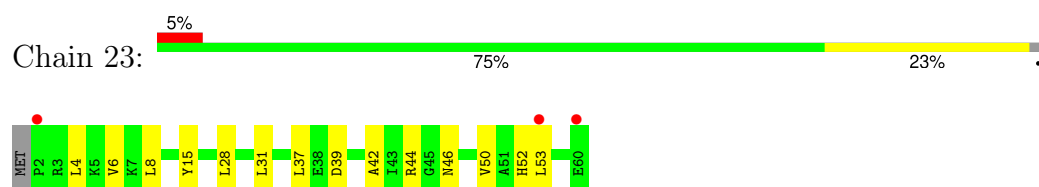
- Molecule 24: 50S ribosomal protein L29



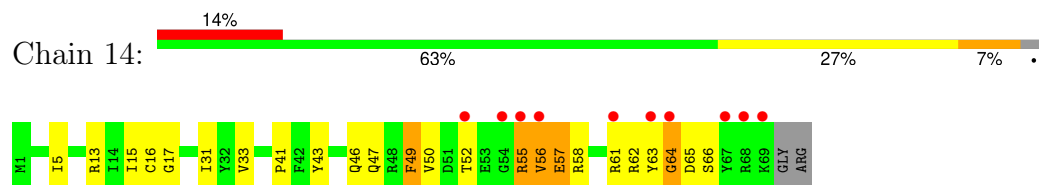
- Molecule 25: 50S ribosomal protein L30



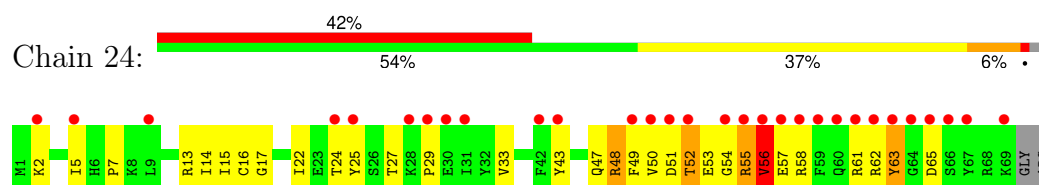
- Molecule 25: 50S ribosomal protein L30



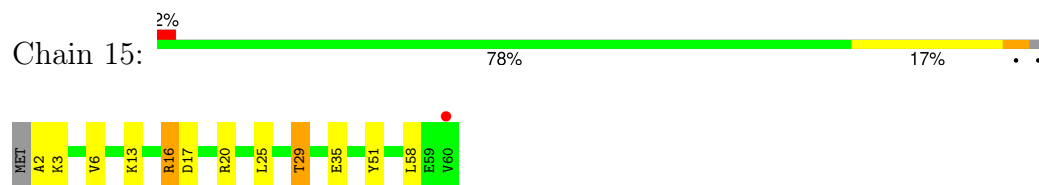
- Molecule 26: 50S ribosomal protein L31



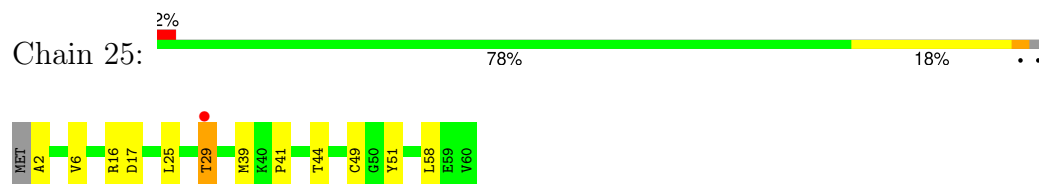
- Molecule 26: 50S ribosomal protein L31



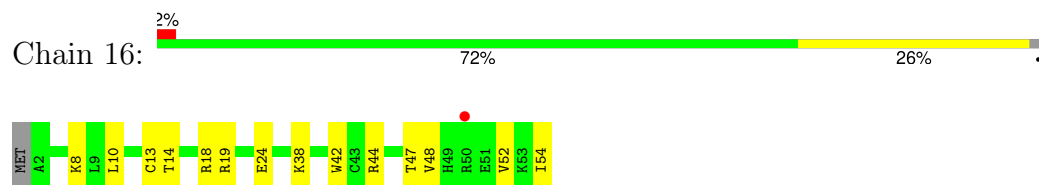
- Molecule 27: 50S ribosomal protein L32



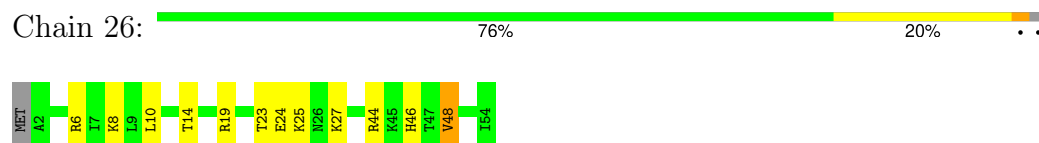
- Molecule 27: 50S ribosomal protein L32



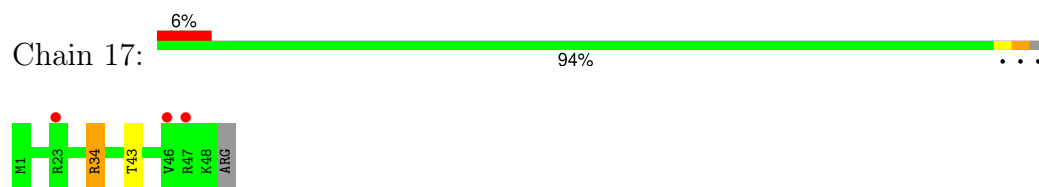
- Molecule 28: 50S ribosomal protein L33



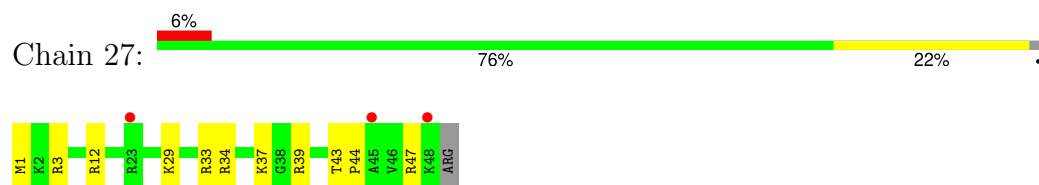
- Molecule 28: 50S ribosomal protein L33



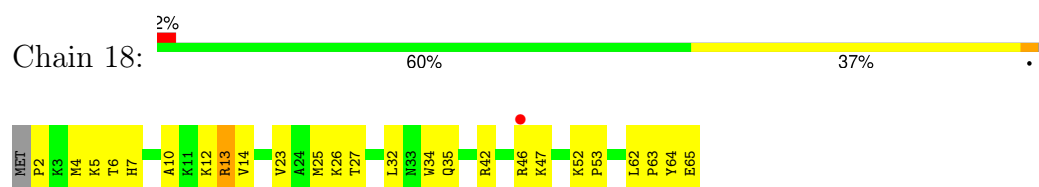
- Molecule 29: 50S ribosomal protein L34



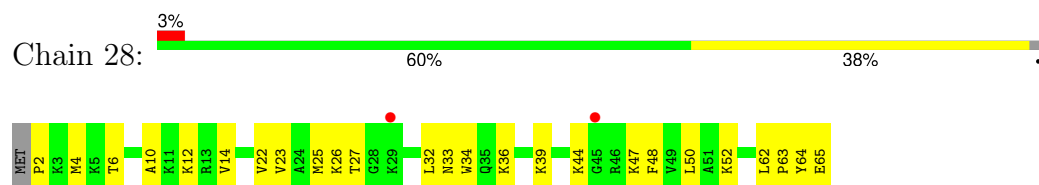
- Molecule 29: 50S ribosomal protein L34



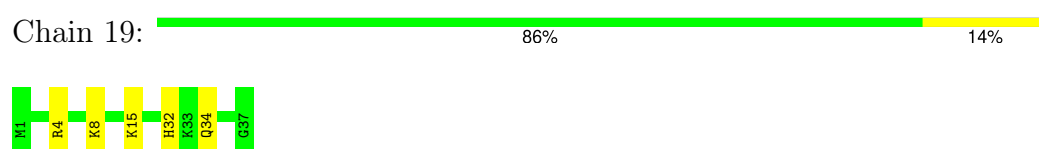
- Molecule 30: 50S ribosomal protein L35



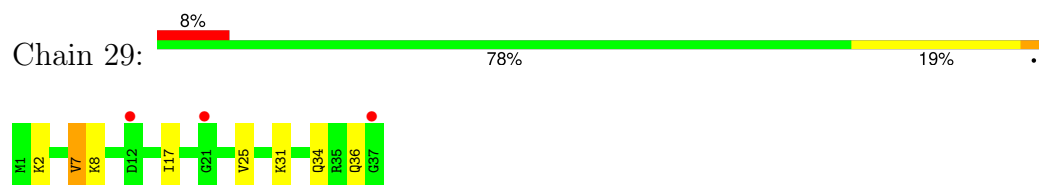
- Molecule 30: 50S ribosomal protein L35



- Molecule 31: 50S ribosomal protein L36

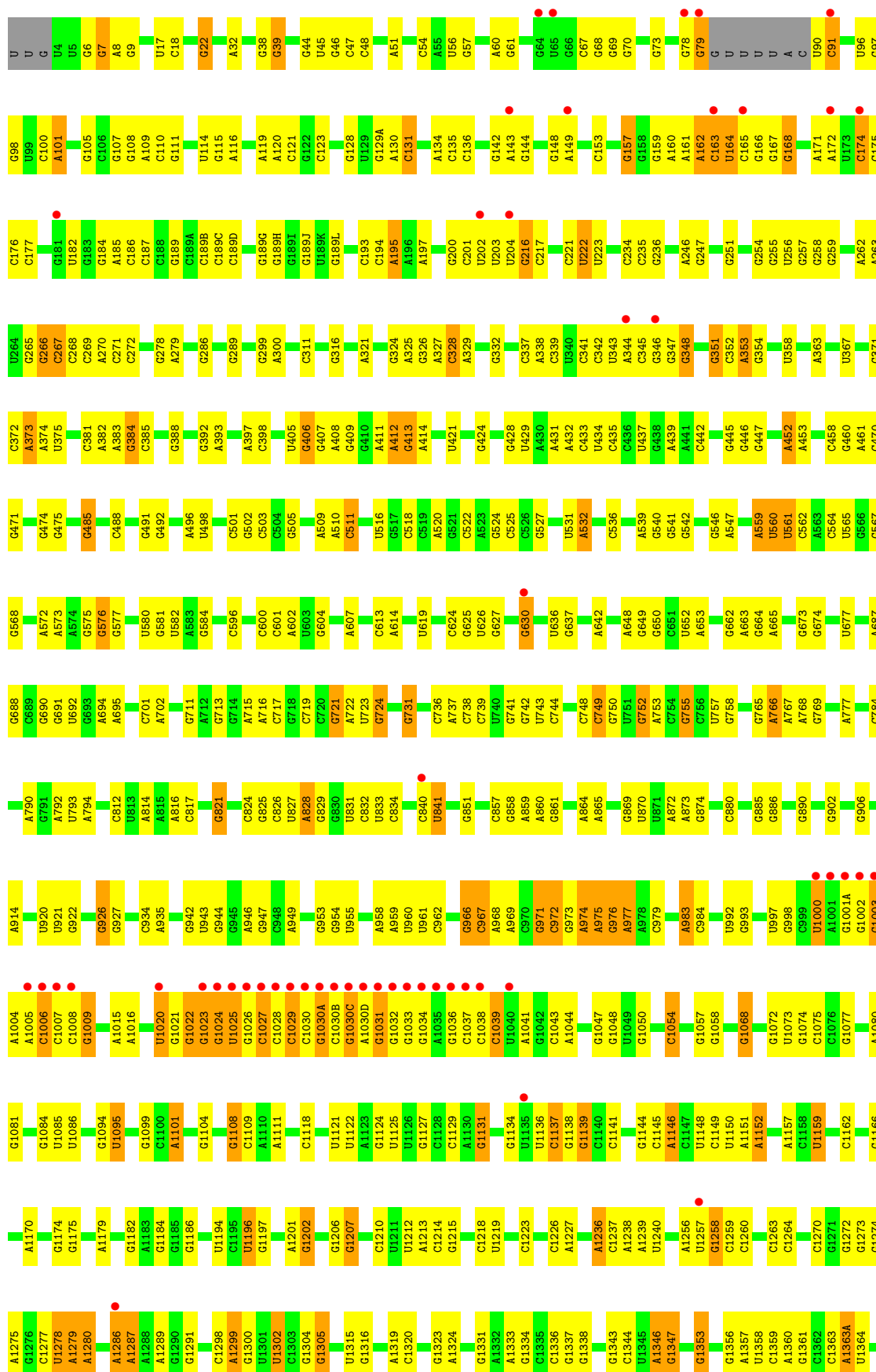


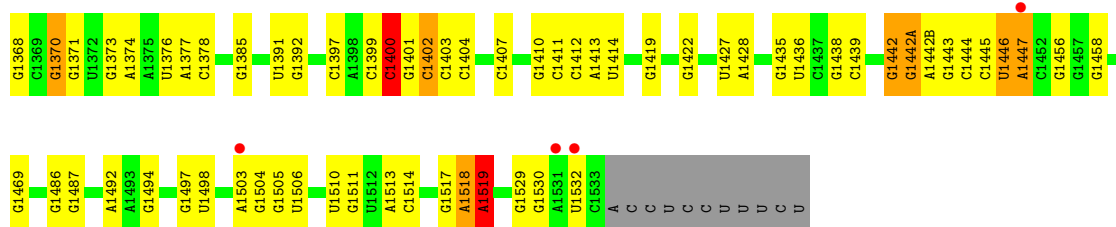
- Molecule 31: 50S ribosomal protein L36



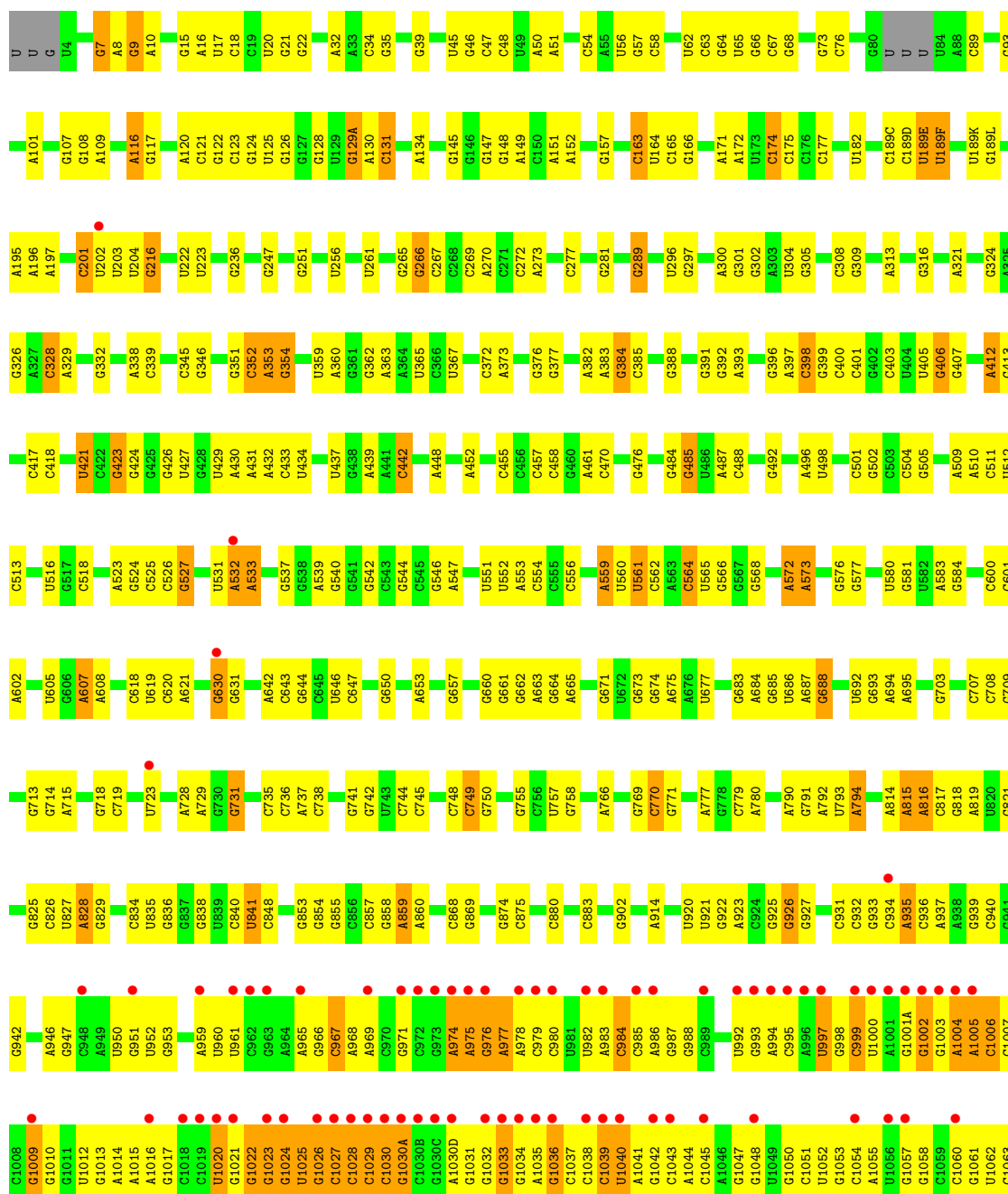
- Molecule 32: 16S Ribosomal RNA

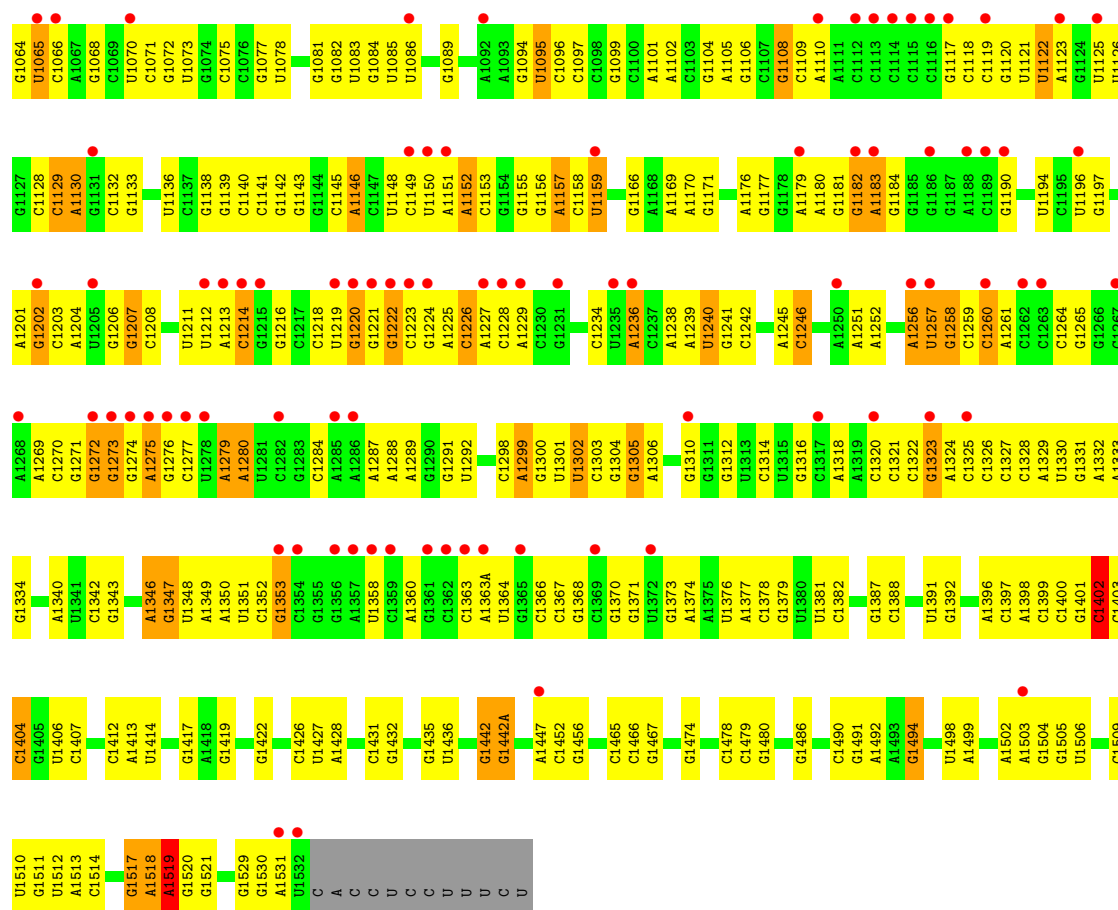




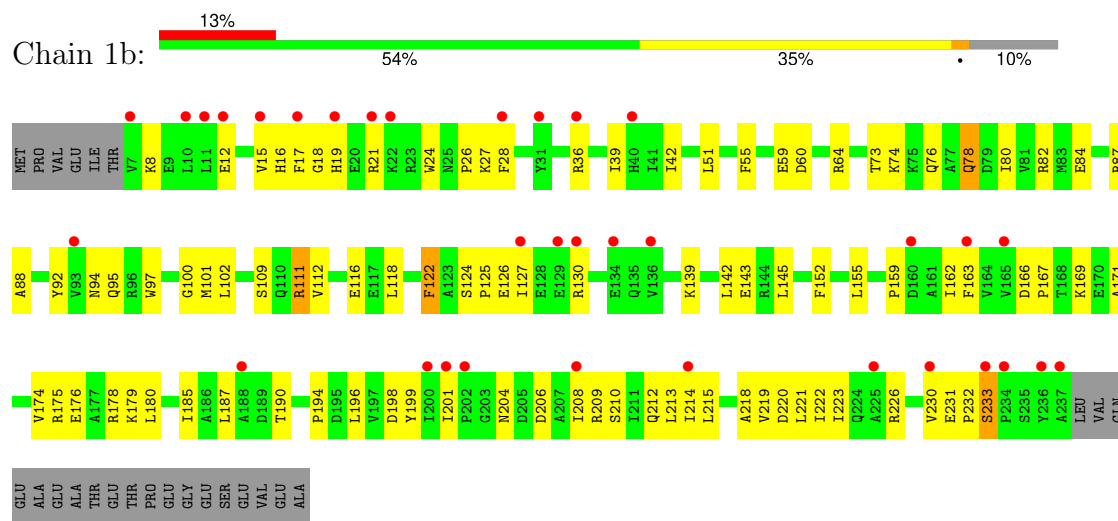


• Molecule 32: 16S Ribosomal RNA

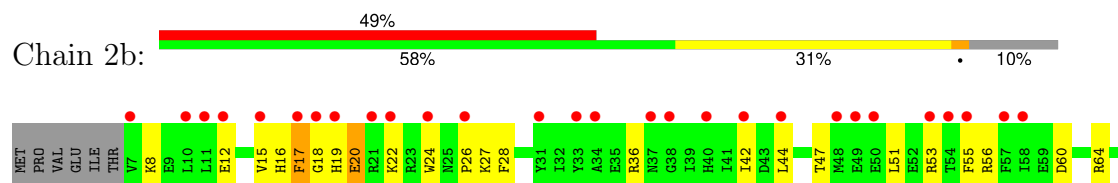


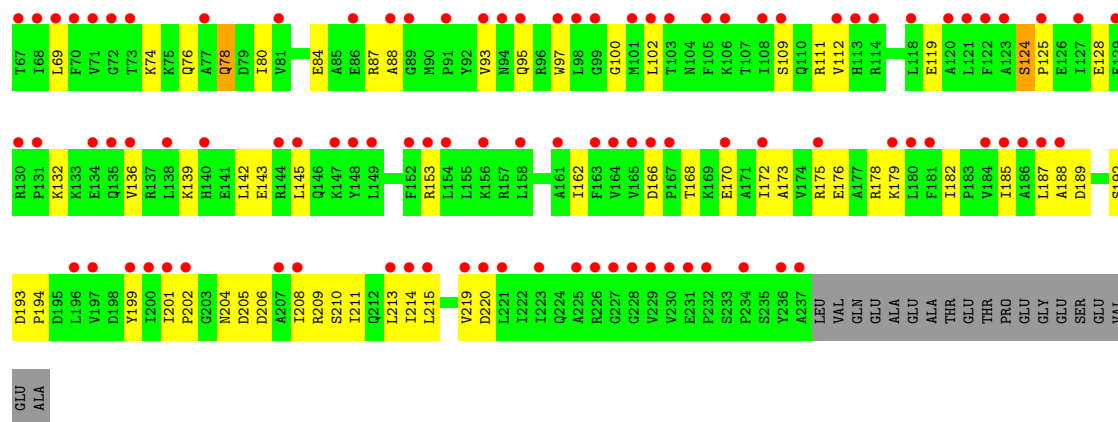


• Molecule 33: 30S ribosomal protein S2

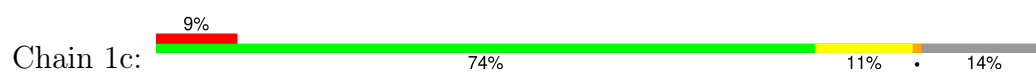


• Molecule 33: 30S ribosomal protein S2

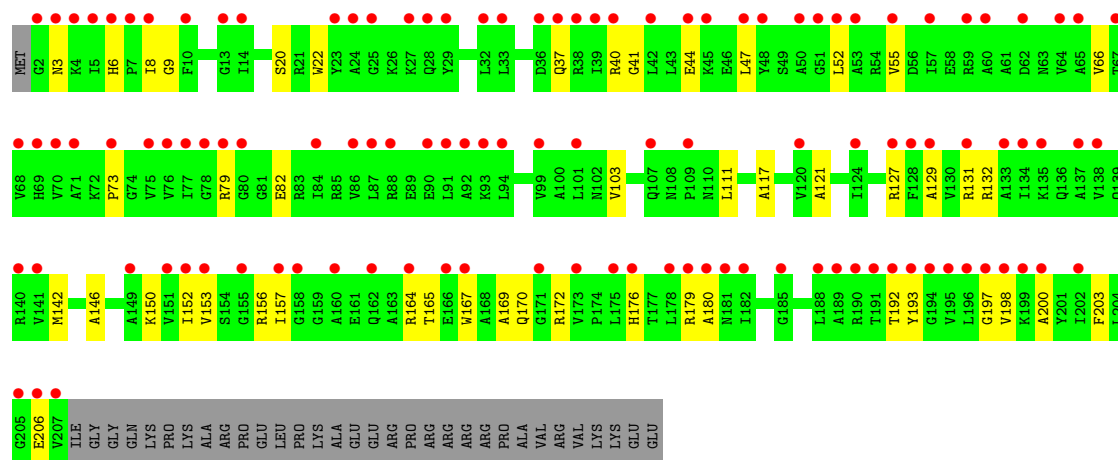




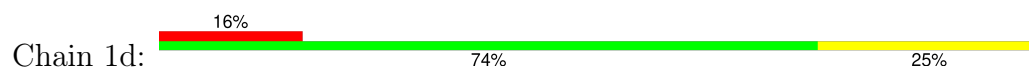
• Molecule 34: 30S ribosomal protein S3

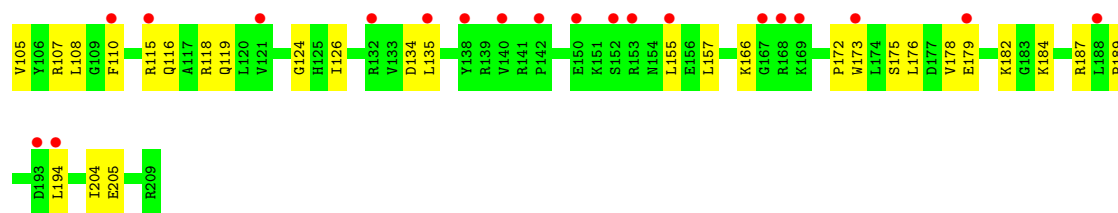


• Molecule 34: 30S ribosomal protein S3

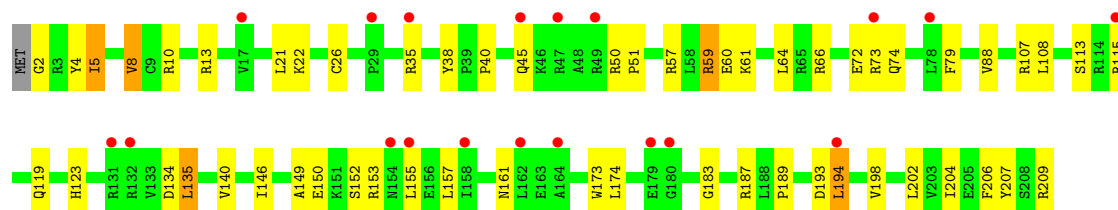
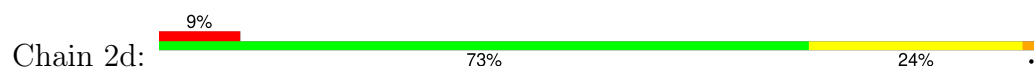


• Molecule 35: 30S ribosomal protein S4

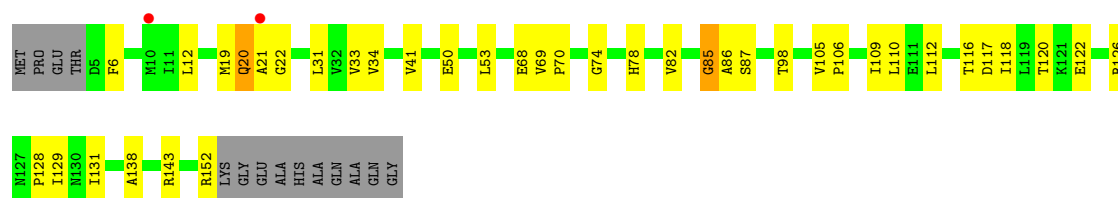




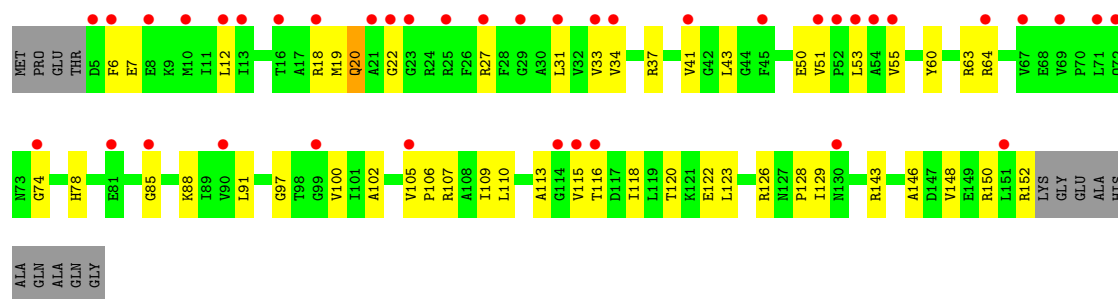
• Molecule 35: 30S ribosomal protein S4



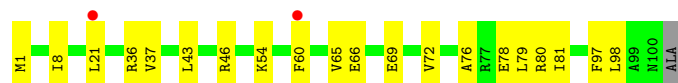
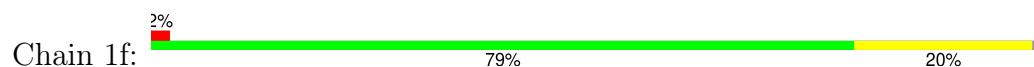
• Molecule 36: 30S ribosomal protein S5



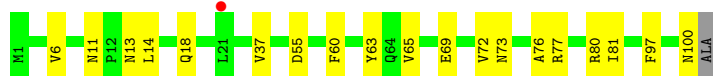
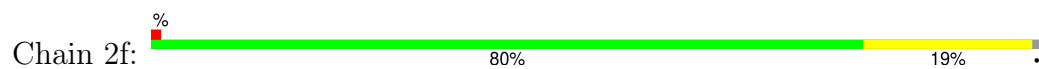
• Molecule 36: 30S ribosomal protein S5



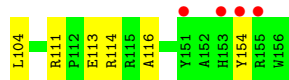
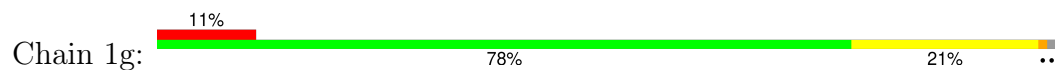
• Molecule 37: 30S ribosomal protein S6



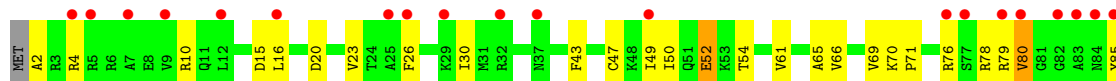
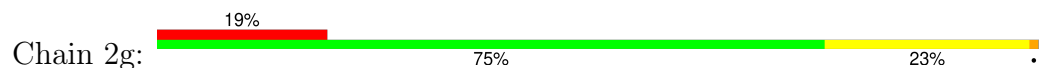
• Molecule 37: 30S ribosomal protein S6



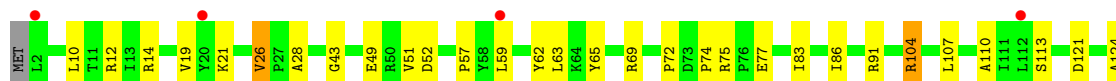
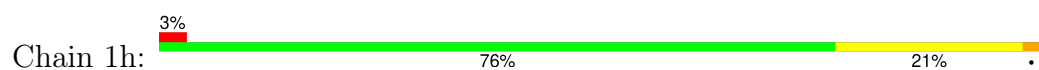
• Molecule 38: 30S ribosomal protein S7



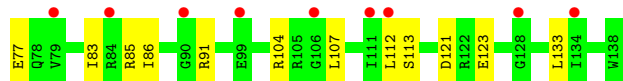
• Molecule 38: 30S ribosomal protein S7



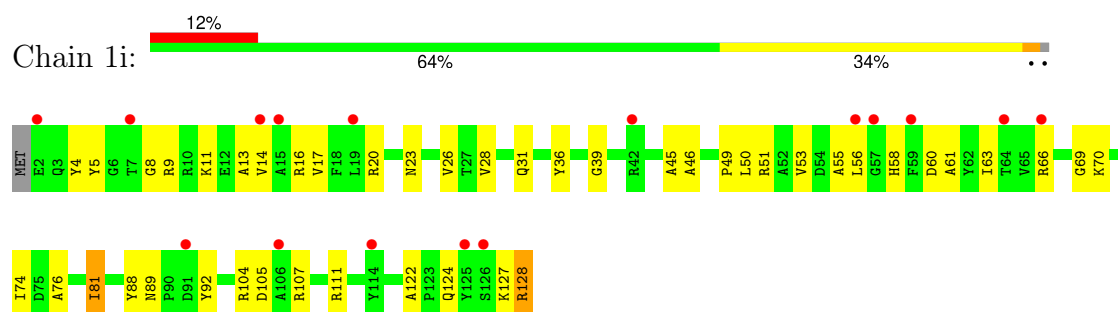
• Molecule 39: 30S ribosomal protein S8



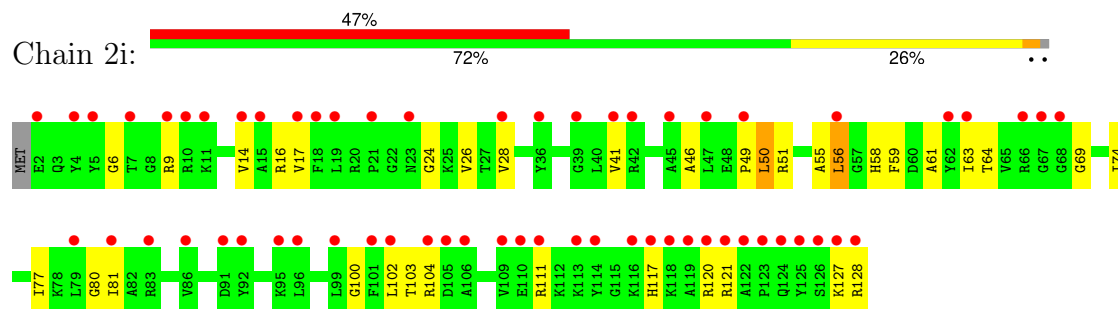
• Molecule 39: 30S ribosomal protein S8



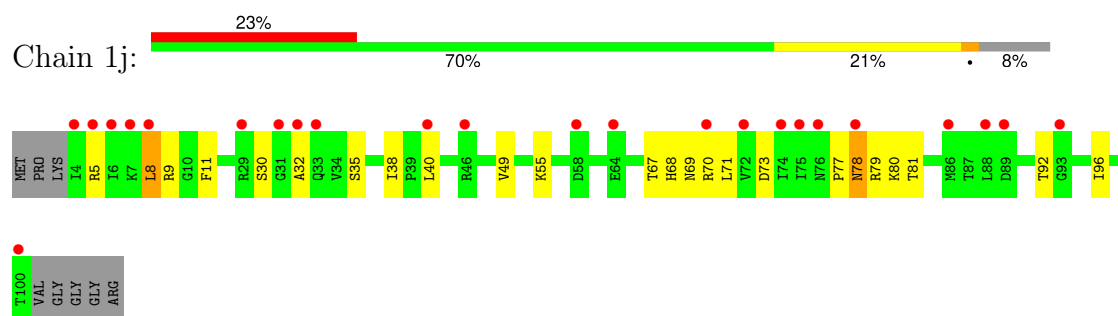
• Molecule 40: 30S ribosomal protein S9



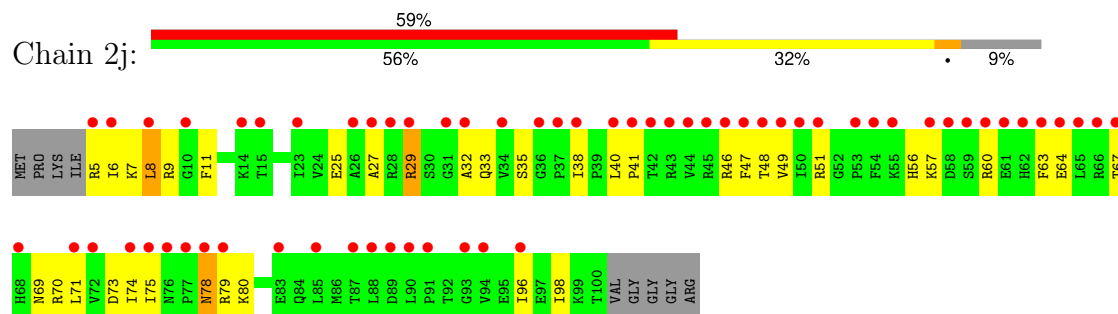
- Molecule 40: 30S ribosomal protein S9



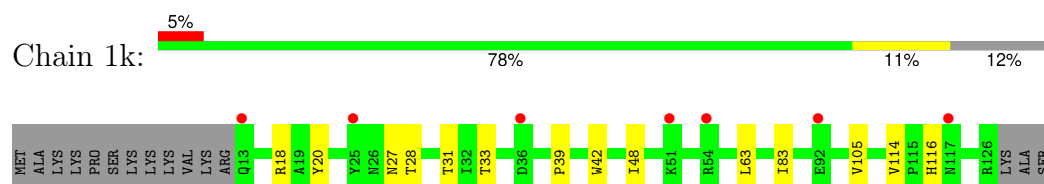
- Molecule 41: 30S ribosomal protein S10



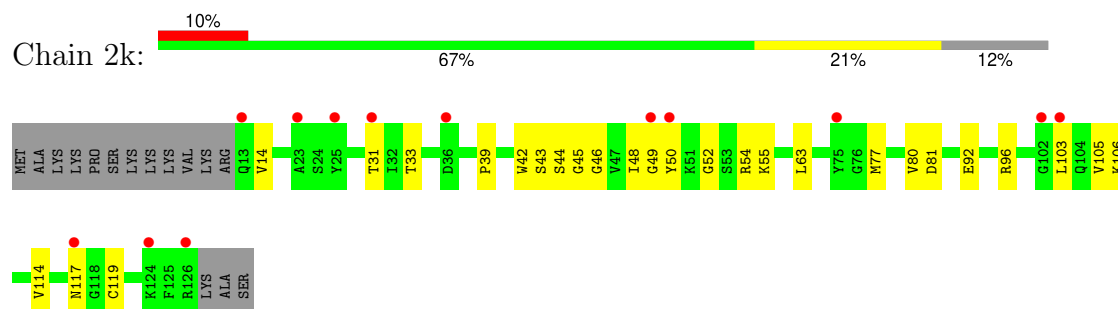
- Molecule 41: 30S ribosomal protein S10



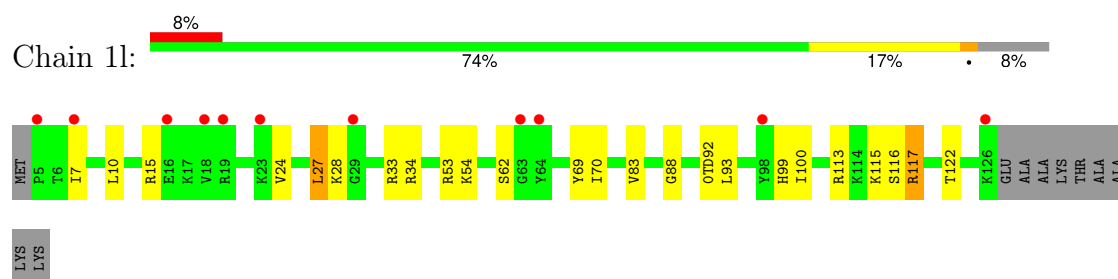
- Molecule 42: 30S ribosomal protein S11



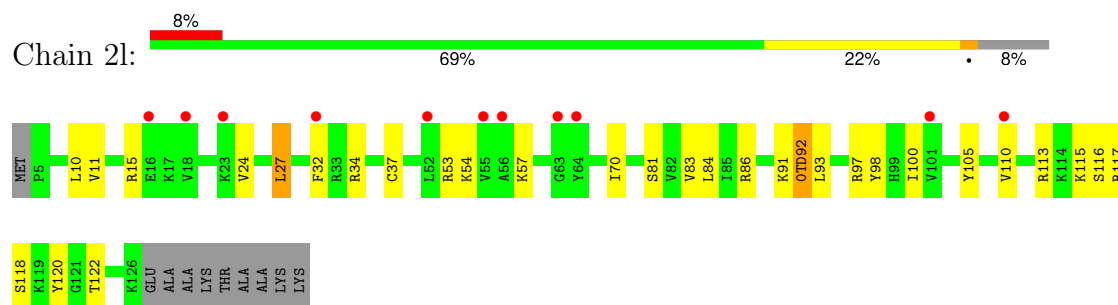
- Molecule 42: 30S ribosomal protein S11



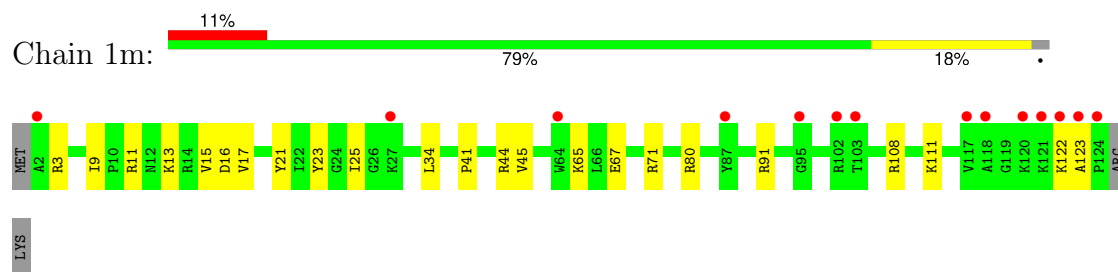
- Molecule 43: 30S ribosomal protein S12



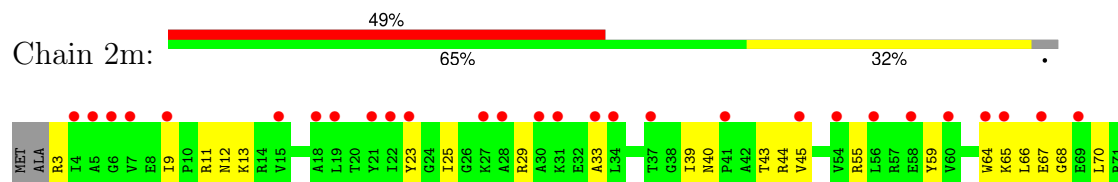
- Molecule 43: 30S ribosomal protein S12

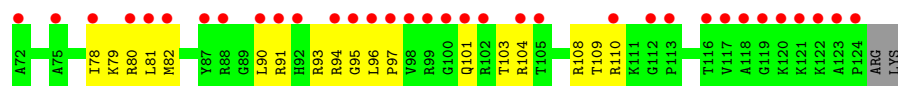


- Molecule 44: 30S ribosomal protein S13

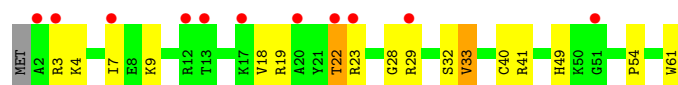


- Molecule 44: 30S ribosomal protein S13

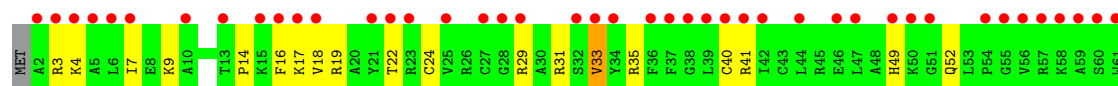




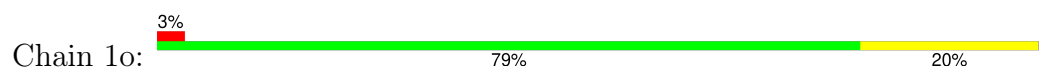
- Molecule 45: 30S ribosomal protein S14 type Z



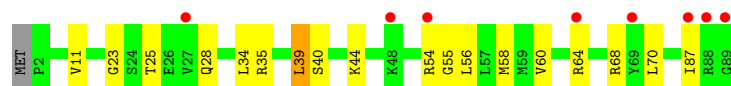
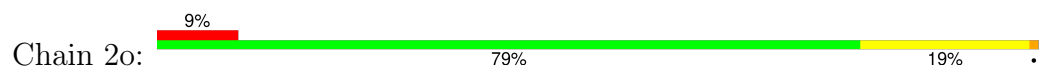
- Molecule 45: 30S ribosomal protein S14 type Z



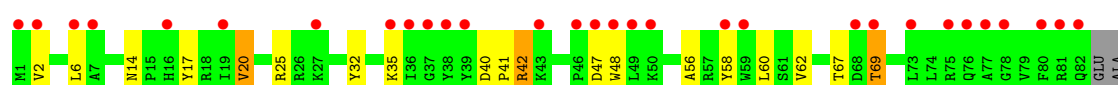
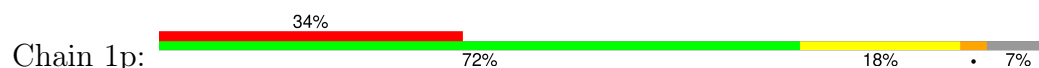
- Molecule 46: 30S ribosomal protein S15



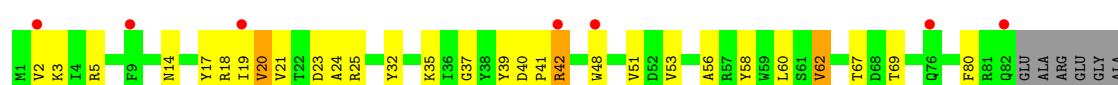
- Molecule 46: 30S ribosomal protein S15



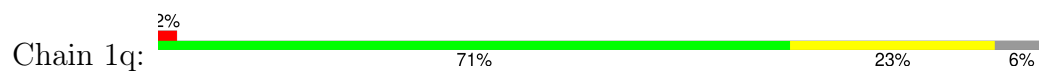
- Molecule 47: 30S ribosomal protein S16



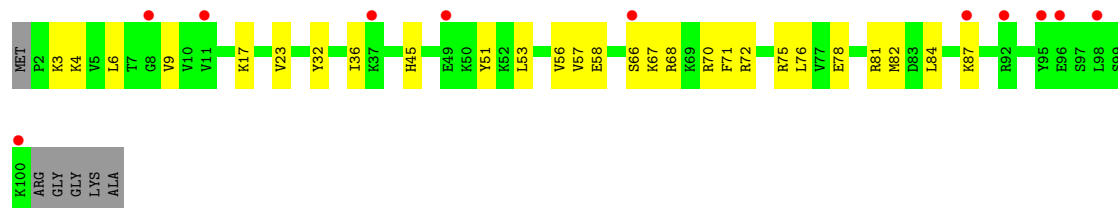
- Molecule 47: 30S ribosomal protein S16



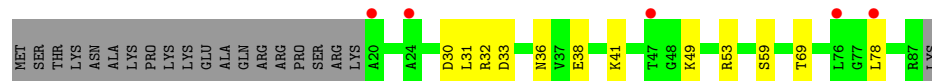
- Molecule 48: 30S ribosomal protein S17



- Molecule 48: 30S ribosomal protein S17



- Molecule 49: 30S ribosomal protein S18



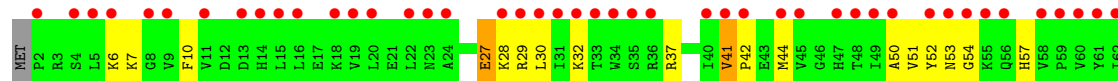
- Molecule 49: 30S ribosomal protein S18



- Molecule 50: 30S ribosomal protein S19

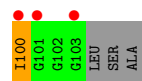
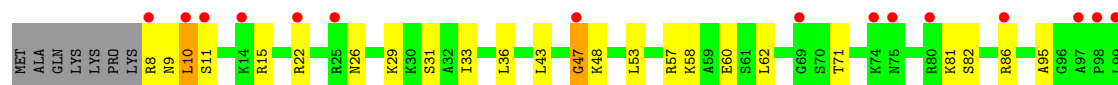


- Molecule 50: 30S ribosomal protein S19





• Molecule 51: 30S ribosomal protein S20



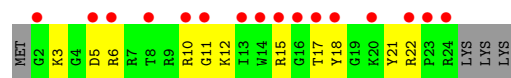
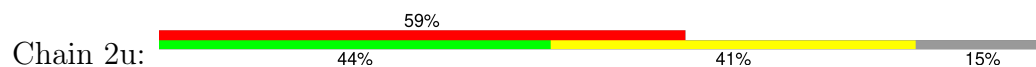
• Molecule 51: 30S ribosomal protein S20



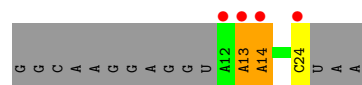
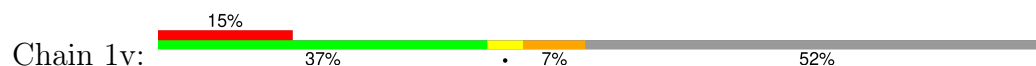
• Molecule 52: 30S ribosomal protein Thx



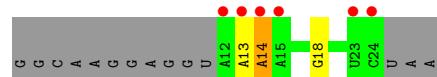
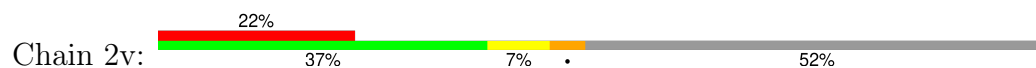
• Molecule 52: 30S ribosomal protein Thx



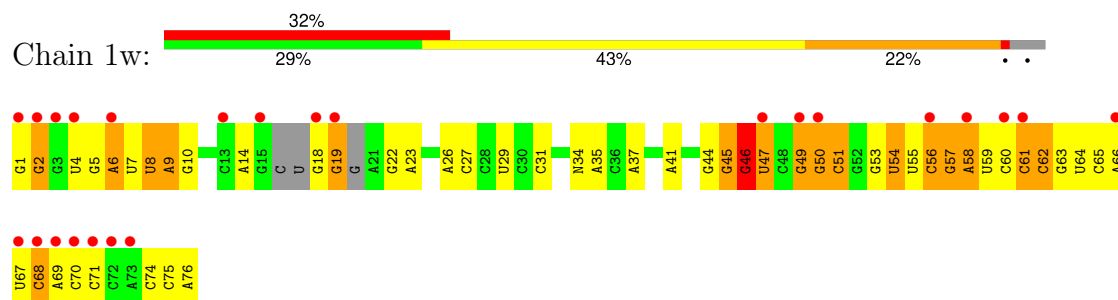
• Molecule 53: mRNA



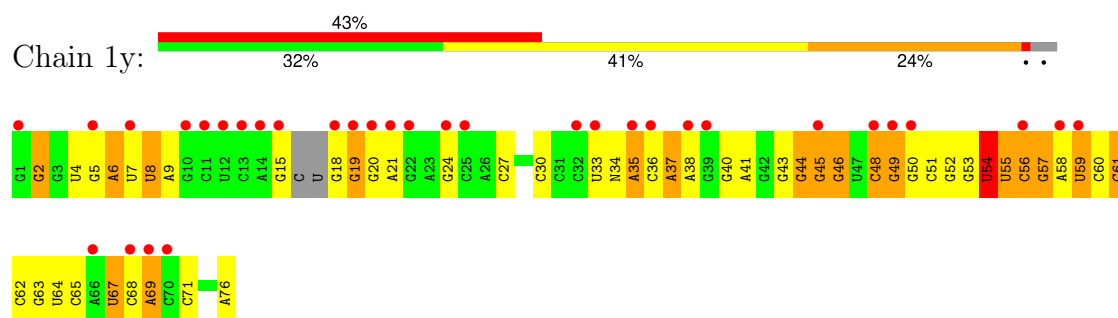
• Molecule 53: mRNA



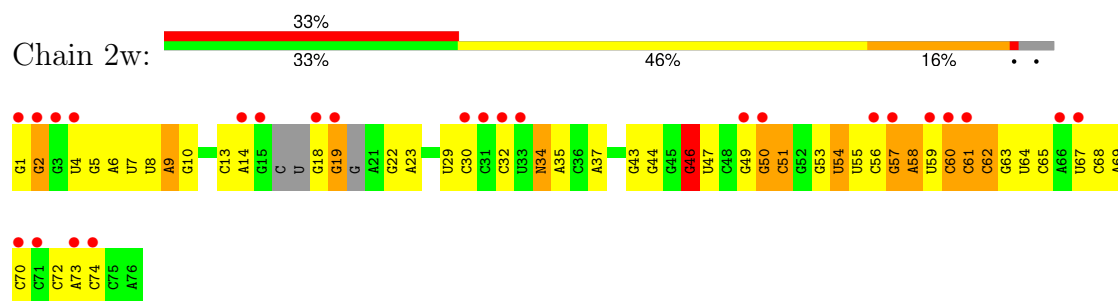
- Molecule 54: A-site and E-site tRNAs



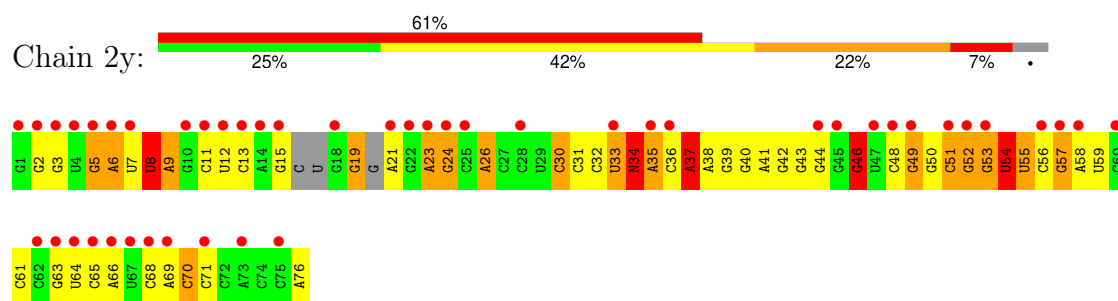
- Molecule 54: A-site and E-site tRNAs



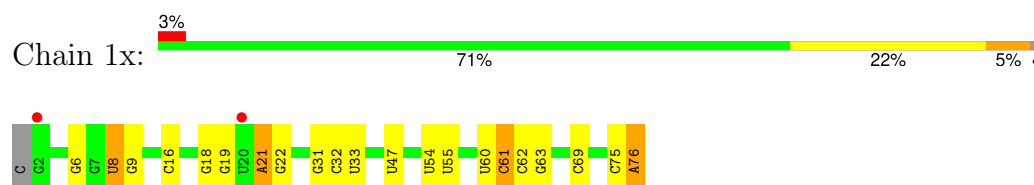
- Molecule 54: A-site and E-site tRNAs



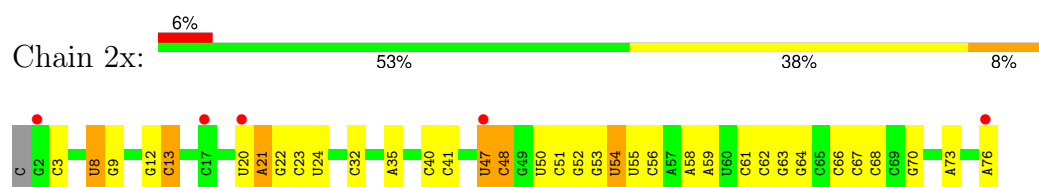
- Molecule 54: A-site and E-site tRNAs



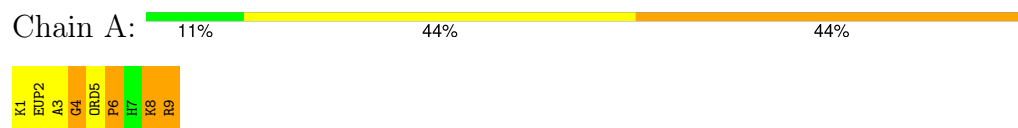
- Molecule 55: P-site tRNA



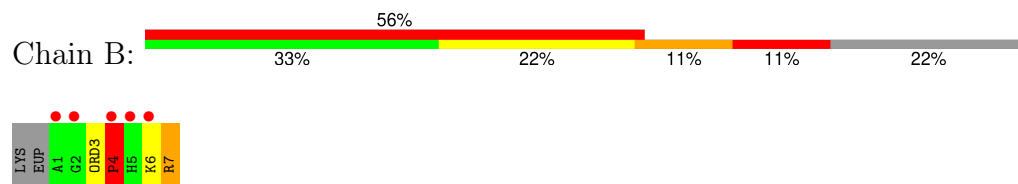
- Molecule 55: P-site tRNA



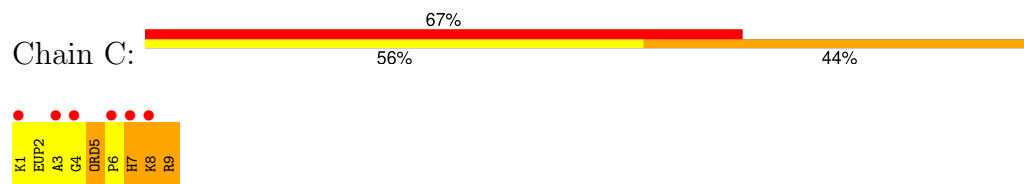
- Molecule 56: NOSO-95179 antibiotic



- Molecule 56: NOSO-95179 antibiotic



- Molecule 56: NOSO-95179 antibiotic



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.17Å 448.69Å 618.53Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	154.63 – 2.60 154.63 – 2.60	Depositor EDS
% Data completeness (in resolution range)	98.9 (154.63-2.60) 98.9 (154.63-2.60)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.24 (at 2.62Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.212 , 0.249 0.211 , 0.248	Depositor DCC
R_{free} test set	87360 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	56.9	Xtriage
Anisotropy	0.181	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 64.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	301143	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.54% 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: 2MU, K, MA6, 4OC, CM0, 2MA, 5MC, IAR, OMG, 4SU, PSU, 2MG, EUP, ORD, ZN, M2G, 5MU, 0TD, 6MZ, SF4, MG, 7MG, UR3

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	0.29	0/69009	0.46	2/107712 (0.0%)
1	2A	0.22	0/67293	0.39	1/105034 (0.0%)
2	1B	0.22	0/2882	0.40	0/4494
2	2B	0.19	0/2879	0.36	0/4487
3	1D	0.30	0/2186	0.54	0/2944
3	2D	0.24	0/2186	0.50	0/2944
4	1E	0.30	0/1592	0.54	0/2149
4	2E	0.22	0/1592	0.47	0/2149
5	1F	0.27	0/1619	0.48	0/2193
5	2F	0.20	0/1615	0.42	0/2188
6	1G	0.21	0/1448	0.44	0/1957
6	2G	0.19	0/1453	0.42	0/1963
7	1H	0.22	0/1356	0.40	0/1834
7	2H	0.18	0/1356	0.35	0/1834
8	1I	0.18	0/1112	0.39	0/1514
8	2I	0.18	0/1079	0.37	0/1475
9	1N	0.27	0/1144	0.46	0/1543
9	2N	0.18	0/1144	0.39	0/1543
10	1O	0.26	0/943	0.47	0/1269
10	2O	0.21	0/943	0.46	0/1269
11	1P	0.28	0/1152	0.49	0/1533
11	2P	0.20	0/1152	0.43	0/1533
12	1Q	0.27	0/1143	0.47	0/1527
12	2Q	0.20	0/1143	0.41	0/1527
13	1R	0.28	0/982	0.49	0/1312
13	2R	0.20	0/982	0.44	0/1312
14	1S	0.21	0/883	0.44	0/1176
14	2S	0.19	0/880	0.40	0/1172
15	1T	0.25	0/1105	0.49	0/1477
15	2T	0.21	0/1097	0.42	0/1468
16	1U	0.30	0/977	0.48	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.21	0/977	0.42	0/1301
17	1V	0.37	1/782 (0.1%)	0.50	0/1049
17	2V	0.20	0/782	0.41	0/1049
18	1W	0.30	0/897	0.48	0/1205
18	2W	0.21	0/897	0.41	0/1205
19	1X	0.28	0/764	0.54	2/1025 (0.2%)
19	2X	0.19	0/764	0.40	0/1025
20	1Y	0.24	0/819	0.50	0/1095
20	2Y	0.19	0/819	0.45	0/1095
21	1Z	0.25	0/1267	0.45	0/1717
21	2Z	0.19	0/1299	0.44	0/1763
22	10	0.28	0/662	0.55	0/881
22	20	0.20	0/662	0.45	0/881
23	11	0.29	0/762	0.45	0/1014
23	21	0.21	0/762	0.40	0/1014
24	12	0.25	0/590	0.44	0/781
24	22	0.19	0/590	0.36	0/781
25	13	0.25	0/474	0.48	0/635
25	23	0.21	0/469	0.42	0/630
26	14	0.30	0/565	0.53	0/761
26	24	0.28	0/545	0.73	2/737 (0.3%)
27	15	0.29	0/469	0.56	0/635
27	25	0.24	0/469	0.48	0/635
28	16	0.28	0/460	0.47	0/613
28	26	0.21	0/456	0.40	0/608
29	17	0.29	0/426	0.54	0/561
29	27	0.23	0/426	0.51	0/561
30	18	0.28	0/525	0.50	0/691
30	28	0.22	0/525	0.40	0/691
31	19	0.25	0/310	0.45	0/407
31	29	0.20	0/310	0.44	0/407
32	1a	0.20	1/35795 (0.0%)	0.38	0/55864
32	2a	0.19	0/35886	0.36	0/56005
33	1b	0.26	1/1881 (0.1%)	0.43	0/2542
33	2b	0.21	0/1860	0.47	0/2518
34	1c	0.18	0/1572	0.40	0/2126
34	2c	0.20	0/1566	0.39	0/2119
35	1d	0.19	0/1685	0.43	0/2262
35	2d	0.19	0/1704	0.43	0/2284
36	1e	0.20	0/1145	0.45	0/1543
36	2e	0.20	0/1149	0.46	0/1548
37	1f	0.18	0/823	0.37	0/1115
37	2f	0.19	0/829	0.37	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.17	0/1250	0.37	0/1679
38	2g	0.18	0/1254	0.38	0/1683
39	1h	0.18	0/1108	0.40	0/1494
39	2h	0.18	0/1108	0.40	0/1494
40	1i	0.20	0/1002	0.46	0/1346
40	2i	0.21	0/997	0.45	0/1343
41	1j	0.20	0/722	0.47	0/982
41	2j	0.20	0/727	0.42	0/988
42	1k	0.19	0/844	0.38	0/1145
42	2k	0.18	0/848	0.37	0/1149
43	1l	0.20	0/937	0.43	0/1260
43	2l	0.19	0/937	0.41	0/1260
44	1m	0.18	0/969	0.43	0/1302
44	2m	0.23	0/961	0.39	0/1291
45	1n	0.20	0/501	0.46	0/664
45	2n	0.19	0/501	0.43	0/664
46	1o	0.18	0/739	0.36	0/985
46	2o	0.16	0/739	0.37	0/985
47	1p	0.20	0/697	0.48	0/939
47	2p	0.19	0/693	0.44	0/935
48	1q	0.19	0/836	0.37	0/1117
48	2q	0.18	0/836	0.39	0/1117
49	1r	0.19	0/560	0.39	0/746
49	2r	0.17	0/560	0.37	0/746
50	1s	0.21	0/667	0.46	0/900
50	2s	0.27	0/661	0.55	0/893
51	1t	0.18	0/730	0.44	0/965
51	2t	0.20	0/729	0.46	0/965
52	1u	0.20	0/203	0.43	0/266
52	2u	0.20	0/203	0.44	0/266
53	1v	0.24	0/308	0.43	0/477
53	2v	0.21	0/308	0.34	0/477
54	1w	0.26	1/1600 (0.1%)	0.36	0/2482
54	1y	0.26	1/1627 (0.1%)	0.37	0/2527
54	2w	0.26	1/1600 (0.1%)	0.35	0/2482
54	2y	0.29	1/1600 (0.1%)	0.38	0/2482
55	1x	0.26	0/1725	0.39	0/2689
55	2x	0.24	0/1725	0.39	0/2689
56	A	1.60	1/43 (2.3%)	1.93	0/51
56	B	2.20	2/35 (5.7%)	1.85	1/43 (2.3%)
56	C	1.71	1/43 (2.3%)	2.56	3/51 (5.9%)
All	All	0.24	11/316879 (0.0%)	0.42	11/474354 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
26	14	0	1
26	24	0	1
33	1b	0	1
33	2b	0	1
All	All	0	4

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	1b	233	SER	C-N	7.51	1.51	1.33
56	A	6	PRO	CA-C	-6.58	1.39	1.52
56	B	4	PRO	N-CA	6.11	1.56	1.47
54	2y	8	4SU	O3'-P	6.03	1.62	1.56
17	1V	34	GLU	C-N	-5.89	1.21	1.33
56	C	6	PRO	CA-C	-5.52	1.41	1.52
54	1y	8	4SU	O3'-P	5.50	1.61	1.56
32	1a	1498	UR3	O3'-P	5.23	1.61	1.56
54	2w	8	4SU	O3'-P	5.13	1.61	1.56
56	B	4	PRO	CA-C	-5.07	1.42	1.52
54	1w	8	4SU	O3'-P	5.01	1.61	1.56

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	C	6	PRO	CA-C-N	9.01	137.92	121.70
56	C	6	PRO	C-N-CA	9.01	137.92	121.70
56	B	4	PRO	CA-N-CD	-7.00	102.19	112.00
26	24	63	TYR	N-CA-C	-6.84	101.81	111.24
1	1A	2014	G	C2'-C3'-O3'	6.62	119.42	109.50
1	2A	1992	G	C2'-C3'-O3'	6.07	118.61	109.50
26	24	54	GLY	N-CA-C	-6.05	107.41	115.40
56	C	7	HIS	CB-CG-CD2	-5.35	124.24	131.20
19	1X	94	GLY	CA-C-N	5.11	130.89	121.70
19	1X	94	GLY	C-N-CA	5.11	130.89	121.70
1	1A	1700	G	C2'-C3'-O3'	5.04	117.06	109.50

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	14	63	TYR	Peptide
33	1b	124	SER	Peptide
26	24	63	TYR	Peptide
33	2b	124	SER	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61852	0	31191	568	0
1	2A	60322	0	30425	641	0
2	1B	2577	0	1305	18	0
2	2B	2575	0	1303	36	0
3	1D	2136	0	2218	32	0
3	2D	2136	0	2218	32	0
4	1E	1559	0	1618	40	0
4	2E	1559	0	1618	29	0
5	1F	1584	0	1625	32	0
5	2F	1580	0	1619	44	0
6	1G	1423	0	1436	24	0
6	2G	1428	0	1438	43	0
7	1H	1330	0	1407	25	0
7	2H	1330	0	1407	29	0
8	1I	1097	0	1140	24	0
8	2I	1064	0	1082	21	1
9	1N	1117	0	1184	14	0
9	2N	1117	0	1184	19	0
10	1O	933	0	996	17	0
10	2O	933	0	996	24	0
11	1P	1135	0	1212	25	0
11	2P	1135	0	1212	23	0
12	1Q	1122	0	1179	21	0
12	2Q	1122	0	1179	23	0
13	1R	968	0	1033	20	0
13	2R	968	0	1033	24	0
14	1S	873	0	927	15	0
14	2S	870	0	923	15	0
15	1T	1091	0	1151	21	0
15	2T	1083	0	1136	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	1U	959	0	1019	16	0
16	2U	959	0	1019	16	0
17	1V	771	0	830	10	0
17	2V	771	0	830	13	0
18	1W	886	0	940	13	0
18	2W	886	0	940	11	0
19	1X	750	0	814	17	0
19	2X	750	0	814	18	0
20	1Y	806	0	881	15	0
20	2Y	806	0	881	18	0
21	1Z	1240	0	1240	31	0
21	2Z	1271	0	1273	26	0
22	10	653	0	674	16	0
22	20	653	0	674	12	0
23	11	755	0	826	11	0
23	21	755	0	826	14	0
24	12	588	0	643	4	0
24	22	588	0	643	6	0
25	13	469	0	518	6	0
25	23	464	0	514	8	0
26	14	552	0	533	17	0
26	24	532	0	503	18	0
27	15	455	0	465	9	0
27	25	455	0	465	9	0
28	16	453	0	473	6	0
28	26	449	0	469	7	0
29	17	418	0	467	1	0
29	27	418	0	467	12	0
30	18	517	0	582	24	0
30	28	517	0	582	22	0
31	19	307	0	335	3	0
31	29	307	0	335	7	0
32	1a	32246	0	16294	452	1
32	2a	32327	0	16339	528	0
33	1b	1846	0	1867	69	0
33	2b	1825	0	1828	65	0
34	1c	1548	0	1535	19	0
34	2c	1542	0	1517	35	0
35	1d	1655	0	1672	41	0
35	2d	1674	0	1714	47	0
36	1e	1129	0	1185	33	0
36	2e	1133	0	1191	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
37	1f	810	0	804	15	0
37	2f	816	0	808	15	0
38	1g	1231	0	1238	23	0
38	2g	1235	0	1249	27	0
39	1h	1088	0	1126	26	0
39	2h	1088	0	1126	32	0
40	1i	983	0	986	35	0
40	2i	978	0	966	24	0
41	1j	709	0	650	17	0
41	2j	714	0	672	28	0
42	1k	829	0	825	7	0
42	2k	833	0	836	17	0
43	1l	932	0	981	15	0
43	2l	932	0	981	24	0
44	1m	958	0	1002	18	0
44	2m	950	0	988	28	0
45	1n	492	0	529	16	0
45	2n	492	0	529	22	0
46	1o	728	0	760	12	0
46	2o	728	0	760	11	0
47	1p	681	0	697	13	0
47	2p	677	0	686	18	0
48	1q	823	0	891	20	0
48	2q	823	0	891	27	0
49	1r	555	0	618	9	0
49	2r	555	0	618	11	0
50	1s	652	0	662	15	0
50	2s	646	0	644	29	0
51	1t	728	0	798	16	0
51	2t	727	0	796	18	0
52	1u	199	0	208	5	0
52	2u	199	0	208	11	0
53	1v	276	0	139	3	0
53	2v	276	0	139	2	0
54	1w	1568	0	802	36	0
54	1y	1591	0	812	42	0
54	2w	1568	0	802	29	0
54	2y	1568	0	802	54	0
55	1x	1625	0	829	7	0
55	2x	1625	0	828	17	0
56	A	72	0	67	7	0
56	B	55	0	56	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	C	72	0	64	6	0
57	10	6	0	0	0	0
57	11	2	0	0	0	0
57	12	2	0	0	0	0
57	13	2	0	0	0	0
57	15	2	0	0	0	0
57	16	1	0	0	0	0
57	17	2	0	0	0	0
57	18	4	0	0	0	0
57	19	1	0	0	0	0
57	1A	1149	0	0	0	0
57	1B	36	0	0	0	0
57	1D	9	0	0	0	0
57	1E	10	0	0	0	0
57	1F	8	0	0	0	0
57	1G	5	0	0	0	0
57	1I	1	0	0	0	0
57	1N	7	0	0	0	0
57	1O	4	0	0	0	0
57	1P	4	0	0	0	0
57	1Q	5	0	0	0	0
57	1R	3	0	0	0	0
57	1S	3	0	0	0	0
57	1T	2	0	0	0	0
57	1U	6	0	0	0	0
57	1V	2	0	0	0	0
57	1W	5	0	0	0	0
57	1X	6	0	0	0	0
57	1Y	3	0	0	0	0
57	1Z	4	0	0	0	0
57	1a	314	0	0	0	0
57	1b	2	0	0	0	0
57	1d	2	0	0	0	0
57	1e	2	0	0	0	0
57	1f	1	0	0	0	0
57	1l	2	0	0	0	0
57	1m	1	0	0	0	0
57	1n	1	0	0	0	0
57	1r	1	0	0	0	0
57	1s	1	0	0	0	0
57	1t	1	0	0	0	0
57	1v	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	1w	8	0	0	0	0
57	1x	14	0	0	0	0
57	1y	6	0	0	0	0
57	20	2	0	0	0	0
57	21	2	0	0	0	0
57	23	2	0	0	0	0
57	25	3	0	0	0	0
57	26	1	0	0	0	0
57	28	3	0	0	0	0
57	29	1	0	0	0	0
57	2A	861	0	0	0	0
57	2B	21	0	0	0	0
57	2D	4	0	0	0	0
57	2E	10	0	0	0	0
57	2F	3	0	0	0	0
57	2G	1	0	0	0	0
57	2N	1	0	0	0	0
57	2O	2	0	0	0	0
57	2Q	3	0	0	0	0
57	2R	2	0	0	0	0
57	2T	4	0	0	0	0
57	2U	4	0	0	0	0
57	2V	2	0	0	0	0
57	2W	2	0	0	0	0
57	2X	3	0	0	0	0
57	2Z	1	0	0	0	0
57	2a	202	0	0	0	0
57	2d	1	0	0	0	0
57	2e	2	0	0	0	0
57	2f	2	0	0	0	0
57	2g	1	0	0	0	0
57	2i	1	0	0	0	0
57	2j	2	0	0	0	0
57	2l	3	0	0	0	0
57	2n	1	0	0	0	0
57	2q	3	0	0	0	0
57	2r	1	0	0	0	0
57	2t	1	0	0	0	0
57	2v	2	0	0	0	0
57	2x	6	0	0	0	0
57	2y	7	0	0	0	0
57	C	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	0	0
61	10	11	0	0	2	0
61	11	9	0	0	0	0
61	12	5	0	0	0	0
61	13	6	0	0	0	0
61	15	5	0	0	0	0
61	16	4	0	0	1	0
61	17	7	0	0	0	0
61	18	12	0	0	1	0
61	19	1	0	0	0	0
61	1A	2172	0	0	54	0
61	1B	71	0	0	2	0
61	1D	28	0	0	3	0
61	1E	29	0	0	2	0
61	1F	18	0	0	1	0
61	1G	7	0	0	0	0
61	1H	2	0	0	0	0
61	1I	2	0	0	0	0
61	1N	5	0	0	0	0
61	1O	8	0	0	0	0
61	1P	23	0	0	2	0
61	1Q	11	0	0	0	0
61	1R	18	0	0	2	0
61	1S	3	0	0	0	0
61	1T	10	0	0	1	0
61	1U	11	0	0	0	0
61	1V	8	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6l	1W	7	0	0	1	0
6l	1X	7	0	0	1	0
6l	1Y	4	0	0	1	0
6l	1Z	1	0	0	0	0
6l	1a	686	0	0	39	0
6l	1b	1	0	0	0	0
6l	1d	3	0	0	0	0
6l	1f	1	0	0	0	0
6l	1g	1	0	0	0	0
6l	1i	1	0	0	0	0
6l	1l	10	0	0	0	0
6l	1m	1	0	0	0	0
6l	1o	2	0	0	0	0
6l	1p	3	0	0	0	0
6l	1q	5	0	0	0	0
6l	1u	1	0	0	1	0
6l	1v	6	0	0	0	0
6l	1w	7	0	0	2	0
6l	1x	17	0	0	0	0
6l	1y	4	0	0	0	0
6l	20	5	0	0	0	0
6l	21	12	0	0	1	0
6l	22	1	0	0	0	0
6l	23	1	0	0	0	0
6l	25	4	0	0	1	0
6l	26	1	0	0	0	0
6l	27	3	0	0	0	0
6l	28	5	0	0	0	0
6l	29	1	0	0	0	0
6l	2A	1348	0	0	58	0
6l	2B	27	0	0	0	0
6l	2D	26	0	0	0	0
6l	2E	12	0	0	2	0
6l	2F	17	0	0	0	0
6l	2I	4	0	0	0	0
6l	2N	2	0	0	0	0
6l	2O	2	0	0	0	0
6l	2P	14	0	0	0	0
6l	2Q	2	0	0	0	0
6l	2R	3	0	0	0	0
6l	2T	6	0	0	0	0
6l	2U	4	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	2V	1	0	0	0	0
61	2W	5	0	0	0	0
61	2X	6	0	0	1	0
61	2Y	1	0	0	0	0
61	2Z	2	0	0	0	0
61	2a	270	0	0	13	0
61	2d	1	0	0	0	0
61	2g	1	0	0	0	0
61	2j	4	0	0	2	0
61	2l	5	0	0	2	0
61	2m	1	0	0	0	0
61	2o	1	0	0	1	0
61	2p	2	0	0	0	0
61	2q	1	0	0	0	0
61	2r	1	0	0	0	0
61	2t	2	0	0	0	0
61	2v	4	0	0	0	0
61	2w	4	0	0	0	0
61	2x	7	0	0	0	0
61	2y	19	0	0	0	0
61	C	4	0	0	0	0
All	All	301143	0	196885	3857	1

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 8.

All (3857) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1128:U:H3	1:1A:1132:A:N6	1.28	1.28
1:1A:1100:A:N6	1:1A:1151:U:H3	1.47	1.10
1:2A:2137:C:N4	1:2A:2154:G:H1	1.50	1.10
54:2y:30:C:N4	54:2y:40:G:H1	1.51	1.08
54:1w:51:C:N4	54:1w:63:G:H1	1.53	1.05
32:2a:997:U:H3	32:2a:1044:A:N6	1.54	1.05
1:1A:2146:G:H1	1:1A:2196:C:H42	1.01	0.99
54:2w:51:C:H42	54:2w:63:G:H1	1.10	0.99
32:2a:1002:G:H1	32:2a:1038:C:H42	1.01	0.98
1:1A:1128:U:O4	1:1A:1132:A:N1	1.97	0.98
1:1A:1117:G:N2	1:1A:1137:G:N7	2.11	0.97
32:2a:1089:G:H1	32:2a:1096:C:H42	0.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2138:C:H42	1:2A:2153:G:H1	1.02	0.95
1:1A:2121:U:H3	1:1A:2212:G:H1	1.02	0.94
32:2a:987:G:H1	32:2a:1218:C:N4	1.64	0.94
1:1A:2158:C:N4	1:1A:2177:G:H1	1.65	0.94
32:2a:999:C:H42	32:2a:1042:G:H1	1.15	0.94
55:2x:50:U:H3	55:2x:64:G:H1	1.04	0.93
1:1A:1104:G:H1	1:1A:1126:C:N4	1.66	0.93
1:2A:2138:C:N4	1:2A:2153:G:H1	1.68	0.92
54:2y:19:G:H1	54:2y:56:C:H42	1.16	0.92
32:2a:947:G:H1	32:2a:1234:C:H42	1.11	0.92
32:1a:201:C:H42	32:1a:216:G:H1	1.19	0.91
1:1A:2158:C:H42	1:1A:2177:G:H1	0.92	0.91
1:2A:2137:C:H42	1:2A:2154:G:H1	1.11	0.91
54:2y:5:G:H1	54:2y:68:C:H42	1.16	0.91
32:1a:998:G:H1	32:1a:1043:C:H42	0.97	0.91
36:1e:78:HIS:HE1	36:1e:143:ARG:H	1.18	0.91
1:1A:1848:G:OP1	3:1D:88:ARG:NH2	2.04	0.90
32:2a:987:G:H1	32:2a:1218:C:H42	0.91	0.90
32:2a:1002:G:H1	32:2a:1038:C:N4	1.69	0.90
32:1a:998:G:H1	32:1a:1043:C:N4	1.70	0.90
1:1A:1100:A:H61	1:1A:1151:U:H3	0.97	0.90
33:2b:185:ILE:HG22	33:2b:199:TYR:HB2	1.54	0.89
32:2a:1089:G:H1	32:2a:1096:C:N4	1.70	0.89
33:1b:185:ILE:HG22	33:1b:199:TYR:HB2	1.53	0.89
54:2w:50:G:H1	54:2w:64:U:H3	0.92	0.89
54:1y:27:C:H42	54:1y:43:G:H1	1.12	0.89
32:2a:998:G:H1	32:2a:1043:C:H42	1.16	0.89
1:1A:2146:G:H1	1:1A:2196:C:N4	1.72	0.88
22:10:10:THR:HG22	22:10:12:ASN:H	1.38	0.88
1:2A:2140:C:H42	1:2A:2151:G:H1	1.15	0.87
2:2B:22:U:H3	2:2B:61:G:H1	1.19	0.87
1:1A:927:G:H2'	1:1A:928:G:H8	1.39	0.85
10:2O:48:PRO:HB3	32:2a:1422:G:H5''	1.57	0.85
11:2P:59:LEU:HD11	30:28:10:ALA:HB2	1.58	0.85
1:1A:1128:U:N3	1:1A:1132:A:N6	2.00	0.85
1:1A:2585:C:OP1	61:1A:4209:HOH:O	1.95	0.84
1:2A:1817:G:OP1	3:2D:88:ARG:NH2	2.09	0.84
1:2A:2137:C:N3	1:2A:2154:G:N2	2.25	0.84
1:2A:2140:C:N4	1:2A:2151:G:H1	1.75	0.84
1:1A:1650:C:OP2	61:1A:4208:HOH:O	1.96	0.83
32:2a:975:A:H4'	32:2a:976:G:H5''	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:303:C:H42	1:1A:385:G:H1	1.25	0.83
54:1w:54:5MU:O2	54:1w:58:A:N7	2.11	0.82
1:2A:784:A:OP2	61:2A:3909:HOH:O	1.96	0.82
5:2F:53:THR:HG23	5:2F:55:GLY:H	1.44	0.82
1:2A:143:G:H4'	19:2X:35:THR:HG21	1.61	0.82
1:2A:1204:A:H2	1:2A:1241:A:H62	1.26	0.82
11:2P:126:VAL:HG12	11:2P:148:LEU:HD23	1.61	0.82
32:2a:407:G:H5''	35:2d:115:ARG:HG2	1.61	0.82
54:1w:6:A:N6	54:1w:67:U:O4	2.13	0.82
55:1x:8:4SU:O2	55:1x:21:A:H2	1.63	0.81
54:2y:50:G:H1	54:2y:64:U:H3	1.28	0.81
54:2w:6:A:N6	54:2w:67:U:O4	2.14	0.81
54:1w:51:C:N3	54:1w:63:G:N2	2.27	0.81
33:2b:88:ALA:HB2	33:2b:219:VAL:HG13	1.61	0.81
40:1i:50:LEU:HD13	40:1i:56:LEU:HA	1.62	0.81
36:2e:78:HIS:HE1	36:2e:143:ARG:H	1.26	0.81
1:2A:614(A):U:H4'	1:2A:614(B):G:H5'	1.62	0.81
54:2y:30:C:N3	54:2y:40:G:N2	2.26	0.81
1:2A:2365:G:N7	30:28:39:LYS:NZ	2.29	0.81
54:1y:27:C:N4	54:1y:43:G:H1	1.78	0.80
1:2A:1798:U:H5'	3:2D:259:THR:HG22	1.62	0.80
1:2A:450:G:O6	61:2A:3931:HOH:O	1.99	0.80
1:2A:2133:G:O2'	1:2A:2157:G:N2	2.15	0.80
54:2w:54:5MU:O2	54:2w:58:A:N7	2.13	0.80
1:2A:2129:C:N3	1:2A:2159:G:N2	2.29	0.80
1:1A:2149:G:H1	1:1A:2183:C:N4	1.79	0.80
1:1A:2123:G:H1	1:1A:2210:C:H42	1.30	0.80
54:1y:6:A:H61	54:1y:67:U:H3	1.27	0.79
32:1a:1030:C:H42	32:1a:1031:G:H1	1.29	0.79
54:2y:19:G:N2	54:2y:56:C:N3	2.30	0.79
54:2w:51:C:N4	54:2w:63:G:H1	1.80	0.79
48:2q:84:LEU:HD23	48:2q:87:LYS:HZ1	1.47	0.79
54:2w:53:G:H1	54:2w:61:C:H42	1.31	0.79
21:1Z:102:LEU:HD21	21:1Z:171:ILE:HD11	1.65	0.79
1:2A:2129:C:N4	1:2A:2159:G:H1	1.80	0.79
1:1A:1104:G:N2	1:1A:1126:C:N3	2.27	0.79
22:10:27:GLU:HG3	22:10:68:GLU:HA	1.64	0.79
10:1O:35:VAL:HG11	10:1O:103:ALA:HB3	1.65	0.78
50:1s:27:GLU:HB2	50:1s:28:LYS:HA	1.64	0.78
41:2j:38:ILE:HD11	41:2j:71:LEU:HD23	1.66	0.78
6:2G:47:LYS:HG3	6:2G:48:GLU:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1104:G:H1	1:1A:1126:C:H42	1.23	0.78
32:1a:1086:U:H3	32:1a:1099:G:H22	1.30	0.78
11:1P:59:LEU:HD11	30:18:10:ALA:HB2	1.66	0.78
32:1a:1196:U:H3	34:1c:162:GLN:HE22	1.29	0.78
54:1y:7:U:O2'	54:1y:49:G:OP2	2.00	0.78
32:2a:76:C:H42	32:2a:93:G:H1	1.30	0.78
1:2A:2355:C:H1'	22:20:39:ARG:HH21	1.49	0.77
54:1w:22:G:N7	54:1w:46:7MG:N2	2.31	0.77
1:2A:2138:C:N3	1:2A:2153:G:N2	2.29	0.77
1:2A:882:G:H1	1:2A:894:C:H42	1.30	0.77
54:2w:22:G:N7	54:2w:46:7MG:N2	2.30	0.77
1:1A:297:C:H2'	1:1A:298:G:H8	1.48	0.77
26:14:64:GLY:O	26:14:66:SER:N	2.16	0.77
54:1w:50:G:H1	54:1w:64:U:H3	1.28	0.77
32:2a:947:G:H1	32:2a:1234:C:N4	1.82	0.77
33:2b:69:LEU:HB3	33:2b:162:ILE:HG22	1.67	0.77
44:2m:3:ARG:NH2	44:2m:9:ILE:O	2.18	0.77
1:2A:2099:U:H3	1:2A:2190:G:H1	1.34	0.76
23:21:51:VAL:HG11	23:21:74:VAL:HG21	1.68	0.76
32:2a:1029:C:N3	32:2a:1032:G:N2	2.31	0.76
1:1A:535:C:OP1	61:1A:4210:HOH:O	2.03	0.76
9:2N:123:TYR:HH	9:2N:130:HIS:HE2	1.22	0.76
46:2o:54:ARG:HG2	46:2o:58:MET:HE2	1.67	0.76
1:1A:2136:A:N6	1:1A:2141:A:N7	2.34	0.76
6:1G:41:GLN:HB3	6:1G:43:LEU:HD13	1.67	0.76
8:1I:92:VAL:HG13	8:1I:120:ILE:HB	1.66	0.76
32:2a:1129:C:O2'	32:2a:1130:A:N7	2.19	0.76
32:2a:1129:C:OP1	40:2i:16:ARG:NH1	2.19	0.76
51:1t:57:ARG:HH12	51:1t:100:ILE:HD12	1.51	0.76
1:1A:2149:G:H1	1:1A:2183:C:H42	1.32	0.76
33:2b:76:GLN:HB2	33:2b:208:ILE:HG13	1.66	0.76
5:1F:53:THR:HG23	5:1F:55:GLY:H	1.51	0.75
54:1y:50:G:H1	54:1y:64:U:H3	1.33	0.75
4:2E:119:ARG:HD2	4:2E:160:TYR:HB2	1.69	0.75
1:2A:2287:A:H62	1:2A:2344:U:H3	1.35	0.75
55:2x:3:C:H42	55:2x:70:G:H1	1.34	0.75
3:1D:242:ARG:NH1	61:1D:3102:HOH:O	2.19	0.75
1:2A:1689:A:H62	1:2A:1698:A:H2	1.31	0.75
32:2a:998:G:H1	32:2a:1043:C:N4	1.84	0.75
32:2a:1026:G:O6	32:2a:1036:G:N2	2.19	0.75
32:2a:1029:C:N4	32:2a:1032:G:H1	1.83	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:664:G:H22	32:1a:741:G:H1	1.35	0.75
32:1a:1131:G:OP1	40:1i:20:ARG:NH2	2.16	0.75
32:2a:999:C:N4	32:2a:1042:G:H1	1.84	0.75
11:2P:87:ASP:O	11:2P:90:ARG:NH1	2.20	0.74
19:2X:57:LEU:HD11	19:2X:78:LYS:HE2	1.69	0.74
54:2y:5:G:H1	54:2y:68:C:N4	1.84	0.74
54:1w:4:U:H3	54:1w:69:A:H61	1.34	0.74
1:1A:2440:G:N7	61:1A:4256:HOH:O	2.18	0.74
1:2A:195:A:N7	61:2A:3914:HOH:O	2.19	0.74
32:1a:135:C:OP2	61:1a:3428:HOH:O	2.05	0.74
32:1a:1319:A:N3	61:1a:3444:HOH:O	2.20	0.74
54:2y:26:A:N6	54:2y:44:G:C5	2.56	0.74
1:1A:805:C:OP2	61:1A:4239:HOH:O	2.06	0.74
4:2E:47:VAL:HG11	4:2E:86:PRO:HD2	1.69	0.74
5:2F:185:ASP:HA	5:2F:188:ARG:HD3	1.70	0.74
15:2T:65:LYS:HE3	15:2T:67:SER:HB2	1.69	0.74
32:1a:972:C:O2'	41:1j:55:LYS:O	2.05	0.74
41:2j:49:VAL:HG23	45:2n:41:ARG:HB2	1.70	0.74
1:1A:2849:G:H5'	13:1R:46:GLY:HA2	1.69	0.74
1:1A:791:G:OP1	61:1A:4240:HOH:O	2.06	0.74
43:1l:28:LYS:HD3	43:1l:62:SER:HB2	1.70	0.73
1:2A:955:C:OP1	12:2Q:87:LYS:NZ	2.20	0.73
1:2A:2657:A:O3'	7:2H:160:LYS:NZ	2.19	0.73
1:1A:2831:A:OP2	61:1A:4238:HOH:O	2.04	0.73
54:1y:30:C:H42	54:1y:40:G:H1	1.36	0.73
1:2A:2137:C:N4	1:2A:2154:G:N1	2.32	0.73
2:2B:20:C:N4	2:2B:63:G:O6	2.19	0.73
41:1j:49:VAL:HG23	45:1n:41:ARG:HB2	1.71	0.73
32:2a:363:A:OP2	43:2l:34:ARG:NH1	2.21	0.73
1:1A:1829:U:H5'	3:1D:259:THR:HG22	1.71	0.73
7:1H:86:GLU:OE2	7:1H:132:ARG:NH2	2.22	0.73
43:1l:70:ILE:HG12	43:1l:100:ILE:HD12	1.69	0.73
40:1i:128:ARG:NH2	55:1x:33:U:OP2	2.22	0.73
1:2A:730:C:OP2	61:2A:3901:HOH:O	2.06	0.73
54:1y:18:G:H1	54:1y:55:PSU:H1'	1.53	0.73
32:1a:975:A:H4'	32:1a:976:G:H5''	1.70	0.73
1:2A:2788:C:OP1	4:2E:61:ARG:NH2	2.19	0.73
32:2a:532:A:N1	34:2c:156:ARG:NH1	2.35	0.73
1:1A:2614:A:OP1	61:1A:4241:HOH:O	2.06	0.72
33:1b:88:ALA:HB2	33:1b:219:VAL:HG13	1.70	0.72
8:1I:130:TYR:HB3	8:1I:138:ILE:HB	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:693:G:H21	54:2y:37:6MZ:H2	1.53	0.72
54:2y:42:G:H2'	54:2y:43:G:H8	1.55	0.72
39:1h:10:LEU:HD22	39:1h:83:ILE:HD11	1.72	0.72
32:2a:1402:4OC:HM22	32:2a:1403:C:H5'	1.70	0.72
1:1A:2147:G:N1	1:1A:2194:U:OP1	2.18	0.72
15:1T:112:ARG:HG3	15:1T:115:ARG:HH21	1.54	0.72
1:2A:2129:C:N4	1:2A:2159:G:N1	2.37	0.72
32:2a:1029:C:N4	32:2a:1032:G:N1	2.37	0.72
54:1w:51:C:H42	54:1w:63:G:H1	0.77	0.72
7:2H:86:GLU:OE2	7:2H:132:ARG:NH2	2.23	0.72
1:2A:2280:G:N7	61:2A:3970:HOH:O	2.22	0.71
1:2A:2805:G:H2'	1:2A:2807:G:C8	2.25	0.71
32:1a:407:G:H5''	35:1d:115:ARG:HG2	1.72	0.71
36:2e:50:GLU:HB2	36:2e:53:LEU:HD13	1.73	0.71
1:2A:2096:U:H3	1:2A:2193:G:H1	1.37	0.71
8:2I:124:GLY:H	8:2I:144:VAL:HG23	1.55	0.71
32:2a:987:G:N2	32:2a:1218:C:N3	2.34	0.71
19:1X:57:LEU:HD11	19:1X:78:LYS:HE2	1.72	0.71
33:2b:93:VAL:HG11	33:2b:97:TRP:HD1	1.56	0.71
43:1l:117:ARG:HG2	43:1l:122:THR:HB	1.72	0.71
1:2A:761:A:OP1	61:2A:3901:HOH:O	2.08	0.71
32:2a:770:C:OP1	61:2a:1907:HOH:O	2.08	0.71
10:2O:35:VAL:HG11	10:2O:103:ALA:HB3	1.70	0.71
21:2Z:141:VAL:HG13	21:2Z:142:SER:H	1.56	0.71
54:2y:19:G:H1	54:2y:56:C:N4	1.89	0.71
1:2A:2060:A:N3	61:2A:3976:HOH:O	2.24	0.71
32:2a:1002:G:N2	32:2a:1038:C:N3	2.39	0.71
36:2e:152:ARG:NH2	39:2h:107:LEU:O	2.23	0.71
32:1a:1210:C:O2'	61:1a:3429:HOH:O	2.07	0.71
32:2a:117:G:OP2	61:2a:1908:HOH:O	2.08	0.71
54:1y:19:G:H5''	54:1y:57:G:H1	1.55	0.70
1:1A:1100:A:N6	1:1A:1151:U:N3	2.25	0.70
1:1A:2158:C:N3	1:1A:2177:G:N2	2.39	0.70
1:2A:2042:A:OP1	61:2A:3932:HOH:O	2.08	0.70
32:2a:134:A:H61	47:2p:25:ARG:HH12	1.39	0.70
33:2b:78:GLN:HE22	33:2b:95:GLN:HG2	1.56	0.70
33:2b:119:GLU:HG3	33:2b:153:ARG:HH12	1.57	0.70
41:2j:98:ILE:O	61:2j:8101:HOH:O	2.09	0.70
1:1A:2162:C:H42	1:1A:2172:U:H3	1.39	0.70
39:2h:10:LEU:HD22	39:2h:83:ILE:HD11	1.73	0.70
1:2A:947:G:OP2	61:2A:3933:HOH:O	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:74:LYS:HD2	33:2b:166:ASP:HB2	1.74	0.70
18:1W:92:ARG:NH1	61:1W:3101:HOH:O	2.17	0.70
2:2B:5:C:H42	2:2B:116:G:H1	1.39	0.70
41:2j:8:LEU:HB3	41:2j:96:ILE:HG22	1.72	0.70
1:1A:1115:A:H1'	1:1A:1142:A:H4'	1.72	0.70
5:1F:101:LEU:O	5:1F:106:ARG:NH1	2.25	0.70
40:1i:31:GLN:HE21	40:1i:36:TYR:HD1	1.40	0.70
5:2F:154:VAL:HG22	5:2F:191:ARG:HB2	1.74	0.70
32:2a:664:G:H22	32:2a:741:G:H1	1.38	0.70
41:2j:5:ARG:N	61:2j:8102:HOH:O	2.25	0.70
50:2s:50:ALA:HB1	50:2s:57:HIS:HB3	1.74	0.70
1:1A:2128:G:H1	1:1A:2205:C:H42	1.40	0.70
32:1a:1027:C:C2	32:1a:1034:G:N2	2.59	0.70
54:1w:31:C:H4'	56:A:9:IAR:OXT	1.91	0.70
1:2A:1695:G:N7	3:2D:14:ARG:NH2	2.39	0.70
1:2A:2150:U:H2'	1:2A:2151:G:H8	1.56	0.70
39:2h:12:ARG:HD2	39:2h:26:VAL:HG12	1.74	0.70
6:1G:47:LYS:HG3	6:1G:48:GLU:H	1.57	0.69
32:1a:812:C:N3	61:1a:3451:HOH:O	2.24	0.69
35:1d:98:GLU:OE1	35:1d:103:ASN:ND2	2.23	0.69
1:2A:2104:G:H1	1:2A:2185:C:H42	1.40	0.69
32:2a:289:G:OP2	61:2a:1908:HOH:O	2.09	0.69
1:1A:1151:U:H2'	1:1A:1152:G:H8	1.57	0.69
1:1A:2255:U:OP1	61:1A:4242:HOH:O	2.10	0.69
1:2A:1147:C:H2'	1:2A:1148:A:H8	1.57	0.69
1:1A:2157:A:N6	1:1A:2178:G:O2'	2.25	0.69
32:1a:1054:C:OP1	61:1a:3411:HOH:O	2.10	0.69
54:1y:30:C:N4	54:1y:40:G:H1	1.90	0.69
1:2A:783:A:OP2	61:2A:3909:HOH:O	2.08	0.69
32:2a:427:U:OP1	35:2d:13:ARG:NH1	2.23	0.69
3:1D:8:PRO:HB3	3:1D:14:ARG:HG2	1.75	0.69
32:1a:1030:C:N3	32:1a:1031:G:N2	2.40	0.69
1:2A:1017:G:N7	61:2A:3979:HOH:O	2.24	0.69
32:2a:64:G:H4'	32:2a:65:U:H3'	1.74	0.69
1:2A:1448:G:N7	61:2A:3992:HOH:O	2.26	0.69
41:2j:25:GLU:OE2	41:2j:29:ARG:NH1	2.25	0.69
12:2Q:34:LEU:HB2	12:2Q:118:LEU:HD22	1.75	0.69
32:1a:1435:G:H2'	32:1a:1436:U:C6	2.28	0.69
1:2A:1627:G:OP1	61:2A:3934:HOH:O	2.09	0.69
1:2A:2049:G:N7	61:2A:3989:HOH:O	2.25	0.69
32:2a:539:A:OP2	43:2l:115:LYS:NZ	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:661:G:H1	32:2a:744:C:H42	1.40	0.69
32:2a:673:G:H2'	32:2a:674:G:C8	2.27	0.69
32:2a:1326:C:OP2	52:2u:15:ARG:NH1	2.26	0.69
48:2q:9:VAL:HG12	48:2q:56:VAL:HG22	1.74	0.69
1:1A:455:A:OP1	61:1A:4245:HOH:O	2.11	0.69
43:1l:53:ARG:HG3	43:1l:93:LEU:HD21	1.74	0.69
41:1j:5:ARG:HD3	41:1j:71:LEU:HD11	1.73	0.69
1:2A:1818:U:H2'	3:2D:157:ARG:HD2	1.73	0.69
1:1A:2071:G:N7	61:1A:4290:HOH:O	2.26	0.68
32:2a:1273:G:H3'	32:2a:1274:G:H8	1.58	0.68
33:2b:76:GLN:HE21	33:2b:206:ASP:HA	1.58	0.68
1:1A:239:G:OP2	30:18:13:ARG:NH2	2.26	0.68
32:1a:1008:C:N3	32:1a:1021:G:O6	2.26	0.68
52:1u:17:THR:O	52:1u:22:ARG:NH1	2.26	0.68
32:1a:488:C:OP2	61:1a:3430:HOH:O	2.10	0.68
32:1a:1385:G:N7	61:1a:3454:HOH:O	2.25	0.68
1:1A:211:A:OP2	61:1A:4243:HOH:O	2.11	0.68
5:1F:185:ASP:HA	5:1F:188:ARG:HD3	1.75	0.68
32:1a:1129:C:H5''	40:1i:16:ARG:HH12	1.57	0.68
21:2Z:102:LEU:HD21	21:2Z:171:ILE:HD11	1.75	0.68
32:2a:201:C:H42	32:2a:216:G:H1	1.40	0.68
1:2A:994:C:OP1	16:2U:53:ARG:NH2	2.27	0.68
13:2R:24:GLN:HE22	13:2R:36:THR:HG21	1.58	0.68
15:1T:60:THR:HG22	15:1T:77:PRO:HA	1.76	0.68
32:1a:1004:A:H5''	32:1a:1024:G:H22	1.59	0.68
1:2A:1024:G:OP2	61:2A:3935:HOH:O	2.12	0.68
1:2A:2822:G:OP2	61:2A:3925:HOH:O	2.11	0.68
32:2a:559:A:H4'	32:2a:560:U:H3'	1.73	0.68
1:1A:2624:C:OP2	27:15:2:ALA:N	2.27	0.68
32:1a:1006:C:H42	32:1a:1023:G:H1	1.40	0.68
34:1c:58:GLU:HB3	41:1j:92:THR:HG21	1.75	0.68
1:2A:2819:G:N7	61:2A:3994:HOH:O	2.26	0.68
32:2a:997:U:H3	32:2a:1044:A:H61	0.77	0.68
33:2b:178:ARG:HH12	39:2h:68:ARG:HH22	1.41	0.68
1:1A:1748:A:OP2	61:1A:4244:HOH:O	2.11	0.68
32:1a:159:G:O2'	32:1a:161:A:N7	2.27	0.68
32:1a:962:C:H5''	56:A:3:ALA:HB3	1.75	0.68
1:1A:829:A:N1	61:1A:4294:HOH:O	2.27	0.67
32:2a:771:G:N7	61:2a:1925:HOH:O	2.27	0.67
32:2a:998:G:N2	32:2a:1043:C:N3	2.38	0.67
5:2F:103:LYS:HA	5:2F:106:ARG:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:406:G:H5'	35:1d:5:ILE:HD11	1.75	0.67
38:1g:78:ARG:NH1	38:1g:154:TYR:O	2.27	0.67
32:2a:692:U:O2'	32:2a:694:A:N7	2.21	0.67
4:1E:77:ILE:HD13	4:1E:195:LEU:HD11	1.74	0.67
38:1g:78:ARG:HG2	38:1g:79:ARG:H	1.60	0.67
48:2q:53:LEU:HD23	48:2q:82:MET:HE1	1.77	0.67
54:2y:12:U:O4	54:2y:23:A:N1	2.27	0.67
32:1a:501:C:OP1	43:1l:117:ARG:NH2	2.27	0.67
32:1a:604:G:N3	61:1a:3466:HOH:O	2.27	0.67
32:1a:966:M2G:N7	61:1a:3464:HOH:O	2.27	0.67
1:2A:1021:A:H62	1:2A:1141:U:H3	1.43	0.67
1:2A:2206:G:H5''	1:2A:2207:G:N7	2.10	0.67
32:2a:542:G:OP1	35:2d:10:ARG:NH2	2.26	0.67
34:2c:79:ARG:H	34:2c:82:GLU:HB3	1.58	0.67
33:1b:76:GLN:HE21	33:1b:206:ASP:HA	1.59	0.67
1:2A:1153:C:OP1	16:2U:92:ARG:NH2	2.27	0.67
42:2k:48:ILE:O	42:2k:50:TYR:N	2.25	0.67
1:2A:668:G:H5'	1:2A:669:G:OP2	1.94	0.67
32:2a:974:A:OP2	45:2n:29:ARG:NH2	2.27	0.67
1:1A:1441:A:OP1	61:1A:4208:HOH:O	2.13	0.67
10:2O:115:VAL:HG13	10:2O:121:VAL:HG21	1.77	0.67
32:2a:1070:U:H2'	32:2a:1071:C:H6	1.60	0.67
40:2i:50:LEU:HD13	40:2i:56:LEU:HA	1.77	0.67
48:2q:6:LEU:HD13	48:2q:71:PHE:HE2	1.59	0.67
30:18:6:THR:HG22	30:18:63:PRO:HD2	1.76	0.67
1:2A:987:G:O2'	1:2A:1000:A:N3	2.28	0.67
1:2A:2343:C:HO2'	1:2A:2373:G:HO2'	1.32	0.67
39:2h:69:ARG:NH1	39:2h:75:ARG:O	2.27	0.67
1:1A:929:G:H1	1:1A:940:C:H42	1.44	0.66
2:2B:106:G:H5'	21:2Z:31:ARG:HG2	1.76	0.66
17:2V:43:GLU:OE1	17:2V:43:GLU:N	2.27	0.66
50:2s:27:GLU:HB2	50:2s:28:LYS:HD3	1.76	0.66
32:1a:567:G:N3	61:1a:3468:HOH:O	2.28	0.66
33:1b:127:ILE:HD12	33:1b:130:ARG:HD3	1.77	0.66
44:1m:3:ARG:NH2	44:1m:9:ILE:O	2.29	0.66
19:2X:60:ARG:HH22	29:27:47:ARG:HH12	1.43	0.66
32:2a:742:G:OP2	46:2o:35:ARG:NH2	2.26	0.66
34:2c:142:MET:HG3	34:2c:170:GLN:HB3	1.77	0.66
32:1a:363:A:OP2	43:1l:34:ARG:NH1	2.27	0.66
32:1a:437:U:H5'	35:1d:155:LEU:HD21	1.76	0.66
15:2T:41:ARG:NH2	32:2a:346:G:OP1	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:61:LYS:NZ	35:2d:72:GLU:OE1	2.29	0.66
43:2l:53:ARG:HG3	43:2l:93:LEU:HD21	1.78	0.66
1:1A:2564:2MU:OP2	61:1A:4246:HOH:O	2.13	0.66
32:1a:1518:MA6:N6	32:1a:1519:MA6:H103	2.10	0.66
1:2A:1124:C:OP1	61:2A:3937:HOH:O	2.13	0.66
15:2T:39:ARG:NH2	32:2a:345:C:OP2	2.29	0.66
32:2a:455:C:H42	32:2a:476:G:H1	1.43	0.66
32:2a:1027:C:C4	32:2a:1034:G:O6	2.48	0.66
51:2t:43:LEU:O	51:2t:47:GLY:N	2.19	0.66
1:1A:2124:U:H3	1:1A:2209:G:H1	1.42	0.66
1:2A:1420:U:O2'	1:2A:1421:G:OP1	2.13	0.66
1:1A:2227:G:H3'	1:1A:2228:G:C8	2.30	0.66
2:1B:21:G:N7	61:1B:303:HOH:O	2.28	0.66
20:1Y:102:CYS:SG	20:1Y:103:GLY:N	2.59	0.66
1:2A:483:A:O2'	20:2Y:49:VAL:O	2.10	0.66
32:2a:572:A:OP1	61:2a:1910:HOH:O	2.13	0.66
54:2w:32:C:OP1	56:C:1:LYS:N	2.28	0.66
23:11:51:VAL:HG11	23:11:74:VAL:HG21	1.78	0.66
32:1a:949:A:OP1	61:1a:3433:HOH:O	2.14	0.66
36:1e:110:LEU:HD13	36:1e:118:ILE:HG21	1.78	0.66
5:2F:101:LEU:O	5:2F:106:ARG:NH1	2.28	0.66
32:2a:1310:G:H1	32:2a:1327:C:H42	1.44	0.66
1:1A:2153:G:H5''	1:1A:2154:U:H3'	1.78	0.66
4:1E:36:ARG:NH1	4:1E:85:ASN:OD1	2.28	0.66
4:1E:119:ARG:HD2	4:1E:160:TYR:HB2	1.77	0.66
5:1F:157:VAL:HB	5:1F:194:MET:HG2	1.78	0.66
32:1a:373:A:OP2	61:1a:3432:HOH:O	2.13	0.66
32:1a:1505:G:OP1	61:1a:3409:HOH:O	2.14	0.66
1:2A:1780:A:OP1	61:2A:3939:HOH:O	2.13	0.66
32:2a:1316:G:H5''	45:2n:17:LYS:HE3	1.78	0.66
2:1B:48:A:H4'	14:1S:95:HIS:HD2	1.61	0.66
25:13:8:LEU:HG	25:13:31:LEU:HD23	1.78	0.66
41:2j:47:PHE:N	41:2j:63:PHE:O	2.25	0.66
15:1T:49:VAL:HG12	15:1T:63:VAL:HG22	1.78	0.66
32:1a:148:G:H2'	32:1a:149:A:H8	1.61	0.66
54:1y:51:C:H2'	54:1y:52:G:H8	1.60	0.66
1:2A:1019:U:H3	1:2A:1142(A):A:H62	1.44	0.66
32:2a:1396:A:OP2	61:2a:1909:HOH:O	2.13	0.65
33:2b:178:ARG:HH22	39:2h:74:PRO:HB3	1.60	0.65
48:2q:84:LEU:HA	48:2q:87:LYS:HZ3	1.61	0.65
1:1A:2148:A:N6	1:1A:2184:G:O2'	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:12:1:MET:HE2	24:12:5:GLU:HB3	1.79	0.65
36:1e:78:HIS:CE1	36:1e:143:ARG:H	2.09	0.65
51:2t:57:ARG:HH12	51:2t:100:ILE:HD12	1.61	0.65
1:1A:1695:C:OP1	61:1A:4235:HOH:O	2.14	0.65
32:1a:944:G:OP1	61:1a:3431:HOH:O	2.12	0.65
33:1b:80:ILE:HD11	33:1b:212:GLN:HA	1.79	0.65
1:1A:542:C:OP1	27:15:16:ARG:NH2	2.29	0.65
10:1O:48:PRO:HB3	32:1a:1422:G:H5''	1.78	0.65
1:2A:2110:G:H3'	1:2A:2111:C:H5'	1.78	0.65
5:2F:181:LEU:O	5:2F:205:ARG:NH2	2.30	0.65
32:2a:7:G:O2'	36:2e:120:THR:O	2.15	0.65
55:2x:40:C:H2'	55:2x:41:C:H6	1.62	0.65
22:10:4:LYS:NZ	61:10:201:HOH:O	2.24	0.65
1:2A:882:G:H1	1:2A:894:C:N4	1.95	0.65
32:2a:1029:C:C4	32:2a:1032:G:N1	2.63	0.65
32:2a:1047:G:H5''	45:2n:4:LYS:HD3	1.78	0.65
32:2a:1368:G:OP1	40:2i:111:ARG:NH2	2.28	0.65
32:1a:522:C:OP1	61:1a:3434:HOH:O	2.14	0.65
1:2A:1796:U:H2'	1:2A:1797:C:C6	2.31	0.65
1:2A:1812:A:OP2	61:2A:3936:HOH:O	2.13	0.65
17:2V:40:LEU:HB2	17:2V:46:VAL:HG12	1.79	0.65
32:2a:838:G:H1	32:2a:848:C:H42	1.42	0.65
32:2a:1086:U:H3	32:2a:1099:G:H22	1.43	0.65
1:1A:1219:A:H4'	1:1A:1220:U:OP1	1.96	0.65
1:1A:2176:G:C2	1:1A:2177:G:H1'	2.32	0.65
3:1D:125:ILE:HB	37:1f:81:ILE:HD11	1.79	0.65
13:2R:67:LEU:HD13	13:2R:76:VAL:HG21	1.78	0.65
35:2d:50:ARG:NH1	35:2d:51:PRO:O	2.29	0.65
38:2g:78:ARG:HG2	38:2g:79:ARG:H	1.61	0.65
8:1I:92:VAL:HG11	8:1I:144:VAL:HG11	1.79	0.65
32:1a:266:G:H5''	32:1a:268:C:H41	1.61	0.65
32:1a:1370:G:N7	61:1a:3472:HOH:O	2.28	0.65
39:1h:14:ARG:NH1	39:1h:83:ILE:O	2.30	0.65
54:2y:30:C:H42	54:2y:40:G:H1	0.75	0.65
54:2y:49:G:O6	54:2y:65:C:N3	2.30	0.65
10:1O:97:ARG:NH1	32:1a:339:C:OP2	2.30	0.65
1:2A:956:G:O6	61:2A:3940:HOH:O	2.13	0.65
1:2A:2394:C:N3	54:2y:76:A:O2'	2.29	0.65
1:2A:2879:C:OP2	61:2A:3941:HOH:O	2.14	0.65
32:2a:17:U:H2'	32:2a:18:C:C6	2.32	0.65
1:1A:2331:G:H1	14:1S:3:ARG:HA	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1R:67:LEU:HD13	13:1R:76:VAL:HG21	1.79	0.64
1:2A:1170:G:O6	1:2A:1180:C:N4	2.29	0.64
10:2O:97:ARG:NH1	32:2a:339:C:OP2	2.28	0.64
32:2a:1257:U:O4	45:2n:17:LYS:NZ	2.30	0.64
4:1E:28:ALA:HB3	4:1E:93:VAL:HG12	1.80	0.64
32:1a:193:C:H2'	32:1a:194:C:H6	1.62	0.64
1:2A:652(A):A:H3'	1:2A:652(B):A:H5''	1.77	0.64
5:2F:157:VAL:HB	5:2F:194:MET:HG2	1.79	0.64
23:21:50:ARG:HG2	23:21:59:THR:HG22	1.78	0.64
1:1A:271:U:H1'	8:1I:50:ARG:HH22	1.63	0.64
32:1a:858:G:N7	61:1a:3476:HOH:O	2.30	0.64
33:1b:84:GLU:HB3	33:1b:219:VAL:HG21	1.78	0.64
1:1A:611:U:H2'	1:1A:612:C:C6	2.31	0.64
32:2a:1223:C:H5''	32:2a:1224:G:H5''	1.80	0.64
50:2s:41:VAL:HG12	50:2s:44:MET:HG3	1.78	0.64
54:2y:26:A:C6	54:2y:44:G:C6	2.86	0.64
1:1A:297:C:H2'	1:1A:298:G:C8	2.32	0.64
32:1a:373:A:H2'	32:1a:374:A:H8	1.62	0.64
1:1A:927:G:H2'	1:1A:928:G:C8	2.27	0.64
1:1A:1216:G:N7	61:1A:4303:HOH:O	2.29	0.64
4:2E:77:ILE:HD13	4:2E:195:LEU:HD13	1.78	0.64
1:1A:1060:U:OP2	61:1A:4247:HOH:O	2.15	0.64
1:2A:2206:G:H3'	1:2A:2207:G:C8	2.33	0.64
32:2a:1000:U:H3	32:2a:1041:A:H61	1.45	0.64
55:2x:51:C:H42	55:2x:63:G:H1	1.44	0.64
1:1A:2156:A:O2'	1:1A:2157:A:OP1	2.15	0.64
1:1A:2804:C:H2'	1:1A:2805:G:H8	1.61	0.64
32:1a:673:G:H2'	32:1a:674:G:C8	2.33	0.64
46:1o:25:THR:HG21	46:1o:70:LEU:HB2	1.80	0.64
43:2l:117:ARG:HG2	43:2l:122:THR:HB	1.79	0.64
1:1A:2205:C:H2'	1:1A:2206:G:H8	1.63	0.64
1:1A:2155:G:HO2'	1:1A:2179:G:H1	1.46	0.64
32:1a:1027:C:N4	32:1a:1034:G:C6	2.65	0.64
54:1y:44:G:H3'	54:1y:45:G:H8	1.62	0.64
1:2A:72:U:OP1	61:2A:3942:HOH:O	2.15	0.64
8:2I:72:LEU:HD21	8:2I:107:VAL:HG11	1.80	0.64
1:1A:1103:A:N6	1:1A:1133:G:OP2	2.31	0.63
1:1A:2162:C:N3	1:1A:2173:G:O6	2.31	0.63
1:1A:2800:C:H1'	4:1E:62:PRO:HG3	1.79	0.63
33:1b:80:ILE:HG12	33:1b:215:LEU:HD23	1.79	0.63
1:2A:1530:C:O2'	1:2A:1531:C:O5'	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1971:A:OP1	61:2A:3943:HOH:O	2.15	0.63
1:2A:2839:G:H5'	13:2R:46:GLY:HA2	1.80	0.63
32:2a:297:G:N2	32:2a:300:A:OP2	2.31	0.63
1:1A:501:U:OP2	61:1A:4250:HOH:O	2.16	0.63
1:1A:2658:C:OP2	1:1A:2745:G:O2'	2.16	0.63
46:1o:74:ASP:HB3	46:1o:77:ARG:HB2	1.79	0.63
1:2A:1015:G:H2'	1:2A:1016:G:H8	1.61	0.63
32:2a:1105:A:H2'	32:2a:1106:G:H8	1.63	0.63
1:1A:278:G:O6	61:1A:4248:HOH:O	2.15	0.63
22:10:11:ARG:O	22:10:14:ARG:NH2	2.30	0.63
36:1e:152:ARG:NH2	39:1h:107:LEU:O	2.30	0.63
40:2i:46:ALA:HB2	40:2i:74:ILE:HG23	1.80	0.63
54:1w:62:C:H2'	54:1w:63:G:C8	2.34	0.63
1:2A:1803:A:O2'	3:2D:259:THR:HG21	1.98	0.63
1:2A:2317:C:N4	1:2A:2318:G:O6	2.31	0.63
32:1a:56:U:H2'	32:1a:57:G:C8	2.33	0.63
54:1y:6:A:N6	54:1y:67:U:H3	1.93	0.63
32:2a:1133:G:H1	32:2a:1141:C:H42	1.46	0.63
39:2h:49:GLU:OE2	39:2h:62:TYR:OH	2.07	0.63
2:1B:66:A:H61	2:1B:108:U:H2'	1.61	0.63
32:1a:584:G:H5'	48:1q:91:ARG:HH22	1.63	0.63
32:1a:943:U:H1'	40:1i:124:GLN:HE22	1.64	0.63
32:1a:1030:C:N4	32:1a:1031:G:H1	1.97	0.63
53:1v:13:A:O2'	53:1v:14:A:OP1	2.15	0.63
54:1y:19:G:N2	54:1y:56:C:N3	2.47	0.63
32:2a:426:G:OP1	35:2d:38:TYR:OH	2.15	0.63
32:2a:1028:C:H42	32:2a:1033:G:H1	1.45	0.63
33:2b:15:VAL:HG21	33:2b:213:LEU:HD13	1.80	0.63
37:2f:60:PHE:HE2	49:2r:78:LEU:HD21	1.64	0.63
1:1A:525:G:N7	61:1A:4316:HOH:O	2.31	0.63
1:1A:1140:U:N3	1:1A:1143:U:OP2	2.32	0.63
1:1A:1218:G:N1	1:1A:1221:G:OP2	2.28	0.63
12:1Q:85:LYS:HG2	22:10:7:LEU:HB3	1.81	0.63
1:2A:1786:A:H1'	1:2A:1938:A:N6	2.14	0.63
1:2A:2882:A:OP1	13:2R:96:ARG:NH1	2.27	0.63
38:1g:69:VAL:HG21	38:1g:104:LEU:HD11	1.81	0.63
1:2A:2171:A:N3	1:2A:2172:U:N3	2.46	0.63
26:14:57:GLU:HB3	26:14:58:ARG:HD2	1.81	0.62
22:20:11:ARG:O	22:20:14:ARG:NH2	2.30	0.62
1:1A:1133:G:H2'	1:1A:1135:G:C8	2.33	0.62
33:1b:174:VAL:O	33:1b:178:ARG:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:35:SER:HB3	41:1j:73:ASP:HB2	1.81	0.62
52:1u:5:ASP:OD2	61:1u:101:HOH:O	2.15	0.62
33:2b:12:GLU:O	33:2b:15:VAL:HG22	1.99	0.62
32:2a:642:A:N3	39:2h:113:SER:OG	2.29	0.62
48:2q:66:SER:O	48:2q:70:ARG:NH1	2.33	0.62
19:2X:1:MET:N	61:2X:3101:HOH:O	2.25	0.62
19:2X:53:LYS:HB3	19:2X:82:GLN:HB3	1.81	0.62
11:1P:126:VAL:HG12	11:1P:148:LEU:HD23	1.81	0.62
14:1S:11:LYS:HG3	14:1S:91:PRO:HD3	1.81	0.62
12:2Q:16:ARG:HG2	12:2Q:18:LYS:HG3	1.82	0.62
1:1A:656:A:OP1	11:1P:65:ARG:NE	2.29	0.62
32:1a:739:C:HO2'	46:1o:42:HIS:HD1	1.47	0.62
32:1a:1004:A:C5'	32:1a:1024:G:H22	2.13	0.62
3:1D:108:PRO:HD2	3:1D:111:LEU:HD22	1.81	0.62
3:2D:242:ARG:HH11	3:2D:242:ARG:H	1.48	0.62
40:2i:49:PRO:HD2	40:2i:81:ILE:HD11	1.82	0.62
19:1X:31:HIS:CD2	19:1X:33:LYS:H	2.18	0.62
34:1c:6:HIS:HD2	34:1c:8:ILE:H	1.48	0.62
41:1j:38:ILE:HD11	41:1j:71:LEU:HD23	1.81	0.62
1:2A:1434:A:H61	1:2A:1558:A:H62	1.48	0.62
1:2A:1816:G:O6	3:2D:35:LYS:NZ	2.31	0.62
1:2A:2111:C:N4	1:2A:2144:U:O2'	2.25	0.62
32:2a:9:G:H2'	32:2a:10:A:H8	1.65	0.62
34:2c:6:HIS:HD2	34:2c:9:GLY:H	1.48	0.62
1:1A:1847:G:O6	3:1D:35:LYS:NZ	2.31	0.62
1:1A:2262:G:OP1	12:1Q:85:LYS:NZ	2.29	0.62
1:1A:2331:G:N1	14:1S:3:ARG:HA	2.14	0.62
1:2A:276:A:H5''	1:2A:277:C:H5'	1.82	0.62
15:2T:127:ALA:C	15:2T:129:ARG:H	2.07	0.62
32:2a:1190:G:H5'	34:2c:176:HIS:HE1	1.65	0.62
32:1a:167:G:H2'	32:1a:168:G:H8	1.64	0.62
44:2m:40:ASN:HB3	44:2m:43:THR:HG23	1.82	0.62
50:2s:27:GLU:OE1	50:2s:28:LYS:NZ	2.27	0.62
54:2y:8:4SU:H1'	54:2y:48:C:H1'	1.82	0.62
32:1a:1145:C:H4'	32:1a:1146:A:H5'	1.81	0.61
54:1w:53:G:H1	54:1w:61:C:H42	1.47	0.61
1:2A:857:C:OP2	22:20:77:ARG:NH2	2.33	0.61
11:2P:95:VAL:HG13	11:2P:125:VAL:HA	1.82	0.61
32:1a:998:G:N2	32:1a:1043:C:N3	2.43	0.61
1:2A:854:G:H2'	1:2A:855:G:H8	1.65	0.61
1:2A:952:G:P	12:2Q:16:ARG:HH12	2.22	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:24:LEU:HD23	5:2F:115:ALA:HA	1.82	0.61
40:2i:55:ALA:HA	40:2i:58:HIS:HD2	1.65	0.61
54:2y:26:A:N6	54:2y:44:G:C6	2.68	0.61
32:1a:78:G:C6	32:1a:91:C:N4	2.68	0.61
1:2A:911:A:OP1	61:2A:3944:HOH:O	2.16	0.61
27:25:16:ARG:NH1	27:25:17:ASP:OD1	2.33	0.61
32:2a:976:G:H5'	32:2a:1358:U:O2'	2.00	0.61
1:1A:930:G:H22	1:1A:939:C:H42	1.48	0.61
8:1I:72:LEU:HD21	8:1I:107:VAL:HG11	1.81	0.61
54:1w:44:G:O2'	54:1w:45:G:OP1	2.16	0.61
16:2U:6:THR:HG21	16:2U:10:ARG:HH21	1.65	0.61
32:2a:953:G:N7	44:2m:104:ARG:NH2	2.48	0.61
36:2e:122:GLU:HB2	36:2e:126:ARG:NH1	2.16	0.61
19:1X:53:LYS:HB3	19:1X:82:GLN:HB3	1.83	0.61
21:1Z:11:GLU:O	21:1Z:36:LYS:NZ	2.27	0.61
26:14:55:ARG:H	26:14:56:VAL:HA	1.63	0.61
32:1a:1027:C:C4	32:1a:1034:G:C2	2.88	0.61
45:1n:29:ARG:HD3	45:1n:40:CYS:SG	2.40	0.61
48:1q:6:LEU:HD23	48:1q:23:VAL:HG11	1.81	0.61
32:2a:920:U:H2'	32:2a:921:U:C6	2.35	0.61
32:2a:1328:C:OP1	52:2u:21:TYR:OH	2.15	0.61
41:2j:8:LEU:HD12	41:2j:70:ARG:HB2	1.83	0.61
1:1A:393:A:N1	61:1A:4317:HOH:O	2.31	0.61
32:1a:405:U:O4	35:1d:2:GLY:N	2.33	0.61
34:1c:6:HIS:CD2	34:1c:8:ILE:H	2.19	0.61
54:1w:5:G:H2'	54:1w:6:A:C8	2.36	0.61
28:26:10:LEU:HD13	28:26:19:ARG:HD3	1.83	0.61
32:2a:1271:G:N1	32:2a:1272:G:N7	2.49	0.61
1:1A:1451:U:H2'	1:1A:1452:U:C6	2.36	0.61
15:1T:98:LYS:NZ	61:1T:301:HOH:O	2.33	0.61
32:2a:501:C:OP1	43:2l:117:ARG:NH2	2.33	0.61
32:1a:1118:C:OP1	40:1i:104:ARG:NH1	2.33	0.61
43:1l:24:VAL:HB	43:1l:27:LEU:HD22	1.81	0.61
1:2A:1114:G:H2'	1:2A:1115:G:H8	1.64	0.61
32:2a:76:C:N4	32:2a:93:G:H1	1.99	0.61
1:1A:2562:G:OP1	61:1A:4232:HOH:O	2.16	0.61
7:1H:90:LYS:HD3	7:1H:159:GLU:HG2	1.83	0.61
32:1a:184:G:H2'	32:1a:185:A:H8	1.66	0.61
32:1a:222:U:H2'	32:1a:223:U:C6	2.36	0.61
1:2A:271(L):U:H5'	8:2I:50:ARG:HH22	1.66	0.61
2:2B:66:A:H61	2:2B:109:C:H5''	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:184:TYR:CE2	5:2F:188:ARG:HD2	2.36	0.61
30:28:23:VAL:HG11	30:28:47:LYS:HD3	1.83	0.61
1:1A:271:U:H1'	8:1I:50:ARG:NH2	2.16	0.61
32:1a:167:G:H2'	32:1a:168:G:C8	2.35	0.61
32:1a:1202:G:H1'	45:1n:29:ARG:HD2	1.82	0.61
54:1y:36:C:H3'	54:1y:37:6MZ:H8	1.83	0.61
1:2A:1938:A:OP2	61:2A:3945:HOH:O	2.16	0.61
1:2A:2150:U:H2'	1:2A:2151:G:C8	2.35	0.61
1:2A:2698:U:O4	61:2A:3938:HOH:O	2.13	0.61
32:2a:1030:C:H42	32:2a:1031:G:H1	1.49	0.61
47:2p:14:ASN:OD1	47:2p:42:ARG:NH2	2.34	0.61
32:1a:630:G:N2	61:1a:3491:HOH:O	2.33	0.60
32:2a:391:G:N7	61:2a:1932:HOH:O	2.31	0.60
1:2A:2134:A:O2'	1:2A:2159:G:N2	2.33	0.60
34:2c:9:GLY:HA3	45:2n:49:HIS:HA	1.84	0.60
1:2A:517:C:OP1	27:25:16:ARG:NH2	2.34	0.60
32:2a:157:G:H1	32:2a:164:U:H3	1.49	0.60
32:1a:128:G:O2'	48:1q:3:LYS:NZ	2.35	0.60
9:2N:21:LYS:NZ	9:2N:140:VAL:OXT	2.35	0.60
31:29:25:VAL:HB	31:29:34:GLN:HB2	1.82	0.60
54:2w:5:G:H2'	54:2w:6:A:C8	2.36	0.60
32:1a:1194:U:H4'	36:1e:22:GLY:HA2	1.84	0.60
32:1a:1298:C:H2'	38:1g:114:ARG:HH12	1.66	0.60
1:2A:1937:A:H1'	1:2A:1939:5MU:H72	1.83	0.60
15:2T:117:ASP:OD2	15:2T:120:ARG:NE	2.30	0.60
32:2a:35:G:O2'	43:2l:118:SER:O	2.17	0.60
43:2l:86:ARG:NH1	61:2l:5002:HOH:O	2.34	0.60
32:1a:1027:C:N3	32:1a:1034:G:N2	2.50	0.60
32:2a:1305:G:N2	32:2a:1331:G:H1'	2.16	0.60
37:2f:37:VAL:HA	37:2f:65:VAL:HG12	1.84	0.60
1:1A:973:G:N7	61:1A:4318:HOH:O	2.31	0.60
1:1A:2013:U:H2'	1:1A:2014:G:H5''	1.83	0.60
19:1X:31:HIS:HD2	19:1X:33:LYS:H	1.47	0.60
32:1a:200:G:H1	32:1a:217:C:H42	1.49	0.60
36:1e:78:HIS:CD2	39:1h:104:ARG:HD2	2.37	0.60
36:2e:122:GLU:HB2	36:2e:126:ARG:HH11	1.67	0.60
1:1A:1232:G:H5''	17:1V:81:TYR:CE1	2.36	0.60
1:1A:2416:C:O3'	11:1P:77:ARG:NH2	2.34	0.60
44:1m:80:ARG:NH2	50:1s:65:ASN:O	2.35	0.60
1:2A:2273:A:H2'	1:2A:2274:A:C8	2.37	0.60
34:2c:150:LYS:HG3	34:2c:169:ALA:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1346:U:H4'	1:1A:1347:A:H5''	1.83	0.60
1:1A:1452:U:H2'	1:1A:1453:C:C6	2.36	0.60
32:1a:974:A:OP2	45:1n:29:ARG:NH2	2.35	0.60
1:2A:1022:G:N2	1:2A:1023:U:O4	2.34	0.60
1:2A:2552:2MU:OP2	61:2A:3947:HOH:O	2.17	0.60
6:2G:3:LEU:O	6:2G:8:LYS:NZ	2.24	0.60
43:2l:32:PHE:HB3	43:2l:84:LEU:HD11	1.84	0.60
1:1A:1834:A:O2'	3:1D:259:THR:HG21	2.01	0.60
1:1A:2123:G:H1	1:1A:2210:C:N4	1.99	0.60
1:1A:2718:G:N7	61:1A:4324:HOH:O	2.31	0.60
32:1a:382:A:H2'	32:1a:383:A:C8	2.37	0.60
32:1a:1027:C:N4	32:1a:1034:G:N1	2.49	0.60
32:2a:45:U:H2'	32:2a:46:G:C8	2.37	0.60
32:2a:134:A:N6	47:2p:25:ARG:HH12	2.00	0.60
32:2a:1346:A:H2'	38:2g:10:ARG:HH22	1.67	0.60
1:1A:1112:U:N3	1:1A:1115:A:OP2	2.27	0.59
32:1a:44:G:N7	61:1a:3479:HOH:O	2.30	0.59
32:1a:45:U:H2'	32:1a:46:G:C8	2.37	0.59
32:1a:123:C:OP1	32:1a:311:C:O2'	2.19	0.59
32:1a:971:G:N2	32:1a:1363(A):A:OP2	2.31	0.59
48:1q:9:VAL:HG12	48:1q:56:VAL:HG22	1.84	0.59
54:1w:5:G:H2'	54:1w:6:A:H8	1.67	0.59
8:2l:93:THR:HG22	8:2l:119:PRO:HB3	1.84	0.59
32:2a:1348:U:H2'	32:2a:1349:A:H8	1.67	0.59
40:2i:9:ARG:HG2	40:2i:14:VAL:HG12	1.83	0.59
40:2i:28:VAL:HG22	40:2i:63:ILE:HB	1.84	0.59
23:11:50:ARG:HG2	23:11:59:THR:HG22	1.84	0.59
32:1a:69:G:H2'	32:1a:70:G:H8	1.67	0.59
32:1a:1136:U:H5''	32:1a:1137:C:C2	2.37	0.59
1:2A:614(B):G:H2'	5:2F:44:ARG:HD2	1.84	0.59
1:2A:1449:A:O2'	1:2A:1529:G:N2	2.31	0.59
11:2P:63:PRO:HG2	30:28:25:MET:HB2	1.83	0.59
32:2a:1272:G:N2	32:2a:1273:G:C4	2.71	0.59
33:2b:87:ARG:NH2	33:2b:220:ASP:OD1	2.28	0.59
38:2g:152:ALA:O	38:2g:155:ARG:NH1	2.33	0.59
1:1A:2348:A:H61	22:10:43:THR:HG22	1.67	0.59
7:1H:164:TYR:HB2	7:1H:167:GLU:HB2	1.84	0.59
50:1s:50:ALA:HB1	50:1s:57:HIS:HB3	1.84	0.59
54:1w:7:U:O2'	54:1w:49:G:OP2	2.20	0.59
1:2A:2524:G:N7	61:2A:4016:HOH:O	2.31	0.59
2:2B:15:A:OP2	2:2B:69:G:N2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:2G:15:VAL:HG22	6:2G:175:LEU:HB3	1.84	0.59
26:24:48:ARG:HG2	26:24:52:THR:HG23	1.84	0.59
32:2a:542:G:P	35:2d:10:ARG:HH22	2.25	0.59
41:2j:69:ASN:O	41:2j:70:ARG:NH1	2.34	0.59
54:2y:31:C:H42	54:2y:39:G:H1	1.49	0.59
54:2y:42:G:H2'	54:2y:43:G:C8	2.38	0.59
32:1a:1030:C:N4	32:1a:1031:G:N1	2.39	0.59
32:1a:1356:G:H2'	32:1a:1357:A:C8	2.37	0.59
1:1A:2163:G:O6	1:1A:2172:U:O2	2.19	0.59
1:2A:531:C:OP1	1:2A:561:G:N1	2.32	0.59
1:2A:1557:C:OP2	1:2A:1558:A:O2'	2.18	0.59
1:2A:2312:U:H5'	6:2G:88:ILE:HD11	1.85	0.59
10:2O:2:ILE:HD12	10:2O:6:THR:HG21	1.85	0.59
36:2e:60:TYR:OH	36:2e:64:ARG:NH2	2.36	0.59
1:1A:95:G:OP1	24:12:46:GLN:NE2	2.36	0.59
32:2a:1027:C:C2	32:2a:1034:G:N1	2.67	0.59
15:1T:74:ARG:HG2	15:1T:76:PHE:CZ	2.37	0.59
1:2A:9:U:O2'	1:2A:2801(A):A:N6	2.35	0.59
1:2A:764:A:H5'	3:2D:210:GLY:HA2	1.83	0.59
1:1A:551:A:OP1	61:1A:4203:HOH:O	2.16	0.59
3:1D:237:GLU:OE2	61:1D:3101:HOH:O	2.17	0.59
6:1G:15:VAL:HG22	6:1G:175:LEU:HB3	1.84	0.59
32:1a:221:C:H2'	32:1a:222:U:H6	1.68	0.59
32:1a:649:G:H2'	32:1a:650:G:H8	1.66	0.59
32:2a:1435:G:H2'	32:2a:1436:U:C6	2.38	0.59
1:1A:1398:U:OP2	61:1A:4249:HOH:O	2.15	0.59
3:1D:12:SER:HB3	3:1D:208:LYS:HB3	1.85	0.59
18:1W:2:GLU:OE2	18:1W:72:LYS:NZ	2.29	0.59
32:1a:159:G:N2	32:1a:162:A:OP2	2.36	0.59
33:1b:78:GLN:HE22	33:1b:95:GLN:HG2	1.68	0.59
39:1h:91:ARG:HD3	48:1q:32:TYR:O	2.02	0.59
1:2A:878:A:N6	1:2A:899:A:O2'	2.35	0.59
1:2A:2646:C:OP2	1:2A:2732:G:O2'	2.21	0.59
32:2a:1104:G:H4'	33:2b:111:ARG:NH2	2.17	0.59
32:2a:1381:U:O4'	38:2g:79:ARG:NH2	2.36	0.59
41:1j:40:LEU:HB2	41:1j:69:ASN:HB2	1.85	0.59
1:2A:2857:G:N2	1:2A:2860:A:OP2	2.33	0.59
25:23:8:LEU:HG	25:23:31:LEU:HD23	1.85	0.59
28:26:8:LYS:HD3	30:28:34:TRP:CD2	2.38	0.59
54:2w:53:G:H1	54:2w:61:C:N4	2.01	0.59
54:2y:55:PSU:C2	54:2y:57:G:H5'	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2442:A:H2'	1:1A:2442:A:N3	2.18	0.58
32:1a:69:G:H2'	32:1a:70:G:C8	2.38	0.58
32:1a:111:G:N2	61:1a:3501:HOH:O	2.35	0.58
1:2A:1507:A:O2'	1:2A:1508:A:O4'	2.20	0.58
2:2B:66:A:N6	2:2B:109:C:H5''	2.18	0.58
11:2P:91:PHE:O	11:2P:121:LYS:NZ	2.30	0.58
32:2a:421:U:O2'	32:2a:423:G:N7	2.35	0.58
1:1A:1139:G:H3'	1:1A:1140:U:H5''	1.84	0.58
1:1A:1405:A:H2	1:1A:1418:U:O4	1.86	0.58
33:1b:162:ILE:O	33:1b:185:ILE:HG12	2.04	0.58
40:1i:46:ALA:HB2	40:1i:74:ILE:HG23	1.84	0.58
1:2A:752:A:H3'	29:27:1:MET:HE1	1.85	0.58
14:2S:15:ARG:HB3	14:2S:19:LYS:HE3	1.86	0.58
32:2a:825:G:H1	32:2a:875:C:H42	1.51	0.58
32:2a:997:U:O2	32:2a:1044:A:N1	2.36	0.58
38:2g:66:VAL:HG12	38:2g:70:LYS:HE3	1.85	0.58
1:1A:1071:G:C4	1:1A:1180:C:H1'	2.38	0.58
1:1A:2045:G:H5'	1:1A:2629:C:H4'	1.84	0.58
21:1Z:93:ASP:HB3	21:1Z:131:ARG:HH22	1.68	0.58
32:1a:186:C:H2'	32:1a:187:C:C6	2.37	0.58
32:1a:701:C:OP1	32:1a:702:A:O2'	2.18	0.58
36:1e:6:PHE:HB3	36:1e:34:VAL:HG22	1.85	0.58
1:2A:2592:G:OP2	61:2A:3952:HOH:O	2.17	0.58
32:2a:986:A:N3	50:2s:52:TYR:OH	2.34	0.58
1:1A:1815:A:OP2	61:1A:4228:HOH:O	2.17	0.58
32:1a:1402:4OC:HM22	32:1a:1403:C:H5'	1.85	0.58
54:1y:51:C:H2'	54:1y:52:G:C8	2.37	0.58
1:2A:613:G:N2	1:2A:614(C):A:O2'	2.36	0.58
1:2A:2145:C:O2'	1:2A:2147:G:N7	2.36	0.58
6:2G:11:TYR:HA	6:2G:15:VAL:HB	1.83	0.58
8:2I:92:VAL:HG13	8:2I:120:ILE:HB	1.85	0.58
20:2Y:102:CYS:SG	20:2Y:103:GLY:N	2.77	0.58
32:1a:316:G:OP2	32:1a:351:G:O2'	2.21	0.58
1:2A:744:G:OP1	61:2A:3948:HOH:O	2.17	0.58
32:2a:560:U:H5'	32:2a:566:G:N2	2.17	0.58
32:2a:1052:U:O2'	32:2a:1055:A:OP2	2.12	0.58
1:1A:2487:C:OP2	61:1A:4252:HOH:O	2.17	0.58
12:1Q:35:VAL:HG13	12:1Q:130:LYS:HB3	1.84	0.58
18:2W:23:LEU:HD11	27:25:25:LEU:HB2	1.84	0.58
24:22:22:GLU:OE2	24:22:68:ARG:NH2	2.36	0.58
32:2a:533:A:OP1	61:2a:1911:HOH:O	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1274:G:N2	32:2a:1275:A:N7	2.45	0.58
36:2e:91:LEU:HG	36:2e:118:ILE:HD11	1.86	0.58
1:1A:1312:G:O5'	18:1W:15:ARG:NH2	2.36	0.58
41:1j:8:LEU:HB3	41:1j:96:ILE:HG22	1.85	0.58
1:2A:307:G:N1	1:2A:310:A:OP2	2.36	0.58
1:2A:1037:G:H1	1:2A:1118:C:H42	1.50	0.58
32:2a:573:A:N3	32:2a:883:C:O2'	2.35	0.58
33:2b:27:LYS:HB2	33:2b:194:PRO:HD2	1.86	0.58
34:2c:157:ILE:HB	34:2c:164:ARG:HH21	1.68	0.58
54:2w:18:G:O2'	54:2w:57:G:N2	2.33	0.58
33:1b:18:GLY:HA3	33:1b:42:ILE:HG13	1.84	0.58
1:2A:607:U:OP1	5:2F:102:PRO:HA	2.04	0.58
32:2a:933:G:N2	32:2a:935:A:O4'	2.37	0.58
1:1A:1104:G:N1	1:1A:1126:C:N4	2.32	0.58
34:1c:3:ASN:OD1	34:1c:3:ASN:N	2.37	0.58
1:2A:1278:A:OP1	13:2R:36:THR:HG23	2.04	0.58
1:2A:2327:A:H2'	1:2A:2328:A:C8	2.38	0.58
1:2A:2518:A:OP2	61:2A:3949:HOH:O	2.17	0.58
33:2b:93:VAL:HG11	33:2b:97:TRP:CD1	2.37	0.58
54:2y:6:A:H62	54:2y:65:C:N4	2.01	0.58
1:1A:2164:C:H2'	1:1A:2165:C:C6	2.39	0.58
1:1A:2227:G:H5''	1:1A:2228:G:C5	2.39	0.58
33:1b:24:TRP:CZ3	33:1b:26:PRO:HA	2.39	0.58
36:1e:85:GLY:C	36:1e:87:SER:H	2.12	0.58
51:1t:43:LEU:O	51:1t:47:GLY:N	2.21	0.58
1:2A:524:U:H2'	1:2A:525:U:C6	2.39	0.58
32:2a:1261:A:H62	32:2a:1273:G:H1	1.51	0.58
32:2a:1305:G:O2'	32:2a:1331:G:N2	2.37	0.58
32:2a:1505:G:OP1	61:2a:1912:HOH:O	2.17	0.58
1:1A:2184:G:H4'	1:1A:2194:U:H2'	1.85	0.57
5:1F:140:LEU:HD11	5:1F:170:LEU:HD11	1.86	0.57
32:1a:171:A:H2'	32:1a:172:A:C8	2.38	0.57
49:1r:32:ARG:HA	49:1r:69:THR:HG21	1.86	0.57
54:1y:35:A:H2'	54:1y:36:C:H6	1.69	0.57
1:2A:1011:G:OP2	16:2U:66:ASN:ND2	2.32	0.57
19:2X:31:HIS:CD2	19:2X:33:LYS:H	2.21	0.57
33:2b:16:HIS:HB3	33:2b:210:SER:HB2	1.86	0.57
1:1A:2255:U:H2'	1:1A:2256:U:C6	2.39	0.57
21:1Z:150:LEU:HG	21:1Z:151:HIS:H	1.68	0.57
26:14:16:CYS:SG	26:14:17:GLY:N	2.77	0.57
54:2w:62:C:H2'	54:2w:63:G:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1085:G:H1	1:1A:1162:C:H42	1.50	0.57
2:2B:14:U:OP2	2:2B:70:C:O2'	2.20	0.57
32:1a:966:M2G:O6	61:1a:3437:HOH:O	2.17	0.57
45:1n:4:LYS:HA	45:1n:7:ILE:HG22	1.87	0.57
1:2A:271(U):G:N7	61:2A:4019:HOH:O	2.32	0.57
1:2A:2328:A:H2'	1:2A:2329:G:C8	2.39	0.57
2:2B:42:C:O2'	6:2G:67:LYS:O	2.13	0.57
1:1A:355:A:N1	61:1A:4335:HOH:O	2.33	0.57
8:1I:116:LEU:HD21	8:1I:119:PRO:HA	1.86	0.57
32:1a:96:U:H2'	32:1a:97:G:C8	2.39	0.57
1:2A:1604:C:OP1	61:2A:3953:HOH:O	2.17	0.57
1:2A:2074:U:H2'	1:2A:2075:U:C6	2.38	0.57
1:2A:2278:A:OP2	22:20:12:ASN:ND2	2.37	0.57
32:2a:769:G:H4'	32:2a:1513:A:H4'	1.86	0.57
32:2a:921:U:O2	36:2e:19:MET:HB2	2.04	0.57
38:2g:69:VAL:HG21	38:2g:104:LEU:HD11	1.87	0.57
1:1A:1384:G:N7	19:1X:62:LYS:NZ	2.48	0.57
1:1A:2705:A:H2'	1:1A:2706:G:H8	1.69	0.57
32:1a:1068:G:H8	32:1a:1068:G:OP2	1.88	0.57
38:1g:79:ARG:HG3	38:1g:80:VAL:H	1.68	0.57
32:2a:126:G:OP1	32:2a:605:U:O2'	2.21	0.57
32:2a:922:G:H4'	36:2e:20:GLN:HA	1.86	0.57
54:2y:51:C:C2	54:2y:63:G:N1	2.72	0.57
21:2Z:65:GLN:HE21	21:2Z:67:LEU:HD21	1.68	0.57
32:2a:1026:G:N2	32:2a:1027:C:O4'	2.38	0.57
33:2b:60:ASP:O	33:2b:64:ARG:HG2	2.04	0.57
35:2d:22:LYS:O	35:2d:113:SER:HB3	2.04	0.57
12:1Q:85:LYS:HD3	22:10:7:LEU:HD13	1.87	0.57
32:1a:412:A:H4'	32:1a:413:G:H5'	1.87	0.57
32:1a:1002:G:H3'	32:1a:1003:G:H4'	1.86	0.57
54:1y:58:A:O2'	54:1y:59:U:OP1	2.21	0.57
1:2A:1297:C:OP2	61:2A:3954:HOH:O	2.18	0.57
1:2A:2117:A:O2'	1:2A:2118:U:H5''	2.05	0.57
32:2a:148:G:H2'	32:2a:149:A:H8	1.70	0.57
32:2a:405:U:O4	35:2d:2:GLY:N	2.38	0.57
32:2a:1072:G:H2'	32:2a:1073:U:C6	2.40	0.57
1:1A:1219:A:H1'	1:1A:1220:U:H5''	1.87	0.57
32:1a:1030:C:N3	32:1a:1031:G:C2	2.73	0.57
32:1a:1298:C:OP2	38:1g:114:ARG:NH2	2.38	0.57
35:1d:60:GLU:OE2	35:1d:63:LYS:NZ	2.25	0.57
36:1e:50:GLU:HB2	36:1e:53:LEU:HD13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:125:ILE:HB	37:2f:81:ILE:HD11	1.87	0.57
6:2G:28:VAL:O	6:2G:31:VAL:HG12	2.05	0.57
7:2H:46:GLU:OE2	7:2H:51:ARG:NH1	2.36	0.57
38:2g:79:ARG:HG3	38:2g:80:VAL:H	1.70	0.57
38:2g:113:GLU:HB2	38:2g:119:ARG:HG2	1.87	0.57
55:2x:8:4SU:O2	55:2x:21:A:H2	1.88	0.57
1:2A:2820:A:OP2	13:2R:2:ARG:NH2	2.38	0.57
8:2I:31:LEU:HD21	8:2I:38:LEU:HG	1.87	0.57
32:2a:1030(A):G:N2	32:2a:1030(D):A:OP2	2.37	0.57
4:1E:14:ILE:HG13	4:1E:21:VAL:HG13	1.87	0.56
5:1F:154:VAL:HG22	5:1F:191:ARG:HB2	1.87	0.56
32:1a:1000:U:O4	32:1a:1041:A:N1	2.38	0.56
32:1a:1031:G:H2'	32:1a:1032:G:C8	2.39	0.56
34:1c:52:LEU:HD21	34:1c:55:VAL:HG23	1.85	0.56
1:2A:1379:A:H4'	1:2A:1380:G:OP2	2.04	0.56
1:2A:2513:G:N7	61:2A:4025:HOH:O	2.33	0.56
7:2H:124:GLU:HB2	7:2H:132:ARG:HB3	1.85	0.56
8:2I:116:LEU:HD21	8:2I:119:PRO:HA	1.86	0.56
32:2a:539:A:H2'	32:2a:540:G:C8	2.40	0.56
32:2a:1239:A:H4'	32:2a:1240:U:H5''	1.87	0.56
35:2d:173:TRP:CD1	35:2d:189:PRO:HG3	2.40	0.56
1:1A:1159:U:H2'	1:1A:1160:G:H8	1.70	0.56
1:1A:1475:G:H2'	1:1A:1476:C:C6	2.39	0.56
1:1A:2003:A:OP1	61:1A:4255:HOH:O	2.18	0.56
32:1a:1033:G:H2'	32:1a:1034:G:H8	1.70	0.56
38:1g:74:GLU:OE2	38:1g:95:ARG:NE	2.36	0.56
1:2A:143:G:H2'	1:2A:143(A):C:C6	2.40	0.56
1:2A:2143:C:H42	1:2A:2148:G:H1	1.53	0.56
34:2c:152:ILE:HG13	34:2c:167:TRP:HB3	1.87	0.56
38:2g:80:VAL:HB	38:2g:85:TYR:HE2	1.70	0.56
1:1A:1827:U:H2'	1:1A:1828:C:C6	2.39	0.56
1:1A:2348:A:H61	22:10:43:THR:CG2	2.18	0.56
7:1H:25:LYS:HG2	7:1H:34:GLU:HG2	1.87	0.56
36:1e:20:GLN:NE2	36:1e:21:ALA:O	2.38	0.56
51:1t:60:GLU:HG3	51:1t:81:LYS:HD2	1.87	0.56
54:1w:4:U:H3	54:1w:69:A:N6	2.00	0.56
1:2A:467:G:OP2	29:27:34:ARG:HD3	2.06	0.56
1:2A:662:G:OP1	61:2A:3951:HOH:O	2.17	0.56
1:2A:1022:G:H22	1:2A:1142(A):A:H2	1.53	0.56
1:2A:1226:A:OP1	17:2V:84:LYS:NZ	2.24	0.56
2:2B:24:G:N7	2:2B:56:G:H2'	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:643:C:H2'	32:2a:644:G:H8	1.71	0.56
32:2a:1301:U:O2'	32:2a:1302:U:H5'	2.05	0.56
32:2a:1406:U:O2	32:2a:1517:G:N2	2.34	0.56
32:2a:1442:G:H2'	32:2a:1442:G:N3	2.20	0.56
38:2g:111:ARG:HB3	38:2g:113:GLU:OE1	2.05	0.56
56:C:4:GLY:H	56:C:5:ORD:HG2	1.70	0.56
11:1P:32:THR:O	61:1P:301:HOH:O	2.18	0.56
54:1y:44:G:H3'	54:1y:45:G:C8	2.39	0.56
32:2a:707:C:H2'	32:2a:708:C:C6	2.40	0.56
32:2a:1089:G:N2	32:2a:1096:C:N3	2.44	0.56
32:2a:1179:A:H2'	32:2a:1180:A:O4'	2.05	0.56
1:1A:1106:U:H3	1:1A:1134:A:H8	1.53	0.56
1:1A:2484:G:OP2	61:1A:4254:HOH:O	2.17	0.56
18:1W:73:ALA:HB3	18:1W:106:ILE:HB	1.87	0.56
32:1a:1021:G:O2'	32:1a:1022:G:O5'	2.22	0.56
17:2V:76:LYS:HB2	17:2V:81:TYR:HB3	1.87	0.56
23:21:37:ILE:O	61:21:5001:HOH:O	2.18	0.56
1:1A:2859:U:H4'	1:1A:2878:A:C2	2.41	0.56
44:1m:80:ARG:HH22	50:1s:69:HIS:HE1	1.53	0.56
32:2a:1218:C:H2'	32:2a:1219:U:C6	2.40	0.56
32:2a:1314:C:OP1	50:2s:6:LYS:NZ	2.26	0.56
41:2j:11:PHE:HE1	41:2j:67:THR:HG22	1.70	0.56
54:2y:36:C:H2'	54:2y:37:6MZ:O4'	2.06	0.56
1:1A:2324:U:H5'	6:1G:88:ILE:HD11	1.87	0.56
1:1A:2825:C:H5'	27:15:29:THR:HG21	1.87	0.56
32:1a:976:G:H5'	32:1a:1358:U:O2'	2.04	0.56
32:1a:1074:G:O2'	32:1a:1101:A:N1	2.32	0.56
48:1q:66:SER:O	48:1q:70:ARG:NH1	2.38	0.56
1:2A:568:U:H5'	1:2A:945:A:N1	2.21	0.56
1:2A:2637:U:H5''	4:2E:82:ARG:NH1	2.21	0.56
2:2B:24:G:N3	2:2B:26:A:N6	2.54	0.56
32:2a:1347:G:N2	32:2a:1373:G:H2'	2.21	0.56
1:1A:2804:C:H2'	1:1A:2805:G:C8	2.39	0.56
2:1B:105:A:OP1	21:1Z:72:ARG:NH1	2.38	0.56
19:1X:43:VAL:HG21	19:1X:81:VAL:HG21	1.87	0.56
1:2A:900:A:HO2'	1:2A:901:A:P	2.28	0.56
32:2a:1065:U:H3	32:2a:1109:C:H5''	1.70	0.56
6:1G:11:TYR:HA	6:1G:15:VAL:HB	1.87	0.56
20:1Y:34:LYS:NZ	61:1Y:5001:HOH:O	2.18	0.56
1:2A:2336:A:H61	22:20:43:THR:HG22	1.71	0.56
1:2A:2711:A:OP2	61:2A:3903:HOH:O	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1142:G:H3'	32:2a:1143:G:H8	1.69	0.56
32:2a:1427:U:H2'	32:2a:1428:A:C8	2.41	0.56
33:2b:187:LEU:HA	33:2b:201:ILE:HB	1.86	0.56
44:2m:80:ARG:HH22	50:2s:69:HIS:HE1	1.54	0.56
1:1A:596:G:N1	1:1A:2053:A:OP2	2.28	0.56
19:1X:2:LYS:NZ	19:1X:38:GLU:OE2	2.35	0.56
54:1y:63:G:H2'	54:1y:64:U:O4'	2.05	0.56
1:2A:1410:G:H2'	1:2A:1411:C:C6	2.41	0.56
1:2A:2334:G:H5'	14:2S:9:ARG:HG2	1.88	0.56
7:2H:3:ARG:HH11	7:2H:4:ILE:H	1.54	0.56
21:2Z:150:LEU:HG	21:2Z:151:HIS:H	1.70	0.56
1:1A:217:A:H8	1:1A:218:A:H5'	1.70	0.55
32:1a:619:U:N3	35:1d:134:ASP:OD1	2.34	0.55
10:2O:24:VAL:HG13	10:2O:33:ALA:HB2	1.87	0.55
14:2S:14:VAL:O	14:2S:18:ILE:HG12	2.07	0.55
23:21:83:GLU:OE1	23:21:83:GLU:N	2.39	0.55
32:2a:1009:G:N2	32:2a:1021:G:H1'	2.21	0.55
48:2q:67:LYS:HA	48:2q:70:ARG:HH12	1.71	0.55
1:1A:2495:C:N3	12:1Q:124:LYS:HE3	2.20	0.55
32:1a:460:G:N2	32:1a:471:G:N7	2.53	0.55
51:1t:10:LEU:HD12	51:1t:11:SER:H	1.71	0.55
1:2A:863:A:H2'	1:2A:864:G:H8	1.70	0.55
5:2F:33:LEU:HD11	5:2F:112:MET:HB2	1.88	0.55
32:2a:437:U:H5'	35:2d:155:LEU:HD21	1.88	0.55
32:2a:1273:G:H3'	32:2a:1274:G:C8	2.40	0.55
39:2h:19:VAL:HG23	39:2h:21:LYS:HG2	1.87	0.55
1:1A:1896:G:N2	1:1A:1899:A:OP2	2.37	0.55
15:1T:127:ALA:C	15:1T:129:ARG:H	2.14	0.55
28:16:8:LYS:HD3	30:18:34:TRP:CD2	2.42	0.55
32:1a:1298:C:C4	38:1g:114:ARG:HD3	2.42	0.55
1:2A:220:G:O2'	1:2A:233:A:N3	2.34	0.55
1:2A:796:C:H2'	1:2A:797:C:C6	2.41	0.55
1:2A:1188:U:H4'	17:2V:79:VAL:HG22	1.87	0.55
7:2H:3:ARG:HE	7:2H:54:ARG:HH12	1.52	0.55
9:2N:108:PRO:O	9:2N:113:GLY:HA3	2.06	0.55
34:2c:131:ARG:HH21	36:2e:50:GLU:HG3	1.69	0.55
21:1Z:163:LEU:HD23	21:1Z:167:PRO:HG3	1.88	0.55
36:1e:85:GLY:O	36:1e:87:SER:N	2.39	0.55
51:1t:9:ASN:O	51:1t:10:LEU:HB2	2.06	0.55
1:2A:184:C:H2'	1:2A:185:U:C6	2.40	0.55
1:2A:2386:C:H2'	1:2A:2387:U:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1320:C:H2'	32:2a:1321:C:O4'	2.06	0.55
33:2b:208:ILE:H	33:2b:208:ILE:HD12	1.71	0.55
54:2w:19:G:O5'	54:2w:60:C:N4	2.39	0.55
1:1A:2186:C:H2'	1:1A:2187:G:H5'	1.89	0.55
32:1a:1025:U:O2	32:1a:1036:G:O6	2.25	0.55
32:1a:1273:G:H3'	32:1a:1274:G:H8	1.71	0.55
32:1a:1305:G:N2	32:1a:1331:G:H1'	2.20	0.55
1:2A:863:A:H2'	1:2A:864:G:C8	2.42	0.55
21:2Z:55:HIS:CE1	21:2Z:135:GLU:HG3	2.42	0.55
32:2a:677:U:H3	32:2a:713:G:H22	1.55	0.55
50:2s:30:LEU:HD11	50:2s:50:ALA:HB2	1.88	0.55
4:1E:2:LYS:HB2	4:1E:95:ILE:HD12	1.88	0.55
8:1I:99:GLU:HB3	8:1I:103:ARG:HH22	1.72	0.55
32:1a:412:A:C6	35:1d:35:ARG:HG3	2.42	0.55
33:1b:24:TRP:CD1	33:1b:24:TRP:H	2.24	0.55
37:1f:60:PHE:HE2	49:1r:78:LEU:HD21	1.72	0.55
54:1y:4:U:H3	54:1y:69:A:H61	1.53	0.55
1:2A:302:C:OP2	20:2Y:73:ARG:NH1	2.40	0.55
1:2A:2012:G:OP1	18:2W:11:ARG:NH2	2.40	0.55
1:1A:2317:A:H5''	6:1G:134:GLY:HA3	1.88	0.55
5:1F:89:VAL:O	61:1F:401:HOH:O	2.18	0.55
32:1a:1075:C:OP1	33:1b:179:LYS:NZ	2.25	0.55
1:2A:212:G:H2'	1:2A:213:A:O4'	2.06	0.55
4:2E:27:LEU:HD13	15:2T:1:MET:HE3	1.89	0.55
12:2Q:111:GLU:O	12:2Q:115:MET:HG2	2.07	0.55
20:2Y:20:TYR:HB3	20:2Y:23:ARG:HD2	1.89	0.55
32:2a:406:G:H5'	35:2d:5:ILE:HD11	1.87	0.55
1:1A:173:C:H2'	1:1A:174:U:C6	2.41	0.55
12:1Q:81:VAL:HB	22:10:7:LEU:HD21	1.88	0.55
35:1d:53:ASP:HB3	35:1d:57:ARG:HH12	1.71	0.55
36:1e:74:GLY:HA3	36:1e:116:THR:HG22	1.89	0.55
2:2B:91:C:OP1	12:2Q:16:ARG:HG3	2.06	0.55
32:2a:737:A:H2'	32:2a:738:C:C6	2.42	0.55
32:2a:815:A:N7	32:2a:1509:C:O2'	2.36	0.55
32:2a:1333:A:H2'	32:2a:1334:G:O4'	2.07	0.55
34:2c:180:ALA:HB1	34:2c:203:PHE:HE1	1.70	0.55
35:2d:187:ARG:NH2	35:2d:193:ASP:OD2	2.37	0.55
1:1A:1093:G:H2'	1:1A:1156:G:H1	1.72	0.55
1:1A:1324:A:OP1	13:1R:36:THR:HG23	2.06	0.55
30:18:62:LEU:HB3	30:18:65:GLU:HG2	1.89	0.55
32:1a:79:G:C6	32:1a:90:U:N3	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1d:116:GLN:HE21	35:1d:157:LEU:HD21	1.72	0.55
40:1i:17:VAL:HG11	40:1i:81:ILE:HG22	1.89	0.55
1:2A:2006:C:OP2	61:2A:3956:HOH:O	2.18	0.55
7:2H:3:ARG:NH1	7:2H:4:ILE:H	2.05	0.55
26:24:53:GLU:C	26:24:55:ARG:H	2.15	0.55
32:2a:222:U:H2'	32:2a:223:U:C6	2.42	0.55
32:2a:1002:G:N1	32:2a:1003:G:H8	2.05	0.55
1:1A:2130:C:H2'	1:1A:2131:U:H6	1.71	0.55
13:1R:50:HIS:ND1	61:1R:302:HOH:O	2.33	0.55
1:2A:445:C:OP1	16:2U:2:PRO:HA	2.07	0.55
1:2A:2022:U:O2'	1:2A:2617:C:H5'	2.06	0.55
34:2c:117:ALA:HB2	34:2c:200:ALA:HB2	1.89	0.55
48:2q:84:LEU:HA	48:2q:87:LYS:NZ	2.22	0.55
51:2t:100:ILE:HG13	51:2t:101:GLY:H	1.72	0.55
6:1G:179:PRO:HG3	26:14:43:TYR:OH	2.07	0.54
32:1a:1239:A:H62	32:1a:1299:A:N6	2.05	0.54
1:2A:271(E):U:H2'	1:2A:271(F):C:C6	2.42	0.54
1:2A:652(T):C:H2'	1:2A:652(U):G:C8	2.42	0.54
1:2A:1514:U:H2'	1:2A:1515:G:H8	1.72	0.54
1:2A:1939:5MU:OP1	1:2A:2604:U:O2'	2.25	0.54
6:2G:46:ALA:HB2	6:2G:53:LEU:HG	1.89	0.54
32:2a:748:C:H4'	32:2a:749:C:O5'	2.08	0.54
32:2a:1155:G:H2'	32:2a:1156:G:C8	2.42	0.54
32:2a:1510:U:H2'	32:2a:1511:G:C8	2.41	0.54
42:2k:54:ARG:HH12	54:2y:39:G:H4'	1.71	0.54
1:1A:1091:A:OP1	1:1A:1092:A:H3'	2.07	0.54
1:1A:2858:G:H8	15:1T:97:ALA:HB2	1.73	0.54
12:1Q:30:GLY:HA2	12:1Q:107:ALA:HB2	1.89	0.54
32:1a:692:U:O2'	32:1a:694:A:N7	2.34	0.54
32:1a:1047:G:H5''	45:1n:4:LYS:HD3	1.89	0.54
32:1a:1510:U:H2'	32:1a:1511:G:C8	2.42	0.54
1:2A:829:A:N7	1:2A:2248:C:H5'	2.22	0.54
1:2A:1359:A:H2	1:2A:1372:U:O4	1.90	0.54
1:2A:2104:G:H1	1:2A:2185:C:N4	2.04	0.54
22:20:38:VAL:HG12	22:20:40:GLN:HG2	1.89	0.54
33:2b:76:GLN:HG3	33:2b:206:ASP:O	2.07	0.54
51:2t:9:ASN:O	51:2t:10:LEU:HB2	2.06	0.54
54:2y:65:C:H2'	54:2y:66:A:H8	1.72	0.54
1:1A:2402:U:P	30:18:35:GLN:HE22	2.30	0.54
32:1a:1376:U:H2'	32:1a:1377:A:C8	2.43	0.54
40:1i:49:PRO:HD2	40:1i:81:ILE:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:116:VAL:HG13	4:2E:122:PHE:HB2	1.89	0.54
1:1A:2340:A:H2'	1:1A:2341:G:C8	2.42	0.54
1:1A:2661:U:H2'	1:1A:2662:U:C6	2.42	0.54
3:1D:242:ARG:HH11	3:1D:242:ARG:H	1.55	0.54
32:1a:157:G:N7	61:1a:3489:HOH:O	2.33	0.54
36:1e:12:LEU:HB3	36:1e:31:LEU:HB2	1.89	0.54
1:2A:309:G:N3	1:2A:329:G:O2'	2.38	0.54
32:2a:54:C:N4	32:2a:353:A:OP2	2.40	0.54
37:2f:69:GLU:O	37:2f:72:VAL:HG12	2.07	0.54
1:1A:715:G:H5'	1:1A:716:G:OP2	2.08	0.54
33:1b:16:HIS:HB3	33:1b:210:SER:HB2	1.90	0.54
46:1o:54:ARG:HG2	46:1o:58:MET:HE2	1.90	0.54
1:2A:2404:C:O3'	11:2P:77:ARG:NH2	2.40	0.54
15:2T:60:THR:HG22	15:2T:77:PRO:HA	1.89	0.54
18:2W:34:ASN:OD1	18:2W:37:ARG:NH2	2.39	0.54
32:2a:983:A:N1	32:2a:1222:G:N2	2.55	0.54
35:2d:119:GLN:HE21	35:2d:123:HIS:CD2	2.26	0.54
38:2g:26:PHE:CE2	38:2g:30:ILE:HD11	2.43	0.54
38:2g:50:ILE:HD11	38:2g:61:VAL:HG11	1.88	0.54
55:2x:3:C:N4	55:2x:70:G:H1	2.02	0.54
1:1A:667:G:OP1	61:1A:4258:HOH:O	2.19	0.54
1:1A:1431:G:O2'	1:1A:1442:U:O2	2.16	0.54
5:1F:181:LEU:O	5:1F:205:ARG:NH2	2.40	0.54
22:10:10:THR:HA	61:10:209:HOH:O	2.08	0.54
32:1a:1353:G:OP1	52:1u:10:ARG:NH1	2.41	0.54
32:1a:1442:G:H2'	32:1a:1442:G:N3	2.22	0.54
34:1c:153:VAL:HG22	34:1c:198:VAL:HG13	1.90	0.54
35:1d:172:PRO:HB2	35:1d:187:ARG:HH21	1.73	0.54
1:2A:247:G:H4'	1:2A:386:G:C5	2.43	0.54
32:2a:985:C:H42	32:2a:1220:G:H1	1.55	0.54
32:2a:1118:C:H1'	32:2a:1179:A:C5	2.42	0.54
47:2p:60:LEU:HD21	47:2p:80:PHE:HE1	1.72	0.54
1:1A:469:A:H1'	1:1A:1246:C:O4'	2.06	0.54
32:1a:1058:G:N2	61:1a:3490:HOH:O	2.33	0.54
35:1d:166:LYS:HG2	35:1d:178:VAL:HG11	1.88	0.54
38:1g:76:ARG:HD3	38:1g:89:MET:HG3	1.89	0.54
43:1l:113:ARG:NH2	43:1l:115:LYS:O	2.36	0.54
54:1w:62:C:H2'	54:1w:63:G:H8	1.71	0.54
1:2A:271(G):C:H2'	1:2A:271(H):G:H8	1.73	0.54
1:2A:2154:G:N7	1:2A:2156:G:N2	2.56	0.54
4:2E:174:ASP:OD1	4:2E:175:VAL:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:524:G:H2'	32:2a:525:C:C6	2.43	0.54
32:2a:736:C:H2'	32:2a:737:A:C8	2.42	0.54
32:2a:1010:G:N2	32:2a:1020:U:O2'	2.41	0.54
1:1A:2705:A:H2'	1:1A:2706:G:C8	2.43	0.54
7:1H:154:PRO:HB3	7:1H:163:TYR:CZ	2.43	0.54
32:1a:79:G:C2	32:1a:90:U:O2	2.60	0.54
32:1a:286:G:N7	61:1a:3492:HOH:O	2.34	0.54
32:1a:1118:C:H1'	32:1a:1179:A:C4	2.41	0.54
32:1a:1442:G:O2'	32:1a:1442(A):G:H5'	2.08	0.54
33:1b:163:PHE:CD1	33:1b:185:ILE:HG13	2.43	0.54
1:2A:586:A:N1	1:2A:809:G:O2'	2.37	0.54
1:2A:1155:A:H5''	16:2U:55:ARG:HH11	1.72	0.54
1:2A:2498:C:H3'	61:2A:3923:HOH:O	2.04	0.54
32:2a:1150:U:H4'	41:2j:41:PRO:HG3	1.89	0.54
32:2a:1239:A:H62	32:2a:1299:A:N6	2.05	0.54
54:2w:5:G:H2'	54:2w:6:A:H8	1.72	0.54
1:1A:1211:U:H2'	1:1A:1212:C:C6	2.42	0.54
1:1A:2303:U:H2'	1:1A:2304:C:C6	2.43	0.54
10:1O:63:VAL:HG12	10:1O:106:LEU:HD11	1.89	0.54
1:2A:321:G:OP1	5:2F:135:LYS:NZ	2.40	0.54
1:2A:1801:G:OP2	3:2D:154:LYS:NZ	2.40	0.54
1:2A:2146:C:O2	1:2A:2147:G:N1	2.39	0.54
3:2D:108:PRO:HB3	3:2D:143:HIS:CE1	2.43	0.54
32:2a:952:U:H2'	32:2a:953:G:C8	2.43	0.54
32:2a:1050:G:H1'	32:2a:1214:C:O2	2.08	0.54
54:2y:50:G:H2'	54:2y:51:C:H5'	1.89	0.54
1:1A:1221:G:H4'	1:1A:1222:A:OP1	2.08	0.54
6:1G:67:LYS:HD3	26:14:5:ILE:HD12	1.89	0.54
21:1Z:65:GLN:HE21	21:1Z:67:LEU:HD21	1.71	0.54
32:1a:755:G:OP2	46:1o:65:ARG:HD2	2.08	0.54
33:1b:60:ASP:O	33:1b:64:ARG:HG2	2.08	0.54
54:1w:1:G:H5''	61:1w:207:HOH:O	2.08	0.54
1:2A:223:A:O2'	1:2A:420:C:O2	2.24	0.54
1:2A:586:A:H5'	5:2F:89:VAL:HG21	1.90	0.54
21:2Z:7:ALA:HB3	21:2Z:61:LEU:HD12	1.90	0.54
8:1I:75:LEU:HD22	8:1I:105:HIS:CD2	2.43	0.53
32:1a:324:G:OP1	51:1t:22:ARG:HD2	2.08	0.53
1:2A:637:A:OP1	11:2P:133:SER:OG	2.25	0.53
7:2H:41:MET:HE3	7:2H:64:LEU:HB2	1.89	0.53
21:2Z:156:LYS:HE3	21:2Z:158:PRO:HD3	1.89	0.53
32:2a:504:C:OP1	61:2a:1914:HOH:O	2.19	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1518:MA6:N6	32:2a:1519:MA6:H103	2.24	0.53
54:2w:50:G:O6	54:2w:64:U:O4	2.27	0.53
1:2A:1019:U:OP1	1:2A:1035:U:O2'	2.18	0.53
4:2E:9:VAL:HG22	4:2E:25:VAL:HB	1.90	0.53
7:2H:113:VAL:HG11	7:2H:151:ILE:HG21	1.90	0.53
32:1a:584:G:O6	61:1a:3436:HOH:O	2.17	0.53
32:1a:1002:G:N2	32:1a:1004:A:H1'	2.23	0.53
33:1b:8:LYS:HD2	33:1b:51:LEU:HD13	1.91	0.53
44:1m:23:TYR:CE2	44:1m:71:ARG:HG3	2.44	0.53
1:2A:300:A:OP1	20:2Y:86:ARG:NH2	2.41	0.53
1:2A:625:G:N7	11:2P:107:LYS:NZ	2.56	0.53
32:2a:975:A:H5''	32:2a:1363(A):A:N6	2.23	0.53
32:2a:1417:G:O6	61:2a:1913:HOH:O	2.18	0.53
36:2e:78:HIS:CE1	36:2e:143:ARG:H	2.16	0.53
1:1A:70:A:N7	19:1X:31:HIS:HE1	2.06	0.53
32:1a:414:A:OP2	32:1a:428:G:N2	2.35	0.53
32:1a:447:G:OP2	61:1a:3439:HOH:O	2.19	0.53
33:1b:15:VAL:HG21	33:1b:213:LEU:HD13	1.89	0.53
1:2A:2782:G:OP2	61:2A:3955:HOH:O	2.18	0.53
5:2F:167:ALA:HB1	5:2F:173:VAL:HG11	1.90	0.53
7:2H:3:ARG:NH1	7:2H:5:GLY:H	2.07	0.53
8:2I:129:THR:HG22	8:2I:139:GLN:HE22	1.73	0.53
27:25:41:PRO:O	27:25:44:THR:OG1	2.26	0.53
32:2a:1023:G:C5	32:2a:1024:G:H1'	2.44	0.53
38:2g:16:LEU:HD22	40:2i:41:VAL:O	2.09	0.53
50:2s:32:LYS:HA	50:2s:50:ALA:HB3	1.89	0.53
54:2y:51:C:N3	54:2y:63:G:O6	2.42	0.53
3:1D:108:PRO:HB3	3:1D:143:HIS:CE1	2.43	0.53
12:1Q:16:ARG:HG2	12:1Q:18:LYS:HE2	1.91	0.53
41:1j:11:PHE:HE1	41:1j:67:THR:HG22	1.72	0.53
32:2a:1328:C:O2'	44:2m:29:ARG:NH2	2.41	0.53
44:2m:23:TYR:HB3	44:2m:67:GLU:HA	1.90	0.53
46:2o:25:THR:HG21	46:2o:70:LEU:HB2	1.89	0.53
9:1N:21:LYS:NZ	9:1N:140:VAL:OXT	2.32	0.53
32:1a:200:G:H1	32:1a:217:C:N4	2.07	0.53
33:1b:51:LEU:HD22	33:1b:55:PHE:HE2	1.73	0.53
35:1d:173:TRP:CD2	35:1d:189:PRO:HG3	2.43	0.53
1:2A:1697:G:OP2	1:2A:1698:A:O2'	2.25	0.53
6:2G:44:GLY:N	6:2G:88:ILE:O	2.41	0.53
32:2a:128:G:O2'	48:2q:3:LYS:NZ	2.41	0.53
32:2a:189(K):U:H2'	32:2a:189(L):G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:551:U:H2'	32:2a:552:U:C6	2.42	0.53
32:2a:1084:G:H5'	32:2a:1102:A:OP2	2.08	0.53
32:2a:1401:G:C2	32:2a:1402:4OC:H1'	2.44	0.53
1:1A:943:C:H1'	54:1w:56:C:H5	1.74	0.53
1:1A:1314:A:H2'	1:1A:1315:A:O4'	2.09	0.53
1:1A:2146:G:N2	1:1A:2196:C:N3	2.45	0.53
26:14:64:GLY:C	26:14:66:SER:H	2.15	0.53
32:1a:236:G:OP1	48:1q:40:LYS:NZ	2.38	0.53
32:1a:371:G:OP2	61:1a:3438:HOH:O	2.18	0.53
33:1b:12:GLU:O	33:1b:15:VAL:HG22	2.08	0.53
35:1d:15:GLU:OE2	35:1d:66:ARG:NH1	2.41	0.53
44:1m:23:TYR:HB3	44:1m:67:GLU:HA	1.90	0.53
54:1y:27:C:N3	54:1y:43:G:N2	2.46	0.53
1:2A:1405:U:H2'	1:2A:1406:U:C6	2.43	0.53
1:2A:2693:A:H2'	1:2A:2694:G:C8	2.44	0.53
3:2D:108:PRO:HD2	3:2D:111:LEU:HD22	1.91	0.53
13:2R:24:GLN:HB3	13:2R:44:LEU:HD11	1.90	0.53
1:1A:1074:A:N6	1:1A:1171:G:H2'	2.24	0.53
5:1F:184:TYR:CE2	5:1F:188:ARG:HD2	2.43	0.53
5:1F:185:ASP:OD1	5:1F:188:ARG:NH1	2.36	0.53
7:1H:3:ARG:HH11	7:1H:4:ILE:H	1.56	0.53
11:1P:63:PRO:HG2	30:18:25:MET:HB2	1.91	0.53
30:18:42:ARG:HD2	61:18:205:HOH:O	2.09	0.53
32:1a:328:C:H4'	32:1a:329:A:H5'	1.91	0.53
32:1a:561:U:OP1	61:1a:3440:HOH:O	2.19	0.53
35:1d:3:ARG:HD3	35:1d:118:ARG:HD3	1.90	0.53
45:1n:22:THR:HB	45:1n:33:VAL:HG21	1.90	0.53
4:2E:11:MET:HG2	4:2E:24:THR:HB	1.89	0.53
6:2G:101:ILE:HG22	6:2G:105:LYS:HE2	1.91	0.53
32:2a:757:U:H2'	32:2a:758:G:O4'	2.09	0.53
32:2a:994:A:N7	32:2a:1216:G:H4'	2.24	0.53
32:2a:1032:G:H2'	32:2a:1033:G:O4'	2.09	0.53
32:2a:1226:C:H4'	50:2s:80:TYR:CZ	2.43	0.53
32:2a:1316:G:N7	50:2s:7:LYS:NZ	2.42	0.53
32:2a:1381:U:H2'	32:2a:1382:C:H6	1.73	0.53
54:2y:49:G:N1	54:2y:65:C:O2	2.38	0.53
1:1A:1692:G:H5''	1:1A:1693:C:H5'	1.91	0.53
14:1S:52:SER:HB2	14:1S:55:ALA:H	1.74	0.53
32:1a:67:C:H2'	32:1a:68:G:C8	2.43	0.53
39:1h:69:ARG:NH1	39:1h:75:ARG:O	2.42	0.53
1:2A:574:C:N3	4:2E:145:LYS:NZ	2.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1803:A:H4'	3:2D:259:THR:HG23	1.91	0.53
1:2A:2135:A:H2'	1:2A:2136:C:C5	2.44	0.53
3:2D:242:ARG:HD3	3:2D:246:PRO:HG3	1.89	0.53
32:2a:1223:C:OP2	50:2s:78:ARG:NH2	2.41	0.53
36:2e:6:PHE:HB3	36:2e:34:VAL:HG22	1.90	0.53
1:1A:930:G:N2	1:1A:939:C:H42	2.07	0.53
32:1a:1030(B):C:H2'	32:1a:1030(C):G:H5'	1.91	0.53
44:1m:122:LYS:HG3	44:1m:123:ALA:H	1.74	0.53
4:2E:12:THR:HG22	4:2E:13:ARG:H	1.74	0.53
5:2F:172:TRP:H	5:2F:172:TRP:CD1	2.26	0.53
10:2O:49:ARG:NH1	32:2a:1422:G:O3'	2.39	0.53
32:2a:1075:C:OP1	33:2b:179:LYS:NZ	2.22	0.53
32:2a:1151:A:O2'	32:2a:1152:A:O5'	2.19	0.53
32:2a:1376:U:P	38:2g:94:ARG:HH22	2.32	0.53
48:2q:45:HIS:HB3	48:2q:72:ARG:HG2	1.89	0.53
1:1A:1809:U:H2'	1:1A:1815:A:N6	2.24	0.52
32:1a:524:G:H2'	32:1a:525:C:C6	2.44	0.52
32:1a:1263:C:H2'	32:1a:1264:C:C6	2.44	0.52
1:2A:296:C:O3'	20:2Y:95:LYS:NZ	2.42	0.52
1:2A:2522:U:O2'	1:2A:2647:U:OP1	2.24	0.52
23:21:23:LYS:HB3	23:21:29:GLY:HA3	1.90	0.52
32:2a:620:C:C2	35:2d:135:LEU:HG	2.44	0.52
32:2a:646:U:H2'	32:2a:647:C:C6	2.44	0.52
36:2e:12:LEU:HB3	36:2e:31:LEU:HB2	1.91	0.52
1:1A:630:U:OP1	5:1F:102:PRO:HA	2.09	0.52
21:1Z:132:ASN:ND2	21:1Z:160:GLY:HA3	2.24	0.52
36:1e:68:GLU:HG3	36:1e:70:PRO:HD3	1.92	0.52
1:2A:1794:U:H2'	1:2A:1795:C:C6	2.45	0.52
32:2a:750:G:N3	46:2o:23:GLY:HA3	2.25	0.52
32:2a:1012:U:H2'	32:2a:1013:G:C8	2.45	0.52
35:2d:88:VAL:HG13	36:2e:97:GLY:HA2	1.90	0.52
1:1A:1138:C:H42	1:1A:1145:G:H1	1.58	0.52
32:1a:134:A:H61	47:1p:25:ARG:HH12	1.57	0.52
32:1a:546:G:OP1	35:1d:73:ARG:HG2	2.09	0.52
32:1a:1277:C:O2'	32:1a:1279:A:H1'	2.09	0.52
35:1d:173:TRP:CD1	35:1d:173:TRP:H	2.26	0.52
39:1h:86:ILE:HG13	39:1h:133:LEU:HD22	1.91	0.52
1:2A:1161:C:H2'	1:2A:1162:G:C8	2.44	0.52
1:2A:1991:U:H2'	1:2A:1992:G:H5''	1.91	0.52
32:2a:1465:C:H2'	32:2a:1466:C:O4'	2.09	0.52
1:1A:1371:G:OP1	1:1A:1694:G:O2'	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:88:LYS:HE2	19:1X:93:GLU:HG3	1.92	0.52
32:1a:711:G:OP1	37:1f:54:LYS:NZ	2.39	0.52
32:1a:1240:U:OP2	38:1g:116:ALA:N	2.43	0.52
32:1a:1410:G:H2'	32:1a:1411:C:C6	2.42	0.52
32:1a:1414:U:H3	32:1a:1486:G:H1	1.57	0.52
1:2A:652(B):A:N6	1:2A:655:A:H1'	2.24	0.52
1:2A:2537:U:H2'	1:2A:2538:C:C6	2.45	0.52
2:2B:3:C:H1'	2:2B:119:G:H22	1.72	0.52
5:2F:64:ILE:HG21	5:2F:78:ILE:HG23	1.91	0.52
8:2I:4:ILE:HG12	8:2I:18:VAL:HG22	1.90	0.52
32:2a:537:G:H5''	43:2l:113:ARG:NH1	2.25	0.52
32:2a:741:G:H2'	32:2a:742:G:O4'	2.09	0.52
43:2l:11:VAL:HG11	48:2q:36:ILE:HG21	1.92	0.52
52:2u:6:ARG:HG2	52:2u:15:ARG:HD2	1.91	0.52
54:2w:9:A:O2'	54:2w:10:G:N7	2.43	0.52
1:1A:650:G:N7	11:1P:107:LYS:NZ	2.53	0.52
1:1A:2858:G:C8	15:1T:97:ALA:HB2	2.45	0.52
6:1G:109:VAL:HG23	26:14:33:VAL:HG11	1.91	0.52
1:2A:300:A:P	20:2Y:86:ARG:HH21	2.32	0.52
1:2A:1114:G:H2'	1:2A:1115:G:C8	2.44	0.52
1:2A:2751:G:H5'	7:2H:2:SER:HA	1.92	0.52
9:2N:137:LYS:NZ	9:2N:139:GLU:OE2	2.41	0.52
33:2b:178:ARG:NH2	39:2h:74:PRO:HB3	2.23	0.52
47:2p:58:TYR:O	47:2p:62:VAL:HG23	2.10	0.52
1:1A:239:G:P	30:18:13:ARG:HH22	2.33	0.52
1:1A:1228:G:O2'	25:13:29:ARG:NH1	2.41	0.52
1:1A:2453:C:OP2	1:1A:2598:C:O2'	2.26	0.52
4:1E:11:MET:HG2	4:1E:24:THR:HB	1.91	0.52
32:1a:186:C:H2'	32:1a:187:C:H6	1.73	0.52
35:1d:166:LYS:NZ	35:1d:179:GLU:OE2	2.37	0.52
1:2A:621:A:OP2	11:2P:108:LYS:NZ	2.40	0.52
1:2A:947:G:H2'	1:2A:948:G:C8	2.44	0.52
1:2A:1030:G:OP2	12:2Q:128:LYS:NZ	2.42	0.52
1:2A:2061:G:H5''	1:2A:2503:2MA:C2	2.39	0.52
32:2a:988:G:H4'	32:2a:1014:A:H61	1.75	0.52
32:2a:1152:A:OP1	41:2j:70:ARG:NH2	2.43	0.52
32:2a:1176:A:H2'	32:2a:1177:G:C8	2.45	0.52
32:2a:1310:G:H1	32:2a:1327:C:N4	2.08	0.52
32:2a:1517:G:H3'	32:2a:1518:MA6:H8	1.91	0.52
41:2j:46:ARG:HG2	41:2j:64:GLU:HB3	1.91	0.52
1:1A:268:G:H4'	23:11:81:LYS:HG2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1151:U:H2'	1:1A:1152:G:C8	2.41	0.52
1:1A:2724:U:O2'	1:1A:2725:A:OP2	2.23	0.52
6:1G:106:LEU:HA	6:1G:110:ALA:HB3	1.92	0.52
32:1a:890:G:O2'	32:1a:906:G:O6	2.22	0.52
32:1a:1030:C:H3'	32:1a:1030(A):G:H5''	1.92	0.52
9:2N:96:GLU:CD	9:2N:96:GLU:H	2.17	0.52
32:2a:34:C:H2'	32:2a:35:G:H8	1.73	0.52
32:2a:1118:C:OP1	40:2i:104:ARG:NH1	2.43	0.52
32:2a:1264:C:N4	32:2a:1272:G:O6	2.43	0.52
33:2b:24:TRP:CD1	33:2b:24:TRP:H	2.27	0.52
1:1A:2149:G:N2	1:1A:2183:C:N3	2.46	0.52
20:1Y:43:ASN:HB3	20:1Y:65:ALA:HB3	1.91	0.52
25:13:18:ASP:OD1	25:13:18:ASP:N	2.42	0.52
32:1a:96:U:H2'	32:1a:97:G:H8	1.75	0.52
32:1a:165:C:H2'	32:1a:166:G:H8	1.75	0.52
47:1p:20:VAL:HG23	47:1p:35:LYS:HA	1.92	0.52
1:2A:229:A:H5'	1:2A:230:U:OP1	2.10	0.52
1:2A:643:A:N1	1:2A:2369:A:O2'	2.39	0.52
2:2B:84:C:OP1	25:23:15:TYR:OH	2.21	0.52
9:2N:97:ARG:HA	9:2N:100:GLU:HB2	1.92	0.52
32:2a:501:C:H2'	32:2a:502:G:H8	1.73	0.52
32:2a:1030:C:N4	32:2a:1031:G:H1	2.08	0.52
7:1H:17:VAL:HG22	7:1H:26:VAL:HG22	1.92	0.52
11:1P:50:ARG:HD3	30:18:7:HIS:CD2	2.45	0.52
32:1a:445:G:H2'	32:1a:446:G:C8	2.45	0.52
32:1a:1223:C:P	50:1s:78:ARG:HH21	2.32	0.52
8:2I:5:LEU:HD11	8:2I:19:VAL:HG22	1.92	0.52
32:2a:1265:G:C2	32:2a:1271:G:C2	2.97	0.52
46:2o:60:VAL:O	46:2o:64:ARG:HG3	2.10	0.52
54:2y:9:A:H5''	54:2y:46:7MG:N3	2.25	0.52
1:1A:2157:A:H5'	1:1A:2182:G:H4'	1.92	0.52
1:1A:2418:U:OP1	61:1A:4257:HOH:O	2.19	0.52
33:1b:122:PHE:HE2	33:1b:139:LYS:HA	1.75	0.52
33:1b:201:ILE:HG21	33:1b:214:ILE:HG21	1.92	0.52
2:2B:105:A:H5'	2:2B:106:G:OP2	2.10	0.52
3:2D:3:VAL:HG13	3:2D:17:THR:HB	1.91	0.52
32:2a:67:C:H2'	32:2a:68:G:C8	2.45	0.52
32:2a:1256:A:H5'	32:2a:1258:G:O4'	2.10	0.52
32:2a:1346:A:N1	32:2a:1374:A:H5''	2.25	0.52
46:2o:68:ARG:NH1	61:2o:101:HOH:O	2.42	0.52
1:1A:1040:C:OP1	16:1U:53:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2702:C:OP2	13:1R:17:ARG:NH2	2.43	0.51
7:1H:124:GLU:HB2	7:1H:132:ARG:HB3	1.90	0.51
10:1O:2:ILE:HD12	10:1O:6:THR:HG21	1.91	0.51
18:1W:18:ARG:HG2	18:1W:76:VAL:HB	1.92	0.51
19:1X:57:LEU:HA	61:1X:3105:HOH:O	2.10	0.51
20:1Y:14:LEU:HB2	20:1Y:75:ILE:HD11	1.92	0.51
32:1a:193:C:H2'	32:1a:194:C:C6	2.44	0.51
32:1a:1347:G:O2'	32:1a:1373:G:O6	2.25	0.51
1:2A:686:G:N2	1:2A:788:A:H61	2.07	0.51
1:2A:2880:C:O3'	13:2R:90:ARG:NH1	2.43	0.51
32:2a:1159:U:O2	32:2a:1182:G:N1	2.43	0.51
1:1A:664:U:H2'	1:1A:665:C:C6	2.46	0.51
1:1A:811:A:H5'	3:1D:210:GLY:HA2	1.92	0.51
1:1A:2362:C:OP2	61:1A:4260:HOH:O	2.19	0.51
4:1E:116:VAL:HG13	4:1E:122:PHE:HB2	1.92	0.51
32:1a:648:A:H2'	32:1a:649:G:H8	1.75	0.51
48:1q:43:LEU:HD12	48:1q:68:ARG:HG2	1.92	0.51
55:1x:75:C:H5''	55:1x:76:A:OP2	2.10	0.51
1:2A:453:C:O2	1:2A:457:A:O2'	2.28	0.51
1:2A:839:U:H1'	1:2A:1191:G:H1'	1.92	0.51
1:2A:2114:A:N6	1:2A:2119:A:N7	2.58	0.51
1:2A:2787:C:H1'	4:2E:62:PRO:HG3	1.92	0.51
5:2F:140:LEU:HD11	5:2F:170:LEU:HD11	1.92	0.51
6:2G:83:ARG:N	6:2G:86:MET:SD	2.75	0.51
61:1A:4687:HOH:O	5:1F:44:ARG:HD2	2.11	0.51
4:1E:24:THR:HG22	4:1E:186:GLY:O	2.10	0.51
4:1E:29:GLY:HA3	61:1E:407:HOH:O	2.10	0.51
17:1V:76:LYS:HB2	17:1V:81:TYR:HB3	1.90	0.51
32:1a:926:G:O2'	53:1v:13:A:N3	2.39	0.51
32:1a:946:A:H2'	32:1a:947:G:C8	2.46	0.51
1:2A:647:G:N3	1:2A:2350:C:O2'	2.44	0.51
1:2A:2299:G:H2'	1:2A:2300:G:H8	1.75	0.51
1:2A:2638:G:P	4:2E:82:ARG:HH12	2.33	0.51
3:2D:127:VAL:HA	3:2D:193:VAL:HG23	1.91	0.51
4:2E:127:ASP:OD2	61:2E:401:HOH:O	2.18	0.51
17:2V:72:VAL:HG13	17:2V:85:LYS:HB3	1.92	0.51
32:2a:448:A:P	32:2a:485:G:H22	2.33	0.51
32:2a:677:U:H1'	42:2k:119:CYS:SG	2.50	0.51
33:2b:16:HIS:HB2	33:2b:204:ASN:CB	2.41	0.51
39:2h:51:VAL:HG21	39:2h:60:ARG:HB2	1.92	0.51
1:1A:142:G:H4'	19:1X:35:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:493:G:OP2	29:17:34:ARG:HD2	2.09	0.51
1:1A:1921:G:N3	1:1A:1921:G:H2'	2.24	0.51
1:1A:2699:U:OP2	61:1A:4259:HOH:O	2.19	0.51
11:1P:98:GLU:O	11:1P:101:VAL:HG12	2.10	0.51
21:1Z:1:MET:HG2	21:1Z:55:HIS:HB3	1.91	0.51
32:1a:1002:G:N7	32:1a:1003:G:H1'	2.25	0.51
37:1f:36:ARG:NH2	37:1f:66:GLU:OE1	2.44	0.51
1:2A:1266:G:O5'	18:2W:15:ARG:NH2	2.44	0.51
1:2A:2103:C:H2'	1:2A:2104:G:C8	2.45	0.51
6:2G:41:GLN:HB3	6:2G:43:LEU:HD13	1.92	0.51
32:2a:1145:C:H4'	32:2a:1146:A:H5'	1.92	0.51
33:2b:51:LEU:HD22	33:2b:55:PHE:HE2	1.76	0.51
36:2e:78:HIS:HE1	36:2e:143:ARG:N	2.03	0.51
1:1A:1058:U:O4	9:1N:28:THR:HG21	2.11	0.51
1:1A:2198:A:H2'	1:1A:2199:C:C6	2.46	0.51
6:1G:28:VAL:O	6:1G:31:VAL:HG12	2.10	0.51
54:1y:18:G:N1	54:1y:55:PSU:H1'	2.22	0.51
32:2a:674:G:H2'	32:2a:675:A:H8	1.76	0.51
50:2s:28:LYS:HB3	50:2s:29:ARG:HA	1.92	0.51
1:1A:1549:U:H2'	1:1A:1550:C:C6	2.45	0.51
1:1A:2044:U:O2'	1:1A:2629:C:H5'	2.10	0.51
8:1I:129:THR:HG22	8:1I:139:GLN:HE22	1.75	0.51
13:1R:2:ARG:HA	13:1R:5:LYS:HD2	1.93	0.51
21:1Z:126:VAL:HG13	21:1Z:161:VAL:HG23	1.93	0.51
32:1a:326:G:O6	61:1a:3435:HOH:O	2.17	0.51
32:1a:739:C:O2'	46:1o:42:HIS:ND1	2.42	0.51
1:2A:2105:C:H2'	1:2A:2106:G:C8	2.45	0.51
32:2a:1070:U:H2'	32:2a:1071:C:C6	2.43	0.51
44:2m:79:LYS:HA	44:2m:82:MET:HE2	1.92	0.51
45:2n:22:THR:HB	45:2n:33:VAL:HG21	1.93	0.51
49:2r:32:ARG:HA	49:2r:69:THR:HG21	1.93	0.51
1:1A:8:A:H2'	1:1A:9:U:C6	2.46	0.51
1:1A:54:G:O2'	1:1A:125:A:N1	2.38	0.51
1:1A:273:G:O2'	1:1A:274:U:H5''	2.10	0.51
1:1A:1716:A:H5''	1:1A:2562:G:OP1	2.11	0.51
8:1I:116:LEU:HD11	8:1I:120:ILE:HG13	1.92	0.51
32:1a:539:A:H2'	32:1a:540:G:C8	2.45	0.51
32:1a:736:C:H2'	32:1a:737:A:C8	2.45	0.51
1:2A:589:C:H2'	1:2A:590:A:C8	2.46	0.51
1:2A:2683:C:OP1	15:2T:53:ARG:NH2	2.40	0.51
19:2X:31:HIS:HD2	19:2X:33:LYS:H	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:28:6:THR:HG23	30:28:64:TYR:HD2	1.76	0.51
32:2a:9:G:H2'	32:2a:10:A:C8	2.44	0.51
50:2s:51:VAL:HB	50:2s:75:ALA:HB2	1.93	0.51
54:2w:4:U:H3	54:2w:69:A:H61	1.59	0.51
1:1A:1115:A:H2'	1:1A:1119:A:N7	2.26	0.51
17:1V:50:PRO:HG2	17:1V:51:VAL:HG12	1.92	0.51
32:1a:165:C:H2'	32:1a:166:G:C8	2.45	0.51
32:1a:677:U:H3	32:1a:713:G:H22	1.57	0.51
32:1a:1129:C:C5'	40:1i:16:ARG:HH12	2.23	0.51
33:1b:166:ASP:HB3	33:1b:169:LYS:HB3	1.92	0.51
35:1d:53:ASP:HB3	35:1d:57:ARG:NH1	2.26	0.51
39:1h:124:ALA:O	39:1h:128:GLY:N	2.40	0.51
1:2A:910:A:C5	12:2Q:13:GLN:HG3	2.46	0.51
1:2A:1171:G:H22	1:2A:1178:C:N4	2.09	0.51
1:2A:2431:U:OP1	61:2A:3960:HOH:O	2.19	0.51
44:2m:13:LYS:HA	44:2m:44:ARG:HH11	1.74	0.51
54:2y:51:C:O2	54:2y:63:G:N1	2.44	0.51
56:A:6:PRO:O	56:A:8:LYS:HG2	2.11	0.51
1:1A:641:G:OP1	5:1F:40:GLN:NE2	2.44	0.51
21:1Z:45:ASP:CG	21:1Z:49:ARG:HE	2.19	0.51
32:1a:343:U:H1'	32:1a:347:G:N2	2.26	0.51
32:1a:920:U:H2'	32:1a:921:U:C6	2.46	0.51
32:1a:973:G:H3'	32:1a:974:A:H5''	1.93	0.51
32:1a:1469:G:N7	61:1a:3497:HOH:O	2.35	0.51
40:1i:4:TYR:CZ	40:1i:88:TYR:HD1	2.29	0.51
1:2A:500:G:N1	1:2A:503:A:OP2	2.42	0.51
1:2A:1022:G:N7	9:2N:66:LYS:HE2	2.26	0.51
1:2A:1681:G:N2	61:2A:4104:HOH:O	2.43	0.51
1:2A:1798:U:H5'	3:2D:259:THR:CG2	2.37	0.51
1:2A:2318:G:H21	14:2S:3:ARG:HE	1.59	0.51
1:2A:2693:A:H2'	1:2A:2694:G:H8	1.73	0.51
33:2b:47:THR:O	33:2b:51:LEU:N	2.44	0.51
1:1A:1834:A:H4'	3:1D:259:THR:HG23	1.92	0.51
33:1b:92:TYR:HE1	33:1b:94:ASN:HB2	1.76	0.51
43:1l:88:GLY:O	43:1l:99:HIS:HD2	1.94	0.51
47:1p:58:TYR:O	47:1p:62:VAL:HG23	2.11	0.51
54:1w:2:G:O6	54:1w:71:C:N3	2.44	0.51
1:2A:1796:U:H2'	1:2A:1797:C:H6	1.76	0.51
1:2A:2705:A:OP2	61:2A:3961:HOH:O	2.19	0.51
4:2E:14:ILE:HG13	4:2E:21:VAL:HG13	1.93	0.51
33:2b:201:ILE:HG21	33:2b:214:ILE:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:2e:78:HIS:CD2	39:2h:104:ARG:HD2	2.46	0.51
39:2h:25:ASP:N	39:2h:25:ASP:OD1	2.44	0.51
1:1A:572:A:H1'	1:1A:573:G:OP1	2.11	0.50
1:1A:2328:C:O2'	6:1G:128:ARG:NH2	2.44	0.50
4:1E:121:ASN:ND2	61:1E:403:HOH:O	2.39	0.50
20:1Y:20:TYR:HB3	20:1Y:23:ARG:HD2	1.93	0.50
26:14:50:VAL:HG21	44:1m:65:LYS:HB3	1.92	0.50
28:16:19:ARG:HD3	61:16:203:HOH:O	2.11	0.50
37:1f:69:GLU:O	37:1f:72:VAL:HG12	2.11	0.50
54:1y:30:C:N3	54:1y:40:G:N2	2.57	0.50
1:2A:30:G:H2'	1:2A:31:C:C6	2.46	0.50
1:2A:652(T):C:H2'	1:2A:652(U):G:H8	1.76	0.50
1:2A:1028:A:N6	1:2A:1125:G:H2'	2.26	0.50
1:2A:1495:A:H2'	1:2A:1496:A:C8	2.47	0.50
32:2a:396:G:O2'	32:2a:398:C:OP1	2.23	0.50
1:1A:1068:G:N7	9:1N:66:LYS:HE2	2.26	0.50
1:1A:1221:G:N2	1:1A:1223:C:OP2	2.44	0.50
1:1A:2764:G:C4	7:1H:2:SER:HA	2.45	0.50
2:1B:13:A:N1	2:1B:69:G:O2'	2.36	0.50
32:1a:221:C:H2'	32:1a:222:U:C6	2.46	0.50
32:1a:721:G:H4'	32:1a:722:A:O4'	2.11	0.50
32:1a:1412:C:H2'	32:1a:1413:A:C8	2.46	0.50
33:1b:163:PHE:HD1	33:1b:185:ILE:HG13	1.76	0.50
44:1m:13:LYS:HA	44:1m:44:ARG:HH11	1.77	0.50
1:2A:1223:G:N2	1:2A:1226:A:OP2	2.39	0.50
1:2A:2126:A:N6	1:2A:2162:G:O2'	2.41	0.50
6:2G:37:VAL:HG22	6:2G:159:VAL:HG12	1.92	0.50
32:2a:953:G:H5'	32:2a:965:A:H61	1.75	0.50
32:2a:1328:C:H2'	32:2a:1329:A:O4'	2.11	0.50
32:2a:1366:C:H2'	32:2a:1367:C:C6	2.46	0.50
50:2s:28:LYS:HB3	50:2s:29:ARG:CA	2.42	0.50
1:1A:2803:A:H5'	1:1A:2902:G:H21	1.75	0.50
32:1a:636:U:H2'	32:1a:637:G:H8	1.76	0.50
1:2A:2033:A:O2'	1:2A:2035:G:OP2	2.24	0.50
1:2A:2364:C:H2'	1:2A:2365:G:O4'	2.11	0.50
32:2a:403:C:N4	61:2a:1946:HOH:O	2.45	0.50
42:2k:31:THR:HG22	42:2k:42:TRP:HB2	1.92	0.50
54:2w:54:5MU:C2	54:2w:58:A:N7	2.80	0.50
1:1A:1425:A:H4'	1:1A:1426:G:OP2	2.11	0.50
23:11:64:ALA:HA	23:11:67:ILE:HG13	1.94	0.50
32:1a:1008:C:O2	32:1a:1021:G:N1	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1e:152:ARG:HB3	39:1h:43:GLY:HA3	1.93	0.50
6:2G:145:THR:HG23	6:2G:148:MET:HE3	1.92	0.50
9:2N:67:LEU:O	9:2N:88:GLU:HG3	2.11	0.50
15:2T:24:PRO:HA	15:2T:49:VAL:HG23	1.94	0.50
15:2T:26:ASP:OD1	15:2T:120:ARG:NH2	2.38	0.50
15:2T:127:ALA:C	15:2T:129:ARG:N	2.69	0.50
27:25:16:ARG:HG3	27:25:17:ASP:N	2.26	0.50
32:2a:737:A:H2'	32:2a:738:C:H6	1.77	0.50
32:2a:1272:G:N2	32:2a:1273:G:C5	2.78	0.50
54:2y:5:G:C2	54:2y:6:A:H1'	2.46	0.50
11:1P:62:LEU:O	30:18:13:ARG:HD3	2.11	0.50
18:1W:65:LEU:HD12	18:1W:68:ARG:HE	1.76	0.50
30:18:6:THR:HG23	30:18:64:TYR:HD2	1.76	0.50
32:1a:1144:G:N2	32:1a:1146:A:H62	2.10	0.50
32:1a:1166:G:N2	32:1a:1170:A:OP2	2.44	0.50
33:1b:21:ARG:HB3	33:1b:39:ILE:HG12	1.92	0.50
36:1e:122:GLU:O	36:1e:126:ARG:NH1	2.44	0.50
32:2a:145:G:H1	32:2a:177:C:H42	1.58	0.50
32:2a:1271:G:C2	32:2a:1272:G:N7	2.79	0.50
32:2a:1360:A:OP2	45:2n:35:ARG:NH2	2.44	0.50
44:2m:78:ILE:HA	44:2m:81:LEU:HD12	1.94	0.50
1:1A:2011:G:OP1	56:B:4:PRO:HD2	2.12	0.50
1:1A:2150:C:H42	1:1A:2182:G:H1	1.58	0.50
3:1D:8:PRO:HB3	3:1D:14:ARG:CG	2.41	0.50
11:1P:82:GLY:HA2	11:1P:113:LYS:O	2.11	0.50
32:1a:353:A:N7	61:1a:3498:HOH:O	2.35	0.50
32:1a:562:C:H1'	43:1l:15:ARG:HB3	1.92	0.50
33:1b:118:LEU:HB3	33:1b:142:LEU:HD12	1.93	0.50
1:2A:852:G:H2'	1:2A:853:G:H8	1.77	0.50
6:2G:16:ARG:O	6:2G:20:ILE:HG13	2.12	0.50
6:2G:129:GLY:O	6:2G:161:THR:OG1	2.26	0.50
32:2a:1120:G:H2'	32:2a:1121:U:C6	2.46	0.50
32:2a:1245:A:H2'	32:2a:1246:C:O4'	2.10	0.50
33:2b:16:HIS:HB2	33:2b:204:ASN:HB3	1.93	0.50
34:2c:47:LEU:HB2	34:2c:52:LEU:HD12	1.94	0.50
48:2q:70:ARG:C	48:2q:71:PHE:HD1	2.19	0.50
52:2u:5:ASP:O	52:2u:11:GLY:HA3	2.12	0.50
56:C:1:LYS:HB2	56:C:9:IAR:HE	1.76	0.50
1:1A:2177:G:H3'	1:1A:2178:G:C8	2.47	0.50
32:1a:174:C:OP1	61:1a:3443:HOH:O	2.19	0.50
32:1a:1343:G:H2'	32:1a:1344:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:397:G:N7	61:2A:4033:HOH:O	2.34	0.50
1:2A:400:G:O6	61:2A:3946:HOH:O	2.16	0.50
1:2A:1777:U:H2'	1:2A:1778:U:C6	2.46	0.50
1:2A:2206:G:H3'	1:2A:2207:G:H8	1.76	0.50
1:2A:2811:G:N2	1:2A:2891:G:H1'	2.26	0.50
16:2U:17:ILE:HG13	16:2U:32:PHE:HE1	1.76	0.50
26:24:13:ARG:HG2	26:24:15:ILE:HD11	1.94	0.50
32:2a:1022:G:H2'	32:2a:1023:G:O4'	2.12	0.50
1:1A:2096:U:H2'	1:1A:2097:U:C6	2.46	0.50
4:1E:24:THR:HG23	4:1E:184:VAL:HG12	1.93	0.50
6:1G:126:ASP:HB2	6:1G:130:ASN:HB2	1.94	0.50
10:1O:48:PRO:CB	32:1a:1422:G:H5''	2.42	0.50
32:1a:78:G:C2	32:1a:91:C:N3	2.80	0.50
32:1a:1129:C:OP1	40:1i:66:ARG:NH1	2.45	0.50
1:2A:301:G:OP2	20:2Y:84:ARG:NH2	2.44	0.50
1:2A:832:G:H5'	11:2P:45:LEU:HD21	1.93	0.50
1:2A:854:G:H2'	1:2A:855:G:C8	2.46	0.50
1:2A:938:G:OP2	30:28:52:LYS:NZ	2.32	0.50
1:2A:2070:G:H2'	1:2A:2071:A:C8	2.46	0.50
3:2D:148:GLU:HB2	3:2D:151:LYS:HD2	1.92	0.50
32:2a:1128:C:H4'	32:2a:1148:U:O2	2.11	0.50
54:2w:51:C:N3	54:2w:63:G:N2	2.51	0.50
1:1A:1087:C:H42	1:1A:1160:G:H1	1.60	0.50
1:1A:1218:G:O2'	1:1A:1219:A:O4'	2.26	0.50
2:1B:106:G:O6	61:1B:302:HOH:O	2.18	0.50
35:1d:175:SER:HB3	35:1d:184:LYS:HB3	1.94	0.50
1:2A:2473:U:O2	1:2A:2473:U:H2'	2.11	0.50
6:2G:106:LEU:HA	6:2G:110:ALA:HB3	1.93	0.50
11:2P:59:LEU:HD22	11:2P:60:MET:HE2	1.94	0.50
19:2X:43:VAL:HG21	19:2X:81:VAL:HG21	1.94	0.50
21:2Z:74:VAL:HG13	21:2Z:86:VAL:HG22	1.93	0.50
31:29:2:LYS:NZ	31:29:31:LYS:O	2.37	0.50
1:1A:310:C:H2'	1:1A:311:C:C6	2.47	0.49
1:1A:2023:A:H2'	1:1A:2024:G:C8	2.47	0.49
16:1U:76:TYR:CZ	16:1U:80:ILE:HG13	2.47	0.49
32:1a:613:C:H2'	32:1a:614:A:H8	1.77	0.49
46:1o:82:ILE:O	46:1o:86:GLY:N	2.45	0.49
1:2A:2296:U:OP2	14:2S:9:ARG:NH2	2.43	0.49
4:2E:9:VAL:HB	15:2T:3:ARG:HG2	1.94	0.49
13:2R:103:ARG:NH1	13:2R:108:GLY:O	2.42	0.49
20:2Y:13:VAL:HB	20:2Y:72:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:105:VAL:N	21:2Z:139:VAL:O	2.45	0.49
32:2a:457:C:H2'	32:2a:458:C:H6	1.77	0.49
36:2e:148:VAL:HG21	39:2h:107:LEU:HD22	1.94	0.49
44:2m:39:ILE:HG12	44:2m:55:ARG:HH21	1.77	0.49
1:1A:555:G:N1	1:1A:2045:G:OP1	2.34	0.49
32:1a:542:G:P	35:1d:10:ARG:HH22	2.34	0.49
32:1a:731:G:H5'	32:1a:766:A:H4'	1.93	0.49
33:1b:92:TYR:CE1	33:1b:94:ASN:HB2	2.48	0.49
42:1k:27:ASN:OD1	42:1k:28:THR:N	2.43	0.49
1:2A:953:A:OP2	12:2Q:16:ARG:NH1	2.45	0.49
32:2a:108:G:N1	51:2t:15:ARG:HG2	2.26	0.49
39:2h:91:ARG:HD3	48:2q:32:TYR:O	2.12	0.49
41:2j:40:LEU:HB2	41:2j:69:ASN:HB2	1.94	0.49
54:2y:5:G:N2	54:2y:68:C:N3	2.50	0.49
1:1A:217:A:H3'	1:1A:218:A:C5'	2.42	0.49
1:1A:1108:G:H5''	1:1A:1116:A:H1'	1.95	0.49
1:1A:1338:U:H2'	1:1A:1339:C:C6	2.48	0.49
32:1a:1286:A:H2'	32:1a:1287:A:H4'	1.93	0.49
35:1d:79:PHE:HE1	35:1d:204:ILE:HD13	1.78	0.49
40:1i:50:LEU:HA	40:1i:53:VAL:HG22	1.93	0.49
43:1l:53:ARG:HB3	43:1l:69:TYR:HE1	1.76	0.49
1:2A:646:A:H2'	1:2A:647:G:O4'	2.13	0.49
1:2A:1220:A:OP2	16:2U:19:LYS:NZ	2.26	0.49
5:2F:165:ARG:HG2	5:2F:168:ARG:NH2	2.27	0.49
9:2N:4:TYR:CD2	16:2U:100:VAL:HG11	2.48	0.49
32:2a:980:C:H1'	45:2n:19:ARG:HA	1.94	0.49
38:2g:49:ILE:HA	38:2g:52:GLU:OE1	2.11	0.49
54:2y:11:C:H2'	54:2y:12:U:C6	2.48	0.49
1:1A:346:A:OP1	5:1F:168:ARG:HD2	2.13	0.49
1:1A:2153:G:H5'	1:1A:2155:G:C8	2.48	0.49
1:1A:2173:G:H2'	1:1A:2174:G:C8	2.48	0.49
2:1B:66:A:N6	2:1B:108:U:H2'	2.28	0.49
32:1a:68:G:H1	32:1a:101:A:H61	1.60	0.49
32:1a:1004:A:H61	32:1a:1036:G:H22	1.60	0.49
32:1a:1316:G:N7	50:1s:7:LYS:NZ	2.60	0.49
33:1b:76:GLN:HB2	33:1b:208:ILE:HG13	1.93	0.49
43:1l:54:LYS:HD2	43:1l:54:LYS:N	2.28	0.49
54:1w:18:G:O2'	54:1w:57:G:N2	2.32	0.49
3:2D:242:ARG:HH11	3:2D:242:ARG:N	2.08	0.49
7:2H:144:VAL:O	7:2H:148:ILE:HG13	2.13	0.49
12:2Q:43:THR:HA	12:2Q:94:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:2U:76:TYR:HH	16:2U:92:ARG:HE	1.60	0.49
32:2a:107:G:H2'	32:2a:108:G:O4'	2.12	0.49
36:2e:31:LEU:HD22	36:2e:43:LEU:HD11	1.94	0.49
36:2e:102:ALA:HB1	36:2e:106:PRO:HB2	1.94	0.49
1:1A:265:U:H2'	1:1A:266:C:C6	2.48	0.49
7:1H:33:LEU:HD21	7:1H:136:ILE:HG13	1.94	0.49
8:1I:99:GLU:HB3	8:1I:103:ARG:NH2	2.28	0.49
11:1P:63:PRO:HD3	30:18:27:THR:HG22	1.94	0.49
26:24:24:THR:OG1	26:24:25:TYR:N	2.31	0.49
32:2a:277:C:H5''	48:2q:68:ARG:NH2	2.27	0.49
32:2a:376:G:H5''	47:2p:5:ARG:HB2	1.95	0.49
32:2a:1009:G:H22	32:2a:1021:G:H1'	1.77	0.49
32:2a:1352:C:OP1	52:2u:3:LYS:NZ	2.46	0.49
1:1A:1052:C:O4'	9:1N:28:THR:OG1	2.31	0.49
1:1A:1159:U:H2'	1:1A:1160:G:C8	2.47	0.49
12:1Q:111:GLU:OE2	12:1Q:133:ARG:NH1	2.46	0.49
32:1a:886:G:OP2	61:1a:3442:HOH:O	2.19	0.49
32:1a:1219:U:OP1	45:1n:19:ARG:NH1	2.33	0.49
32:1a:1223:C:OP2	50:1s:78:ARG:NH2	2.41	0.49
1:2A:566:U:H5''	11:2P:29:LYS:HE3	1.95	0.49
1:2A:2168:G:H8	1:2A:2170:A:N7	2.10	0.49
3:2D:206:LEU:O	3:2D:211:ARG:HD3	2.13	0.49
8:2I:75:LEU:HD22	8:2I:105:HIS:CD2	2.48	0.49
12:2Q:30:GLY:HA2	12:2Q:107:ALA:HB2	1.94	0.49
27:25:2:ALA:N	61:25:201:HOH:O	2.44	0.49
32:2a:719:C:O2'	49:2r:49:LYS:HB3	2.12	0.49
34:2c:73:PRO:HB3	34:2c:103:VAL:HG11	1.94	0.49
1:1A:63:A:O3'	19:1X:71:GLY:HA3	2.13	0.49
1:1A:625:G:O2'	1:1A:702:A:N6	2.45	0.49
1:1A:2549:U:H2'	1:1A:2550:C:C6	2.48	0.49
4:1E:143:ASN:HD22	4:1E:147:PRO:HD3	1.77	0.49
32:1a:1006:C:N3	32:1a:1023:G:N2	2.61	0.49
2:2B:31:C:H4'	6:2G:29:TRP:CZ2	2.48	0.49
2:2B:41:U:H5	6:2G:70:VAL:H	1.60	0.49
3:2D:8:PRO:HB3	3:2D:14:ARG:HG2	1.94	0.49
32:2a:1106:G:H5''	34:2c:172:ARG:HB3	1.95	0.49
32:2a:1109:C:H2'	32:2a:1110:A:O4'	2.13	0.49
32:2a:1412:C:H2'	32:2a:1413:A:C8	2.47	0.49
33:2b:142:LEU:HA	33:2b:145:LEU:HD12	1.93	0.49
35:2d:50:ARG:HD2	35:2d:51:PRO:HD2	1.95	0.49
37:2f:97:PHE:HD2	49:2r:31:LEU:HD11	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:2t:98:PRO:O	51:2t:99:LEU:HB2	2.13	0.49
1:1A:1132:A:O2'	1:1A:1133:G:N7	2.44	0.49
1:1A:1814:A:H5'	1:1A:2620:G:H4'	1.94	0.49
1:1A:1821:C:H5''	1:1A:1822:A:OP1	2.12	0.49
32:1a:748:C:H4'	32:1a:749:C:O5'	2.12	0.49
54:1y:19:G:N1	54:1y:56:C:N4	2.61	0.49
1:2A:340:A:H2'	1:2A:341:G:O4'	2.13	0.49
1:2A:570:G:H2'	1:2A:2030:A:C5	2.47	0.49
1:2A:1932:A:H2'	1:2A:1933:G:O4'	2.12	0.49
15:2T:108:ARG:HH12	15:2T:112:ARG:NH1	2.10	0.49
55:2x:23:C:H2'	55:2x:24:U:C6	2.48	0.49
1:1A:1116:A:N7	1:1A:1142:A:O2'	2.27	0.49
1:1A:2339:A:H2'	1:1A:2340:A:C8	2.48	0.49
3:1D:2:ALA:HB3	3:1D:200:ASP:OD2	2.13	0.49
10:1O:17:ARG:HE	10:1O:47:ILE:HG23	1.78	0.49
15:1T:112:ARG:HG3	15:1T:115:ARG:NH2	2.26	0.49
32:1a:446:G:N7	61:1a:3500:HOH:O	2.35	0.49
32:1a:1215:G:OP1	61:1a:3445:HOH:O	2.20	0.49
1:2A:848:G:H2'	1:2A:849:A:C8	2.48	0.49
1:2A:1036:G:O6	61:2A:3950:HOH:O	2.17	0.49
30:28:26:LYS:HD2	30:28:48:PHE:CD2	2.48	0.49
32:2a:20:U:H2'	32:2a:21:G:O4'	2.12	0.49
32:2a:564:C:O2'	39:2h:91:ARG:NH1	2.44	0.49
32:2a:859:A:H2'	32:2a:860:A:O4'	2.13	0.49
32:2a:1327:C:H2'	32:2a:1328:C:C6	2.48	0.49
43:2l:113:ARG:HH21	43:2l:116:SER:HB2	1.77	0.49
1:1A:2128:G:H1	1:1A:2205:C:N4	2.06	0.49
1:1A:2227:G:H8	1:1A:2228:G:N7	2.10	0.49
32:1a:271:C:H2'	32:1a:272:C:C6	2.47	0.49
36:1e:116:THR:HG23	36:1e:117:ASP:OD2	2.13	0.49
1:2A:2135:A:C8	1:2A:2136:C:H5	2.30	0.49
6:2G:5:VAL:HG23	6:2G:8:LYS:H	1.77	0.49
22:20:10:THR:HG22	22:20:12:ASN:H	1.78	0.49
33:2b:97:TRP:HZ3	33:2b:172:ILE:HG22	1.78	0.49
55:2x:51:C:N4	55:2x:63:G:H1	2.10	0.49
1:1A:215:G:H21	1:1A:217:A:H62	1.61	0.48
1:1A:1410:G:P	23:11:3:LYS:HG3	2.52	0.48
1:1A:1889:G:N2	1:1A:1905:G:H2'	2.28	0.48
7:1H:3:ARG:NH1	7:1H:4:ILE:H	2.10	0.48
32:1a:153:C:H42	32:1a:168:G:H1	1.60	0.48
33:1b:59:GLU:HB2	33:1b:221:LEU:HD21	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:155:LEU:HD21	33:1b:159:PRO:HD3	1.94	0.48
34:1c:116:VAL:HG21	34:1c:202:ILE:HD11	1.93	0.48
38:1g:27:ILE:HA	38:1g:30:ILE:HD12	1.95	0.48
54:1y:44:G:H5'	54:1y:45:G:OP2	2.13	0.48
1:2A:218:A:C2	1:2A:235:U:H4'	2.48	0.48
1:2A:1667:G:O2'	1:2A:1991:U:O4	2.25	0.48
1:2A:2029:G:H2'	1:2A:2031:A:OP1	2.11	0.48
1:2A:2137:C:H1'	1:2A:2138:C:H5'	1.95	0.48
6:2G:116:ASP:OD2	44:2m:68:GLY:HA3	2.13	0.48
21:2Z:33:LEU:HD11	21:2Z:90:VAL:HG21	1.94	0.48
32:2a:501:C:H2'	32:2a:502:G:C8	2.47	0.48
32:2a:857:C:H2'	32:2a:858:G:O4'	2.13	0.48
32:2a:952:U:H2'	32:2a:953:G:H8	1.77	0.48
32:2a:1030(A):G:N1	32:2a:1030(D):A:OP2	2.43	0.48
32:2a:1251:A:H2'	32:2a:1252:A:C8	2.47	0.48
35:2d:107:ARG:NH2	35:2d:194:LEU:HD21	2.27	0.48
36:2e:7:GLU:OE1	36:2e:37:ARG:NE	2.43	0.48
37:2f:97:PHE:CD2	49:2r:31:LEU:HD11	2.47	0.48
40:2i:77:ILE:O	40:2i:81:ILE:HG23	2.13	0.48
51:2t:50:GLU:HB2	51:2t:99:LEU:HD22	1.95	0.48
55:2x:40:C:H2'	55:2x:41:C:C6	2.47	0.48
1:1A:1108:G:H1	1:1A:1123:A:H61	1.61	0.48
1:1A:1829:U:H5'	3:1D:259:THR:CG2	2.40	0.48
2:1B:24:G:N7	2:1B:56:G:H2'	2.28	0.48
11:1P:59:LEU:HD21	30:18:10:ALA:HA	1.94	0.48
20:1Y:99:CYS:HB2	20:1Y:106:LEU:HD21	1.96	0.48
32:1a:262:A:H2'	32:1a:263:A:C8	2.48	0.48
32:1a:341:C:H2'	32:1a:342:C:C6	2.48	0.48
32:1a:501:C:H2'	32:1a:502:G:H8	1.78	0.48
33:1b:19:HIS:NE2	33:1b:206:ASP:OD2	2.29	0.48
38:1g:28:ASN:HD21	38:1g:36:LYS:NZ	2.11	0.48
1:2A:676:A:H1'	1:2A:2443:C:H1'	1.95	0.48
1:2A:1429:G:H2'	1:2A:1430:C:C6	2.47	0.48
19:2X:60:ARG:HH22	29:27:47:ARG:NH1	2.09	0.48
34:2c:20:SER:HB3	34:2c:22:TRP:HE1	1.77	0.48
1:1A:217:A:C8	1:1A:218:A:H5'	2.48	0.48
1:1A:645:G:H5'	1:1A:645:G:N3	2.28	0.48
1:1A:2210:C:H2'	1:1A:2211:U:O4'	2.13	0.48
1:1A:2389:A:H2'	1:1A:2390:A:C8	2.48	0.48
1:1A:2434:A:O4'	54:1y:76:A:N6	2.46	0.48
1:1A:2744:G:OP1	4:1E:169:ASN:ND2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1H:56:SER:OG	7:1H:58:GLU:HG2	2.13	0.48
7:1H:127:GLU:OE2	7:1H:130:ARG:NE	2.33	0.48
12:1Q:134:ARG:NH2	21:1Z:122:ARG:HE	2.12	0.48
32:1a:715:A:H2'	32:1a:716:A:C8	2.48	0.48
32:1a:1162:C:H42	32:1a:1174:G:H1	1.59	0.48
1:2A:34:C:O2'	1:2A:35:G:OP1	2.26	0.48
1:2A:196:A:O2'	1:2A:805:G:O6	2.28	0.48
1:2A:661:C:H2'	1:2A:662:G:C8	2.48	0.48
32:2a:304:U:H2'	32:2a:305:G:C8	2.49	0.48
32:2a:1006:C:N4	32:2a:1022:G:O6	2.42	0.48
32:2a:1316:G:N2	32:2a:1318:A:H3'	2.27	0.48
35:2d:108:LEU:HD12	35:2d:174:LEU:HD13	1.94	0.48
45:2n:4:LYS:HA	45:2n:7:ILE:HG22	1.96	0.48
1:1A:1451:U:H2'	1:1A:1452:U:H6	1.78	0.48
1:1A:2121:U:O2	1:1A:2212:G:N2	2.31	0.48
1:1A:2298:A:H4'	1:1A:2299:A:O4'	2.12	0.48
1:1A:2695:C:OP1	15:1T:53:ARG:NH2	2.44	0.48
1:1A:2745:G:H3'	1:1A:2746:A:O4'	2.13	0.48
15:1T:24:PRO:HA	15:1T:49:VAL:HG23	1.94	0.48
32:1a:130:A:N3	32:1a:263:A:O2'	2.41	0.48
1:2A:458:G:O2'	1:2A:469:G:O6	2.30	0.48
1:2A:1608:A:H1'	1:2A:1610:A:OP2	2.14	0.48
2:2B:11:C:OP2	2:2B:12:C:N4	2.36	0.48
9:2N:123:TYR:CZ	9:2N:129:PRO:HD2	2.48	0.48
13:2R:44:LEU:HD22	13:2R:48:VAL:HG23	1.95	0.48
32:2a:1298:C:H2'	38:2g:114:ARG:HH12	1.78	0.48
40:2i:6:GLY:HA3	40:2i:80:GLY:O	2.13	0.48
50:2s:53:ASN:HB2	50:2s:77:THR:HA	1.95	0.48
1:1A:1207:C:O2'	17:1V:8:GLY:HA2	2.13	0.48
1:1A:1817:A:H1'	1:1A:1960:A:N6	2.28	0.48
1:1A:1952:G:O2'	1:1A:1990:G:O6	2.30	0.48
1:1A:2576:A:C2	1:1A:2659:U:H4'	2.49	0.48
1:1A:2760:G:O6	1:1A:2768:C:H5''	2.14	0.48
1:1A:2802:C:H1'	1:1A:2901:A:H2	1.78	0.48
18:1W:68:ARG:HH11	18:1W:111:HIS:HA	1.78	0.48
32:1a:765:G:H5''	32:1a:766:A:OP1	2.13	0.48
33:1b:74:LYS:HD2	33:1b:166:ASP:HB2	1.94	0.48
33:1b:208:ILE:H	33:1b:208:ILE:HD12	1.78	0.48
1:2A:1430:C:H2'	1:2A:1431:U:C6	2.48	0.48
1:2A:1826:G:H4'	3:2D:242:ARG:NH2	2.28	0.48
1:2A:2297:C:H5	14:2S:3:ARG:HH22	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2299:G:N1	1:2A:2318:G:N7	2.61	0.48
5:2F:150:GLY:HA2	5:2F:172:TRP:CD2	2.49	0.48
5:2F:197:ASP:OD1	5:2F:198:ALA:N	2.47	0.48
7:2H:159:GLU:HG3	7:2H:169:VAL:HG11	1.95	0.48
27:25:49:CYS:SG	27:25:51:TYR:HB2	2.54	0.48
32:2a:455:C:N4	32:2a:476:G:H1	2.09	0.48
32:2a:560:U:H4'	32:2a:561:U:O5'	2.13	0.48
34:2c:6:HIS:HB3	45:2n:49:HIS:ND1	2.29	0.48
36:2e:74:GLY:HA3	36:2e:116:THR:HG22	1.95	0.48
43:2l:37:CYS:SG	43:2l:81:SER:HB2	2.54	0.48
47:2p:19:ILE:N	47:2p:37:GLY:O	2.47	0.48
1:1A:1452:U:H2'	1:1A:1453:C:H6	1.76	0.48
1:1A:2205:C:H2'	1:1A:2206:G:C8	2.45	0.48
1:1A:2384:G:O6	61:1A:4251:HOH:O	2.17	0.48
3:1D:242:ARG:HG3	61:1D:3125:HOH:O	2.11	0.48
28:16:18:ARG:HD2	28:16:42:TRP:CD1	2.47	0.48
32:1a:134:A:H61	47:1p:25:ARG:NH1	2.12	0.48
38:1g:27:ILE:HD13	38:1g:40:ALA:HA	1.96	0.48
50:1s:63:THR:OG1	50:1s:65:ASN:OD1	2.23	0.48
1:2A:631:A:OP1	11:2P:65:ARG:NE	2.40	0.48
1:2A:1015:G:H2'	1:2A:1016:G:C8	2.47	0.48
1:2A:1479:G:H5'	1:2A:1558:A:C2	2.48	0.48
32:2a:942:G:C2	32:2a:1342:C:C2	3.02	0.48
32:2a:1129:C:H1'	32:2a:1146:A:H61	1.79	0.48
33:2b:139:LYS:NZ	33:2b:143:GLU:OE2	2.47	0.48
1:1A:236:G:H4'	1:1A:413:G:C5	2.48	0.48
7:1H:20:ALA:HB1	7:1H:21:PRO:HD2	1.95	0.48
21:1Z:105:VAL:N	21:1Z:139:VAL:O	2.43	0.48
23:11:8:SER:HB3	23:11:66:HIS:CD2	2.49	0.48
36:1e:82:VAL:HG21	36:1e:138:ALA:HA	1.94	0.48
37:1f:1:MET:HB3	37:1f:66:GLU:HG2	1.95	0.48
47:1p:20:VAL:HG21	47:1p:32:TYR:CD2	2.48	0.48
54:1y:53:G:H1	54:1y:61:C:H42	1.61	0.48
6:2G:179:PRO:HG3	26:24:43:TYR:OH	2.14	0.48
16:2U:10:ARG:NH1	61:2U:5002:HOH:O	2.47	0.48
25:23:6:VAL:HG12	25:23:28:LEU:HD11	1.94	0.48
32:2a:46:G:O2'	32:2a:365:U:H1'	2.14	0.48
32:2a:1061:G:H1'	41:2j:56:HIS:CE1	2.49	0.48
32:2a:1095:U:P	32:2a:1108:G:H1	2.37	0.48
32:2a:1182:G:H4'	32:2a:1183:A:H5''	1.95	0.48
44:2m:80:ARG:NH2	50:2s:65:ASN:O	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:213:G:H2'	1:1A:214:A:O4'	2.13	0.48
7:1H:154:PRO:HB3	7:1H:163:TYR:CE1	2.49	0.48
15:1T:29:ARG:NH2	15:1T:46:GLU:OE1	2.44	0.48
15:1T:56:GLY:O	15:1T:59:THR:HG22	2.14	0.48
30:18:63:PRO:HG2	30:18:64:TYR:CE2	2.48	0.48
32:1a:767:A:H2'	32:1a:768:A:O4'	2.14	0.48
32:1a:831:U:H2'	32:1a:832:C:C6	2.49	0.48
32:1a:1001(A):G:H2'	32:1a:1002:G:O4'	2.14	0.48
34:1c:162:GLN:NE2	53:1v:24:C:O2'	2.47	0.48
44:1m:34:LEU:HD13	44:1m:41:PRO:HA	1.94	0.48
48:1q:53:LEU:HD23	48:1q:82:MET:HE1	1.95	0.48
1:2A:1818:U:OP2	3:2D:157:ARG:HD3	2.14	0.48
1:2A:2153:G:N2	1:2A:2154:G:H1'	2.28	0.48
1:2A:2166:G:H5'	1:2A:2167:U:OP2	2.14	0.48
32:2a:583:A:H2'	32:2a:584:G:O4'	2.14	0.48
32:2a:1004:A:N3	32:2a:1038:C:C2	2.81	0.48
32:2a:1028:C:N4	32:2a:1033:G:H1	2.09	0.48
54:2y:50:G:N2	54:2y:64:U:O2	2.30	0.48
1:1A:441:C:H4'	1:1A:1901:C:O2	2.14	0.48
1:1A:929:G:H1	1:1A:940:C:N4	2.09	0.48
1:1A:1566:U:H2'	1:1A:1567:G:O4'	2.14	0.48
20:1Y:47:LYS:NZ	20:1Y:48:ALA:O	2.38	0.48
21:1Z:153:SER:HA	21:1Z:167:PRO:HB3	1.94	0.48
32:1a:540:G:H2'	32:1a:541:G:O4'	2.13	0.48
32:1a:742:G:OP2	46:1o:35:ARG:NH2	2.41	0.48
32:1a:983:A:H5''	32:1a:984:C:OP2	2.14	0.48
32:1a:1038:C:H2'	32:1a:1039:C:H6	1.78	0.48
32:1a:1129:C:O2'	32:1a:1139:G:N7	2.42	0.48
1:2A:143:G:H2'	1:2A:143(A):C:H6	1.76	0.48
1:2A:2749:A:H4'	7:2H:62:LYS:HB3	1.95	0.48
32:2a:417:C:H2'	32:2a:418:C:H6	1.78	0.48
32:2a:714:G:H2'	32:2a:715:A:C8	2.49	0.48
32:2a:1348:U:H4'	40:2i:120:ARG:HD2	1.96	0.48
32:2a:1426:C:H42	32:2a:1474:G:H1	1.60	0.48
36:2e:31:LEU:HD11	36:2e:129:ILE:HA	1.96	0.48
40:2i:50:LEU:HD12	40:2i:51:ARG:HG3	1.94	0.48
40:2i:117:HIS:HB2	40:2i:121:ARG:HG3	1.95	0.48
56:B:3:ORD:HB2	56:B:4:PRO:HD3	1.96	0.48
1:1A:477:C:H5'	61:1A:4433:HOH:O	2.14	0.48
1:1A:1513:G:O2'	1:1A:1593:C:O2'	2.28	0.48
1:1A:1895:U:OP1	1:1A:2422:G:O2'	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:28:ALA:HB3	4:1E:93:VAL:CG1	2.44	0.48
20:1Y:43:ASN:HD22	20:1Y:43:ASN:HA	1.53	0.48
22:10:26:TYR:O	22:10:29:GLN:HB2	2.13	0.48
32:1a:269:C:H2'	32:1a:270:A:H8	1.79	0.48
33:1b:16:HIS:HB2	33:1b:204:ASN:HB3	1.96	0.48
34:1c:73:PRO:O	34:1c:77:ILE:HG12	2.13	0.48
42:1k:18:ARG:HB2	42:1k:33:THR:OG1	2.14	0.48
1:2A:1187:G:H5'	17:2V:81:TYR:CE1	2.48	0.48
8:2I:53:ALA:O	8:2I:57:ARG:HG2	2.14	0.48
15:2T:11:GLU:O	15:2T:15:VAL:HG23	2.14	0.48
32:2a:165:C:H2'	32:2a:166:G:C8	2.49	0.48
32:2a:707:C:H2'	32:2a:708:C:H6	1.79	0.48
32:2a:1318:A:H4'	50:2s:10:PHE:CE2	2.49	0.48
33:2b:17:PHE:HA	33:2b:44:LEU:HD11	1.96	0.48
33:2b:22:LYS:HA	33:2b:24:TRP:HD1	1.79	0.48
42:2k:52:GLY:H	42:2k:55:LYS:HE3	1.79	0.48
54:2w:6:A:H2'	54:2w:7:U:H5''	1.95	0.48
1:1A:843:C:H2'	1:1A:844:C:C6	2.49	0.47
1:1A:939:C:H2'	1:1A:940:C:C6	2.49	0.47
1:1A:1556:A:H3'	1:1A:1557:A:H8	1.79	0.47
1:1A:1558:G:H2'	1:1A:1559:C:C6	2.49	0.47
1:1A:2584:A:C8	4:1E:144:ARG:HD3	2.48	0.47
13:1R:2:ARG:HD2	61:1R:310:HOH:O	2.12	0.47
32:1a:236:G:H5''	48:1q:42:TYR:OH	2.14	0.47
32:1a:262:A:C6	32:1a:263:A:C6	3.02	0.47
37:1f:97:PHE:HD2	49:1r:31:LEU:HD11	1.79	0.47
1:2A:307:G:H21	1:2A:330:A:H62	1.62	0.47
1:2A:1406:U:H2'	1:2A:1407:C:C6	2.48	0.47
5:2F:150:GLY:HA2	5:2F:172:TRP:CE3	2.48	0.47
21:2Z:154:ASP:OD1	21:2Z:154:ASP:N	2.39	0.47
30:28:33:ASN:HA	30:28:36:LYS:HD2	1.96	0.47
32:2a:107:G:N7	51:2t:15:ARG:NH2	2.61	0.47
32:2a:412:A:C6	35:2d:35:ARG:HG3	2.48	0.47
32:2a:976:G:C8	32:2a:1358:U:C2	3.02	0.47
32:2a:1060:C:H5''	41:2j:51:ARG:HG2	1.94	0.47
32:2a:1218:C:OP2	45:2n:9:LYS:NZ	2.37	0.47
1:1A:776:G:C6	3:1D:208:LYS:HB2	2.49	0.47
1:1A:1495:G:O2'	1:1A:1575:A:N1	2.45	0.47
1:1A:2128:G:H2'	1:1A:2129:C:H6	1.79	0.47
1:1A:2444:A:N9	23:11:33:LYS:HD3	2.29	0.47
4:1E:1:MET:HE3	4:1E:199:ARG:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1E:170:LEU:HB3	4:1E:184:VAL:HG22	1.96	0.47
9:1N:137:LYS:NZ	9:1N:139:GLU:OE2	2.47	0.47
35:1d:18:LYS:HE3	35:1d:31:CYS:SG	2.55	0.47
1:2A:848:G:N9	1:2A:933:A:H8	2.13	0.47
1:2A:2218:U:N3	23:21:55:GLY:O	2.48	0.47
13:2R:83:ILE:O	13:2R:86:ARG:HG2	2.13	0.47
18:2W:10:VAL:HG12	18:2W:12:ILE:HG22	1.96	0.47
32:2a:34:C:H2'	32:2a:35:G:C8	2.48	0.47
32:2a:352:C:O2'	32:2a:354:G:OP1	2.29	0.47
32:2a:947:G:N2	32:2a:1234:C:N3	2.53	0.47
32:2a:978:A:N6	32:2a:1318:A:N7	2.62	0.47
40:2i:17:VAL:HG11	40:2i:81:ILE:HG22	1.95	0.47
54:2y:19:G:N1	54:2y:56:C:N4	2.51	0.47
13:1R:12:ARG:O	13:1R:17:ARG:NH1	2.47	0.47
32:1a:1104:G:H4'	33:1b:111:ARG:NH2	2.29	0.47
1:2A:729:G:C6	3:2D:208:LYS:HB2	2.49	0.47
1:2A:2143:C:H2'	1:2A:2144:U:O4'	2.14	0.47
7:2H:4:ILE:O	7:2H:69:ARG:HD2	2.14	0.47
16:2U:106:PHE:O	16:2U:110:VAL:HG23	2.15	0.47
32:2a:959:A:HO2'	32:2a:984:C:HO2'	1.55	0.47
32:2a:1169:A:H2'	32:2a:1170:A:O4'	2.14	0.47
32:2a:1190:G:H5'	34:2c:176:HIS:CE1	2.46	0.47
32:2a:1352:C:H2'	32:2a:1353:G:C8	2.49	0.47
32:2a:1366:C:HO2'	41:2j:60:ARG:HH22	1.61	0.47
32:2a:1513:A:H2'	32:2a:1514:C:C6	2.49	0.47
34:2c:52:LEU:HD21	34:2c:55:VAL:HG23	1.95	0.47
35:2d:173:TRP:CD1	35:2d:174:LEU:HG	2.50	0.47
39:2h:6:ILE:O	39:2h:10:LEU:HG	2.14	0.47
54:2w:29:U:H2'	54:2w:30:C:C6	2.49	0.47
1:1A:821:A:H2'	1:1A:821:A:N3	2.28	0.47
1:1A:1740:U:O2'	3:1D:14:ARG:NH2	2.45	0.47
1:1A:2430:A:H2'	1:1A:2431:U:C6	2.49	0.47
1:1A:2623:U:H6	1:1A:2623:U:H5'	1.79	0.47
1:1A:2766:A:N3	31:19:15:LYS:NZ	2.62	0.47
33:1b:87:ARG:CZ	33:1b:233:SER:HB3	2.44	0.47
37:1f:76:ALA:O	37:1f:80:ARG:HG3	2.15	0.47
51:1t:29:LYS:O	51:1t:33:ILE:HG13	2.15	0.47
1:2A:531:C:H4'	1:2A:532:A:H5''	1.96	0.47
1:2A:1354:A:O3'	3:2D:38:LYS:HE3	2.14	0.47
2:2B:63:G:H8	2:2B:63:G:OP2	1.97	0.47
39:2h:28:ALA:HB3	39:2h:57:PRO:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:119:G:H4'	1:1A:149:A:H5'	1.96	0.47
1:1A:302:A:H2'	1:1A:303:C:C6	2.49	0.47
1:1A:335:A:OP2	61:1A:4263:HOH:O	2.20	0.47
1:1A:1077:G:H5''	31:19:8:LYS:HE3	1.95	0.47
1:1A:2175:G:H2'	1:1A:2176:G:C8	2.49	0.47
11:1P:42:SER:O	61:1P:302:HOH:O	2.20	0.47
32:1a:408:A:H2'	32:1a:409:G:O4'	2.14	0.47
32:1a:1237:C:H3'	32:1a:1336:C:H41	1.79	0.47
40:1i:9:ARG:HG2	40:1i:14:VAL:HG12	1.96	0.47
55:1x:8:4SU:O5'	55:1x:8:4SU:H6	2.14	0.47
1:2A:271(V):G:H2'	1:2A:271(W):G:O4'	2.15	0.47
1:2A:1005:C:H2'	1:2A:1006:C:C6	2.50	0.47
1:2A:1665:A:H4'	10:2O:67:LYS:HB2	1.96	0.47
1:2A:2286:A:H4'	1:2A:2287:A:O4'	2.15	0.47
1:2A:2379:G:HO2'	14:2S:17:ARG:HH12	1.61	0.47
13:2R:36:THR:HG22	13:2R:37:THR:H	1.79	0.47
32:2a:660:G:H1	32:2a:745:C:H42	1.62	0.47
32:2a:1270:C:H2'	32:2a:1271:G:C8	2.50	0.47
32:2a:1479:C:H2'	32:2a:1480:G:H8	1.80	0.47
20:1Y:9:LYS:HA	20:1Y:10:GLY:HA2	1.68	0.47
22:10:49:LYS:HG2	22:10:50:ASN:ND2	2.30	0.47
32:1a:266:G:O3'	48:1q:67:LYS:HB2	2.14	0.47
32:1a:648:A:H2'	32:1a:649:G:C8	2.50	0.47
49:1r:38:GLU:HA	49:1r:41:LYS:HE3	1.96	0.47
54:1y:40:G:H2'	54:1y:41:A:H8	1.79	0.47
1:2A:1469:A:H2'	1:2A:1470:G:O4'	2.14	0.47
1:2A:2845:G:H2'	1:2A:2846:G:C8	2.50	0.47
7:2H:20:ALA:HB3	7:2H:23:ARG:HG3	1.96	0.47
32:2a:116:A:H61	32:2a:313:A:H1'	1.80	0.47
32:2a:359:U:H2'	32:2a:360:A:C8	2.49	0.47
32:2a:619:U:N3	35:2d:134:ASP:OD1	2.40	0.47
32:2a:923:A:O2'	32:2a:1399:C:OP2	2.30	0.47
32:2a:1000:U:H3	32:2a:1041:A:N6	2.11	0.47
34:2c:164:ARG:HG2	34:2c:165:THR:H	1.79	0.47
1:1A:303:C:N3	1:1A:385:G:N2	2.46	0.47
1:1A:310:C:H2'	1:1A:311:C:H6	1.79	0.47
1:1A:594:A:O2'	17:1V:78:LYS:HE2	2.15	0.47
1:1A:609:A:H5'	5:1F:89:VAL:HG21	1.97	0.47
1:1A:1003:U:H5'	12:1Q:14:ARG:HD3	1.97	0.47
1:1A:1014:U:H2'	1:1A:1015:C:C6	2.50	0.47
1:1A:1036:A:OP2	61:1A:4262:HOH:O	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1320:A:N3	1:1A:1343:C:H1'	2.30	0.47
1:1A:1475:G:H2'	1:1A:1476:C:H6	1.80	0.47
1:1A:2346:G:H5'	14:1S:9:ARG:HG2	1.96	0.47
1:1A:2695:C:O2	10:1O:70:LYS:NZ	2.35	0.47
10:1O:24:VAL:HG13	10:1O:33:ALA:HB2	1.97	0.47
32:1a:164:U:H2'	32:1a:165:C:C6	2.50	0.47
32:1a:501:C:H2'	32:1a:502:G:C8	2.50	0.47
32:1a:652:U:O4	32:1a:752:G:O2'	2.31	0.47
32:1a:749:C:OP1	61:1a:3403:HOH:O	2.20	0.47
32:1a:1095:U:P	32:1a:1108:G:H1	2.38	0.47
32:1a:1127:G:H5'	32:1a:1280:A:O2'	2.15	0.47
32:1a:1174:G:H2'	32:1a:1175:G:H8	1.80	0.47
33:1b:55:PHE:HE1	33:1b:218:ALA:HA	1.79	0.47
33:1b:101:MET:HE2	33:1b:152:PHE:CD1	2.50	0.47
33:1b:109:SER:O	33:1b:112:VAL:HG22	2.14	0.47
44:1m:11:ARG:HA	44:1m:45:VAL:HB	1.96	0.47
1:2A:71:A:N7	19:2X:31:HIS:HE1	2.12	0.47
1:2A:271(M):G:H3'	1:2A:271(M):G:OP2	2.14	0.47
1:2A:322:A:OP1	5:2F:168:ARG:HD2	2.15	0.47
1:2A:705:A:C2	1:2A:727:A:H1'	2.50	0.47
1:2A:994:C:O2'	1:2A:996:A:OP1	2.21	0.47
1:2A:1518:U:H2'	1:2A:1519:G:O4'	2.15	0.47
1:2A:1782:C:OP1	61:2A:3939:HOH:O	2.21	0.47
1:2A:1794:U:H2'	1:2A:1795:C:H6	1.78	0.47
1:2A:2274:A:C5	1:2A:2276:G:C8	3.03	0.47
7:2H:164:TYR:HB2	7:2H:167:GLU:HB2	1.96	0.47
32:2a:546:G:OP1	35:2d:73:ARG:HG2	2.15	0.47
32:2a:922:G:N3	32:2a:1398:A:H2	2.13	0.47
32:2a:1306:A:H1'	32:2a:1332:A:C2	2.50	0.47
33:2b:132:LYS:O	33:2b:136:VAL:N	2.39	0.47
34:2c:44:GLU:HA	34:2c:52:LEU:HD13	1.97	0.47
35:2d:8:VAL:HG22	35:2d:21:LEU:HD13	1.97	0.47
35:2d:150:GLU:HA	35:2d:153:ARG:HG3	1.97	0.47
37:2f:13:ASN:ND2	37:2f:55:ASP:OD2	2.47	0.47
42:2k:33:THR:HG22	42:2k:39:PRO:HA	1.96	0.47
45:2n:29:ARG:HD3	45:2n:40:CYS:SG	2.55	0.47
1:1A:794:U:H1'	18:1W:92:ARG:HH12	1.78	0.47
1:1A:1115:A:O2'	1:1A:1118:C:OP1	2.31	0.47
1:1A:1440:U:H2'	1:1A:1441:A:O4'	2.15	0.47
1:1A:1627:A:OP2	1:1A:1627:A:H8	1.97	0.47
6:1G:47:LYS:NZ	6:1G:80:PHE:O	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1G:131:TYR:HB3	6:1G:159:VAL:CG2	2.45	0.47
16:1U:97:ASP:OD1	16:1U:101:ARG:NH1	2.48	0.47
32:1a:437:U:O2	35:1d:119:GLN:NE2	2.48	0.47
32:1a:719:C:O2'	49:1r:49:LYS:HB3	2.14	0.47
32:1a:743:U:H2'	32:1a:744:C:C6	2.50	0.47
32:1a:1015:A:H2'	32:1a:1016:A:C8	2.49	0.47
33:1b:87:ARG:NH2	33:1b:220:ASP:OD1	2.41	0.47
38:1g:16:LEU:HD21	40:1i:45:ALA:HB2	1.95	0.47
40:1i:28:VAL:HA	40:1i:63:ILE:O	2.14	0.47
1:2A:27:G:O2'	1:2A:28:A:OP2	2.29	0.47
1:2A:208:C:H2'	1:2A:209:C:C6	2.50	0.47
1:2A:236:C:H2'	1:2A:237:C:H6	1.80	0.47
7:2H:56:SER:OG	7:2H:61:HIS:ND1	2.40	0.47
33:2b:19:HIS:CD2	33:2b:20:GLU:HG3	2.50	0.47
33:2b:109:SER:O	33:2b:112:VAL:HG22	2.15	0.47
36:2e:34:VAL:HG21	36:2e:63:ARG:HE	1.79	0.47
42:2k:81:ASP:OD1	42:2k:106:LYS:HB2	2.15	0.47
1:1A:347:G:C8	5:1F:171:PRO:HG3	2.50	0.47
1:1A:1314:A:C2	1:1A:2035:A:C4	3.03	0.47
8:1I:109:ILE:HD12	8:1I:130:TYR:CZ	2.49	0.47
19:1X:51:VAL:HG13	19:1X:81:VAL:HG13	1.97	0.47
39:1h:104:ARG:HA	39:1h:104:ARG:HD3	1.60	0.47
55:1x:8:4SU:O2	55:1x:21:A:C2	2.54	0.47
1:2A:192:C:O2'	1:2A:802:A:N3	2.43	0.47
1:2A:2168:G:H8	1:2A:2170:A:C8	2.33	0.47
1:2A:2646:C:H2'	1:2A:2647:U:O4'	2.15	0.47
4:2E:1:MET:HE3	4:2E:199:ARG:HD2	1.96	0.47
10:2O:73:ASP:OD2	15:2T:32:TYR:OH	2.29	0.47
11:2P:121:LYS:O	11:2P:123:LEU:N	2.47	0.47
15:2T:49:VAL:HG12	15:2T:63:VAL:HG22	1.97	0.47
32:2a:601:C:H2'	32:2a:602:A:C8	2.50	0.47
32:2a:1051:C:H2'	32:2a:1052:U:C6	2.50	0.47
32:2a:1275:A:H3'	32:2a:1276:G:H8	1.79	0.47
33:2b:178:ARG:NH1	39:2h:68:ARG:HH22	2.10	0.47
35:2d:4:TYR:O	35:2d:5:ILE:HG22	2.15	0.47
35:2d:72:GLU:OE2	35:2d:207:TYR:OH	2.28	0.47
36:2e:100:VAL:O	36:2e:107:ARG:NH1	2.44	0.47
37:2f:100:ASN:HD21	49:2r:23:LYS:HG2	1.80	0.47
48:2q:58:GLU:OE1	48:2q:75:ARG:NE	2.48	0.47
54:2y:56:C:H2'	54:2y:57:G:O4'	2.14	0.47
54:2y:65:C:H2'	54:2y:66:A:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:174:U:H4'	1:1A:207:A:H4'	1.97	0.47
1:1A:599:U:H2'	1:1A:600:G:C8	2.50	0.47
1:1A:956:A:C5	12:1Q:13:GLN:HG3	2.50	0.47
1:1A:957:A:H2'	12:1Q:9:TYR:OH	2.14	0.47
1:1A:1117:G:H2'	1:1A:1118:C:C6	2.49	0.47
1:1A:1831:C:OP1	3:1D:260:ARG:NH2	2.48	0.47
1:1A:1979:C:H2'	1:1A:1980:C:C6	2.50	0.47
2:1B:1:U:O2'	2:1B:2:C:OP1	2.31	0.47
5:1F:110:LEU:HD11	5:1F:181:LEU:HG	1.96	0.47
13:1R:83:ILE:O	13:1R:86:ARG:HG2	2.15	0.47
16:1U:58:ARG:HA	16:1U:61:TRP:CE3	2.50	0.47
32:1a:17:U:H2'	32:1a:18:C:C6	2.50	0.47
32:1a:559:A:OP1	36:1e:126:ARG:NH2	2.46	0.47
33:1b:87:ARG:NH2	33:1b:233:SER:HB3	2.30	0.47
1:2A:195:A:H61	1:2A:198:C:H3'	1.80	0.47
5:2F:110:LEU:HD11	5:2F:181:LEU:HG	1.96	0.47
12:2Q:110:THR:HG23	12:2Q:113:GLN:OE1	2.15	0.47
32:2a:309:G:O2'	32:2a:607:A:N1	2.48	0.47
32:2a:393:A:OP1	61:2a:1915:HOH:O	2.21	0.47
32:2a:1279:A:P	41:2j:9:ARG:HH22	2.38	0.47
32:2a:1298:C:OP2	38:2g:114:ARG:NH2	2.48	0.47
39:2h:49:GLU:HG2	39:2h:62:TYR:HE2	1.80	0.47
1:1A:472:G:OP1	16:1U:3:ARG:NH1	2.47	0.46
1:1A:667:G:N2	1:1A:670:C:OP2	2.45	0.46
1:1A:941:U:H4'	1:1A:942:A:OP1	2.15	0.46
1:1A:2147:G:H1'	1:1A:2195:A:N6	2.30	0.46
1:1A:2545:A:H2'	1:1A:2546:A:O4'	2.14	0.46
1:1A:2647:C:O2'	4:1E:80:GLU:OE2	2.29	0.46
2:1B:15:A:OP1	2:1B:108:U:O2'	2.28	0.46
24:12:16:LEU:HD22	24:12:20:GLU:HB3	1.96	0.46
32:1a:447:G:O6	32:1a:485:G:O2'	2.27	0.46
32:1a:1162:C:N4	32:1a:1174:G:H1	2.13	0.46
1:2A:861:A:N3	2:2B:79:C:O2'	2.46	0.46
1:2A:1149:G:H2'	1:2A:1150:C:C6	2.51	0.46
1:2A:1171:G:H22	1:2A:1178:C:H42	1.63	0.46
1:2A:1952:A:OP1	10:2O:42:SER:OG	2.30	0.46
32:2a:392:G:H2'	32:2a:393:A:C8	2.49	0.46
32:2a:737:A:H1'	37:2f:73:ASN:HD21	1.80	0.46
32:2a:986:A:H1'	50:2s:54:GLY:O	2.15	0.46
32:2a:1063:C:H3'	32:2a:1064:G:H2'	1.97	0.46
32:2a:1084:G:C5	32:2a:1085:U:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1097:C:H1'	32:2a:1170:A:H1'	1.97	0.46
1:1A:602:G:H2'	1:1A:603:C:C6	2.50	0.46
1:1A:605:G:OP2	61:1A:4261:HOH:O	2.20	0.46
1:1A:1735:U:O2	1:1A:1747:A:H5'	2.16	0.46
1:1A:1742:G:N7	3:1D:14:ARG:NH2	2.63	0.46
33:1b:126:GLU:HB3	33:1b:127:ILE:H	1.61	0.46
33:1b:167:PRO:O	33:1b:171:ALA:N	2.48	0.46
36:1e:33:VAL:HG13	36:1e:112:LEU:HD12	1.96	0.46
39:1h:19:VAL:HG23	39:1h:21:LYS:HG2	1.97	0.46
39:1h:51:VAL:HG12	39:1h:52:ASP:N	2.31	0.46
1:2A:249:C:O2	30:28:12:LYS:NZ	2.40	0.46
1:2A:657:U:H2'	1:2A:658:C:C6	2.50	0.46
1:2A:815:C:H2'	1:2A:816:C:C6	2.50	0.46
29:27:12:ARG:NH2	29:27:44:PRO:HB3	2.31	0.46
32:2a:269:C:H2'	32:2a:270:A:C8	2.51	0.46
32:2a:946:A:H2'	32:2a:947:G:C8	2.50	0.46
32:2a:1225:A:H2'	32:2a:1226:C:C5	2.51	0.46
32:2a:1318:A:H4'	50:2s:10:PHE:CD2	2.50	0.46
32:2a:1323:G:H2'	32:2a:1324:A:C8	2.50	0.46
32:2a:1490:C:H2'	32:2a:1491:G:O4'	2.14	0.46
41:2j:78:ASN:O	41:2j:80:LYS:N	2.49	0.46
54:2y:33:U:H1'	54:2y:36:C:H41	1.80	0.46
1:1A:646:A:OP2	11:1P:108:LYS:NZ	2.48	0.46
1:1A:2250:G:N3	1:1A:2250:G:H2'	2.29	0.46
1:1A:2658:C:H2'	1:1A:2659:U:O4'	2.15	0.46
32:1a:7:G:O2'	36:1e:120:THR:O	2.33	0.46
1:2A:11:G:O5'	1:2A:11:G:H8	1.99	0.46
1:2A:2320:A:N3	1:2A:2320:A:H2'	2.30	0.46
5:2F:192:LEU:HD22	5:2F:194:MET:HE2	1.98	0.46
21:2Z:45:ASP:CG	21:2Z:49:ARG:HE	2.23	0.46
26:24:50:VAL:HG21	44:2m:65:LYS:N	2.31	0.46
32:2a:108:G:C6	51:2t:15:ARG:HG2	2.51	0.46
32:2a:1228:C:H2'	32:2a:1229:A:H8	1.81	0.46
47:2p:18:ARG:HD3	47:2p:35:LYS:HD2	1.97	0.46
1:1A:655:G:N2	1:1A:658:A:OP2	2.46	0.46
1:1A:1150:C:H2'	1:1A:1151:U:C6	2.51	0.46
1:1A:1836:U:O2	3:1D:50:THR:HB	2.16	0.46
1:1A:2160:C:N3	1:1A:2176:G:N1	2.63	0.46
1:1A:2699:U:H2'	1:1A:2700:U:O4'	2.15	0.46
3:1D:3:VAL:HG13	3:1D:17:THR:HB	1.96	0.46
17:1V:14:VAL:HB	17:1V:96:ILE:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:255:G:H1'	48:1q:16:GLN:OE1	2.15	0.46
32:1a:1007:C:H2'	32:1a:1008:C:C6	2.51	0.46
32:1a:1391:U:H2'	32:1a:1392:G:C8	2.51	0.46
36:1e:78:HIS:HD2	39:1h:104:ARG:HD2	1.81	0.46
43:1l:28:LYS:HB2	43:1l:33:ARG:HH21	1.80	0.46
1:2A:1352:U:OP2	61:2A:3963:HOH:O	2.20	0.46
1:2A:2727:G:O2'	10:2O:70:LYS:NZ	2.49	0.46
5:2F:101:LEU:HD12	5:2F:102:PRO:HD2	1.96	0.46
21:2Z:45:ASP:OD1	21:2Z:49:ARG:NE	2.48	0.46
32:2a:392:G:H2'	32:2a:393:A:H8	1.79	0.46
32:2a:1062:U:H2'	32:2a:1063:C:C6	2.50	0.46
34:2c:6:HIS:CD2	34:2c:8:ILE:H	2.33	0.46
40:2i:28:VAL:HA	40:2i:63:ILE:O	2.16	0.46
50:2s:41:VAL:HG22	50:2s:42:PRO:HD2	1.97	0.46
1:1A:1109:G:C5	1:1A:1110:C:N4	2.84	0.46
1:1A:2132:G:C2	1:1A:2142:G:H1'	2.51	0.46
13:1R:9:LYS:O	13:1R:17:ARG:HD3	2.15	0.46
18:1W:71:VAL:HA	18:1W:107:LEU:HD12	1.97	0.46
32:1a:520:A:N1	32:1a:536:C:H1'	2.31	0.46
38:1g:26:PHE:CE2	38:1g:30:ILE:HD11	2.50	0.46
1:2A:521:G:H2'	1:2A:522:G:H8	1.79	0.46
1:2A:800:A:H8	1:2A:800:A:OP1	1.98	0.46
1:2A:928:G:H8	1:2A:928:G:O5'	1.99	0.46
1:2A:2302:G:N2	6:2G:126:ASP:OD1	2.40	0.46
3:2D:274:ARG:O	3:2D:275:LYS:HD2	2.16	0.46
7:2H:25:LYS:HE3	7:2H:27:LYS:HE3	1.97	0.46
32:2a:1226:C:H2'	44:2m:103:THR:HB	1.98	0.46
35:2d:149:ALA:HB3	35:2d:152:SER:HB2	1.98	0.46
1:1A:2579:G:H2'	1:1A:2580:C:C6	2.50	0.46
4:1E:119:ARG:HG2	4:1E:120:TRP:NE1	2.31	0.46
16:1U:86:ALA:O	17:1V:49:THR:HG23	2.16	0.46
19:1X:35:THR:HG22	19:1X:38:GLU:H	1.80	0.46
26:14:13:ARG:HG2	26:14:15:ILE:HD11	1.98	0.46
30:18:26:LYS:HG2	30:18:46:ARG:O	2.15	0.46
32:1a:269:C:H2'	32:1a:270:A:C8	2.50	0.46
32:1a:542:G:OP1	35:1d:10:ARG:NH2	2.48	0.46
32:1a:642:A:N3	39:1h:113:SER:OG	2.38	0.46
32:1a:824:C:H2'	32:1a:825:G:C8	2.51	0.46
32:1a:1029:C:H41	32:1a:1030(A):G:N2	2.13	0.46
32:1a:1273:G:H3'	32:1a:1274:G:C8	2.50	0.46
33:1b:74:LYS:O	33:1b:78:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:1j:78:ASN:O	41:1j:80:LYS:N	2.48	0.46
1:2A:94(A):G:H2'	1:2A:95:G:O4'	2.15	0.46
1:2A:322:A:OP2	5:2F:169:ASN:HB2	2.15	0.46
1:2A:390:A:N6	61:2A:4155:HOH:O	2.49	0.46
1:2A:2023:G:H5'	1:2A:2617:C:H4'	1.97	0.46
1:2A:2079:U:O3'	23:21:35:THR:OG1	2.29	0.46
1:2A:2635:C:H4'	4:2E:48:GLN:NE2	2.31	0.46
1:2A:2815:C:H5'	27:25:29:THR:HG21	1.96	0.46
2:2B:33:G:N3	2:2B:50:G:N2	2.64	0.46
15:2T:92:GLY:O	15:2T:120:ARG:NH2	2.48	0.46
19:2X:12:VAL:HG22	19:2X:29:TRP:CE2	2.51	0.46
21:2Z:93:ASP:CB	21:2Z:131:ARG:HH12	2.29	0.46
25:23:52:HIS:CD2	25:23:53:LEU:HG	2.50	0.46
26:24:2:LYS:HD2	26:24:5:ILE:HD13	1.98	0.46
32:2a:936:C:H2'	32:2a:937:A:O4'	2.16	0.46
1:1A:593:G:H2'	1:1A:2052:A:C5	2.50	0.46
1:1A:606:G:OP2	16:1U:10:ARG:HD2	2.16	0.46
1:1A:1066:A:N1	1:1A:1186:U:O2'	2.30	0.46
1:1A:1093:G:H2'	1:1A:1156:G:H22	1.80	0.46
1:1A:1347:A:O2'	1:1A:1348:A:H3'	2.16	0.46
6:1G:64:THR:HB	6:1G:94:LEU:HD21	1.98	0.46
32:1a:532:A:N6	32:1a:1206:G:O2'	2.48	0.46
33:1b:178:ARG:HH22	39:1h:74:PRO:HB3	1.81	0.46
54:1w:54:5MU:C2	54:1w:58:A:N7	2.83	0.46
1:2A:141:A:C8	1:2A:1408:C:O2'	2.69	0.46
1:2A:236:C:H2'	1:2A:237:C:C6	2.51	0.46
1:2A:328:U:H4'	20:2Y:68:HIS:CG	2.50	0.46
1:2A:2191:G:H2'	1:2A:2192:G:O4'	2.16	0.46
9:2N:58:ASP:OD1	9:2N:58:ASP:N	2.48	0.46
14:2S:27:SER:HA	14:2S:88:ASP:HB3	1.98	0.46
17:2V:69:LYS:HA	17:2V:88:ARG:HG2	1.98	0.46
32:2a:261:U:OP2	51:2t:79:ARG:NH2	2.48	0.46
32:2a:660:G:H2'	32:2a:661:G:H8	1.81	0.46
32:2a:979:C:O2	45:2n:19:ARG:NE	2.46	0.46
32:2a:1005:A:H5''	32:2a:1006:C:H5	1.80	0.46
32:2a:1148:U:H2'	32:2a:1149:C:O4'	2.16	0.46
33:2b:74:LYS:NZ	33:2b:205:ASP:O	2.45	0.46
33:2b:102:LEU:HD23	33:2b:182:ILE:HD12	1.97	0.46
40:2i:26:VAL:HG13	40:2i:61:ALA:HB3	1.96	0.46
47:2p:56:ALA:O	47:2p:60:LEU:HB2	2.16	0.46
1:1A:1604:C:H5''	1:1A:1605:A:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1961:5MU:OP1	1:1A:2616:U:O2'	2.24	0.46
1:1A:2164:C:H2'	1:1A:2165:C:H6	1.78	0.46
1:1A:2645:G:H5''	1:1A:2822:G:H5'	1.96	0.46
1:1A:2802:C:O2'	1:1A:2803:A:O4'	2.26	0.46
1:1A:2880:C:H2'	1:1A:2881:C:O4'	2.15	0.46
12:1Q:111:GLU:O	12:1Q:115:MET:HG2	2.16	0.46
32:1a:266:G:H2'	32:1a:266:G:N3	2.31	0.46
32:1a:601:C:H2'	32:1a:602:A:H8	1.81	0.46
32:1a:737:A:H2'	32:1a:738:C:C6	2.50	0.46
33:1b:15:VAL:HG23	33:1b:16:HIS:ND1	2.31	0.46
33:1b:139:LYS:O	33:1b:143:GLU:HG3	2.15	0.46
34:1c:119:ARG:HE	34:1c:140:ARG:CZ	2.29	0.46
40:1i:50:LEU:HD12	40:1i:51:ARG:N	2.30	0.46
54:1w:53:G:H1	54:1w:61:C:N4	2.13	0.46
54:1w:65:C:H2'	54:1w:66:A:C8	2.50	0.46
1:2A:1924:C:H4'	55:2x:13:C:O2'	2.15	0.46
1:2A:2741:A:H2'	1:2A:2742:C:O4'	2.15	0.46
4:2E:1:MET:HE2	4:2E:202:LYS:NZ	2.31	0.46
8:2I:92:VAL:HG11	8:2I:144:VAL:HG11	1.98	0.46
14:2S:39:ILE:HB	14:2S:49:VAL:HG12	1.98	0.46
15:2T:26:ASP:O	15:2T:49:VAL:HG22	2.16	0.46
15:2T:118:ARG:HG2	32:2a:1442(A):G:C8	2.50	0.46
32:2a:147:G:H1	32:2a:175:C:H42	1.64	0.46
33:2b:27:LYS:HD2	33:2b:193:ASP:OD1	2.15	0.46
47:2p:51:VAL:HG12	47:2p:53:VAL:H	1.81	0.46
54:2y:51:C:N3	54:2y:63:G:C6	2.84	0.46
1:1A:8:A:H2'	1:1A:9:U:H6	1.81	0.46
1:1A:1935:A:H4'	1:1A:1936:C:H5''	1.98	0.46
1:1A:2151:C:C4	1:1A:2152:U:C4	3.04	0.46
5:1F:183:VAL:O	5:1F:187:VAL:HG23	2.16	0.46
9:1N:96:GLU:H	9:1N:96:GLU:CD	2.23	0.46
21:1Z:7:ALA:HB3	21:1Z:61:LEU:HD12	1.97	0.46
32:1a:343:U:O2'	32:1a:346:G:O6	2.29	0.46
32:1a:392:G:H2'	32:1a:393:A:H8	1.81	0.46
32:1a:1027:C:C4	32:1a:1034:G:N1	2.83	0.46
32:1a:1149:C:OP1	40:1i:9:ARG:NE	2.42	0.46
1:2A:744:G:OP1	4:2E:132:HIS:ND1	2.44	0.46
1:2A:2066:C:OP1	61:2A:3962:HOH:O	2.20	0.46
32:2a:1223:C:P	50:2s:78:ARG:HH21	2.38	0.46
32:2a:1271:G:C2	32:2a:1272:G:C8	3.04	0.46
39:2h:46:LYS:HG3	39:2h:64:LYS:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:117:A:H4'	1:1A:118:U:OP1	2.16	0.46
1:1A:794:U:O2	1:1A:2036:A:H1'	2.16	0.46
1:1A:946:A:H2'	1:1A:947:A:O4'	2.16	0.46
1:1A:1057:G:OP1	16:1U:77:SER:OG	2.26	0.46
1:1A:2319:G:H4'	1:1A:2320:G:O5'	2.16	0.46
5:1F:28:ILE:O	5:1F:30:PRO:HD3	2.15	0.46
6:1G:43:LEU:HB3	6:1G:44:GLY:H	1.57	0.46
9:1N:13:TRP:CE2	9:1N:133:GLN:HG2	2.51	0.46
12:1Q:31:ASP:OD1	12:1Q:134:ARG:NH1	2.37	0.46
37:1f:43:LEU:HD23	37:1f:46:ARG:HH21	1.81	0.46
54:1y:68:C:H2'	54:1y:69:A:C8	2.51	0.46
1:2A:1372:U:H2'	1:2A:1373:A:O4'	2.15	0.46
1:2A:1448:G:H4'	1:2A:1542:A:OP1	2.15	0.46
1:2A:2137:C:C2	1:2A:2154:G:N2	2.79	0.46
1:2A:2161:C:H2'	1:2A:2162:G:O4'	2.16	0.46
1:2A:2632:A:O2'	1:2A:2811:G:O2'	2.23	0.46
6:2G:67:LYS:HD3	26:24:5:ILE:HD12	1.97	0.46
10:2O:68:GLU:OE1	10:2O:78:ARG:NH1	2.49	0.46
23:21:52:ARG:HD3	23:21:56:GLN:O	2.16	0.46
32:2a:302:G:N3	32:2a:556:C:H4'	2.31	0.46
32:2a:1201:A:H4'	32:2a:1202:G:O5'	2.16	0.46
32:2a:1221:G:C2'	32:2a:1222:G:H5'	2.46	0.46
41:2j:57:LYS:HE2	41:2j:60:ARG:HH21	1.81	0.46
43:2l:110:VAL:HG23	43:2l:120:TYR:HB3	1.99	0.46
56:B:3:ORD:HB2	56:B:4:PRO:CD	2.46	0.46
1:1A:2182:G:C6	1:1A:2183:C:N4	2.84	0.45
1:1A:2589:A:OP2	27:15:3:LYS:NZ	2.45	0.45
4:1E:82:ARG:HG3	4:1E:83:ASP:N	2.31	0.45
25:13:7:LYS:HB2	25:13:34:GLU:HG3	1.98	0.45
26:14:46:GLN:O	26:14:46:GLN:HG2	2.16	0.45
32:1a:434:U:H2'	32:1a:435:C:C6	2.51	0.45
34:1c:148:GLY:HA3	34:1c:172:ARG:O	2.16	0.45
35:1d:108:LEU:HB3	35:1d:110:PHE:CE1	2.51	0.45
41:1j:8:LEU:HD12	41:1j:70:ARG:HB2	1.98	0.45
1:2A:443:A:H5''	1:2A:444:C:OP1	2.16	0.45
1:2A:1479:G:H5'	1:2A:1558:A:H2	1.81	0.45
1:2A:1769:G:O2'	1:2A:1958:C:OP1	2.34	0.45
3:2D:24:ILE:HD13	3:2D:84:TYR:HB2	1.97	0.45
28:26:25:LYS:HE3	28:26:27:LYS:HA	1.98	0.45
32:2a:562:C:H1'	43:2l:15:ARG:HB3	1.98	0.45
32:2a:998:G:H2'	32:2a:999:C:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:6:HIS:CG	45:2n:49:HIS:HB3	2.51	0.45
38:2g:15:ASP:OD1	38:2g:20:ASP:N	2.39	0.45
38:2g:76:ARG:HD3	38:2g:89:MET:HG3	1.96	0.45
38:2g:137:LYS:O	38:2g:141:VAL:HG23	2.16	0.45
42:2k:48:ILE:HD12	42:2k:63:LEU:HB2	1.98	0.45
1:1A:1405:A:H2'	1:1A:1406:A:H5'	1.98	0.45
4:1E:9:VAL:HG22	4:1E:25:VAL:HB	1.97	0.45
10:1O:4:PRO:O	10:1O:5:GLN:HB2	2.16	0.45
21:1Z:1:MET:HE2	21:1Z:135:GLU:HB2	1.97	0.45
32:1a:142:G:H2'	32:1a:143:A:H8	1.82	0.45
32:1a:1077:G:N2	32:1a:1080:A:OP2	2.47	0.45
32:1a:1458:G:H5''	51:1t:31:SER:HB2	1.98	0.45
33:1b:97:TRP:HH2	33:1b:176:GLU:CD	2.24	0.45
41:1j:38:ILE:CG1	41:1j:71:LEU:HB3	2.46	0.45
44:1m:16:ASP:OD1	44:1m:16:ASP:N	2.49	0.45
1:2A:774:A:H2'	1:2A:774:A:N3	2.31	0.45
1:2A:2315:G:H2'	1:2A:2316:C:C6	2.51	0.45
1:2A:2732:G:H3'	1:2A:2733:A:O4'	2.16	0.45
15:2T:82:LEU:HD23	15:2T:82:LEU:HA	1.76	0.45
20:2Y:43:ASN:HB3	20:2Y:65:ALA:HB3	1.99	0.45
26:24:48:ARG:HD2	26:24:51:ASP:O	2.16	0.45
33:2b:15:VAL:HG23	33:2b:16:HIS:ND1	2.31	0.45
54:2y:39:G:H2'	54:2y:40:G:C8	2.51	0.45
1:1A:2118:U:H3	1:1A:2215:G:H1	1.64	0.45
3:1D:132:PRO:HG3	3:1D:190:TYR:CE2	2.52	0.45
8:1I:124:GLY:H	8:1I:144:VAL:HG23	1.80	0.45
11:1P:120:ALA:HB2	11:1P:137:LYS:HB3	1.98	0.45
13:1R:44:LEU:HD22	13:1R:48:VAL:HG23	1.98	0.45
32:1a:413:G:N2	32:1a:428:G:H1'	2.31	0.45
32:1a:1030(D):A:H2'	32:1a:1031:G:H4'	1.98	0.45
32:1a:1305:G:H5''	52:1u:4:GLY:HA3	1.97	0.45
35:1d:4:TYR:O	35:1d:5:ILE:HG22	2.16	0.45
39:1h:26:VAL:HG22	39:1h:59:LEU:HB2	1.99	0.45
41:1j:11:PHE:CE1	41:1j:67:THR:HG22	2.50	0.45
52:1u:3:LYS:HB3	52:1u:14:TRP:CD1	2.51	0.45
54:1w:9:A:O2'	54:1w:10:G:N7	2.48	0.45
1:2A:271(L):U:OP1	8:2I:50:ARG:NH1	2.49	0.45
1:2A:686:G:H21	1:2A:788:A:H61	1.63	0.45
1:2A:887:A:O2'	1:2A:888:C:H3'	2.17	0.45
1:2A:925:C:H2'	1:2A:926:A:H8	1.80	0.45
1:2A:947:G:H2'	1:2A:948:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1336:A:H2'	1:2A:1337:G:C8	2.52	0.45
1:2A:1550:C:OP1	1:2A:1720:U:O2'	2.28	0.45
1:2A:2507:C:H2'	1:2A:2508:G:O4'	2.15	0.45
10:2O:48:PRO:CB	32:2a:1422:G:H5''	2.39	0.45
32:2a:328:C:H4'	32:2a:329:A:H5'	1.98	0.45
32:2a:1005:A:H5''	32:2a:1006:C:C5	2.51	0.45
33:2b:189:ASP:OD1	33:2b:189:ASP:N	2.44	0.45
47:2p:17:TYR:HE2	47:2p:41:PRO:HG3	1.81	0.45
9:1N:4:TYR:CD2	16:1U:100:VAL:HG11	2.51	0.45
14:1S:65:VAL:O	14:1S:69:VAL:HG12	2.17	0.45
25:13:59:VAL:O	25:13:60:GLU:HG2	2.16	0.45
32:1a:22:G:H4'	32:1a:885:G:C8	2.52	0.45
32:1a:299:G:H2'	32:1a:300:A:C8	2.51	0.45
32:1a:431:A:H2'	32:1a:432:A:O4'	2.16	0.45
1:2A:861:A:H2'	1:2A:862:G:O4'	2.16	0.45
1:2A:903:C:H2'	1:2A:904:C:C6	2.52	0.45
1:2A:1364:G:C8	23:21:3:LYS:HD2	2.51	0.45
1:2A:1889:A:H2'	1:2A:1890:A:C8	2.52	0.45
1:2A:2648:C:H2'	1:2A:2649:U:C6	2.52	0.45
1:2A:2773:C:H2'	1:2A:2774:C:H6	1.80	0.45
26:24:16:CYS:SG	26:24:17:GLY:N	2.89	0.45
32:2a:433:C:H2'	32:2a:434:U:H6	1.81	0.45
32:2a:487:A:H2'	32:2a:488:C:O4'	2.16	0.45
32:2a:978:A:O2'	32:2a:1322:C:N3	2.47	0.45
32:2a:1427:U:H2'	32:2a:1428:A:H8	1.81	0.45
32:2a:1512:U:H2'	32:2a:1513:A:C8	2.52	0.45
33:2b:97:TRP:CH2	33:2b:173:ALA:HA	2.52	0.45
39:2h:121:ASP:N	39:2h:121:ASP:OD1	2.50	0.45
1:1A:302:A:O2'	1:1A:303:C:OP1	2.30	0.45
1:1A:1210:G:H2'	1:1A:1211:U:C6	2.52	0.45
1:1A:1410:G:N7	23:11:3:LYS:HD2	2.32	0.45
1:1A:2401:G:H5''	1:1A:2402:U:O4'	2.16	0.45
9:1N:13:TRP:CZ2	9:1N:133:GLN:HG2	2.51	0.45
32:1a:56:U:H2'	32:1a:57:G:H8	1.77	0.45
32:1a:235:C:H5'	48:1q:70:ARG:HG3	1.98	0.45
32:1a:246:A:N1	32:1a:278:G:O2'	2.48	0.45
32:1a:954:G:H2'	32:1a:955:U:O4'	2.16	0.45
37:1f:97:PHE:CD2	49:1r:31:LEU:HD11	2.51	0.45
1:2A:1161:C:H2'	1:2A:1162:G:H8	1.81	0.45
1:2A:1899:G:H2'	1:2A:1899:G:N3	2.31	0.45
5:2F:132:VAL:HG21	5:2F:163:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:178:PRO:HB2	5:2F:201:VAL:CG2	2.47	0.45
10:2O:15:GLY:O	10:2O:47:ILE:HG12	2.16	0.45
32:2a:868:C:H2'	32:2a:869:G:O4'	2.16	0.45
32:2a:1157:A:H5'	32:2a:1158:C:C6	2.51	0.45
32:2a:1288:A:N1	32:2a:1371:G:H1'	2.31	0.45
1:1A:1714:G:O2'	1:1A:2013:U:O4	2.33	0.45
1:1A:2183:C:O2'	1:1A:2184:G:H8	2.00	0.45
8:1I:1:MET:HE3	8:1I:1:MET:HB2	1.90	0.45
9:1N:62:VAL:CG1	9:1N:66:LYS:HB2	2.47	0.45
32:1a:175:C:H2'	32:1a:176:C:C6	2.52	0.45
32:1a:234:C:H2'	32:1a:235:C:C6	2.52	0.45
33:1b:178:ARG:NH1	33:1b:198:ASP:OD1	2.49	0.45
33:1b:179:LYS:HA	39:1h:72:PRO:HG3	1.99	0.45
36:1e:143:ARG:NE	39:1h:77:GLU:OE2	2.38	0.45
1:2A:902:C:H2'	1:2A:903:C:C6	2.52	0.45
1:2A:2135:A:N6	1:2A:2154:G:O6	2.50	0.45
1:2A:2371:G:O2'	28:26:46:HIS:ND1	2.42	0.45
4:2E:127:ASP:OD2	61:2E:402:HOH:O	2.21	0.45
5:2F:32:LEU:O	5:2F:36:VAL:HG23	2.16	0.45
6:2G:23:PHE:HB2	6:2G:25:TYR:CE2	2.50	0.45
6:2G:138:GLN:OE1	6:2G:138:GLN:N	2.49	0.45
7:2H:149:ARG:HH21	7:2H:154:PRO:HG2	1.81	0.45
14:2S:10:ARG:NE	14:2S:91:PRO:O	2.47	0.45
26:24:48:ARG:HD3	26:24:48:ARG:HA	1.53	0.45
28:26:23:THR:OG1	28:26:24:GLU:N	2.42	0.45
32:2a:685:G:O2'	32:2a:686:U:H5'	2.16	0.45
32:2a:854:G:C2	32:2a:855:G:C8	3.05	0.45
32:2a:1126:U:O4	41:2j:7:LYS:HE2	2.17	0.45
35:2d:157:LEU:O	35:2d:161:ASN:ND2	2.50	0.45
51:2t:10:LEU:HG	51:2t:12:ALA:H	1.81	0.45
52:2u:17:THR:O	52:2u:22:ARG:NH1	2.49	0.45
1:1A:207:A:C2	1:1A:224:U:H4'	2.51	0.45
1:1A:1405:A:C2	1:1A:1418:U:O4	2.67	0.45
1:1A:2236:G:H4'	1:1A:2238:C:C2	2.52	0.45
1:1A:2285:A:H2'	1:1A:2286:A:C8	2.51	0.45
8:1I:5:LEU:HD11	8:1I:19:VAL:HG22	1.98	0.45
10:1O:64:ARG:HB2	10:1O:79:PHE:CD2	2.51	0.45
13:1R:24:GLN:HE22	13:1R:36:THR:HG21	1.80	0.45
32:1a:270:A:H2'	32:1a:271:C:C6	2.51	0.45
32:1a:375:U:OP1	47:1p:69:THR:HG21	2.17	0.45
32:1a:814:A:H2'	32:1a:816:A:H5''	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1050:G:O3'	56:A:4:GLY:HA3	2.16	0.45
32:1a:1289:A:N1	32:1a:1371:G:O2'	2.46	0.45
32:1a:1323:G:H2'	32:1a:1324:A:C8	2.51	0.45
33:1b:27:LYS:HB2	33:1b:194:PRO:HD2	1.99	0.45
35:1d:105:VAL:HG13	35:1d:110:PHE:HB2	1.99	0.45
35:1d:124:GLY:C	35:1d:126:ILE:H	2.25	0.45
37:1f:69:GLU:H	37:1f:69:GLU:CD	2.25	0.45
1:2A:108:U:H2'	1:2A:109:G:C8	2.52	0.45
1:2A:330:A:H2	1:2A:1210:A:H2'	1.82	0.45
1:2A:492:A:H2'	1:2A:493:G:O4'	2.17	0.45
1:2A:852:G:H2'	1:2A:853:G:C8	2.51	0.45
1:2A:2290:G:O6	61:2A:3959:HOH:O	2.19	0.45
1:2A:2630:G:H2'	1:2A:2631:G:C8	2.52	0.45
1:2A:2833:G:H4'	1:2A:2834:G:OP2	2.17	0.45
10:2O:9:GLU:OE2	10:2O:18:LYS:NZ	2.49	0.45
32:2a:1020:U:H2'	32:2a:1021:G:C8	2.52	0.45
39:2h:20:TYR:HA	39:2h:65:TYR:CE1	2.52	0.45
40:2i:127:LYS:O	40:2i:128:ARG:HG2	2.16	0.45
41:2j:35:SER:HB3	41:2j:73:ASP:HB2	1.97	0.45
44:2m:90:LEU:HA	44:2m:93:ARG:HD2	1.98	0.45
1:1A:91:G:H2'	1:1A:92:C:C6	2.52	0.45
1:1A:909:G:H2'	1:1A:910:A:O4'	2.17	0.45
54:1w:44:G:H2'	54:1w:45:G:O4'	2.17	0.45
1:2A:911:A:H2'	12:2Q:9:TYR:OH	2.17	0.45
1:2A:1652:A:OP1	13:2R:8:ARG:NH1	2.46	0.45
1:2A:2391:G:O6	1:2A:2425:A:H8	1.99	0.45
1:2A:2839:G:C5'	13:2R:46:GLY:HA2	2.44	0.45
22:20:26:TYR:O	22:20:29:GLN:HB2	2.17	0.45
32:2a:129(A):G:C6	32:2a:189(E):U:H4'	2.52	0.45
32:2a:377:G:OP1	47:2p:3:LYS:HD3	2.17	0.45
32:2a:399:G:H2'	32:2a:400:C:C6	2.51	0.45
32:2a:417:C:H2'	32:2a:418:C:C6	2.52	0.45
32:2a:600:C:H2'	32:2a:601:C:C6	2.52	0.45
32:2a:646:U:H2'	32:2a:647:C:H6	1.81	0.45
46:2o:55:GLY:HA2	46:2o:58:MET:HE3	1.99	0.45
48:2q:78:GLU:OE1	48:2q:81:ARG:NH1	2.47	0.45
54:2y:11:C:N3	54:2y:24:G:C6	2.85	0.45
1:1A:210:A:N1	1:1A:254:A:O2'	2.44	0.45
1:1A:908:A:C2	1:1A:963:A:C4	3.05	0.45
1:1A:2245:U:H2'	1:1A:2246:G:C8	2.52	0.45
11:1P:91:PHE:CD1	11:1P:99:LEU:HD21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1T:16:ARG:NH1	15:1T:83:ILE:O	2.47	0.45
32:1a:8:A:N6	35:1d:205:GLU:O	2.49	0.45
32:1a:100:C:H2'	32:1a:101:A:C8	2.52	0.45
32:1a:166:G:H2'	32:1a:167:G:C8	2.52	0.45
32:1a:662:G:H2'	32:1a:663:A:C8	2.51	0.45
33:1b:82:ARG:NH1	33:1b:92:TYR:OH	2.49	0.45
1:2A:528:A:H8	9:2N:114:ARG:NH2	2.15	0.45
1:2A:873:G:O3'	12:2Q:63:LYS:NZ	2.50	0.45
1:2A:889:C:O2'	1:2A:890:A:O4'	2.34	0.45
1:2A:1398:C:H4'	61:2A:4536:HOH:O	2.17	0.45
1:2A:1412:A:H2'	1:2A:1413:G:C8	2.50	0.45
1:2A:1592:C:H2'	1:2A:1593:G:H8	1.82	0.45
1:2A:1651:G:H2'	1:2A:1652:A:O4'	2.17	0.45
1:2A:2552:2MU:H6	1:2A:2552:2MU:O5'	2.17	0.45
5:2F:187:VAL:HG12	11:2P:3:LEU:HD12	1.98	0.45
19:2X:46:ALA:HB1	24:22:33:MET:HE1	1.99	0.45
32:2a:272:C:H2'	32:2a:273:A:H8	1.82	0.45
32:2a:338:A:H2	32:2a:351:G:H22	1.63	0.45
32:2a:683:G:H2'	32:2a:684:A:C8	2.52	0.45
32:2a:1219:U:OP1	45:2n:19:ARG:NH1	2.38	0.45
41:2j:6:ILE:HG12	41:2j:98:ILE:HG13	1.99	0.45
53:2v:14:A:N7	54:2y:34:CM0:H7C1	2.31	0.45
1:1A:77:A:H2'	1:1A:78:G:H8	1.82	0.45
1:1A:233:A:C2	1:1A:244:A:C4	3.05	0.45
1:1A:388:A:H2'	1:1A:389:G:C8	2.52	0.45
1:1A:479:C:O2	1:1A:483:A:O2'	2.35	0.45
1:1A:847:A:H8	1:1A:847:A:OP1	2.00	0.45
4:1E:72:VAL:HG12	4:1E:73:GLU:O	2.17	0.45
7:1H:97:ARG:NE	7:1H:104:GLU:OE1	2.50	0.45
11:1P:95:VAL:HG13	11:1P:125:VAL:HA	1.99	0.45
15:1T:26:ASP:O	15:1T:49:VAL:HG22	2.16	0.45
26:14:61:ARG:HG3	26:14:62:ARG:N	2.31	0.45
32:1a:576:G:O6	32:1a:880:C:O2'	2.31	0.45
61:1a:3767:HOH:O	42:1k:116:HIS:HD2	1.99	0.45
1:2A:667:U:O2	30:28:2:PRO:HD2	2.17	0.45
1:2A:1239:G:H2'	1:2A:1240:U:O4'	2.16	0.45
1:2A:1410:G:H2'	1:2A:1411:C:H6	1.80	0.45
1:2A:2321:G:N3	1:2A:2321:G:H2'	2.31	0.45
6:2G:150:ASP:OD1	6:2G:150:ASP:N	2.50	0.45
10:2O:120:GLU:HG2	10:2O:122:LEU:HG	1.98	0.45
14:2S:5:THR:O	14:2S:8:GLU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2T:109:GLU:HG2	15:2T:112:ARG:NH2	2.31	0.45
17:2V:62:LEU:HD21	17:2V:95:LEU:HB2	1.98	0.45
21:2Z:55:HIS:HE1	21:2Z:135:GLU:HG3	1.81	0.45
34:2c:111:LEU:HD22	34:2c:146:ALA:HB2	1.99	0.45
36:2e:152:ARG:HB3	39:2h:43:GLY:HA3	1.98	0.45
37:2f:6:VAL:HB	37:2f:63:TYR:HB2	1.99	0.45
44:2m:11:ARG:HG3	44:2m:12:ASN:HD22	1.82	0.45
54:2w:29:U:H2'	54:2w:30:C:H6	1.81	0.45
54:2w:43:G:H2'	54:2w:44:G:C8	2.51	0.45
54:2y:31:C:N4	54:2y:39:G:H1	2.13	0.45
1:1A:968:U:H2'	1:1A:969:C:C6	2.52	0.44
1:1A:1715:A:O2'	1:1A:1721:G:N7	2.45	0.44
1:1A:1868:C:OP1	32:1a:784:C:H4'	2.17	0.44
1:1A:2157:A:H2'	1:1A:2158:C:C6	2.51	0.44
2:1B:75:G:H22	21:1Z:73:GLN:NE2	2.15	0.44
26:14:61:ARG:NH2	50:1s:41:VAL:HG23	2.31	0.44
32:1a:828:A:H2'	32:1a:829:G:O4'	2.16	0.44
32:1a:1302:U:C5	44:1m:17:VAL:HG11	2.52	0.44
32:1a:1346:A:H2'	38:1g:10:ARG:HH22	1.81	0.44
36:1e:105:VAL:HG21	36:1e:128:PRO:HB3	1.98	0.44
37:1f:8:ILE:HD11	37:1f:79:LEU:HD13	1.98	0.44
50:1s:77:THR:HG23	50:1s:78:ARG:HG3	1.98	0.44
1:2A:84:A:H5''	20:2Y:8:LYS:HG2	1.98	0.44
1:2A:383:U:H2'	1:2A:385:C:H5	1.82	0.44
1:2A:815:C:H2'	1:2A:816:C:H6	1.81	0.44
1:2A:887:A:H2'	1:2A:887:A:N3	2.31	0.44
1:2A:1270:C:H5''	1:2A:1271:G:O5'	2.18	0.44
1:2A:1340:U:OP1	19:2X:16:LYS:NZ	2.43	0.44
1:2A:1514:U:H2'	1:2A:1515:G:C8	2.49	0.44
1:2A:2275:C:H6	1:2A:2275:C:H5'	1.82	0.44
6:2G:11:TYR:OH	6:2G:16:ARG:NH1	2.48	0.44
16:2U:34:LYS:HA	16:2U:34:LYS:HD3	1.75	0.44
30:28:6:THR:HG22	30:28:63:PRO:HD2	1.99	0.44
32:2a:130:A:O2'	32:2a:131:C:O5'	2.31	0.44
32:2a:308:C:H2'	32:2a:309:G:H8	1.83	0.44
32:2a:376:G:H5''	47:2p:5:ARG:HD2	1.98	0.44
32:2a:728:A:H2'	32:2a:729:A:C8	2.51	0.44
32:2a:731:G:H5'	32:2a:766:A:H4'	2.00	0.44
34:2c:129:ALA:HB3	34:2c:132:ARG:HB3	1.99	0.44
35:2d:61:LYS:HD2	35:2d:207:TYR:OH	2.17	0.44
47:2p:20:VAL:HG21	47:2p:32:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:2y:35:A:H2'	54:2y:36:C:O4'	2.17	0.44
1:1A:1097:G:H2'	1:1A:1098:C:O4'	2.17	0.44
1:1A:1464:G:OP2	61:1A:4266:HOH:O	2.21	0.44
1:1A:1465:A:O2'	1:1A:1467:G:N7	2.49	0.44
1:1A:1473:A:H4'	1:1A:1474:C:O4'	2.17	0.44
1:1A:2762:A:OP1	7:1H:3:ARG:NH1	2.51	0.44
5:1F:101:LEU:HD12	5:1F:102:PRO:HD2	1.98	0.44
7:1H:13:LYS:HA	7:1H:14:GLY:HA2	1.66	0.44
8:1I:109:ILE:HD13	8:1I:109:ILE:HA	1.82	0.44
14:1S:83:LYS:HB3	14:1S:111:GLU:HG3	1.99	0.44
32:1a:108:G:C6	51:1t:15:ARG:HG2	2.53	0.44
33:1b:15:VAL:HB	33:1b:209:ARG:HG3	1.99	0.44
54:1y:53:G:H2'	54:1y:54:5MU:H6	1.81	0.44
1:2A:816:C:H2'	1:2A:817:C:H6	1.82	0.44
1:2A:851:U:O2'	25:23:42:ALA:O	2.34	0.44
1:2A:1591:G:H2'	1:2A:1592:C:C6	2.52	0.44
1:2A:2123:G:H2'	1:2A:2124:G:C8	2.53	0.44
1:2A:2836:U:H2'	1:2A:2837:G:C8	2.52	0.44
2:2B:2:C:H2'	2:2B:3:C:C5	2.52	0.44
7:2H:113:VAL:HG11	7:2H:151:ILE:HD13	1.98	0.44
13:2R:57:ARG:NH1	13:2R:62:ALA:HB2	2.33	0.44
22:20:29:GLN:O	22:20:67:VAL:HG23	2.18	0.44
32:2a:56:U:H2'	32:2a:57:G:C8	2.52	0.44
32:2a:1305:G:H22	32:2a:1331:G:H1'	1.82	0.44
32:2a:1381:U:H2'	32:2a:1382:C:C6	2.52	0.44
1:1A:929:G:H4'	54:1w:19:G:C6	2.52	0.44
1:1A:1343:C:OP1	1:1A:2722:C:H4'	2.18	0.44
10:1O:64:ARG:HB2	10:1O:79:PHE:CG	2.52	0.44
12:1Q:18:LYS:O	12:1Q:98:LYS:NZ	2.36	0.44
14:1S:61:ASN:HB3	14:1S:64:GLU:HB2	1.98	0.44
17:1V:52:VAL:HG23	17:1V:55:ALA:HB3	1.98	0.44
32:1a:750:G:N3	46:1o:23:GLY:HA3	2.33	0.44
32:1a:1302:U:OP2	44:1m:21:TYR:OH	2.33	0.44
54:1y:50:G:N1	54:1y:64:U:N3	2.48	0.44
1:2A:39:C:H2'	1:2A:40:C:C6	2.52	0.44
1:2A:443:A:H1'	1:2A:1201:C:O4'	2.16	0.44
1:2A:581:C:H2'	1:2A:582:G:C8	2.52	0.44
1:2A:699:A:H2'	1:2A:700:G:O4'	2.18	0.44
1:2A:1031:G:N3	31:29:36:GLN:NE2	2.53	0.44
1:2A:2123:G:H1	1:2A:2175:C:H42	1.64	0.44
1:2A:2151:G:H2'	1:2A:2152:G:H8	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2635:C:O2'	4:2E:80:GLU:OE2	2.26	0.44
1:2A:2752:C:H2'	1:2A:2753:A:O4'	2.17	0.44
3:2D:71:ASP:CG	3:2D:103:ARG:HH12	2.25	0.44
7:2H:137:ASP:HB3	7:2H:140:LYS:HB3	2.00	0.44
10:2O:25:LEU:HD12	10:2O:38:VAL:HG12	1.99	0.44
32:2a:826:C:H2'	32:2a:827:U:C6	2.52	0.44
32:2a:925:G:H1'	32:2a:1502:A:C4	2.52	0.44
32:2a:1016:A:N6	32:2a:1017:G:N3	2.66	0.44
35:2d:59:ARG:HD3	35:2d:59:ARG:HA	1.68	0.44
43:2l:84:LEU:HB2	43:2l:105:TYR:CE2	2.53	0.44
1:1A:1825:U:H2'	1:1A:1826:C:C6	2.51	0.44
1:1A:2388:A:H2'	1:1A:2389:A:O4'	2.17	0.44
1:1A:2697:G:H5'	10:1O:68:GLU:OE2	2.17	0.44
8:1I:140:LEU:HD23	8:1I:140:LEU:HA	1.81	0.44
32:1a:944:G:O6	32:1a:1337:G:H8	2.00	0.44
32:1a:1513:A:H2'	32:1a:1514:C:C6	2.53	0.44
33:1b:230:VAL:HG22	33:1b:232:PRO:HD2	1.98	0.44
1:2A:1187:G:H8	1:2A:1187:G:OP2	2.00	0.44
1:2A:1292:U:H2'	1:2A:1293:C:C6	2.52	0.44
1:2A:1316:U:H2'	1:2A:1317:A:C8	2.52	0.44
1:2A:2010:G:H5''	18:2W:42:ARG:HB2	1.98	0.44
1:2A:2176:A:H2'	1:2A:2177:C:C6	2.52	0.44
2:2B:90:A:C5	2:2B:91:C:H1'	2.52	0.44
20:2Y:38:ILE:HD11	20:2Y:66:PRO:HG3	2.00	0.44
32:2a:163:C:H2'	32:2a:164:U:O4'	2.17	0.44
32:2a:1133:G:H1	32:2a:1141:C:N4	2.12	0.44
32:2a:1371:G:O3'	40:2i:69:GLY:HA3	2.17	0.44
32:2a:1376:U:H2'	32:2a:1377:A:C8	2.52	0.44
36:2e:146:ALA:O	36:2e:150:ARG:HG2	2.17	0.44
47:2p:19:ILE:HD11	47:2p:39:TYR:HB2	1.99	0.44
54:2y:3:G:H1	54:2y:70:C:H42	1.65	0.44
1:1A:215:G:N2	1:1A:217:A:H62	2.15	0.44
1:1A:242:C:OP2	30:18:5:LYS:NZ	2.38	0.44
1:1A:441:C:H2'	1:1A:442:A:C8	2.52	0.44
1:1A:1954:A:H2'	1:1A:1955:G:O4'	2.17	0.44
1:1A:2801:C:H2'	1:1A:2802:C:O4'	2.17	0.44
2:1B:74:U:H2'	2:1B:75:G:O4'	2.18	0.44
10:1O:49:ARG:NH1	32:1a:1422:G:O3'	2.43	0.44
21:1Z:4:ARG:NE	21:1Z:60:GLU:OE2	2.38	0.44
32:1a:348:G:H5''	61:1a:3933:HOH:O	2.16	0.44
32:1a:433:C:H2'	32:1a:434:U:H6	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:626:U:H2'	32:1a:627:G:C8	2.53	0.44
32:1a:958:A:C6	32:1a:959:A:N1	2.86	0.44
46:1o:39:LEU:HD13	46:1o:56:LEU:HB2	2.00	0.44
55:1x:61:C:H2'	55:1x:62:C:H6	1.82	0.44
1:2A:57:C:H2'	1:2A:58:G:O4'	2.18	0.44
1:2A:927:G:H2'	1:2A:928:G:O4'	2.17	0.44
1:2A:1037:G:H2'	1:2A:1038:C:O4'	2.18	0.44
1:2A:1913:A:C8	32:2a:1494:G:H4'	2.53	0.44
1:2A:2152:G:C2	1:2A:2153:G:H1'	2.53	0.44
1:2A:2152:G:C4	1:2A:2153:G:H1'	2.53	0.44
1:2A:2163:C:C4	1:2A:2164:C:H1'	2.53	0.44
32:2a:1190:G:O2'	34:2c:3:ASN:HB2	2.17	0.44
33:2b:80:ILE:HG12	33:2b:215:LEU:HD23	2.00	0.44
54:2w:64:U:H2'	54:2w:65:C:C6	2.53	0.44
1:1A:211:A:H5''	1:1A:448:U:OP1	2.17	0.44
1:1A:1400:A:H2'	1:1A:1401:G:O4'	2.18	0.44
1:1A:1825:U:H2'	1:1A:1826:C:H6	1.83	0.44
1:1A:2021:C:H4'	1:1A:2736:C:O2	2.17	0.44
1:1A:2166:U:H3	1:1A:2169:G:H22	1.66	0.44
1:1A:2190:G:N1	1:1A:2193:A:C8	2.86	0.44
1:1A:2639:G:O2'	1:1A:2794:A:N1	2.45	0.44
9:1N:108:PRO:O	9:1N:113:GLY:HA3	2.16	0.44
17:1V:49:THR:HG22	17:1V:49:THR:O	2.17	0.44
32:1a:458:C:H2'	32:1a:460:G:O4'	2.16	0.44
33:1b:142:LEU:HA	33:1b:145:LEU:HD12	2.00	0.44
33:1b:218:ALA:O	33:1b:222:ILE:HG13	2.17	0.44
44:1m:15:VAL:HG12	44:1m:45:VAL:HG22	1.99	0.44
46:1o:29:VAL:HG11	46:1o:67:LEU:HD21	1.98	0.44
50:1s:41:VAL:HG12	50:1s:44:MET:SD	2.58	0.44
1:2A:71:A:H5''	1:2A:73:A:C8	2.53	0.44
1:2A:921:G:C6	1:2A:922:U:C4	3.05	0.44
1:2A:1014:U:H2'	1:2A:1015:G:H8	1.83	0.44
1:2A:1833:U:O2'	1:2A:1969:A:N1	2.48	0.44
1:2A:1857:G:C6	1:2A:1858:G:N1	2.86	0.44
1:2A:2139:C:N3	1:2A:2153:G:N2	2.65	0.44
6:2G:51:ARG:O	6:2G:52:ILE:C	2.61	0.44
8:2I:140:LEU:HD23	8:2I:140:LEU:HA	1.82	0.44
28:26:14:THR:HG21	28:26:48:VAL:HG13	1.98	0.44
32:2a:236:G:O2'	48:2q:4:LYS:NZ	2.51	0.44
32:2a:671:G:H5'	37:2f:77:ARG:HH21	1.81	0.44
32:2a:708:C:H2'	32:2a:709:G:H8	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:999:C:N3	32:2a:1042:G:N2	2.53	0.44
32:2a:1004:A:H1'	32:2a:1038:C:O2	2.18	0.44
33:2b:24:TRP:CZ3	33:2b:26:PRO:HA	2.53	0.44
38:2g:23:VAL:HG13	38:2g:43:PHE:CE2	2.52	0.44
44:2m:33:ALA:HA	44:2m:59:TYR:CE2	2.52	0.44
1:1A:1793:A:H2'	61:1A:6070:HOH:O	2.17	0.44
21:1Z:7:ALA:O	21:1Z:62:PRO:HD3	2.17	0.44
28:16:38:LYS:HE3	28:16:38:LYS:HB3	1.74	0.44
32:1a:382:A:H2'	32:1a:383:A:H8	1.79	0.44
32:1a:1009:G:O6	32:1a:1020:U:O2	2.35	0.44
32:1a:1030:C:H3'	32:1a:1030(A):G:C5'	2.46	0.44
32:1a:1159:U:O4'	32:1a:1182:G:N2	2.51	0.44
1:2A:479:A:H4'	1:2A:480:A:OP1	2.17	0.44
1:2A:690:G:H2'	1:2A:691:C:C6	2.52	0.44
1:2A:918:A:C5	1:2A:919:G:H1'	2.53	0.44
1:2A:1266:G:O2'	1:2A:2012:G:O6	2.28	0.44
1:2A:1756:G:H4'	1:2A:1758:G:O4'	2.17	0.44
1:2A:2030:A:H4'	1:2A:2031:A:C8	2.53	0.44
1:2A:2167:U:O2	1:2A:2167:U:H2'	2.18	0.44
1:2A:2635:C:H4'	4:2E:48:GLN:HE21	1.83	0.44
1:2A:2689:U:OP2	1:2A:2719:G:N2	2.43	0.44
9:2N:13:TRP:CE2	9:2N:133:GLN:HG2	2.52	0.44
21:2Z:70:LEU:HA	21:2Z:70:LEU:HD23	1.85	0.44
32:2a:745:C:H1'	32:2a:836:G:O2'	2.17	0.44
32:2a:1194:U:H4'	36:2e:22:GLY:HA2	2.00	0.44
32:2a:1478:C:H2'	32:2a:1479:C:H6	1.83	0.44
33:2b:22:LYS:HA	33:2b:24:TRP:CD1	2.53	0.44
39:2h:20:TYR:HA	39:2h:65:TYR:CZ	2.52	0.44
46:2o:11:VAL:HG21	46:2o:34:LEU:HD22	1.98	0.44
16:1U:8:VAL:HG23	16:1U:11:ARG:NH2	2.33	0.44
28:16:10:LEU:HG	28:16:54:ILE:HG13	2.00	0.44
32:1a:109:A:H2'	32:1a:326:G:N2	2.33	0.44
32:1a:384:G:H2'	32:1a:385:C:C6	2.53	0.44
32:1a:1239:A:H62	32:1a:1299:A:H62	1.65	0.44
33:1b:187:LEU:HD21	33:1b:204:ASN:O	2.18	0.44
38:1g:22:LEU:HG	38:1g:62:PHE:HE2	1.82	0.44
38:1g:80:VAL:HB	38:1g:85:TYR:HE2	1.82	0.44
41:1j:5:ARG:CD	41:1j:71:LEU:HD11	2.47	0.44
41:1j:30:SER:O	41:1j:81:THR:OG1	2.34	0.44
47:1p:6:LEU:HB3	47:1p:17:TYR:CD1	2.53	0.44
54:1y:48:C:C2	54:1y:59:U:H1'	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2540:C:H2'	1:2A:2541:A:O4'	2.18	0.44
6:2G:61:ALA:HB1	26:24:7:PRO:HG3	2.00	0.44
6:2G:109:VAL:HG23	26:24:33:VAL:HG11	1.99	0.44
32:2a:354:G:N2	32:2a:388:G:O2'	2.30	0.44
32:2a:828:A:H2'	32:2a:829:G:O4'	2.18	0.44
32:2a:984:C:H2'	32:2a:985:C:H6	1.83	0.44
32:2a:1260:C:P	32:2a:1284:C:H4'	2.58	0.44
54:2y:53:G:H3'	54:2y:54:5MU:H73	1.99	0.44
56:A:2:EUP:C	56:A:9:IAR:HD2	2.48	0.44
1:1A:116:A:C8	1:1A:117:A:C8	3.05	0.44
1:1A:714:U:O2	30:18:2:PRO:HD2	2.18	0.44
1:1A:1094:A:N1	1:1A:1158:G:O2'	2.41	0.44
1:1A:2119:C:H2'	1:1A:2120:U:O4'	2.17	0.44
1:1A:2230:U:O4'	23:11:52:ARG:NH2	2.51	0.44
3:1D:148:GLU:HB2	3:1D:151:LYS:HD2	2.00	0.44
6:1G:150:ASP:N	6:1G:150:ASP:OD1	2.50	0.44
32:1a:161:A:H2'	32:1a:162:A:C8	2.53	0.44
32:1a:502:G:H2'	32:1a:503:C:O4'	2.18	0.44
32:1a:1036:G:H3'	32:1a:1037:C:C6	2.53	0.44
32:1a:1054:C:C4	32:1a:1196:U:H5	2.35	0.44
32:1a:1272:G:H2'	32:1a:1273:G:O4'	2.18	0.44
39:1h:49:GLU:OE2	39:1h:62:TYR:OH	2.28	0.44
1:2A:571:A:H5'	1:2A:2030:A:N7	2.33	0.44
1:2A:910:A:N1	1:2A:2277:G:H1'	2.33	0.44
1:2A:2845:G:H2'	1:2A:2846:G:H8	1.83	0.44
13:2R:9:LYS:O	13:2R:17:ARG:HD3	2.18	0.44
32:2a:148:G:H2'	32:2a:149:A:C8	2.49	0.44
32:2a:401:C:OP2	35:2d:73:ARG:NH2	2.36	0.44
32:2a:814:A:N7	32:2a:816:A:C4	2.86	0.44
32:2a:1320:C:C1'	50:2s:73:GLU:HG2	2.48	0.44
32:2a:1320:C:H1'	50:2s:73:GLU:HG2	1.99	0.44
33:2b:18:GLY:HA3	33:2b:42:ILE:HG13	2.00	0.44
34:2c:127:ARG:NH2	34:2c:192:THR:OG1	2.50	0.44
37:2f:11:ASN:HB3	37:2f:14:LEU:HG	1.99	0.44
37:2f:14:LEU:HD22	37:2f:18:GLN:HB3	2.00	0.44
55:2x:61:C:H2'	55:2x:62:C:C6	2.52	0.44
1:1A:2143:G:H1	1:1A:2199:C:H42	1.66	0.43
12:1Q:37:LEU:HD21	12:1Q:130:LYS:HE2	1.99	0.43
19:1X:26:TYR:HB3	19:1X:92:LEU:HD22	2.00	0.43
32:1a:942:G:H21	40:1i:124:GLN:NE2	2.16	0.43
32:1a:1305:G:H22	32:1a:1331:G:H1'	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:76:GLN:HG3	33:1b:206:ASP:O	2.18	0.43
35:1d:11:LEU:HG	35:1d:66:ARG:HD3	1.99	0.43
36:1e:78:HIS:CD2	39:1h:104:ARG:HH11	2.36	0.43
38:1g:20:ASP:OD2	38:1g:63:LYS:NZ	2.49	0.43
39:1h:110:ALA:HB3	39:1h:121:ASP:HB3	1.99	0.43
43:1l:7:ILE:HD13	43:1l:10:LEU:HD12	2.00	0.43
50:1s:11:VAL:HG11	50:1s:16:LEU:HB2	1.99	0.43
50:1s:22:LEU:HB3	50:1s:27:GLU:HB3	2.00	0.43
54:1w:18:G:HO2'	54:1w:57:G:H22	1.59	0.43
54:1y:53:G:H2'	54:1y:54:5MU:C6	2.53	0.43
1:2A:817:C:O2'	1:2A:839:U:H5''	2.19	0.43
1:2A:1754:C:H5	15:2T:96:ARG:NH2	2.15	0.43
1:2A:1783:A:H5'	1:2A:2608:G:H4'	2.00	0.43
2:2B:13:A:N1	2:2B:69:G:O2'	2.46	0.43
5:2F:202:PHE:CZ	5:2F:206:ILE:HD13	2.53	0.43
8:2I:93:THR:H	8:2I:96:ASP:HB2	1.83	0.43
9:2N:20:GLY:HA2	9:2N:61:ARG:HG3	1.99	0.43
12:2Q:39:PRO:HD3	12:2Q:99:PRO:HG3	2.00	0.43
23:21:56:GLN:HE21	23:21:87:PRO:HD3	1.83	0.43
32:2a:124:G:H2'	32:2a:125:U:C6	2.53	0.43
40:2i:24:GLY:HA2	40:2i:59:PHE:O	2.18	0.43
1:1A:747:G:O2'	1:1A:1679:A:N3	2.42	0.43
1:1A:1634:C:H2'	1:1A:1635:C:C6	2.53	0.43
1:1A:1700:G:H3'	13:1R:2:ARG:HD3	1.99	0.43
1:1A:2108:U:H2'	1:1A:2109:G:C8	2.53	0.43
4:1E:47:VAL:O	4:1E:80:GLU:HA	2.19	0.43
30:18:23:VAL:HG13	30:18:47:LYS:HB3	2.01	0.43
32:1a:110:C:H2'	32:1a:111:G:O4'	2.18	0.43
32:1a:162:A:H2	32:1a:348:G:H5'	1.82	0.43
32:1a:189(C):C:H2'	32:1a:189(D):C:O4'	2.18	0.43
32:1a:265:G:H2'	32:1a:267:C:H5	1.83	0.43
32:1a:977:A:O2'	32:1a:979:C:OP2	2.35	0.43
32:1a:1360:A:H2'	32:1a:1361:G:O4'	2.17	0.43
32:1a:1427:U:H2'	32:1a:1428:A:C8	2.53	0.43
32:1a:1447:A:N6	61:1a:3570:HOH:O	2.47	0.43
36:1e:31:LEU:HD11	36:1e:129:ILE:HA	2.00	0.43
38:1g:12:LEU:HD23	38:1g:24:THR:HG22	1.99	0.43
54:1y:35:A:H2'	54:1y:36:C:C6	2.52	0.43
1:2A:797:C:H2'	1:2A:798:G:O4'	2.18	0.43
1:2A:898:C:C2'	1:2A:899:A:H5'	2.48	0.43
1:2A:1260:G:C6	1:2A:1261:C:C4	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1451:C:H42	1:2A:1459:G:H1	1.66	0.43
15:2T:56:GLY:O	15:2T:59:THR:HG22	2.18	0.43
26:24:61:ARG:HG3	26:24:62:ARG:N	2.33	0.43
32:2a:431:A:H2'	32:2a:432:A:O4'	2.18	0.43
32:2a:559:A:OP2	36:2e:126:ARG:NH2	2.51	0.43
32:2a:974:A:OP1	45:2n:31:ARG:HD3	2.17	0.43
32:2a:1121:U:H2'	32:2a:1122:U:C6	2.53	0.43
1:1A:541:C:OP1	27:15:13:LYS:NZ	2.45	0.43
1:1A:1733:C:H2'	1:1A:1734:G:O4'	2.18	0.43
1:1A:1810:U:H2'	61:1A:4666:HOH:O	2.19	0.43
1:1A:2053:A:C6	1:1A:2510:C:H1'	2.54	0.43
2:1B:88:C:H2'	2:1B:89:G:O4'	2.18	0.43
14:1S:11:LYS:HD3	14:1S:15:ARG:NH1	2.33	0.43
15:1T:28:VAL:O	15:1T:46:GLU:HA	2.18	0.43
22:10:50:ASN:HB3	22:10:63:VAL:HG22	1.99	0.43
28:16:13:CYS:SG	28:16:47:THR:HG21	2.58	0.43
32:1a:130:A:O2'	32:1a:131:C:O5'	2.29	0.43
32:1a:258:G:H2'	32:1a:259:G:H8	1.82	0.43
32:1a:922:G:H4'	36:1e:20:GLN:HA	1.99	0.43
32:1a:1038:C:H2'	32:1a:1039:C:C6	2.52	0.43
33:1b:223:ILE:HA	33:1b:226:ARG:HG2	2.00	0.43
1:2A:111:A:O2'	24:22:65:ASN:ND2	2.47	0.43
1:2A:539:G:H2'	1:2A:540:C:C6	2.54	0.43
1:2A:839:U:H2'	1:2A:840:C:C6	2.53	0.43
1:2A:900:A:O2'	1:2A:901:A:OP1	2.26	0.43
1:2A:1257:C:H4'	5:2F:83:PHE:CD1	2.53	0.43
5:2F:155:LEU:HD11	5:2F:176:LEU:HD12	2.00	0.43
15:2T:85:LYS:NZ	15:2T:87:ASP:OD2	2.41	0.43
32:2a:147:G:H2'	32:2a:148:G:H8	1.83	0.43
32:2a:607:A:H2'	32:2a:608:A:O4'	2.18	0.43
32:2a:1330:U:H2'	32:2a:1331:G:H5'	2.00	0.43
32:2a:1466:C:H2'	32:2a:1467:G:O4'	2.19	0.43
35:2d:64:LEU:HB2	35:2d:198:VAL:HG11	2.00	0.43
48:2q:6:LEU:HD23	48:2q:23:VAL:HG11	1.99	0.43
49:2r:47:THR:HG23	49:2r:49:LYS:HG3	2.00	0.43
1:1A:2128:G:H2'	1:1A:2129:C:C6	2.53	0.43
11:1P:97:PRO:HD3	11:1P:126:VAL:O	2.18	0.43
26:14:55:ARG:N	26:14:56:VAL:HA	2.30	0.43
32:1a:148:G:H2'	32:1a:149:A:C8	2.46	0.43
32:1a:559:A:H4'	32:1a:560:U:H3'	2.01	0.43
32:1a:580:U:H2'	32:1a:581:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:626:U:H2'	32:1a:627:G:H8	1.83	0.43
36:1e:33:VAL:HG21	36:1e:109:ILE:HA	2.00	0.43
1:2A:265:A:H1'	1:2A:266:G:O4'	2.18	0.43
1:2A:468:G:N7	29:27:39:ARG:NH2	2.58	0.43
1:2A:571:A:O2'	17:2V:78:LYS:HE2	2.19	0.43
1:2A:601:C:O2	1:2A:605:C:H4'	2.18	0.43
1:2A:652(B):A:H61	1:2A:655:A:H1'	1.82	0.43
1:2A:974:G:OP1	1:2A:1187:G:O2'	2.23	0.43
1:2A:1031:G:H5''	31:29:8:LYS:HE3	1.99	0.43
1:2A:1721:G:H8	1:2A:1741:A:H62	1.67	0.43
1:2A:2287:A:N6	1:2A:2344:U:H3	2.11	0.43
4:2E:101:ARG:HD3	4:2E:101:ARG:HA	1.80	0.43
6:2G:62:LEU:HA	26:24:27:THR:HG21	1.99	0.43
7:2H:13:LYS:HA	7:2H:14:GLY:HA2	1.63	0.43
18:2W:18:ARG:HG2	18:2W:76:VAL:HB	2.00	0.43
24:22:1:MET:SD	24:22:56:GLN:NE2	2.91	0.43
32:2a:580:U:H2'	32:2a:581:G:O4'	2.18	0.43
32:2a:790:A:C6	32:2a:791:G:C6	3.06	0.43
32:2a:1222:G:OP1	50:2s:77:THR:HG21	2.18	0.43
32:2a:1259:C:C4	32:2a:1260:C:H1'	2.53	0.43
32:2a:1289:A:OP1	52:2u:10:ARG:NH2	2.51	0.43
38:2g:47:CYS:O	38:2g:50:ILE:HG22	2.19	0.43
44:2m:91:ARG:HD3	44:2m:97:PRO:O	2.18	0.43
54:2w:18:G:H4'	54:2w:60:C:C5	2.53	0.43
1:1A:1106:U:N3	1:1A:1134:A:H8	2.15	0.43
1:1A:1756:U:H2'	1:1A:1757:C:C6	2.54	0.43
2:1B:106:G:C5'	21:1Z:31:ARG:HG2	2.49	0.43
4:1E:1:MET:HE2	4:1E:202:LYS:NZ	2.32	0.43
12:1Q:141:GLN:NE2	21:1Z:76:LEU:HD13	2.33	0.43
13:1R:59:ASP:OD1	13:1R:59:ASP:N	2.52	0.43
27:15:16:ARG:O	27:15:20:ARG:HG3	2.19	0.43
32:1a:1304:G:C6	32:1a:1305:G:N1	2.86	0.43
40:1i:70:LYS:O	40:1i:74:ILE:HG13	2.19	0.43
1:2A:1359:A:H2'	1:2A:1360:A:H5'	1.99	0.43
1:2A:1412:A:H2'	1:2A:1413:G:H8	1.84	0.43
1:2A:2408:U:H2'	1:2A:2409:G:C8	2.53	0.43
1:2A:2478:A:OP2	31:29:2:LYS:NZ	2.47	0.43
1:2A:2704:C:H2'	1:2A:2705:A:O4'	2.19	0.43
1:2A:2841:C:H2'	1:2A:2842:G:C8	2.53	0.43
7:2H:105:LEU:N	7:2H:113:VAL:O	2.36	0.43
8:2I:84:GLY:O	8:2I:86:THR:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:27:47:ARG:HA	29:27:47:ARG:HD3	1.85	0.43
32:2a:362:G:N2	32:2a:365:U:OP2	2.51	0.43
32:2a:1269:A:N1	32:2a:1312:G:O2'	2.46	0.43
32:2a:1391:U:H2'	32:2a:1392:G:C8	2.54	0.43
33:2b:74:LYS:O	33:2b:78:GLN:HG2	2.19	0.43
34:2c:40:ARG:HG3	34:2c:55:VAL:HG11	2.00	0.43
35:2d:22:LYS:HB2	35:2d:26:CYS:SG	2.58	0.43
48:2q:6:LEU:HD13	48:2q:71:PHE:CE2	2.47	0.43
54:2w:1:G:H2'	54:2w:2:G:H5'	1.99	0.43
56:C:8:LYS:HA	56:C:9:IAR:HB2	2.00	0.43
1:1A:494:G:H5''	5:1F:60:SER:HB2	1.99	0.43
1:1A:1220:U:H4'	1:1A:1221:G:OP1	2.19	0.43
1:1A:1685:C:O3'	1:1A:2721:G:N2	2.51	0.43
1:1A:1903:C:H2'	1:1A:1904:C:H6	1.83	0.43
1:1A:2807:C:N4	1:1A:2813:G:H22	2.17	0.43
4:1E:101:ARG:HD3	4:1E:101:ARG:HA	1.87	0.43
32:1a:6:G:O2'	32:1a:7:G:H5'	2.18	0.43
34:1c:22:TRP:CZ2	45:1n:54:PRO:HG2	2.53	0.43
1:2A:1042:G:N7	1:2A:1043:C:N4	2.66	0.43
1:2A:1747(A):G:H2'	1:2A:1748:G:H8	1.83	0.43
1:2A:2149:G:C6	1:2A:2150:U:N3	2.87	0.43
1:2A:2316:C:O2'	6:2G:128:ARG:NH2	2.52	0.43
2:2B:24:G:H4'	2:2B:25:A:C8	2.54	0.43
32:2a:818:G:O2'	32:2a:819:A:H5'	2.19	0.43
32:2a:1002:G:C2	32:2a:1003:G:H1'	2.53	0.43
33:2b:51:LEU:HD21	33:2b:201:ILE:HG23	2.00	0.43
36:2e:122:GLU:O	36:2e:126:ARG:NH1	2.48	0.43
1:1A:1513:G:HO2'	1:1A:1593:C:HO2'	1.63	0.43
1:1A:1873:G:O2'	3:1D:253:GLN:OE1	2.34	0.43
1:1A:2331:G:H22	14:1S:3:ARG:NE	2.17	0.43
32:1a:432:A:H3'	32:1a:433:C:C6	2.54	0.43
32:1a:955:U:O2'	50:1s:83:HIS:HD2	2.02	0.43
32:1a:1048:G:OP1	45:1n:3:ARG:HB3	2.18	0.43
32:1a:1057:G:H2'	32:1a:1058:G:O4'	2.19	0.43
32:1a:1072:G:C5	32:1a:1073:U:C4	3.06	0.43
32:1a:1226:C:P	44:1m:91:ARG:HH22	2.42	0.43
33:1b:100:GLY:N	33:1b:176:GLU:OE2	2.44	0.43
1:2A:752:A:H3'	29:27:1:MET:CE	2.47	0.43
1:2A:1316:U:H2'	1:2A:1317:A:H8	1.82	0.43
1:2A:2512:C:H2'	1:2A:2513:G:O4'	2.19	0.43
6:2G:143:GLU:OE1	6:2G:143:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:27:1:MET:HE3	29:27:3:ARG:NH2	2.34	0.43
32:2a:266:G:H2'	32:2a:266:G:N3	2.34	0.43
32:2a:630:G:H2'	32:2a:631:G:C8	2.54	0.43
32:2a:1050:G:H5'	56:C:5:ORD:HG3	2.01	0.43
32:2a:1057:G:H2'	32:2a:1058:G:O4'	2.18	0.43
32:2a:1518:MA6:C6	32:2a:1519:MA6:H103	2.48	0.43
33:2b:100:GLY:N	33:2b:176:GLU:OE2	2.41	0.43
36:2e:34:VAL:HG11	36:2e:63:ARG:HG3	2.00	0.43
50:2s:27:GLU:CD	50:2s:28:LYS:HZ3	2.20	0.43
55:2x:58:A:H4'	55:2x:59:A:OP1	2.18	0.43
55:2x:66:C:H2'	55:2x:67:C:O4'	2.19	0.43
1:1A:41:C:H2'	1:1A:42:G:O4'	2.19	0.43
1:1A:1053:C:OP1	9:1N:37:LYS:NZ	2.46	0.43
1:1A:1102:G:O2'	1:1A:1132:A:H1'	2.18	0.43
1:1A:1108:G:N7	1:1A:1134:A:H2'	2.34	0.43
1:1A:2707:C:H2'	1:1A:2708:U:C6	2.54	0.43
4:1E:37:ARG:O	4:1E:45:THR:HA	2.19	0.43
15:1T:127:ALA:C	15:1T:129:ARG:N	2.75	0.43
32:1a:176:C:H2'	32:1a:177:C:C6	2.54	0.43
32:1a:831:U:H2'	32:1a:832:C:H6	1.82	0.43
32:1a:857:C:H2'	32:1a:858:G:O4'	2.19	0.43
32:1a:1144:G:H21	32:1a:1146:A:H62	1.67	0.43
33:1b:112:VAL:O	33:1b:116:GLU:N	2.32	0.43
40:1i:20:ARG:O	40:1i:60:ASP:N	2.52	0.43
54:1y:2:G:O6	54:1y:71:C:N3	2.52	0.43
1:2A:108:U:H2'	1:2A:109:G:H8	1.83	0.43
1:2A:860:U:C2	1:2A:2268:A:C8	3.07	0.43
2:2B:19:G:H2'	2:2B:20:C:O4'	2.18	0.43
2:2B:83:G:H1	2:2B:94:C:H42	1.66	0.43
10:2O:34:THR:OG1	10:2O:35:VAL:N	2.52	0.43
32:2a:8:A:N6	35:2d:209:ARG:HB2	2.33	0.43
32:2a:553:A:H2'	32:2a:554:C:C6	2.54	0.43
32:2a:736:C:H2'	32:2a:737:A:H8	1.84	0.43
32:2a:779:C:H2'	32:2a:780:A:O4'	2.19	0.43
32:2a:1203:C:H2'	32:2a:1204:A:C8	2.54	0.43
32:2a:1261:A:N6	32:2a:1273:G:H1	2.16	0.43
54:2y:50:G:C2'	54:2y:51:C:H5'	2.49	0.43
1:1A:504:A:N1	1:1A:525:G:H4'	2.33	0.43
1:1A:1112:U:H2'	1:1A:1114:G:OP2	2.19	0.43
1:1A:1138:C:N4	1:1A:1145:G:H1	2.15	0.43
1:1A:1765:U:H2'	1:1A:1766:G:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2347:A:C8	1:1A:2349:G:C5	3.07	0.43
4:1E:117:MET:HE2	4:1E:117:MET:HB3	1.90	0.43
8:1I:68:LEU:HD13	8:1I:109:ILE:HD11	2.01	0.43
32:1a:1002:G:C2	32:1a:1004:A:H1'	2.53	0.43
40:1i:8:GLY:O	40:1i:76:ALA:HB1	2.19	0.43
44:1m:108:ARG:HD3	44:1m:108:ARG:HA	1.72	0.43
1:2A:868:U:C4	1:2A:869:G:N7	2.87	0.43
1:2A:884:C:H3'	1:2A:885:C:C6	2.53	0.43
1:2A:895:U:H2'	1:2A:897:C:C5	2.54	0.43
1:2A:1165:U:H2'	1:2A:1166:C:C6	2.54	0.43
1:2A:1593:G:H2'	1:2A:1594:G:C8	2.54	0.43
1:2A:2031:A:C6	1:2A:2498:C:H1'	2.53	0.43
1:2A:2870:C:H2'	1:2A:2871:C:O4'	2.19	0.43
5:2F:164:ARG:O	5:2F:168:ARG:HB2	2.19	0.43
5:2F:202:PHE:O	5:2F:206:ILE:HG12	2.19	0.43
6:2G:38:VAL:HG22	6:2G:93:THR:HG23	2.01	0.43
7:2H:152:ARG:HD3	7:2H:152:ARG:HA	1.80	0.43
21:2Z:93:ASP:HB3	21:2Z:131:ARG:HH22	1.84	0.43
25:23:39:ASP:OD1	25:23:44:ARG:HD2	2.19	0.43
32:2a:1343:G:H1'	40:2i:121:ARG:NH1	2.34	0.43
32:2a:1347:G:HO2'	32:2a:1348:U:P	2.42	0.43
42:2k:80:VAL:HG11	42:2k:103:LEU:HD13	2.00	0.43
43:2l:57:LYS:HE3	43:2l:57:LYS:HB2	1.79	0.43
44:2m:64:TRP:HB2	44:2m:66:LEU:HD21	2.01	0.43
51:2t:72:LEU:HD23	51:2t:72:LEU:HA	1.85	0.43
52:2u:6:ARG:HE	52:2u:15:ARG:CZ	2.32	0.43
1:1A:185:A:H2'	1:1A:185:A:N3	2.33	0.43
1:1A:1094:A:OP2	1:1A:1155:C:N4	2.48	0.43
1:1A:1273:G:OP1	16:1U:13:LYS:HG2	2.19	0.43
1:1A:1725:G:O6	61:1A:4264:HOH:O	2.21	0.43
1:1A:2149:G:N1	1:1A:2183:C:N4	2.52	0.43
1:1A:2155:G:N2	1:1A:2179:G:H1'	2.34	0.43
11:1P:101:VAL:HG23	11:1P:106:LEU:O	2.18	0.43
30:18:52:LYS:N	30:18:53:PRO:HD2	2.34	0.43
32:1a:265:G:H5'	48:1q:64:PRO:O	2.19	0.43
32:1a:412:A:N6	35:1d:35:ARG:HG3	2.34	0.43
32:1a:491:G:H2'	32:1a:492:G:O4'	2.18	0.43
32:1a:690:G:C6	32:1a:691:G:C6	3.07	0.43
32:1a:1278:U:H5'	32:1a:1279:A:H5'	2.01	0.43
32:1a:1399:C:H4'	32:1a:1400:5MC:H5''	2.01	0.43
37:1f:37:VAL:HA	37:1f:65:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:1r:33:ASP:OD2	49:1r:36:ASN:HB2	2.18	0.43
1:2A:740:U:H2'	1:2A:741:G:C8	2.54	0.43
1:2A:1890:A:OP2	61:2A:3965:HOH:O	2.21	0.43
1:2A:2365:G:O6	30:28:39:LYS:HE3	2.18	0.43
1:2A:2484:G:C2	1:2A:2485:G:C8	3.07	0.43
1:2A:2893:G:H5''	1:2A:2894:G:O4'	2.19	0.43
5:2F:108:LYS:HG2	5:2F:112:MET:HE3	2.00	0.43
6:2G:3:LEU:HD11	6:2G:97:ASP:HB3	2.00	0.43
10:2O:64:ARG:HB2	10:2O:79:PHE:CG	2.54	0.43
32:2a:553:A:H5''	43:2l:24:VAL:HG21	2.01	0.43
32:2a:565:U:OP2	32:2a:566:G:O2'	2.20	0.43
32:2a:1387:G:H2'	32:2a:1388:C:H6	1.84	0.43
32:2a:1509:C:H2'	32:2a:1510:U:O4'	2.18	0.43
35:2d:146:ILE:N	35:2d:183:GLY:O	2.50	0.43
36:2e:88:LYS:HD3	36:2e:123:LEU:HD12	2.01	0.43
46:2o:39:LEU:HD13	46:2o:56:LEU:HB2	2.00	0.43
47:2p:23:ASP:OD1	47:2p:24:ALA:N	2.51	0.43
55:2x:47:U:H3'	55:2x:48:C:C5'	2.49	0.43
56:B:6:LYS:N	56:B:7:IAR:O	2.52	0.43
1:1A:239:G:P	30:18:13:ARG:NH2	2.92	0.42
1:1A:789:G:H4'	1:1A:1723:A:H5'	2.01	0.42
1:1A:1139:G:O2'	1:1A:1144:A:N6	2.52	0.42
13:1R:36:THR:HG22	13:1R:37:THR:H	1.83	0.42
32:1a:38:G:O2'	32:1a:39:G:H5''	2.19	0.42
32:1a:860:A:H2'	32:1a:861:G:O4'	2.19	0.42
34:1c:6:HIS:HD2	34:1c:8:ILE:N	2.13	0.42
34:1c:124:ILE:HD12	34:1c:196:LEU:HD13	2.00	0.42
39:1h:49:GLU:HG2	39:1h:62:TYR:HE2	1.84	0.42
39:1h:51:VAL:HG12	39:1h:52:ASP:H	1.82	0.42
48:1q:9:VAL:O	48:1q:21:VAL:HA	2.19	0.42
54:1w:60:C:H5'	61:1w:202:HOH:O	2.18	0.42
1:2A:1630:G:H2'	1:2A:1631:C:C6	2.54	0.42
1:2A:2140:C:H2'	1:2A:2141:G:H5''	2.01	0.42
1:2A:2870:C:H5''	13:2R:65:LEU:HD21	2.01	0.42
4:2E:36:ARG:NH1	4:2E:85:ASN:OD1	2.52	0.42
7:2H:3:ARG:HG2	7:2H:6:ARG:NE	2.33	0.42
9:2N:29:LYS:HE3	9:2N:140:VAL:O	2.19	0.42
25:23:46:ASN:O	25:23:50:VAL:HG22	2.18	0.42
32:2a:15:G:C4	32:2a:16:A:C8	3.06	0.42
32:2a:151:A:H2'	32:2a:152:A:O4'	2.19	0.42
32:2a:382:A:H2'	32:2a:383:A:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:977:A:O2'	32:2a:979:C:OP2	2.34	0.42
32:2a:1002:G:N3	32:2a:1003:G:H1'	2.34	0.42
33:2b:84:GLU:HB3	33:2b:219:VAL:HG21	2.00	0.42
35:2d:60:GLU:HG3	35:2d:202:LEU:HD12	2.01	0.42
35:2d:79:PHE:HE1	35:2d:204:ILE:HD13	1.82	0.42
44:2m:25:ILE:HG23	44:2m:29:ARG:HB2	2.00	0.42
1:1A:734:C:H2'	1:1A:735:U:O4'	2.18	0.42
1:1A:848:G:O6	5:1F:53:THR:OG1	2.36	0.42
1:1A:1016:C:H2'	1:1A:1017:G:O4'	2.19	0.42
1:1A:1100:A:H3'	1:1A:1101:G:C8	2.54	0.42
1:1A:2055:A:OP1	61:1A:4265:HOH:O	2.21	0.42
1:1A:2190:G:O6	1:1A:2193:A:H5''	2.18	0.42
1:1A:2692:C:H5'	4:1E:189:PRO:HA	2.01	0.42
1:1A:2867:G:N2	1:1A:2870:A:OP2	2.48	0.42
4:1E:9:VAL:HB	15:1T:3:ARG:HG2	2.01	0.42
5:1F:132:VAL:CG2	5:1F:163:VAL:HG22	2.49	0.42
6:1G:142:PRO:HB2	26:14:31:ILE:HG21	2.02	0.42
7:1H:94:TYR:OH	7:1H:152:ARG:NH1	2.52	0.42
9:1N:90:MET:HE2	9:1N:90:MET:HB2	1.94	0.42
32:1a:162:A:N7	32:1a:163:C:H1'	2.34	0.42
32:1a:636:U:H2'	32:1a:637:G:C8	2.53	0.42
32:1a:1136:U:H5''	32:1a:1137:C:N3	2.34	0.42
32:1a:1518:MA6:H93	32:1a:1519:MA6:H92	2.01	0.42
40:1i:23:ASN:N	40:1i:60:ASP:OD1	2.52	0.42
51:1t:82:SER:O	51:1t:86:ARG:HB2	2.20	0.42
1:2A:918:A:C2	2:2B:80:U:H4'	2.54	0.42
1:2A:940:G:N3	1:2A:1191:G:H4'	2.34	0.42
1:2A:2694:G:C6	1:2A:2695:C:C4	3.07	0.42
10:2O:64:ARG:HB2	10:2O:79:PHE:CD2	2.54	0.42
12:2Q:35:VAL:HG12	12:2Q:130:LYS:O	2.18	0.42
18:2W:34:ASN:ND2	27:25:39:MET:HG3	2.34	0.42
32:2a:1015:A:H2'	32:2a:1016:A:C8	2.54	0.42
32:2a:1228:C:H2'	32:2a:1229:A:C8	2.54	0.42
33:2b:170:GLU:HG3	33:2b:173:ALA:HB3	2.00	0.42
34:2c:180:ALA:HB1	34:2c:203:PHE:CE1	2.52	0.42
41:2j:33:GLN:O	41:2j:74:ILE:HD12	2.19	0.42
54:2w:72:C:H2'	54:2w:73:A:C8	2.53	0.42
1:1A:1108:G:C8	1:1A:1134:A:H2'	2.53	0.42
1:1A:1912:A:OP2	61:1A:4269:HOH:O	2.22	0.42
5:1F:53:THR:CG2	5:1F:55:GLY:H	2.26	0.42
32:1a:134:A:H1'	32:1a:325:A:C5	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:582:U:H5''	46:1o:64:ARG:HH22	1.84	0.42
32:1a:1121:U:H2'	32:1a:1122:U:H6	1.84	0.42
32:1a:1144:G:C6	32:1a:1145:C:N4	2.87	0.42
33:1b:73:THR:HG22	33:1b:95:GLN:O	2.18	0.42
36:1e:105:VAL:HB	36:1e:106:PRO:HD3	2.00	0.42
1:2A:480:A:O5'	20:2Y:47:LYS:HD3	2.19	0.42
1:2A:804:A:H5''	61:2A:3918:HOH:O	2.19	0.42
1:2A:1019:U:H3	1:2A:1142(A):A:N6	2.14	0.42
1:2A:1221(A):C:C2	1:2A:1229:G:C2	3.07	0.42
1:2A:1364:G:P	23:21:3:LYS:HG3	2.60	0.42
1:2A:1721:G:H2'	1:2A:1740:G:O6	2.19	0.42
1:2A:2285:C:OP2	28:26:6:ARG:NH1	2.53	0.42
1:2A:2557:G:H2'	1:2A:2558:C:H6	1.84	0.42
1:2A:2626:C:H2'	1:2A:2627:G:O4'	2.19	0.42
1:2A:2882:A:H5'	13:2R:96:ARG:HB2	2.01	0.42
3:2D:275:LYS:HB3	3:2D:276:LYS:HA	2.01	0.42
7:2H:33:LEU:HD21	7:2H:136:ILE:HG13	2.01	0.42
16:2U:74:LEU:HD13	16:2U:79:PHE:HB2	2.00	0.42
18:2W:1:MET:HE2	18:2W:62:HIS:HB3	2.01	0.42
32:2a:718:G:H5'	42:2k:117:ASN:ND2	2.33	0.42
32:2a:1024:G:H2'	32:2a:1025:U:H5''	2.01	0.42
32:2a:1347:G:H22	32:2a:1374:A:P	2.42	0.42
32:2a:1502:A:C8	32:2a:1505:G:N2	2.87	0.42
33:2b:188:ALA:O	33:2b:202:PRO:HA	2.19	0.42
38:2g:65:ALA:HB1	38:2g:127:ALA:HB3	2.01	0.42
40:2i:16:ARG:HB2	40:2i:64:THR:HG22	2.00	0.42
44:2m:94:ARG:O	44:2m:96:LEU:HG	2.18	0.42
50:2s:77:THR:HG23	50:2s:78:ARG:HG3	2.01	0.42
56:A:5:ORD:HA	56:A:6:PRO:HD3	1.82	0.42
1:1A:27:G:O2'	1:1A:28:A:OP2	2.37	0.42
1:1A:83:A:H5'	20:1Y:8:LYS:HG2	2.01	0.42
1:1A:1388:A:O2'	1:1A:1390:G:OP2	2.31	0.42
1:1A:1857:G:H4'	3:1D:242:ARG:HH21	1.83	0.42
1:1A:2832:G:O2'	1:1A:2834:C:OP2	2.28	0.42
1:1A:2897:U:H2'	1:1A:2898:C:C6	2.54	0.42
2:1B:29:A:O2'	2:1B:58:A:N1	2.51	0.42
10:1O:16:ALA:HB2	10:1O:52:VAL:HG21	2.01	0.42
21:1Z:91:LEU:HD23	21:1Z:130:PRO:HB3	2.01	0.42
21:1Z:125:LEU:HB3	21:1Z:165:VAL:HG13	2.00	0.42
25:13:7:LYS:HE3	25:13:32:GLN:NE2	2.35	0.42
32:1a:234:C:H2'	32:1a:235:C:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:445:G:H2'	32:1a:446:G:H8	1.84	0.42
32:1a:1291:G:H4'	40:1i:39:GLY:HA3	2.01	0.42
34:1c:9:GLY:HA3	45:1n:49:HIS:HA	2.01	0.42
35:1d:11:LEU:HD23	35:1d:66:ARG:HB3	2.01	0.42
44:1m:11:ARG:C	44:1m:13:LYS:H	2.27	0.42
55:1x:16:C:O2	55:1x:60:U:H4'	2.19	0.42
1:2A:96:G:H4'	24:22:48:HIS:CD2	2.54	0.42
1:2A:972:G:OP2	1:2A:973:A:O2'	2.34	0.42
1:2A:1477:A:H2'	1:2A:1478:G:O4'	2.20	0.42
1:2A:2238:G:H2'	1:2A:2238:G:N3	2.34	0.42
2:2B:17:C:H2'	2:2B:18:G:O4'	2.19	0.42
2:2B:31:C:H4'	6:2G:29:TRP:CH2	2.54	0.42
6:2G:109:VAL:C	6:2G:112:PRO:HD2	2.44	0.42
30:28:14:VAL:HG13	30:28:22:VAL:HG13	2.01	0.42
32:2a:189(C):C:H2'	32:2a:189(D):C:O4'	2.18	0.42
32:2a:662:G:H2'	32:2a:663:A:C8	2.54	0.42
32:2a:975:A:N1	41:2j:48:THR:HB	2.34	0.42
32:2a:1207:2MG:H2'	32:2a:1208:C:C6	2.55	0.42
32:2a:1274:G:H2'	32:2a:1275:A:H5''	2.01	0.42
32:2a:1325:C:H5''	52:2u:17:THR:HG21	2.01	0.42
1:1A:1554:A:O2'	1:1A:1555:C:OP1	2.31	0.42
1:1A:2127:C:H2'	1:1A:2128:G:C8	2.55	0.42
1:1A:2310:A:H2'	1:1A:2311:G:O4'	2.20	0.42
1:1A:2346:G:H4'	1:1A:2347:A:OP2	2.19	0.42
1:1A:2787:C:H2'	1:1A:2788:A:O4'	2.19	0.42
8:1I:93:THR:H	8:1I:96:ASP:HB2	1.84	0.42
32:1a:153:C:N4	32:1a:168:G:H1	2.17	0.42
32:1a:189:G:C6	32:1a:189(L):G:N1	2.87	0.42
32:1a:624:C:H2'	32:1a:625:G:C8	2.55	0.42
47:1p:47:ASP:OD1	47:1p:47:ASP:N	2.53	0.42
51:1t:53:LEU:HB2	51:1t:100:ILE:HD11	2.02	0.42
1:2A:271(H):G:H2'	1:2A:271(I):G:C8	2.54	0.42
1:2A:981:A:N1	1:2A:2027:G:O2'	2.48	0.42
1:2A:1810:A:H2'	1:2A:1811:G:O4'	2.20	0.42
1:2A:2070:G:H2'	1:2A:2071:A:H8	1.82	0.42
1:2A:2152:G:N3	1:2A:2153:G:H1'	2.35	0.42
6:2G:11:TYR:O	6:2G:16:ARG:N	2.45	0.42
14:2S:65:VAL:O	14:2S:69:VAL:HG12	2.19	0.42
21:2Z:98:MET:HE3	21:2Z:98:MET:HB2	1.94	0.42
32:2a:324:G:OP1	51:2t:22:ARG:HD2	2.19	0.42
33:2b:53:ARG:O	33:2b:56:ARG:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:153:VAL:HA	34:2c:197:GLY:O	2.20	0.42
51:2t:63:ILE:HG22	51:2t:77:ALA:HB1	2.01	0.42
1:1A:238:C:O2	30:18:12:LYS:NZ	2.45	0.42
1:1A:276:C:O3'	8:1I:42:SER:OG	2.32	0.42
1:1A:1406:A:OP2	61:1A:4268:HOH:O	2.22	0.42
1:1A:1410:G:C8	23:11:3:LYS:HD2	2.54	0.42
1:1A:2148:A:N3	1:1A:2149:G:HI'	2.34	0.42
1:1A:2343:G:O2'	1:1A:2348:A:N1	2.40	0.42
1:1A:2568:C:N3	61:1A:4372:HOH:O	2.37	0.42
1:1A:2647:C:H4'	4:1E:48:GLN:HE21	1.85	0.42
1:1A:2830:A:P	13:1R:2:ARG:HH22	2.42	0.42
17:1V:72:VAL:HG13	17:1V:85:LYS:HB3	2.02	0.42
18:1W:34:ASN:OD1	18:1W:37:ARG:NH2	2.53	0.42
32:1a:437:U:H5''	35:1d:155:LEU:HD11	2.02	0.42
32:1a:600:C:H2'	32:1a:601:C:C6	2.54	0.42
32:1a:736:C:H2'	32:1a:737:A:H8	1.84	0.42
32:1a:1149:C:H2'	32:1a:1150:U:C6	2.53	0.42
32:1a:1315:U:H2'	32:1a:1316:G:O4'	2.19	0.42
33:1b:196:LEU:HD12	33:1b:196:LEU:HA	1.92	0.42
37:1f:98:LEU:HD23	49:1r:30:ASP:HB2	2.01	0.42
38:1g:59:LEU:HD11	38:1g:63:LYS:HE2	2.01	0.42
54:1y:7:U:OP1	54:1y:8:4SU:H5	2.19	0.42
1:2A:289:A:H2'	1:2A:290:G:O4'	2.20	0.42
1:2A:336:C:HO2'	20:2Y:35:TYR:HH	1.62	0.42
1:2A:965:C:OP2	61:2A:3964:HOH:O	2.21	0.42
1:2A:2097:C:H2'	1:2A:2098:U:O4'	2.19	0.42
1:2A:2127:G:H22	1:2A:2160:G:H22	1.68	0.42
1:2A:2872:G:O2'	1:2A:2873:A:H5'	2.19	0.42
2:2B:59:A:H2'	2:2B:60:C:O4'	2.20	0.42
4:2E:167:VAL:HG22	4:2E:170:LEU:HD11	2.02	0.42
21:2Z:36:LYS:HE3	21:2Z:36:LYS:HB2	1.80	0.42
29:27:29:LYS:O	29:27:33:ARG:HG3	2.20	0.42
32:2a:265:G:O3'	48:2q:66:SER:HA	2.20	0.42
32:2a:1038:C:H2'	32:2a:1039:C:C6	2.54	0.42
32:2a:1142:G:H2'	32:2a:1143:G:O4'	2.20	0.42
33:2b:15:VAL:HB	33:2b:209:ARG:HG3	2.00	0.42
36:2e:105:VAL:HB	36:2e:106:PRO:HD3	2.01	0.42
47:2p:51:VAL:HG12	47:2p:53:VAL:N	2.35	0.42
55:2x:53:G:H3'	55:2x:54:5MU:H73	2.02	0.42
1:1A:180:A:H2'	1:1A:181:C:C6	2.55	0.42
1:1A:1418:U:H2'	1:1A:1419:A:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2803:A:H5''	1:1A:2804:C:H5'	2.01	0.42
6:1G:38:VAL:HG22	6:1G:93:THR:HG23	2.02	0.42
7:1H:3:ARG:NH1	7:1H:5:GLY:H	2.17	0.42
21:1Z:5:LEU:O	21:1Z:59:LEU:HA	2.20	0.42
32:1a:300:A:O2'	32:1a:564:C:N3	2.44	0.42
32:1a:511:C:OP2	35:1d:49:ARG:NH1	2.52	0.42
32:1a:539:A:H2'	32:1a:540:G:H8	1.84	0.42
32:1a:575:G:O2'	32:1a:821:G:H5'	2.20	0.42
32:1a:757:U:H2'	32:1a:758:G:O4'	2.19	0.42
32:1a:1371:G:O3'	40:1i:69:GLY:HA3	2.18	0.42
44:1m:108:ARG:NH1	44:1m:111:LYS:HD2	2.34	0.42
45:1n:23:ARG:HD2	45:1n:28:GLY:O	2.19	0.42
47:1p:20:VAL:HG21	47:1p:32:TYR:CG	2.55	0.42
47:1p:56:ALA:O	47:1p:60:LEU:HB2	2.20	0.42
54:1y:55:PSU:C4	54:1y:57:G:H5'	2.55	0.42
1:2A:493:G:H2'	1:2A:494:G:O4'	2.20	0.42
1:2A:853:G:H2'	1:2A:854:G:H8	1.84	0.42
1:2A:1805:U:O2	3:2D:50:THR:HB	2.20	0.42
1:2A:2482:G:H4'	54:2w:64:U:HO2'	1.83	0.42
9:2N:67:LEU:HD23	9:2N:87:LEU:HD22	2.02	0.42
23:21:3:LYS:HB3	23:21:4:VAL:H	1.64	0.42
32:2a:196:A:N3	32:2a:222:U:H1'	2.35	0.42
32:2a:950:U:H2'	32:2a:951:G:H8	1.85	0.42
32:2a:1236:A:O2'	32:2a:1304:G:H4'	2.20	0.42
41:2j:27:ALA:HB1	41:2j:74:ILE:HD13	2.02	0.42
43:2l:70:ILE:HG12	43:2l:100:ILE:HD12	2.02	0.42
44:2m:95:GLY:O	44:2m:110:ARG:HG3	2.20	0.42
1:1A:11:G:H2'	1:1A:12:U:H5''	2.00	0.42
1:1A:77:A:H2'	1:1A:78:G:C8	2.55	0.42
1:1A:2018:C:H4'	1:1A:2019:G:OP1	2.20	0.42
1:1A:2290:A:OP2	22:10:12:ASN:ND2	2.48	0.42
6:1G:3:LEU:O	6:1G:8:LYS:NZ	2.36	0.42
19:1X:94:GLY:H	19:1X:95:LEU:HB2	1.84	0.42
21:1Z:150:LEU:HG	21:1Z:151:HIS:N	2.34	0.42
32:1a:60:A:N1	32:1a:107:G:O2'	2.48	0.42
32:1a:872:A:C8	32:1a:874:G:C8	3.08	0.42
32:1a:1030(C):G:H2'	32:1a:1030(D):A:C8	2.55	0.42
1:2A:1180:C:H2'	1:2A:1181:C:H6	1.85	0.42
1:2A:2183:C:H2'	1:2A:2184:G:H8	1.85	0.42
1:2A:2647:U:H2'	1:2A:2648:C:C6	2.55	0.42
5:2F:178:PRO:HB2	5:2F:201:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:62:VAL:CG1	9:2N:66:LYS:HB2	2.50	0.42
32:2a:526:C:OP2	43:2l:91:LYS:HE3	2.19	0.42
32:2a:834:C:H2'	32:2a:835:U:H6	1.85	0.42
32:2a:1379:G:O6	38:2g:2:ALA:HB3	2.20	0.42
35:2d:8:VAL:HG12	35:2d:22:LYS:HE3	2.01	0.42
39:2h:86:ILE:HG13	39:2h:133:LEU:HD22	2.01	0.42
48:2q:53:LEU:HB3	48:2q:82:MET:SD	2.59	0.42
51:2t:59:ALA:O	51:2t:63:ILE:HG13	2.20	0.42
1:1A:173:C:H2'	1:1A:174:U:H6	1.84	0.42
1:1A:592:U:O2'	1:1A:1029:A:N1	2.51	0.42
1:1A:1105:G:H1	1:1A:1125:C:N4	2.18	0.42
1:1A:1715:A:H4'	1:1A:1716:A:O5'	2.19	0.42
1:1A:2149:G:H21	1:1A:2195:A:H1'	1.85	0.42
32:1a:1121:U:H2'	32:1a:1122:U:C6	2.54	0.42
32:1a:1148:U:H2'	32:1a:1149:C:O4'	2.19	0.42
32:1a:1152:A:OP1	41:1j:68:HIS:ND1	2.53	0.42
54:1y:37:6MZ:H2'	54:1y:38:A:C8	2.55	0.42
1:2A:458:G:C8	29:27:37:LYS:HG2	2.55	0.42
1:2A:1495:A:H8	1:2A:1495:A:O5'	2.03	0.42
32:2a:1202:G:H1'	45:2n:29:ARG:HD2	2.02	0.42
32:2a:1269:A:H2	32:2a:1312:G:N3	2.17	0.42
34:2c:37:GLN:O	34:2c:41:GLY:N	2.53	0.42
35:2d:61:LYS:HD3	35:2d:206:PHE:CE2	2.55	0.42
36:2e:51:VAL:O	36:2e:55:VAL:HG23	2.19	0.42
36:2e:113:ALA:HB3	36:2e:115:VAL:HG23	2.00	0.42
36:2e:143:ARG:NE	39:2h:77:GLU:OE2	2.37	0.42
42:2k:43:SER:OG	42:2k:44:SER:N	2.53	0.42
51:2t:47:GLY:HA2	51:2t:48:LYS:C	2.44	0.42
1:1A:83:A:C5'	20:1Y:8:LYS:HG2	2.50	0.42
1:1A:603:C:H2'	1:1A:604:C:C6	2.55	0.42
1:1A:1830:G:O2'	3:1D:181:GLU:OE2	2.28	0.42
1:1A:2060:G:H2'	1:1A:2061:C:O4'	2.20	0.42
1:1A:2283:G:OP1	22:10:18:ALA:HB1	2.20	0.42
1:1A:2504:U:H2'	1:1A:2505:U:C6	2.55	0.42
1:1A:2859:U:OP2	15:1T:95:ARG:NH1	2.53	0.42
6:1G:82:LEU:HD23	6:1G:82:LEU:HA	1.90	0.42
32:1a:109:A:C6	32:1a:326:G:C6	3.08	0.42
51:1t:36:LEU:HD12	51:1t:62:LEU:HD12	2.01	0.42
51:1t:47:GLY:HA2	51:1t:48:LYS:C	2.45	0.42
1:2A:336:C:O2'	20:2Y:35:TYR:OH	2.36	0.42
1:2A:592:G:O2'	30:28:4:MET:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:747:U:O2	1:2A:2014:A:H1'	2.19	0.42
1:2A:958:U:H5''	12:2Q:14:ARG:HD3	2.02	0.42
1:2A:1607:C:H4'	1:2A:1608:A:O5'	2.20	0.42
1:2A:2647:U:H2'	1:2A:2648:C:H6	1.85	0.42
4:2E:101:ARG:CZ	4:2E:171:GLU:HB2	2.50	0.42
30:28:62:LEU:HB3	30:28:65:GLU:HG2	2.02	0.42
32:2a:57:G:H2'	32:2a:58:C:C6	2.54	0.42
32:2a:256:U:OP1	48:2q:17:LYS:NZ	2.48	0.42
32:2a:926:G:C6	32:2a:1505:G:C6	3.08	0.42
32:2a:1326:C:OP1	52:2u:12:LYS:NZ	2.39	0.42
36:2e:110:LEU:HD13	36:2e:118:ILE:HD13	2.00	0.42
40:2i:100:GLY:O	40:2i:103:THR:HG22	2.20	0.42
47:2p:40:ASP:HB3	47:2p:48:TRP:HB2	2.02	0.42
53:2v:18:G:C2	55:2x:35:A:C2	3.08	0.42
1:1A:324:A:OP1	20:1Y:86:ARG:NH2	2.53	0.41
1:1A:787:U:H2'	1:1A:788:G:C8	2.55	0.41
1:1A:830:A:O2'	1:1A:832:G:OP1	2.36	0.41
1:1A:1096:A:H2'	1:1A:1097:G:O4'	2.19	0.41
1:1A:2359:C:H2'	1:1A:2360:U:C6	2.55	0.41
1:1A:2735:G:H2'	1:1A:2736:C:C6	2.54	0.41
11:1P:100:LEU:HD23	11:1P:100:LEU:HA	1.87	0.41
32:1a:114:U:H1'	32:1a:353:A:H1'	2.01	0.41
32:1a:160:A:H1'	32:1a:344:A:C5	2.55	0.41
32:1a:176:C:H2'	32:1a:177:C:H6	1.85	0.41
32:1a:254:G:O2'	48:1q:16:GLN:O	2.37	0.41
32:1a:324:G:N1	32:1a:327:A:OP2	2.53	0.41
32:1a:452:A:O2'	32:1a:453:A:OP2	2.30	0.41
32:1a:1186:G:H21	45:1n:61:TRP:C	2.27	0.41
32:1a:1343:G:H4'	40:1i:122:ALA:HB3	2.02	0.41
32:1a:1358:U:OP2	32:1a:1359:C:N4	2.46	0.41
40:1i:127:LYS:O	40:1i:128:ARG:HG2	2.20	0.41
51:1t:36:LEU:HD13	51:1t:58:LYS:HG3	2.01	0.41
1:2A:31:C:OP1	61:2A:3967:HOH:O	2.21	0.41
1:2A:471:A:H2'	1:2A:472:A:O4'	2.21	0.41
1:2A:912:C:P	12:2Q:8:LYS:HZ3	2.41	0.41
1:2A:1003:G:N2	1:2A:1153:C:C2	2.88	0.41
1:2A:1131:G:O6	1:2A:2040:C:H1'	2.20	0.41
1:2A:2379:G:O2'	14:2S:17:ARG:NH1	2.44	0.41
1:2A:2529:G:O6	31:29:31:LYS:NZ	2.53	0.41
1:2A:2809:A:H62	1:2A:2891:G:H2'	1.84	0.41
1:2A:2848:G:H8	15:2T:97:ALA:HB2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2F:133:ASN:N	5:2F:138:GLU:OE1	2.51	0.41
10:2O:119:PRO:HB2	15:2T:68:TYR:CE2	2.55	0.41
11:2P:82:GLY:HA2	11:2P:113:LYS:O	2.20	0.41
14:2S:10:ARG:O	14:2S:14:VAL:HG13	2.20	0.41
17:2V:24:LYS:HB3	17:2V:24:LYS:HE2	1.80	0.41
32:2a:62:U:H2'	32:2a:63:C:C6	2.55	0.41
32:2a:109:A:C6	32:2a:326:G:C6	3.08	0.41
32:2a:353:A:H5'	32:2a:353:A:H8	1.85	0.41
42:2k:52:GLY:N	42:2k:55:LYS:HE3	2.34	0.41
43:2l:10:LEU:HB3	48:2q:32:TYR:CE2	2.54	0.41
48:2q:57:VAL:HG12	48:2q:76:LEU:HA	2.01	0.41
56:C:8:LYS:HA	56:C:9:IAR:CB	2.50	0.41
1:1A:1129:U:H2'	1:1A:1131:A:OP2	2.20	0.41
1:1A:2122:G:H1	1:1A:2211:U:H3	1.68	0.41
1:1A:2308:U:OP2	14:1S:9:ARG:NH2	2.53	0.41
1:1A:2376:C:H2'	1:1A:2377:G:O4'	2.20	0.41
3:1D:38:LYS:NZ	3:1D:39:LYS:O	2.48	0.41
3:1D:145:VAL:HG12	3:1D:146:GLU:O	2.20	0.41
5:1F:102:PRO:HB2	5:1F:105:VAL:HG23	2.03	0.41
11:1P:71:VAL:HG22	11:1P:72:PRO:HA	2.03	0.41
14:1S:46:VAL:HG12	14:1S:48:LEU:HD12	2.02	0.41
18:1W:27:LYS:HA	18:1W:27:LYS:HD3	1.93	0.41
26:14:49:PHE:HB3	26:14:50:VAL:H	1.54	0.41
32:1a:256:U:H2'	32:1a:257:G:C8	2.55	0.41
32:1a:601:C:H2'	32:1a:602:A:C8	2.55	0.41
32:1a:624:C:H2'	32:1a:625:G:H8	1.84	0.41
35:1d:59:ARG:HD3	35:1d:59:ARG:HA	1.61	0.41
47:1p:14:ASN:OD1	47:1p:42:ARG:NH2	2.53	0.41
48:1q:67:LYS:O	48:1q:69:LYS:N	2.53	0.41
1:2A:251:A:C5	1:2A:252:G:H1'	2.55	0.41
1:2A:263:C:H2'	1:2A:264:C:O4'	2.20	0.41
1:2A:895:U:H2'	1:2A:897:C:H5	1.84	0.41
1:2A:1027:A:C2	1:2A:2488:A:H5'	2.55	0.41
1:2A:1996:C:H4'	1:2A:1997:G:OP1	2.21	0.41
2:2B:3:C:H1'	2:2B:119:G:N2	2.35	0.41
2:2B:32:C:H2'	2:2B:33:G:O4'	2.19	0.41
8:2I:86:THR:HG22	8:2I:122:GLU:OE1	2.21	0.41
10:2O:66:LYS:HA	10:2O:79:PHE:O	2.20	0.41
19:2X:9:LEU:HB2	19:2X:29:TRP:O	2.20	0.41
21:2Z:40:ASP:OD2	21:2Z:42:VAL:HG12	2.20	0.41
32:2a:165:C:H2'	32:2a:166:G:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:384:G:H2'	32:2a:385:C:C6	2.55	0.41
32:2a:1119:C:H2'	32:2a:1120:G:C8	2.55	0.41
36:2e:33:VAL:HG21	36:2e:109:ILE:HA	2.01	0.41
54:2y:37:6MZ:H3'	54:2y:38:A:C8	2.54	0.41
54:2y:52:G:C6	54:2y:53:G:C5	3.08	0.41
56:A:3:ALA:HA	56:A:9:IAR:HG2	2.02	0.41
1:1A:1101:G:H2'	1:1A:1102:G:O4'	2.21	0.41
1:1A:1219:A:H1'	1:1A:1220:U:C5'	2.50	0.41
1:1A:2556:G:H1'	1:1A:2658:C:H4'	2.03	0.41
1:1A:2650:G:P	4:1E:82:ARG:HH12	2.43	0.41
5:1F:89:VAL:HG12	5:1F:90:PHE:CD2	2.56	0.41
12:1Q:7:MET:HE1	12:1Q:73:PRO:HD3	2.03	0.41
13:1R:24:GLN:HE22	13:1R:36:THR:CG2	2.34	0.41
13:1R:54:LEU:HD12	13:1R:54:LEU:HA	1.92	0.41
26:14:41:PRO:HA	26:14:47:GLN:HB3	2.02	0.41
27:15:35:GLU:HG3	27:15:51:TYR:CG	2.55	0.41
30:18:4:MET:HE2	30:18:4:MET:HB3	1.91	0.41
32:1a:1002:G:C8	32:1a:1003:G:H1'	2.56	0.41
32:1a:1258:G:H2'	32:1a:1259:C:C6	2.55	0.41
38:1g:8:GLU:OE1	38:1g:8:GLU:N	2.38	0.41
40:1i:5:TYR:OH	40:1i:16:ARG:HG2	2.20	0.41
40:1i:55:ALA:HA	40:1i:58:HIS:HD2	1.86	0.41
42:1k:31:THR:HG22	42:1k:42:TRP:HB2	2.02	0.41
43:1l:113:ARG:HH21	43:1l:116:SER:HB2	1.85	0.41
54:1w:26:A:H2'	54:1w:27:C:C6	2.55	0.41
1:2A:196:A:N3	1:2A:196:A:H2'	2.35	0.41
1:2A:1709:U:H2'	1:2A:1710:C:C6	2.55	0.41
1:2A:2131:G:H22	1:2A:2158:A:N6	2.19	0.41
1:2A:2205:C:H1'	1:2A:2220:G:N2	2.34	0.41
1:2A:2291:U:H2'	1:2A:2292:C:C6	2.55	0.41
2:2B:105:A:OP1	21:2Z:72:ARG:NH1	2.54	0.41
5:2F:40:GLN:NE2	5:2F:182:ASN:HB2	2.34	0.41
12:2Q:65:PHE:HB2	12:2Q:105:GLU:HB2	2.01	0.41
32:2a:442:C:H42	32:2a:492:G:H1	1.67	0.41
32:2a:967:5MC:H2'	32:2a:968:A:C8	2.55	0.41
32:2a:1040:U:C2	32:2a:1041:A:C8	3.08	0.41
32:2a:1149:C:O2'	32:2a:1280:A:N1	2.32	0.41
32:2a:1414:U:H3	32:2a:1486:G:H1	1.68	0.41
33:2b:168:THR:OG1	33:2b:192:SER:HA	2.20	0.41
33:2b:178:ARG:HE	33:2b:178:ARG:HB3	1.62	0.41
39:2h:4:ASP:HB3	39:2h:7:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:2h:41:ARG:NH2	39:2h:123:GLU:OE2	2.53	0.41
45:2n:14:PRO:HG2	45:2n:16:PHE:O	2.20	0.41
50:2s:70:LYS:HB2	50:2s:73:GLU:HG3	2.01	0.41
1:1A:2473:C:H2'	1:1A:2474:U:C6	2.55	0.41
1:1A:2486:C:OP1	61:1A:4270:HOH:O	2.22	0.41
4:1E:119:ARG:HG2	4:1E:120:TRP:CD1	2.55	0.41
18:1W:7:ALA:HB2	18:1W:50:VAL:HG22	2.02	0.41
21:1Z:98:MET:O	21:1Z:125:LEU:HD12	2.21	0.41
32:1a:433:C:H2'	32:1a:434:U:C6	2.55	0.41
32:1a:790:A:N1	32:1a:1497:G:H5''	2.35	0.41
32:1a:864:A:H2'	32:1a:865:A:C8	2.55	0.41
32:1a:921:U:O2	36:1e:19:MET:HB2	2.20	0.41
32:1a:953:G:H2'	32:1a:954:G:O4'	2.20	0.41
32:1a:1111:A:N1	34:1c:177:THR:OG1	2.42	0.41
39:1h:21:LYS:O	39:1h:65:TYR:OH	2.29	0.41
42:1k:20:TYR:CZ	42:1k:83:ILE:HD12	2.56	0.41
54:1y:59:U:H3'	54:1y:60:C:H6	1.85	0.41
1:2A:118:A:N3	1:2A:178:G:H1'	2.35	0.41
1:2A:197:A:N6	1:2A:2430:A:H2'	2.35	0.41
1:2A:521:G:H2'	1:2A:522:G:C8	2.54	0.41
1:2A:637:A:H2'	11:2P:117:GLU:OE1	2.21	0.41
1:2A:911:A:C5	12:2Q:9:TYR:CD2	3.09	0.41
1:2A:2419:U:H2'	1:2A:2420:C:C6	2.56	0.41
18:2W:6:ILE:HG22	18:2W:8:ARG:HG3	2.03	0.41
21:2Z:99:TYR:HA	21:2Z:124:ILE:O	2.21	0.41
32:2a:269:C:H2'	32:2a:270:A:H8	1.85	0.41
32:2a:359:U:H2'	32:2a:360:A:H8	1.84	0.41
32:2a:657:G:H1'	46:2o:28:GLN:HE21	1.84	0.41
32:2a:1122:U:C4	32:2a:1123:A:N7	2.88	0.41
32:2a:1350:A:C2	32:2a:1351:U:C2	3.09	0.41
32:2a:1431:C:H2'	32:2a:1432:G:O4'	2.20	0.41
33:2b:80:ILE:HG21	33:2b:211:ILE:HG21	2.03	0.41
35:2d:57:ARG:HB3	35:2d:206:PHE:HB2	2.03	0.41
41:2j:11:PHE:CE1	41:2j:67:THR:HG22	2.52	0.41
42:2k:45:GLY:O	42:2k:50:TYR:HB2	2.20	0.41
54:2y:64:U:O2	54:2y:64:U:H2'	2.21	0.41
1:1A:212:A:N1	1:1A:434:G:O2'	2.50	0.41
1:1A:232:U:OP1	30:18:6:THR:OG1	2.25	0.41
1:1A:699:C:H2'	1:1A:700:A:O4'	2.21	0.41
1:1A:858:U:H2'	11:1P:21:ARG:HA	2.03	0.41
1:1A:886:U:H2'	1:1A:887:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1052:C:C2	1:1A:1183:G:N2	2.88	0.41
1:1A:1224:C:H2'	1:1A:1225:C:H6	1.85	0.41
1:1A:1454:C:C2	1:1A:1641:G:N2	2.89	0.41
1:1A:1827:U:H2'	1:1A:1828:C:H6	1.85	0.41
2:1B:12:C:OP2	2:1B:12:C:H6	2.04	0.41
5:1F:150:GLY:HA2	5:1F:172:TRP:CD2	2.56	0.41
5:1F:164:ARG:O	5:1F:168:ARG:HB2	2.19	0.41
5:1F:192:LEU:HD13	5:1F:194:MET:HE2	2.03	0.41
10:1O:115:VAL:HG13	10:1O:121:VAL:HG21	2.02	0.41
16:1U:46:ALA:O	16:1U:50:ARG:HG2	2.21	0.41
20:1Y:20:TYR:CE2	20:1Y:43:ASN:HA	2.55	0.41
21:1Z:65:GLN:NE2	21:1Z:67:LEU:HD21	2.36	0.41
32:1a:222:U:H2'	32:1a:223:U:H6	1.84	0.41
32:1a:1037:C:H2'	32:1a:1038:C:H6	1.85	0.41
32:1a:1445:C:H2'	32:1a:1446:U:O4'	2.20	0.41
36:1e:85:GLY:C	36:1e:87:SER:N	2.78	0.41
1:2A:530:G:C5	1:2A:2022:U:H5''	2.54	0.41
1:2A:647:G:H8	1:2A:647:G:O5'	2.03	0.41
1:2A:1014:U:H2'	1:2A:1015:G:C8	2.55	0.41
1:2A:1427:A:H4'	1:2A:1428:C:O5'	2.21	0.41
1:2A:2377:A:H2'	1:2A:2378:A:C8	2.56	0.41
1:2A:2745:C:C4	1:2A:2746:U:C4	3.09	0.41
6:2G:72:ARG:NH1	6:2G:87:PRO:HG3	2.35	0.41
13:2R:70:LEU:O	13:2R:72:ASP:N	2.54	0.41
30:28:23:VAL:CG1	30:28:47:LYS:HD3	2.49	0.41
32:2a:523:A:H61	43:2l:92:OTD:CG	2.32	0.41
32:2a:731:G:OP1	32:2a:766:A:H1'	2.21	0.41
32:2a:794:A:H4'	32:2a:1521:G:O2'	2.21	0.41
32:2a:1318:A:O2'	50:2s:37:ARG:HB2	2.19	0.41
33:2b:8:LYS:HE2	33:2b:8:LYS:HB2	1.87	0.41
1:1A:2603:C:H2'	1:1A:2604:G:C8	2.55	0.41
5:1F:181:LEU:HB3	5:1F:205:ARG:NH2	2.36	0.41
15:1T:65:LYS:HE3	15:1T:67:SER:HB2	2.03	0.41
32:1a:407:G:H5''	35:1d:115:ARG:CG	2.47	0.41
32:1a:826:C:H2'	32:1a:827:U:C6	2.55	0.41
32:1a:1218:C:OP2	45:1n:9:LYS:NZ	2.47	0.41
32:1a:1286:A:C8	32:1a:1287:A:H4'	2.55	0.41
33:1b:178:ARG:HE	33:1b:178:ARG:HB3	1.67	0.41
1:2A:392:C:H5''	1:2A:409:C:H5''	2.02	0.41
1:2A:615:G:O2'	5:2F:205:ARG:NH1	2.54	0.41
1:2A:784:A:C8	1:2A:792:G:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:848:G:C4	1:2A:933:A:H8	2.39	0.41
1:2A:1283:G:N2	1:2A:1285:G:H3'	2.35	0.41
1:2A:2345:G:N3	1:2A:2381:C:H2'	2.36	0.41
10:2O:87:ILE:HD12	10:2O:91:LEU:HA	2.02	0.41
14:2S:92:TYR:HB3	14:2S:98:VAL:HG21	2.03	0.41
17:2V:2:PHE:CZ	17:2V:41:GLY:HA3	2.56	0.41
19:2X:6:ASP:OD1	24:22:29:LYS:HE3	2.21	0.41
30:28:23:VAL:HG13	30:28:47:LYS:HB3	2.03	0.41
32:2a:122:G:H2'	32:2a:123:C:O4'	2.20	0.41
32:2a:296:U:O2'	32:2a:556:C:O2	2.32	0.41
32:2a:403:C:OP2	35:2d:74:GLN:NE2	2.53	0.41
32:2a:1152:A:H2'	32:2a:1153:C:C6	2.56	0.41
33:2b:97:TRP:HH2	33:2b:176:GLU:CD	2.29	0.41
34:2c:121:ALA:HB2	34:2c:198:VAL:HG21	2.01	0.41
35:2d:57:ARG:NH2	36:2e:107:ARG:HD3	2.35	0.41
35:2d:140:VAL:HG11	35:2d:146:ILE:HD11	2.02	0.41
36:2e:12:LEU:HD22	36:2e:128:PRO:HB2	2.03	0.41
39:2h:51:VAL:HG12	39:2h:52:ASP:N	2.34	0.41
1:1A:549:U:H2'	1:1A:550:U:C6	2.55	0.41
1:1A:953:U:O2'	12:1Q:101:ARG:NH2	2.54	0.41
1:1A:1128:U:C4	1:1A:1132:A:N1	2.83	0.41
1:1A:1640:G:H2'	1:1A:1641:G:O4'	2.21	0.41
1:1A:1897:C:H2'	1:1A:1898:A:O4'	2.20	0.41
1:1A:1898:A:H2'	1:1A:1899:A:C8	2.56	0.41
1:1A:2028:C:OP1	61:1A:4267:HOH:O	2.22	0.41
4:1E:59:VAL:HG21	4:1E:74:PRO:HB3	2.02	0.41
6:1G:56:ALA:O	6:1G:59:GLU:HG2	2.19	0.41
14:1S:36:TYR:CD1	14:1S:52:SER:HB3	2.55	0.41
18:1W:19:LEU:HB3	27:15:25:LEU:HD11	2.01	0.41
32:1a:542:G:H5'	35:1d:41:GLY:HA3	2.03	0.41
32:1a:841:U:OP2	32:1a:841:U:H6	2.04	0.41
39:1h:28:ALA:HB3	39:1h:57:PRO:HB2	2.01	0.41
47:1p:17:TYR:HE2	47:1p:41:PRO:HG3	1.85	0.41
1:2A:857:C:OP1	22:20:69:PHE:HD2	2.04	0.41
1:2A:2671:A:H2'	1:2A:2672:G:O4'	2.21	0.41
1:2A:2802:G:H2'	1:2A:2803:C:O4'	2.20	0.41
1:2A:2848:G:C8	15:2T:97:ALA:HB2	2.56	0.41
3:2D:73:VAL:HG13	3:2D:120:GLY:HA3	2.01	0.41
11:2P:63:PRO:HD3	30:28:27:THR:HG22	2.02	0.41
11:2P:97:PRO:HD3	11:2P:126:VAL:O	2.21	0.41
13:2R:38:VAL:HB	13:2R:39:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2Y:13:VAL:HG12	20:2Y:74:PRO:HA	2.03	0.41
21:2Z:6:LYS:HE3	21:2Z:8:TYR:HE2	1.85	0.41
32:2a:174:C:H2'	32:2a:175:C:H6	1.86	0.41
32:2a:512:U:H2'	32:2a:513:C:H6	1.85	0.41
32:2a:1326:C:H5''	52:2u:18:TYR:O	2.21	0.41
37:2f:60:PHE:CE2	49:2r:78:LEU:HD21	2.50	0.41
43:2l:27:LEU:HD13	43:2l:98:TYR:CE1	2.56	0.41
43:2l:54:LYS:N	43:2l:54:LYS:HD2	2.36	0.41
44:2m:25:ILE:HD11	44:2m:66:LEU:HD13	2.01	0.41
51:2t:53:LEU:HB2	51:2t:100:ILE:HD11	2.03	0.41
1:1A:1841:A:H2'	1:1A:1842:G:O4'	2.20	0.41
1:1A:2114:U:H4'	1:1A:2115:G:O5'	2.20	0.41
1:1A:2405:A:H5''	11:1P:63:PRO:HB3	2.03	0.41
1:1A:2518:U:O2'	54:1w:76:A:H4'	2.19	0.41
8:1I:48:GLU:O	8:1I:52:ARG:HG2	2.21	0.41
16:1U:76:TYR:CE2	16:1U:80:ILE:HG13	2.56	0.41
21:1Z:17:ALA:HA	21:1Z:20:ARG:HH21	1.86	0.41
21:1Z:93:ASP:CB	21:1Z:131:ARG:HH12	2.34	0.41
32:1a:189(B):C:H2'	32:1a:189(C):C:C6	2.55	0.41
32:1a:279:A:C5	48:1q:98:LEU:HD23	2.56	0.41
32:1a:769:G:H4'	32:1a:1513:A:H4'	2.01	0.41
32:1a:1151:A:O2'	32:1a:1152:A:H8	2.04	0.41
41:1j:9:ARG:HG2	41:1j:69:ASN:OD1	2.19	0.41
42:1k:48:ILE:HD13	42:1k:63:LEU:HB2	2.01	0.41
48:1q:67:LYS:HA	48:1q:70:ARG:HH12	1.85	0.41
1:2A:234:C:H2'	1:2A:235:U:C6	2.55	0.41
13:2R:33:ARG:HA	13:2R:114:VAL:O	2.21	0.41
15:2T:41:ARG:HD2	32:2a:345:C:OP1	2.21	0.41
20:2Y:9:LYS:HA	20:2Y:10:GLY:HA2	1.60	0.41
21:2Z:31:ARG:HD3	21:2Z:94:GLU:OE1	2.20	0.41
23:21:67:ILE:N	23:21:68:PRO:HD2	2.35	0.41
32:2a:120:A:C6	32:2a:122:G:C2	3.08	0.41
32:2a:544:G:OP2	35:2d:66:ARG:NH2	2.54	0.41
32:2a:618:C:N4	32:2a:621:A:N7	2.68	0.41
32:2a:939:G:H2'	32:2a:940:C:C6	2.56	0.41
32:2a:1027:C:N4	32:2a:1036:G:N7	2.69	0.41
32:2a:1082:G:H2'	32:2a:1083:U:O4'	2.21	0.41
32:2a:1118:C:N3	32:2a:1156:G:N2	2.69	0.41
32:2a:1129:C:H1'	32:2a:1146:A:N6	2.35	0.41
32:2a:1291:G:H2'	32:2a:1292:U:C6	2.56	0.41
42:2k:92:GLU:HB3	42:2k:96:ARG:HH12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:101:GLN:OE1	44:2m:101:GLN:N	2.53	0.41
54:2y:70:C:H2'	54:2y:71:C:H5'	2.03	0.41
1:1A:624:C:O2'	1:1A:628:C:OP1	2.32	0.41
1:1A:1002:A:N1	1:1A:2470:G:H4'	2.36	0.41
1:1A:1541:A:C6	1:1A:1542:A:C6	3.09	0.41
1:1A:1688:A:H2'	1:1A:1689:G:O4'	2.21	0.41
1:1A:1712:A:H2'	1:1A:1713:G:O4'	2.21	0.41
1:1A:2178:G:H2'	1:1A:2179:G:C2	2.55	0.41
4:1E:2:LYS:H	4:1E:2:LYS:HG2	1.65	0.41
4:1E:47:VAL:HG11	4:1E:86:PRO:HD2	2.02	0.41
4:1E:174:ASP:OD1	4:1E:175:VAL:N	2.54	0.41
6:1G:106:LEU:HD12	6:1G:110:ALA:HB3	2.02	0.41
10:1O:17:ARG:HE	10:1O:47:ILE:CG2	2.34	0.41
16:1U:8:VAL:HG23	16:1U:11:ARG:HH21	1.86	0.41
22:10:10:THR:HG22	22:10:12:ASN:N	2.19	0.41
27:15:16:ARG:HG3	27:15:17:ASP:N	2.36	0.41
32:1a:44:G:C2	32:1a:45:U:H1'	2.56	0.41
32:1a:67:C:H2'	32:1a:68:G:H8	1.85	0.41
32:1a:300:A:H1'	32:1a:565:U:O2	2.21	0.41
32:1a:381:C:H2'	32:1a:382:A:O4'	2.21	0.41
32:1a:411:A:OP2	35:1d:30:LYS:HD3	2.21	0.41
32:1a:1202:G:O2'	45:1n:29:ARG:HG3	2.20	0.41
32:1a:1346:A:N1	32:1a:1374:A:H5''	2.36	0.41
32:1a:1368:G:OP1	40:1i:111:ARG:NH2	2.54	0.41
33:1b:102:LEU:HB3	33:1b:180:LEU:HD12	2.02	0.41
34:1c:150:LYS:HE3	34:1c:152:ILE:HD11	2.02	0.41
51:1t:26:ASN:OD1	51:1t:71:THR:OG1	2.27	0.41
54:1y:59:U:H3'	54:1y:60:C:C6	2.56	0.41
1:2A:7:G:H5''	9:2N:121:LYS:HE3	2.02	0.41
1:2A:27:G:N2	1:2A:512:G:H1'	2.36	0.41
1:2A:491:G:H2'	1:2A:492:A:C8	2.56	0.41
1:2A:608:A:H2'	1:2A:609:A:C8	2.56	0.41
1:2A:2110:G:N2	1:2A:2120:G:H1'	2.36	0.41
1:2A:2141:G:H2'	1:2A:2142:C:O4'	2.21	0.41
1:2A:2146:C:H4'	1:2A:2147:G:O5'	2.21	0.41
1:2A:2167:U:C5'	1:2A:2168:G:H21	2.33	0.41
1:2A:2250:G:OP1	12:2Q:85:LYS:NZ	2.48	0.41
1:2A:2375:G:O2'	1:2A:2377:A:N7	2.37	0.41
2:2B:2:C:H2'	2:2B:3:C:C6	2.56	0.41
6:2G:43:LEU:HB3	6:2G:44:GLY:H	1.60	0.41
6:2G:125:PHE:HB3	6:2G:166:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2I:78:THR:O	8:2I:104:GLN:NE2	2.52	0.41
15:2T:94:ALA:HB1	15:2T:99:LEU:HD21	2.02	0.41
19:2X:40:LYS:HG3	19:2X:51:VAL:HB	2.01	0.41
19:2X:43:VAL:HG11	19:2X:81:VAL:HG11	2.03	0.41
26:24:55:ARG:O	26:24:56:VAL:HG13	2.21	0.41
32:2a:1142:G:H3'	32:2a:1143:G:C8	2.53	0.41
38:2g:26:PHE:O	38:2g:30:ILE:HG13	2.21	0.41
1:1A:1202:A:OP1	16:1U:55:ARG:NH1	2.48	0.41
1:1A:1683:C:H2'	1:1A:1684:A:C8	2.56	0.41
1:1A:2161:C:H2'	1:1A:2162:C:O4'	2.21	0.41
1:1A:2672:A:N7	7:1H:175:LYS:NZ	2.64	0.41
1:1A:2892:A:OP1	13:1R:96:ARG:NH1	2.48	0.41
19:1X:44:GLU:HG2	19:1X:49:VAL:O	2.21	0.41
32:1a:1002:G:H3'	32:1a:1003:G:C4'	2.50	0.41
32:1a:1438:G:H2'	32:1a:1439:C:C6	2.56	0.41
32:1a:1443:G:H2'	32:1a:1444:C:C6	2.56	0.41
35:1d:20:TYR:CD1	35:1d:26:CYS:HB3	2.56	0.41
37:1f:78:GLU:O	37:1f:81:ILE:HG22	2.21	0.41
40:1i:11:LYS:C	40:1i:13:ALA:H	2.29	0.41
47:1p:40:ASP:O	47:1p:48:TRP:HB2	2.21	0.41
54:1w:75:C:H2'	54:1w:76:A:C8	2.56	0.41
1:2A:658:C:H2'	1:2A:659:C:C6	2.55	0.41
1:2A:901:A:H2'	1:2A:902:C:O4'	2.21	0.41
1:2A:1311:G:H2'	29:27:47:ARG:HH22	1.86	0.41
1:2A:2140:C:N3	1:2A:2151:G:N2	2.51	0.41
1:2A:2169:A:H2'	1:2A:2170:A:C8	2.56	0.41
1:2A:2277:G:OP2	22:20:10:THR:HG21	2.21	0.41
1:2A:2556:C:H2'	1:2A:2557:G:O4'	2.21	0.41
10:2O:63:VAL:HG12	10:2O:106:LEU:HD11	2.03	0.41
15:2T:113:LYS:O	15:2T:114:LEU:HD23	2.21	0.41
21:2Z:5:LEU:HD13	21:2Z:47:VAL:HG21	2.02	0.41
23:21:50:ARG:HD2	23:21:57:GLU:OE2	2.21	0.41
26:24:14:ILE:HB	26:24:22:ILE:HB	2.03	0.41
26:24:57:GLU:CB	26:24:58:ARG:HD2	2.50	0.41
30:28:26:LYS:HB2	30:28:44:LYS:O	2.21	0.41
30:28:63:PRO:HG2	30:28:64:TYR:CE2	2.55	0.41
32:2a:107:G:C2	32:2a:108:G:H1'	2.57	0.41
32:2a:671:G:H1	32:2a:735:C:H42	1.68	0.41
32:2a:1006:C:C4	32:2a:1007:C:C4	3.09	0.41
32:2a:1241:G:H2'	32:2a:1242:C:C6	2.56	0.41
36:2e:18:ARG:HH11	36:2e:27:ARG:HH12	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2m:65:LYS:O	44:2m:70:LEU:HD12	2.21	0.41
48:2q:84:LEU:HD23	48:2q:87:LYS:NZ	2.27	0.41
54:2y:36:C:O5'	54:2y:36:C:H6	2.04	0.41
1:1A:196:A:H2'	1:1A:197:C:O4'	2.20	0.40
1:1A:329:U:H2'	1:1A:330:U:C6	2.56	0.40
1:1A:1470:G:H2'	1:1A:1471:G:O4'	2.21	0.40
1:1A:1739:U:O2'	1:1A:1740:U:H2'	2.21	0.40
1:1A:2801:C:OP1	4:1E:61:ARG:NH2	2.54	0.40
9:1N:42:TRP:CH2	9:1N:44:PRO:HB3	2.56	0.40
15:1T:91:ARG:HB2	15:1T:121:ILE:HG13	2.03	0.40
32:1a:1084:G:C5	32:1a:1085:U:C4	3.09	0.40
32:1a:1095:U:H5''	32:1a:1109:C:O2	2.21	0.40
32:1a:1236:A:H4'	32:1a:1304:G:H4'	2.03	0.40
33:1b:28:PHE:CD2	33:1b:190:THR:HA	2.56	0.40
49:1r:53:ARG:HH21	49:1r:59:SER:HA	1.86	0.40
50:1s:80:TYR:CZ	50:1s:82:GLY:HA2	2.56	0.40
54:1w:29:U:H3	54:1w:41:A:H61	1.68	0.40
1:2A:55:G:O2'	1:2A:127:A:N1	2.39	0.40
1:2A:90:U:H1'	1:2A:92:A:C8	2.57	0.40
1:2A:414:C:H2'	1:2A:415:A:C8	2.56	0.40
1:2A:839:U:H2'	1:2A:840:C:H6	1.85	0.40
1:2A:2143:C:N4	1:2A:2148:G:H1	2.17	0.40
1:2A:2695:C:H2'	1:2A:2696:U:C6	2.56	0.40
5:2F:107:LYS:HG3	5:2F:206:ILE:HA	2.03	0.40
11:2P:135:LEU:HD23	11:2P:135:LEU:HA	1.91	0.40
32:2a:601:C:H2'	32:2a:602:A:H8	1.86	0.40
32:2a:688:G:H5'	42:2k:46:GLY:C	2.46	0.40
32:2a:1023:G:C6	32:2a:1024:G:H1'	2.56	0.40
32:2a:1206:G:O2'	34:2c:193:TYR:HA	2.20	0.40
32:2a:1327:C:H2'	32:2a:1328:C:H6	1.85	0.40
43:2l:97:ARG:O	61:2l:5001:HOH:O	2.22	0.40
1:1A:36:G:H4'	1:1A:477:C:C2	2.57	0.40
1:1A:348:A:H2'	1:1A:349:G:O4'	2.21	0.40
1:1A:629:U:H4'	1:1A:705:C:H4'	2.01	0.40
1:1A:1631:C:O2'	1:1A:1632:A:H5'	2.21	0.40
3:1D:83:GLU:OE1	3:1D:104:TYR:OH	2.29	0.40
5:1F:64:ILE:HD11	5:1F:75:HIS:HB2	2.04	0.40
7:1H:41:MET:HE3	7:1H:64:LEU:HB2	2.04	0.40
7:1H:46:GLU:OE2	7:1H:51:ARG:HD3	2.22	0.40
8:1I:109:ILE:HD12	8:1I:130:TYR:CE2	2.56	0.40
31:19:32:HIS:O	31:19:34:GLN:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:826:C:H4'	39:1h:12:ARG:HG3	2.01	0.40
32:1a:1376:U:H2'	32:1a:1377:A:H8	1.85	0.40
33:1b:51:LEU:HD21	33:1b:201:ILE:HG23	2.03	0.40
35:1d:176:LEU:HD12	35:1d:182:LYS:O	2.21	0.40
36:1e:131:ILE:HD13	36:1e:131:ILE:HA	1.93	0.40
1:2A:631:A:H2'	1:2A:632:A:O4'	2.21	0.40
1:2A:828:U:H4'	1:2A:831:G:N1	2.37	0.40
1:2A:918:A:H5''	2:2B:98:G:O2'	2.21	0.40
1:2A:973:A:H8	1:2A:973:A:OP1	2.03	0.40
1:2A:1778:U:H2'	1:2A:1784:A:N6	2.36	0.40
1:2A:2167:U:H2'	1:2A:2168:G:N3	2.37	0.40
1:2A:2331:G:O2'	1:2A:2336:A:N1	2.42	0.40
1:2A:2747:G:O6	1:2A:2755:C:H5''	2.21	0.40
3:2D:26:LYS:HB3	3:2D:83:GLU:HG2	2.03	0.40
5:2F:185:ASP:OD1	5:2F:188:ARG:NH1	2.51	0.40
6:2G:107:LEU:HD21	6:2G:178:PHE:CE1	2.56	0.40
7:2H:80:SER:OG	7:2H:81:GLU:N	2.54	0.40
7:2H:105:LEU:HB2	7:2H:113:VAL:HB	2.03	0.40
8:2I:38:LEU:C	8:2I:40:THR:H	2.29	0.40
11:2P:62:LEU:HD11	30:28:50:LEU:HD11	2.04	0.40
13:2R:70:LEU:C	13:2R:72:ASP:H	2.29	0.40
32:2a:685:G:C2	32:2a:686:U:C4	3.10	0.40
32:2a:1002:G:C6	32:2a:1003:G:H8	2.39	0.40
32:2a:1176:A:H2'	32:2a:1177:G:O4'	2.21	0.40
32:2a:1381:U:H1'	38:2g:79:ARG:HD3	2.04	0.40
42:2k:48:ILE:C	42:2k:50:TYR:H	2.24	0.40
44:2m:11:ARG:HA	44:2m:45:VAL:HB	2.03	0.40
49:2r:33:ASP:OD2	49:2r:36:ASN:HB2	2.21	0.40
51:2t:36:LEU:HD12	51:2t:62:LEU:HD12	2.03	0.40
54:2w:62:C:H2'	54:2w:63:G:H8	1.86	0.40
54:2y:19:G:N3	54:2y:57:G:C6	2.89	0.40
1:1A:502:G:H4'	1:1A:527:A:N1	2.36	0.40
1:1A:1108:G:N1	1:1A:1109:G:C5	2.89	0.40
1:1A:1639:G:H2'	1:1A:1640:G:C8	2.57	0.40
1:1A:2418:U:H2'	1:1A:2418:U:OP2	2.22	0.40
7:1H:113:VAL:HG11	7:1H:151:ILE:HD13	2.04	0.40
13:1R:97:VAL:HG22	13:1R:114:VAL:HG13	2.03	0.40
23:11:3:LYS:HB2	23:11:61:ARG:HH12	1.86	0.40
32:1a:108:G:N1	51:1t:15:ARG:HG2	2.36	0.40
32:1a:119:A:H4'	32:1a:120:A:C8	2.56	0.40
32:1a:194:C:H2'	32:1a:195:A:H5''	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:345:C:H5'	32:1a:346:G:C5	2.56	0.40
32:1a:445:G:C2	32:1a:446:G:C4	3.08	0.40
32:1a:474:G:H3'	32:1a:475:G:H8	1.86	0.40
32:1a:858:G:O6	32:1a:869:G:H3'	2.22	0.40
32:1a:976:G:OP1	45:1n:32:SER:N	2.47	0.40
32:1a:1333:A:H2'	32:1a:1334:G:O4'	2.22	0.40
38:1g:111:ARG:HB3	38:1g:113:GLU:OE1	2.21	0.40
40:1i:26:VAL:HG22	40:1i:61:ALA:HB3	2.03	0.40
1:2A:191:A:H2'	1:2A:192:C:C6	2.56	0.40
1:2A:509:C:OP1	61:2A:3969:HOH:O	2.22	0.40
1:2A:538:G:H2'	1:2A:539:G:H8	1.86	0.40
1:2A:878:A:H3'	1:2A:879:G:H5''	2.03	0.40
1:2A:2722:G:H5'	13:2R:4:LEU:HD12	2.02	0.40
5:2F:183:VAL:O	5:2F:187:VAL:HG23	2.20	0.40
8:2I:65:ALA:HB1	8:2I:136:VAL:HG11	2.03	0.40
9:2N:30:ILE:HG23	9:2N:52:VAL:HG11	2.02	0.40
16:2U:92:ARG:HA	16:2U:95:LEU:HB2	2.04	0.40
17:2V:52:VAL:HG23	17:2V:55:ALA:HB3	2.04	0.40
25:23:4:LEU:N	25:23:37:LEU:O	2.50	0.40
32:2a:18:C:H4'	32:2a:1078:U:O2	2.22	0.40
32:2a:736:C:H5''	49:2r:72:ARG:HE	1.85	0.40
32:2a:1166:G:H1'	32:2a:1171:G:N2	2.36	0.40
32:2a:1289:A:N1	32:2a:1371:G:O2'	2.50	0.40
33:2b:179:LYS:HA	39:2h:72:PRO:HG3	2.03	0.40
34:2c:37:GLN:NE2	45:2n:52:GLN:OE1	2.40	0.40
34:2c:179:ARG:NH1	34:2c:206:GLU:OE1	2.52	0.40
35:2d:38:TYR:CE1	35:2d:45:GLN:HG3	2.56	0.40
38:2g:69:VAL:O	38:2g:71:PRO:HD3	2.21	0.40
44:2m:108:ARG:HA	44:2m:108:ARG:HD3	1.85	0.40
1:1A:364:A:H2'	1:1A:365:G:O4'	2.22	0.40
1:1A:876:A:N7	1:1A:2260:C:H5'	2.36	0.40
1:1A:1125:C:N4	1:1A:1134:A:C4	2.90	0.40
1:1A:2087:C:H2'	1:1A:2088:C:C6	2.56	0.40
1:1A:2205:C:O2'	1:1A:2206:G:OP1	2.35	0.40
1:1A:2556:G:H2'	1:1A:2557:G:O4'	2.20	0.40
1:1A:2638:C:H2'	1:1A:2639:G:O4'	2.22	0.40
1:1A:2649:U:H5''	4:1E:82:ARG:NH1	2.36	0.40
1:1A:2879:G:H2'	1:1A:2880:C:O4'	2.21	0.40
2:1B:60:C:C2	2:1B:61:G:C8	3.09	0.40
8:1I:47:LEU:HD23	8:1I:47:LEU:HA	1.76	0.40
11:1P:1:MET:HE3	11:1P:1:MET:HB2	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1U:16:LYS:HE2	16:1U:16:LYS:HB3	1.81	0.40
20:1Y:38:ILE:HD11	20:1Y:66:PRO:HG3	2.02	0.40
21:1Z:93:ASP:OD1	21:1Z:93:ASP:N	2.55	0.40
24:12:51:ARG:O	24:12:55:ARG:HG2	2.21	0.40
32:1a:160:A:H2'	32:1a:161:A:O4'	2.22	0.40
32:1a:1206:G:C6	32:1a:1207:2MG:C5	3.09	0.40
34:1c:12:LEU:HD23	34:1c:12:LEU:HA	1.94	0.40
36:1e:78:HIS:HE1	36:1e:143:ARG:N	1.99	0.40
54:1w:46:7MG:H3'	54:1w:47:U:H5''	2.03	0.40
54:1y:44:G:C5	54:1y:45:G:C5	3.10	0.40
54:1y:49:G:H2'	54:1y:50:G:C8	2.56	0.40
1:2A:118:A:H1'	1:2A:178:G:O4'	2.21	0.40
1:2A:479:A:N3	1:2A:481:G:H5''	2.36	0.40
1:2A:945:A:C4	1:2A:2448:A:C2	3.09	0.40
1:2A:1839:G:C8	1:2A:1927:A:H1'	2.57	0.40
1:2A:2336:A:H61	22:20:43:THR:CG2	2.34	0.40
11:2P:128:HIS:NE2	11:2P:148:LEU:HD11	2.36	0.40
12:2Q:38:GLU:OE2	12:2Q:128:LYS:N	2.52	0.40
16:2U:58:ARG:HA	16:2U:61:TRP:CE3	2.56	0.40
32:2a:171:A:H2'	32:2a:172:A:C8	2.57	0.40
32:2a:1264:C:C4	32:2a:1272:G:O6	2.75	0.40
33:2b:28:PHE:HD1	33:2b:194:PRO:HG3	1.87	0.40
33:2b:119:GLU:CG	33:2b:153:ARG:HH12	2.29	0.40
41:2j:46:ARG:HA	41:2j:64:GLU:HA	2.04	0.40
48:2q:51:TYR:CD1	48:2q:57:VAL:HG11	2.57	0.40
1:1A:509:A:O2'	20:1Y:49:VAL:O	2.33	0.40
1:1A:936:C:O2'	1:1A:937:A:O4'	2.39	0.40
1:1A:1101:G:H3'	1:1A:1102:G:H8	1.86	0.40
1:1A:1685:C:P	61:1A:4525:HOH:O	2.80	0.40
1:1A:2803:A:C5'	1:1A:2902:G:H21	2.35	0.40
2:1B:33:G:C2	2:1B:50:G:C2	3.09	0.40
5:1F:135:LYS:HB2	5:1F:138:GLU:HG3	2.04	0.40
7:1H:3:ARG:NH2	7:1H:65:HIS:HB3	2.36	0.40
12:1Q:2:LEU:HD22	12:1Q:69:PHE:CE1	2.57	0.40
14:1S:14:VAL:O	14:1S:18:ILE:HG12	2.21	0.40
21:1Z:158:PRO:HA	21:1Z:159:PRO:HD3	1.94	0.40
32:1a:135:C:H2'	32:1a:136:C:H5'	2.02	0.40
32:1a:337:C:H2'	32:1a:338:A:C8	2.56	0.40
32:1a:722:A:N6	32:1a:724:G:C2	2.89	0.40
32:1a:1401:G:C2	32:1a:1402:4OC:H1'	2.57	0.40
40:1i:89:ASN:HB3	40:1i:92:TYR:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:1i:105:ASP:HB2	40:1i:107:ARG:HG3	2.04	0.40
42:1k:33:THR:HG22	42:1k:39:PRO:HA	2.03	0.40
48:1q:50:LYS:HE3	48:1q:51:TYR:CE2	2.56	0.40
54:1w:54:5MU:HN3	54:1w:58:A:H8	1.69	0.40
54:1w:68:C:H2'	54:1w:69:A:H8	1.85	0.40
1:2A:1116:C:H2'	1:2A:1117:G:C8	2.57	0.40
1:2A:1908:C:O2	55:2x:12:G:H4'	2.22	0.40
1:2A:2037:G:H2'	1:2A:2038:G:C8	2.57	0.40
1:2A:2261:C:H1'	1:2A:2388:A:N3	2.37	0.40
1:2A:2405:G:O2'	1:2A:2406:U:OP1	2.26	0.40
1:2A:2557:G:H2'	1:2A:2558:C:C6	2.56	0.40
4:2E:48:GLN:HE21	4:2E:78:LEU:HB3	1.86	0.40
12:2Q:109:VAL:HG22	12:2Q:113:GLN:OE1	2.21	0.40
13:2R:28:LEU:HD23	13:2R:48:VAL:HG21	2.04	0.40
18:2W:107:LEU:HD12	18:2W:107:LEU:HA	1.91	0.40
19:2X:44:GLU:HG2	19:2X:49:VAL:O	2.21	0.40
31:29:7:VAL:HG12	31:29:34:GLN:HB3	2.03	0.40
32:2a:189(F):U:H3	48:2q:72:ARG:HH12	1.62	0.40
32:2a:841:U:O2	32:2a:841:U:H2'	2.21	0.40
32:2a:858:G:O6	32:2a:869:G:H3'	2.21	0.40
32:2a:947:G:O3'	44:2m:109:THR:OG1	2.35	0.40
32:2a:1048:G:OP1	45:2n:3:ARG:HG2	2.21	0.40
32:2a:1133:G:C6	32:2a:1142:G:C6	3.09	0.40
32:2a:1181:G:O2'	32:2a:1182:G:C5	2.75	0.40
32:2a:1304:G:C6	32:2a:1305:G:N1	2.89	0.40
35:2d:10:ARG:HB2	35:2d:40:PRO:HG3	2.03	0.40
37:2f:76:ALA:O	37:2f:80:ARG:HG3	2.22	0.40
39:2h:36:LEU:HD23	39:2h:39:LEU:HD12	2.02	0.40
42:2k:77:MET:HE2	42:2k:77:MET:HB2	2.01	0.40
45:2n:24:CYS:HB2	45:2n:40:CYS:HB3	2.04	0.40
46:2o:40:SER:O	46:2o:44:LYS:HG3	2.21	0.40
49:2r:66:LEU:O	49:2r:70:ILE:HG13	2.22	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:358:U:OP1	8:2I:121:LYS:NZ[2_655]	2.19	0.01

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	260 (95%)	12 (4%)	1 (0%)	30	51
3	2D	273/276 (99%)	258 (94%)	14 (5%)	1 (0%)	30	51
4	1E	202/206 (98%)	193 (96%)	8 (4%)	1 (0%)	24	46
4	2E	202/206 (98%)	194 (96%)	7 (4%)	1 (0%)	24	46
5	1F	201/210 (96%)	197 (98%)	3 (2%)	1 (0%)	24	46
5	2F	201/210 (96%)	193 (96%)	6 (3%)	2 (1%)	12	28
6	1G	179/182 (98%)	167 (93%)	10 (6%)	2 (1%)	11	25
6	2G	179/182 (98%)	162 (90%)	15 (8%)	2 (1%)	11	25
7	1H	172/180 (96%)	163 (95%)	9 (5%)	0	100	100
7	2H	172/180 (96%)	162 (94%)	9 (5%)	1 (1%)	21	42
8	1I	144/148 (97%)	126 (88%)	15 (10%)	3 (2%)	5	11
8	2I	144/148 (97%)	131 (91%)	13 (9%)	0	100	100
9	1N	138/140 (99%)	135 (98%)	3 (2%)	0	100	100
9	2N	138/140 (99%)	131 (95%)	7 (5%)	0	100	100
10	1O	120/122 (98%)	112 (93%)	8 (7%)	0	100	100
10	2O	120/122 (98%)	113 (94%)	5 (4%)	2 (2%)	7	15
11	1P	147/150 (98%)	138 (94%)	9 (6%)	0	100	100
11	2P	147/150 (98%)	140 (95%)	5 (3%)	2 (1%)	9	19
12	1Q	139/141 (99%)	132 (95%)	7 (5%)	0	100	100
12	2Q	139/141 (99%)	132 (95%)	7 (5%)	0	100	100
13	1R	116/118 (98%)	111 (96%)	5 (4%)	0	100	100
13	2R	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
14	1S	108/112 (96%)	102 (94%)	6 (6%)	0	100	100
14	2S	108/112 (96%)	103 (95%)	4 (4%)	1 (1%)	14	30
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%)	121 (94%)	7 (5%)	1 (1%)	16	34
16	1U	114/118 (97%)	113 (99%)	1 (1%)	0	100	100
16	2U	114/118 (97%)	109 (96%)	5 (4%)	0	100	100
17	1V	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	12	28
17	2V	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	12	28
18	1W	110/113 (97%)	109 (99%)	1 (1%)	0	100	100
18	2W	110/113 (97%)	109 (99%)	1 (1%)	0	100	100
19	1X	93/96 (97%)	91 (98%)	1 (1%)	1 (1%)	11	25
19	2X	93/96 (97%)	89 (96%)	4 (4%)	0	100	100
20	1Y	105/110 (96%)	99 (94%)	4 (4%)	2 (2%)	6	13
20	2Y	105/110 (96%)	101 (96%)	3 (3%)	1 (1%)	12	28
21	1Z	148/206 (72%)	127 (86%)	21 (14%)	0	100	100
21	2Z	156/206 (76%)	143 (92%)	10 (6%)	3 (2%)	6	13
22	10	81/85 (95%)	81 (100%)	0	0	100	100
22	20	81/85 (95%)	81 (100%)	0	0	100	100
23	11	95/98 (97%)	92 (97%)	2 (2%)	1 (1%)	11	25
23	21	95/98 (97%)	94 (99%)	0	1 (1%)	11	25
24	12	68/72 (94%)	68 (100%)	0	0	100	100
24	22	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
25	13	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
25	23	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
26	14	67/71 (94%)	54 (81%)	9 (13%)	4 (6%)	1	1
26	24	67/71 (94%)	56 (84%)	6 (9%)	5 (8%)	1	1
27	15	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
27	25	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
28	16	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
28	26	51/54 (94%)	48 (94%)	3 (6%)	0	100	100
29	17	46/49 (94%)	46 (100%)	0	0	100	100
29	27	46/49 (94%)	46 (100%)	0	0	100	100
30	18	62/65 (95%)	62 (100%)	0	0	100	100
30	28	62/65 (95%)	61 (98%)	1 (2%)	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%)	202 (88%)	22 (10%)	5 (2%)	5	10
33	2b	229/256 (90%)	204 (89%)	20 (9%)	5 (2%)	5	10
34	1c	204/239 (85%)	183 (90%)	19 (9%)	2 (1%)	12	28
34	2c	204/239 (85%)	187 (92%)	16 (8%)	1 (0%)	24	46
35	1d	206/209 (99%)	197 (96%)	8 (4%)	1 (0%)	24	46
35	2d	206/209 (99%)	196 (95%)	9 (4%)	1 (0%)	24	46
36	1e	146/162 (90%)	138 (94%)	4 (3%)	4 (3%)	4	7
36	2e	146/162 (90%)	135 (92%)	10 (7%)	1 (1%)	18	38
37	1f	98/101 (97%)	94 (96%)	4 (4%)	0	100	100
37	2f	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
38	1g	153/156 (98%)	144 (94%)	5 (3%)	4 (3%)	4	7
38	2g	153/156 (98%)	141 (92%)	8 (5%)	4 (3%)	4	7
39	1h	135/138 (98%)	131 (97%)	4 (3%)	0	100	100
39	2h	135/138 (98%)	127 (94%)	7 (5%)	1 (1%)	18	38
40	1i	125/128 (98%)	111 (89%)	14 (11%)	0	100	100
40	2i	125/128 (98%)	116 (93%)	8 (6%)	1 (1%)	16	34
41	1j	95/105 (90%)	85 (90%)	6 (6%)	4 (4%)	2	3
41	2j	94/105 (90%)	82 (87%)	7 (7%)	5 (5%)	1	1
42	1k	112/129 (87%)	108 (96%)	3 (3%)	1 (1%)	14	30
42	2k	112/129 (87%)	103 (92%)	7 (6%)	2 (2%)	6	14
43	1l	119/132 (90%)	117 (98%)	2 (2%)	0	100	100
43	2l	119/132 (90%)	112 (94%)	7 (6%)	0	100	100
44	1m	121/126 (96%)	112 (93%)	9 (7%)	0	100	100
44	2m	120/126 (95%)	113 (94%)	7 (6%)	0	100	100
45	1n	58/61 (95%)	55 (95%)	3 (5%)	0	100	100
45	2n	58/61 (95%)	55 (95%)	3 (5%)	0	100	100
46	1o	86/89 (97%)	83 (96%)	3 (4%)	0	100	100
46	2o	86/89 (97%)	84 (98%)	2 (2%)	0	100	100
47	1p	80/88 (91%)	76 (95%)	4 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	2p	80/88 (91%)	76 (95%)	4 (5%)	0	100	100
48	1q	97/105 (92%)	92 (95%)	5 (5%)	0	100	100
48	2q	97/105 (92%)	90 (93%)	7 (7%)	0	100	100
49	1r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
49	2r	66/88 (75%)	65 (98%)	1 (2%)	0	100	100
50	1s	81/93 (87%)	71 (88%)	9 (11%)	1 (1%)	10	23
50	2s	81/93 (87%)	70 (86%)	10 (12%)	1 (1%)	10	23
51	1t	94/106 (89%)	86 (92%)	5 (5%)	3 (3%)	3	5
51	2t	94/106 (89%)	86 (92%)	3 (3%)	5 (5%)	1	1
52	1u	21/27 (78%)	18 (86%)	3 (14%)	0	100	100
52	2u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
56	A	5/9 (56%)	3 (60%)	1 (20%)	1 (20%)	0	0
56	B	4/9 (44%)	2 (50%)	2 (50%)	0	100	100
56	C	5/9 (56%)	1 (20%)	2 (40%)	2 (40%)	0	0
All	All	11384/12155 (94%)	10713 (94%)	575 (5%)	96 (1%)	16	34

All (96) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
26	14	65	ASP
5	2F	130	ALA
6	2G	52	ILE
17	2V	79	VAL
21	2Z	146	ILE
26	24	55	ARG
26	24	56	VAL
33	2b	125	PRO
51	2t	10	LEU
56	C	7	HIS
6	1G	47	LYS
17	1V	79	VAL
19	1X	93	GLU
23	11	3	LYS
36	1e	85	GLY
38	1g	4	ARG
51	1t	47	GLY

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Mol	Chain	Res	Type
10	2O	5	GLN
23	21	3	LYS
33	2b	17	PHE
33	2b	36	ARG
36	2e	85	GLY
41	2j	75	ILE
41	2j	79	ARG
42	2k	49	GLY
6	1G	43	LEU
20	1Y	103	GLY
26	14	55	ARG
33	1b	17	PHE
33	1b	125	PRO
34	1c	107	GLN
41	1j	79	ARG
50	1s	27	GLU
21	2Z	2	GLU
26	24	47	GLN
26	24	65	ASP
33	2b	20	GLU
38	2g	52	GLU
39	2h	68	ARG
41	2j	29	ARG
3	1D	3	VAL
4	1E	52	LEU
33	1b	78	GLN
35	1d	5	ILE
36	1e	86	ALA
36	1e	98	THR
38	1g	80	VAL
41	1j	32	ALA
41	1j	78	ASN
4	2E	52	LEU
10	2O	26	LYS
38	2g	54	THR
50	2s	27	GLU
51	2t	9	ASN
51	2t	47	GLY
8	1I	11	ASN
8	1I	39	ALA
26	14	57	GLU
38	1g	52	GLU

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Mol	Chain	Res	Type
51	1t	95	ALA
3	2D	3	VAL
11	2P	29	LYS
15	2T	127	ALA
26	24	29	PRO
33	2b	78	GLN
38	2g	4	ARG
40	2i	56	LEU
41	2j	32	ALA
41	2j	78	ASN
56	C	3	ALA
8	1I	104	GLN
20	1Y	55	TYR
26	14	64	GLY
33	1b	36	ARG
6	2G	43	LEU
11	2P	122	PRO
20	2Y	55	TYR
51	2t	95	ALA
41	1j	77	PRO
51	1t	100	ILE
7	2H	12	PRO
35	2d	5	ILE
14	2S	96	GLY
34	2c	66	VAL
36	1e	69	VAL
38	1g	55	GLY
42	1k	105	VAL
38	2g	80	VAL
56	A	4	GLY
33	1b	231	GLU
5	2F	89	VAL
42	2k	105	VAL
34	1c	66	VAL
21	2Z	141	VAL
51	2t	100	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	215/218 (99%)	205 (95%)	10 (5%)	23	48
3	2D	215/218 (99%)	206 (96%)	9 (4%)	26	52
4	1E	164/166 (99%)	149 (91%)	15 (9%)	9	19
4	2E	164/166 (99%)	152 (93%)	12 (7%)	13	29
5	1F	160/166 (96%)	148 (92%)	12 (8%)	12	28
5	2F	159/166 (96%)	155 (98%)	4 (2%)	42	69
6	1G	143/156 (92%)	136 (95%)	7 (5%)	22	47
6	2G	143/156 (92%)	139 (97%)	4 (3%)	38	66
7	1H	144/148 (97%)	141 (98%)	3 (2%)	47	73
7	2H	144/148 (97%)	142 (99%)	2 (1%)	59	81
8	1I	113/124 (91%)	110 (97%)	3 (3%)	39	67
8	2I	105/124 (85%)	102 (97%)	3 (3%)	37	65
9	1N	118/119 (99%)	108 (92%)	10 (8%)	10	22
9	2N	118/119 (99%)	112 (95%)	6 (5%)	21	45
10	1O	100/100 (100%)	96 (96%)	4 (4%)	28	55
10	2O	100/100 (100%)	99 (99%)	1 (1%)	68	86
11	1P	115/116 (99%)	110 (96%)	5 (4%)	26	51
11	2P	115/116 (99%)	114 (99%)	1 (1%)	70	87
12	1Q	111/111 (100%)	109 (98%)	2 (2%)	51	76
12	2Q	111/111 (100%)	109 (98%)	2 (2%)	51	76
13	1R	101/101 (100%)	89 (88%)	12 (12%)	5	10
13	2R	101/101 (100%)	94 (93%)	7 (7%)	14	32
14	1S	86/88 (98%)	79 (92%)	7 (8%)	11	24
14	2S	85/88 (97%)	83 (98%)	2 (2%)	43	70
15	1T	115/127 (91%)	111 (96%)	4 (4%)	32	59
15	2T	113/127 (89%)	111 (98%)	2 (2%)	51	76
16	1U	93/94 (99%)	87 (94%)	6 (6%)	15	35
16	2U	93/94 (99%)	90 (97%)	3 (3%)	34	62
17	1V	80/82 (98%)	73 (91%)	7 (9%)	9	21
17	2V	80/82 (98%)	75 (94%)	5 (6%)	16	36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	1W	90/92 (98%)	83 (92%)	7 (8%)	11	26
18	2W	90/92 (98%)	86 (96%)	4 (4%)	25	50
19	1X	77/78 (99%)	76 (99%)	1 (1%)	61	82
19	2X	77/78 (99%)	77 (100%)	0	100	100
20	1Y	85/91 (93%)	80 (94%)	5 (6%)	18	38
20	2Y	85/91 (93%)	82 (96%)	3 (4%)	32	59
21	1Z	135/179 (75%)	132 (98%)	3 (2%)	45	72
21	2Z	137/179 (76%)	134 (98%)	3 (2%)	45	72
22	10	65/67 (97%)	63 (97%)	2 (3%)	35	63
22	20	65/67 (97%)	64 (98%)	1 (2%)	57	80
23	11	80/83 (96%)	78 (98%)	2 (2%)	42	69
23	21	80/83 (96%)	78 (98%)	2 (2%)	42	69
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%)	48 (94%)	3 (6%)	18	38
25	23	50/52 (96%)	50 (100%)	0	100	100
26	14	59/63 (94%)	56 (95%)	3 (5%)	21	45
26	24	53/63 (84%)	49 (92%)	4 (8%)	12	28
27	15	50/52 (96%)	46 (92%)	4 (8%)	11	25
27	25	50/52 (96%)	47 (94%)	3 (6%)	17	37
28	16	51/52 (98%)	46 (90%)	5 (10%)	7	17
28	26	50/52 (96%)	48 (96%)	2 (4%)	28	55
29	17	41/42 (98%)	39 (95%)	2 (5%)	22	47
29	27	41/42 (98%)	40 (98%)	1 (2%)	43	70
30	18	54/55 (98%)	51 (94%)	3 (6%)	19	40
30	28	54/55 (98%)	53 (98%)	1 (2%)	50	75
31	19	34/34 (100%)	33 (97%)	1 (3%)	37	65
31	29	34/34 (100%)	32 (94%)	2 (6%)	18	38
33	1b	192/220 (87%)	189 (98%)	3 (2%)	55	79
33	2b	187/220 (85%)	184 (98%)	3 (2%)	55	79
34	1c	142/188 (76%)	136 (96%)	6 (4%)	26	52

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	2c	140/188 (74%)	140 (100%)	0	100	100
35	1d	169/181 (93%)	163 (96%)	6 (4%)	31	58
35	2d	173/181 (96%)	169 (98%)	4 (2%)	44	71
36	1e	113/123 (92%)	111 (98%)	2 (2%)	51	76
36	2e	114/123 (93%)	112 (98%)	2 (2%)	51	76
37	1f	84/90 (93%)	83 (99%)	1 (1%)	63	83
37	2f	85/90 (94%)	85 (100%)	0	100	100
38	1g	119/127 (94%)	119 (100%)	0	100	100
38	2g	120/127 (94%)	120 (100%)	0	100	100
39	1h	114/119 (96%)	110 (96%)	4 (4%)	32	59
39	2h	114/119 (96%)	111 (97%)	3 (3%)	40	68
40	1i	90/99 (91%)	88 (98%)	2 (2%)	45	72
40	2i	89/99 (90%)	87 (98%)	2 (2%)	45	72
41	1j	66/92 (72%)	65 (98%)	1 (2%)	57	80
41	2j	69/92 (75%)	68 (99%)	1 (1%)	59	81
42	1k	82/99 (83%)	81 (99%)	1 (1%)	63	83
42	2k	83/99 (84%)	81 (98%)	2 (2%)	43	70
43	1l	96/108 (89%)	93 (97%)	3 (3%)	35	63
43	2l	96/108 (89%)	94 (98%)	2 (2%)	47	73
44	1m	93/101 (92%)	92 (99%)	1 (1%)	65	84
44	2m	92/101 (91%)	92 (100%)	0	100	100
45	1n	49/50 (98%)	46 (94%)	3 (6%)	17	37
45	2n	49/50 (98%)	47 (96%)	2 (4%)	27	54
46	1o	78/80 (98%)	77 (99%)	1 (1%)	61	82
46	2o	78/80 (98%)	76 (97%)	2 (3%)	40	68
47	1p	69/74 (93%)	64 (93%)	5 (7%)	13	30
47	2p	68/74 (92%)	61 (90%)	7 (10%)	7	15
48	1q	94/97 (97%)	93 (99%)	1 (1%)	65	84
48	2q	94/97 (97%)	94 (100%)	0	100	100
49	1r	59/77 (77%)	59 (100%)	0	100	100
49	2r	59/77 (77%)	59 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	1s	69/80 (86%)	68 (99%)	1 (1%)	59	81
50	2s	67/80 (84%)	66 (98%)	1 (2%)	57	80
51	1t	70/82 (85%)	68 (97%)	2 (3%)	37	65
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
56	A	4/4 (100%)	2 (50%)	2 (50%)	0	0
56	B	3/4 (75%)	2 (67%)	1 (33%)	0	0
56	C	4/4 (100%)	3 (75%)	1 (25%)	0	1
All	All	9314/10076 (92%)	8999 (97%)	315 (3%)	32	60

All (315) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	32	SER
3	1D	61	LEU
3	1D	94	LEU
3	1D	113	VAL
3	1D	142	VAL
3	1D	155	LEU
3	1D	173	VAL
3	1D	221	VAL
3	1D	229	VAL
3	1D	242	ARG
4	1E	7	VAL
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	47	VAL
4	1E	75	VAL
4	1E	77	ILE
4	1E	101	ARG
4	1E	116	VAL
4	1E	175	VAL
4	1E	181	LEU
4	1E	184	VAL

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Mol	Chain	Res	Type
5	1F	24	LEU
5	1F	33	LEU
5	1F	44	ARG
5	1F	53	THR
5	1F	88	VAL
5	1F	106	ARG
5	1F	158	THR
5	1F	170	LEU
5	1F	175	THR
5	1F	183	VAL
5	1F	192	LEU
5	1F	201	VAL
6	1G	3	LEU
6	1G	5	VAL
6	1G	16	ARG
6	1G	43	LEU
6	1G	109	VAL
6	1G	133	LEU
6	1G	175	LEU
7	1H	15	VAL
7	1H	71	LEU
7	1H	122	THR
8	1I	92	VAL
8	1I	109	ILE
8	1I	140	LEU
9	1N	14	VAL
9	1N	33	LEU
9	1N	34	LEU
9	1N	35	ARG
9	1N	58	ASP
9	1N	62	VAL
9	1N	73	THR
9	1N	87	LEU
9	1N	99	LEU
9	1N	112	LEU
10	1O	10	VAL
10	1O	28	SER
10	1O	69	ILE
10	1O	98	VAL
11	1P	3	LEU
11	1P	56	SER
11	1P	83	VAL

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Mol	Chain	Res	Type
11	1P	95	VAL
11	1P	125	VAL
12	1Q	35	VAL
12	1Q	109	VAL
13	1R	6	SER
13	1R	8	ARG
13	1R	29	LEU
13	1R	36	THR
13	1R	44	LEU
13	1R	54	LEU
13	1R	65	LEU
13	1R	67	LEU
13	1R	86	ARG
13	1R	100	LEU
13	1R	111	LEU
13	1R	114	VAL
14	1S	14	VAL
14	1S	23	ARG
14	1S	46	VAL
14	1S	50	SER
14	1S	52	SER
14	1S	69	VAL
14	1S	110	LEU
15	1T	28	VAL
15	1T	96	ARG
15	1T	111	ARG
15	1T	128	GLU
16	1U	8	VAL
16	1U	31	SER
16	1U	74	LEU
16	1U	77	SER
16	1U	83	LEU
16	1U	95	LEU
17	1V	18	LEU
17	1V	51	VAL
17	1V	61	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	73	SER
17	1V	79	VAL
18	1W	6	ILE
18	1W	11	ARG

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Mol	Chain	Res	Type
18	1W	17	VAL
18	1W	19	LEU
18	1W	23	LEU
18	1W	96	ILE
18	1W	107	LEU
19	1X	35	THR
20	1Y	7	VAL
20	1Y	43	ASN
20	1Y	72	VAL
20	1Y	97	ARG
20	1Y	99	CYS
21	1Z	61	LEU
21	1Z	153	SER
21	1Z	154	ASP
22	10	14	ARG
22	10	39	ARG
23	11	30	VAL
23	11	95	LEU
25	13	23	LEU
25	13	34	GLU
25	13	54	VAL
26	14	49	PHE
26	14	52	THR
26	14	56	VAL
27	15	6	VAL
27	15	16	ARG
27	15	29	THR
27	15	58	LEU
28	16	14	THR
28	16	24	GLU
28	16	44	ARG
28	16	48	VAL
28	16	52	VAL
29	17	34	ARG
29	17	43	THR
30	18	13	ARG
30	18	14	VAL
30	18	32	LEU
31	19	4	ARG
33	1b	111	ARG
33	1b	122	PHE
33	1b	175	ARG

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Mol	Chain	Res	Type
34	1c	3	ASN
34	1c	15	THR
34	1c	70	VAL
34	1c	115	LEU
34	1c	152	ILE
34	1c	198	VAL
35	1d	5	ILE
35	1d	8	VAL
35	1d	59	ARG
35	1d	107	ARG
35	1d	135	LEU
35	1d	194	LEU
36	1e	20	GLN
36	1e	41	VAL
37	1f	21	LEU
39	1h	26	VAL
39	1h	63	LEU
39	1h	104	ARG
39	1h	133	LEU
40	1i	81	ILE
40	1i	128	ARG
41	1j	8	LEU
42	1k	114	VAL
43	1l	27	LEU
43	1l	83	VAL
43	1l	117	ARG
44	1m	25	ILE
45	1n	18	VAL
45	1n	22	THR
45	1n	33	VAL
46	1o	87	ILE
47	1p	2	VAL
47	1p	20	VAL
47	1p	42	ARG
47	1p	67	THR
47	1p	69	THR
48	1q	62	SER
50	1s	71	LEU
51	1t	8	ARG
51	1t	10	LEU
3	2D	61	LEU
3	2D	94	LEU

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Mol	Chain	Res	Type
3	2D	142	VAL
3	2D	155	LEU
3	2D	157	ARG
3	2D	173	VAL
3	2D	221	VAL
3	2D	229	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	58	ARG
4	2E	75	VAL
4	2E	101	ARG
4	2E	116	VAL
4	2E	175	VAL
4	2E	181	LEU
5	2F	88	VAL
5	2F	106	ARG
5	2F	183	VAL
5	2F	201	VAL
6	2G	3	LEU
6	2G	43	LEU
6	2G	109	VAL
6	2G	140	ILE
7	2H	15	VAL
7	2H	134	SER
8	2I	92	VAL
8	2I	127	VAL
8	2I	140	LEU
9	2N	14	VAL
9	2N	33	LEU
9	2N	34	LEU
9	2N	35	ARG
9	2N	62	VAL
9	2N	99	LEU
10	2O	98	VAL
11	2P	95	VAL
12	2Q	109	VAL
12	2Q	110	THR

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Mol	Chain	Res	Type
13	2R	6	SER
13	2R	29	LEU
13	2R	36	THR
13	2R	65	LEU
13	2R	67	LEU
13	2R	111	LEU
13	2R	114	VAL
14	2S	14	VAL
14	2S	69	VAL
15	2T	28	VAL
15	2T	111	ARG
16	2U	31	SER
16	2U	53	ARG
16	2U	95	LEU
17	2V	7	THR
17	2V	61	VAL
17	2V	62	LEU
17	2V	72	VAL
17	2V	79	VAL
18	2W	19	LEU
18	2W	23	LEU
18	2W	96	ILE
18	2W	107	LEU
20	2Y	43	ASN
20	2Y	72	VAL
20	2Y	85	VAL
21	2Z	74	VAL
21	2Z	126	VAL
21	2Z	154	ASP
22	20	40	GLN
23	21	4	VAL
23	21	95	LEU
26	24	48	ARG
26	24	49	PHE
26	24	52	THR
26	24	56	VAL
27	25	6	VAL
27	25	29	THR
27	25	58	LEU
28	26	44	ARG
28	26	48	VAL
29	27	43	THR

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Mol	Chain	Res	Type
30	28	32	LEU
31	29	7	VAL
31	29	17	ILE
33	2b	124	SER
33	2b	128	GLU
33	2b	175	ARG
35	2d	8	VAL
35	2d	59	ARG
35	2d	135	LEU
35	2d	194	LEU
36	2e	20	GLN
36	2e	41	VAL
39	2h	25	ASP
39	2h	85	ARG
39	2h	112	LEU
40	2i	50	LEU
40	2i	102	LEU
41	2j	8	LEU
42	2k	14	VAL
42	2k	114	VAL
43	2l	27	LEU
43	2l	83	VAL
45	2n	18	VAL
45	2n	33	VAL
46	2o	39	LEU
46	2o	87	ILE
47	2p	2	VAL
47	2p	20	VAL
47	2p	21	VAL
47	2p	42	ARG
47	2p	62	VAL
47	2p	67	THR
47	2p	69	THR
50	2s	41	VAL
56	A	1	LYS
56	A	8	LYS
56	B	4	PRO
56	C	8	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (118) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	87	ASN
3	1D	116	GLN
3	1D	126	GLN
5	1F	8	GLN
5	1F	69	HIS
5	1F	203	GLN
8	1I	139	GLN
9	1N	56	ASN
9	1N	94	HIS
12	1Q	13	GLN
13	1R	24	GLN
13	1R	71	GLN
13	1R	91	GLN
14	1S	61	ASN
14	1S	95	HIS
16	1U	72	HIS
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS
20	1Y	43	ASN
21	1Z	65	GLN
21	1Z	73	GLN
22	10	50	ASN
23	11	56	GLN
24	12	56	GLN
24	12	65	ASN
25	13	32	GLN
26	14	47	GLN
30	18	35	GLN
33	1b	40	HIS
33	1b	78	GLN
34	1c	6	HIS
34	1c	108	ASN
34	1c	162	GLN
35	1d	77	ASN
35	1d	116	GLN
35	1d	119	GLN
35	1d	123	HIS
35	1d	125	HIS
36	1e	20	GLN
36	1e	78	HIS
36	1e	141	GLN
37	1f	13	ASN

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Mol	Chain	Res	Type
37	1f	100	ASN
38	1g	28	ASN
40	1i	31	GLN
40	1i	58	HIS
40	1i	124	GLN
41	1j	56	HIS
42	1k	93	GLN
42	1k	116	HIS
43	1l	99	HIS
44	1m	77	ASN
47	1p	13	HIS
47	1p	16	HIS
48	1q	26	GLN
50	1s	57	HIS
50	1s	69	HIS
50	1s	83	HIS
51	1t	73	HIS
51	1t	75	ASN
3	2D	87	ASN
3	2D	116	GLN
3	2D	166	GLN
4	2E	48	GLN
5	2F	40	GLN
5	2F	69	HIS
5	2F	75	HIS
5	2F	133	ASN
6	2G	40	ASN
8	2I	11	ASN
8	2I	105	HIS
8	2I	133	HIS
8	2I	139	GLN
9	2N	94	HIS
13	2R	24	GLN
13	2R	50	HIS
13	2R	71	GLN
15	2T	43	GLN
15	2T	58	ASN
19	2X	31	HIS
19	2X	82	GLN
20	2Y	6	HIS
20	2Y	43	ASN
21	2Z	55	HIS

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Mol	Chain	Res	Type
21	2Z	65	GLN
21	2Z	121	HIS
23	21	56	GLN
24	22	56	GLN
26	24	46	GLN
28	26	20	ASN
33	2b	40	HIS
33	2b	78	GLN
34	2c	6	HIS
34	2c	170	GLN
35	2d	77	ASN
35	2d	119	GLN
35	2d	123	HIS
35	2d	125	HIS
35	2d	161	ASN
36	2e	78	HIS
37	2f	13	ASN
37	2f	73	ASN
37	2f	100	ASN
38	2g	28	ASN
38	2g	148	ASN
40	2i	58	HIS
40	2i	124	GLN
41	2j	21	GLN
41	2j	56	HIS
42	2k	93	GLN
43	2l	80	HIS
44	2m	12	ASN
47	2p	16	HIS
49	2r	63	GLN
50	2s	69	HIS
50	2s	83	HIS
56	B	5	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	411 (14%)	29 (1%)
1	2A	2791/2915 (95%)	468 (16%)	22 (0%)
2	1B	120/121 (99%)	7 (5%)	1 (0%)
2	2B	118/121 (97%)	24 (20%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
32	1a	1497/1521 (98%)	237 (15%)	0
32	2a	1501/1521 (98%)	249 (16%)	0
53	1v	12/27 (44%)	2 (16%)	0
53	2v	12/27 (44%)	2 (16%)	0
54	1w	70/76 (92%)	23 (32%)	0
54	1y	72/76 (94%)	25 (34%)	0
54	2w	70/76 (92%)	23 (32%)	0
54	2y	71/76 (93%)	32 (45%)	0
55	1x	75/77 (97%)	12 (16%)	0
55	2x	75/77 (97%)	12 (16%)	0
All	All	9348/9626 (97%)	1527 (16%)	52 (0%)

All (1527) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	13	A
1	1A	34	C
1	1A	45	C
1	1A	54	G
1	1A	63	A
1	1A	70	A
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	137	G
1	1A	177	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	217	A
1	1A	218	A
1	1A	222	A

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Mol	Chain	Res	Type
1	1A	237	G
1	1A	271	U
1	1A	272	U
1	1A	273	G
1	1A	275	C
1	1A	289	G
1	1A	303	C
1	1A	335	A
1	1A	353	G
1	1A	354	A
1	1A	376	G
1	1A	387	G
1	1A	389	G
1	1A	413	G
1	1A	423	G
1	1A	432	U
1	1A	438	G
1	1A	448	U
1	1A	455	A
1	1A	469	A
1	1A	470	C
1	1A	474	U
1	1A	477	C
1	1A	480	A
1	1A	482	C
1	1A	483	A
1	1A	507	G
1	1A	529	U
1	1A	530	A
1	1A	534	C
1	1A	554	A
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	626	A
1	1A	627	G

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Mol	Chain	Res	Type
1	1A	630	U
1	1A	639	G
1	1A	641	G
1	1A	652	A
1	1A	659	C
1	1A	662	A
1	1A	670	C
1	1A	671	A
1	1A	678	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	793	A
1	1A	794	U
1	1A	811	A
1	1A	822	G
1	1A	823	G
1	1A	829	A
1	1A	830	A
1	1A	831	A
1	1A	832	G
1	1A	837	C
1	1A	839	G
1	1A	852	G
1	1A	859	C
1	1A	866	A
1	1A	874	U
1	1A	875	U
1	1A	902	G
1	1A	906	G
1	1A	913	A
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

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Mol	Chain	Res	Type
1	1A	939	C
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
1	1A	991	G
1	1A	998	A
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	1068	G
1	1A	1072	U
1	1A	1079	U
1	1A	1087	C
1	1A	1090	G
1	1A	1092	A
1	1A	1093	G
1	1A	1094	A
1	1A	1100	A
1	1A	1101	G
1	1A	1104	G
1	1A	1105	G
1	1A	1109	G
1	1A	1110	C
1	1A	1112	U
1	1A	1114	G
1	1A	1117	G
1	1A	1119	A
1	1A	1121	C
1	1A	1122	C
1	1A	1124	U
1	1A	1127	U
1	1A	1134	A

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Mol	Chain	Res	Type
1	1A	1135	G
1	1A	1136	U
1	1A	1137	G
1	1A	1140	U
1	1A	1143	U
1	1A	1144	A
1	1A	1147	U
1	1A	1149	A
1	1A	1156	G
1	1A	1157	A
1	1A	1158	G
1	1A	1174	A
1	1A	1180	C
1	1A	1181	G
1	1A	1201	A
1	1A	1216	G
1	1A	1217	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	1265	A
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	1354	A
1	1A	1398	U
1	1A	1405	A
1	1A	1406	A
1	1A	1411	A
1	1A	1426	G
1	1A	1430	A
1	1A	1431	G

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Mol	Chain	Res	Type
1	1A	1432	C
1	1A	1441	A
1	1A	1442	U
1	1A	1462	G
1	1A	1463	C
1	1A	1466	U
1	1A	1467	G
1	1A	1474	C
1	1A	1483	C
1	1A	1491	A
1	1A	1497	G
1	1A	1502	G
1	1A	1506	G
1	1A	1514	C
1	1A	1529	G
1	1A	1539	C
1	1A	1543	U
1	1A	1554	A
1	1A	1555	C
1	1A	1556	A
1	1A	1587	U
1	1A	1589	A
1	1A	1590	C
1	1A	1605	A
1	1A	1613	A
1	1A	1616	A
1	1A	1625	U
1	1A	1627	A
1	1A	1628	G
1	1A	1631	C
1	1A	1632	A
1	1A	1654	A
1	1A	1656	A
1	1A	1694	G
1	1A	1695	C
1	1A	1700	G
1	1A	1701	A
1	1A	1711	A
1	1A	1721	G
1	1A	1743	G
1	1A	1747	A
1	1A	1748	A

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Mol	Chain	Res	Type
1	1A	1750	G
1	1A	1767	A
1	1A	1768	U
1	1A	1787	G
1	1A	1794	G
1	1A	1795	G
1	1A	1804	A
1	1A	1811	A
1	1A	1813	C
1	1A	1822	A
1	1A	1831	C
1	1A	1832	G
1	1A	1847	G
1	1A	1860	A
1	1A	1878	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	1985	U
1	1A	1987	C
1	1A	1989	C
1	1A	1992	A
1	1A	1993	A
1	1A	1994	A
1	1A	2015	U
1	1A	2019	G
1	1A	2042	A
1	1A	2045	G
1	1A	2053	A
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	2129	C
1	1A	2132	G
1	1A	2135	U
1	1A	2136	A
1	1A	2142	G
1	1A	2147	G
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	2159	C
1	1A	2160	C
1	1A	2162	C
1	1A	2163	G
1	1A	2164	C
1	1A	2166	U
1	1A	2168	C
1	1A	2169	G
1	1A	2171	G
1	1A	2172	U
1	1A	2173	G
1	1A	2177	G
1	1A	2179	G
1	1A	2180	A
1	1A	2181	G
1	1A	2184	G
1	1A	2185	C
1	1A	2187	G
1	1A	2188	G
1	1A	2193	A
1	1A	2194	U
1	1A	2195	A
1	1A	2200	C
1	1A	2206	G

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Mol	Chain	Res	Type
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	2295	C
1	1A	2298	A
1	1A	2299	A
1	1A	2301	G
1	1A	2317	A
1	1A	2320	G
1	1A	2321	A
1	1A	2324	U
1	1A	2332	A
1	1A	2337	G
1	1A	2346	G
1	1A	2348	A
1	1A	2359	C
1	1A	2362	C
1	1A	2366	G
1	1A	2373	A
1	1A	2384	G
1	1A	2395	G
1	1A	2397	C
1	1A	2418	U
1	1A	2419	G
1	1A	2436	C
1	1A	2437	A
1	1A	2441	G
1	1A	2442	A
1	1A	2443	U
1	1A	2447	A
1	1A	2451	A
1	1A	2452	C
1	1A	2453	C

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Mol	Chain	Res	Type
1	1A	2460	A
1	1A	2480	G
1	1A	2486	C
1	1A	2488	A
1	1A	2510	C
1	1A	2514	G
1	1A	2517	G
1	1A	2518	U
1	1A	2530	A
1	1A	2541	G
1	1A	2566	U
1	1A	2578	A
1	1A	2579	G
1	1A	2581	G
1	1A	2585	C
1	1A	2614	A
1	1A	2621	U
1	1A	2623	U
1	1A	2624	C
1	1A	2642	G
1	1A	2666	A
1	1A	2701	U
1	1A	2703	C
1	1A	2714	U
1	1A	2715	C
1	1A	2725	A
1	1A	2726	A
1	1A	2727	G
1	1A	2739	U
1	1A	2746	A
1	1A	2771	A
1	1A	2777	A
1	1A	2778	A
1	1A	2791	A
1	1A	2803	A
1	1A	2804	C
1	1A	2807	C
1	1A	2813	G
1	1A	2816	G
1	1A	2830	A
1	1A	2831	A
1	1A	2845	A

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Mol	Chain	Res	Type
1	1A	2849	G
1	1A	2882	G
1	1A	2883	A
1	1A	2890	C
1	1A	2901	A
1	1A	2903	G
2	1B	2	C
2	1B	13	A
2	1B	15	A
2	1B	56	G
2	1B	73	A
2	1B	85	G
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	22	G
32	1a	32	A
32	1a	39	G
32	1a	47	C
32	1a	48	C
32	1a	51	A
32	1a	54	C
32	1a	61	G
32	1a	73	G
32	1a	79	G
32	1a	91	C
32	1a	98	G
32	1a	101	A
32	1a	105	G
32	1a	115	G
32	1a	116	A
32	1a	121	C
32	1a	129(A)	G
32	1a	131	C
32	1a	144	G
32	1a	157	G
32	1a	162	A
32	1a	163	C
32	1a	164	U
32	1a	168	G
32	1a	174	C
32	1a	182	U

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Mol	Chain	Res	Type
32	1a	189(G)	G
32	1a	189(H)	G
32	1a	189(J)	G
32	1a	195	A
32	1a	197	A
32	1a	202	U
32	1a	203	U
32	1a	204	U
32	1a	216	G
32	1a	222	U
32	1a	247	G
32	1a	251	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	348	G
32	1a	351	G
32	1a	352	C
32	1a	353	A
32	1a	354	G
32	1a	367	U
32	1a	372	C
32	1a	373	A
32	1a	384	G
32	1a	388	G
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	413	G
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	547	A
32	1a	559	A
32	1a	560	U
32	1a	561	U
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	576	G
32	1a	577	G
32	1a	596	C
32	1a	607	A
32	1a	630	G
32	1a	653	A
32	1a	665	A
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	717	C
32	1a	721	G
32	1a	723	U
32	1a	724	G
32	1a	731	G
32	1a	749	C
32	1a	752	G
32	1a	753	A
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	817	C
32	1a	821	G

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Mol	Chain	Res	Type
32	1a	828	A
32	1a	833	U
32	1a	834	C
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	859	A
32	1a	870	U
32	1a	873	A
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
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	983	A
32	1a	992	U
32	1a	993	G
32	1a	997	U
32	1a	1000	U
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1009	G
32	1a	1020	U
32	1a	1022	G
32	1a	1023	G
32	1a	1024	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C

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Mol	Chain	Res	Type
32	1a	1028	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	1124	G
32	1a	1125	U
32	1a	1131	G
32	1a	1134	G
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1141	C
32	1a	1146	A
32	1a	1152	A
32	1a	1157	A
32	1a	1159	U
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1201	A
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1214	C
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

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Mol	Chain	Res	Type
32	1a	1275	A
32	1a	1278	U
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U
32	1a	1305	G
32	1a	1320	C
32	1a	1338	G
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1363(A)	A
32	1a	1364	U
32	1a	1370	G
32	1a	1378	C
32	1a	1397	C
32	1a	1400	5MC
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1442(B)	A
32	1a	1446	U
32	1a	1447	A
32	1a	1456	G
32	1a	1487	G
32	1a	1492	A
32	1a	1494	G
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U
32	1a	1517	G
32	1a	1519	MA6
32	1a	1529	G
32	1a	1530	G
32	1a	1532	U
53	1v	13	A
53	1v	14	A

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Mol	Chain	Res	Type
54	1w	2	G
54	1w	6	A
54	1w	8	4SU
54	1w	9	A
54	1w	14	A
54	1w	19	G
54	1w	23	A
54	1w	35	A
54	1w	45	G
54	1w	46	7MG
54	1w	47	U
54	1w	49	G
54	1w	50	G
54	1w	51	C
54	1w	56	C
54	1w	57	G
54	1w	58	A
54	1w	59	U
54	1w	61	C
54	1w	62	C
54	1w	68	C
54	1w	70	C
54	1w	74	C
55	1x	6	G
55	1x	9	G
55	1x	18	G
55	1x	19	G
55	1x	21	A
55	1x	22	G
55	1x	31	G
55	1x	47	U
55	1x	61	C
55	1x	63	G
55	1x	69	C
55	1x	76	A
54	1y	2	G
54	1y	5	G
54	1y	6	A
54	1y	9	A
54	1y	15	G
54	1y	19	G
54	1y	20	G

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Mol	Chain	Res	Type
54	1y	21	A
54	1y	24	G
54	1y	33	U
54	1y	35	A
54	1y	44	G
54	1y	45	G
54	1y	46	7MG
54	1y	48	C
54	1y	49	G
54	1y	54	5MU
54	1y	56	C
54	1y	57	G
54	1y	59	U
54	1y	61	C
54	1y	62	C
54	1y	65	C
54	1y	67	U
54	1y	69	A
1	2A	10	G
1	2A	11	G
1	2A	14	A
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	51	G
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	79	G
1	2A	84	A
1	2A	90	U
1	2A	94	C
1	2A	95	G
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	120	U
1	2A	131	G
1	2A	141	A
1	2A	149	A
1	2A	154(A)	C

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Mol	Chain	Res	Type
1	2A	157	U
1	2A	181	A
1	2A	196	A
1	2A	197	A
1	2A	199	A
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	222	A
1	2A	228	A
1	2A	229	A
1	2A	230	U
1	2A	233	A
1	2A	248	G
1	2A	249	C
1	2A	250	G
1	2A	266	G
1	2A	271(J)	C
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	271(O)	C
1	2A	272	G
1	2A	272(B)	G
1	2A	272(I)	U
1	2A	272(J)	C
1	2A	277	C
1	2A	278	A
1	2A	280	C
1	2A	302	C
1	2A	311	A
1	2A	317	G
1	2A	324	A
1	2A	327	G
1	2A	329	G
1	2A	330	A
1	2A	332	A
1	2A	352	G
1	2A	354	G
1	2A	372	G

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Mol	Chain	Res	Type
1	2A	386	G
1	2A	396	G
1	2A	406	G
1	2A	407	G
1	2A	411	G
1	2A	412	A
1	2A	422	A
1	2A	435	C
1	2A	443	A
1	2A	444	C
1	2A	455	C
1	2A	456	C
1	2A	457	A
1	2A	481	G
1	2A	504	U
1	2A	505	A
1	2A	509	C
1	2A	528	A
1	2A	529	A
1	2A	530	G
1	2A	531	C
1	2A	532	A
1	2A	533	G
1	2A	551	G
1	2A	563	G
1	2A	568	U
1	2A	573	G
1	2A	575	A
1	2A	586	A
1	2A	588	U
1	2A	592	G
1	2A	599	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(B)	G
1	2A	614(C)	A
1	2A	615	G
1	2A	616	G
1	2A	627	A
1	2A	637	A
1	2A	645	C

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Mol	Chain	Res	Type
1	2A	646	A
1	2A	651	G
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	652(U)	G
1	2A	653	A
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	764	A
1	2A	771	G
1	2A	775	G
1	2A	776	G
1	2A	782	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	832	G
1	2A	856	C
1	2A	857	C
1	2A	859	G
1	2A	866	A
1	2A	869	G
1	2A	874	G
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	884	C
1	2A	886	C
1	2A	887	A
1	2A	888	C
1	2A	889	C

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Mol	Chain	Res	Type
1	2A	890	A
1	2A	892	G
1	2A	893	C
1	2A	894	C
1	2A	896	A
1	2A	897	C
1	2A	899	A
1	2A	900	A
1	2A	901	A
1	2A	910	A
1	2A	914	C
1	2A	917	A
1	2A	932	G
1	2A	933	A
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	980	A
1	2A	983	A
1	2A	996	A
1	2A	997	G
1	2A	998	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	1032	A
1	2A	1033	U
1	2A	1038	C
1	2A	1041	C
1	2A	1042	G
1	2A	1043	C
1	2A	1117	G

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Mol	Chain	Res	Type
1	2A	1128	A
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1144	G
1	2A	1155	A
1	2A	1171	G
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1229	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1273	U
1	2A	1284	A
1	2A	1300	U
1	2A	1301	A
1	2A	1314	C
1	2A	1342	A
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1368	G
1	2A	1370	C
1	2A	1380	G
1	2A	1384	A
1	2A	1385	G
1	2A	1386	C
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U
1	2A	1421	G
1	2A	1428	C
1	2A	1435	G
1	2A	1437	C
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G

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Mol	Chain	Res	Type
1	2A	1455	G
1	2A	1460	A
1	2A	1461	G
1	2A	1467	C
1	2A	1471	A
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1496	A
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1514	U
1	2A	1525	G
1	2A	1530	C
1	2A	1531	C
1	2A	1532	C
1	2A	1543	C
1	2A	1547	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1580	A
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
1	2A	1696	G
1	2A	1700	A
1	2A	1701	A
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1740	G

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Mol	Chain	Res	Type
1	2A	1746	G
1	2A	1756	G
1	2A	1758	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1782	C
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1812	A
1	2A	1816	G
1	2A	1829	A
1	2A	1847	A
1	2A	1848	A
1	2A	1877	A
1	2A	1878	G
1	2A	1889	A
1	2A	1900	A
1	2A	1906	G
1	2A	1913	A
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1967	C
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1984	G
1	2A	1993	U
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2033	A
1	2A	2036	C

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Mol	Chain	Res	Type
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	2097	C
1	2A	2099	U
1	2A	2108	C
1	2A	2109	U
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2116	G
1	2A	2119	A
1	2A	2120	G
1	2A	2122	U
1	2A	2124	G
1	2A	2125	G
1	2A	2126	A
1	2A	2127	G
1	2A	2129	C
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G
1	2A	2134	A
1	2A	2135	A
1	2A	2136	C
1	2A	2137	C
1	2A	2138	C
1	2A	2139	C
1	2A	2140	C
1	2A	2141	G
1	2A	2146	C
1	2A	2150	U
1	2A	2151	G
1	2A	2153	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A

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Mol	Chain	Res	Type
1	2A	2161	C
1	2A	2164	C
1	2A	2165	G
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2172	U
1	2A	2173	A
1	2A	2174	C
1	2A	2177	C
1	2A	2178	C
1	2A	2182	G
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	2279	G
1	2A	2283	C
1	2A	2287	A
1	2A	2288	A
1	2A	2294	C
1	2A	2302	G
1	2A	2305	A
1	2A	2308	G
1	2A	2320	A
1	2A	2325	G
1	2A	2327	A
1	2A	2334	G
1	2A	2336	A
1	2A	2343	C
1	2A	2347	C
1	2A	2350	C
1	2A	2376	A
1	2A	2383	G

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Mol	Chain	Res	Type
1	2A	2385	C
1	2A	2403	C
1	2A	2406	U
1	2A	2425	A
1	2A	2429	G
1	2A	2430	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2445	G
1	2A	2448	A
1	2A	2469	A
1	2A	2476	A
1	2A	2490	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	2566	A
1	2A	2567	G
1	2A	2572	A
1	2A	2573	C
1	2A	2602	A
1	2A	2609	U
1	2A	2611	U
1	2A	2612	C
1	2A	2630	G
1	2A	2634	G
1	2A	2662	A
1	2A	2663	G
1	2A	2689	U
1	2A	2690	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

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Mol	Chain	Res	Type
1	2A	2733	A
1	2A	2744	G
1	2A	2751	G
1	2A	2757	A
1	2A	2759	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2793	G
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A
1	2A	2835	A
1	2A	2836	U
1	2A	2872	G
1	2A	2879	C
1	2A	2880	C
1	2A	2883	A
1	2A	2886	G
1	2A	2892	A
1	2A	2894	G
1	2A	2895	U
1	2A	2897	U
2	2B	2	C
2	2B	3	C
2	2B	4	C
2	2B	5	C
2	2B	8	U
2	2B	13	A
2	2B	19	G
2	2B	20	C
2	2B	34	U
2	2B	42	C
2	2B	53	A
2	2B	56	G
2	2B	63	G
2	2B	67	G
2	2B	69	G
2	2B	73	A
2	2B	75	G
2	2B	85	G

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Mol	Chain	Res	Type
2	2B	106	G
2	2B	108	U
2	2B	110	G
2	2B	114	C
2	2B	119	G
2	2B	120	A
32	2a	7	G
32	2a	9	G
32	2a	22	G
32	2a	32	A
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	50	A
32	2a	51	A
32	2a	66	G
32	2a	73	G
32	2a	89	C
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(E)	U
32	2a	189(F)	U
32	2a	195	A
32	2a	197	A
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	247	G
32	2a	251	G
32	2a	266	G
32	2a	267	C
32	2a	281	G
32	2a	289	G
32	2a	301	G

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Mol	Chain	Res	Type
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	384	G
32	2a	397	A
32	2a	398	C
32	2a	406	G
32	2a	412	A
32	2a	413	G
32	2a	421	U
32	2a	423	G
32	2a	424	G
32	2a	429	U
32	2a	430	A
32	2a	439	A
32	2a	442	C
32	2a	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	527	7MG
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	547	A
32	2a	559	A
32	2a	561	U

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Mol	Chain	Res	Type
32	2a	564	C
32	2a	568	G
32	2a	572	A
32	2a	573	A
32	2a	576	G
32	2a	577	G
32	2a	607	A
32	2a	630	G
32	2a	650	G
32	2a	653	A
32	2a	665	A
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	703	G
32	2a	723	U
32	2a	731	G
32	2a	749	C
32	2a	755	G
32	2a	770	C
32	2a	777	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	815	A
32	2a	816	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	840	C
32	2a	841	U
32	2a	853	G
32	2a	859	A
32	2a	874	G
32	2a	880	C
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	931	C
32	2a	932	C
32	2a	934	C

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Mol	Chain	Res	Type
32	2a	935	A
32	2a	960	U
32	2a	961	U
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	984	C
32	2a	992	U
32	2a	993	G
32	2a	995	C
32	2a	997	U
32	2a	999	C
32	2a	1001(A)	G
32	2a	1002	G
32	2a	1004	A
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1020	U
32	2a	1022	G
32	2a	1023	G
32	2a	1024	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1028	C
32	2a	1029	C
32	2a	1030	C
32	2a	1030(A)	G
32	2a	1033	G
32	2a	1035	A
32	2a	1036	G
32	2a	1037	C
32	2a	1039	C
32	2a	1040	U
32	2a	1045	C
32	2a	1053	G
32	2a	1054	C

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Mol	Chain	Res	Type
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	1108	G
32	2a	1117	G
32	2a	1122	U
32	2a	1125	U
32	2a	1129	C
32	2a	1130	A
32	2a	1132	C
32	2a	1136	U
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	1182	G
32	2a	1183	A
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	1220	G
32	2a	1222	G
32	2a	1226	C
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1240	U
32	2a	1246	C
32	2a	1256	A

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Mol	Chain	Res	Type
32	2a	1257	U
32	2a	1258	G
32	2a	1260	C
32	2a	1272	G
32	2a	1273	G
32	2a	1275	A
32	2a	1277	C
32	2a	1279	A
32	2a	1280	A
32	2a	1287	A
32	2a	1299	A
32	2a	1300	G
32	2a	1302	U
32	2a	1303	C
32	2a	1305	G
32	2a	1323	G
32	2a	1340	A
32	2a	1346	A
32	2a	1347	G
32	2a	1353	G
32	2a	1363	C
32	2a	1364	U
32	2a	1370	G
32	2a	1378	C
32	2a	1397	C
32	2a	1402	4OC
32	2a	1404	5MC
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1447	A
32	2a	1452	C
32	2a	1456	G
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
32	2a	1519	MA6
32	2a	1520	G

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Mol	Chain	Res	Type
32	2a	1529	G
32	2a	1530	G
32	2a	1531	A
53	2v	13	A
53	2v	14	A
54	2w	2	G
54	2w	9	A
54	2w	13	C
54	2w	14	A
54	2w	19	G
54	2w	23	A
54	2w	34	CM0
54	2w	35	A
54	2w	46	7MG
54	2w	47	U
54	2w	49	G
54	2w	50	G
54	2w	51	C
54	2w	56	C
54	2w	57	G
54	2w	58	A
54	2w	59	U
54	2w	60	C
54	2w	61	C
54	2w	62	C
54	2w	68	C
54	2w	70	C
54	2w	74	C
55	2x	9	G
55	2x	13	C
55	2x	20	U
55	2x	21	A
55	2x	22	G
55	2x	47	U
55	2x	48	C
55	2x	52	G
55	2x	56	C
55	2x	68	C
55	2x	73	A
55	2x	76	A
54	2y	2	G
54	2y	5	G

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Mol	Chain	Res	Type
54	2y	6	A
54	2y	7	U
54	2y	8	4SU
54	2y	9	A
54	2y	13	C
54	2y	15	G
54	2y	19	G
54	2y	21	A
54	2y	23	A
54	2y	24	G
54	2y	26	A
54	2y	30	C
54	2y	32	C
54	2y	33	U
54	2y	34	CM0
54	2y	35	A
54	2y	37	6MZ
54	2y	41	A
54	2y	46	7MG
54	2y	49	G
54	2y	51	C
54	2y	52	G
54	2y	53	G
54	2y	54	5MU
54	2y	57	G
54	2y	58	A
54	2y	59	U
54	2y	61	C
54	2y	69	A
54	2y	70	C

All (52) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	115	G
1	1A	184	A
1	1A	185	A
1	1A	271	U
1	1A	302	A
1	1A	509	A
1	1A	572	A
1	1A	793	A

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Mol	Chain	Res	Type
1	1A	811	A
1	1A	913	A
1	1A	941	U
1	1A	1019	G
1	1A	1067	A
1	1A	1093	G
1	1A	1201	A
1	1A	1219	A
1	1A	1220	U
1	1A	1221	G
1	1A	1255	A
1	1A	1425	A
1	1A	1554	A
1	1A	1654	A
1	1A	1700	G
1	1A	2014	G
1	1A	2156	A
1	1A	2205	C
1	1A	2418	U
1	1A	2442	A
1	1A	2451	A
2	1B	1	U
1	2A	34	C
1	2A	196	A
1	2A	228	A
1	2A	266	G
1	2A	271(K)	U
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	752	A
1	2A	774	A
1	2A	827	U
1	2A	856	C
1	2A	900	A
1	2A	1210	A
1	2A	1379	A
1	2A	1420	U
1	2A	1442	G
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G

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Mol	Chain	Res	Type
1	2A	2689	U
1	2A	2756	U

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
32	MA6	1a	1518	32	23,26,27	1.56	5 (21%)	33,38,41	2.18	11 (33%)
54	6MZ	2w	37	54	22,25,26	1.55	4 (18%)	29,36,39	2.19	9 (31%)
55	PSU	1x	55	55	18,21,22	1.33	2 (11%)	21,30,33	2.11	4 (19%)
1	4OC	1A	1942	1	19,22,24	0.80	0	25,31,35	0.97	1 (4%)
56	ORD	A	5	56	6,7,8	0.50	0	2,7,9	0.61	0
54	7MG	2w	46	54	23,26,27	1.38	4 (17%)	27,39,42	2.54	7 (25%)
32	5MC	2a	1407	32,57	19,22,23	1.65	3 (15%)	26,32,35	1.15	3 (11%)
32	M2G	2a	966	32	24,27,28	1.33	4 (16%)	33,40,43	1.94	6 (18%)
55	5MC	2x	32	55	19,22,23	1.66	3 (15%)	26,32,35	1.21	3 (11%)
32	5MC	1a	967	32	19,22,23	1.51	3 (15%)	26,32,35	1.09	3 (11%)
1	OMG	1A	2263	55,1,57	23,26,27	1.24	3 (13%)	32,38,41	2.03	6 (18%)
56	IAR	B	7	56	10,11,11	1.88	2 (20%)	7,13,13	2.18	2 (28%)
32	4OC	1a	1402	32	20,23,24	0.74	0	25,32,35	0.99	2 (8%)
54	5MU	1w	54	54	19,22,23	1.37	5 (26%)	27,32,35	2.21	6 (22%)
56	EUP	C	2	56	4,7,8	0.52	0	4,8,10	1.44	1 (25%)
1	5MU	2A	1939	1	19,22,23	1.39	5 (26%)	27,32,35	2.42	6 (22%)
54	4SU	2w	8	54	18,21,22	1.74	4 (22%)	25,30,33	2.43	5 (20%)
32	5MC	1a	1407	32	19,22,23	1.68	3 (15%)	26,32,35	1.18	3 (11%)
54	PSU	2y	55	54	18,21,22	1.39	2 (11%)	21,30,33	2.01	3 (14%)
54	7MG	2y	46	54	23,26,27	1.39	3 (13%)	27,39,42	2.71	6 (22%)
54	7MG	1w	46	54	23,26,27	1.37	3 (13%)	27,39,42	2.59	7 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	6MZ	1y	37	54	22,25,26	1.58	3 (13%)	29,36,39	2.19	10 (34%)
54	7MG	1y	46	54	23,26,27	1.42	3 (13%)	27,39,42	2.69	6 (22%)
32	5MC	1a	1400	32	19,22,23	1.70	3 (15%)	26,32,35	1.16	2 (7%)
55	4SU	1x	8	55	18,21,22	2.17	4 (22%)	25,30,33	1.61	6 (24%)
1	4OC	2A	1920	1	19,22,24	0.78	0	25,31,35	1.03	1 (4%)
32	PSU	2a	516	32,57	18,21,22	1.35	2 (11%)	21,30,33	2.02	5 (23%)
54	CM0	2y	34	54	21,26,27	1.21	3 (14%)	26,37,40	1.84	4 (15%)
32	MA6	1a	1519	32	23,26,27	1.60	4 (17%)	33,38,41	2.29	11 (33%)
1	5MC	1A	1984	1,57	19,22,23	1.67	3 (15%)	26,32,35	1.12	1 (3%)
54	CM0	1y	34	54	21,26,27	1.25	3 (14%)	26,37,40	2.19	5 (19%)
55	4SU	2x	8	55	18,21,22	2.00	5 (27%)	25,30,33	1.35	5 (20%)
1	PSU	2A	1917	1	18,21,22	1.40	2 (11%)	21,30,33	2.12	4 (19%)
54	4SU	1w	8	54	18,21,22	1.78	4 (22%)	25,30,33	2.07	5 (20%)
56	ORD	B	3	56	6,7,8	0.52	0	2,7,9	0.49	0
1	2MA	1A	2515	1,57	22,25,26	1.41	4 (18%)	32,37,40	2.33	8 (25%)
56	EUP	A	2	56	4,7,8	0.55	0	4,8,10	1.00	0
1	2MU	2A	2552	1,57	19,22,24	1.29	3 (15%)	25,31,36	1.84	6 (24%)
32	UR3	1a	1498	32	19,22,23	1.05	2 (10%)	26,32,35	1.80	4 (15%)
54	6MZ	1w	37	54	22,25,26	1.54	5 (22%)	29,36,39	2.14	9 (31%)
54	5MU	2y	54	54	19,22,23	1.44	5 (26%)	27,32,35	2.15	6 (22%)
55	5MU	1x	54	55,57	19,22,23	1.45	5 (26%)	27,32,35	1.86	6 (22%)
1	5MU	1A	1961	1	19,22,23	1.38	4 (21%)	27,32,35	2.25	6 (22%)
55	5MU	2x	54	55	19,22,23	1.43	4 (21%)	27,32,35	2.10	6 (22%)
1	2MA	2A	2503	1	22,25,26	1.48	4 (18%)	32,37,40	2.29	8 (25%)
32	2MG	2a	1207	32	23,26,27	1.26	3 (13%)	33,38,41	2.19	7 (21%)
1	2MU	1A	2564	1	19,22,24	1.19	3 (15%)	25,31,36	1.98	6 (24%)
54	CM0	2w	34	54	21,26,27	1.16	2 (9%)	26,37,40	1.77	5 (19%)
54	4SU	2y	8	54	18,21,22	1.70	4 (22%)	25,30,33	2.21	5 (20%)
56	ORD	C	5	56,32	6,7,8	1.23	1 (16%)	2,7,9	0.78	0
1	OMG	2A	2251	55,1,57	23,26,27	1.20	3 (13%)	32,38,41	1.93	6 (18%)
1	5MU	1A	1937	1	19,22,23	1.42	5 (26%)	27,32,35	2.11	7 (25%)
32	7MG	2a	527	32,57	23,26,27	1.34	4 (17%)	27,39,42	2.54	6 (22%)
56	IAR	A	9	56	10,11,11	1.86	3 (30%)	7,13,13	2.78	1 (14%)
32	5MC	2a	1404	32	19,22,23	1.77	3 (15%)	26,32,35	1.21	3 (11%)
1	PSU	2A	1911	1	18,21,22	1.36	2 (11%)	21,30,33	1.99	3 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	4OC	2a	1402	32,57	20,23,24	0.79	0	25,32,35	1.08	3 (12%)
54	5MU	1y	54	54	19,22,23	1.45	5 (26%)	27,32,35	2.12	6 (22%)
32	5MC	1a	1404	32	19,22,23	1.48	3 (15%)	26,32,35	1.03	2 (7%)
1	PSU	1A	1939	1	18,21,22	1.40	2 (11%)	21,30,33	1.88	4 (19%)
54	PSU	1y	55	54	18,21,22	1.33	2 (11%)	21,30,33	2.09	4 (19%)
32	5MC	2a	1400	32	19,22,23	1.71	3 (15%)	26,32,35	1.18	3 (11%)
1	PSU	1A	1933	1	18,21,22	1.38	3 (16%)	21,30,33	2.01	4 (19%)
54	4SU	1y	8	54	18,21,22	1.85	4 (22%)	25,30,33	1.98	5 (20%)
43	0TD	1l	92	43	8,9,10	4.59	1 (12%)	6,11,13	5.05	2 (33%)
54	5MU	2w	54	54	19,22,23	1.41	4 (21%)	27,32,35	1.94	6 (22%)
55	PSU	2x	55	55	18,21,22	1.36	2 (11%)	21,30,33	2.12	5 (23%)
32	MA6	2a	1519	32	23,26,27	1.59	4 (17%)	33,38,41	2.27	12 (36%)
54	PSU	2w	55	54	18,21,22	1.41	2 (11%)	21,30,33	1.95	4 (19%)
32	PSU	1a	516	32	18,21,22	1.40	2 (11%)	21,30,33	2.04	5 (23%)
54	PSU	1w	55	54	18,21,22	1.39	1 (5%)	21,30,33	1.95	4 (19%)
32	MA6	2a	1518	32	23,26,27	1.61	4 (17%)	33,38,41	2.30	13 (39%)
1	5MC	2A	1942	1	19,22,23	1.62	3 (15%)	26,32,35	1.15	2 (7%)
1	5MC	2A	1962	1,57	19,22,23	1.63	3 (15%)	26,32,35	1.23	2 (7%)
1	PSU	1A	2617	1	18,21,22	1.39	3 (16%)	21,30,33	2.16	5 (23%)
32	7MG	1a	527	32,57	23,26,27	1.40	3 (13%)	27,39,42	2.54	6 (22%)
1	5MU	2A	1915	1	19,22,23	1.44	4 (21%)	27,32,35	2.05	6 (22%)
32	M2G	1a	966	32	24,27,28	1.32	4 (16%)	33,40,43	1.92	5 (15%)
56	IAR	C	9	54,56	10,11,11	1.81	2 (20%)	7,13,13	1.64	2 (28%)
54	CM0	1w	34	54	21,26,27	1.11	2 (9%)	26,37,40	1.88	5 (19%)
54	6MZ	2y	37	54,32	22,25,26	1.59	4 (18%)	29,36,39	2.16	9 (31%)
55	5MC	1x	32	55,57	19,22,23	1.69	3 (15%)	26,32,35	1.31	3 (11%)
43	0TD	2l	92	43	8,9,10	4.65	1 (12%)	6,11,13	7.24	3 (50%)
1	PSU	2A	2605	1	18,21,22	1.35	2 (11%)	21,30,33	1.94	4 (19%)
32	5MC	2a	967	32	19,22,23	1.79	3 (15%)	26,32,35	1.15	2 (7%)
1	5MC	1A	1964	1	19,22,23	1.54	3 (15%)	26,32,35	1.09	2 (7%)
32	UR3	2a	1498	32	19,22,23	1.07	2 (10%)	26,32,35	1.61	4 (15%)
32	2MG	1a	1207	32	23,26,27	1.23	2 (8%)	33,38,41	2.27	9 (27%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.
 '-'- means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	1a	1518	32	-	2/11/29/30	0/3/3/3
54	6MZ	2w	37	54	-	0/9/27/28	0/3/3/3
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
1	4OC	1A	1942	1	-	1/9/27/30	0/2/2/2
56	ORD	A	5	56	-	2/5/6/8	-
54	7MG	2w	46	54	-	2/7/37/38	0/3/3/3
32	5MC	2a	1407	32,57	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
1	OMG	1A	2263	55,1,57	-	1/9/27/28	0/3/3/3
56	IAR	B	7	56	-	2/8/11/11	-
32	4OC	1a	1402	32	-	1/9/29/30	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
56	EUP	C	2	56	-	3/7/8/10	-
1	5MU	2A	1939	1	-	0/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	1/7/25/26	0/2/2/2
54	7MG	2y	46	54	-	2/7/37/38	0/3/3/3
54	7MG	1w	46	54	-	2/7/37/38	0/3/3/3
54	6MZ	1y	37	54	-	0/9/27/28	0/3/3/3
54	7MG	1y	46	54	-	5/7/37/38	0/3/3/3
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
1	4OC	2A	1920	1	-	1/9/27/30	0/2/2/2
32	PSU	2a	516	32,57	-	0/7/25/26	0/2/2/2
54	CM0	2y	34	54	-	3/12/30/31	0/2/2/2
32	MA6	1a	1519	32	-	4/11/29/30	0/3/3/3
1	5MC	1A	1984	1,57	-	0/7/25/26	0/2/2/2
54	CM0	1y	34	54	-	2/12/30/31	0/2/2/2
55	4SU	2x	8	55	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	1/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
56	ORD	B	3	56	-	4/5/6/8	-
1	2MA	1A	2515	1,57	-	1/7/25/26	0/3/3/3
56	EUP	A	2	56	-	1/7/8/10	-
1	2MU	2A	2552	1,57	-	0/9/27/28	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
54	6MZ	1w	37	54	-	0/9/27/28	0/3/3/3
54	5MU	2y	54	54	-	2/7/25/26	0/2/2/2
55	5MU	1x	54	55,57	-	0/7/25/26	0/2/2/2
1	5MU	1A	1961	1	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
1	2MA	2A	2503	1	-	1/7/25/26	0/3/3/3
32	2MG	2a	1207	32	-	2/9/27/28	0/3/3/3
1	2MU	1A	2564	1	-	0/9/27/28	0/2/2/2
54	CM0	2w	34	54	-	7/12/30/31	0/2/2/2
54	4SU	2y	8	54	-	1/7/25/26	0/2/2/2
56	ORD	C	5	56,32	-	3/5/6/8	-
1	OMG	2A	2251	55,1,57	-	0/9/27/28	0/3/3/3
1	5MU	1A	1937	1	-	0/7/25/26	0/2/2/2
32	7MG	2a	527	32,57	-	3/7/37/38	0/3/3/3
56	IAR	A	9	56	-	2/8/11/11	-
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	32,57	-	3/9/29/30	0/2/2/2
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
1	PSU	1A	1939	1	-	0/7/25/26	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
1	PSU	1A	1933	1	-	0/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	1/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	1/7/12/14	-
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
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
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	2/11/29/30	0/3/3/3
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	1,57	-	0/7/25/26	0/2/2/2
1	PSU	1A	2617	1	-	0/7/25/26	0/2/2/2
32	7MG	1a	527	32,57	-	3/7/37/38	0/3/3/3
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	IAR	C	9	54,56	-	2/8/11/11	-
54	CM0	1w	34	54	-	7/12/30/31	0/2/2/2
54	6MZ	2y	37	54,32	-	1/9/27/28	0/3/3/3
55	5MC	1x	32	55,57	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	2/7/12/14	-
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
1	5MC	1A	1964	1	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
32	2MG	1a	1207	32	-	0/9/27/28	0/3/3/3

All (252) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.82	1.69	1.82
43	1l	92	0TD	CB-SB	-12.57	1.69	1.82
32	2a	967	5MC	C5-C4	6.71	1.49	1.44
32	2a	1404	5MC	C5-C4	6.63	1.49	1.44
32	2a	1400	5MC	C5-C4	6.33	1.48	1.44
32	1a	1400	5MC	C5-C4	6.24	1.48	1.44
1	1A	1984	5MC	C5-C4	6.16	1.48	1.44
32	1a	1407	5MC	C5-C4	6.15	1.48	1.44
55	1x	32	5MC	C5-C4	5.96	1.48	1.44
32	2a	1407	5MC	C5-C4	5.91	1.48	1.44
1	2A	1962	5MC	C5-C4	5.85	1.48	1.44
55	2x	32	5MC	C5-C4	5.83	1.48	1.44
1	2A	1942	5MC	C5-C4	5.78	1.48	1.44
1	1A	1964	5MC	C5-C4	5.49	1.48	1.44
32	1a	967	5MC	C5-C4	5.27	1.48	1.44
54	2y	37	6MZ	C5-C4	5.20	1.48	1.39
32	2a	1518	MA6	C5-C4	5.06	1.48	1.39
32	1a	1404	5MC	C5-C4	5.04	1.47	1.44
54	1y	37	6MZ	C5-C4	5.00	1.48	1.39
32	2a	1519	MA6	C5-C4	4.94	1.47	1.39
54	2w	37	6MZ	C5-C4	4.91	1.47	1.39
54	2w	8	4SU	C4-S4	-4.90	1.60	1.68
32	1a	1519	MA6	C5-C4	4.88	1.47	1.39
54	1w	8	4SU	C4-S4	-4.88	1.60	1.68
54	1y	8	4SU	C4-S4	-4.82	1.60	1.68
55	1x	8	4SU	C4-N3	-4.82	1.32	1.37
54	1w	37	6MZ	C5-C4	4.79	1.47	1.39
32	1a	1518	MA6	C5-C4	4.76	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	B	7	IAR	CA-N	4.69	1.38	1.27
54	2y	8	4SU	C4-S4	-4.62	1.60	1.68
55	1x	8	4SU	C4-S4	-4.61	1.60	1.68
55	2x	8	4SU	C4-N3	-4.57	1.32	1.37
56	C	9	IAR	CA-N	4.53	1.37	1.27
54	2w	55	PSU	C6-C5	4.51	1.40	1.35
1	2A	2503	2MA	C5-C4	4.49	1.47	1.39
54	1w	55	PSU	C6-C5	4.44	1.40	1.35
55	2x	8	4SU	C4-S4	-4.34	1.61	1.68
55	1x	8	4SU	C2-N3	-4.26	1.30	1.38
56	A	9	IAR	CA-N	4.25	1.37	1.27
1	1A	2515	2MA	C5-C4	4.04	1.46	1.39
54	2y	55	PSU	C6-C5	3.87	1.39	1.35
54	1y	46	7MG	C5-C4	3.74	1.49	1.37
1	2A	1917	PSU	C6-C5	3.64	1.39	1.35
55	2x	55	PSU	C6-C5	3.64	1.39	1.35
54	1y	55	PSU	C6-C5	3.58	1.39	1.35
54	2y	46	7MG	C5-C4	3.56	1.48	1.37
32	2a	516	PSU	C6-C5	3.54	1.39	1.35
32	1a	527	7MG	C4-N9	-3.52	1.33	1.37
32	1a	516	PSU	C6-C5	3.49	1.39	1.35
54	2w	46	7MG	C5-C4	3.48	1.48	1.37
1	2A	2605	PSU	C6-C5	3.45	1.39	1.35
54	1y	8	4SU	C4-N3	-3.43	1.34	1.37
1	1A	1939	PSU	C6-C5	3.41	1.39	1.35
54	1w	46	7MG	C5-C4	3.40	1.48	1.37
32	2a	1207	2MG	C5-C4	3.36	1.48	1.38
32	2a	527	7MG	C5-C4	3.33	1.47	1.37
32	1a	527	7MG	C5-C4	3.32	1.47	1.37
55	1x	55	PSU	C6-C5	3.32	1.39	1.35
55	2x	8	4SU	C2-N3	-3.32	1.32	1.38
54	1w	46	7MG	C4-N9	-3.32	1.33	1.37
1	2A	1911	PSU	C6-C5	3.29	1.38	1.35
32	2a	1518	MA6	C5-C6	3.28	1.49	1.41
55	1x	8	4SU	C5-C4	-3.25	1.38	1.42
32	2a	966	M2G	C5-C4	3.22	1.47	1.38
32	1a	966	M2G	C5-C4	3.21	1.47	1.38
1	1A	1933	PSU	C6-C5	3.17	1.38	1.35
55	1x	32	5MC	C6-C5	3.15	1.39	1.34
54	2w	46	7MG	C4-N9	-3.14	1.34	1.37
32	2a	1519	MA6	C5-C6	3.10	1.49	1.41
32	1a	1518	MA6	C5-C6	3.08	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1y	37	6MZ	C5-C6	3.08	1.49	1.41
1	2A	2251	OMG	C5-C4	3.07	1.47	1.38
1	2A	1915	5MU	C6-C5	3.02	1.39	1.34
54	2w	54	5MU	C6-C5	3.02	1.39	1.34
1	2A	2552	2MU	C4-N3	-3.00	1.33	1.38
32	2a	966	M2G	C2-N2	2.99	1.40	1.35
1	1A	1961	5MU	C4-N3	-2.99	1.33	1.38
54	1y	54	5MU	C6-C5	2.98	1.39	1.34
54	2y	37	6MZ	C5-C6	2.97	1.49	1.41
55	2x	54	5MU	C6-C5	2.96	1.39	1.34
1	1A	2263	OMG	C5-C4	2.96	1.46	1.38
54	2y	54	5MU	C6-C5	2.96	1.39	1.34
54	2w	37	6MZ	C5-C6	2.95	1.49	1.41
55	1x	54	5MU	C6-C5	2.95	1.39	1.34
55	2x	32	5MC	C6-C5	2.92	1.39	1.34
55	1x	54	5MU	C4-N3	-2.92	1.33	1.38
32	1a	1207	2MG	C5-C4	2.91	1.46	1.38
55	2x	8	4SU	C5-C4	-2.88	1.39	1.42
1	1A	2617	PSU	C4-N3	-2.88	1.33	1.38
54	2y	34	CM0	C2-N1	2.87	1.43	1.38
54	1w	8	4SU	C4-N3	-2.85	1.34	1.37
54	1y	34	CM0	C4-N3	-2.85	1.33	1.38
32	2a	1407	5MC	C6-C5	2.85	1.39	1.34
1	1A	1933	PSU	C4-N3	-2.84	1.33	1.38
54	1w	37	6MZ	C5-C6	2.83	1.48	1.41
32	1a	967	5MC	C6-C5	2.82	1.39	1.34
54	1y	34	CM0	C2-N1	2.82	1.42	1.38
32	1a	1519	MA6	C5-C6	2.82	1.48	1.41
1	1A	1937	5MU	C4-N3	-2.81	1.33	1.38
54	1w	54	5MU	C6-C5	2.81	1.39	1.34
32	2a	527	7MG	C4-N9	-2.80	1.34	1.37
32	1a	1407	5MC	C6-C5	2.75	1.39	1.34
1	1A	1937	5MU	C6-C5	2.74	1.39	1.34
32	1a	1404	5MC	C6-C5	2.74	1.39	1.34
1	2A	1939	5MU	C6-C5	2.74	1.39	1.34
1	1A	2617	PSU	C6-C5	2.74	1.38	1.35
1	2A	1942	5MC	C6-C5	2.74	1.39	1.34
1	2A	1939	5MU	C4-N3	-2.72	1.33	1.38
32	2a	1400	5MC	C6-C5	2.72	1.39	1.34
1	1A	1939	PSU	C4-N3	-2.71	1.33	1.38
32	1a	516	PSU	C4-N3	-2.71	1.33	1.38
32	2a	967	5MC	C6-C5	2.70	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	966	M2G	C2-N2	2.69	1.40	1.35
1	1A	1964	5MC	C6-C5	2.69	1.39	1.34
54	2y	8	4SU	C5-C4	-2.68	1.39	1.42
1	1A	1984	5MC	C6-C5	2.67	1.39	1.34
1	2A	1911	PSU	C4-N3	-2.66	1.33	1.38
1	2A	1915	5MU	C4-N3	-2.66	1.33	1.38
32	1a	1207	2MG	C6-N1	-2.66	1.33	1.38
54	2y	54	5MU	C4-C5	2.64	1.49	1.44
54	2w	8	4SU	C4-N3	-2.64	1.34	1.37
32	1a	1400	5MC	C6-C5	2.64	1.38	1.34
32	1a	966	M2G	C6-N1	-2.63	1.33	1.38
54	2y	34	CM0	C4-N3	-2.63	1.33	1.38
1	2A	1915	5MU	C4-C5	2.62	1.49	1.44
1	1A	2564	2MU	C4-N3	-2.62	1.34	1.38
55	2x	54	5MU	C4-C5	2.62	1.49	1.44
54	2w	54	5MU	C4-N3	-2.61	1.34	1.38
54	2w	34	CM0	C4-N3	-2.61	1.34	1.38
1	1A	2263	OMG	C6-N1	-2.59	1.34	1.38
1	1A	2515	2MA	C5-N7	-2.59	1.34	1.39
32	2a	1404	5MC	C6-C5	2.59	1.38	1.34
54	1w	8	4SU	C5-C4	-2.57	1.39	1.42
54	1y	54	5MU	C2-N1	2.57	1.42	1.38
1	1A	1961	5MU	C6-N1	-2.56	1.33	1.38
1	2A	1917	PSU	C4-N3	-2.56	1.34	1.38
55	2x	54	5MU	C4-N3	-2.56	1.34	1.38
1	1A	1961	5MU	C6-C5	2.55	1.38	1.34
54	1y	8	4SU	C5-C4	-2.55	1.39	1.42
54	1y	8	4SU	C2-N1	2.54	1.42	1.38
32	2a	527	7MG	C6-N1	-2.53	1.34	1.38
32	1a	1519	MA6	C5-N7	-2.52	1.34	1.39
1	2A	1962	5MC	C6-C5	2.51	1.38	1.34
54	1y	37	6MZ	C8-N7	2.51	1.36	1.31
54	1y	46	7MG	C8-N9	2.50	1.47	1.45
54	1y	54	5MU	C4-C5	2.50	1.48	1.44
55	2x	55	PSU	C4-N3	-2.50	1.34	1.38
54	2y	46	7MG	C8-N9	2.49	1.47	1.45
1	2A	2605	PSU	C4-N3	-2.48	1.34	1.38
54	2w	8	4SU	C2-N1	2.48	1.42	1.38
54	2w	37	6MZ	C8-N7	2.48	1.36	1.31
1	2A	2251	OMG	C6-N1	-2.48	1.34	1.38
55	1x	55	PSU	C4-N3	-2.48	1.34	1.38
54	1y	46	7MG	C6-N1	-2.47	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	2x	54	5MU	C2-N1	2.47	1.42	1.38
56	C	5	ORD	CB-CA	2.47	1.57	1.53
1	2A	1939	5MU	C6-N1	-2.47	1.33	1.38
1	2A	1962	5MC	C6-N1	-2.46	1.33	1.38
1	1A	2617	PSU	C2-N3	-2.45	1.33	1.37
54	2y	8	4SU	C4-N3	-2.45	1.35	1.37
54	2y	54	5MU	C4-N3	-2.43	1.34	1.38
32	2a	1519	MA6	C8-N7	2.43	1.36	1.31
54	1w	37	6MZ	C8-N7	2.42	1.36	1.31
54	1y	54	5MU	C4-N3	-2.42	1.34	1.38
54	2w	34	CM0	C2-N1	2.42	1.42	1.38
54	1w	54	5MU	C4-C5	2.41	1.48	1.44
54	1w	8	4SU	C2-N1	2.41	1.42	1.38
54	2y	8	4SU	C2-N1	2.41	1.42	1.38
1	2A	2503	2MA	C5-N7	-2.41	1.34	1.39
32	2a	966	M2G	C6-N1	-2.40	1.34	1.38
56	B	7	IAR	CB-CA	2.40	1.56	1.50
54	1w	34	CM0	C4-N3	-2.40	1.34	1.38
54	2y	54	5MU	C2-N1	2.40	1.42	1.38
54	2w	54	5MU	C2-N1	2.39	1.42	1.38
32	2a	516	PSU	C4-N3	-2.38	1.34	1.38
56	A	9	IAR	OXT-C	-2.37	1.24	1.30
54	2y	37	6MZ	C8-N7	2.37	1.36	1.31
32	1a	1498	UR3	C2-N1	2.37	1.41	1.38
55	1x	54	5MU	C2-N3	-2.37	1.33	1.38
54	1y	55	PSU	C4-N3	-2.36	1.34	1.38
1	2A	1942	5MC	C6-N1	-2.36	1.34	1.38
54	2y	46	7MG	C6-N1	-2.36	1.34	1.38
32	1a	1518	MA6	C8-N7	2.35	1.36	1.31
1	2A	2503	2MA	C8-N7	2.35	1.36	1.31
1	1A	1937	5MU	C4-C5	2.35	1.48	1.44
54	2w	8	4SU	C5-C4	-2.34	1.39	1.42
1	1A	1961	5MU	C2-N3	-2.34	1.33	1.38
1	1A	1937	5MU	C2-N1	2.33	1.42	1.38
32	1a	527	7MG	C6-N1	-2.33	1.34	1.38
1	1A	2515	2MA	C4-N9	-2.33	1.32	1.37
32	2a	1518	MA6	C8-N7	2.33	1.36	1.31
54	1w	54	5MU	C4-N3	-2.33	1.34	1.38
32	1a	1519	MA6	C8-N7	2.32	1.36	1.31
32	2a	1498	UR3	C2-N1	2.32	1.41	1.38
1	2A	2552	2MU	C2-N3	-2.32	1.33	1.38
54	1w	37	6MZ	C5-N7	-2.32	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	1400	5MC	C6-N1	-2.31	1.34	1.38
1	2A	1915	5MU	C2-N1	2.31	1.42	1.38
32	2a	1400	5MC	C6-N1	-2.28	1.34	1.38
1	2A	1939	5MU	C4-C5	2.28	1.48	1.44
1	2A	2503	2MA	C5-C6	2.28	1.47	1.41
32	2a	1404	5MC	C6-N1	-2.27	1.34	1.38
1	1A	2263	OMG	C5-N7	-2.26	1.34	1.39
1	2A	1939	5MU	C2-N3	-2.25	1.34	1.38
1	1A	1964	5MC	C6-N1	-2.24	1.34	1.38
32	2a	966	M2G	C5-N7	-2.23	1.34	1.39
54	1w	34	CM0	C2-N1	2.23	1.42	1.38
55	1x	54	5MU	C4-C5	2.22	1.48	1.44
1	2A	2251	OMG	C5-N7	-2.21	1.34	1.39
1	1A	1984	5MC	C6-N1	-2.21	1.34	1.38
56	C	9	IAR	CB-CA	2.21	1.56	1.50
32	1a	1518	MA6	C4-N9	-2.19	1.33	1.37
32	2a	1207	2MG	C6-N1	-2.18	1.34	1.38
55	1x	32	5MC	C6-N1	-2.18	1.34	1.38
54	2y	55	PSU	C4-N3	-2.18	1.34	1.38
56	A	9	IAR	CB-CA	2.17	1.56	1.50
54	2y	37	6MZ	C5-N7	-2.16	1.35	1.39
54	1y	54	5MU	C6-N1	-2.15	1.34	1.38
54	2w	54	5MU	C4-C5	2.15	1.48	1.44
32	1a	1404	5MC	C6-N1	-2.15	1.34	1.38
32	1a	1518	MA6	C5-N7	-2.15	1.35	1.39
54	2w	37	6MZ	C5-N7	-2.14	1.35	1.39
54	2w	46	7MG	C8-N9	2.14	1.47	1.45
1	1A	1937	5MU	C2-N3	-2.13	1.34	1.38
32	1a	966	M2G	C5-N7	-2.13	1.34	1.39
32	1a	1407	5MC	C6-N1	-2.12	1.34	1.38
54	2y	54	5MU	C6-N1	-2.12	1.34	1.38
1	1A	2564	2MU	C5-C4	2.11	1.48	1.43
1	1A	2515	2MA	C5-C6	2.11	1.46	1.41
32	2a	967	5MC	C6-N1	-2.11	1.34	1.38
54	1w	54	5MU	C6-N1	-2.10	1.34	1.38
54	1w	46	7MG	C6-N1	-2.10	1.34	1.38
32	1a	967	5MC	C6-N1	-2.09	1.34	1.38
55	2x	32	5MC	C6-N1	-2.09	1.34	1.38
32	2a	1519	MA6	C5-N7	-2.09	1.35	1.39
32	2a	1518	MA6	C5-N7	-2.07	1.35	1.39
55	1x	54	5MU	C2-N1	2.07	1.41	1.38
54	2w	46	7MG	C6-N1	-2.07	1.35	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1y	34	CM0	C2-N3	-2.06	1.34	1.38
32	2a	527	7MG	C5-C6	2.06	1.48	1.43
32	1a	1498	UR3	C6-C5	2.06	1.39	1.35
54	1w	54	5MU	C2-N1	2.05	1.41	1.38
54	2w	55	PSU	C4-N3	-2.04	1.35	1.38
55	2x	8	4SU	C6-C5	2.03	1.39	1.35
54	2y	34	CM0	C2-N3	-2.03	1.34	1.38
1	1A	2564	2MU	C2-N3	-2.03	1.34	1.38
1	1A	1933	PSU	C2-N3	-2.02	1.34	1.37
32	2a	1407	5MC	C6-N1	-2.02	1.34	1.38
54	1w	37	6MZ	C4-N9	-2.01	1.33	1.37
32	2a	1498	UR3	C6-C5	2.01	1.39	1.35
1	2A	2552	2MU	C5-C4	2.01	1.48	1.43
32	2a	1207	2MG	C5-N7	-2.00	1.35	1.39

All (418) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	2l	92	0TD	CSB-SB-CB	-17.23	71.40	102.36
43	1l	92	0TD	CSB-SB-CB	-11.72	81.30	102.36
54	1y	46	7MG	N9-C4-N3	9.67	139.64	125.46
54	2y	46	7MG	N9-C4-N3	9.61	139.54	125.46
54	1w	46	7MG	N9-C4-N3	8.64	138.11	125.46
54	2w	46	7MG	N9-C4-N3	8.61	138.08	125.46
32	1a	527	7MG	N9-C4-N3	8.61	138.07	125.46
32	2a	527	7MG	N9-C4-N3	8.49	137.90	125.46
1	2A	2503	2MA	C5-C4-N3	-7.96	118.79	127.18
1	1A	2515	2MA	C5-C4-N3	-7.61	119.17	127.18
54	2w	8	4SU	C4-N3-C2	-7.54	120.09	127.31
32	1a	1498	UR3	C4-N3-C2	-7.10	118.86	124.58
32	1a	1207	2MG	C2-N3-C4	7.04	120.81	112.00
32	2a	1207	2MG	C2-N3-C4	6.94	120.68	112.00
56	A	9	IAR	CG-CB-CA	6.89	127.65	113.52
1	2A	1917	PSU	N1-C2-N3	6.81	122.36	115.17
1	1A	2617	PSU	N1-C2-N3	6.81	122.35	115.17
55	2x	55	PSU	N1-C2-N3	6.64	122.17	115.17
54	1y	34	CM0	C7-O5-C5	6.59	125.88	117.48
32	2a	966	M2G	C5-C4-N3	-6.54	117.97	128.39
54	1y	55	PSU	N1-C2-N3	6.53	122.05	115.17
1	2A	2503	2MA	N3-C4-N9	6.46	135.18	126.99
1	1A	2515	2MA	N3-C4-N9	6.43	135.14	126.99
32	1a	516	PSU	N1-C2-N3	6.42	121.94	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	966	M2G	C5-C4-N3	-6.42	118.18	128.39
1	1A	1933	PSU	N1-C2-N3	6.41	121.93	115.17
55	1x	55	PSU	N1-C2-N3	6.39	121.91	115.17
54	2w	8	4SU	C5-C4-N3	6.26	120.57	114.75
32	2a	516	PSU	N1-C2-N3	6.25	121.76	115.17
54	2y	55	PSU	N1-C2-N3	6.18	121.69	115.17
1	2A	1911	PSU	N1-C2-N3	6.09	121.59	115.17
1	2A	1939	5MU	C4-N3-C2	-6.09	119.36	127.34
54	2y	37	6MZ	C5-C4-N3	-6.08	118.35	126.72
32	2a	1498	UR3	C4-N3-C2	-6.05	119.71	124.58
32	1a	1207	2MG	C5-C4-N3	-5.94	118.93	128.39
1	1A	2263	OMG	C5-C4-N3	-5.93	118.95	128.39
54	2w	37	6MZ	C5-C4-N3	-5.92	118.56	126.72
1	2A	2251	OMG	C5-C4-N3	-5.89	119.01	128.39
1	2A	2605	PSU	N1-C2-N3	5.86	121.35	115.17
54	1w	8	4SU	C4-N3-C2	-5.84	121.71	127.31
32	1a	1519	MA6	C5-C4-N3	-5.81	118.71	126.72
54	1w	37	6MZ	C5-C4-N3	-5.78	118.76	126.72
1	1A	1939	PSU	N1-C2-N3	5.77	121.25	115.17
32	2a	1207	2MG	C5-C4-N3	-5.76	119.23	128.39
1	2A	1939	5MU	N3-C2-N1	5.76	122.38	114.89
54	2w	55	PSU	N1-C2-N3	5.76	121.24	115.17
54	2y	8	4SU	C4-N3-C2	-5.71	121.84	127.31
54	2y	46	7MG	C5-C4-N3	-5.69	117.45	128.13
54	1w	8	4SU	C5-C4-N3	5.64	120.00	114.75
54	1y	37	6MZ	C5-C4-N3	-5.63	118.96	126.72
54	1y	8	4SU	C4-N3-C2	-5.60	121.95	127.31
32	2a	1519	MA6	C5-C4-N3	-5.55	119.08	126.72
55	2x	54	5MU	N3-C2-N1	5.54	122.10	114.89
54	1y	34	CM0	N3-C2-N1	5.54	122.10	114.89
32	2a	527	7MG	N9-C8-N7	-5.53	95.54	103.37
1	2A	1915	5MU	N3-C2-N1	5.48	122.03	114.89
1	1A	1961	5MU	C4-N3-C2	-5.47	120.16	127.34
1	1A	1937	5MU	N3-C2-N1	5.47	122.01	114.89
54	1w	46	7MG	N9-C8-N7	-5.44	95.67	103.37
54	2y	54	5MU	C4-N3-C2	-5.41	120.25	127.34
32	2a	1518	MA6	C5-C4-N3	-5.38	119.31	126.72
54	2w	46	7MG	N9-C8-N7	-5.38	95.75	103.37
54	1w	54	5MU	C4-N3-C2	-5.36	120.31	127.34
54	2w	34	CM0	N3-C2-N1	5.35	121.85	114.89
54	1y	46	7MG	C5-C4-N3	-5.34	118.11	128.13
54	2y	34	CM0	N3-C2-N1	5.33	121.83	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	54	5MU	N3-C2-N1	5.32	121.82	114.89
32	1a	527	7MG	C5-C4-N3	-5.29	118.19	128.13
54	1w	55	PSU	N1-C2-N3	5.29	120.74	115.17
54	1w	34	CM0	N3-C2-N1	5.28	121.76	114.89
54	1y	54	5MU	C4-N3-C2	-5.28	120.42	127.34
54	2y	8	4SU	C5-C4-N3	5.27	119.65	114.75
32	2a	527	7MG	C5-C4-N3	-5.22	118.33	128.13
54	1y	34	CM0	C4-N3-C2	-5.21	120.51	127.34
1	1A	2263	OMG	C2-N3-C4	5.21	121.27	112.30
32	1a	527	7MG	N9-C8-N7	-5.20	96.02	103.37
1	1A	1961	5MU	C5-C4-N3	5.15	119.80	115.32
32	2a	966	M2G	N9-C4-N3	5.13	136.21	125.95
32	1a	1518	MA6	C5-C4-N3	-5.12	119.66	126.72
55	2x	54	5MU	C4-N3-C2	-5.06	120.71	127.34
1	2A	2552	2MU	N3-C2-N1	5.05	121.46	114.89
1	1A	1937	5MU	C4-N3-C2	-5.04	120.74	127.34
54	1y	8	4SU	C5-C4-N3	5.03	119.43	114.75
54	1w	46	7MG	C5-C4-N3	-5.01	118.72	128.13
54	2y	54	5MU	N3-C2-N1	4.98	121.38	114.89
1	2A	1915	5MU	C4-N3-C2	-4.98	120.81	127.34
54	1w	54	5MU	N3-C2-N1	4.97	121.36	114.89
1	1A	2564	2MU	N3-C2-N1	4.96	121.35	114.89
54	2w	34	CM0	C4-N3-C2	-4.96	120.84	127.34
1	2A	1939	5MU	C5-C4-N3	4.95	119.63	115.32
54	1w	34	CM0	C4-N3-C2	-4.94	120.86	127.34
54	2w	46	7MG	C5-C4-N3	-4.92	118.89	128.13
32	2a	1518	MA6	C9-N6-C6	-4.90	108.06	120.52
54	2y	37	6MZ	N3-C4-N9	4.90	135.50	127.17
1	1A	1961	5MU	N3-C2-N1	4.86	121.22	114.89
54	2y	34	CM0	C4-N3-C2	-4.84	120.99	127.34
54	2w	54	5MU	N3-C2-N1	4.84	121.19	114.89
54	2y	54	5MU	C5-C4-N3	4.84	119.53	115.32
1	2A	2251	OMG	C2-N3-C4	4.83	120.61	112.30
54	1y	46	7MG	N9-C8-N7	-4.82	96.54	103.37
54	2y	46	7MG	N9-C8-N7	-4.77	96.62	103.37
1	1A	2564	2MU	C4-N3-C2	-4.76	120.70	126.61
55	1x	54	5MU	N3-C2-N1	4.72	121.03	114.89
32	1a	966	M2G	N9-C4-N3	4.71	135.37	125.95
32	2a	966	M2G	C2-N3-C4	4.67	121.14	112.51
1	2A	1939	5MU	O4-C4-C5	-4.67	119.58	124.92
54	2y	46	7MG	C2-N3-C4	4.63	120.28	112.30
54	2y	8	4SU	C5-C4-S4	-4.63	119.01	124.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2263	OMG	N9-C4-N3	4.62	135.20	125.95
54	2w	37	6MZ	N3-C4-N9	4.62	135.02	127.17
32	1a	966	M2G	C2-N3-C4	4.58	120.98	112.51
54	2w	54	5MU	C4-N3-C2	-4.56	121.36	127.34
1	1A	2617	PSU	C4-N3-C2	-4.56	120.09	126.37
1	2A	2251	OMG	N9-C4-N3	4.55	135.05	125.95
56	B	7	IAR	CG-CB-CA	4.51	122.77	113.52
32	1a	1519	MA6	N3-C4-N9	4.51	134.84	127.17
55	1x	32	5MC	C5-C6-N1	-4.47	118.45	123.31
32	2a	1518	MA6	C4-C5-N7	-4.47	105.47	110.58
32	1a	1518	MA6	C2-N1-C6	4.45	122.69	111.83
54	2y	34	CM0	C7-O5-C5	4.44	123.14	117.48
54	1w	54	5MU	O4-C4-C5	-4.42	119.86	124.92
54	1y	46	7MG	C2-N3-C4	4.42	119.91	112.30
1	2A	1939	5MU	C5-C6-N1	-4.41	118.52	123.31
32	2a	1518	MA6	C2-N1-C6	4.41	122.60	111.83
1	2A	2552	2MU	C4-N3-C2	-4.41	121.14	126.61
32	1a	527	7MG	C2-N3-C4	4.40	119.88	112.30
54	1y	37	6MZ	N3-C4-N9	4.40	134.65	127.17
54	1y	54	5MU	C5-C4-N3	4.39	119.14	115.32
1	1A	1961	5MU	O4-C4-C5	-4.36	119.92	124.92
55	2x	55	PSU	C4-N3-C2	-4.36	120.36	126.37
54	1w	37	6MZ	N3-C4-N9	4.33	134.53	127.17
54	1w	54	5MU	C5-C4-N3	4.32	119.08	115.32
55	1x	55	PSU	C4-N3-C2	-4.31	120.44	126.37
1	1A	1937	5MU	C5-C4-N3	4.29	119.05	115.32
55	1x	54	5MU	C4-N3-C2	-4.28	121.73	127.34
32	1a	1518	MA6	C4-C5-N7	-4.28	105.69	110.58
54	2y	55	PSU	O2-C2-N1	-4.28	118.38	122.79
54	2w	8	4SU	N3-C2-N1	4.24	120.41	114.89
32	2a	1519	MA6	C2-N1-C6	4.24	122.18	111.83
32	2a	1519	MA6	C4-C5-N7	-4.23	105.74	110.58
54	2w	8	4SU	C5-C4-S4	-4.20	119.51	124.31
54	1w	46	7MG	C2-N3-C4	4.19	119.51	112.30
32	2a	516	PSU	C4-N3-C2	-4.18	120.61	126.37
32	2a	527	7MG	C2-N3-C4	4.18	119.49	112.30
32	1a	1519	MA6	C2-N1-C6	4.16	121.99	111.83
32	2a	1519	MA6	C9-N6-C6	-4.14	109.98	120.52
1	2A	1917	PSU	C4-N3-C2	-4.13	120.67	126.37
32	1a	516	PSU	C4-N3-C2	-4.13	120.69	126.37
54	2w	54	5MU	O4-C4-C5	-4.12	120.20	124.92
1	1A	1961	5MU	C5-C6-N1	-4.12	118.84	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1w	54	5MU	C5-C6-N1	-4.11	118.85	123.31
32	1a	1519	MA6	C4-C5-N7	-4.09	105.90	110.58
55	2x	54	5MU	C5-C4-N3	4.07	118.86	115.32
1	1A	1933	PSU	C4-N3-C2	-4.05	120.80	126.37
32	2a	1519	MA6	N3-C4-N9	4.04	134.04	127.17
54	2w	46	7MG	C2-N3-C4	4.04	119.25	112.30
1	2A	1911	PSU	C4-N3-C2	-4.01	120.85	126.37
54	1y	55	PSU	C4-N3-C2	-3.98	120.88	126.37
32	2a	1404	5MC	C5-C6-N1	-3.98	118.99	123.31
54	1y	54	5MU	O4-C4-C5	-3.98	120.37	124.92
1	1A	2515	2MA	N6-C6-N1	3.97	122.38	117.03
1	2A	2605	PSU	C4-N3-C2	-3.96	120.92	126.37
32	1a	1207	2MG	N9-C4-N3	3.94	133.84	125.95
55	1x	8	4SU	O2-C2-N1	3.93	127.91	122.80
32	1a	1207	2MG	C6-C5-N7	3.89	137.37	130.29
32	2a	1518	MA6	N3-C4-N9	3.88	133.76	127.17
54	1w	55	PSU	O2-C2-N1	-3.87	118.80	122.79
54	2y	54	5MU	O4-C4-C5	-3.86	120.50	124.92
54	1w	8	4SU	C5-C4-S4	-3.86	119.90	124.31
54	1w	34	CM0	C7-O5-C5	3.86	122.40	117.48
54	1y	55	PSU	O2-C2-N1	-3.86	118.81	122.79
32	1a	1519	MA6	C9-N6-C6	-3.86	110.71	120.52
32	1a	1518	MA6	C9-N6-C6	-3.84	110.75	120.52
1	2A	1915	5MU	C5-C4-N3	3.84	118.66	115.32
55	1x	54	5MU	C5-C4-N3	3.82	118.64	115.32
55	1x	8	4SU	C6-C5-C4	-3.80	116.66	119.95
32	2a	1207	2MG	N9-C4-N3	3.78	133.50	125.95
54	2y	54	5MU	C5-C6-N1	-3.76	119.23	123.31
54	1y	37	6MZ	C6-C5-N7	3.76	136.53	132.43
32	2a	1207	2MG	C6-C5-N7	3.75	137.12	130.29
54	2w	37	6MZ	C2-N3-C4	3.74	120.96	111.83
54	2w	54	5MU	C5-C4-N3	3.73	118.56	115.32
54	1y	37	6MZ	C2-N3-C4	3.73	120.94	111.83
1	2A	1939	5MU	O2-C2-N1	-3.71	117.96	122.80
1	1A	1939	PSU	C4-N3-C2	-3.71	121.26	126.37
55	1x	55	PSU	O2-C2-N1	-3.71	118.96	122.79
54	1y	8	4SU	N3-C2-N1	3.69	119.70	114.89
1	1A	1984	5MC	C5-C6-N1	-3.68	119.31	123.31
54	1w	37	6MZ	C2-N3-C4	3.66	120.76	111.83
1	2A	1942	5MC	C5-C6-N1	-3.65	119.34	123.31
1	1A	2564	2MU	C2'-C1'-N1	-3.63	107.34	114.24
1	2A	1911	PSU	O2-C2-N1	-3.63	119.05	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1917	PSU	O2-C2-N1	-3.62	119.05	122.79
54	2y	55	PSU	C4-N3-C2	-3.61	121.39	126.37
54	2y	37	6MZ	C2-N3-C4	3.61	120.65	111.83
54	2w	55	PSU	C4-N3-C2	-3.60	121.41	126.37
1	1A	1937	5MU	O4-C4-C5	-3.60	120.80	124.92
32	2a	967	5MC	C5-C6-N1	-3.59	119.41	123.31
54	1y	37	6MZ	C4-C5-N7	-3.59	106.47	110.58
32	2a	1518	MA6	C2-N3-C4	3.59	120.60	111.83
54	1w	37	6MZ	C4-C5-N7	-3.58	106.49	110.58
32	2a	1519	MA6	C2-N3-C4	3.57	120.54	111.83
32	2a	1400	5MC	C5-C6-N1	-3.56	119.44	123.31
1	1A	1964	5MC	C5-C6-N1	-3.56	119.45	123.31
54	1w	54	5MU	O2-C2-N1	-3.55	118.17	122.80
54	2w	37	6MZ	C9-N6-C6	-3.54	119.56	122.85
1	2A	1962	5MC	C5-C6-N1	-3.54	119.47	123.31
55	1x	54	5MU	C5-C6-N1	-3.51	119.50	123.31
54	2w	55	PSU	O2-C2-N1	-3.49	119.19	122.79
32	1a	1519	MA6	C2-N3-C4	3.48	120.33	111.83
54	1w	8	4SU	N3-C2-N1	3.48	119.42	114.89
54	2w	37	6MZ	C4-C5-N7	-3.48	106.61	110.58
32	1a	1518	MA6	N3-C4-N9	3.46	133.06	127.17
32	1a	1400	5MC	C5-C6-N1	-3.46	119.56	123.31
32	1a	1518	MA6	C2-N3-C4	3.46	120.27	111.83
55	2x	54	5MU	O4-C4-C5	-3.46	120.96	124.92
54	2w	37	6MZ	C6-C5-N7	3.44	136.18	132.43
55	1x	54	5MU	O4-C4-C5	-3.44	120.98	124.92
1	2A	1915	5MU	O4-C4-C5	-3.43	120.99	124.92
54	2y	37	6MZ	C4-C5-N7	-3.42	106.67	110.58
54	1y	37	6MZ	N1-C2-N3	-3.39	123.45	128.58
56	C	9	IAR	CG-CB-CA	3.39	120.46	113.52
54	2y	8	4SU	C1'-N1-C2	3.38	123.66	117.59
55	2x	32	5MC	C5-C6-N1	-3.37	119.65	123.31
32	2a	1407	5MC	C5-C6-N1	-3.37	119.66	123.31
54	1w	55	PSU	C4-N3-C2	-3.37	121.73	126.37
56	B	7	IAR	OXT-C-O	-3.35	115.93	123.90
1	1A	2564	2MU	O2-C2-N1	-3.33	118.46	122.80
55	2x	8	4SU	C5-C4-N3	3.33	117.84	114.75
1	1A	2515	2MA	C4-N9-C8	3.32	109.23	105.74
1	2A	2503	2MA	C4-C5-N7	-3.32	106.79	110.58
54	1w	37	6MZ	C6-C5-N7	3.31	136.04	132.43
1	1A	2263	OMG	C6-C5-N7	3.30	136.30	130.29
54	1y	54	5MU	C5-C6-N1	-3.30	119.73	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	8	4SU	C5-C4-N3	3.30	117.82	114.75
54	2y	8	4SU	N3-C2-N1	3.29	119.18	114.89
54	2w	54	5MU	C5-C6-N1	-3.29	119.74	123.31
32	2a	516	PSU	O2-C2-N1	-3.28	119.40	122.79
54	1w	37	6MZ	C9-N6-C6	-3.28	119.81	122.85
43	2l	92	0TD	OD2-CG-CB	3.24	120.14	113.15
32	2a	1518	MA6	N1-C2-N3	-3.24	123.68	128.58
32	1a	516	PSU	O2-C2-N1	-3.21	119.48	122.79
32	1a	1407	5MC	C5-C6-N1	-3.21	119.83	123.31
32	1a	1518	MA6	N1-C2-N3	-3.20	123.73	128.58
54	1y	46	7MG	C5-C4-N9	-3.19	102.25	106.33
1	1A	2564	2MU	C5-C4-N3	3.18	119.26	114.80
1	1A	1961	5MU	O2-C2-N1	-3.18	118.66	122.80
32	1a	966	M2G	C6-C5-N7	3.18	136.07	130.29
32	1a	1498	UR3	C5-C4-N3	3.16	119.19	115.04
54	1w	55	PSU	C6-C5-C4	-3.15	116.05	118.17
55	2x	55	PSU	O2-C2-N1	-3.15	119.54	122.79
1	2A	1915	5MU	C5-C6-N1	-3.15	119.89	123.31
32	1a	1207	2MG	C4-C5-N7	-3.15	105.68	110.67
1	2A	2503	2MA	N6-C6-N1	3.14	121.27	117.03
54	1w	37	6MZ	N1-C2-N3	-3.14	123.83	128.58
32	2a	1519	MA6	N1-C2-N3	-3.13	123.85	128.58
1	1A	1933	PSU	O2-C2-N1	-3.11	119.58	122.79
32	2a	1207	2MG	N1-C2-N2	3.11	119.74	116.56
54	1w	34	CM0	O2-C2-N1	-3.09	118.78	122.80
1	2A	2251	OMG	C6-C5-N7	3.08	135.90	130.29
1	1A	1939	PSU	O2-C2-N1	-3.07	119.62	122.79
54	2w	37	6MZ	N1-C2-N3	-3.06	123.95	128.58
43	1l	92	0TD	OD2-CG-CB	3.04	119.72	113.15
32	1a	1519	MA6	C5-N7-C8	3.03	108.21	103.45
1	2A	2503	2MA	C4-N9-C8	3.02	108.91	105.74
54	1y	8	4SU	C1'-N1-C2	3.00	122.98	117.59
32	2a	1207	2MG	C4-C5-N7	-2.99	105.94	110.67
32	1a	967	5MC	C5-C6-N1	-2.98	120.07	123.31
32	2a	1518	MA6	C5-N7-C8	2.97	108.12	103.45
32	1a	1519	MA6	N1-C2-N3	-2.97	124.08	128.58
55	2x	54	5MU	C5-C6-N1	-2.96	120.10	123.31
1	1A	2617	PSU	O2-C2-N1	-2.96	119.74	122.79
54	1y	8	4SU	C5-C4-S4	-2.94	120.95	124.31
1	2A	2605	PSU	O2-C2-N1	-2.93	119.76	122.79
54	2y	37	6MZ	N1-C2-N3	-2.92	124.17	128.58
32	2a	1519	MA6	C10-N6-C6	-2.91	113.12	120.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	2552	2MU	C5-C4-N3	2.90	118.85	114.80
54	2y	37	6MZ	C6-C5-N7	2.89	135.58	132.43
1	1A	2515	2MA	C4-C5-N7	-2.87	107.30	110.58
1	1A	1937	5MU	C5-C6-N1	-2.86	120.20	123.31
32	2a	1498	UR3	C5-C4-N3	2.86	118.81	115.04
1	2A	1915	5MU	O2-C2-N1	-2.86	119.08	122.80
32	2a	1519	MA6	C5-N7-C8	2.83	107.89	103.45
1	1A	2564	2MU	O4-C4-C5	-2.83	120.29	125.16
55	1x	32	5MC	C5-C4-N3	-2.81	118.88	121.75
1	2A	1920	4OC	O2-C2-N3	-2.81	117.90	122.33
55	2x	32	5MC	O2-C2-N3	-2.80	117.92	122.33
32	1a	1518	MA6	C5-N7-C8	2.78	107.82	103.45
32	2a	1407	5MC	C5-C4-N3	-2.78	118.91	121.75
55	1x	8	4SU	O2-C2-N3	-2.77	116.39	121.49
1	2A	2552	2MU	O2-C2-N1	-2.76	119.20	122.80
32	1a	1518	MA6	C10-N6-C6	-2.76	113.51	120.52
32	1a	1407	5MC	C5-C4-N3	-2.74	118.95	121.75
1	2A	2552	2MU	C2'-C1'-N1	-2.74	109.05	114.24
32	2a	527	7MG	C5-C6-N1	2.72	115.73	110.94
55	2x	32	5MC	C5-C4-N3	-2.70	118.98	121.75
32	1a	1207	2MG	N1-C2-N2	2.68	119.30	116.56
54	2y	37	6MZ	C9-N6-C6	-2.68	120.37	122.85
32	1a	1519	MA6	C4-N9-C8	2.68	108.55	105.74
54	1y	37	6MZ	C9-N6-C6	-2.67	120.38	122.85
1	2A	1962	5MC	C5-C4-N3	-2.67	119.02	121.75
32	2a	1404	5MC	C5-C4-N3	-2.66	119.03	121.75
54	2y	54	5MU	O2-C2-N1	-2.66	119.34	122.80
1	1A	1964	5MC	C5-C4-N3	-2.65	119.04	121.75
54	2w	54	5MU	O2-C2-N1	-2.65	119.35	122.80
32	2a	1518	MA6	C6-C5-N7	2.64	137.65	133.43
32	1a	1519	MA6	N1-C6-N6	2.64	120.07	116.86
32	1a	1404	5MC	C5-C6-N1	-2.63	120.45	123.31
55	2x	55	PSU	C5-C6-N1	-2.63	118.49	122.14
32	2a	966	M2G	C6-C5-N7	2.63	135.07	130.29
55	2x	54	5MU	O2-C2-N1	-2.62	119.38	122.80
32	1a	966	M2G	C4-C5-N7	-2.61	106.53	110.67
32	1a	527	7MG	C5-C6-N1	2.61	115.54	110.94
32	2a	1207	2MG	N2-C2-N3	-2.61	117.18	120.51
1	2A	2503	2MA	C5-N7-C8	2.61	107.55	103.45
55	2x	8	4SU	C1'-N1-C2	2.61	122.28	117.59
54	2y	46	7MG	C5-C4-N9	-2.60	103.00	106.33
32	1a	1518	MA6	C6-C5-N7	2.59	137.57	133.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1518	MA6	C4-N9-C8	2.59	108.46	105.74
54	2w	46	7MG	C5-C4-N9	-2.58	103.03	106.33
54	1y	37	6MZ	C4-N9-C8	2.57	108.44	105.74
54	1y	37	6MZ	C5-N7-C8	2.57	107.49	103.45
32	1a	1400	5MC	C5-C4-N3	-2.55	119.14	121.75
54	2w	34	CM0	O2-C2-N1	-2.55	119.48	122.80
32	2a	1519	MA6	C4-N9-C8	2.54	108.41	105.74
1	1A	2617	PSU	C5-C6-N1	-2.54	118.61	122.14
1	2A	2503	2MA	C2-N1-C6	2.54	122.00	118.10
1	1A	2263	OMG	C4-C5-N7	-2.53	106.66	110.67
54	2y	37	6MZ	C5-N7-C8	2.53	107.43	103.45
32	1a	967	5MC	C5-C4-N3	-2.53	119.16	121.75
32	2a	1400	5MC	C5-C4-N3	-2.53	119.17	121.75
54	1w	46	7MG	C5-C6-N1	2.51	115.36	110.94
1	1A	2515	2MA	C2-N1-C6	2.51	121.95	118.10
55	2x	8	4SU	C6-C5-C4	-2.51	117.78	119.95
32	1a	1404	5MC	C5-C4-N3	-2.48	119.21	121.75
1	1A	1937	5MU	O2-C2-N1	-2.48	119.57	122.80
32	2a	967	5MC	C5-C4-N3	-2.48	119.22	121.75
54	1w	46	7MG	C5-C4-N9	-2.47	103.17	106.33
1	1A	2263	OMG	O6-C6-C5	-2.47	120.00	126.53
32	1a	1207	2MG	N2-C2-N3	-2.47	117.37	120.51
54	2w	37	6MZ	C5-N7-C8	2.46	107.32	103.45
54	2w	46	7MG	C5-C6-N1	2.45	115.25	110.94
54	2w	34	CM0	C7-O5-C5	2.45	120.60	117.48
1	2A	1942	5MC	C5-C4-N3	-2.43	119.26	121.75
54	2w	37	6MZ	C4-N9-C8	2.43	108.29	105.74
55	1x	8	4SU	C1'-N1-C2	2.43	121.95	117.59
54	2y	46	7MG	C5-C6-N1	2.41	115.19	110.94
32	2a	1518	MA6	C10-N6-C9	-2.41	108.44	116.18
54	1w	37	6MZ	C5-N7-C8	2.40	107.22	103.45
1	1A	2515	2MA	C5-N7-C8	2.39	107.20	103.45
1	1A	2515	2MA	N9-C8-N7	-2.36	110.58	113.94
32	2a	966	M2G	O6-C6-C5	-2.36	120.31	126.53
1	2A	2251	OMG	C4-C5-N7	-2.34	106.96	110.67
1	2A	2251	OMG	O6-C6-C5	-2.33	120.37	126.53
54	2y	37	6MZ	C4-N9-C8	2.33	108.19	105.74
1	2A	2552	2MU	O4-C4-C5	-2.32	121.17	125.16
32	2a	1402	4OC	CM4-N4-C4	-2.31	117.94	122.45
32	2a	1519	MA6	C6-C5-N7	2.30	137.11	133.43
32	2a	1498	UR3	C1'-N1-C2	2.30	120.80	117.04
56	C	2	EUP	O-C-CA	-2.30	118.86	124.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	54	5MU	O2-C2-N1	-2.29	119.81	122.80
32	2a	1518	MA6	C10-N6-C6	-2.29	114.70	120.52
54	1w	8	4SU	C1'-N1-C2	2.28	121.69	117.59
32	1a	1402	4OC	C6-C5-C4	2.27	119.73	117.00
1	2A	2503	2MA	N9-C8-N7	-2.26	110.72	113.94
54	1w	37	6MZ	C4-N9-C8	2.26	108.11	105.74
32	2a	966	M2G	C4-C5-N7	-2.24	107.11	110.67
55	2x	8	4SU	O2-C2-N1	2.24	125.72	122.80
56	C	9	IAR	OXT-C-O	-2.24	118.56	123.90
32	1a	1518	MA6	C4-N9-C8	2.24	108.09	105.74
54	2y	34	CM0	O2-C2-N3	-2.23	117.38	121.49
32	2a	1402	4OC	C6-C5-C4	2.22	119.68	117.00
1	1A	2617	PSU	O2-C2-N3	-2.22	117.91	121.86
55	1x	55	PSU	C5-C6-N1	-2.21	119.08	122.14
1	1A	1937	5MU	C5M-C5-C4	2.20	121.14	118.78
43	2l	92	0TD	OD1-CG-CB	-2.20	117.83	122.44
54	2w	55	PSU	C6-C5-C4	-2.20	116.69	118.17
32	1a	1407	5MC	O2-C2-N3	-2.20	118.87	122.33
55	2x	8	4SU	O2-C2-N3	-2.19	117.44	121.49
32	1a	1207	2MG	C2-N1-C6	-2.19	121.90	124.55
32	1a	1207	2MG	C8-N7-C5	2.19	108.16	104.26
32	2a	1404	5MC	CM5-C5-C6	-2.18	119.90	122.85
32	2a	1407	5MC	O2-C2-N3	-2.18	118.90	122.33
32	1a	516	PSU	C5-C6-N1	-2.17	119.13	122.14
54	1w	34	CM0	O3'-C3'-C2'	2.17	118.76	111.82
1	1A	1942	4OC	O2-C2-N3	-2.16	118.92	122.33
32	1a	1519	MA6	N9-C8-N7	-2.16	110.88	113.94
54	2w	34	CM0	O3'-C3'-C2'	2.15	118.71	111.82
32	2a	516	PSU	O4'-C1'-C2'	2.15	108.13	105.15
1	2A	1917	PSU	C5-C6-N1	-2.13	119.18	122.14
54	2w	8	4SU	C1'-N1-C2	2.13	121.42	117.59
55	1x	8	4SU	S4-C4-N3	-2.13	117.98	120.20
54	1y	34	CM0	O2-C2-N1	-2.11	120.04	122.80
54	1w	46	7MG	O6-C6-C5	-2.11	122.44	127.62
54	1y	34	CM0	O5-C7-C8	-2.10	106.41	110.93
1	1A	1933	PSU	C5-C6-N1	-2.10	119.23	122.14
55	1x	54	5MU	O2-C2-N1	-2.10	120.07	122.80
32	2a	1498	UR3	C6-N1-C2	-2.09	120.09	121.80
1	2A	2605	PSU	C5-C6-N1	-2.09	119.24	122.14
54	1y	46	7MG	C4-C5-N7	2.08	107.83	105.38
54	1y	37	6MZ	C2-N1-C6	2.08	122.13	115.24
32	1a	1402	4OC	O2-C2-N3	-2.07	119.06	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	516	PSU	C5-C6-N1	-2.07	119.26	122.14
32	1a	1498	UR3	C3U-N3-C2	2.07	120.94	117.33
32	1a	1498	UR3	C6-N1-C2	-2.07	120.11	121.80
1	1A	1939	PSU	C5-C6-N1	-2.06	119.28	122.14
32	2a	1518	MA6	N9-C8-N7	-2.06	111.01	113.94
32	2a	1402	4OC	O2-C2-N3	-2.05	119.11	122.33
32	1a	967	5MC	O2-C2-N3	-2.04	119.11	122.33
54	2w	46	7MG	O6-C6-C5	-2.04	122.61	127.62
32	1a	527	7MG	C5-C4-N9	-2.04	103.73	106.33
32	1a	516	PSU	O4'-C1'-C2'	2.03	107.96	105.15
32	2a	1519	MA6	N9-C8-N7	-2.03	111.06	113.94
32	2a	1400	5MC	CM5-C5-C6	-2.02	120.11	122.85
55	1x	32	5MC	O2-C2-N3	-2.02	119.15	122.33
54	1y	55	PSU	O4'-C1'-C2'	2.01	107.94	105.15
55	2x	55	PSU	O2-C2-N3	-2.01	118.29	121.86
32	2a	527	7MG	C5-C4-N9	-2.01	103.76	106.33

There are no chirality outliers.

All (94) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	1A	2263	OMG	C1'-C2'-O2'-CM2
32	1a	967	5MC	O4'-C4'-C5'-O5'
32	1a	1400	5MC	O4'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1518	MA6	C5-C6-N6-C9
32	2a	1519	MA6	O4'-C4'-C5'-O5'
54	1y	46	7MG	C4'-C5'-O5'-P
54	2w	46	7MG	O4'-C4'-C5'-O5'
54	2w	46	7MG	C3'-C4'-C5'-O5'
54	2y	46	7MG	C2'-C1'-N9-C8
54	1y	54	5MU	C3'-C4'-C5'-O5'
54	1y	54	5MU	O4'-C4'-C5'-O5'
54	2y	54	5MU	O4'-C4'-C5'-O5'
56	C	2	EUP	CA-CAN-CAP-NAQ
56	C	2	EUP	OAO-CAN-CAP-NAQ
56	A	5	ORD	N-CA-CB-CG
56	A	5	ORD	C-CA-CB-CG
56	B	3	ORD	N-CA-CB-CG
56	B	3	ORD	O-C-CA-CB
56	C	5	ORD	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
56	C	5	ORD	C-CA-CB-CG
56	C	5	ORD	O-C-CA-CB
56	B	7	IAR	C-CA-CB-CG
56	C	9	IAR	C-CA-CB-CG
56	C	9	IAR	NE-CD-CG-CB
32	1a	967	5MC	C3'-C4'-C5'-O5'
54	1w	46	7MG	O4'-C4'-C5'-O5'
54	1w	46	7MG	C3'-C4'-C5'-O5'
54	2y	54	5MU	C3'-C4'-C5'-O5'
56	A	9	IAR	NE-CD-CG-CB
32	2a	527	7MG	C3'-C4'-C5'-O5'
54	2w	34	CM0	C3'-C4'-C5'-O5'
54	2w	34	CM0	O4'-C4'-C5'-O5'
54	1y	46	7MG	C3'-C4'-C5'-O5'
32	2a	1518	MA6	N1-C6-N6-C9
32	1a	1519	MA6	C3'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
32	1a	527	7MG	C3'-C4'-C5'-O5'
32	1a	1400	5MC	C3'-C4'-C5'-O5'
32	2a	1207	2MG	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
54	2y	34	CM0	O5-C7-C8-O8
54	2w	34	CM0	O5-C7-C8-O9
32	2a	527	7MG	O4'-C4'-C5'-O5'
32	1a	1518	MA6	C5-C6-N6-C10
32	1a	1519	MA6	C5-C6-N6-C10
32	2a	1519	MA6	C5-C6-N6-C10
54	2w	34	CM0	O5-C7-C8-O8
54	2y	34	CM0	O5-C7-C8-O9
54	1w	34	CM0	C6-C5-O5-C7
54	2w	34	CM0	C6-C5-O5-C7
54	2w	34	CM0	C4-C5-O5-C7
32	2a	1207	2MG	O4'-C4'-C5'-O5'
54	2w	34	CM0	C8-C7-O5-C5
54	2y	34	CM0	C8-C7-O5-C5
54	1w	34	CM0	O5-C7-C8-O8
54	1y	46	7MG	C2'-C1'-N9-C8
54	1w	34	CM0	C3'-C4'-C5'-O5'
56	B	3	ORD	C-CA-CB-CG
54	1w	34	CM0	O5-C7-C8-O9
54	1y	34	CM0	O5-C7-C8-O9
32	1a	527	7MG	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
54	1y	46	7MG	O4'-C4'-C5'-O5'
56	B	7	IAR	CA-CB-CG-CD
54	1y	34	CM0	O5-C7-C8-O8
32	2a	527	7MG	C4'-C5'-O5'-P
54	2y	37	6MZ	C4'-C5'-O5'-P
54	1w	34	CM0	C8-C7-O5-C5
54	2y	55	PSU	O4'-C1'-C5-C4
54	1w	34	CM0	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C4'-C5'-O5'-P
32	1a	1518	MA6	C5-C6-N6-C9
1	1A	2515	2MA	C4'-C5'-O5'-P
32	1a	1402	4OC	O4'-C4'-C5'-O5'
56	A	9	IAR	CG-CD-NE-CZ
54	1w	34	CM0	C4-C5-O5-C7
43	2l	92	0TD	SB-CB-CG-OD2
32	2a	1519	MA6	C4'-C5'-O5'-P
54	1y	46	7MG	O4'-C1'-N9-C8
43	1l	92	0TD	CG-CB-SB-CSB
43	2l	92	0TD	CG-CB-SB-CSB
56	A	2	EUP	O-C-CA-CAN
56	C	2	EUP	O-C-CA-CAN
56	B	3	ORD	CA-CB-CG-CD
1	2A	1920	4OC	C2'-C1'-N1-C2
32	1a	527	7MG	C4'-C5'-O5'-P
54	2y	46	7MG	C2'-C1'-N9-C4
1	1A	1942	4OC	C2'-C1'-N1-C2
32	2a	1402	4OC	C2'-C1'-N1-C2
54	1y	8	4SU	C2'-C1'-N1-C2
54	2y	8	4SU	C2'-C1'-N1-C2
1	2A	1917	PSU	O4'-C4'-C5'-O5'
1	2A	2503	2MA	O4'-C4'-C5'-O5'

There are no ring outliers.

41 monomers are involved in 64 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	1a	1518	MA6	2	0
56	A	5	ORD	1	0
54	2w	46	7MG	1	0
56	B	7	IAR	1	0
32	1a	1402	4OC	2	0
54	1w	54	5MU	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	2A	1939	5MU	2	0
54	2y	55	PSU	1	0
54	2y	46	7MG	1	0
54	1w	46	7MG	2	0
54	1y	37	6MZ	2	0
32	1a	1400	5MC	1	0
55	1x	8	4SU	3	0
54	2y	34	CM0	1	0
32	1a	1519	MA6	2	0
55	2x	8	4SU	1	0
56	B	3	ORD	2	0
56	A	2	EUP	1	0
1	2A	2552	2MU	2	0
54	2y	54	5MU	1	0
1	1A	1961	5MU	1	0
55	2x	54	5MU	1	0
1	2A	2503	2MA	1	0
32	2a	1207	2MG	1	0
1	1A	2564	2MU	1	0
54	2y	8	4SU	1	0
56	C	5	ORD	2	0
56	A	9	IAR	3	0
32	2a	1402	4OC	2	0
54	1y	54	5MU	2	0
54	1y	55	PSU	3	0
54	1y	8	4SU	1	0
54	2w	54	5MU	2	0
32	2a	1519	MA6	2	0
32	2a	1518	MA6	3	0
32	1a	966	M2G	2	0
56	C	9	IAR	3	0
54	2y	37	6MZ	3	0
43	2l	92	0TD	1	0
32	2a	967	5MC	1	0
32	1a	1207	2MG	1	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2842 ligands modelled in this entry, 2840 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
60	SF4	2d	501	35	0,12,12	-	-	-		
60	SF4	1d	501	35	0,12,12	-	-	-		

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
60	SF4	2d	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.

No monomer is involved in short contacts.

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%)	-0.54	129 (4%)	38	32	21, 37, 96, 109	0
1	2A	2789/2915 (95%)	0.05	117 (4%)	40	35	35, 60, 95, 109	0
2	1B	120/121 (99%)	-0.48	0	100	100	31, 51, 63, 88	0
2	2B	120/121 (99%)	1.08	7 (5%)	29	23	66, 83, 90, 101	0
3	1D	275/276 (99%)	-0.05	5 (1%)	67	63	23, 38, 54, 83	0
3	2D	275/276 (99%)	0.37	4 (1%)	72	68	32, 52, 66, 85	0
4	1E	204/206 (99%)	-0.06	2 (0%)	79	76	20, 41, 62, 80	0
4	2E	204/206 (99%)	0.33	3 (1%)	72	68	36, 61, 75, 89	0
5	1F	203/210 (96%)	-0.07	1 (0%)	87	85	21, 43, 70, 85	0
5	2F	203/210 (96%)	0.64	6 (2%)	52	47	37, 72, 84, 89	0
6	1G	181/182 (99%)	0.52	10 (5%)	30	25	42, 64, 78, 88	0
6	2G	181/182 (99%)	1.80	63 (34%)	1	1	77, 86, 92, 98	0
7	1H	174/180 (96%)	0.25	4 (2%)	61	55	39, 56, 69, 79	0
7	2H	174/180 (96%)	1.27	24 (13%)	6	5	72, 85, 93, 97	0
8	1I	146/148 (98%)	0.75	4 (2%)	56	50	43, 75, 85, 88	0
8	2I	146/148 (98%)	1.20	17 (11%)	9	7	56, 77, 87, 94	0
9	1N	140/140 (100%)	-0.21	0	100	100	28, 38, 65, 79	0
9	2N	140/140 (100%)	0.83	11 (7%)	18	14	50, 67, 81, 87	0
10	1O	122/122 (100%)	0.07	1 (0%)	82	80	30, 42, 58, 66	0
10	2O	122/122 (100%)	0.62	3 (2%)	58	52	45, 60, 72, 78	0
11	1P	149/150 (99%)	0.06	0	100	100	21, 48, 69, 80	0
11	2P	149/150 (99%)	0.62	7 (4%)	36	30	40, 71, 86, 91	0
12	1Q	141/141 (100%)	-0.04	1 (0%)	84	82	27, 43, 59, 79	0
12	2Q	141/141 (100%)	1.05	16 (11%)	10	8	48, 71, 81, 87	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	-0.26	0	100 100	26, 35, 52, 62	0
13	2R	118/118 (100%)	0.30	1 (0%)	82 80	42, 56, 67, 75	0
14	1S	110/112 (98%)	0.10	1 (0%)	81 78	39, 51, 65, 68	0
14	2S	110/112 (98%)	1.34	16 (14%)	6 4	67, 78, 85, 91	0
15	1T	131/146 (89%)	0.28	10 (7%)	20 16	34, 45, 73, 83	0
15	2T	131/146 (89%)	0.58	2 (1%)	72 68	52, 63, 80, 85	0
16	1U	116/118 (98%)	-0.42	1 (0%)	81 78	22, 31, 46, 69	0
16	2U	116/118 (98%)	0.76	2 (1%)	69 64	48, 65, 80, 88	0
17	1V	101/101 (100%)	-0.29	1 (0%)	79 76	22, 41, 57, 71	0
17	2V	101/101 (100%)	0.94	8 (7%)	18 14	47, 76, 84, 88	0
18	1W	112/113 (99%)	-0.29	3 (2%)	56 50	24, 33, 55, 82	0
18	2W	112/113 (99%)	0.50	3 (2%)	56 50	43, 53, 71, 88	0
19	1X	95/96 (98%)	0.03	2 (2%)	63 58	28, 40, 58, 77	0
19	2X	95/96 (98%)	0.64	5 (5%)	32 26	45, 63, 79, 87	0
20	1Y	107/110 (97%)	0.29	1 (0%)	81 78	37, 52, 72, 81	0
20	2Y	107/110 (97%)	1.35	22 (20%)	2 2	64, 75, 84, 90	0
21	1Z	154/206 (74%)	0.84	20 (12%)	7 5	41, 67, 93, 100	0
21	2Z	160/206 (77%)	1.74	50 (31%)	1 1	70, 87, 98, 101	0
22	10	83/85 (97%)	0.17	5 (6%)	27 22	30, 40, 63, 78	0
22	20	83/85 (97%)	1.32	15 (18%)	3 3	45, 69, 82, 85	0
23	11	97/98 (98%)	0.22	2 (2%)	63 58	28, 47, 73, 77	0
23	21	97/98 (98%)	0.58	4 (4%)	41 36	40, 57, 78, 84	0
24	12	70/72 (97%)	0.36	4 (5%)	29 24	36, 51, 62, 78	0
24	22	70/72 (97%)	0.84	4 (5%)	29 24	62, 74, 81, 84	0
25	13	59/60 (98%)	-0.16	2 (3%)	48 42	28, 37, 65, 85	0
25	23	59/60 (98%)	0.76	3 (5%)	33 28	55, 69, 83, 92	0
26	14	69/71 (97%)	0.89	10 (14%)	6 4	59, 78, 94, 98	0
26	24	69/71 (97%)	2.07	30 (43%)	0 0	80, 91, 97, 98	0
27	15	59/60 (98%)	-0.32	1 (1%)	69 64	21, 32, 53, 63	0
27	25	59/60 (98%)	0.26	1 (1%)	69 64	38, 52, 72, 79	0
28	16	53/54 (98%)	0.01	1 (1%)	66 61	35, 44, 60, 63	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.88	0	100 100	55, 63, 74, 77	0
29	17	48/49 (97%)	-0.23	3 (6%)	26 20	23, 29, 55, 67	0
29	27	48/49 (97%)	0.17	3 (6%)	26 20	34, 42, 67, 76	0
30	18	64/65 (98%)	-0.12	1 (1%)	70 66	29, 35, 43, 58	0
30	28	64/65 (98%)	0.47	2 (3%)	51 45	51, 59, 66, 71	0
31	19	37/37 (100%)	-0.11	0	100 100	31, 42, 60, 62	0
31	29	37/37 (100%)	1.21	3 (8%)	18 14	62, 70, 82, 86	0
32	1a	1488/1521 (97%)	0.32	56 (3%)	44 38	36, 69, 95, 107	0
32	2a	1491/1521 (98%)	0.78	160 (10%)	11 9	50, 80, 99, 109	0
33	1b	231/256 (90%)	1.18	34 (14%)	6 4	66, 82, 93, 98	0
33	2b	231/256 (90%)	2.15	125 (54%)	0 0	76, 90, 96, 101	0
34	1c	206/239 (86%)	1.03	21 (10%)	12 9	64, 76, 85, 91	0
34	2c	206/239 (86%)	2.26	116 (56%)	0 0	79, 89, 94, 98	0
35	1d	208/209 (99%)	1.27	33 (15%)	5 4	59, 74, 85, 90	0
35	2d	208/209 (99%)	1.03	19 (9%)	15 11	63, 74, 83, 91	0
36	1e	148/162 (91%)	0.66	2 (1%)	73 69	51, 66, 77, 84	0
36	2e	148/162 (91%)	1.50	40 (27%)	1 1	72, 80, 88, 95	0
37	1f	100/101 (99%)	0.69	2 (2%)	65 60	57, 70, 79, 82	0
37	2f	100/101 (99%)	0.65	1 (1%)	79 76	64, 74, 84, 87	0
38	1g	155/156 (99%)	0.92	17 (10%)	10 8	64, 74, 87, 95	0
38	2g	155/156 (99%)	1.35	30 (19%)	3 2	75, 83, 91, 95	0
39	1h	137/138 (99%)	0.74	4 (2%)	53 48	58, 69, 76, 80	0
39	2h	137/138 (99%)	1.26	21 (15%)	5 4	70, 80, 86, 88	0
40	1i	127/128 (99%)	1.19	16 (12%)	8 6	58, 80, 89, 93	0
40	2i	127/128 (99%)	2.03	60 (47%)	0 0	78, 88, 94, 97	0
41	1j	97/105 (92%)	1.57	24 (24%)	2 1	60, 79, 91, 94	0
41	2j	96/105 (91%)	2.44	62 (64%)	0 0	81, 90, 97, 98	0
42	1k	114/129 (88%)	0.88	7 (6%)	27 22	43, 69, 79, 84	0
42	2k	114/129 (88%)	1.20	13 (11%)	10 7	58, 77, 85, 87	0
43	1l	121/132 (91%)	0.53	11 (9%)	15 11	50, 58, 71, 80	0
43	2l	121/132 (91%)	0.96	11 (9%)	15 11	62, 72, 79, 84	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.90	14 (11%) 10 7	62, 75, 86, 94	0
44	2m	122/126 (96%)	2.30	62 (50%) 0 0	78, 88, 96, 102	0
45	1n	60/61 (98%)	1.34	11 (18%) 3 3	62, 72, 79, 81	0
45	2n	60/61 (98%)	2.63	43 (71%) 0 0	81, 89, 94, 97	0
46	1o	88/89 (98%)	0.69	3 (3%) 48 42	50, 67, 78, 83	0
46	2o	88/89 (98%)	1.02	8 (9%) 15 11	66, 76, 86, 91	0
47	1p	82/88 (93%)	1.80	30 (36%) 1 0	59, 74, 84, 86	0
47	2p	82/88 (93%)	1.05	7 (8%) 16 13	61, 71, 80, 83	0
48	1q	99/105 (94%)	0.82	2 (2%) 65 60	57, 70, 79, 84	0
48	2q	99/105 (94%)	1.09	11 (11%) 10 8	66, 76, 85, 86	0
49	1r	68/88 (77%)	0.76	5 (7%) 20 16	61, 70, 80, 86	0
49	2r	68/88 (77%)	0.68	2 (2%) 53 48	69, 76, 85, 89	0
50	1s	83/93 (89%)	0.99	6 (7%) 21 17	66, 76, 86, 90	0
50	2s	83/93 (89%)	2.65	60 (72%) 0 0	83, 91, 97, 99	0
51	1t	96/106 (90%)	1.35	18 (18%) 3 2	62, 73, 84, 89	0
51	2t	96/106 (90%)	0.97	12 (12%) 8 6	60, 73, 86, 89	0
52	1u	23/27 (85%)	1.15	2 (8%) 16 12	65, 69, 77, 80	0
52	2u	23/27 (85%)	2.67	16 (69%) 0 0	78, 86, 90, 91	0
53	1v	13/27 (48%)	1.03	4 (30%) 1 1	48, 67, 93, 102	0
53	2v	13/27 (48%)	2.09	6 (46%) 0 0	70, 91, 102, 110	0
54	1w	67/76 (88%)	1.66	24 (35%) 1 1	55, 96, 102, 106	0
54	1y	68/76 (89%)	1.92	33 (48%) 0 0	40, 98, 103, 108	0
54	2w	67/76 (88%)	1.94	25 (37%) 1 0	73, 100, 104, 108	0
54	2y	67/76 (88%)	2.26	46 (68%) 0 0	58, 101, 105, 106	0
55	1x	72/77 (93%)	0.40	2 (2%) 55 49	36, 71, 85, 93	0
55	2x	72/77 (93%)	0.92	5 (6%) 23 18	56, 85, 94, 98	0
56	A	6/9 (66%)	1.18	0 100 100	70, 73, 78, 79	0
56	B	5/9 (55%)	2.86	5 (100%) 0 0	70, 75, 79, 79	0
56	C	6/9 (66%)	4.06	6 (100%) 0 0	90, 91, 95, 97	0
All	All	20896/21781 (95%)	0.50	2030 (9%) 13 10	20, 67, 94, 110	0

All (2030) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	11.6
44	2m	123	ALA	8.3
44	2m	102	ARG	7.4
44	1m	124	PRO	7.1
38	1g	80	VAL	6.9
45	1n	2	ALA	6.6
44	1m	123	ALA	6.3
44	2m	122	LYS	6.2
34	2c	2	GLY	6.1
21	1Z	141	VAL	6.1
23	2l	2	SER	6.1
45	2n	2	ALA	5.9
33	1b	237	ALA	5.8
34	2c	160	ALA	5.7
50	2s	9	VAL	5.6
31	29	37	GLY	5.6
50	2s	2	PRO	5.6
40	2i	102	LEU	5.5
38	2g	80	VAL	5.5
26	24	56	VAL	5.5
19	1X	95	LEU	5.3
38	1g	79	ARG	5.3
33	2b	165	VAL	5.3
56	C	4	GLY	5.2
56	C	6	PRO	5.2
52	2u	14	TRP	5.2
34	2c	158	GLY	5.2
3	1D	276	LYS	5.1
6	2G	19	LEU	5.1
41	2j	65	LEU	5.1
40	2i	10	ARG	5.1
40	2i	126	SER	5.1
41	2j	59	SER	5.1
24	12	70	GLN	5.0
50	2s	13	ASP	5.0
41	2j	47	PHE	5.0
21	2Z	170	THR	5.0
32	1a	1257	U	4.9
45	2n	34	TYR	4.8
1	1A	2163	G	4.8
21	2Z	146	ILE	4.8
1	1A	1140	U	4.8
34	2c	124	ILE	4.8

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Mol	Chain	Res	Type	RSRZ
26	24	49	PHE	4.7
44	2m	121	LYS	4.7
21	1Z	150	LEU	4.6
1	2A	2155	G	4.6
6	2G	28	VAL	4.6
38	1g	83	ALA	4.6
1	2A	2112	G	4.6
34	2c	207	VAL	4.6
50	1s	84	GLY	4.6
26	24	59	PHE	4.5
32	1a	1002	G	4.5
56	C	8	LYS	4.5
3	2D	276	LYS	4.5
1	2A	2115	G	4.5
38	1g	82	GLY	4.5
35	1d	5	ILE	4.5
52	2u	15	ARG	4.5
33	2b	129	GLU	4.5
33	2b	208	ILE	4.4
7	1H	2	SER	4.4
44	1m	122	LYS	4.4
44	2m	5	ALA	4.4
47	2p	76	GLN	4.4
34	2c	195	VAL	4.4
47	1p	35	LYS	4.4
32	2a	1220	G	4.4
45	2n	59	ALA	4.4
50	2s	15	LEU	4.4
34	2c	155	GLY	4.4
53	1v	12	A	4.4
1	2A	2117	A	4.4
22	10	6	GLY	4.3
1	2A	2116	G	4.3
1	1A	1124	U	4.3
26	24	63	TYR	4.3
15	1T	131	ALA	4.3
45	2n	33	VAL	4.3
1	1A	1103	A	4.3
21	2Z	171	ILE	4.2
41	2j	40	LEU	4.2
1	1A	2160	C	4.2
32	2a	1116	C	4.2

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Mol	Chain	Res	Type	RSRZ
50	2s	76	PRO	4.2
1	2A	2146	C	4.2
53	2v	14	A	4.2
38	1g	84	ASN	4.2
6	2G	52	ILE	4.2
22	20	3	HIS	4.2
32	2a	1034	G	4.2
38	2g	84	ASN	4.1
41	2j	93	GLY	4.1
44	2m	6	GLY	4.1
35	2d	194	LEU	4.1
1	2A	2119	A	4.1
33	2b	131	PRO	4.1
32	2a	1033	G	4.1
6	2G	50	ALA	4.1
34	2c	65	ALA	4.1
44	2m	4	ILE	4.1
14	2S	32	LEU	4.1
44	2m	60	VAL	4.1
12	2Q	22	LYS	4.1
33	2b	97	TRP	4.1
52	2u	16	GLY	4.1
1	1A	1133	G	4.1
1	2A	2156	G	4.1
27	15	60	VAL	4.1
44	2m	100	GLY	4.1
44	2m	90	LEU	4.1
50	2s	71	LEU	4.1
50	2s	41	VAL	4.1
26	24	58	ARG	4.0
41	2j	76	ASN	4.0
35	1d	150	GLU	4.0
34	2c	62	ASP	4.0
44	2m	7	VAL	4.0
54	2y	6	A	4.0
47	1p	76	GLN	4.0
50	2s	68	GLY	4.0
33	1b	236	TYR	4.0
21	2Z	141	VAL	4.0
41	2j	32	ALA	4.0
1	2A	2111	C	4.0
21	1Z	146	ILE	4.0

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Mol	Chain	Res	Type	RSRZ
34	2c	135	LYS	4.0
38	2g	82	GLY	3.9
32	1a	1531	A	3.9
1	1A	1106	U	3.9
34	2c	188	LEU	3.9
34	2c	196	LEU	3.9
54	1y	20	G	3.9
50	2s	79	THR	3.9
45	2n	39	LEU	3.9
50	2s	82	GLY	3.9
1	1A	2137	G	3.9
40	2i	9	ARG	3.9
22	10	7	LEU	3.9
38	1g	85	TYR	3.8
38	1g	86	GLN	3.8
1	2A	2114	A	3.8
21	1Z	120	ILE	3.8
32	1a	1001	A	3.8
33	2b	118	LEU	3.8
33	2b	196	LEU	3.8
47	1p	19	ILE	3.8
50	2s	31	ILE	3.8
29	17	47	ARG	3.8
35	2d	154	ASN	3.8
22	20	7	LEU	3.8
41	2j	74	ILE	3.8
32	1a	1001(A)	G	3.8
41	2j	91	PRO	3.8
52	2u	17	THR	3.8
47	1p	49	LEU	3.8
50	2s	54	GLY	3.8
44	2m	98	VAL	3.8
1	1A	1142	A	3.8
1	2A	2125	G	3.8
32	1a	204	U	3.8
41	2j	85	LEU	3.8
45	2n	13	THR	3.7
1	2A	652(B)	A	3.7
33	2b	121	LEU	3.7
53	2v	12	A	3.7
33	2b	236	TYR	3.7
1	1A	2134	G	3.7

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Mol	Chain	Res	Type	RSRZ
6	2G	20	ILE	3.7
1	2A	2113	U	3.7
32	1a	1532	U	3.7
1	1A	1138	C	3.7
45	2n	3	ARG	3.7
41	2j	34	VAL	3.7
54	2w	19	G	3.7
41	2j	63	PHE	3.7
33	2b	91	PRO	3.7
5	2F	161	GLU	3.7
33	2b	73	THR	3.7
34	2c	69	HIS	3.7
45	2n	7	ILE	3.7
40	2i	125	TYR	3.7
33	2b	237	ALA	3.7
41	2j	55	LYS	3.7
32	2a	1363(A)	A	3.7
1	1A	1104	G	3.7
32	2a	1272	G	3.7
50	2s	16	LEU	3.7
53	2v	24	C	3.7
12	2Q	6	ARG	3.7
26	14	54	GLY	3.7
50	1s	9	VAL	3.7
40	2i	124	GLN	3.7
32	1a	1447	A	3.6
26	24	65	ASP	3.6
56	B	6	LYS	3.6
8	1I	146	ALA	3.6
45	2n	18	VAL	3.6
21	1Z	168	GLU	3.6
33	1b	11	LEU	3.6
33	2b	172	ILE	3.6
40	2i	113	LYS	3.6
56	C	1	LYS	3.6
26	14	55	ARG	3.6
6	2G	146	TYR	3.6
56	C	3	ALA	3.6
1	1A	1105	G	3.6
1	2A	2147	G	3.6
32	2a	1027	C	3.6
33	2b	229	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
34	2c	157	ILE	3.6
1	1A	2135	U	3.6
32	2a	1532	U	3.6
53	2v	13	A	3.6
3	2D	2	ALA	3.6
21	2Z	173	ALA	3.6
20	2Y	1	MET	3.6
33	2b	230	VAL	3.6
50	2s	4	SER	3.6
22	10	3	HIS	3.6
33	1b	214	ILE	3.6
33	2b	185	ILE	3.6
21	1Z	170	THR	3.6
15	1T	130	ALA	3.6
32	1a	1286	A	3.6
33	2b	122	PHE	3.6
3	2D	38	LYS	3.6
21	2Z	149	SER	3.6
42	1k	51	LYS	3.6
45	2n	4	LYS	3.6
44	2m	78	ILE	3.5
52	2u	24	ARG	3.5
1	1A	1139	G	3.5
1	1A	1221	G	3.5
51	1t	103	GLY	3.5
14	2S	92	TYR	3.5
25	23	60	GLU	3.5
34	2c	23	TYR	3.5
34	2c	153	VAL	3.5
44	2m	27	LYS	3.5
50	2s	11	VAL	3.5
33	2b	166	ASP	3.5
33	2b	234	PRO	3.5
54	2w	71	C	3.5
26	14	63	TYR	3.5
32	1a	1003	G	3.5
40	2i	14	VAL	3.5
50	2s	5	LEU	3.5
40	1i	126	SER	3.5
34	1c	190	ARG	3.5
51	2t	22	ARG	3.5
45	2n	42	ILE	3.5

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Mol	Chain	Res	Type	RSRZ
1	1A	2157	A	3.5
32	1a	1035	A	3.5
21	2Z	152	ALA	3.5
22	20	2	ALA	3.5
50	2s	24	ALA	3.5
6	1G	48	GLU	3.5
21	2Z	144	LEU	3.5
22	20	69	PHE	3.5
26	24	50	VAL	3.5
24	12	69	ARG	3.5
1	1A	1102	G	3.5
1	2A	652(U)	G	3.5
1	2A	2168	G	3.5
32	2a	1002	G	3.5
22	20	5	LYS	3.5
34	1c	2	GLY	3.5
35	1d	167	GLY	3.5
45	2n	55	GLY	3.5
41	2j	77	PRO	3.5
21	2Z	150	LEU	3.5
35	2d	49	ARG	3.5
33	2b	127	ILE	3.4
35	1d	4	TYR	3.4
1	2A	2138	C	3.4
32	1a	1027	C	3.4
32	2a	1149	C	3.4
54	1w	61	C	3.4
54	2w	56	C	3.4
45	2n	22	THR	3.4
1	2A	2133	G	3.4
25	23	2	PRO	3.4
32	1a	1026	G	3.4
34	2c	129	ALA	3.4
32	2a	1035	A	3.4
32	2a	1286	A	3.4
26	24	52	THR	3.4
41	2j	67	THR	3.4
7	2H	15	VAL	3.4
1	2A	1171	G	3.4
6	1G	52	ILE	3.4
32	2a	1310	G	3.4
1	1A	2136	A	3.4

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Mol	Chain	Res	Type	RSRZ
1	2A	896	A	3.4
54	2y	69	A	3.4
29	27	48	LYS	3.4
3	1D	2	ALA	3.4
44	2m	75	ALA	3.4
50	2s	42	PRO	3.4
34	2c	131	ARG	3.4
45	2n	41	ARG	3.4
1	1A	932	C	3.4
1	1A	2167	C	3.4
1	2A	2145	C	3.4
32	2a	1065	U	3.4
33	2b	200	ILE	3.4
51	1t	74	LYS	3.4
1	1A	942	A	3.4
32	1a	1030(D)	A	3.4
32	2a	1447	A	3.4
54	2y	66	A	3.4
26	24	57	GLU	3.4
6	2G	53	LEU	3.4
33	2b	154	LEU	3.4
38	1g	2	ALA	3.4
52	1u	24	ARG	3.4
33	1b	17	PHE	3.4
34	2c	128	PHE	3.4
45	2n	25	VAL	3.4
41	2j	96	ILE	3.3
54	2w	4	U	3.3
54	2y	67	U	3.3
6	2G	2	PRO	3.3
20	2Y	73	ARG	3.3
41	2j	90	LEU	3.3
44	2m	58	GLU	3.3
44	2m	94	ARG	3.3
45	2n	38	GLY	3.3
50	2s	22	LEU	3.3
1	2A	1847	A	3.3
40	2i	122	ALA	3.3
54	1w	73	A	3.3
32	1a	1024	G	3.3
32	2a	1356	G	3.3
1	2A	2167	U	3.3

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Mol	Chain	Res	Type	RSRZ
45	2n	21	TYR	3.3
50	2s	77	THR	3.3
6	2G	164	GLU	3.3
9	2N	8	GLN	3.3
6	2G	159	VAL	3.3
1	2A	2154	G	3.3
32	2a	973	G	3.3
32	2a	1190	G	3.3
54	1w	49	G	3.3
14	1S	3	ARG	3.3
41	2j	66	ARG	3.3
33	2b	187	LEU	3.3
36	2e	22	GLY	3.3
33	2b	7	VAL	3.3
33	2b	57	PHE	3.3
34	2c	152	ILE	3.3
34	2c	182	ILE	3.3
1	1A	1123	A	3.3
32	2a	1001	A	3.3
14	2S	3	ARG	3.3
32	2a	1224	G	3.3
52	2u	23	PRO	3.3
33	2b	148	TYR	3.3
42	2k	13	GLN	3.3
50	2s	84	GLY	3.3
4	2E	204	ALA	3.3
34	2c	189	ALA	3.3
14	2S	35	ILE	3.3
40	2i	109	VAL	3.3
50	1s	12	ASP	3.3
32	2a	1030(B)	C	3.2
32	2a	1054	C	3.2
26	24	61	ARG	3.2
1	1A	1141	A	3.2
21	2Z	166	SER	3.2
33	2b	95	GLN	3.2
45	2n	60	SER	3.2
33	2b	31	TYR	3.2
51	2t	103	GLY	3.2
51	2t	97	ALA	3.2
1	2A	2157	G	3.2
33	2b	152	PHE	3.2

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Mol	Chain	Res	Type	RSRZ
33	2b	201	ILE	3.2
1	1A	1143	U	3.2
54	1w	47	U	3.2
40	2i	66	ARG	3.2
45	2n	29	ARG	3.2
51	1t	22	ARG	3.2
1	1A	933	C	3.2
47	1p	6	LEU	3.2
51	1t	10	LEU	3.2
54	1y	36	C	3.2
6	2G	29	TRP	3.2
38	2g	151	TYR	3.2
34	2c	57	ILE	3.2
18	2W	92	ARG	3.2
32	2a	1032	G	3.2
33	2b	145	LEU	3.2
40	1i	56	LEU	3.2
1	2A	2136	C	3.2
26	24	66	SER	3.2
34	2c	24	ALA	3.2
21	2Z	99	TYR	3.2
42	2k	25	TYR	3.2
50	2s	52	TYR	3.2
21	2Z	174	VAL	3.2
54	1y	35	A	3.2
36	2e	81	GLU	3.2
41	2j	64	GLU	3.2
1	2A	883	G	3.2
1	2A	2110	G	3.2
1	2A	2166	G	3.2
32	1a	1033	G	3.2
32	2a	1030(A)	G	3.2
32	2a	1202	G	3.2
34	2c	167	TRP	3.2
33	2b	164	VAL	3.2
34	1c	207	VAL	3.2
54	1y	13	C	3.1
6	2G	91	ARG	3.1
40	2i	83	ARG	3.1
44	2m	104	ARG	3.1
34	2c	4	LYS	3.1
19	2X	95	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
53	1v	14	A	3.1
21	2Z	121	HIS	3.1
36	2e	29	GLY	3.1
1	2A	2109	U	3.1
32	1a	65	U	3.1
41	1j	4	ILE	3.1
41	2j	23	ILE	3.1
1	1A	1114	G	3.1
6	1G	146	TYR	3.1
32	1a	1036	G	3.1
32	2a	1024	G	3.1
3	1D	275	LYS	3.1
6	2G	128	ARG	3.1
33	1b	130	ARG	3.1
10	2O	1	MET	3.1
6	2G	3	LEU	3.1
40	2i	99	LEU	3.1
54	1w	70	C	3.1
9	2N	69	GLN	3.1
1	2A	2170	A	3.1
32	1a	1503	A	3.1
34	2c	194	GLY	3.1
8	2I	146	ALA	3.1
41	1j	74	ILE	3.1
50	2s	19	VAL	3.1
7	2H	175	LYS	3.1
33	2b	156	LYS	3.1
38	1g	154	TYR	3.1
34	2c	181	ASN	3.1
34	2c	87	LEU	3.1
1	1A	1135	G	3.1
1	2A	2159	G	3.1
2	2B	119	G	3.1
32	1a	1034	G	3.1
32	2a	1036	G	3.1
33	2b	19	HIS	3.1
54	1w	1	G	3.1
40	2i	123	PRO	3.1
1	2A	888	C	3.1
1	2A	1536	C	3.1
41	2j	42	THR	3.1
33	2b	99	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
44	2m	95	GLY	3.1
33	2b	207	ALA	3.1
33	2b	223	ILE	3.1
44	2m	22	ILE	3.1
1	2A	2173	A	3.1
3	2D	275	LYS	3.1
33	2b	71	VAL	3.1
34	2c	140	ARG	3.1
34	2c	198	VAL	3.1
43	2l	18	VAL	3.1
26	24	67	TYR	3.1
32	2a	1150	U	3.1
34	2c	32	LEU	3.1
40	2i	91	ASP	3.1
6	2G	46	ALA	3.1
33	2b	123	ALA	3.1
40	1i	106	ALA	3.1
44	1m	121	LYS	3.1
46	2o	88	ARG	3.1
1	1A	935	C	3.1
1	1A	2159	C	3.1
33	2b	15	VAL	3.1
41	2j	54	PHE	3.1
32	2a	1531	A	3.0
54	2y	73	A	3.0
22	20	84	LEU	3.0
43	1l	64	TYR	3.0
10	1O	108	GLU	3.0
40	1i	2	GLU	3.0
40	2i	118	LYS	3.0
33	2b	214	ILE	3.0
13	2R	68	ARG	3.0
34	2c	120	VAL	3.0
1	1A	1145	G	3.0
1	2A	2153	G	3.0
32	1a	1031	G	3.0
32	2a	1182	G	3.0
54	1w	2	G	3.0
1	2A	889	C	3.0
1	2A	2140	C	3.0
1	2A	2174	C	3.0
32	2a	1114	C	3.0

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Mol	Chain	Res	Type	RSRZ
32	2a	1260	C	3.0
33	1b	129	GLU	3.0
41	2j	78	ASN	3.0
44	2m	21	TYR	3.0
42	2k	124	LYS	3.0
1	1A	941	U	3.0
32	2a	1257	U	3.0
44	2m	91	ARG	3.0
50	2s	29	ARG	3.0
50	2s	40	ILE	3.0
36	2e	67	VAL	3.0
9	2N	112	LEU	3.0
14	2S	48	LEU	3.0
34	2c	47	LEU	3.0
45	2n	6	LEU	3.0
40	2i	4	TYR	3.0
1	1A	2181	G	3.0
54	1w	15	G	3.0
54	1w	18	G	3.0
54	2y	5	G	3.0
54	2y	22	G	3.0
1	1A	944	C	3.0
53	1v	24	C	3.0
1	1A	2180	A	3.0
1	1A	2195	A	3.0
6	1G	51	ARG	3.0
41	2j	60	ARG	3.0
11	2P	28	GLY	3.0
52	2u	8	THR	3.0
26	24	42	PHE	3.0
35	1d	194	LEU	3.0
21	1Z	149	SER	3.0
34	2c	90	GLU	3.0
46	2o	48	LYS	3.0
51	2t	9	ASN	3.0
42	1k	25	TYR	3.0
34	2c	79	ARG	3.0
34	2c	8	ILE	3.0
38	1g	81	GLY	3.0
44	2m	112	GLY	3.0
1	2A	1533	G	3.0
32	2a	971	G	3.0

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Mol	Chain	Res	Type	RSRZ
32	2a	1001(A)	G	3.0
40	2i	15	ALA	3.0
45	2n	5	ALA	3.0
5	2F	89	VAL	3.0
32	2a	1357	A	3.0
33	2b	70	PHE	3.0
33	2b	112	VAL	3.0
35	1d	110	PHE	3.0
40	1i	59	PHE	3.0
54	2y	35	A	3.0
32	2a	1205	U	2.9
33	2b	134	GLU	2.9
22	20	9	SER	2.9
41	1j	76	ASN	2.9
20	2Y	55	TYR	2.9
38	2g	85	TYR	2.9
38	1g	155	ARG	2.9
40	2i	128	ARG	2.9
47	1p	68	ASP	2.9
51	1t	8	ARG	2.9
26	24	54	GLY	2.9
33	2b	72	GLY	2.9
41	2j	48	THR	2.9
9	2N	140	VAL	2.9
21	2Z	161	VAL	2.9
36	2e	45	PHE	2.9
41	2j	44	VAL	2.9
34	2c	42	LEU	2.9
51	1t	99	LEU	2.9
1	1A	936	C	2.9
1	1A	1099	C	2.9
1	1A	2141	A	2.9
1	1A	2147	G	2.9
1	1A	2179	G	2.9
1	2A	2169	A	2.9
1	2A	2319	G	2.9
32	1a	630	G	2.9
32	2a	1019	C	2.9
42	1k	92	GLU	2.9
53	2v	15	A	2.9
54	2w	66	A	2.9
56	B	4	PRO	2.9

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Mol	Chain	Res	Type	RSRZ
54	2y	7	U	2.9
52	2u	18	TYR	2.9
33	2b	18	GLY	2.9
6	2G	15	VAL	2.9
33	2b	163	PHE	2.9
41	2j	94	VAL	2.9
43	2l	32	PHE	2.9
44	2m	19	LEU	2.9
49	1r	78	LEU	2.9
8	2I	85	GLU	2.9
16	2U	89	GLU	2.9
35	1d	169	LYS	2.9
40	2i	117	HIS	2.9
34	2c	73	PRO	2.9
41	2j	37	PRO	2.9
6	2G	76	SER	2.9
1	1A	1144	A	2.9
26	24	62	ARG	2.9
32	2a	983	A	2.9
32	2a	1285	A	2.9
32	2a	1363	C	2.9
35	2d	132	ARG	2.9
1	1A	927	G	2.9
1	1A	1111	U	2.9
1	2A	2149	G	2.9
32	2a	1003	G	2.9
54	1y	33	U	2.9
54	2y	15	G	2.9
6	2G	12	TYR	2.9
7	2H	136	ILE	2.9
41	1j	6	ILE	2.9
44	2m	87	TYR	2.9
6	2G	42	GLY	2.9
52	2u	11	GLY	2.9
44	2m	116	THR	2.9
56	B	1	ALA	2.9
6	2G	133	LEU	2.9
20	2Y	54	LYS	2.9
33	1b	10	LEU	2.9
34	2c	33	LEU	2.9
41	2j	88	LEU	2.9
21	1Z	151	HIS	2.9

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Mol	Chain	Res	Type	RSRZ
21	2Z	169	GLU	2.9
40	2i	110	GLU	2.9
39	2h	70	GLN	2.9
6	2G	51	ARG	2.9
34	2c	190	ARG	2.9
38	2g	79	ARG	2.9
41	2j	51	ARG	2.9
47	1p	81	ARG	2.9
50	2s	53	ASN	2.9
26	24	51	ASP	2.9
1	1A	1113	A	2.9
1	1A	1116	A	2.9
1	1A	2158	C	2.9
1	1A	2164	C	2.9
32	1a	1025	U	2.9
32	2a	969	A	2.9
33	2b	199	TYR	2.9
40	2i	114	TYR	2.9
54	1w	13	C	2.9
54	1w	56	C	2.9
54	1y	14	A	2.9
54	2y	51	C	2.9
47	1p	69	THR	2.9
33	2b	138	LEU	2.9
36	2e	31	LEU	2.9
38	2g	12	LEU	2.9
44	2m	31	LYS	2.9
51	2t	99	LEU	2.9
54	1w	3	G	2.9
54	1w	19	G	2.9
54	2y	10	G	2.9
40	2i	2	GLU	2.8
33	2b	125	PRO	2.8
33	2b	202	PRO	2.8
34	2c	88	ARG	2.8
38	2g	5	ARG	2.8
51	1t	86	ARG	2.8
50	2s	34	TRP	2.8
34	2c	5	ILE	2.8
3	1D	38	LYS	2.8
34	2c	29	TYR	2.8
36	2e	85	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
41	2j	10	GLY	2.8
45	2n	28	GLY	2.8
52	2u	2	GLY	2.8
21	2Z	157	LEU	2.8
26	24	24	THR	2.8
33	2b	158	LEU	2.8
40	2i	7	THR	2.8
44	2m	56	LEU	2.8
1	1A	1072	U	2.8
21	1Z	105	VAL	2.8
32	2a	974	A	2.8
54	1w	67	U	2.8
1	1A	1122	C	2.8
1	2A	2297	C	2.8
32	2a	1214	C	2.8
39	2h	99	GLU	2.8
36	2e	10	MET	2.8
39	2h	9	MET	2.8
26	24	55	ARG	2.8
20	2Y	57	GLN	2.8
32	1a	1032	G	2.8
38	2g	32	ARG	2.8
54	2w	1	G	2.8
54	2w	49	G	2.8
54	2y	18	G	2.8
36	2e	13	ILE	2.8
40	2i	95	LYS	2.8
51	1t	69	GLY	2.8
21	1Z	155	LEU	2.8
34	2c	193	TYR	2.8
35	1d	188	LEU	2.8
33	2b	161	ALA	2.8
34	2c	200	ALA	2.8
41	1j	32	ALA	2.8
9	2N	9	VAL	2.8
35	1d	140	VAL	2.8
40	2i	86	VAL	2.8
40	2i	101	PHE	2.8
47	1p	1	MET	2.8
1	1A	1220	U	2.8
38	2g	4	ARG	2.8
1	1A	2139	A	2.8

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Mol	Chain	Res	Type	RSRZ
32	1a	344	A	2.8
32	2a	1183	A	2.8
53	1v	13	A	2.8
1	1A	2196	C	2.8
32	1a	840	C	2.8
32	2a	1030	C	2.8
32	2a	1325	C	2.8
1	2A	2120	G	2.8
1	2A	2207	G	2.8
32	2a	1274	G	2.8
50	2s	23	ASN	2.8
54	1w	50	G	2.8
54	2y	44	G	2.8
34	2c	52	LEU	2.8
34	2c	171	GLY	2.8
6	2G	126	ASP	2.8
40	2i	79	LEU	2.8
50	2s	30	LEU	2.8
6	2G	161	THR	2.8
34	2c	86	VAL	2.8
34	2c	206	GLU	2.8
50	2s	67	VAL	2.8
33	1b	202	PRO	2.8
36	2e	25	ARG	2.8
34	2c	162	GLN	2.8
1	1A	2189	U	2.8
1	2A	2118	U	2.8
32	1a	202	U	2.8
41	2j	75	ILE	2.8
1	1A	1110	C	2.8
32	2a	972	C	2.8
54	2y	36	C	2.8
22	10	84	LEU	2.8
26	14	64	GLY	2.8
34	2c	91	LEU	2.8
41	1j	88	LEU	2.8
41	2j	8	LEU	2.8
45	2n	44	LEU	2.8
26	14	56	VAL	2.8
33	2b	120	ALA	2.8
34	1c	99	VAL	2.8
36	2e	55	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
41	1j	100	THR	2.8
22	20	55	ARG	2.8
32	1a	1030(C)	G	2.8
32	2a	976	G	2.8
35	1d	153	ARG	2.8
50	2s	78	ARG	2.8
54	1y	5	G	2.8
54	2w	3	G	2.8
54	2y	2	G	2.8
33	2b	26	PRO	2.7
41	2j	53	PRO	2.7
26	24	28	LYS	2.7
50	2s	18	LYS	2.7
41	2j	38	ILE	2.7
45	1n	7	ILE	2.7
1	1A	12	U	2.7
1	2A	958	U	2.7
1	2A	2132	U	2.7
21	2Z	70	LEU	2.7
33	2b	180	LEU	2.7
42	2k	117	ASN	2.7
1	1A	572	A	2.7
33	2b	101	MET	2.7
41	2j	62	HIS	2.7
45	2n	49	HIS	2.7
1	1A	696	C	2.7
1	1A	940	C	2.7
1	2A	886	C	2.7
1	2A	2139	C	2.7
2	2B	6	C	2.7
7	2H	52	VAL	2.7
21	2Z	164	ALA	2.7
27	25	29	THR	2.7
32	1a	1030(B)	C	2.7
32	2a	962	C	2.7
32	2a	1223	C	2.7
33	2b	86	GLU	2.7
35	2d	73	ARG	2.7
38	1g	4	ARG	2.7
40	2i	41	VAL	2.7
44	2m	18	ALA	2.7
54	2w	60	C	2.7

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Mol	Chain	Res	Type	RSRZ
44	2m	23	TYR	2.7
47	1p	38	TYR	2.7
47	1p	82	GLN	2.7
51	1t	14	LYS	2.7
52	2u	20	LYS	2.7
32	1a	1023	G	2.7
32	2a	1273	G	2.7
54	1y	15	G	2.7
54	2y	57	G	2.7
40	2i	63	ILE	2.7
47	2p	19	ILE	2.7
6	2G	175	LEU	2.7
39	2h	2	LEU	2.7
41	2j	71	LEU	2.7
12	2Q	100	GLY	2.7
24	22	1	MET	2.7
46	1o	89	GLY	2.7
54	1y	12	U	2.7
54	2y	47	U	2.7
33	2b	53	ARG	2.7
33	2b	136	VAL	2.7
35	1d	3	ARG	2.7
42	1k	36	ASP	2.7
1	1A	1119	A	2.7
1	1A	1132	A	2.7
21	2Z	167	PRO	2.7
51	2t	98	PRO	2.7
1	1A	34	C	2.7
1	2A	2803	C	2.7
32	2a	980	C	2.7
21	2Z	57	ILE	2.7
34	2c	84	ILE	2.7
33	2b	11	LEU	2.7
33	2b	149	LEU	2.7
32	2a	1021	G	2.7
32	2a	1026	G	2.7
32	2a	1221	G	2.7
32	2a	1276	G	2.7
32	2a	1353	G	2.7
34	2c	176	HIS	2.7
51	2t	96	GLY	2.7
54	1y	24	G	2.7

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Mol	Chain	Res	Type	RSRZ
54	2w	15	G	2.7
54	2w	50	G	2.7
6	1G	76	SER	2.7
25	13	60	GLU	2.7
42	2k	126	ARG	2.7
6	2G	102	PHE	2.7
9	2N	73	THR	2.7
36	2e	6	PHE	2.7
50	2s	58	VAL	2.7
1	1A	1127	U	2.7
32	2a	992	U	2.7
40	2i	127	LYS	2.7
41	2j	41	PRO	2.7
48	2q	37	LYS	2.7
54	2y	33	U	2.7
32	2a	532	A	2.7
1	1A	2807	C	2.7
1	2A	897	C	2.7
32	2a	979	C	2.7
32	2a	1354	C	2.7
54	2y	48	C	2.7
6	2G	34	LEU	2.7
34	2c	178	LEU	2.7
40	2i	56	LEU	2.7
11	2P	26	GLY	2.7
12	2Q	10	ARG	2.7
18	1W	112	GLY	2.7
34	2c	197	GLY	2.7
43	1l	63	GLY	2.7
21	2Z	172	ALA	2.7
33	2b	105	PHE	2.7
36	2e	41	VAL	2.7
45	1n	13	THR	2.7
45	1n	20	ALA	2.7
45	2n	10	ALA	2.7
47	1p	80	PHE	2.7
49	1r	20	ALA	2.7
1	1A	2155	G	2.6
1	2A	892	G	2.6
2	2B	23	G	2.6
32	1a	78	G	2.6
32	1a	1030(A)	G	2.6

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Mol	Chain	Res	Type	RSRZ
6	2G	25	TYR	2.6
26	14	67	TYR	2.6
34	2c	39	ILE	2.6
50	2s	49	ILE	2.6
21	1Z	1	MET	2.6
1	1A	1222	A	2.6
14	2S	58	LEU	2.6
21	2Z	155	LEU	2.6
45	2n	40	CYS	2.6
48	2q	98	LEU	2.6
54	2y	14	A	2.6
55	2x	76	A	2.6
6	2G	118	ARG	2.6
33	2b	40	HIS	2.6
36	2e	27	ARG	2.6
41	1j	46	ARG	2.6
44	2m	88	ARG	2.6
56	B	5	HIS	2.6
10	2O	74	GLY	2.6
1	2A	2175	C	2.6
33	1b	22	LYS	2.6
54	2w	32	C	2.6
34	2c	71	ALA	2.6
38	2g	127	ALA	2.6
47	1p	2	VAL	2.6
47	1p	48	TRP	2.6
12	2Q	104	PHE	2.6
39	2h	72	PRO	2.6
16	1U	117	GLN	2.6
34	2c	107	GLN	2.6
42	2k	36	ASP	2.6
1	2A	2160	G	2.6
1	2A	2165	G	2.6
20	2Y	5	MET	2.6
50	2s	66	MET	2.6
32	2a	1000	U	2.6
54	1w	4	U	2.6
54	2w	18	G	2.6
54	2w	67	U	2.6
33	2b	98	LEU	2.6
38	2g	16	LEU	2.6
40	2i	96	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
45	2n	47	LEU	2.6
41	2j	68	HIS	2.6
51	2t	8	ARG	2.6
6	2G	74	LYS	2.6
12	2Q	30	GLY	2.6
30	28	29	LYS	2.6
33	2b	12	GLU	2.6
34	1c	90	GLU	2.6
34	2c	199	LYS	2.6
40	2i	67	GLY	2.6
32	1a	143	A	2.6
32	2a	1123	A	2.6
7	2H	17	VAL	2.6
36	1e	21	ALA	2.6
40	2i	119	ALA	2.6
42	2k	23	ALA	2.6
44	2m	72	ALA	2.6
50	2s	45	VAL	2.6
50	2s	60	VAL	2.6
33	1b	234	PRO	2.6
34	2c	191	THR	2.6
1	1A	1146	C	2.6
1	2A	885	C	2.6
32	2a	948	C	2.6
32	2a	1018	C	2.6
32	2a	1039	C	2.6
34	1c	62	ASP	2.6
54	2y	25	C	2.6
54	2y	71	C	2.6
6	2G	157	ILE	2.6
33	1b	127	ILE	2.6
34	2c	134	ILE	2.6
24	22	35	LEU	2.6
39	1h	20	TYR	2.6
7	1H	3	ARG	2.6
34	2c	6	HIS	2.6
38	2g	153	HIS	2.6
40	2i	42	ARG	2.6
41	2j	45	ARG	2.6
45	1n	3	ARG	2.6
1	2A	2150	U	2.6
32	2a	1056	U	2.6

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Mol	Chain	Res	Type	RSRZ
11	2P	74	GLU	2.6
22	20	6	GLY	2.6
41	1j	31	GLY	2.6
43	2l	63	GLY	2.6
1	1A	1117	G	2.6
1	2A	1042	G	2.6
1	2A	2751	G	2.6
32	2a	1186	G	2.6
54	2y	1	G	2.6
6	2G	5	VAL	2.6
21	2Z	95	PRO	2.6
34	2c	3	ASN	2.6
34	2c	133	ALA	2.6
35	1d	37	PRO	2.6
36	2e	21	ALA	2.6
38	2g	25	ALA	2.6
40	2i	21	PRO	2.6
48	2q	11	VAL	2.6
50	2s	33	THR	2.6
1	1A	945	A	2.6
1	2A	229	A	2.6
32	1a	149	A	2.6
32	2a	1092	A	2.6
54	2y	21	A	2.6
8	2I	88	ILE	2.6
1	2A	645	C	2.6
1	2A	2137	C	2.6
11	2P	6	LEU	2.6
32	2a	1113	C	2.6
32	2a	1119	C	2.6
32	2a	1362	C	2.6
54	1y	11	C	2.6
54	2y	65	C	2.6
11	2P	15	ARG	2.6
33	2b	21	ARG	2.6
35	1d	138	TYR	2.6
21	2Z	145	GLU	2.6
33	2b	49	GLU	2.6
45	2n	46	GLU	2.6
23	2l	79	GLY	2.6
40	2i	39	GLY	2.6
6	2G	31	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
21	2Z	68	PRO	2.6
32	2a	1219	U	2.6
33	2b	93	VAL	2.6
33	2b	197	VAL	2.6
33	2b	94	ASN	2.6
44	2m	101	GLN	2.6
47	1p	59	TRP	2.5
1	1A	1109	G	2.5
1	1A	2173	G	2.5
8	2I	20	ASP	2.5
32	2a	1048	G	2.5
47	1p	36	ILE	2.5
50	2s	62	ILE	2.5
37	2f	21	LEU	2.5
44	2m	81	LEU	2.5
54	2w	73	A	2.5
20	2Y	23	ARG	2.5
34	1c	79	ARG	2.5
40	2i	121	ARG	2.5
41	2j	43	ARG	2.5
50	2s	55	LYS	2.5
40	2i	36	TYR	2.5
41	1j	64	GLU	2.5
1	1A	1121	C	2.5
32	1a	1006	C	2.5
32	2a	985	C	2.5
32	2a	1115	C	2.5
54	1y	70	C	2.5
54	2w	70	C	2.5
35	1d	87	GLY	2.5
41	2j	36	GLY	2.5
7	2H	45	VAL	2.5
21	2Z	105	VAL	2.5
21	2Z	139	VAL	2.5
35	1d	121	VAL	2.5
44	2m	15	VAL	2.5
44	2m	113	PRO	2.5
5	2F	166	ALA	2.5
34	2c	53	ALA	2.5
41	2j	27	ALA	2.5
45	2n	37	PHE	2.5
34	2c	192	THR	2.5

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Mol	Chain	Res	Type	RSRZ
40	2i	23	ASN	2.5
47	2p	82	GLN	2.5
22	20	43	THR	2.5
12	2Q	1	MET	2.5
54	2y	4	U	2.5
45	2n	61	TRP	2.5
39	2h	73	ASP	2.5
33	2b	68	ILE	2.5
6	2G	172	LEU	2.5
41	1j	8	LEU	2.5
44	2m	99	ARG	2.5
50	2s	6	LYS	2.5
50	2s	20	LEU	2.5
1	2A	11	G	2.5
1	2A	2206	G	2.5
1	2A	887	A	2.5
26	24	25	TYR	2.5
32	2a	1213	A	2.5
35	2d	179	GLU	2.5
35	1d	2	GLY	2.5
45	2n	51	GLY	2.5
8	2I	92	VAL	2.5
21	2Z	71	VAL	2.5
34	2c	68	VAL	2.5
12	2Q	136	ALA	2.5
21	1Z	104	PHE	2.5
21	1Z	136	PHE	2.5
1	1A	939	C	2.5
1	1A	2186	C	2.5
1	2A	2164	C	2.5
54	1w	68	C	2.5
54	2y	56	C	2.5
8	2I	86	THR	2.5
22	20	10	THR	2.5
51	1t	75	ASN	2.5
5	2F	172	TRP	2.5
6	1G	182	LYS	2.5
14	2S	59	LYS	2.5
14	2S	93	LYS	2.5
1	1A	1112	U	2.5
12	2Q	16	ARG	2.5
19	2X	92	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
26	24	9	LEU	2.5
31	29	12	ASP	2.5
35	1d	70	ILE	2.5
35	1d	73	ARG	2.5
41	1j	5	ARG	2.5
41	2j	6	ILE	2.5
44	1m	120	LYS	2.5
36	2e	151	LEU	2.5
41	2j	46	ARG	2.5
44	1m	102	ARG	2.5
47	1p	47	ASP	2.5
54	2y	64	U	2.5
55	2x	47	U	2.5
21	1Z	169	GLU	2.5
33	1b	12	GLU	2.5
33	1b	31	TYR	2.5
46	1o	69	TYR	2.5
34	1c	158	GLY	2.5
43	1l	29	GLY	2.5
51	1t	47	GLY	2.5
1	2A	866	A	2.5
1	2A	1537	G	2.5
1	2A	2148	G	2.5
21	2Z	86	VAL	2.5
32	2a	1151	A	2.5
34	2c	64	VAL	2.5
40	2i	28	VAL	2.5
54	1y	38	A	2.5
33	2b	34	ALA	2.5
34	2c	149	ALA	2.5
40	2i	106	ALA	2.5
41	2j	26	ALA	2.5
44	1m	2	ALA	2.5
44	2m	118	ALA	2.5
33	2b	22	LYS	2.5
33	2b	179	LYS	2.5
18	1W	37	ARG	2.5
21	1Z	171	ILE	2.5
34	2c	127	ARG	2.5
35	2d	158	ILE	2.5
38	1g	32	ARG	2.5
39	2h	134	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
41	1j	29	ARG	2.5
43	1l	7	ILE	2.5
44	2m	80	ARG	2.5
48	2q	92	ARG	2.5
51	1t	100	ILE	2.5
1	1A	2130	C	2.5
32	1a	91	C	2.5
32	1a	1028	C	2.5
32	2a	1277	C	2.5
34	2c	36	ASP	2.5
54	2y	13	C	2.5
50	2s	14	HIS	2.5
1	1A	1147	U	2.5
1	1A	2154	U	2.5
22	20	68	GLU	2.5
33	1b	134	GLU	2.5
54	2y	12	U	2.5
39	2h	48	TYR	2.5
40	1i	57	GLY	2.5
40	2i	92	TYR	2.5
41	2j	31	GLY	2.5
34	2c	7	PRO	2.5
42	2k	75	TYR	2.5
6	2G	155	MET	2.5
33	1b	15	VAL	2.5
44	1m	117	VAL	2.5
21	1Z	152	ALA	2.5
21	2Z	136	PHE	2.5
33	2b	181	PHE	2.5
34	2c	67	THR	2.4
1	1A	937	A	2.4
1	1A	1134	A	2.4
3	1D	176	ARG	2.4
20	2Y	92	ASN	2.4
32	2a	1005	A	2.4
36	2e	18	ARG	2.4
39	2h	84	ARG	2.4
41	2j	28	ARG	2.4
52	2u	6	ARG	2.4
54	2y	23	A	2.4
5	2F	181	LEU	2.4
42	2k	103	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	1A	1120	G	2.4
41	2j	58	ASP	2.4
44	2m	64	TRP	2.4
32	1a	1008	C	2.4
54	1w	60	C	2.4
55	2x	17	C	2.4
50	2s	8	GLY	2.4
55	1x	20	U	2.4
34	2c	109	PRO	2.4
44	1m	87	TYR	2.4
34	2c	173	VAL	2.4
44	2m	65	LYS	2.4
50	2s	32	LYS	2.4
44	2m	30	ALA	2.4
33	1b	21	ARG	2.4
36	2e	64	ARG	2.4
38	2g	149	ARG	2.4
45	2n	57	ARG	2.4
33	2b	221	LEU	2.4
36	2e	130	ASN	2.4
35	1d	83	SER	2.4
1	1A	1091	A	2.4
1	1A	1131	A	2.4
1	1A	2156	A	2.4
1	2A	2126	A	2.4
32	2a	996	A	2.4
32	2a	1030(D)	A	2.4
36	2e	5	ASP	2.4
8	1I	117	GLU	2.4
24	22	11	GLU	2.4
34	2c	166	GLU	2.4
35	1d	24	GLU	2.4
43	1l	16	GLU	2.4
1	1A	938	G	2.4
1	1A	2174	G	2.4
1	2A	2318	G	2.4
54	1y	39	G	2.4
54	2w	2	G	2.4
54	2y	24	G	2.4
7	2H	12	PRO	2.4
33	2b	167	PRO	2.4
33	2b	232	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
35	1d	142	PRO	2.4
47	1p	78	GLY	2.4
6	2G	182	LYS	2.4
40	2i	116	LYS	2.4
43	1l	126	LYS	2.4
1	1A	2165	C	2.4
1	1A	2200	C	2.4
5	1F	89	VAL	2.4
34	2c	75	VAL	2.4
34	2c	76	VAL	2.4
1	2A	895	U	2.4
6	2G	163	ALA	2.4
33	2b	225	ALA	2.4
34	2c	137	ALA	2.4
38	2g	83	ALA	2.4
39	2h	16	ALA	2.4
44	1m	118	ALA	2.4
45	2n	16	PHE	2.4
45	2n	36	PHE	2.4
30	18	46	ARG	2.4
46	2o	54	ARG	2.4
51	1t	25	ARG	2.4
7	2H	106	THR	2.4
21	2Z	76	LEU	2.4
26	14	52	THR	2.4
36	2e	12	LEU	2.4
41	2j	15	THR	2.4
21	2Z	153	SER	2.4
24	22	66	GLU	2.4
40	2i	105	ASP	2.4
1	2A	2602	A	2.4
7	2H	29	PRO	2.4
26	24	2	LYS	2.4
32	2a	1016	A	2.4
54	1w	58	A	2.4
17	1V	101	GLY	2.4
22	20	42	GLY	2.4
34	1c	9	GLY	2.4
45	1n	51	GLY	2.4
50	2s	59	PRO	2.4
6	2G	149	VAL	2.4
1	2A	2151	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	2A	2802	G	2.4
14	2S	97	ARG	2.4
15	1T	112	ARG	2.4
32	2a	1042	G	2.4
32	2a	1222	G	2.4
33	1b	163	PHE	2.4
34	2c	48	TYR	2.4
34	2c	59	ARG	2.4
39	2h	20	TYR	2.4
47	1p	75	ARG	2.4
54	1y	10	G	2.4
25	23	53	LEU	2.4
34	1c	77	ILE	2.4
36	2e	71	LEU	2.4
1	1A	271	U	2.4
19	2X	45	THR	2.4
42	2k	31	THR	2.4
50	2s	63	THR	2.4
1	2A	1509	C	2.4
32	2a	934	C	2.4
32	2a	995	C	2.4
54	1w	71	C	2.4
54	1y	25	C	2.4
41	2j	83	GLU	2.4
44	2m	67	GLU	2.4
6	1G	126	ASP	2.4
41	2j	89	ASP	2.4
20	1Y	1	MET	2.4
22	10	5	LYS	2.4
43	1l	23	LYS	2.4
45	2n	15	LYS	2.4
48	2q	87	LYS	2.4
39	2h	67	PRO	2.4
19	1X	94	GLY	2.4
47	1p	37	GLY	2.4
35	2d	45	GLN	2.4
15	2T	108	ARG	2.4
17	2V	52	VAL	2.4
33	1b	93	VAL	2.4
33	2b	153	ARG	2.4
36	2e	34	VAL	2.4
49	2r	86	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	1A	678	A	2.4
1	1A	1130	A	2.4
1	2A	899	A	2.4
1	2A	917	A	2.4
32	2a	965	A	2.4
32	2a	1250	A	2.4
40	2i	18	PHE	2.4
54	1y	66	A	2.4
21	2Z	33	LEU	2.3
33	2b	10	LEU	2.3
33	2b	69	LEU	2.3
42	2k	50	TYR	2.3
44	2m	34	LEU	2.3
6	2G	114	ILE	2.3
41	2j	50	ILE	2.3
9	2N	45	ASN	2.3
1	1A	1137	G	2.3
1	1A	2227	G	2.3
1	2A	10	G	2.3
1	2A	2308	G	2.3
32	1a	79	G	2.3
4	1E	73	GLU	2.3
32	1a	1000	U	2.3
32	2a	202	U	2.3
32	2a	963	G	2.3
32	2a	997	U	2.3
32	2a	1009	G	2.3
32	2a	1020	U	2.3
32	2a	1030(C)	G	2.3
32	2a	1323	G	2.3
32	2a	1358	U	2.3
54	1y	45	G	2.3
54	2y	45	G	2.3
54	2y	63	G	2.3
55	1x	2	G	2.3
44	2m	69	GLU	2.3
50	2s	64	GLU	2.3
1	1A	931	C	2.3
1	2A	884	C	2.3
1	2A	898	C	2.3
1	2A	2163	C	2.3
26	14	69	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
32	2a	1262	C	2.3
32	2a	1359	C	2.3
48	2q	100	LYS	2.3
54	1w	72	C	2.3
54	1y	56	C	2.3
6	2G	142	PRO	2.3
7	2H	21	PRO	2.3
20	2Y	53	PRO	2.3
45	2n	27	CYS	2.3
11	2P	109	GLY	2.3
21	2Z	64	GLY	2.3
21	2Z	143	GLY	2.3
21	2Z	147	GLY	2.3
33	2b	89	GLY	2.3
34	2c	25	GLY	2.3
34	2c	51	GLY	2.3
35	2d	180	GLY	2.3
39	2h	90	GLY	2.3
33	2b	144	ARG	2.3
52	2u	10	ARG	2.3
21	2Z	96	VAL	2.3
33	1b	230	VAL	2.3
36	2e	69	VAL	2.3
36	2e	115	VAL	2.3
41	1j	72	VAL	2.3
12	2Q	65	PHE	2.3
29	27	45	ALA	2.3
33	1b	225	ALA	2.3
33	2b	44	LEU	2.3
6	2G	140	ILE	2.3
34	2c	14	ILE	2.3
52	2u	13	ILE	2.3
47	1p	39	TYR	2.3
45	1n	22	THR	2.3
54	2y	58	A	2.3
33	2b	50	GLU	2.3
45	2n	17	LYS	2.3
7	2H	2	SER	2.3
1	1A	2172	U	2.3
20	2Y	107	ASP	2.3
53	2v	23	U	2.3
1	2A	652(C)	G	2.3

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Mol	Chain	Res	Type	RSRZ
21	1Z	159	PRO	2.3
32	2a	1117	G	2.3
32	2a	1361	G	2.3
1	1A	943	C	2.3
1	1A	2162	C	2.3
31	29	21	GLY	2.3
32	1a	1030	C	2.3
32	2a	999	C	2.3
32	2a	1028	C	2.3
32	2a	1066	C	2.3
32	2a	1369	C	2.3
34	2c	13	GLY	2.3
34	2c	185	GLY	2.3
35	1d	132	ARG	2.3
35	2d	47	ARG	2.3
36	2e	99	GLY	2.3
42	1k	13	GLN	2.3
42	2k	102	GLY	2.3
44	2m	119	GLY	2.3
46	2o	89	GLY	2.3
51	1t	101	GLY	2.3
54	1y	48	C	2.3
54	2w	30	C	2.3
54	2y	68	C	2.3
7	2H	115	VAL	2.3
33	1b	136	VAL	2.3
34	2c	70	VAL	2.3
35	2d	164	ALA	2.3
40	1i	19	LEU	2.3
49	1r	76	LEU	2.3
34	1c	14	ILE	2.3
33	1b	40	HIS	2.3
6	2G	165	THR	2.3
40	1i	125	TYR	2.3
40	2i	62	TYR	2.3
15	1T	38	ASN	2.3
18	1W	60	ASN	2.3
21	1Z	2	GLU	2.3
33	2b	170	GLU	2.3
34	2c	27	LYS	2.3
1	2A	528	A	2.3
32	2a	1110	A	2.3

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Mol	Chain	Res	Type	RSRZ
32	2a	1229	A	2.3
32	2a	1503	A	2.3
54	1y	69	A	2.3
20	2Y	17	SER	2.3
35	1d	193	ASP	2.3
50	2s	35	SER	2.3
51	1t	11	SER	2.3
6	2G	17	PRO	2.3
14	2S	20	ARG	2.3
28	16	50	ARG	2.3
29	17	23	ARG	2.3
39	2h	69	ARG	2.3
44	1m	64	TRP	2.3
51	1t	80	ARG	2.3
52	1u	9	ARG	2.3
34	2c	78	GLY	2.3
36	2e	72	GLN	2.3
44	1m	95	GLY	2.3
32	2a	1040	U	2.3
7	2H	19	VAL	2.3
6	2G	180	PHE	2.3
14	2S	54	LEU	2.3
20	2Y	106	LEU	2.3
21	2Z	104	PHE	2.3
33	2b	17	PHE	2.3
39	1h	2	LEU	2.3
40	2i	19	LEU	2.3
47	2p	9	PHE	2.3
38	2g	49	ILE	2.3
46	1o	87	ILE	2.3
46	2o	87	ILE	2.3
51	1t	97	ALA	2.3
1	1A	928	G	2.3
1	1A	1101	G	2.3
1	1A	2133	C	2.3
1	1A	2168	C	2.3
1	2A	171	G	2.3
1	2A	2161	C	2.3
2	2B	64	C	2.3
14	2S	34	HIS	2.3
32	1a	163	C	2.3
32	1a	181	G	2.3

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Mol	Chain	Res	Type	RSRZ
32	1a	1029	C	2.3
32	1a	1038	C	2.3
32	2a	993	G	2.3
32	2a	1029	C	2.3
44	2m	92	HIS	2.3
54	1y	50	G	2.3
9	2N	83	LYS	2.3
20	2Y	34	LYS	2.3
33	2b	67	THR	2.3
33	2b	103	THR	2.3
33	2b	147	LYS	2.3
41	2j	14	LYS	2.3
33	2b	33	TYR	2.3
38	1g	8	GLU	2.3
8	2I	111	PRO	2.3
17	2V	50	PRO	2.3
26	14	68	ARG	2.3
40	1i	42	ARG	2.3
1	1A	2148	A	2.3
32	1a	1005	A	2.3
32	2a	975	A	2.3
32	2a	994	A	2.3
32	2a	1227	A	2.3
34	1c	107	GLN	2.3
54	1y	21	A	2.3
38	2g	156	TRP	2.3
6	2G	106	LEU	2.3
7	2H	79	VAL	2.3
33	2b	81	VAL	2.3
34	2c	101	LEU	2.3
35	1d	21	LEU	2.3
36	2e	53	LEU	2.3
40	2i	17	VAL	2.3
50	1s	5	LEU	2.3
1	2A	2172	U	2.2
1	2A	2189	U	2.2
26	24	5	ILE	2.2
32	2a	1159	U	2.2
32	2a	1235	U	2.2
34	1c	124	ILE	2.2
34	2c	92	ALA	2.2
34	2c	202	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
39	2h	111	ILE	2.2
51	2t	94	ALA	2.2
33	1b	19	HIS	2.2
33	2b	113	HIS	2.2
38	1g	153	HIS	2.2
20	2Y	46	LYS	2.2
35	1d	86	LYS	2.2
40	2i	11	LYS	2.2
45	2n	50	LYS	2.2
50	2s	28	LYS	2.2
40	1i	64	THR	2.2
43	2l	64	TYR	2.2
1	1A	155	C	2.2
1	2A	652(V)	C	2.2
32	2a	1112	C	2.2
54	2y	28	C	2.2
1	1A	160	G	2.2
1	1A	2188	G	2.2
1	2A	2124	G	2.2
1	2A	2127	G	2.2
41	1j	78	ASN	2.2
54	2y	52	G	2.2
6	2G	96	ARG	2.2
19	2X	68	ARG	2.2
21	2Z	87	ASP	2.2
48	2q	66	SER	2.2
56	B	2	GLY	2.2
6	2G	107	LEU	2.2
6	2G	111	LEU	2.2
33	2b	24	TRP	2.2
7	2H	11	VAL	2.2
7	2H	35	VAL	2.2
41	2j	72	VAL	2.2
1	1A	1100	A	2.2
1	2A	1508	A	2.2
1	2A	2134	A	2.2
1	2A	2158	A	2.2
32	2a	1004	A	2.2
32	2a	1268	A	2.2
33	2b	140	HIS	2.2
40	2i	81	ILE	2.2
54	1y	58	A	2.2

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Mol	Chain	Res	Type	RSRZ
20	2Y	29	GLU	2.2
32	2a	961	U	2.2
35	1d	179	GLU	2.2
36	2e	8	GLU	2.2
36	2e	16	THR	2.2
38	1g	151	TYR	2.2
40	1i	114	TYR	2.2
46	2o	69	TYR	2.2
11	2P	79	ARG	2.2
35	2d	131	ARG	2.2
7	2H	36	PRO	2.2
21	2Z	159	PRO	2.2
25	13	2	PRO	2.2
36	2e	52	PRO	2.2
1	1A	1150	C	2.2
32	2a	1043	C	2.2
32	2a	1317	C	2.2
54	2w	74	C	2.2
54	2y	75	C	2.2
1	1A	1584	G	2.2
1	1A	2169	G	2.2
12	2Q	23	GLY	2.2
21	1Z	147	GLY	2.2
7	2H	88	LEU	2.2
8	1I	12	LEU	2.2
17	2V	40	LEU	2.2
32	2a	1365	G	2.2
34	2c	80	GLY	2.2
36	2e	23	GLY	2.2
35	1d	155	LEU	2.2
54	1y	18	G	2.2
54	1y	22	G	2.2
54	2y	3	G	2.2
55	2x	2	G	2.2
33	2b	184	VAL	2.2
34	2c	55	VAL	2.2
47	1p	27	LYS	2.2
44	2m	9	ILE	2.2
56	C	7	HIS	2.2
6	2G	57	ALA	2.2
21	2Z	51	ALA	2.2
34	2c	60	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
44	2m	28	ALA	2.2
49	1r	24	ALA	2.2
49	2r	20	ALA	2.2
1	2A	890	A	2.2
20	2Y	12	THR	2.2
41	2j	61	GLU	2.2
32	2a	1188	A	2.2
1	2A	1026	U	2.2
1	2A	2122	U	2.2
34	2c	40	ARG	2.2
45	1n	12	ARG	2.2
40	2i	5	TYR	2.2
50	2s	61	TYR	2.2
7	2H	39	PRO	2.2
34	2c	37	GLN	2.2
50	2s	56	GLN	2.2
6	1G	82	LEU	2.2
7	2H	71	LEU	2.2
8	2I	68	LEU	2.2
8	2I	72	LEU	2.2
20	2Y	95	LYS	2.2
24	12	40	SER	2.2
40	2i	47	LEU	2.2
41	1j	58	ASP	2.2
45	1n	17	LYS	2.2
47	1p	43	LYS	2.2
7	2H	107	VAL	2.2
20	2Y	45	VAL	2.2
33	2b	219	VAL	2.2
34	2c	138	VAL	2.2
41	2j	49	VAL	2.2
1	1A	1125	C	2.2
2	2B	5	C	2.2
6	2G	23	PHE	2.2
21	2Z	124	ILE	2.2
32	2a	1045	C	2.2
32	2a	1282	C	2.2
35	1d	173	TRP	2.2
54	2y	11	C	2.2
15	2T	131	ALA	2.2
33	1b	188	ALA	2.2
1	1A	299	G	2.2

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Mol	Chain	Res	Type	RSRZ
1	1A	2178	G	2.2
1	1A	2190	G	2.2
1	2A	2131	G	2.2
32	2a	951	G	2.2
32	2a	1131	G	2.2
33	2b	231	GLU	2.2
54	2y	49	G	2.2
6	2G	33	ARG	2.2
18	2W	37	ARG	2.2
20	2Y	97	ARG	2.2
34	2c	164	ARG	2.2
38	2g	76	ARG	2.2
40	2i	111	ARG	2.2
50	2s	81	ARG	2.2
51	2t	86	ARG	2.2
1	1A	1092	A	2.2
1	2A	2310	A	2.2
32	2a	986	A	2.2
32	2a	1179	A	2.2
32	2a	1236	A	2.2
38	2g	154	TYR	2.2
44	2m	97	PRO	2.2
45	2n	54	PRO	2.2
6	2G	47	LYS	2.2
26	24	69	LYS	2.2
32	1a	1020	U	2.2
32	1a	1040	U	2.2
32	1a	1135	U	2.2
32	2a	1070	U	2.2
34	2c	28	GLN	2.2
54	1y	7	U	2.2
4	2E	195	LEU	2.2
6	2G	173	LEU	2.2
7	2H	48	GLY	2.2
21	2Z	125	LEU	2.2
23	21	46	LEU	2.2
23	21	98	LEU	2.2
33	2b	215	LEU	2.2
34	2c	175	LEU	2.2
36	2e	74	GLY	2.2
6	2G	156	ASP	2.2
12	1Q	1	MET	2.2

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Mol	Chain	Res	Type	RSRZ
33	2b	48	MET	2.2
41	1j	89	ASP	2.2
18	2W	111	HIS	2.2
19	2X	8	ILE	2.2
33	1b	165	VAL	2.2
36	2e	51	VAL	2.2
36	2e	105	VAL	2.2
45	2n	32	SER	2.2
33	1b	200	ILE	2.2
45	2n	56	VAL	2.2
46	2o	27	VAL	2.2
8	2I	94	ALA	2.1
33	2b	77	ALA	2.1
40	2i	45	ALA	2.1
50	2s	50	ALA	2.1
43	2l	16	GLU	2.1
48	2q	49	GLU	2.1
1	1A	1555	C	2.1
1	2A	893	C	2.1
1	2A	2804	C	2.1
6	2G	136	ARG	2.1
12	2Q	5	ARG	2.1
15	1T	108	ARG	2.1
29	27	23	ARG	2.1
32	1a	1037	C	2.1
32	2a	1038	C	2.1
32	2a	1189	C	2.1
34	1c	192	THR	2.1
40	1i	66	ARG	2.1
44	2m	37	THR	2.1
44	2m	105	THR	2.1
45	1n	23	ARG	2.1
54	2y	60	C	2.1
1	1A	2177	G	2.1
1	1A	2212	G	2.1
2	2B	19	G	2.1
9	2N	44	PRO	2.1
26	24	29	PRO	2.1
43	1l	5	PRO	2.1
44	2m	41	PRO	2.1
51	1t	98	PRO	2.1
12	2Q	32	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
16	2U	84	LYS	2.1
33	2b	106	LYS	2.1
34	1c	184	TYR	2.1
44	1m	27	LYS	2.1
48	2q	95	TYR	2.1
50	2s	80	TYR	2.1
14	2S	110	LEU	2.1
35	2d	78	LEU	2.1
38	1g	16	LEU	2.1
39	1h	112	LEU	2.1
41	1j	86	MET	2.1
50	1s	71	LEU	2.1
1	1A	934	A	2.1
26	24	64	GLY	2.1
32	2a	1256	A	2.1
39	2h	106	GLY	2.1
42	2k	49	GLY	2.1
1	1A	274	U	2.1
6	2G	70	VAL	2.1
6	2G	97	ASP	2.1
32	2a	723	U	2.1
32	2a	1212	U	2.1
33	2b	42	ILE	2.1
33	2b	58	ILE	2.1
33	2b	220	ASP	2.1
44	2m	45	VAL	2.1
44	2m	117	VAL	2.1
55	2x	20	U	2.1
33	2b	109	SER	2.1
38	2g	26	PHE	2.1
6	2G	171	ALA	2.1
7	2H	145	ALA	2.1
21	2Z	21	ALA	2.1
34	2c	50	ALA	2.1
36	2e	54	ALA	2.1
43	2l	56	ALA	2.1
8	2I	48	GLU	2.1
26	24	30	GLU	2.1
15	1T	125	ARG	2.1
33	2b	175	ARG	2.1
34	2c	38	ARG	2.1
47	2p	42	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
34	1c	15	THR	2.1
34	1c	95	THR	2.1
41	2j	87	THR	2.1
49	1r	47	THR	2.1
8	2I	8	PRO	2.1
9	2N	84	LYS	2.1
20	2Y	87	LYS	2.1
35	1d	84	LYS	2.1
44	2m	120	LYS	2.1
45	2n	58	LYS	2.1
47	1p	50	LYS	2.1
1	2A	2143	C	2.1
32	1a	165	C	2.1
54	2w	31	C	2.1
17	2V	38	LEU	2.1
23	11	98	LEU	2.1
33	2b	37	ASN	2.1
36	1e	10	MET	2.1
43	2l	52	LEU	2.1
44	2m	82	MET	2.1
50	2s	44	MET	2.1
33	2b	38	GLY	2.1
39	2h	128	GLY	2.1
1	1A	2153	G	2.1
6	2G	49	ASP	2.1
17	2V	46	VAL	2.1
21	2Z	165	VAL	2.1
26	24	31	ILE	2.1
29	17	46	VAL	2.1
32	2a	630	G	2.1
33	1b	160	ASP	2.1
33	1b	208	ILE	2.1
34	2c	77	ILE	2.1
36	2e	33	VAL	2.1
38	2g	9	VAL	2.1
14	2S	29	PHE	2.1
21	2Z	88	PHE	2.1
33	1b	28	PHE	2.1
35	1d	152	SER	2.1
1	2A	529	A	2.1
1	2A	2801(A)	A	2.1
6	1G	50	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
32	2a	978	A	2.1
21	1Z	119	GLU	2.1
32	2a	1125	U	2.1
33	2b	186	ALA	2.1
33	2b	188	ALA	2.1
38	2g	7	ALA	2.1
54	1w	66	A	2.1
54	2w	33	U	2.1
5	2F	62	ARG	2.1
33	2b	114	ARG	2.1
46	2o	64	ARG	2.1
4	1E	57	LYS	2.1
41	2j	57	LYS	2.1
40	2i	49	PRO	2.1
33	2b	135	GLN	2.1
38	2g	110	GLN	2.1
6	2G	43	LEU	2.1
6	2G	135	LEU	2.1
22	20	37	LEU	2.1
35	1d	135	LEU	2.1
35	2d	162	LEU	2.1
38	2g	37	ASN	2.1
4	2E	10	GLY	2.1
17	2V	63	GLY	2.1
22	20	8	GLY	2.1
26	24	43	TYR	2.1
36	2e	114	GLY	2.1
47	1p	16	HIS	2.1
48	2q	8	GLY	2.1
8	2I	15	VAL	2.1
8	2I	136	VAL	2.1
32	1a	174	C	2.1
32	2a	1267	C	2.1
33	1b	7	VAL	2.1
35	2d	17	VAL	2.1
54	2w	61	C	2.1
54	2y	62	C	2.1
40	1i	91	ASP	2.1
7	1H	18	GLU	2.1
8	2I	41	GLU	2.1
33	2b	130	ARG	2.1
34	2c	44	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
34	2c	179	ARG	2.1
40	1i	15	ALA	2.1
41	1j	70	ARG	2.1
43	1l	19	ARG	2.1
44	2m	33	ALA	2.1
45	2n	23	ARG	2.1
47	1p	7	ALA	2.1
50	2s	36	ARG	2.1
1	1A	2143	G	2.1
1	1A	2187	G	2.1
1	2A	881	G	2.1
1	2A	2121	G	2.1
32	1a	64	G	2.1
32	2a	1023	G	2.1
32	2a	1057	G	2.1
1	1A	1151	U	2.1
1	1A	2140	U	2.1
1	1A	2614	A	2.1
1	2A	614(A)	U	2.1
1	2A	1762	A	2.1
7	1H	175	LYS	2.1
38	2g	29	LYS	2.1
41	1j	7	LYS	2.1
54	1y	49	G	2.1
54	2w	57	G	2.1
54	2y	53	G	2.1
32	1a	172	A	2.1
32	2a	1275	A	2.1
33	2b	54	THR	2.1
36	2e	116	THR	2.1
40	1i	7	THR	2.1
54	1y	59	U	2.1
54	2w	14	A	2.1
21	2Z	130	PRO	2.1
47	1p	46	PRO	2.1
12	2Q	7	MET	2.1
8	1I	38	LEU	2.1
33	2b	102	LEU	2.1
37	1f	21	LEU	2.1
39	2h	10	LEU	2.1
47	1p	73	LEU	2.1
15	1T	104	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
42	1k	117	ASN	2.1
21	2Z	151	HIS	2.1
33	2b	227	GLY	2.1
38	2g	133	GLY	2.1
40	2i	68	GLY	2.1
50	2s	47	HIS	2.1
51	2t	101	GLY	2.1
33	2b	108	ILE	2.1
34	1c	84	ILE	2.1
34	1c	152	ILE	2.1
41	1j	75	ILE	2.1
8	2I	107	VAL	2.1
34	2c	99	VAL	2.1
43	2l	55	VAL	2.1
43	2l	110	VAL	2.1
44	2m	54	VAL	2.1
37	1f	60	PHE	2.1
10	2O	108	GLU	2.0
12	2Q	60	ARG	2.0
26	14	61	ARG	2.0
33	1b	36	ARG	2.0
33	2b	226	ARG	2.0
35	1d	168	ARG	2.0
41	2j	29	ARG	2.0
44	2m	110	ARG	2.0
45	1n	29	ARG	2.0
47	1p	77	ALA	2.0
48	2q	96	GLU	2.0
52	2u	22	ARG	2.0
23	1l	2	SER	2.0
33	1b	233	SER	2.0
33	2b	88	ALA	2.0
34	2c	180	ALA	2.0
38	2g	152	ALA	2.0
1	2A	1043	C	2.0
32	2a	1060	C	2.0
32	2a	1228	C	2.0
32	2a	1263	C	2.0
34	2c	93	LYS	2.0
54	1y	32	C	2.0
54	1y	68	C	2.0
47	2p	48	TRP	2.0

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Mol	Chain	Res	Type	RSRZ
44	1m	103	THR	2.0
50	2s	48	THR	2.0
8	2I	140	LEU	2.0
9	2N	34	LEU	2.0
26	24	60	GLN	2.0
32	2a	982	U	2.0
32	2a	1086	U	2.0
32	2a	1196	U	2.0
35	2d	155	LEU	2.0
41	1j	33	GLN	2.0
41	1j	40	LEU	2.0
44	2m	96	LEU	2.0
48	1q	26	GLN	2.0
1	1A	218	A	2.0
1	1A	930	G	2.0
1	1A	1149	A	2.0
1	2A	859	G	2.0
1	2A	882	G	2.0
1	2A	1170	G	2.0
2	2B	25	A	2.0
32	1a	346	G	2.0
32	2a	959	A	2.0
32	2a	1215	G	2.0
32	2a	1231	G	2.0
54	1y	1	G	2.0
54	1y	19	G	2.0
15	1T	37	GLY	2.0
41	1j	93	GLY	2.0
7	2H	157	TYR	2.0
34	2c	151	VAL	2.0
36	2e	90	VAL	2.0
39	2h	79	VAL	2.0
40	1i	14	VAL	2.0
47	1p	58	TYR	2.0
15	1T	41	ARG	2.0
24	12	37	PHE	2.0
33	2b	55	PHE	2.0
34	2c	10	PHE	2.0
35	1d	115	ARG	2.0
35	2d	115	ARG	2.0
38	2g	115	ARG	2.0
40	2i	104	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
40	2i	120	ARG	2.0
42	1k	54	ARG	2.0
48	1q	68	ARG	2.0
50	2s	74	PHE	2.0
6	1G	49	ASP	2.0
34	1c	60	ALA	2.0
52	2u	5	ASP	2.0
20	2Y	47	LYS	2.0
34	2c	45	LYS	2.0
43	2l	23	LYS	2.0
51	2t	74	LYS	2.0
21	2Z	92	SER	2.0
38	2g	77	SER	2.0
21	2Z	69	THR	2.0
35	2d	29	PRO	2.0
1	1A	1126	C	2.0
1	2A	894	C	2.0
6	2G	62	LEU	2.0
6	2G	152	LEU	2.0
32	1a	1007	C	2.0
32	2a	989	C	2.0
32	2a	1320	C	2.0
33	2b	213	LEU	2.0
34	1c	32	LEU	2.0
34	2c	94	LEU	2.0
39	1h	59	LEU	2.0
39	2h	112	LEU	2.0
32	2a	1278	U	2.0
32	2a	1372	U	2.0
6	2G	63	ILE	2.0
14	2S	61	ASN	2.0
54	2w	59	U	2.0
17	2V	101	GLY	2.0
30	28	45	GLY	2.0
33	1b	201	ILE	2.0
33	2b	228	GLY	2.0
34	2c	205	GLY	2.0
1	2A	2176	A	2.0
14	2S	17	ARG	2.0
15	1T	129	ARG	2.0
17	2V	51	VAL	2.0
20	2Y	50	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
34	2c	141	VAL	2.0
35	2d	35	ARG	2.0
39	2h	18	ARG	2.0
41	2j	5	ARG	2.0
41	2j	79	ARG	2.0
43	1l	18	VAL	2.0
43	2l	101	VAL	2.0
47	2p	2	VAL	2.0
50	1s	67	VAL	2.0
54	1w	6	A	2.0
54	1w	69	A	2.0
12	2Q	137	TYR	2.0
43	1l	98	TYR	2.0

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

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	PSU	2w	55	20/21	0.33	0.20	95,102,111,112	0
56	IAR	B	7	12/12	0.38	0.30	76,91,98,99	0
54	7MG	1y	46	24/25	0.43	0.19	90,101,105,118	0
54	7MG	1w	46	24/25	0.48	0.18	88,96,107,117	0
54	7MG	2w	46	24/25	0.48	0.17	92,102,108,119	0
54	PSU	2y	55	20/21	0.50	0.17	94,101,106,117	0
54	4SU	2y	8	20/21	0.50	0.17	99,104,116,125	0
54	PSU	1w	55	20/21	0.52	0.20	71,97,102,104	0
54	CM0	2y	34	25/26	0.55	0.20	85,102,110,128	0
54	7MG	2y	46	24/25	0.55	0.16	94,104,109,114	0
54	4SU	1y	8	20/21	0.57	0.16	95,99,109,118	0
54	PSU	1y	55	20/21	0.58	0.16	93,98,104,117	0
54	5MU	2y	54	21/22	0.61	0.17	93,102,109,126	0
54	4SU	2w	8	20/21	0.61	0.15	97,102,109,122	0
54	6MZ	2y	37	23/24	0.65	0.16	89,99,106,125	0
56	IAR	C	9	12/12	0.65	0.19	81,88,101,103	0
56	ORD	C	5	8/9	0.69	0.20	90,95,96,98	0
54	5MU	2w	54	21/22	0.69	0.14	87,92,100,102	0
54	CM0	1y	34	25/26	0.69	0.17	84,94,101,121	0
54	CM0	2w	34	25/26	0.70	0.18	83,92,98,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
54	4SU	1w	8	20/21	0.71	0.13	93,97,110,113	0
54	5MU	1w	54	21/22	0.73	0.14	69,85,91,95	0
54	6MZ	1y	37	23/24	0.73	0.17	85,94,103,117	0
32	2MG	2a	1207	24/25	0.77	0.16	84,94,98,101	0
54	5MU	1y	54	21/22	0.78	0.12	90,95,100,110	0
56	ORD	B	3	8/9	0.79	0.24	72,75,81,82	0
55	PSU	2x	55	20/21	0.79	0.12	78,86,93,99	0
55	4SU	2x	8	20/21	0.80	0.13	83,89,97,98	0
56	IAR	A	9	12/12	0.81	0.26	67,79,91,94	0
56	EUP	C	2	8/9	0.83	0.21	87,92,94,94	0
54	CM0	1w	34	25/26	0.83	0.17	74,78,85,93	0
55	5MU	2x	54	21/22	0.84	0.13	82,88,92,102	0
32	M2G	2a	966	25/26	0.84	0.17	63,73,89,97	0
43	0TD	2l	92	10/11	0.85	0.14	70,70,74,88	0
1	5MU	2A	1915	21/22	0.85	0.12	74,77,85,90	0
32	PSU	2a	516	20/21	0.86	0.12	78,81,88,90	0
32	5MC	2a	967	21/22	0.87	0.14	67,75,84,91	0
32	7MG	2a	527	24/25	0.88	0.14	64,72,81,89	0
56	EUP	A	2	8/9	0.88	0.14	59,75,76,78	0
56	ORD	A	5	8/9	0.89	0.15	72,74,77,77	0
43	0TD	1l	92	10/11	0.89	0.12	50,54,58,79	0
32	5MC	2a	1404	21/22	0.89	0.12	52,61,70,76	0
54	6MZ	2w	37	23/24	0.90	0.11	82,87,91,96	0
55	5MC	2x	32	21/22	0.90	0.15	74,79,84,85	0
55	5MU	1x	54	21/22	0.91	0.10	63,72,76,83	0
1	5MU	1A	1937	21/22	0.91	0.12	56,62,67,74	0
55	PSU	1x	55	20/21	0.91	0.09	64,70,77,78	0
55	4SU	1x	8	20/21	0.91	0.12	61,68,82,83	0
1	PSU	2A	1911	20/21	0.91	0.10	64,68,75,79	0
32	4OC	2a	1402	22/23	0.91	0.13	57,67,73,79	0
1	PSU	2A	1917	20/21	0.92	0.08	64,69,82,86	0
32	5MC	2a	1400	21/22	0.93	0.13	67,72,76,82	0
1	4OC	2A	1920	21/23	0.93	0.10	57,66,69,70	0
32	UR3	2a	1498	21/22	0.94	0.11	52,60,69,72	0
54	6MZ	1w	37	23/24	0.94	0.09	59,65,70,71	0
32	2MG	1a	1207	24/25	0.94	0.10	70,74,80,80	0
32	PSU	1a	516	20/21	0.94	0.08	61,68,71,72	0
32	MA6	2a	1518	24/25	0.95	0.11	58,67,72,75	0
55	5MC	1x	32	21/22	0.95	0.11	47,57,61,67	0
32	MA6	2a	1519	24/25	0.95	0.12	56,68,70,73	0
1	2MA	2A	2503	23/24	0.95	0.10	31,39,43,53	0
1	5MC	2A	1942	21/22	0.95	0.10	56,63,67,79	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	49,60,64,76	0
1	PSU	1A	1933	20/21	0.96	0.08	45,49,53,59	0
32	7MG	1a	527	24/25	0.96	0.08	46,52,57,59	0
32	M2G	1a	966	25/26	0.96	0.10	51,57,63,72	0
32	5MC	1a	967	21/22	0.96	0.09	52,59,67,70	0
1	PSU	1A	1939	20/21	0.96	0.08	52,56,63,70	0
32	5MC	1a	1400	21/22	0.96	0.10	46,54,59,62	0
1	5MC	2A	1962	21/22	0.96	0.09	43,53,59,75	0
32	MA6	1a	1519	24/25	0.96	0.10	40,43,47,49	0
32	4OC	1a	1402	22/23	0.97	0.08	42,47,55,57	0
1	OMG	2A	2251	24/25	0.97	0.08	38,43,47,57	0
32	5MC	1a	1404	21/22	0.97	0.07	35,40,47,51	0
32	5MC	1a	1407	21/22	0.97	0.09	35,41,44,46	0
1	4OC	1A	1942	21/23	0.97	0.07	38,47,50,55	0
1	5MU	2A	1939	21/22	0.97	0.07	37,40,46,48	0
1	5MC	1A	1964	21/22	0.97	0.07	40,43,47,53	0
32	UR3	1a	1498	21/22	0.98	0.07	34,41,47,50	0
32	MA6	1a	1518	24/25	0.98	0.08	35,42,46,47	0
1	2MA	1A	2515	23/24	0.98	0.06	21,24,28,31	0
1	2MU	1A	2564	21/23	0.98	0.07	24,30,35,36	0
1	PSU	1A	2617	20/21	0.98	0.06	23,29,33,33	0
1	2MU	2A	2552	21/23	0.98	0.08	38,42,49,54	0
1	PSU	2A	2605	20/21	0.98	0.06	38,43,46,49	0
1	5MU	1A	1961	21/22	0.98	0.06	24,28,33,35	0
1	5MC	1A	1984	21/22	0.98	0.06	22,36,41,45	0
1	OMG	1A	2263	24/25	0.98	0.06	23,27,31,35	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
57	MG	2y	3007	1/1	0.13	0.31	92,92,92,92	0
57	MG	1x	3014	1/1	0.36	0.19	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2B	3012	1/1	0.39	0.24	102,102,102,102	0
57	MG	1v	3001	1/1	0.42	0.31	85,85,85,85	0
57	MG	2A	3302	1/1	0.44	0.28	90,90,90,90	0
57	MG	1w	103	1/1	0.47	0.19	85,85,85,85	0
57	MG	2O	8002	1/1	0.49	0.28	82,82,82,82	0
57	MG	1a	1898	1/1	0.49	0.16	89,89,89,89	0
57	MG	2a	1802	1/1	0.51	0.30	100,100,100,100	0
57	MG	1A	3948	1/1	0.52	0.22	76,76,76,76	0
57	MG	1a	1834	1/1	0.53	0.31	70,70,70,70	0
57	MG	2y	3005	1/1	0.54	0.25	101,101,101,101	0
57	MG	2A	3528	1/1	0.54	0.29	58,58,58,58	0
57	MG	2A	3332	1/1	0.57	0.28	77,77,77,77	0
57	MG	18	101	1/1	0.57	0.23	80,80,80,80	0
57	MG	1a	1669	1/1	0.57	0.16	93,93,93,93	0
57	MG	2G	3001	1/1	0.57	0.28	81,81,81,81	0
57	MG	2A	3300	1/1	0.58	0.12	84,84,84,84	0
57	MG	1y	102	1/1	0.58	0.32	80,80,80,80	0
57	MG	2A	3576	1/1	0.59	0.19	84,84,84,84	0
57	MG	2A	3724	1/1	0.59	0.16	88,88,88,88	0
57	MG	1a	1866	1/1	0.59	0.27	76,76,76,76	0
57	MG	1A	4042	1/1	0.59	0.16	69,69,69,69	0
57	MG	C	8002	1/1	0.59	0.33	98,98,98,98	0
57	MG	2a	1773	1/1	0.61	0.20	88,88,88,88	0
57	MG	2A	3484	1/1	0.62	0.32	84,84,84,84	0
57	MG	1A	3421	1/1	0.62	0.27	74,74,74,74	0
57	MG	2A	3615	1/1	0.63	0.13	92,92,92,92	0
57	MG	1B	227	1/1	0.63	0.15	73,73,73,73	0
57	MG	1y	106	1/1	0.63	0.17	84,84,84,84	0
57	MG	1w	106	1/1	0.63	0.22	89,89,89,89	0
57	MG	1a	1737	1/1	0.63	0.24	81,81,81,81	0
57	MG	2A	3843	1/1	0.64	0.16	86,86,86,86	0
57	MG	1a	1802	1/1	0.64	0.23	92,92,92,92	0
57	MG	2B	3013	1/1	0.64	0.23	70,70,70,70	0
57	MG	1a	1665	1/1	0.64	0.18	67,67,67,67	0
57	MG	2A	3178	1/1	0.64	0.20	74,74,74,74	0
57	MG	2A	3253	1/1	0.64	0.15	79,79,79,79	0
57	MG	1S	3003	1/1	0.64	0.17	73,73,73,73	0
57	MG	2A	3669	1/1	0.64	0.20	62,62,62,62	0
57	MG	1A	3782	1/1	0.64	0.17	60,60,60,60	0
57	MG	2A	3797	1/1	0.64	0.20	72,72,72,72	0
57	MG	1A	3957	1/1	0.65	0.28	70,70,70,70	0
57	MG	2A	3101	1/1	0.65	0.31	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1y	103	1/1	0.65	0.26	86,86,86,86	0
57	MG	1A	3433	1/1	0.66	0.19	60,60,60,60	0
57	MG	2y	3006	1/1	0.66	0.14	106,106,106,106	0
57	MG	2D	304	1/1	0.66	0.24	73,73,73,73	0
57	MG	C	8001	1/1	0.66	0.41	95,95,95,95	0
57	MG	1A	3515	1/1	0.66	0.22	69,69,69,69	0
57	MG	2a	1757	1/1	0.67	0.27	77,77,77,77	0
57	MG	1a	1875	1/1	0.67	0.39	90,90,90,90	0
57	MG	1A	3873	1/1	0.68	0.22	74,74,74,74	0
57	MG	1a	1868	1/1	0.68	0.18	71,71,71,71	0
57	MG	2A	3236	1/1	0.68	0.17	84,84,84,84	0
57	MG	1a	1870	1/1	0.68	0.33	80,80,80,80	0
57	MG	2A	3818	1/1	0.68	0.16	76,76,76,76	0
57	MG	2R	8001	1/1	0.68	0.20	83,83,83,83	0
57	MG	1A	3453	1/1	0.68	0.23	70,70,70,70	0
57	MG	1A	3754	1/1	0.69	0.47	75,75,75,75	0
57	MG	1B	223	1/1	0.69	0.13	80,80,80,80	0
57	MG	1A	3995	1/1	0.69	0.17	52,52,52,52	0
57	MG	2A	3268	1/1	0.69	0.23	68,68,68,68	0
57	MG	1a	1815	1/1	0.69	0.28	87,87,87,87	0
57	MG	1a	1872	1/1	0.69	0.17	93,93,93,93	0
57	MG	2A	3320	1/1	0.69	0.26	81,81,81,81	0
57	MG	2A	3327	1/1	0.69	0.31	73,73,73,73	0
57	MG	1Y	203	1/1	0.70	0.23	80,80,80,80	0
57	MG	2a	1793	1/1	0.70	0.21	75,75,75,75	0
57	MG	1A	3357	1/1	0.70	0.26	71,71,71,71	0
57	MG	2v	101	1/1	0.70	0.16	85,85,85,85	0
57	MG	2x	103	1/1	0.70	0.23	92,92,92,92	0
57	MG	2A	3647	1/1	0.70	0.18	81,81,81,81	0
57	MG	2A	3249	1/1	0.70	0.25	81,81,81,81	0
57	MG	2Z	8001	1/1	0.70	0.18	89,89,89,89	0
57	MG	2a	1689	1/1	0.70	0.25	83,83,83,83	0
57	MG	2A	3553	1/1	0.70	0.20	52,52,52,52	0
57	MG	2a	1683	1/1	0.71	0.25	76,76,76,76	0
57	MG	2A	3018	1/1	0.71	0.24	78,78,78,78	0
57	MG	1a	1871	1/1	0.71	0.21	96,96,96,96	0
57	MG	2a	1769	1/1	0.71	0.22	72,72,72,72	0
57	MG	1A	4035	1/1	0.71	0.27	76,76,76,76	0
57	MG	2A	3231	1/1	0.71	0.25	67,67,67,67	0
57	MG	1x	3010	1/1	0.71	0.29	80,80,80,80	0
57	MG	1A	3975	1/1	0.71	0.26	74,74,74,74	0
57	MG	1a	1814	1/1	0.71	0.22	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1l	8002	1/1	0.71	0.20	79,79,79,79	0
57	MG	2A	3579	1/1	0.71	0.14	62,62,62,62	0
57	MG	2A	3598	1/1	0.71	0.17	71,71,71,71	0
57	MG	2A	3296	1/1	0.71	0.23	73,73,73,73	0
57	MG	1A	3571	1/1	0.71	0.24	62,62,62,62	0
57	MG	1a	1839	1/1	0.72	0.22	77,77,77,77	0
57	MG	2A	3541	1/1	0.72	0.17	62,62,62,62	0
57	MG	1A	3459	1/1	0.72	0.28	71,71,71,71	0
57	MG	2A	3559	1/1	0.72	0.19	67,67,67,67	0
57	MG	2j	8001	1/1	0.72	0.16	86,86,86,86	0
57	MG	2A	3045	1/1	0.72	0.40	78,78,78,78	0
57	MG	2a	1667	1/1	0.72	0.29	83,83,83,83	0
57	MG	2a	1673	1/1	0.72	0.17	83,83,83,83	0
57	MG	1A	3428	1/1	0.72	0.16	72,72,72,72	0
57	MG	1A	3924	1/1	0.72	0.19	63,63,63,63	0
57	MG	2a	1749	1/1	0.72	0.26	75,75,75,75	0
57	MG	2A	3185	1/1	0.72	0.15	69,69,69,69	0
57	MG	1a	1796	1/1	0.73	0.16	69,69,69,69	0
57	MG	2A	3243	1/1	0.73	0.34	69,69,69,69	0
57	MG	2A	3594	1/1	0.73	0.22	75,75,75,75	0
57	MG	1a	1801	1/1	0.73	0.15	77,77,77,77	0
57	MG	1a	1842	1/1	0.73	0.25	74,74,74,74	0
57	MG	1a	1655	1/1	0.73	0.22	74,74,74,74	0
57	MG	1a	1714	1/1	0.73	0.17	76,76,76,76	0
57	MG	1A	4021	1/1	0.73	0.14	60,60,60,60	0
57	MG	1y	105	1/1	0.73	0.22	93,93,93,93	0
57	MG	1a	1704	1/1	0.74	0.17	83,83,83,83	0
57	MG	2a	1786	1/1	0.74	0.20	85,85,85,85	0
57	MG	2A	3773	1/1	0.74	0.17	83,83,83,83	0
57	MG	1A	3721	1/1	0.74	0.18	59,59,59,59	0
57	MG	2a	1636	1/1	0.74	0.15	86,86,86,86	0
57	MG	2A	3098	1/1	0.74	0.19	76,76,76,76	0
57	MG	2x	101	1/1	0.74	0.33	89,89,89,89	0
57	MG	1A	3724	1/1	0.74	0.16	67,67,67,67	0
57	MG	2y	3003	1/1	0.74	0.20	102,102,102,102	0
57	MG	2A	3521	1/1	0.74	0.19	66,66,66,66	0
57	MG	2A	3301	1/1	0.74	0.10	88,88,88,88	0
57	MG	1A	3415	1/1	0.74	0.32	56,56,56,56	0
57	MG	2E	302	1/1	0.74	0.40	80,80,80,80	0
57	MG	2A	3305	1/1	0.74	0.11	76,76,76,76	0
57	MG	2A	3630	1/1	0.75	0.12	50,50,50,50	0
57	MG	2a	1665	1/1	0.75	0.22	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1897	1/1	0.75	0.15	83,83,83,83	0
57	MG	1a	1843	1/1	0.75	0.24	84,84,84,84	0
57	MG	1A	3983	1/1	0.75	0.19	63,63,63,63	0
57	MG	2a	1684	1/1	0.75	0.22	76,76,76,76	0
57	MG	2a	1687	1/1	0.75	0.42	78,78,78,78	0
57	MG	2A	3519	1/1	0.75	0.16	77,77,77,77	0
57	MG	2A	3011	1/1	0.75	0.28	64,64,64,64	0
57	MG	2A	3803	1/1	0.75	0.15	71,71,71,71	0
57	MG	1V	202	1/1	0.75	0.16	78,78,78,78	0
57	MG	2a	1771	1/1	0.75	0.31	78,78,78,78	0
57	MG	2A	3824	1/1	0.75	0.12	93,93,93,93	0
57	MG	2A	3825	1/1	0.75	0.15	73,73,73,73	0
57	MG	2A	3829	1/1	0.75	0.17	75,75,75,75	0
57	MG	1A	3988	1/1	0.75	0.19	67,67,67,67	0
57	MG	2i	8001	1/1	0.75	0.12	72,72,72,72	0
57	MG	2A	3273	1/1	0.75	0.26	82,82,82,82	0
57	MG	2A	3051	1/1	0.75	0.16	80,80,80,80	0
57	MG	2B	3015	1/1	0.75	0.19	81,81,81,81	0
57	MG	2A	3091	1/1	0.75	0.18	75,75,75,75	0
57	MG	1A	3833	1/1	0.75	0.12	64,64,64,64	0
57	MG	1A	3372	1/1	0.75	0.15	65,65,65,65	0
57	MG	1B	229	1/1	0.75	0.18	77,77,77,77	0
57	MG	2A	3601	1/1	0.75	0.29	75,75,75,75	0
57	MG	1a	1876	1/1	0.75	0.21	83,83,83,83	0
57	MG	2a	1628	1/1	0.75	0.29	68,68,68,68	0
57	MG	1A	4071	1/1	0.76	0.21	82,82,82,82	0
57	MG	2A	3712	1/1	0.76	0.09	94,94,94,94	0
57	MG	2A	3163	1/1	0.76	0.23	78,78,78,78	0
57	MG	1A	3998	1/1	0.76	0.23	71,71,71,71	0
57	MG	2a	1777	1/1	0.76	0.21	82,82,82,82	0
57	MG	2A	3778	1/1	0.76	0.24	75,75,75,75	0
57	MG	2a	1791	1/1	0.76	0.37	72,72,72,72	0
57	MG	1a	1621	1/1	0.76	0.22	52,52,52,52	0
57	MG	1A	3984	1/1	0.76	0.16	55,55,55,55	0
57	MG	2a	1629	1/1	0.76	0.25	80,80,80,80	0
57	MG	2A	3807	1/1	0.76	0.16	84,84,84,84	0
57	MG	1A	3597	1/1	0.76	0.21	56,56,56,56	0
57	MG	1A	3359	1/1	0.76	0.21	67,67,67,67	0
57	MG	2A	3245	1/1	0.76	0.19	79,79,79,79	0
57	MG	2y	3002	1/1	0.76	0.21	86,86,86,86	0
57	MG	1a	1685	1/1	0.76	0.37	74,74,74,74	0
57	MG	2A	3353	1/1	0.76	0.26	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3397	1/1	0.76	0.19	72,72,72,72	0
57	MG	1a	1692	1/1	0.76	0.31	73,73,73,73	0
57	MG	2a	1693	1/1	0.76	0.35	87,87,87,87	0
57	MG	1A	4062	1/1	0.76	0.14	80,80,80,80	0
57	MG	1a	1893	1/1	0.77	0.14	73,73,73,73	0
57	MG	2A	3719	1/1	0.77	0.12	78,78,78,78	0
57	MG	1a	1860	1/1	0.77	0.14	83,83,83,83	0
57	MG	1A	4037	1/1	0.77	0.18	43,43,43,43	0
57	MG	1d	503	1/1	0.77	0.12	69,69,69,69	0
57	MG	2R	8002	1/1	0.77	0.17	60,60,60,60	0
57	MG	2A	3794	1/1	0.77	0.16	71,71,71,71	0
57	MG	1a	1716	1/1	0.77	0.17	74,74,74,74	0
57	MG	1A	3999	1/1	0.77	0.19	66,66,66,66	0
57	MG	1B	228	1/1	0.77	0.16	69,69,69,69	0
57	MG	2A	3812	1/1	0.77	0.17	80,80,80,80	0
57	MG	2A	3344	1/1	0.77	0.09	85,85,85,85	0
57	MG	1A	3529	1/1	0.77	0.21	62,62,62,62	0
57	MG	2A	3370	1/1	0.77	0.24	63,63,63,63	0
57	MG	1A	3349	1/1	0.77	0.22	59,59,59,59	0
57	MG	2A	3451	1/1	0.77	0.14	78,78,78,78	0
57	MG	2B	3002	1/1	0.77	0.16	81,81,81,81	0
57	MG	1a	1857	1/1	0.77	0.17	74,74,74,74	0
57	MG	1a	1880	1/1	0.77	0.20	72,72,72,72	0
57	MG	2A	3693	1/1	0.77	0.18	75,75,75,75	0
57	MG	2A	3259	1/1	0.78	0.28	83,83,83,83	0
57	MG	1a	1799	1/1	0.78	0.16	70,70,70,70	0
57	MG	1A	4054	1/1	0.78	0.27	79,79,79,79	0
57	MG	2A	3823	1/1	0.78	0.14	51,51,51,51	0
57	MG	1A	3568	1/1	0.78	0.21	57,57,57,57	0
57	MG	1A	3413	1/1	0.78	0.20	84,84,84,84	0
57	MG	1A	3256	1/1	0.78	0.37	65,65,65,65	0
57	MG	2A	3832	1/1	0.78	0.27	67,67,67,67	0
57	MG	2A	3836	1/1	0.78	0.18	72,72,72,72	0
57	MG	1a	1824	1/1	0.78	0.21	74,74,74,74	0
57	MG	1A	3845	1/1	0.78	0.12	23,23,23,23	0
57	MG	1a	1838	1/1	0.78	0.20	71,71,71,71	0
57	MG	2A	3616	1/1	0.78	0.20	82,82,82,82	0
57	MG	1A	3616	1/1	0.78	0.22	72,72,72,72	0
57	MG	2A	3104	1/1	0.78	0.31	73,73,73,73	0
57	MG	1A	3917	1/1	0.78	0.20	67,67,67,67	0
57	MG	2A	3671	1/1	0.78	0.13	65,65,65,65	0
57	MG	2A	3347	1/1	0.78	0.12	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3719	1/1	0.78	0.14	66,66,66,66	0
57	MG	2A	3713	1/1	0.78	0.13	68,68,68,68	0
57	MG	1A	3275	1/1	0.78	0.23	61,61,61,61	0
57	MG	1A	3538	1/1	0.78	0.15	68,68,68,68	0
57	MG	1x	3009	1/1	0.78	0.25	76,76,76,76	0
57	MG	1a	1865	1/1	0.78	0.15	85,85,85,85	0
57	MG	1a	1741	1/1	0.78	0.20	83,83,83,83	0
57	MG	1a	1795	1/1	0.78	0.19	71,71,71,71	0
57	MG	1A	3749	1/1	0.78	0.21	55,55,55,55	0
57	MG	1a	1684	1/1	0.79	0.18	79,79,79,79	0
57	MG	2a	1624	1/1	0.79	0.20	81,81,81,81	0
57	MG	2A	3704	1/1	0.79	0.19	89,89,89,89	0
57	MG	2A	3198	1/1	0.79	0.26	76,76,76,76	0
57	MG	2A	3207	1/1	0.79	0.24	73,73,73,73	0
57	MG	2A	3213	1/1	0.79	0.16	65,65,65,65	0
57	MG	2A	3720	1/1	0.79	0.12	81,81,81,81	0
57	MG	1a	1859	1/1	0.79	0.26	72,72,72,72	0
57	MG	2a	1681	1/1	0.79	0.17	85,85,85,85	0
57	MG	2A	3421	1/1	0.79	0.17	44,44,44,44	0
57	MG	2A	3776	1/1	0.79	0.15	70,70,70,70	0
57	MG	1A	3675	1/1	0.79	0.22	60,60,60,60	0
57	MG	1b	3002	1/1	0.79	0.18	87,87,87,87	0
57	MG	1A	3723	1/1	0.79	0.15	67,67,67,67	0
57	MG	2a	1742	1/1	0.79	0.28	83,83,83,83	0
57	MG	1A	3967	1/1	0.79	0.16	65,65,65,65	0
57	MG	2a	1755	1/1	0.79	0.14	75,75,75,75	0
57	MG	1A	4076	1/1	0.79	0.27	64,64,64,64	0
57	MG	2a	1762	1/1	0.79	0.21	75,75,75,75	0
57	MG	2A	3539	1/1	0.79	0.17	83,83,83,83	0
57	MG	2A	3079	1/1	0.79	0.23	82,82,82,82	0
57	MG	2A	3082	1/1	0.79	0.29	56,56,56,56	0
57	MG	1A	3689	1/1	0.79	0.23	75,75,75,75	0
57	MG	2A	3568	1/1	0.79	0.14	88,88,88,88	0
57	MG	2A	3575	1/1	0.79	0.13	82,82,82,82	0
57	MG	2A	3274	1/1	0.79	0.20	79,79,79,79	0
57	MG	1A	3713	1/1	0.79	0.25	72,72,72,72	0
57	MG	1A	3281	1/1	0.79	0.28	79,79,79,79	0
57	MG	2A	3597	1/1	0.79	0.13	64,64,64,64	0
57	MG	2n	502	1/1	0.79	0.18	84,84,84,84	0
57	MG	1a	1756	1/1	0.79	0.15	72,72,72,72	0
57	MG	2A	3140	1/1	0.79	0.20	72,72,72,72	0
57	MG	2A	3160	1/1	0.79	0.18	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3317	1/1	0.79	0.23	71,71,71,71	0
57	MG	1A	3774	1/1	0.79	0.10	49,49,49,49	0
57	MG	1a	1676	1/1	0.79	0.28	76,76,76,76	0
57	MG	2A	3664	1/1	0.79	0.15	69,69,69,69	0
57	MG	2A	3328	1/1	0.79	0.21	82,82,82,82	0
57	MG	2A	3184	1/1	0.79	0.17	68,68,68,68	0
57	MG	2X	3002	1/1	0.79	0.56	78,78,78,78	0
57	MG	2a	1637	1/1	0.80	0.39	67,67,67,67	0
57	MG	2A	3779	1/1	0.80	0.25	73,73,73,73	0
57	MG	10	105	1/1	0.80	0.16	66,66,66,66	0
57	MG	15	103	1/1	0.80	0.17	68,68,68,68	0
57	MG	2a	1677	1/1	0.80	0.24	69,69,69,69	0
57	MG	2a	1680	1/1	0.80	0.25	88,88,88,88	0
57	MG	1a	1727	1/1	0.80	0.21	79,79,79,79	0
57	MG	1A	3401	1/1	0.80	0.19	55,55,55,55	0
57	MG	1a	1840	1/1	0.80	0.22	74,74,74,74	0
57	MG	2A	3816	1/1	0.80	0.17	80,80,80,80	0
57	MG	1a	1841	1/1	0.80	0.14	58,58,58,58	0
57	MG	1B	220	1/1	0.80	0.17	63,63,63,63	0
57	MG	1A	3289	1/1	0.80	0.16	60,60,60,60	0
57	MG	2A	3226	1/1	0.80	0.25	73,73,73,73	0
57	MG	2a	1751	1/1	0.80	0.19	77,77,77,77	0
57	MG	2A	3046	1/1	0.80	0.16	57,57,57,57	0
57	MG	2A	3629	1/1	0.80	0.17	64,64,64,64	0
57	MG	2a	1761	1/1	0.80	0.23	86,86,86,86	0
57	MG	2A	3235	1/1	0.80	0.23	79,79,79,79	0
57	MG	2A	3632	1/1	0.80	0.18	70,70,70,70	0
57	MG	2A	3860	1/1	0.80	0.33	64,64,64,64	0
57	MG	1A	3935	1/1	0.80	0.17	57,57,57,57	0
57	MG	2B	3006	1/1	0.80	0.17	84,84,84,84	0
57	MG	2a	1778	1/1	0.80	0.18	91,91,91,91	0
57	MG	2B	3008	1/1	0.80	0.26	70,70,70,70	0
57	MG	1A	3473	1/1	0.80	0.26	62,62,62,62	0
57	MG	2A	3667	1/1	0.80	0.19	63,63,63,63	0
57	MG	2a	1795	1/1	0.80	0.23	83,83,83,83	0
57	MG	1A	4060	1/1	0.80	0.17	69,69,69,69	0
57	MG	2A	3086	1/1	0.80	0.12	73,73,73,73	0
57	MG	2A	3684	1/1	0.80	0.30	82,82,82,82	0
57	MG	2A	3090	1/1	0.80	0.22	89,89,89,89	0
57	MG	1E	306	1/1	0.80	0.22	74,74,74,74	0
57	MG	2A	3493	1/1	0.80	0.15	65,65,65,65	0
57	MG	2x	102	1/1	0.80	0.24	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3266	1/1	0.80	0.36	78,78,78,78	0
57	MG	1A	4002	1/1	0.80	0.33	77,77,77,77	0
57	MG	2A	3270	1/1	0.80	0.19	64,64,64,64	0
57	MG	2a	1623	1/1	0.80	0.37	78,78,78,78	0
57	MG	1A	4064	1/1	0.80	0.13	78,78,78,78	0
57	MG	1a	1869	1/1	0.80	0.17	70,70,70,70	0
57	MG	2A	3291	1/1	0.80	0.15	69,69,69,69	0
57	MG	1A	3949	1/1	0.80	0.16	68,68,68,68	0
57	MG	1A	3321	1/1	0.81	0.15	63,63,63,63	0
57	MG	2A	3815	1/1	0.81	0.25	72,72,72,72	0
57	MG	1A	3154	1/1	0.81	0.16	59,59,59,59	0
57	MG	2A	3587	1/1	0.81	0.16	64,64,64,64	0
57	MG	1a	1867	1/1	0.81	0.17	80,80,80,80	0
57	MG	1a	1678	1/1	0.81	0.18	62,62,62,62	0
57	MG	2A	3197	1/1	0.81	0.28	71,71,71,71	0
57	MG	1a	1808	1/1	0.81	0.09	86,86,86,86	0
57	MG	2a	1733	1/1	0.81	0.12	82,82,82,82	0
57	MG	2A	3204	1/1	0.81	0.33	75,75,75,75	0
57	MG	2A	3834	1/1	0.81	0.23	68,68,68,68	0
57	MG	1A	3458	1/1	0.81	0.13	47,47,47,47	0
57	MG	2A	3340	1/1	0.81	0.18	77,77,77,77	0
57	MG	1A	3887	1/1	0.81	0.14	58,58,58,58	0
57	MG	1a	1818	1/1	0.81	0.22	74,74,74,74	0
57	MG	1a	1823	1/1	0.81	0.15	72,72,72,72	0
57	MG	2A	3663	1/1	0.81	0.15	53,53,53,53	0
57	MG	2A	3358	1/1	0.81	0.30	50,50,50,50	0
57	MG	2A	3019	1/1	0.81	0.39	75,75,75,75	0
57	MG	1a	1688	1/1	0.81	0.16	76,76,76,76	0
57	MG	1A	4065	1/1	0.81	0.11	66,66,66,66	0
57	MG	2A	3444	1/1	0.81	0.17	71,71,71,71	0
57	MG	1A	3381	1/1	0.81	0.13	68,68,68,68	0
57	MG	2a	1792	1/1	0.81	0.14	75,75,75,75	0
57	MG	1A	3166	1/1	0.81	0.24	70,70,70,70	0
57	MG	1A	4090	1/1	0.81	0.23	52,52,52,52	0
57	MG	2A	3513	1/1	0.81	0.22	68,68,68,68	0
57	MG	2e	3001	1/1	0.81	0.17	81,81,81,81	0
57	MG	1a	1905	1/1	0.81	0.23	75,75,75,75	0
57	MG	1B	202	1/1	0.81	0.17	62,62,62,62	0
57	MG	2a	1607	1/1	0.81	0.28	81,81,81,81	0
57	MG	2a	1617	1/1	0.81	0.14	68,68,68,68	0
57	MG	1B	207	1/1	0.81	0.28	71,71,71,71	0
57	MG	2A	3094	1/1	0.81	0.28	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1B	212	1/1	0.81	0.11	69,69,69,69	0
57	MG	1A	3929	1/1	0.81	0.25	85,85,85,85	0
57	MG	2A	3556	1/1	0.81	0.12	56,56,56,56	0
57	MG	1a	1656	1/1	0.81	0.17	69,69,69,69	0
57	MG	2a	1658	1/1	0.81	0.18	82,82,82,82	0
57	MG	1w	104	1/1	0.81	0.12	87,87,87,87	0
57	MG	2A	3574	1/1	0.81	0.22	69,69,69,69	0
57	MG	1A	3500	1/1	0.81	0.15	55,55,55,55	0
57	MG	1A	3267	1/1	0.82	0.16	57,57,57,57	0
57	MG	2a	1630	1/1	0.82	0.20	64,64,64,64	0
57	MG	2A	3256	1/1	0.82	0.16	74,74,74,74	0
57	MG	2A	3728	1/1	0.82	0.17	71,71,71,71	0
57	MG	2a	1638	1/1	0.82	0.27	64,64,64,64	0
57	MG	2a	1646	1/1	0.82	0.35	67,67,67,67	0
57	MG	2A	3504	1/1	0.82	0.11	67,67,67,67	0
57	MG	1A	4008	1/1	0.82	0.16	54,54,54,54	0
57	MG	2A	3260	1/1	0.82	0.22	77,77,77,77	0
57	MG	1x	3003	1/1	0.82	0.23	77,77,77,77	0
57	MG	1a	1626	1/1	0.82	0.24	71,71,71,71	0
57	MG	1a	1825	1/1	0.82	0.14	76,76,76,76	0
57	MG	2A	3271	1/1	0.82	0.33	69,69,69,69	0
57	MG	2A	3805	1/1	0.82	0.20	73,73,73,73	0
57	MG	2A	3806	1/1	0.82	0.16	76,76,76,76	0
57	MG	1x	3012	1/1	0.82	0.26	69,69,69,69	0
57	MG	2A	3151	1/1	0.82	0.34	69,69,69,69	0
57	MG	2A	3282	1/1	0.82	0.13	74,74,74,74	0
57	MG	2A	3287	1/1	0.82	0.24	70,70,70,70	0
57	MG	2a	1741	1/1	0.82	0.15	70,70,70,70	0
57	MG	1a	1830	1/1	0.82	0.11	62,62,62,62	0
57	MG	1a	1833	1/1	0.82	0.26	69,69,69,69	0
57	MG	1a	1873	1/1	0.82	0.17	79,79,79,79	0
57	MG	2A	3182	1/1	0.82	0.30	67,67,67,67	0
57	MG	1A	3457	1/1	0.82	0.12	52,52,52,52	0
57	MG	1A	3852	1/1	0.82	0.13	43,43,43,43	0
57	MG	1B	231	1/1	0.82	0.18	70,70,70,70	0
57	MG	1A	3335	1/1	0.82	0.17	55,55,55,55	0
57	MG	2A	3322	1/1	0.82	0.18	71,71,71,71	0
57	MG	1a	1673	1/1	0.82	0.23	78,78,78,78	0
57	MG	2A	3026	1/1	0.82	0.19	63,63,63,63	0
57	MG	2A	3209	1/1	0.82	0.18	70,70,70,70	0
57	MG	2a	1780	1/1	0.82	0.22	65,65,65,65	0
57	MG	1G	3003	1/1	0.82	0.09	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	4108	1/1	0.82	0.24	76,76,76,76	0
57	MG	2A	3638	1/1	0.82	0.17	77,77,77,77	0
57	MG	2A	3227	1/1	0.82	0.21	69,69,69,69	0
57	MG	2A	3661	1/1	0.82	0.19	84,84,84,84	0
57	MG	2a	1800	1/1	0.82	0.23	68,68,68,68	0
57	MG	2A	3350	1/1	0.82	0.20	76,76,76,76	0
57	MG	2E	303	1/1	0.82	0.31	71,71,71,71	0
57	MG	1A	3417	1/1	0.82	0.13	69,69,69,69	0
57	MG	2A	3234	1/1	0.82	0.41	71,71,71,71	0
57	MG	2A	3054	1/1	0.82	0.19	59,59,59,59	0
57	MG	1A	3888	1/1	0.82	0.11	50,50,50,50	0
57	MG	2U	201	1/1	0.82	0.29	59,59,59,59	0
57	MG	2A	3400	1/1	0.82	0.31	57,57,57,57	0
57	MG	2A	3685	1/1	0.82	0.23	75,75,75,75	0
57	MG	29	101	1/1	0.82	0.38	79,79,79,79	0
57	MG	1A	3906	1/1	0.82	0.22	47,47,47,47	0
57	MG	2a	1610	1/1	0.82	0.56	78,78,78,78	0
57	MG	2A	3435	1/1	0.82	0.16	59,59,59,59	0
57	MG	1a	1691	1/1	0.82	0.17	68,68,68,68	0
57	MG	1A	3961	1/1	0.82	0.16	49,49,49,49	0
57	MG	2A	3471	1/1	0.82	0.20	45,45,45,45	0
57	MG	1a	1888	1/1	0.83	0.34	66,66,66,66	0
57	MG	1a	1759	1/1	0.83	0.13	60,60,60,60	0
57	MG	2A	3602	1/1	0.83	0.17	69,69,69,69	0
57	MG	1a	1761	1/1	0.83	0.17	59,59,59,59	0
57	MG	1E	308	1/1	0.83	0.14	73,73,73,73	0
57	MG	1A	3205	1/1	0.83	0.24	76,76,76,76	0
57	MG	1O	3004	1/1	0.83	0.15	73,73,73,73	0
57	MG	1a	1855	1/1	0.83	0.18	80,80,80,80	0
57	MG	2A	3635	1/1	0.83	0.16	82,82,82,82	0
57	MG	2A	3393	1/1	0.83	0.16	69,69,69,69	0
57	MG	2A	3845	1/1	0.83	0.24	69,69,69,69	0
57	MG	1a	1683	1/1	0.83	0.28	86,86,86,86	0
57	MG	1r	3001	1/1	0.83	0.26	66,66,66,66	0
57	MG	2A	3662	1/1	0.83	0.16	63,63,63,63	0
57	MG	2a	1748	1/1	0.83	0.15	69,69,69,69	0
57	MG	1A	3822	1/1	0.83	0.10	40,40,40,40	0
57	MG	1A	3912	1/1	0.83	0.12	56,56,56,56	0
57	MG	1a	1861	1/1	0.83	0.20	57,57,57,57	0
57	MG	2A	3447	1/1	0.83	0.29	62,62,62,62	0
57	MG	2A	3111	1/1	0.83	0.18	86,86,86,86	0
57	MG	1B	203	1/1	0.83	0.09	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	1765	1/1	0.83	0.25	75,75,75,75	0
57	MG	2a	1766	1/1	0.83	0.24	69,69,69,69	0
57	MG	1A	3973	1/1	0.83	0.11	72,72,72,72	0
57	MG	2A	3159	1/1	0.83	0.17	86,86,86,86	0
57	MG	1x	3007	1/1	0.83	0.24	72,72,72,72	0
57	MG	2A	3708	1/1	0.83	0.13	81,81,81,81	0
57	MG	1A	3829	1/1	0.83	0.15	56,56,56,56	0
57	MG	1A	3217	1/1	0.83	0.17	46,46,46,46	0
57	MG	2a	1781	1/1	0.83	0.24	76,76,76,76	0
57	MG	1A	3729	1/1	0.83	0.23	62,62,62,62	0
57	MG	1A	3269	1/1	0.83	0.18	62,62,62,62	0
57	MG	1a	1827	1/1	0.83	0.24	58,58,58,58	0
57	MG	2A	3194	1/1	0.83	0.19	73,73,73,73	0
57	MG	1A	3250	1/1	0.83	0.21	62,62,62,62	0
57	MG	2a	1615	1/1	0.83	0.34	73,73,73,73	0
57	MG	1a	1832	1/1	0.83	0.14	81,81,81,81	0
57	MG	2a	1620	1/1	0.83	0.38	73,73,73,73	0
57	MG	2g	8001	1/1	0.83	0.12	76,76,76,76	0
57	MG	2A	3309	1/1	0.83	0.41	85,85,85,85	0
57	MG	2A	3316	1/1	0.83	0.13	62,62,62,62	0
57	MG	2A	3572	1/1	0.83	0.16	79,79,79,79	0
57	MG	1A	3532	1/1	0.83	0.17	69,69,69,69	0
57	MG	1A	3952	1/1	0.83	0.13	52,52,52,52	0
57	MG	1a	1877	1/1	0.83	0.11	81,81,81,81	0
57	MG	1a	1878	1/1	0.83	0.14	95,95,95,95	0
57	MG	1A	3953	1/1	0.83	0.14	62,62,62,62	0
57	MG	2a	1640	1/1	0.83	0.42	77,77,77,77	0
57	MG	2a	1642	1/1	0.83	0.14	74,74,74,74	0
57	MG	1a	1882	1/1	0.83	0.15	67,67,67,67	0
57	MG	2a	1649	1/1	0.83	0.38	85,85,85,85	0
57	MG	2a	1652	1/1	0.83	0.28	72,72,72,72	0
57	MG	2A	3337	1/1	0.83	0.19	74,74,74,74	0
57	MG	1A	3955	1/1	0.84	0.15	54,54,54,54	0
57	MG	1A	3469	1/1	0.84	0.33	70,70,70,70	0
57	MG	1A	3599	1/1	0.84	0.19	61,61,61,61	0
57	MG	28	102	1/1	0.84	0.23	73,73,73,73	0
57	MG	1a	1689	1/1	0.84	0.31	70,70,70,70	0
57	MG	2A	3299	1/1	0.84	0.17	79,79,79,79	0
57	MG	1A	3962	1/1	0.84	0.14	56,56,56,56	0
57	MG	2A	3622	1/1	0.84	0.15	73,73,73,73	0
57	MG	1A	3601	1/1	0.84	0.21	68,68,68,68	0
57	MG	2a	1618	1/1	0.84	0.37	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3787	1/1	0.84	0.10	75,75,75,75	0
57	MG	1a	1710	1/1	0.84	0.34	73,73,73,73	0
57	MG	1A	3608	1/1	0.84	0.18	70,70,70,70	0
57	MG	2A	3314	1/1	0.84	0.20	68,68,68,68	0
57	MG	2A	3315	1/1	0.84	0.26	62,62,62,62	0
57	MG	1A	3292	1/1	0.84	0.15	49,49,49,49	0
57	MG	1A	3654	1/1	0.84	0.12	23,23,23,23	0
57	MG	1a	1731	1/1	0.84	0.23	90,90,90,90	0
57	MG	1A	3987	1/1	0.84	0.17	52,52,52,52	0
57	MG	1A	3674	1/1	0.84	0.20	61,61,61,61	0
57	MG	1A	3393	1/1	0.84	0.12	55,55,55,55	0
57	MG	1A	3857	1/1	0.84	0.23	43,43,43,43	0
57	MG	1F	306	1/1	0.84	0.17	55,55,55,55	0
57	MG	1A	3865	1/1	0.84	0.12	34,34,34,34	0
57	MG	1a	1892	1/1	0.84	0.19	69,69,69,69	0
57	MG	1A	4000	1/1	0.84	0.25	77,77,77,77	0
57	MG	2a	1666	1/1	0.84	0.20	87,87,87,87	0
57	MG	2A	3348	1/1	0.84	0.10	78,78,78,78	0
57	MG	1P	203	1/1	0.84	0.21	47,47,47,47	0
57	MG	1R	203	1/1	0.84	0.17	46,46,46,46	0
57	MG	1a	1899	1/1	0.84	0.15	73,73,73,73	0
57	MG	2A	3364	1/1	0.84	0.29	58,58,58,58	0
57	MG	2A	3189	1/1	0.84	0.17	70,70,70,70	0
57	MG	2A	3725	1/1	0.84	0.15	58,58,58,58	0
57	MG	2a	1686	1/1	0.84	0.18	65,65,65,65	0
57	MG	2A	3377	1/1	0.84	0.18	79,79,79,79	0
57	MG	2A	3769	1/1	0.84	0.17	83,83,83,83	0
57	MG	2A	3379	1/1	0.84	0.24	58,58,58,58	0
57	MG	2a	1702	1/1	0.84	0.09	73,73,73,73	0
57	MG	2a	1703	1/1	0.84	0.12	67,67,67,67	0
57	MG	2a	1730	1/1	0.84	0.24	72,72,72,72	0
57	MG	2A	3385	1/1	0.84	0.25	69,69,69,69	0
57	MG	2A	3388	1/1	0.84	0.28	67,67,67,67	0
57	MG	1a	1903	1/1	0.84	0.44	77,77,77,77	0
57	MG	2A	3789	1/1	0.84	0.09	68,68,68,68	0
57	MG	2A	3790	1/1	0.84	0.12	58,58,58,58	0
57	MG	1S	3001	1/1	0.84	0.28	57,57,57,57	0
57	MG	2A	3796	1/1	0.84	0.13	72,72,72,72	0
57	MG	1A	3318	1/1	0.84	0.18	45,45,45,45	0
57	MG	1A	3691	1/1	0.84	0.10	44,44,44,44	0
57	MG	1A	3709	1/1	0.84	0.24	56,56,56,56	0
57	MG	1a	1816	1/1	0.84	0.15	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1s	3001	1/1	0.84	0.20	71,71,71,71	0
57	MG	2a	1767	1/1	0.84	0.16	76,76,76,76	0
57	MG	2A	3449	1/1	0.84	0.20	54,54,54,54	0
57	MG	2A	3219	1/1	0.84	0.18	67,67,67,67	0
57	MG	1Z	303	1/1	0.84	0.08	74,74,74,74	0
57	MG	1A	3712	1/1	0.84	0.12	48,48,48,48	0
57	MG	1l	102	1/1	0.84	0.14	76,76,76,76	0
57	MG	1A	3521	1/1	0.84	0.12	34,34,34,34	0
57	MG	1A	3526	1/1	0.84	0.13	55,55,55,55	0
57	MG	1A	4043	1/1	0.84	0.19	63,63,63,63	0
57	MG	1A	4053	1/1	0.84	0.19	64,64,64,64	0
57	MG	1a	1642	1/1	0.84	0.33	70,70,70,70	0
57	MG	2A	3533	1/1	0.84	0.13	48,48,48,48	0
57	MG	2A	3839	1/1	0.84	0.55	66,66,66,66	0
57	MG	2a	1798	1/1	0.84	0.20	69,69,69,69	0
57	MG	1a	1651	1/1	0.84	0.13	76,76,76,76	0
57	MG	2A	3252	1/1	0.84	0.24	70,70,70,70	0
57	MG	1A	3447	1/1	0.84	0.18	82,82,82,82	0
57	MG	2A	3254	1/1	0.84	0.14	69,69,69,69	0
57	MG	2A	3557	1/1	0.84	0.23	57,57,57,57	0
57	MG	1A	3403	1/1	0.84	0.19	63,63,63,63	0
57	MG	2B	3011	1/1	0.84	0.22	80,80,80,80	0
57	MG	2q	203	1/1	0.84	0.14	87,87,87,87	0
57	MG	2r	3001	1/1	0.84	0.26	84,84,84,84	0
57	MG	2A	3561	1/1	0.84	0.11	80,80,80,80	0
57	MG	1A	3931	1/1	0.84	0.20	69,69,69,69	0
57	MG	1a	1668	1/1	0.84	0.39	67,67,67,67	0
57	MG	1A	3202	1/1	0.84	0.49	50,50,50,50	0
57	MG	2A	3001	1/1	0.84	0.34	78,78,78,78	0
57	MG	1A	3044	1/1	0.84	0.23	65,65,65,65	0
57	MG	2E	308	1/1	0.84	0.19	73,73,73,73	0
57	MG	1A	3730	1/1	0.84	0.09	66,66,66,66	0
57	MG	1A	3736	1/1	0.84	0.10	69,69,69,69	0
57	MG	2A	3592	1/1	0.84	0.17	77,77,77,77	0
57	MG	1A	3375	1/1	0.84	0.24	66,66,66,66	0
57	MG	2a	1634	1/1	0.85	0.19	92,92,92,92	0
57	MG	2A	3138	1/1	0.85	0.17	70,70,70,70	0
57	MG	2A	3737	1/1	0.85	0.13	67,67,67,67	0
57	MG	2A	3524	1/1	0.85	0.14	59,59,59,59	0
57	MG	1a	1724	1/1	0.85	0.13	71,71,71,71	0
57	MG	1A	3121	1/1	0.85	0.14	52,52,52,52	0
57	MG	2A	3535	1/1	0.85	0.11	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	1648	1/1	0.85	0.36	74,74,74,74	0
57	MG	2A	3157	1/1	0.85	0.15	70,70,70,70	0
57	MG	1a	1602	1/1	0.85	0.12	65,65,65,65	0
57	MG	2A	3545	1/1	0.85	0.12	53,53,53,53	0
57	MG	2a	1660	1/1	0.85	0.26	72,72,72,72	0
57	MG	1a	1851	1/1	0.85	0.10	73,73,73,73	0
57	MG	1a	1607	1/1	0.85	0.11	69,69,69,69	0
57	MG	1B	219	1/1	0.85	0.12	60,60,60,60	0
57	MG	2A	3799	1/1	0.85	0.11	77,77,77,77	0
57	MG	2A	3179	1/1	0.85	0.24	79,79,79,79	0
57	MG	1w	105	1/1	0.85	0.19	69,69,69,69	0
57	MG	2A	3313	1/1	0.85	0.22	75,75,75,75	0
57	MG	1A	4032	1/1	0.85	0.13	71,71,71,71	0
57	MG	2A	3573	1/1	0.85	0.14	67,67,67,67	0
57	MG	1x	3001	1/1	0.85	0.35	74,74,74,74	0
57	MG	1a	1758	1/1	0.85	0.13	85,85,85,85	0
57	MG	1A	3194	1/1	0.85	0.19	61,61,61,61	0
57	MG	1a	1650	1/1	0.85	0.25	69,69,69,69	0
57	MG	1a	1774	1/1	0.85	0.12	78,78,78,78	0
57	MG	2A	3588	1/1	0.85	0.16	67,67,67,67	0
57	MG	2a	1719	1/1	0.85	0.15	82,82,82,82	0
57	MG	2a	1728	1/1	0.85	0.14	65,65,65,65	0
57	MG	2A	3591	1/1	0.85	0.13	76,76,76,76	0
57	MG	1A	4036	1/1	0.85	0.12	51,51,51,51	0
57	MG	2A	3206	1/1	0.85	0.22	72,72,72,72	0
57	MG	1A	3635	1/1	0.85	0.13	56,56,56,56	0
57	MG	1A	3344	1/1	0.85	0.21	64,64,64,64	0
57	MG	2A	3599	1/1	0.85	0.11	57,57,57,57	0
57	MG	1a	1659	1/1	0.85	0.26	85,85,85,85	0
57	MG	2a	1752	1/1	0.85	0.26	74,74,74,74	0
57	MG	1A	3734	1/1	0.85	0.16	64,64,64,64	0
57	MG	2a	1756	1/1	0.85	0.23	72,72,72,72	0
57	MG	2A	3606	1/1	0.85	0.21	53,53,53,53	0
57	MG	1A	3451	1/1	0.85	0.24	66,66,66,66	0
57	MG	1A	3395	1/1	0.85	0.17	66,66,66,66	0
57	MG	1A	4056	1/1	0.85	0.16	53,53,53,53	0
57	MG	2A	3233	1/1	0.85	0.33	75,75,75,75	0
57	MG	1A	3262	1/1	0.85	0.19	54,54,54,54	0
57	MG	2B	3014	1/1	0.85	0.23	74,74,74,74	0
57	MG	1a	1817	1/1	0.85	0.17	65,65,65,65	0
57	MG	2B	3018	1/1	0.85	0.11	80,80,80,80	0
57	MG	1A	3206	1/1	0.85	0.18	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3240	1/1	0.85	0.22	69,69,69,69	0
57	MG	2A	3037	1/1	0.85	0.22	75,75,75,75	0
57	MG	1a	1879	1/1	0.85	0.10	89,89,89,89	0
57	MG	2a	1782	1/1	0.85	0.23	84,84,84,84	0
57	MG	2a	1785	1/1	0.85	0.21	73,73,73,73	0
57	MG	2F	303	1/1	0.85	0.21	78,78,78,78	0
57	MG	2a	1788	1/1	0.85	0.20	76,76,76,76	0
57	MG	2a	1790	1/1	0.85	0.21	74,74,74,74	0
57	MG	1a	1822	1/1	0.85	0.22	55,55,55,55	0
57	MG	2A	3251	1/1	0.85	0.15	75,75,75,75	0
57	MG	1A	3918	1/1	0.85	0.13	65,65,65,65	0
57	MG	1A	3703	1/1	0.85	0.10	43,43,43,43	0
57	MG	2A	3668	1/1	0.85	0.27	50,50,50,50	0
57	MG	2U	202	1/1	0.85	0.20	65,65,65,65	0
57	MG	2U	203	1/1	0.85	0.33	67,67,67,67	0
57	MG	2d	502	1/1	0.85	0.08	75,75,75,75	0
57	MG	1A	3195	1/1	0.85	0.30	67,67,67,67	0
57	MG	1A	4073	1/1	0.85	0.16	63,63,63,63	0
57	MG	1T	202	1/1	0.85	0.24	70,70,70,70	0
57	MG	1A	3793	1/1	0.85	0.18	55,55,55,55	0
57	MG	2j	8002	1/1	0.85	0.08	79,79,79,79	0
57	MG	2A	3689	1/1	0.85	0.17	72,72,72,72	0
57	MG	2a	1609	1/1	0.85	0.22	68,68,68,68	0
57	MG	1A	3596	1/1	0.85	0.14	44,44,44,44	0
57	MG	2a	1614	1/1	0.85	0.11	70,70,70,70	0
57	MG	1A	3944	1/1	0.85	0.11	62,62,62,62	0
57	MG	1A	3368	1/1	0.85	0.11	51,51,51,51	0
57	MG	1a	1908	1/1	0.85	0.16	75,75,75,75	0
57	MG	2A	3486	1/1	0.85	0.19	81,81,81,81	0
57	MG	2a	1621	1/1	0.85	0.24	64,64,64,64	0
57	MG	1A	3319	1/1	0.85	0.17	53,53,53,53	0
57	MG	1A	3374	1/1	0.85	0.13	68,68,68,68	0
57	MG	2A	3721	1/1	0.85	0.11	62,62,62,62	0
57	MG	2A	3277	1/1	0.85	0.34	67,67,67,67	0
57	MG	2A	3279	1/1	0.85	0.18	67,67,67,67	0
57	MG	1A	4057	1/1	0.86	0.12	73,73,73,73	0
57	MG	2A	3686	1/1	0.86	0.10	62,62,62,62	0
57	MG	2a	1626	1/1	0.86	0.32	74,74,74,74	0
57	MG	1A	3263	1/1	0.86	0.20	61,61,61,61	0
57	MG	2A	3085	1/1	0.86	0.23	70,70,70,70	0
57	MG	2A	3701	1/1	0.86	0.10	61,61,61,61	0
57	MG	1A	3979	1/1	0.86	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
57	MG	1A	3652	1/1	0.86	0.12	37,37,37,37	0
57	MG	1A	3747	1/1	0.86	0.17	43,43,43,43	0
57	MG	2A	3093	1/1	0.86	0.17	71,71,71,71	0
57	MG	1A	4070	1/1	0.86	0.15	66,66,66,66	0
57	MG	1A	3020	1/1	0.86	0.13	45,45,45,45	0
57	MG	2A	3497	1/1	0.86	0.25	63,63,63,63	0
57	MG	1A	3246	1/1	0.86	0.29	63,63,63,63	0
57	MG	2A	3512	1/1	0.86	0.18	71,71,71,71	0
57	MG	1A	4075	1/1	0.86	0.43	51,51,51,51	0
57	MG	2A	3732	1/1	0.86	0.09	59,59,59,59	0
57	MG	2A	3515	1/1	0.86	0.10	37,37,37,37	0
57	MG	2a	1662	1/1	0.86	0.19	66,66,66,66	0
57	MG	2A	3516	1/1	0.86	0.14	70,70,70,70	0
57	MG	2A	3110	1/1	0.86	0.12	54,54,54,54	0
57	MG	2A	3275	1/1	0.86	0.18	75,75,75,75	0
57	MG	2a	1670	1/1	0.86	0.35	62,62,62,62	0
57	MG	2a	1672	1/1	0.86	0.33	74,74,74,74	0
57	MG	1A	3764	1/1	0.86	0.09	23,23,23,23	0
57	MG	2A	3135	1/1	0.86	0.27	63,63,63,63	0
57	MG	1A	3765	1/1	0.86	0.11	65,65,65,65	0
57	MG	2A	3534	1/1	0.86	0.19	72,72,72,72	0
57	MG	1A	3025	1/1	0.86	0.09	46,46,46,46	0
57	MG	1A	3553	1/1	0.86	0.11	44,44,44,44	0
57	MG	1w	102	1/1	0.86	0.31	73,73,73,73	0
57	MG	2A	3543	1/1	0.86	0.22	68,68,68,68	0
57	MG	1A	3280	1/1	0.86	0.18	57,57,57,57	0
57	MG	1B	206	1/1	0.86	0.20	74,74,74,74	0
57	MG	1A	3029	1/1	0.86	0.15	61,61,61,61	0
57	MG	1a	1635	1/1	0.86	0.14	64,64,64,64	0
57	MG	2a	1709	1/1	0.86	0.11	69,69,69,69	0
57	MG	2A	3303	1/1	0.86	0.27	77,77,77,77	0
57	MG	1A	3594	1/1	0.86	0.13	35,35,35,35	0
57	MG	1a	1863	1/1	0.86	0.24	73,73,73,73	0
57	MG	1A	4024	1/1	0.86	0.09	60,60,60,60	0
57	MG	1a	1782	1/1	0.86	0.16	77,77,77,77	0
57	MG	2A	3188	1/1	0.86	0.22	73,73,73,73	0
57	MG	1a	1786	1/1	0.86	0.14	62,62,62,62	0
57	MG	1a	1791	1/1	0.86	0.12	82,82,82,82	0
57	MG	1A	4031	1/1	0.86	0.19	67,67,67,67	0
57	MG	1A	3355	1/1	0.86	0.10	60,60,60,60	0
57	MG	1B	224	1/1	0.86	0.19	71,71,71,71	0
57	MG	2A	3590	1/1	0.86	0.12	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3260	1/1	0.86	0.11	55,55,55,55	0
57	MG	2A	3329	1/1	0.86	0.10	67,67,67,67	0
57	MG	1A	3290	1/1	0.86	0.13	63,63,63,63	0
57	MG	1a	1666	1/1	0.86	0.32	73,73,73,73	0
57	MG	2B	3003	1/1	0.86	0.32	73,73,73,73	0
57	MG	2A	3339	1/1	0.86	0.14	73,73,73,73	0
57	MG	1A	3365	1/1	0.86	0.11	59,59,59,59	0
57	MG	2A	3214	1/1	0.86	0.14	56,56,56,56	0
57	MG	2a	1772	1/1	0.86	0.24	66,66,66,66	0
57	MG	1A	3291	1/1	0.86	0.25	61,61,61,61	0
57	MG	2A	3224	1/1	0.86	0.34	72,72,72,72	0
57	MG	1A	3215	1/1	0.86	0.25	66,66,66,66	0
57	MG	2A	3025	1/1	0.86	0.13	53,53,53,53	0
57	MG	2A	3621	1/1	0.86	0.19	86,86,86,86	0
57	MG	1A	3965	1/1	0.86	0.20	59,59,59,59	0
57	MG	2A	3036	1/1	0.86	0.28	72,72,72,72	0
57	MG	1A	3623	1/1	0.86	0.12	63,63,63,63	0
57	MG	2E	304	1/1	0.86	0.16	69,69,69,69	0
57	MG	2A	3371	1/1	0.86	0.27	70,70,70,70	0
57	MG	2E	310	1/1	0.86	0.12	43,43,43,43	0
57	MG	1a	1681	1/1	0.86	0.25	64,64,64,64	0
57	MG	1a	1885	1/1	0.86	0.17	71,71,71,71	0
57	MG	2A	3641	1/1	0.86	0.13	69,69,69,69	0
57	MG	2A	3644	1/1	0.86	0.15	82,82,82,82	0
57	MG	2A	3646	1/1	0.86	0.23	78,78,78,78	0
57	MG	2A	3047	1/1	0.86	0.23	64,64,64,64	0
57	MG	2A	3651	1/1	0.86	0.12	75,75,75,75	0
57	MG	2A	3657	1/1	0.86	0.17	70,70,70,70	0
57	MG	2W	3001	1/1	0.86	0.13	62,62,62,62	0
57	MG	2X	3001	1/1	0.86	0.17	86,86,86,86	0
57	MG	2A	3659	1/1	0.86	0.15	74,74,74,74	0
57	MG	2A	3660	1/1	0.86	0.14	69,69,69,69	0
57	MG	2l	202	1/1	0.86	0.21	62,62,62,62	0
57	MG	2l	101	1/1	0.86	0.18	73,73,73,73	0
57	MG	1A	4055	1/1	0.86	0.15	72,72,72,72	0
57	MG	28	103	1/1	0.86	0.26	65,65,65,65	0
57	MG	2A	3389	1/1	0.86	0.22	54,54,54,54	0
57	MG	2a	1603	1/1	0.86	0.17	64,64,64,64	0
57	MG	2A	3053	1/1	0.86	0.19	75,75,75,75	0
57	MG	2A	3247	1/1	0.86	0.24	62,62,62,62	0
57	MG	2A	3666	1/1	0.86	0.12	46,46,46,46	0
57	MG	2A	3398	1/1	0.86	0.16	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3632	1/1	0.86	0.16	66,66,66,66	0
57	MG	2A	3407	1/1	0.86	0.23	75,75,75,75	0
57	MG	2A	3416	1/1	0.86	0.17	70,70,70,70	0
57	MG	2A	3677	1/1	0.86	0.15	64,64,64,64	0
57	MG	2A	3077	1/1	0.86	0.25	71,71,71,71	0
57	MG	2a	1633	1/1	0.87	0.17	78,78,78,78	0
57	MG	2A	3747	1/1	0.87	0.15	45,45,45,45	0
57	MG	2A	3766	1/1	0.87	0.14	67,67,67,67	0
57	MG	2A	3311	1/1	0.87	0.17	67,67,67,67	0
57	MG	1A	3827	1/1	0.87	0.15	45,45,45,45	0
57	MG	2A	3013	1/1	0.87	0.22	62,62,62,62	0
57	MG	2A	3777	1/1	0.87	0.14	69,69,69,69	0
57	MG	19	101	1/1	0.87	0.12	52,52,52,52	0
57	MG	1a	1826	1/1	0.87	0.22	60,60,60,60	0
57	MG	1A	3345	1/1	0.87	0.15	72,72,72,72	0
57	MG	2a	1650	1/1	0.87	0.20	76,76,76,76	0
57	MG	2A	3319	1/1	0.87	0.27	70,70,70,70	0
57	MG	2a	1653	1/1	0.87	0.30	75,75,75,75	0
57	MG	2A	3201	1/1	0.87	0.19	54,54,54,54	0
57	MG	1a	1605	1/1	0.87	0.17	66,66,66,66	0
57	MG	2A	3325	1/1	0.87	0.12	74,74,74,74	0
57	MG	2A	3031	1/1	0.87	0.18	62,62,62,62	0
57	MG	2A	3800	1/1	0.87	0.22	68,68,68,68	0
57	MG	2A	3034	1/1	0.87	0.21	69,69,69,69	0
57	MG	1A	3990	1/1	0.87	0.21	63,63,63,63	0
57	MG	2A	3583	1/1	0.87	0.10	68,68,68,68	0
57	MG	2A	3585	1/1	0.87	0.19	71,71,71,71	0
57	MG	2A	3809	1/1	0.87	0.13	73,73,73,73	0
57	MG	2A	3811	1/1	0.87	0.23	76,76,76,76	0
57	MG	2A	3211	1/1	0.87	0.24	71,71,71,71	0
57	MG	2A	3212	1/1	0.87	0.24	49,49,49,49	0
57	MG	1A	3735	1/1	0.87	0.22	36,36,36,36	0
57	MG	2a	1685	1/1	0.87	0.13	67,67,67,67	0
57	MG	1a	1623	1/1	0.87	0.27	64,64,64,64	0
57	MG	1a	1725	1/1	0.87	0.16	62,62,62,62	0
57	MG	1A	3997	1/1	0.87	0.22	61,61,61,61	0
57	MG	2A	3596	1/1	0.87	0.14	68,68,68,68	0
57	MG	2A	3049	1/1	0.87	0.22	75,75,75,75	0
57	MG	1a	1631	1/1	0.87	0.23	63,63,63,63	0
57	MG	2a	1705	1/1	0.87	0.11	75,75,75,75	0
57	MG	1A	3232	1/1	0.87	0.16	64,64,64,64	0
57	MG	2a	1713	1/1	0.87	0.12	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	1717	1/1	0.87	0.15	85,85,85,85	0
57	MG	1a	1911	1/1	0.87	0.10	79,79,79,79	0
57	MG	2a	1722	1/1	0.87	0.15	87,87,87,87	0
57	MG	2A	3062	1/1	0.87	0.36	64,64,64,64	0
57	MG	2a	1729	1/1	0.87	0.12	71,71,71,71	0
57	MG	2A	3605	1/1	0.87	0.12	66,66,66,66	0
57	MG	2A	3366	1/1	0.87	0.18	49,49,49,49	0
57	MG	1A	3295	1/1	0.87	0.19	54,54,54,54	0
57	MG	1B	234	1/1	0.87	0.20	84,84,84,84	0
57	MG	2a	1746	1/1	0.87	0.17	70,70,70,70	0
57	MG	1e	202	1/1	0.87	0.22	77,77,77,77	0
57	MG	2B	3005	1/1	0.87	0.11	76,76,76,76	0
57	MG	1A	3245	1/1	0.87	0.17	60,60,60,60	0
57	MG	1A	3751	1/1	0.87	0.17	64,64,64,64	0
57	MG	2B	3009	1/1	0.87	0.22	75,75,75,75	0
57	MG	2A	3246	1/1	0.87	0.18	63,63,63,63	0
57	MG	1A	4003	1/1	0.87	0.14	58,58,58,58	0
57	MG	1t	3001	1/1	0.87	0.28	67,67,67,67	0
57	MG	2A	3394	1/1	0.87	0.15	46,46,46,46	0
57	MG	2a	1764	1/1	0.87	0.22	65,65,65,65	0
57	MG	1A	3539	1/1	0.87	0.14	61,61,61,61	0
57	MG	1a	1660	1/1	0.87	0.18	73,73,73,73	0
57	MG	1I	3001	1/1	0.87	0.18	80,80,80,80	0
57	MG	1A	3199	1/1	0.87	0.18	70,70,70,70	0
57	MG	2A	3255	1/1	0.87	0.21	58,58,58,58	0
57	MG	2A	3103	1/1	0.87	0.19	70,70,70,70	0
57	MG	2A	3425	1/1	0.87	0.14	61,61,61,61	0
57	MG	2A	3433	1/1	0.87	0.13	67,67,67,67	0
57	MG	1a	1794	1/1	0.87	0.12	79,79,79,79	0
57	MG	2A	3436	1/1	0.87	0.11	49,49,49,49	0
57	MG	2A	3107	1/1	0.87	0.18	59,59,59,59	0
57	MG	1A	3498	1/1	0.87	0.09	48,48,48,48	0
57	MG	2A	3665	1/1	0.87	0.14	66,66,66,66	0
57	MG	1A	4029	1/1	0.87	0.15	58,58,58,58	0
57	MG	2A	3121	1/1	0.87	0.36	80,80,80,80	0
57	MG	1A	3499	1/1	0.87	0.11	24,24,24,24	0
57	MG	1A	3781	1/1	0.87	0.10	26,26,26,26	0
57	MG	1x	3008	1/1	0.87	0.16	81,81,81,81	0
57	MG	1A	4131	1/1	0.87	0.23	36,36,36,36	0
57	MG	2A	3679	1/1	0.87	0.10	66,66,66,66	0
57	MG	20	8002	1/1	0.87	0.12	75,75,75,75	0
57	MG	2a	1799	1/1	0.87	0.48	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3165	1/1	0.87	0.15	62,62,62,62	0
57	MG	26	502	1/1	0.87	0.22	73,73,73,73	0
57	MG	1a	1682	1/1	0.87	0.25	65,65,65,65	0
57	MG	2A	3506	1/1	0.87	0.18	63,63,63,63	0
57	MG	2e	3002	1/1	0.87	0.21	76,76,76,76	0
57	MG	2A	3281	1/1	0.87	0.18	69,69,69,69	0
57	MG	1A	3038	1/1	0.87	0.14	52,52,52,52	0
57	MG	2a	1604	1/1	0.87	0.11	75,75,75,75	0
57	MG	2A	3698	1/1	0.87	0.09	93,93,93,93	0
57	MG	2A	3162	1/1	0.87	0.15	58,58,58,58	0
57	MG	1A	3274	1/1	0.87	0.16	60,60,60,60	0
57	MG	2A	3705	1/1	0.87	0.10	83,83,83,83	0
57	MG	2A	3167	1/1	0.87	0.24	66,66,66,66	0
57	MG	2A	3172	1/1	0.87	0.13	72,72,72,72	0
57	MG	1A	3800	1/1	0.87	0.13	60,60,60,60	0
57	MG	1y	104	1/1	0.87	0.43	79,79,79,79	0
57	MG	1a	1687	1/1	0.87	0.20	68,68,68,68	0
57	MG	2x	105	1/1	0.87	0.26	78,78,78,78	0
57	MG	2y	3001	1/1	0.87	0.21	65,65,65,65	0
57	MG	1A	3680	1/1	0.87	0.11	19,19,19,19	0
57	MG	2A	3304	1/1	0.87	0.28	87,87,87,87	0
57	MG	2A	3536	1/1	0.87	0.22	66,66,66,66	0
57	MG	1A	4044	1/1	0.87	0.15	57,57,57,57	0
57	MG	2A	3306	1/1	0.87	0.14	71,71,71,71	0
57	MG	2A	3187	1/1	0.87	0.22	68,68,68,68	0
57	MG	2a	1632	1/1	0.87	0.17	78,78,78,78	0
57	MG	1A	3745	1/1	0.88	0.17	44,44,44,44	0
57	MG	1a	1805	1/1	0.88	0.10	73,73,73,73	0
57	MG	1A	3978	1/1	0.88	0.17	69,69,69,69	0
57	MG	1a	1810	1/1	0.88	0.12	72,72,72,72	0
57	MG	1a	1890	1/1	0.88	0.11	63,63,63,63	0
57	MG	2A	3782	1/1	0.88	0.12	66,66,66,66	0
57	MG	2A	3785	1/1	0.88	0.14	69,69,69,69	0
57	MG	2a	1644	1/1	0.88	0.18	58,58,58,58	0
57	MG	1a	1811	1/1	0.88	0.10	73,73,73,73	0
57	MG	2a	1647	1/1	0.88	0.22	64,64,64,64	0
57	MG	1a	1667	1/1	0.88	0.27	66,66,66,66	0
57	MG	1A	3185	1/1	0.88	0.23	64,64,64,64	0
57	MG	2A	3056	1/1	0.88	0.10	61,61,61,61	0
57	MG	2A	3058	1/1	0.88	0.27	57,57,57,57	0
57	MG	2A	3232	1/1	0.88	0.18	66,66,66,66	0
57	MG	1A	3411	1/1	0.88	0.24	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1N	201	1/1	0.88	0.23	52,52,52,52	0
57	MG	1a	1901	1/1	0.88	0.27	64,64,64,64	0
57	MG	1O	3001	1/1	0.88	0.11	70,70,70,70	0
57	MG	2A	3237	1/1	0.88	0.13	70,70,70,70	0
57	MG	2A	3359	1/1	0.88	0.29	55,55,55,55	0
57	MG	2a	1668	1/1	0.88	0.23	63,63,63,63	0
57	MG	2A	3239	1/1	0.88	0.20	67,67,67,67	0
57	MG	2a	1671	1/1	0.88	0.14	66,66,66,66	0
57	MG	1a	1904	1/1	0.88	0.15	67,67,67,67	0
57	MG	2A	3242	1/1	0.88	0.15	63,63,63,63	0
57	MG	2a	1676	1/1	0.88	0.21	73,73,73,73	0
57	MG	1A	3879	1/1	0.88	0.12	75,75,75,75	0
57	MG	2a	1679	1/1	0.88	0.18	75,75,75,75	0
57	MG	2A	3817	1/1	0.88	0.09	64,64,64,64	0
57	MG	1A	3091	1/1	0.88	0.12	43,43,43,43	0
57	MG	1A	3257	1/1	0.88	0.19	61,61,61,61	0
57	MG	2A	3380	1/1	0.88	0.33	71,71,71,71	0
57	MG	2A	3604	1/1	0.88	0.11	55,55,55,55	0
57	MG	2A	3826	1/1	0.88	0.12	70,70,70,70	0
57	MG	1A	3700	1/1	0.88	0.14	43,43,43,43	0
57	MG	2A	3387	1/1	0.88	0.15	52,52,52,52	0
57	MG	2A	3248	1/1	0.88	0.17	56,56,56,56	0
57	MG	1A	3097	1/1	0.88	0.17	65,65,65,65	0
57	MG	2A	3838	1/1	0.88	0.18	79,79,79,79	0
57	MG	1A	3261	1/1	0.88	0.10	58,58,58,58	0
57	MG	2A	3099	1/1	0.88	0.32	62,62,62,62	0
57	MG	2A	3844	1/1	0.88	0.22	65,65,65,65	0
57	MG	2A	3395	1/1	0.88	0.24	61,61,61,61	0
57	MG	2A	3850	1/1	0.88	0.35	56,56,56,56	0
57	MG	2a	1721	1/1	0.88	0.13	63,63,63,63	0
57	MG	1a	1686	1/1	0.88	0.29	69,69,69,69	0
57	MG	2A	3862	1/1	0.88	0.18	68,68,68,68	0
57	MG	1A	3598	1/1	0.88	0.11	50,50,50,50	0
57	MG	1A	3276	1/1	0.88	0.36	55,55,55,55	0
57	MG	2B	3004	1/1	0.88	0.28	79,79,79,79	0
57	MG	2A	3401	1/1	0.88	0.22	62,62,62,62	0
57	MG	1A	3928	1/1	0.88	0.22	41,41,41,41	0
57	MG	2B	3007	1/1	0.88	0.12	70,70,70,70	0
57	MG	2a	1747	1/1	0.88	0.14	76,76,76,76	0
57	MG	2A	3409	1/1	0.88	0.09	75,75,75,75	0
57	MG	1a	1837	1/1	0.88	0.31	70,70,70,70	0
57	MG	1A	3783	1/1	0.88	0.16	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3501	1/1	0.88	0.12	40,40,40,40	0
57	MG	2A	3656	1/1	0.88	0.09	67,67,67,67	0
57	MG	2A	3432	1/1	0.88	0.12	62,62,62,62	0
57	MG	1A	3788	1/1	0.88	0.19	76,76,76,76	0
57	MG	2B	3016	1/1	0.88	0.14	74,74,74,74	0
57	MG	2B	3017	1/1	0.88	0.12	75,75,75,75	0
57	MG	2A	3269	1/1	0.88	0.36	77,77,77,77	0
57	MG	2B	3020	1/1	0.88	0.28	72,72,72,72	0
57	MG	2B	3021	1/1	0.88	0.16	79,79,79,79	0
57	MG	1A	4013	1/1	0.88	0.20	63,63,63,63	0
57	MG	1a	1713	1/1	0.88	0.10	77,77,77,77	0
57	MG	2A	3446	1/1	0.88	0.15	69,69,69,69	0
57	MG	1A	4014	1/1	0.88	0.17	57,57,57,57	0
57	MG	1a	1847	1/1	0.88	0.14	63,63,63,63	0
57	MG	1A	4016	1/1	0.88	0.17	51,51,51,51	0
57	MG	2F	301	1/1	0.88	0.15	57,57,57,57	0
57	MG	2A	3460	1/1	0.88	0.10	55,55,55,55	0
57	MG	1A	3279	1/1	0.88	0.23	65,65,65,65	0
57	MG	2A	3480	1/1	0.88	0.12	44,44,44,44	0
57	MG	1B	208	1/1	0.88	0.17	53,53,53,53	0
57	MG	2A	3675	1/1	0.88	0.26	74,74,74,74	0
57	MG	1a	1616	1/1	0.88	0.10	68,68,68,68	0
57	MG	1A	3797	1/1	0.88	0.10	51,51,51,51	0
57	MG	1A	3519	1/1	0.88	0.09	47,47,47,47	0
57	MG	2A	3290	1/1	0.88	0.19	57,57,57,57	0
57	MG	1A	3806	1/1	0.88	0.09	41,41,41,41	0
57	MG	2A	3509	1/1	0.88	0.14	64,64,64,64	0
57	MG	2A	3690	1/1	0.88	0.09	87,87,87,87	0
57	MG	1A	3248	1/1	0.88	0.12	51,51,51,51	0
57	MG	1a	1632	1/1	0.88	0.17	72,72,72,72	0
57	MG	2A	3514	1/1	0.88	0.17	67,67,67,67	0
57	MG	1A	3449	1/1	0.88	0.30	66,66,66,66	0
57	MG	1a	1641	1/1	0.88	0.23	76,76,76,76	0
57	MG	1A	3450	1/1	0.88	0.21	59,59,59,59	0
57	MG	2a	1601	1/1	0.88	0.23	67,67,67,67	0
57	MG	1A	3398	1/1	0.88	0.11	64,64,64,64	0
57	MG	1A	3839	1/1	0.88	0.12	76,76,76,76	0
57	MG	2A	3717	1/1	0.88	0.14	60,60,60,60	0
57	MG	2A	3718	1/1	0.88	0.21	70,70,70,70	0
57	MG	2l	203	1/1	0.88	0.16	69,69,69,69	0
57	MG	2A	3191	1/1	0.88	0.13	74,74,74,74	0
57	MG	1a	1654	1/1	0.88	0.29	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3196	1/1	0.88	0.25	60,60,60,60	0
57	MG	2A	3722	1/1	0.88	0.17	75,75,75,75	0
57	MG	1a	1792	1/1	0.88	0.16	69,69,69,69	0
57	MG	2a	1619	1/1	0.88	0.10	89,89,89,89	0
57	MG	2A	3312	1/1	0.88	0.15	71,71,71,71	0
57	MG	2x	104	1/1	0.88	0.22	77,77,77,77	0
57	MG	1A	3399	1/1	0.88	0.24	44,44,44,44	0
57	MG	1B	233	1/1	0.88	0.12	73,73,73,73	0
57	MG	2A	3203	1/1	0.88	0.28	73,73,73,73	0
57	MG	1a	1657	1/1	0.88	0.19	61,61,61,61	0
57	MG	2A	3758	1/1	0.88	0.12	77,77,77,77	0
57	MG	1A	3364	1/1	0.88	0.17	66,66,66,66	0
57	MG	2A	3767	1/1	0.88	0.09	95,95,95,95	0
57	MG	2a	1631	1/1	0.88	0.13	75,75,75,75	0
57	MG	1A	3855	1/1	0.88	0.10	27,27,27,27	0
57	MG	1A	3325	1/1	0.89	0.23	47,47,47,47	0
57	MG	1A	3383	1/1	0.89	0.10	53,53,53,53	0
57	MG	1A	4074	1/1	0.89	0.21	67,67,67,67	0
57	MG	2a	1613	1/1	0.89	0.17	63,63,63,63	0
57	MG	2A	3205	1/1	0.89	0.21	66,66,66,66	0
57	MG	1A	3789	1/1	0.89	0.12	49,49,49,49	0
57	MG	2a	1616	1/1	0.89	0.21	71,71,71,71	0
57	MG	1a	1813	1/1	0.89	0.11	72,72,72,72	0
57	MG	1A	3387	1/1	0.89	0.10	63,63,63,63	0
57	MG	1a	1637	1/1	0.89	0.20	64,64,64,64	0
57	MG	2A	3403	1/1	0.89	0.26	63,63,63,63	0
57	MG	1A	4077	1/1	0.89	0.11	51,51,51,51	0
57	MG	2a	1622	1/1	0.89	0.37	63,63,63,63	0
57	MG	1A	3692	1/1	0.89	0.14	46,46,46,46	0
57	MG	1a	1646	1/1	0.89	0.10	70,70,70,70	0
57	MG	2a	1625	1/1	0.89	0.30	67,67,67,67	0
57	MG	2A	3702	1/1	0.89	0.08	57,57,57,57	0
57	MG	1a	1649	1/1	0.89	0.14	75,75,75,75	0
57	MG	2A	3423	1/1	0.89	0.19	77,77,77,77	0
57	MG	1A	4091	1/1	0.89	0.49	50,50,50,50	0
57	MG	2A	3710	1/1	0.89	0.09	82,82,82,82	0
57	MG	1A	4105	1/1	0.89	0.18	61,61,61,61	0
57	MG	1A	3699	1/1	0.89	0.09	31,31,31,31	0
57	MG	2A	3716	1/1	0.89	0.18	79,79,79,79	0
57	MG	2A	3229	1/1	0.89	0.38	63,63,63,63	0
57	MG	2A	3230	1/1	0.89	0.29	67,67,67,67	0
57	MG	2A	3439	1/1	0.89	0.12	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	4109	1/1	0.89	0.11	62,62,62,62	0
57	MG	1A	3805	1/1	0.89	0.10	61,61,61,61	0
57	MG	1A	3555	1/1	0.89	0.14	26,26,26,26	0
57	MG	1A	3976	1/1	0.89	0.13	65,65,65,65	0
57	MG	1A	3809	1/1	0.89	0.09	23,23,23,23	0
57	MG	2A	3459	1/1	0.89	0.17	58,58,58,58	0
57	MG	1A	3818	1/1	0.89	0.13	72,72,72,72	0
57	MG	2A	3469	1/1	0.89	0.10	49,49,49,49	0
57	MG	1A	3452	1/1	0.89	0.16	53,53,53,53	0
57	MG	1B	211	1/1	0.89	0.15	51,51,51,51	0
57	MG	1A	3826	1/1	0.89	0.10	56,56,56,56	0
57	MG	1B	216	1/1	0.89	0.14	51,51,51,51	0
57	MG	2a	1661	1/1	0.89	0.18	71,71,71,71	0
57	MG	1A	3986	1/1	0.89	0.16	68,68,68,68	0
57	MG	1a	1674	1/1	0.89	0.17	69,69,69,69	0
57	MG	1A	3330	1/1	0.89	0.11	50,50,50,50	0
57	MG	1a	1677	1/1	0.89	0.09	69,69,69,69	0
57	MG	1A	3588	1/1	0.89	0.19	62,62,62,62	0
57	MG	2a	1669	1/1	0.89	0.17	69,69,69,69	0
57	MG	1a	1854	1/1	0.89	0.15	68,68,68,68	0
57	MG	1a	1680	1/1	0.89	0.26	61,61,61,61	0
57	MG	2A	3783	1/1	0.89	0.12	73,73,73,73	0
57	MG	1a	1856	1/1	0.89	0.22	68,68,68,68	0
57	MG	2a	1675	1/1	0.89	0.20	76,76,76,76	0
57	MG	1A	3831	1/1	0.89	0.12	48,48,48,48	0
57	MG	1a	1858	1/1	0.89	0.13	57,57,57,57	0
57	MG	2A	3793	1/1	0.89	0.24	79,79,79,79	0
57	MG	1A	3144	1/1	0.89	0.17	72,72,72,72	0
57	MG	2A	3520	1/1	0.89	0.19	62,62,62,62	0
57	MG	1A	3086	1/1	0.89	0.23	49,49,49,49	0
57	MG	2A	3523	1/1	0.89	0.14	49,49,49,49	0
57	MG	1A	3841	1/1	0.89	0.11	57,57,57,57	0
57	MG	2A	3801	1/1	0.89	0.16	69,69,69,69	0
57	MG	2A	3802	1/1	0.89	0.09	68,68,68,68	0
57	MG	2a	1688	1/1	0.89	0.24	62,62,62,62	0
57	MG	2A	3526	1/1	0.89	0.17	69,69,69,69	0
57	MG	2A	3057	1/1	0.89	0.24	66,66,66,66	0
57	MG	2a	1701	1/1	0.89	0.26	76,76,76,76	0
57	MG	1B	230	1/1	0.89	0.11	72,72,72,72	0
57	MG	2A	3060	1/1	0.89	0.16	53,53,53,53	0
57	MG	1A	3843	1/1	0.89	0.11	29,29,29,29	0
57	MG	2A	3065	1/1	0.89	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
57	MG	1A	3039	1/1	0.89	0.24	59,59,59,59	0
57	MG	1A	3848	1/1	0.89	0.08	66,66,66,66	0
57	MG	1A	3050	1/1	0.89	0.14	59,59,59,59	0
57	MG	1A	3111	1/1	0.89	0.11	48,48,48,48	0
57	MG	1A	3409	1/1	0.89	0.15	57,57,57,57	0
57	MG	2a	1727	1/1	0.89	0.09	82,82,82,82	0
57	MG	2A	3555	1/1	0.89	0.17	48,48,48,48	0
57	MG	2A	3087	1/1	0.89	0.12	59,59,59,59	0
57	MG	2A	3089	1/1	0.89	0.15	65,65,65,65	0
57	MG	1a	1694	1/1	0.89	0.17	63,63,63,63	0
57	MG	1A	3604	1/1	0.89	0.13	58,58,58,58	0
57	MG	2A	3288	1/1	0.89	0.21	70,70,70,70	0
57	MG	1A	3605	1/1	0.89	0.15	55,55,55,55	0
57	MG	1A	3235	1/1	0.89	0.17	55,55,55,55	0
57	MG	1A	3266	1/1	0.89	0.20	60,60,60,60	0
57	MG	1A	3741	1/1	0.89	0.12	70,70,70,70	0
57	MG	1A	3744	1/1	0.89	0.14	56,56,56,56	0
57	MG	1A	3617	1/1	0.89	0.08	55,55,55,55	0
57	MG	2a	1753	1/1	0.89	0.28	64,64,64,64	0
57	MG	1A	3114	1/1	0.89	0.13	41,41,41,41	0
57	MG	1A	3626	1/1	0.89	0.10	20,20,20,20	0
57	MG	2A	3851	1/1	0.89	0.11	36,36,36,36	0
57	MG	2A	3856	1/1	0.89	0.17	49,49,49,49	0
57	MG	1a	1883	1/1	0.89	0.14	69,69,69,69	0
57	MG	1A	3920	1/1	0.89	0.19	50,50,50,50	0
57	MG	2B	3001	1/1	0.89	0.17	80,80,80,80	0
57	MG	2A	3114	1/1	0.89	0.11	63,63,63,63	0
57	MG	2A	3115	1/1	0.89	0.07	63,63,63,63	0
57	MG	2A	3116	1/1	0.89	0.10	75,75,75,75	0
57	MG	2A	3593	1/1	0.89	0.12	65,65,65,65	0
57	MG	2A	3117	1/1	0.89	0.26	54,54,54,54	0
57	MG	1a	1887	1/1	0.89	0.10	76,76,76,76	0
57	MG	2a	1774	1/1	0.89	0.27	68,68,68,68	0
57	MG	1U	202	1/1	0.89	0.11	58,58,58,58	0
57	MG	2A	3136	1/1	0.89	0.24	48,48,48,48	0
57	MG	1a	1751	1/1	0.89	0.16	65,65,65,65	0
57	MG	1A	3629	1/1	0.89	0.07	17,17,17,17	0
57	MG	2A	3143	1/1	0.89	0.29	64,64,64,64	0
57	MG	2a	1783	1/1	0.89	0.19	85,85,85,85	0
57	MG	2A	3144	1/1	0.89	0.28	67,67,67,67	0
57	MG	1A	3115	1/1	0.89	0.17	56,56,56,56	0
57	MG	1A	3273	1/1	0.89	0.27	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	1789	1/1	0.89	0.25	77,77,77,77	0
57	MG	2A	3614	1/1	0.89	0.17	80,80,80,80	0
57	MG	1a	1760	1/1	0.89	0.17	66,66,66,66	0
57	MG	1A	3084	1/1	0.89	0.26	47,47,47,47	0
57	MG	1a	1900	1/1	0.89	0.12	70,70,70,70	0
57	MG	1a	1765	1/1	0.89	0.12	87,87,87,87	0
57	MG	2A	3623	1/1	0.89	0.15	71,71,71,71	0
57	MG	2A	3165	1/1	0.89	0.15	59,59,59,59	0
57	MG	1A	3766	1/1	0.89	0.11	61,61,61,61	0
57	MG	2A	3171	1/1	0.89	0.33	63,63,63,63	0
57	MG	2E	309	1/1	0.89	0.13	62,62,62,62	0
57	MG	2A	3634	1/1	0.89	0.10	52,52,52,52	0
57	MG	15	102	1/1	0.89	0.10	66,66,66,66	0
57	MG	1A	3940	1/1	0.89	0.10	56,56,56,56	0
57	MG	1a	1789	1/1	0.89	0.22	67,67,67,67	0
57	MG	2A	3349	1/1	0.89	0.11	74,74,74,74	0
57	MG	2Q	3003	1/1	0.89	0.12	55,55,55,55	0
57	MG	1a	1790	1/1	0.89	0.20	69,69,69,69	0
57	MG	1A	3429	1/1	0.89	0.20	67,67,67,67	0
57	MG	2A	3648	1/1	0.89	0.12	69,69,69,69	0
57	MG	2q	201	1/1	0.89	0.18	64,64,64,64	0
57	MG	1d	502	1/1	0.89	0.23	81,81,81,81	0
57	MG	2A	3655	1/1	0.89	0.11	36,36,36,36	0
57	MG	2t	3001	1/1	0.89	0.17	58,58,58,58	0
57	MG	2A	3186	1/1	0.89	0.13	55,55,55,55	0
57	MG	2v	102	1/1	0.89	0.20	87,87,87,87	0
57	MG	2A	3362	1/1	0.89	0.22	55,55,55,55	0
57	MG	2A	3363	1/1	0.89	0.34	64,64,64,64	0
57	MG	1A	3945	1/1	0.89	0.19	69,69,69,69	0
57	MG	1A	3669	1/1	0.89	0.08	38,38,38,38	0
57	MG	1A	3135	1/1	0.89	0.09	43,43,43,43	0
57	MG	1n	502	1/1	0.89	0.38	66,66,66,66	0
57	MG	28	101	1/1	0.89	0.16	78,78,78,78	0
57	MG	2A	3192	1/1	0.89	0.07	62,62,62,62	0
57	MG	2A	3193	1/1	0.89	0.17	58,58,58,58	0
57	MG	1A	3950	1/1	0.89	0.10	62,62,62,62	0
57	MG	1A	3323	1/1	0.89	0.10	56,56,56,56	0
57	MG	1a	1617	1/1	0.89	0.14	59,59,59,59	0
57	MG	1A	3786	1/1	0.89	0.16	74,74,74,74	0
57	MG	1a	1612	1/1	0.90	0.08	71,71,71,71	0
57	MG	1A	4059	1/1	0.90	0.09	60,60,60,60	0
57	MG	1A	3479	1/1	0.90	0.24	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3413	1/1	0.90	0.09	70,70,70,70	0
57	MG	1a	1619	1/1	0.90	0.28	70,70,70,70	0
57	MG	1A	3497	1/1	0.90	0.11	21,21,21,21	0
57	MG	1A	4063	1/1	0.90	0.11	54,54,54,54	0
57	MG	1a	1625	1/1	0.90	0.18	68,68,68,68	0
57	MG	1A	3396	1/1	0.90	0.12	55,55,55,55	0
57	MG	1a	1627	1/1	0.90	0.37	62,62,62,62	0
57	MG	1A	3397	1/1	0.90	0.23	62,62,62,62	0
57	MG	1A	3131	1/1	0.90	0.18	59,59,59,59	0
57	MG	1a	1634	1/1	0.90	0.12	62,62,62,62	0
57	MG	1A	3336	1/1	0.90	0.35	54,54,54,54	0
57	MG	1a	1636	1/1	0.90	0.29	70,70,70,70	0
57	MG	1A	3506	1/1	0.90	0.09	12,12,12,12	0
57	MG	1A	3513	1/1	0.90	0.17	49,49,49,49	0
57	MG	1A	3400	1/1	0.90	0.32	61,61,61,61	0
57	MG	1a	1829	1/1	0.90	0.16	50,50,50,50	0
57	MG	1A	3337	1/1	0.90	0.17	64,64,64,64	0
57	MG	2A	3464	1/1	0.90	0.17	67,67,67,67	0
57	MG	2A	3729	1/1	0.90	0.16	76,76,76,76	0
57	MG	1a	1831	1/1	0.90	0.16	82,82,82,82	0
57	MG	1a	1647	1/1	0.90	0.18	72,72,72,72	0
57	MG	2A	3742	1/1	0.90	0.10	50,50,50,50	0
57	MG	1A	3402	1/1	0.90	0.13	44,44,44,44	0
57	MG	2A	3481	1/1	0.90	0.09	52,52,52,52	0
57	MG	1A	3693	1/1	0.90	0.10	64,64,64,64	0
57	MG	1A	3963	1/1	0.90	0.08	44,44,44,44	0
57	MG	2A	3487	1/1	0.90	0.10	44,44,44,44	0
57	MG	1a	1653	1/1	0.90	0.11	65,65,65,65	0
57	MG	2a	1655	1/1	0.90	0.18	67,67,67,67	0
57	MG	1A	3105	1/1	0.90	0.20	30,30,30,30	0
57	MG	2a	1659	1/1	0.90	0.20	65,65,65,65	0
57	MG	1A	3045	1/1	0.90	0.14	54,54,54,54	0
57	MG	2A	3505	1/1	0.90	0.10	67,67,67,67	0
57	MG	1A	3970	1/1	0.90	0.14	55,55,55,55	0
57	MG	2a	1664	1/1	0.90	0.28	71,71,71,71	0
57	MG	1A	4110	1/1	0.90	0.12	69,69,69,69	0
57	MG	1A	4116	1/1	0.90	0.32	37,37,37,37	0
57	MG	1a	1845	1/1	0.90	0.15	79,79,79,79	0
57	MG	1a	1846	1/1	0.90	0.14	73,73,73,73	0
57	MG	2A	3257	1/1	0.90	0.14	59,59,59,59	0
57	MG	2A	3791	1/1	0.90	0.18	62,62,62,62	0
57	MG	2A	3792	1/1	0.90	0.17	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3702	1/1	0.90	0.18	71,71,71,71	0
57	MG	2A	3064	1/1	0.90	0.10	54,54,54,54	0
57	MG	2A	3262	1/1	0.90	0.16	68,68,68,68	0
57	MG	2A	3265	1/1	0.90	0.17	67,67,67,67	0
57	MG	1A	3824	1/1	0.90	0.07	23,23,23,23	0
57	MG	2A	3070	1/1	0.90	0.15	57,57,57,57	0
57	MG	2A	3071	1/1	0.90	0.14	62,62,62,62	0
57	MG	1A	3258	1/1	0.90	0.32	60,60,60,60	0
57	MG	1A	3704	1/1	0.90	0.15	62,62,62,62	0
57	MG	1A	3352	1/1	0.90	0.25	39,39,39,39	0
57	MG	2A	3083	1/1	0.90	0.29	63,63,63,63	0
57	MG	1A	3981	1/1	0.90	0.20	60,60,60,60	0
57	MG	1B	209	1/1	0.90	0.13	65,65,65,65	0
57	MG	1A	3287	1/1	0.90	0.11	64,64,64,64	0
57	MG	1A	3148	1/1	0.90	0.28	38,38,38,38	0
57	MG	2a	1691	1/1	0.90	0.28	68,68,68,68	0
57	MG	1A	3834	1/1	0.90	0.11	41,41,41,41	0
57	MG	2a	1696	1/1	0.90	0.22	69,69,69,69	0
57	MG	2A	3283	1/1	0.90	0.14	61,61,61,61	0
57	MG	2A	3284	1/1	0.90	0.14	63,63,63,63	0
57	MG	1A	3838	1/1	0.90	0.11	70,70,70,70	0
57	MG	2A	3822	1/1	0.90	0.14	78,78,78,78	0
57	MG	2a	1708	1/1	0.90	0.07	95,95,95,95	0
57	MG	1A	3042	1/1	0.90	0.20	57,57,57,57	0
57	MG	2a	1711	1/1	0.90	0.15	80,80,80,80	0
57	MG	2a	1712	1/1	0.90	0.12	71,71,71,71	0
57	MG	1A	3989	1/1	0.90	0.23	58,58,58,58	0
57	MG	1A	3426	1/1	0.90	0.12	63,63,63,63	0
57	MG	2A	3292	1/1	0.90	0.24	62,62,62,62	0
57	MG	2A	3828	1/1	0.90	0.22	74,74,74,74	0
57	MG	1A	3991	1/1	0.90	0.11	54,54,54,54	0
57	MG	2a	1725	1/1	0.90	0.19	77,77,77,77	0
57	MG	2A	3297	1/1	0.90	0.22	61,61,61,61	0
57	MG	2A	3298	1/1	0.90	0.22	55,55,55,55	0
57	MG	1A	3994	1/1	0.90	0.10	54,54,54,54	0
57	MG	1A	3099	1/1	0.90	0.11	68,68,68,68	0
57	MG	2a	1731	1/1	0.90	0.12	77,77,77,77	0
57	MG	1A	3578	1/1	0.90	0.14	27,27,27,27	0
57	MG	2A	3582	1/1	0.90	0.16	72,72,72,72	0
57	MG	1A	3725	1/1	0.90	0.15	61,61,61,61	0
57	MG	1A	3850	1/1	0.90	0.12	58,58,58,58	0
57	MG	1A	3728	1/1	0.90	0.12	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1E	304	1/1	0.90	0.16	57,57,57,57	0
57	MG	1A	3581	1/1	0.90	0.10	73,73,73,73	0
57	MG	2A	3307	1/1	0.90	0.14	54,54,54,54	0
57	MG	1A	3118	1/1	0.90	0.21	47,47,47,47	0
57	MG	1a	1695	1/1	0.90	0.10	69,69,69,69	0
57	MG	1a	1701	1/1	0.90	0.24	73,73,73,73	0
57	MG	2A	3122	1/1	0.90	0.14	86,86,86,86	0
57	MG	2A	3126	1/1	0.90	0.22	49,49,49,49	0
57	MG	1a	1881	1/1	0.90	0.14	70,70,70,70	0
57	MG	1a	1702	1/1	0.90	0.12	66,66,66,66	0
57	MG	2A	3600	1/1	0.90	0.18	74,74,74,74	0
57	MG	1F	304	1/1	0.90	0.14	54,54,54,54	0
57	MG	1A	3178	1/1	0.90	0.17	54,54,54,54	0
57	MG	1F	308	1/1	0.90	0.12	57,57,57,57	0
57	MG	1A	3869	1/1	0.90	0.08	44,44,44,44	0
57	MG	1A	3446	1/1	0.90	0.14	67,67,67,67	0
57	MG	2A	3613	1/1	0.90	0.12	76,76,76,76	0
57	MG	1A	3309	1/1	0.90	0.36	39,39,39,39	0
57	MG	1N	202	1/1	0.90	0.10	53,53,53,53	0
57	MG	1A	4017	1/1	0.90	0.09	56,56,56,56	0
57	MG	2A	3617	1/1	0.90	0.14	64,64,64,64	0
57	MG	2a	1779	1/1	0.90	0.16	75,75,75,75	0
57	MG	1A	3179	1/1	0.90	0.15	47,47,47,47	0
57	MG	1a	1732	1/1	0.90	0.15	64,64,64,64	0
57	MG	2A	3338	1/1	0.90	0.21	73,73,73,73	0
57	MG	1a	1734	1/1	0.90	0.11	63,63,63,63	0
57	MG	1A	3237	1/1	0.90	0.15	64,64,64,64	0
57	MG	2A	3342	1/1	0.90	0.15	65,65,65,65	0
57	MG	2A	3343	1/1	0.90	0.11	57,57,57,57	0
57	MG	1A	3900	1/1	0.90	0.13	75,75,75,75	0
57	MG	1A	3270	1/1	0.90	0.14	66,66,66,66	0
57	MG	2A	3173	1/1	0.90	0.18	58,58,58,58	0
57	MG	2A	3177	1/1	0.90	0.28	65,65,65,65	0
57	MG	1S	3002	1/1	0.90	0.15	47,47,47,47	0
57	MG	2O	8001	1/1	0.90	0.14	62,62,62,62	0
57	MG	2A	3352	1/1	0.90	0.15	70,70,70,70	0
57	MG	1A	3907	1/1	0.90	0.07	25,25,25,25	0
57	MG	1a	1909	1/1	0.90	0.27	68,68,68,68	0
57	MG	2a	1801	1/1	0.90	0.16	63,63,63,63	0
57	MG	1A	3382	1/1	0.90	0.16	56,56,56,56	0
57	MG	2T	3002	1/1	0.90	0.11	61,61,61,61	0
57	MG	2A	3361	1/1	0.90	0.24	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3180	1/1	0.90	0.24	49,49,49,49	0
57	MG	2f	3002	1/1	0.90	0.10	76,76,76,76	0
57	MG	1U	204	1/1	0.90	0.11	58,58,58,58	0
57	MG	1A	3101	1/1	0.90	0.12	44,44,44,44	0
57	MG	1e	201	1/1	0.90	0.08	75,75,75,75	0
57	MG	1a	1767	1/1	0.90	0.13	78,78,78,78	0
57	MG	1A	4038	1/1	0.90	0.10	59,59,59,59	0
57	MG	1a	1775	1/1	0.90	0.07	72,72,72,72	0
57	MG	1A	3388	1/1	0.90	0.20	61,61,61,61	0
57	MG	2l	102	1/1	0.90	0.17	63,63,63,63	0
57	MG	23	101	1/1	0.90	0.15	64,64,64,64	0
57	MG	25	103	1/1	0.90	0.12	68,68,68,68	0
57	MG	1A	3760	1/1	0.90	0.14	25,25,25,25	0
57	MG	1A	3927	1/1	0.90	0.33	44,44,44,44	0
57	MG	13	101	1/1	0.90	0.12	76,76,76,76	0
57	MG	1A	4045	1/1	0.90	0.13	72,72,72,72	0
57	MG	2A	3199	1/1	0.90	0.19	62,62,62,62	0
57	MG	2A	3672	1/1	0.90	0.14	66,66,66,66	0
57	MG	1A	4047	1/1	0.90	0.16	62,62,62,62	0
57	MG	1a	1793	1/1	0.90	0.18	61,61,61,61	0
57	MG	1A	3390	1/1	0.90	0.18	56,56,56,56	0
57	MG	2a	1608	1/1	0.90	0.47	77,77,77,77	0
57	MG	1A	3326	1/1	0.90	0.16	64,64,64,64	0
57	MG	1A	3472	1/1	0.90	0.10	50,50,50,50	0
57	MG	2a	1612	1/1	0.90	0.23	65,65,65,65	0
57	MG	1A	3129	1/1	0.90	0.13	46,46,46,46	0
57	MG	2A	3688	1/1	0.90	0.08	61,61,61,61	0
57	MG	1A	3936	1/1	0.90	0.12	60,60,60,60	0
57	MG	1E	309	1/1	0.91	0.34	45,45,45,45	0
57	MG	1A	3531	1/1	0.91	0.11	15,15,15,15	0
57	MG	1A	3332	1/1	0.91	0.13	54,54,54,54	0
57	MG	2A	3166	1/1	0.91	0.18	72,72,72,72	0
57	MG	1A	3040	1/1	0.91	0.11	55,55,55,55	0
57	MG	2A	3795	1/1	0.91	0.17	78,78,78,78	0
57	MG	2A	3168	1/1	0.91	0.25	61,61,61,61	0
57	MG	1A	3676	1/1	0.91	0.14	60,60,60,60	0
57	MG	1A	3679	1/1	0.91	0.16	29,29,29,29	0
57	MG	1A	3448	1/1	0.91	0.33	62,62,62,62	0
57	MG	2A	3562	1/1	0.91	0.28	52,52,52,52	0
57	MG	1x	3002	1/1	0.91	0.14	74,74,74,74	0
57	MG	1A	3681	1/1	0.91	0.08	37,37,37,37	0
57	MG	1A	3939	1/1	0.91	0.09	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3321	1/1	0.91	0.17	64,64,64,64	0
57	MG	2A	3181	1/1	0.91	0.18	62,62,62,62	0
57	MG	1A	3544	1/1	0.91	0.10	56,56,56,56	0
57	MG	2A	3326	1/1	0.91	0.23	72,72,72,72	0
57	MG	2A	3580	1/1	0.91	0.10	57,57,57,57	0
57	MG	1A	3174	1/1	0.91	0.19	45,45,45,45	0
57	MG	1P	204	1/1	0.91	0.15	62,62,62,62	0
57	MG	1A	3795	1/1	0.91	0.11	60,60,60,60	0
57	MG	2A	3331	1/1	0.91	0.29	64,64,64,64	0
57	MG	2A	3819	1/1	0.91	0.18	57,57,57,57	0
57	MG	2a	1674	1/1	0.91	0.11	69,69,69,69	0
57	MG	1x	3013	1/1	0.91	0.19	77,77,77,77	0
57	MG	1A	3198	1/1	0.91	0.27	41,41,41,41	0
57	MG	1A	3564	1/1	0.91	0.12	29,29,29,29	0
57	MG	2a	1678	1/1	0.91	0.12	76,76,76,76	0
57	MG	1A	3265	1/1	0.91	0.28	56,56,56,56	0
57	MG	1A	3951	1/1	0.91	0.08	31,31,31,31	0
57	MG	1A	3074	1/1	0.91	0.18	47,47,47,47	0
57	MG	1A	3244	1/1	0.91	0.20	52,52,52,52	0
57	MG	1a	1848	1/1	0.91	0.12	82,82,82,82	0
57	MG	1A	3816	1/1	0.91	0.13	60,60,60,60	0
57	MG	1a	1700	1/1	0.91	0.18	67,67,67,67	0
57	MG	1X	3005	1/1	0.91	0.16	52,52,52,52	0
57	MG	1A	3268	1/1	0.91	0.19	51,51,51,51	0
57	MG	2A	3351	1/1	0.91	0.08	73,73,73,73	0
57	MG	2A	3024	1/1	0.91	0.14	63,63,63,63	0
57	MG	2a	1692	1/1	0.91	0.21	51,51,51,51	0
57	MG	1A	3354	1/1	0.91	0.14	71,71,71,71	0
57	MG	2A	3848	1/1	0.91	0.18	70,70,70,70	0
57	MG	2a	1698	1/1	0.91	0.12	68,68,68,68	0
57	MG	1A	3303	1/1	0.91	0.23	47,47,47,47	0
57	MG	1A	3595	1/1	0.91	0.14	52,52,52,52	0
57	MG	1A	4066	1/1	0.91	0.15	54,54,54,54	0
57	MG	1A	3468	1/1	0.91	0.13	36,36,36,36	0
57	MG	1A	3717	1/1	0.91	0.24	58,58,58,58	0
57	MG	2A	3038	1/1	0.91	0.10	63,63,63,63	0
57	MG	2A	3039	1/1	0.91	0.27	68,68,68,68	0
57	MG	2A	3369	1/1	0.91	0.19	65,65,65,65	0
57	MG	1A	3077	1/1	0.91	0.22	39,39,39,39	0
57	MG	2A	3627	1/1	0.91	0.14	45,45,45,45	0
57	MG	2A	3218	1/1	0.91	0.12	62,62,62,62	0
57	MG	18	104	1/1	0.91	0.15	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3313	1/1	0.91	0.15	52,52,52,52	0
57	MG	1A	3974	1/1	0.91	0.09	76,76,76,76	0
57	MG	1A	3722	1/1	0.91	0.11	52,52,52,52	0
57	MG	2A	3636	1/1	0.91	0.11	60,60,60,60	0
57	MG	1A	3156	1/1	0.91	0.14	47,47,47,47	0
57	MG	1a	1608	1/1	0.91	0.25	68,68,68,68	0
57	MG	1a	1748	1/1	0.91	0.09	68,68,68,68	0
57	MG	2a	1732	1/1	0.91	0.12	90,90,90,90	0
57	MG	1a	1611	1/1	0.91	0.10	68,68,68,68	0
57	MG	1A	3977	1/1	0.91	0.13	75,75,75,75	0
57	MG	1a	1614	1/1	0.91	0.15	60,60,60,60	0
57	MG	2a	1744	1/1	0.91	0.17	51,51,51,51	0
57	MG	2A	3649	1/1	0.91	0.07	61,61,61,61	0
57	MG	1A	3143	1/1	0.91	0.13	56,56,56,56	0
57	MG	2A	3063	1/1	0.91	0.17	60,60,60,60	0
57	MG	1A	3603	1/1	0.91	0.11	45,45,45,45	0
57	MG	1A	3207	1/1	0.91	0.10	48,48,48,48	0
57	MG	2A	3402	1/1	0.91	0.13	68,68,68,68	0
57	MG	2E	307	1/1	0.91	0.20	64,64,64,64	0
57	MG	2A	3067	1/1	0.91	0.31	52,52,52,52	0
57	MG	2A	3241	1/1	0.91	0.14	60,60,60,60	0
57	MG	2A	3069	1/1	0.91	0.16	27,27,27,27	0
57	MG	2a	1760	1/1	0.91	0.19	77,77,77,77	0
57	MG	1A	3982	1/1	0.91	0.12	59,59,59,59	0
57	MG	1A	3369	1/1	0.91	0.19	62,62,62,62	0
57	MG	2A	3420	1/1	0.91	0.11	60,60,60,60	0
57	MG	2A	3075	1/1	0.91	0.08	56,56,56,56	0
57	MG	1A	3606	1/1	0.91	0.11	46,46,46,46	0
57	MG	1A	3849	1/1	0.91	0.12	46,46,46,46	0
57	MG	2A	3080	1/1	0.91	0.32	72,72,72,72	0
57	MG	1a	1884	1/1	0.91	0.10	72,72,72,72	0
57	MG	2T	3001	1/1	0.91	0.11	68,68,68,68	0
57	MG	1A	3322	1/1	0.91	0.10	65,65,65,65	0
57	MG	1a	1886	1/1	0.91	0.17	83,83,83,83	0
57	MG	2A	3676	1/1	0.91	0.13	74,74,74,74	0
57	MG	1a	1630	1/1	0.91	0.31	62,62,62,62	0
57	MG	1A	3613	1/1	0.91	0.08	47,47,47,47	0
57	MG	1A	3854	1/1	0.91	0.12	52,52,52,52	0
57	MG	1A	3416	1/1	0.91	0.15	36,36,36,36	0
57	MG	1A	3739	1/1	0.91	0.15	66,66,66,66	0
57	MG	1a	1894	1/1	0.91	0.09	64,64,64,64	0
57	MG	2A	3455	1/1	0.91	0.10	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3456	1/1	0.91	0.11	50,50,50,50	0
57	MG	2A	3458	1/1	0.91	0.10	38,38,38,38	0
57	MG	1a	1895	1/1	0.91	0.14	88,88,88,88	0
57	MG	1a	1896	1/1	0.91	0.13	63,63,63,63	0
57	MG	1A	3860	1/1	0.91	0.07	80,80,80,80	0
57	MG	2A	3468	1/1	0.91	0.14	73,73,73,73	0
57	MG	2A	3267	1/1	0.91	0.20	71,71,71,71	0
57	MG	2a	1794	1/1	0.91	0.19	76,76,76,76	0
57	MG	1A	3373	1/1	0.91	0.16	69,69,69,69	0
57	MG	2a	1796	1/1	0.91	0.12	79,79,79,79	0
57	MG	1A	3742	1/1	0.91	0.06	25,25,25,25	0
57	MG	1A	3871	1/1	0.91	0.11	50,50,50,50	0
57	MG	1A	3208	1/1	0.91	0.14	48,48,48,48	0
57	MG	2A	3715	1/1	0.91	0.11	55,55,55,55	0
57	MG	2A	3272	1/1	0.91	0.22	67,67,67,67	0
57	MG	1A	3209	1/1	0.91	0.14	61,61,61,61	0
57	MG	1A	3211	1/1	0.91	0.09	55,55,55,55	0
57	MG	2A	3494	1/1	0.91	0.20	73,73,73,73	0
57	MG	2A	3496	1/1	0.91	0.11	72,72,72,72	0
57	MG	1A	3186	1/1	0.91	0.10	53,53,53,53	0
57	MG	2A	3500	1/1	0.91	0.25	70,70,70,70	0
57	MG	1B	226	1/1	0.91	0.08	46,46,46,46	0
57	MG	1A	3331	1/1	0.91	0.10	57,57,57,57	0
57	MG	1A	4012	1/1	0.91	0.11	52,52,52,52	0
57	MG	1a	1913	1/1	0.91	0.18	63,63,63,63	0
57	MG	2A	3731	1/1	0.91	0.10	63,63,63,63	0
57	MG	1b	3001	1/1	0.91	0.13	87,87,87,87	0
57	MG	2A	3734	1/1	0.91	0.08	60,60,60,60	0
57	MG	1A	3901	1/1	0.91	0.12	19,19,19,19	0
57	MG	1A	3649	1/1	0.91	0.08	31,31,31,31	0
57	MG	1A	3434	1/1	0.91	0.29	51,51,51,51	0
57	MG	1A	3763	1/1	0.91	0.08	35,35,35,35	0
57	MG	2A	3139	1/1	0.91	0.12	46,46,46,46	0
57	MG	1A	3653	1/1	0.91	0.08	33,33,33,33	0
57	MG	2A	3141	1/1	0.91	0.12	59,59,59,59	0
57	MG	1f	3001	1/1	0.91	0.23	61,61,61,61	0
57	MG	1D	3004	1/1	0.91	0.15	42,42,42,42	0
57	MG	2A	3147	1/1	0.91	0.18	68,68,68,68	0
57	MG	1a	1821	1/1	0.91	0.18	69,69,69,69	0
57	MG	2A	3154	1/1	0.91	0.27	71,71,71,71	0
57	MG	2A	3155	1/1	0.91	0.20	62,62,62,62	0
57	MG	1A	3445	1/1	0.91	0.13	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	1639	1/1	0.91	0.09	55,55,55,55	0
57	MG	1A	4028	1/1	0.91	0.09	60,60,60,60	0
57	MG	1A	3667	1/1	0.91	0.07	78,78,78,78	0
57	MG	1A	4040	1/1	0.92	0.12	82,82,82,82	0
57	MG	1A	3714	1/1	0.92	0.13	61,61,61,61	0
57	MG	1A	3559	1/1	0.92	0.10	39,39,39,39	0
57	MG	1A	3875	1/1	0.92	0.10	60,60,60,60	0
57	MG	2A	3078	1/1	0.92	0.10	51,51,51,51	0
57	MG	1A	3718	1/1	0.92	0.15	49,49,49,49	0
57	MG	1A	4046	1/1	0.92	0.11	70,70,70,70	0
57	MG	2V	202	1/1	0.92	0.14	58,58,58,58	0
57	MG	1A	3563	1/1	0.92	0.07	21,21,21,21	0
57	MG	2A	3603	1/1	0.92	0.14	69,69,69,69	0
57	MG	1a	1629	1/1	0.92	0.24	69,69,69,69	0
57	MG	1A	4051	1/1	0.92	0.11	48,48,48,48	0
57	MG	1A	4052	1/1	0.92	0.11	59,59,59,59	0
57	MG	2A	3609	1/1	0.92	0.15	72,72,72,72	0
57	MG	1A	3430	1/1	0.92	0.17	51,51,51,51	0
57	MG	2A	3308	1/1	0.92	0.12	62,62,62,62	0
57	MG	25	102	1/1	0.92	0.23	58,58,58,58	0
57	MG	1a	1633	1/1	0.92	0.10	66,66,66,66	0
57	MG	1A	3297	1/1	0.92	0.23	44,44,44,44	0
57	MG	1A	3570	1/1	0.92	0.08	31,31,31,31	0
57	MG	1A	3903	1/1	0.92	0.08	49,49,49,49	0
57	MG	1A	3904	1/1	0.92	0.13	66,66,66,66	0
57	MG	1A	3259	1/1	0.92	0.25	59,59,59,59	0
57	MG	1A	3441	1/1	0.92	0.20	59,59,59,59	0
57	MG	1a	1644	1/1	0.92	0.13	74,74,74,74	0
57	MG	2A	3102	1/1	0.92	0.22	69,69,69,69	0
57	MG	1A	3726	1/1	0.92	0.20	47,47,47,47	0
57	MG	1A	3914	1/1	0.92	0.11	33,33,33,33	0
57	MG	2A	3106	1/1	0.92	0.15	58,58,58,58	0
57	MG	1A	3210	1/1	0.92	0.20	74,74,74,74	0
57	MG	1A	3310	1/1	0.92	0.15	64,64,64,64	0
57	MG	1A	3590	1/1	0.92	0.08	22,22,22,22	0
57	MG	1A	3593	1/1	0.92	0.08	25,25,25,25	0
57	MG	1A	3063	1/1	0.92	0.43	50,50,50,50	0
57	MG	1A	3316	1/1	0.92	0.12	52,52,52,52	0
57	MG	1A	3212	1/1	0.92	0.08	50,50,50,50	0
57	MG	2A	3334	1/1	0.92	0.28	63,63,63,63	0
57	MG	2A	3336	1/1	0.92	0.24	52,52,52,52	0
57	MG	2A	3652	1/1	0.92	0.32	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3092	1/1	0.92	0.18	48,48,48,48	0
57	MG	1A	3117	1/1	0.92	0.11	40,40,40,40	0
57	MG	1A	3743	1/1	0.92	0.11	58,58,58,58	0
57	MG	2A	3130	1/1	0.92	0.25	63,63,63,63	0
57	MG	2A	3341	1/1	0.92	0.21	71,71,71,71	0
57	MG	1a	1874	1/1	0.92	0.19	72,72,72,72	0
57	MG	2a	1627	1/1	0.92	0.28	71,71,71,71	0
57	MG	1a	1664	1/1	0.92	0.28	54,54,54,54	0
57	MG	1A	4080	1/1	0.92	0.17	57,57,57,57	0
57	MG	1A	4087	1/1	0.92	0.10	59,59,59,59	0
57	MG	1A	3218	1/1	0.92	0.18	49,49,49,49	0
57	MG	1A	3384	1/1	0.92	0.23	44,44,44,44	0
57	MG	1A	3941	1/1	0.92	0.10	50,50,50,50	0
57	MG	1A	4106	1/1	0.92	0.26	67,67,67,67	0
57	MG	2a	1635	1/1	0.92	0.29	60,60,60,60	0
57	MG	1A	3454	1/1	0.92	0.15	67,67,67,67	0
57	MG	2A	3148	1/1	0.92	0.13	62,62,62,62	0
57	MG	2A	3354	1/1	0.92	0.25	71,71,71,71	0
57	MG	2A	3673	1/1	0.92	0.12	62,62,62,62	0
57	MG	2A	3674	1/1	0.92	0.13	63,63,63,63	0
57	MG	1A	3455	1/1	0.92	0.09	50,50,50,50	0
57	MG	2A	3152	1/1	0.92	0.15	59,59,59,59	0
57	MG	1A	3946	1/1	0.92	0.18	64,64,64,64	0
57	MG	2A	3678	1/1	0.92	0.11	54,54,54,54	0
57	MG	1A	3456	1/1	0.92	0.10	37,37,37,37	0
57	MG	1A	4124	1/1	0.92	0.12	37,37,37,37	0
57	MG	2A	3158	1/1	0.92	0.11	63,63,63,63	0
57	MG	1A	3385	1/1	0.92	0.12	53,53,53,53	0
57	MG	2A	3368	1/1	0.92	0.38	66,66,66,66	0
57	MG	1A	3757	1/1	0.92	0.12	46,46,46,46	0
57	MG	1a	1889	1/1	0.92	0.10	75,75,75,75	0
57	MG	2A	3691	1/1	0.92	0.10	64,64,64,64	0
57	MG	1A	3386	1/1	0.92	0.12	55,55,55,55	0
57	MG	2A	3374	1/1	0.92	0.29	64,64,64,64	0
57	MG	1A	3610	1/1	0.92	0.11	59,59,59,59	0
57	MG	1A	3611	1/1	0.92	0.06	44,44,44,44	0
57	MG	1A	3230	1/1	0.92	0.18	48,48,48,48	0
57	MG	2A	3381	1/1	0.92	0.09	53,53,53,53	0
57	MG	1A	3463	1/1	0.92	0.26	58,58,58,58	0
57	MG	2A	3386	1/1	0.92	0.28	56,56,56,56	0
57	MG	1A	3959	1/1	0.92	0.14	61,61,61,61	0
57	MG	1A	3772	1/1	0.92	0.15	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3773	1/1	0.92	0.17	61,61,61,61	0
57	MG	1B	218	1/1	0.92	0.12	62,62,62,62	0
57	MG	1A	3465	1/1	0.92	0.34	72,72,72,72	0
57	MG	1A	3964	1/1	0.92	0.15	33,33,33,33	0
57	MG	1a	1902	1/1	0.92	0.13	56,56,56,56	0
57	MG	1a	1699	1/1	0.92	0.18	56,56,56,56	0
57	MG	1B	221	1/1	0.92	0.14	54,54,54,54	0
57	MG	1B	222	1/1	0.92	0.07	57,57,57,57	0
57	MG	1A	3620	1/1	0.92	0.12	64,64,64,64	0
57	MG	1A	3095	1/1	0.92	0.25	39,39,39,39	0
57	MG	1a	1910	1/1	0.92	0.28	59,59,59,59	0
57	MG	2a	1682	1/1	0.92	0.20	63,63,63,63	0
57	MG	1A	3968	1/1	0.92	0.12	72,72,72,72	0
57	MG	1A	3625	1/1	0.92	0.12	42,42,42,42	0
57	MG	1A	3234	1/1	0.92	0.09	38,38,38,38	0
57	MG	2A	3417	1/1	0.92	0.09	58,58,58,58	0
57	MG	2A	3735	1/1	0.92	0.09	62,62,62,62	0
57	MG	1A	3328	1/1	0.92	0.09	53,53,53,53	0
57	MG	2A	3740	1/1	0.92	0.10	48,48,48,48	0
57	MG	2a	1690	1/1	0.92	0.26	65,65,65,65	0
57	MG	1A	3197	1/1	0.92	0.15	61,61,61,61	0
57	MG	1A	3634	1/1	0.92	0.13	45,45,45,45	0
57	MG	2A	3748	1/1	0.92	0.09	38,38,38,38	0
57	MG	1a	1726	1/1	0.92	0.11	60,60,60,60	0
57	MG	2A	3759	1/1	0.92	0.13	42,42,42,42	0
57	MG	2a	1700	1/1	0.92	0.19	71,71,71,71	0
57	MG	1B	232	1/1	0.92	0.10	57,57,57,57	0
57	MG	1A	3474	1/1	0.92	0.11	42,42,42,42	0
57	MG	2A	3200	1/1	0.92	0.13	66,66,66,66	0
57	MG	2A	3770	1/1	0.92	0.07	78,78,78,78	0
57	MG	1l	8001	1/1	0.92	0.10	84,84,84,84	0
57	MG	2A	3202	1/1	0.92	0.15	61,61,61,61	0
57	MG	2A	3443	1/1	0.92	0.14	62,62,62,62	0
57	MG	1A	3640	1/1	0.92	0.12	64,64,64,64	0
57	MG	1m	201	1/1	0.92	0.18	72,72,72,72	0
57	MG	1D	3002	1/1	0.92	0.12	45,45,45,45	0
57	MG	1A	3796	1/1	0.92	0.11	55,55,55,55	0
57	MG	1a	1740	1/1	0.92	0.22	55,55,55,55	0
57	MG	1A	3980	1/1	0.92	0.09	57,57,57,57	0
57	MG	1a	1746	1/1	0.92	0.13	61,61,61,61	0
57	MG	1w	101	1/1	0.92	0.30	65,65,65,65	0
57	MG	1A	3643	1/1	0.92	0.11	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1749	1/1	0.92	0.09	85,85,85,85	0
57	MG	2A	3216	1/1	0.92	0.31	44,44,44,44	0
57	MG	1a	1750	1/1	0.92	0.16	63,63,63,63	0
57	MG	1A	3646	1/1	0.92	0.12	21,21,21,21	0
57	MG	2A	3222	1/1	0.92	0.14	61,61,61,61	0
57	MG	2a	1735	1/1	0.92	0.14	66,66,66,66	0
57	MG	2a	1739	1/1	0.92	0.10	59,59,59,59	0
57	MG	1A	3271	1/1	0.92	0.14	35,35,35,35	0
57	MG	2A	3225	1/1	0.92	0.21	54,54,54,54	0
57	MG	1F	301	1/1	0.92	0.12	44,44,44,44	0
57	MG	1A	3163	1/1	0.92	0.09	55,55,55,55	0
57	MG	1A	3334	1/1	0.92	0.12	42,42,42,42	0
57	MG	2A	3492	1/1	0.92	0.11	51,51,51,51	0
57	MG	1x	3004	1/1	0.92	0.19	70,70,70,70	0
57	MG	1x	3005	1/1	0.92	0.28	68,68,68,68	0
57	MG	1A	3241	1/1	0.92	0.09	52,52,52,52	0
57	MG	1A	3817	1/1	0.92	0.08	55,55,55,55	0
57	MG	1A	3657	1/1	0.92	0.08	26,26,26,26	0
57	MG	2A	3502	1/1	0.92	0.23	74,74,74,74	0
57	MG	1a	1773	1/1	0.92	0.11	89,89,89,89	0
57	MG	1A	3664	1/1	0.92	0.09	52,52,52,52	0
57	MG	1A	3242	1/1	0.92	0.15	51,51,51,51	0
57	MG	1A	3243	1/1	0.92	0.07	29,29,29,29	0
57	MG	1O	3002	1/1	0.92	0.16	56,56,56,56	0
57	MG	1A	3338	1/1	0.92	0.10	44,44,44,44	0
57	MG	1A	3034	1/1	0.92	0.09	38,38,38,38	0
57	MG	1A	3200	1/1	0.92	0.16	53,53,53,53	0
57	MG	1Q	203	1/1	0.92	0.21	73,73,73,73	0
57	MG	2A	3827	1/1	0.92	0.09	58,58,58,58	0
57	MG	2A	3518	1/1	0.92	0.26	63,63,63,63	0
57	MG	1Q	204	1/1	0.92	0.12	61,61,61,61	0
57	MG	2A	3830	1/1	0.92	0.11	41,41,41,41	0
57	MG	1A	3832	1/1	0.92	0.08	59,59,59,59	0
57	MG	1A	3127	1/1	0.92	0.28	65,65,65,65	0
57	MG	1A	4001	1/1	0.92	0.11	49,49,49,49	0
57	MG	1A	3412	1/1	0.92	0.26	54,54,54,54	0
57	MG	1A	3076	1/1	0.92	0.09	32,32,32,32	0
57	MG	2A	3842	1/1	0.92	0.23	67,67,67,67	0
57	MG	1A	4005	1/1	0.92	0.09	63,63,63,63	0
57	MG	2a	1784	1/1	0.92	0.14	77,77,77,77	0
57	MG	2A	3530	1/1	0.92	0.19	57,57,57,57	0
57	MG	1A	4006	1/1	0.92	0.10	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3030	1/1	0.92	0.17	44,44,44,44	0
57	MG	1a	1807	1/1	0.92	0.07	71,71,71,71	0
57	MG	1A	3528	1/1	0.92	0.11	42,42,42,42	0
57	MG	2A	3853	1/1	0.92	0.10	57,57,57,57	0
57	MG	2A	3854	1/1	0.92	0.16	53,53,53,53	0
57	MG	2A	3035	1/1	0.92	0.17	56,56,56,56	0
57	MG	2A	3540	1/1	0.92	0.13	59,59,59,59	0
57	MG	2A	3861	1/1	0.92	0.12	50,50,50,50	0
57	MG	1A	4009	1/1	0.92	0.10	38,38,38,38	0
57	MG	2A	3261	1/1	0.92	0.22	59,59,59,59	0
57	MG	2A	3544	1/1	0.92	0.13	42,42,42,42	0
57	MG	1A	4011	1/1	0.92	0.12	58,58,58,58	0
57	MG	2A	3549	1/1	0.92	0.13	52,52,52,52	0
57	MG	1A	3690	1/1	0.92	0.14	62,62,62,62	0
57	MG	1Z	304	1/1	0.92	0.10	58,58,58,58	0
57	MG	2A	3041	1/1	0.92	0.22	67,67,67,67	0
57	MG	2A	3044	1/1	0.92	0.28	49,49,49,49	0
57	MG	1A	3175	1/1	0.92	0.26	49,49,49,49	0
57	MG	1A	3255	1/1	0.92	0.09	40,40,40,40	0
57	MG	1A	3847	1/1	0.92	0.07	36,36,36,36	0
57	MG	2A	3565	1/1	0.92	0.30	69,69,69,69	0
57	MG	2A	3566	1/1	0.92	0.20	51,51,51,51	0
57	MG	1A	3017	1/1	0.92	0.09	56,56,56,56	0
57	MG	2A	3569	1/1	0.92	0.19	68,68,68,68	0
57	MG	2A	3570	1/1	0.92	0.13	55,55,55,55	0
57	MG	2A	3571	1/1	0.92	0.13	77,77,77,77	0
57	MG	2B	3019	1/1	0.92	0.11	85,85,85,85	0
57	MG	2A	3050	1/1	0.92	0.13	59,59,59,59	0
57	MG	1A	3052	1/1	0.92	0.17	34,34,34,34	0
57	MG	1A	3423	1/1	0.92	0.28	54,54,54,54	0
57	MG	1A	4027	1/1	0.92	0.14	55,55,55,55	0
57	MG	1A	3851	1/1	0.92	0.11	46,46,46,46	0
57	MG	1A	3542	1/1	0.92	0.11	44,44,44,44	0
57	MG	1A	3360	1/1	0.92	0.10	58,58,58,58	0
57	MG	1A	3549	1/1	0.92	0.07	24,24,24,24	0
57	MG	1a	1828	1/1	0.92	0.11	69,69,69,69	0
57	MG	2A	3285	1/1	0.92	0.24	66,66,66,66	0
57	MG	1A	4034	1/1	0.92	0.09	34,34,34,34	0
57	MG	1A	3705	1/1	0.92	0.10	48,48,48,48	0
57	MG	2A	3289	1/1	0.92	0.26	81,81,81,81	0
57	MG	1A	3552	1/1	0.92	0.09	59,59,59,59	0
57	MG	1A	3362	1/1	0.92	0.12	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2Q	3002	1/1	0.92	0.26	61,61,61,61	0
57	MG	1A	3062	1/1	0.92	0.23	36,36,36,36	0
57	MG	2A	3431	1/1	0.93	0.13	57,57,57,57	0
57	MG	2a	1611	1/1	0.93	0.32	67,67,67,67	0
57	MG	1a	1671	1/1	0.93	0.10	57,57,57,57	0
57	MG	1D	3009	1/1	0.93	0.23	28,28,28,28	0
57	MG	2A	3048	1/1	0.93	0.21	77,77,77,77	0
57	MG	1A	3812	1/1	0.93	0.12	60,60,60,60	0
57	MG	2A	3697	1/1	0.93	0.06	53,53,53,53	0
57	MG	1a	1849	1/1	0.93	0.08	95,95,95,95	0
57	MG	1a	1850	1/1	0.93	0.12	76,76,76,76	0
57	MG	1A	3376	1/1	0.93	0.15	62,62,62,62	0
57	MG	1a	1853	1/1	0.93	0.12	63,63,63,63	0
57	MG	1A	3379	1/1	0.93	0.17	49,49,49,49	0
57	MG	1A	3277	1/1	0.93	0.36	43,43,43,43	0
57	MG	1A	3819	1/1	0.93	0.09	48,48,48,48	0
57	MG	2A	3711	1/1	0.93	0.07	59,59,59,59	0
57	MG	2A	3059	1/1	0.93	0.33	68,68,68,68	0
57	MG	1A	3820	1/1	0.93	0.15	63,63,63,63	0
57	MG	1A	3254	1/1	0.93	0.17	41,41,41,41	0
57	MG	1F	307	1/1	0.93	0.15	52,52,52,52	0
57	MG	1A	3164	1/1	0.93	0.21	44,44,44,44	0
57	MG	2A	3461	1/1	0.93	0.09	44,44,44,44	0
57	MG	1G	3002	1/1	0.93	0.22	62,62,62,62	0
57	MG	1A	3621	1/1	0.93	0.07	48,48,48,48	0
57	MG	1A	3070	1/1	0.93	0.18	60,60,60,60	0
57	MG	1A	3533	1/1	0.93	0.10	68,68,68,68	0
57	MG	1A	3228	1/1	0.93	0.09	48,48,48,48	0
57	MG	2A	3074	1/1	0.93	0.15	67,67,67,67	0
57	MG	1A	4049	1/1	0.93	0.07	42,42,42,42	0
57	MG	1A	3108	1/1	0.93	0.12	46,46,46,46	0
57	MG	1a	1693	1/1	0.93	0.13	58,58,58,58	0
57	MG	2A	3490	1/1	0.93	0.10	49,49,49,49	0
57	MG	2a	1641	1/1	0.93	0.23	62,62,62,62	0
57	MG	2A	3733	1/1	0.93	0.10	65,65,65,65	0
57	MG	2A	3491	1/1	0.93	0.14	58,58,58,58	0
57	MG	2A	3263	1/1	0.93	0.11	50,50,50,50	0
57	MG	2A	3264	1/1	0.93	0.10	60,60,60,60	0
57	MG	2A	3738	1/1	0.93	0.08	45,45,45,45	0
57	MG	1O	3003	1/1	0.93	0.08	71,71,71,71	0
57	MG	1A	3960	1/1	0.93	0.15	47,47,47,47	0
57	MG	2A	3746	1/1	0.93	0.06	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1698	1/1	0.93	0.19	66,66,66,66	0
57	MG	2a	1654	1/1	0.93	0.10	71,71,71,71	0
57	MG	2A	3499	1/1	0.93	0.17	61,61,61,61	0
57	MG	2a	1657	1/1	0.93	0.33	64,64,64,64	0
57	MG	2A	3750	1/1	0.93	0.07	48,48,48,48	0
57	MG	1P	201	1/1	0.93	0.15	34,34,34,34	0
57	MG	1A	3231	1/1	0.93	0.13	70,70,70,70	0
57	MG	2A	3761	1/1	0.93	0.09	41,41,41,41	0
57	MG	2A	3765	1/1	0.93	0.07	66,66,66,66	0
57	MG	1A	3170	1/1	0.93	0.13	59,59,59,59	0
57	MG	1A	3546	1/1	0.93	0.21	59,59,59,59	0
57	MG	2A	3088	1/1	0.93	0.15	51,51,51,51	0
57	MG	1A	3132	1/1	0.93	0.12	50,50,50,50	0
57	MG	1a	1709	1/1	0.93	0.07	61,61,61,61	0
57	MG	1R	201	1/1	0.93	0.09	42,42,42,42	0
57	MG	1A	3550	1/1	0.93	0.08	21,21,21,21	0
57	MG	1A	3340	1/1	0.93	0.10	53,53,53,53	0
57	MG	1A	3043	1/1	0.93	0.10	37,37,37,37	0
57	MG	1A	4061	1/1	0.93	0.09	47,47,47,47	0
57	MG	1A	3969	1/1	0.93	0.17	70,70,70,70	0
57	MG	1A	3650	1/1	0.93	0.10	25,25,25,25	0
57	MG	1A	3972	1/1	0.93	0.17	62,62,62,62	0
57	MG	1a	1728	1/1	0.93	0.12	52,52,52,52	0
57	MG	2A	3105	1/1	0.93	0.12	54,54,54,54	0
57	MG	1A	3296	1/1	0.93	0.20	52,52,52,52	0
57	MG	1W	201	1/1	0.93	0.17	44,44,44,44	0
57	MG	2A	3108	1/1	0.93	0.08	71,71,71,71	0
57	MG	1X	3001	1/1	0.93	0.05	54,54,54,54	0
57	MG	1A	3236	1/1	0.93	0.20	58,58,58,58	0
57	MG	1A	4069	1/1	0.93	0.09	53,53,53,53	0
57	MG	2A	3798	1/1	0.93	0.12	59,59,59,59	0
57	MG	1Z	301	1/1	0.93	0.22	43,43,43,43	0
57	MG	1a	1745	1/1	0.93	0.14	66,66,66,66	0
57	MG	1A	3350	1/1	0.93	0.14	57,57,57,57	0
57	MG	2A	3119	1/1	0.93	0.08	53,53,53,53	0
57	MG	1A	3351	1/1	0.93	0.15	45,45,45,45	0
57	MG	10	102	1/1	0.93	0.10	50,50,50,50	0
57	MG	2A	3124	1/1	0.93	0.11	45,45,45,45	0
57	MG	2A	3548	1/1	0.93	0.20	44,44,44,44	0
57	MG	1A	3264	1/1	0.93	0.13	49,49,49,49	0
57	MG	11	101	1/1	0.93	0.12	45,45,45,45	0
57	MG	2A	3133	1/1	0.93	0.19	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1753	1/1	0.93	0.09	71,71,71,71	0
57	MG	1A	3305	1/1	0.93	0.08	52,52,52,52	0
57	MG	2A	3310	1/1	0.93	0.12	65,65,65,65	0
57	MG	12	3001	1/1	0.93	0.11	52,52,52,52	0
57	MG	2a	1707	1/1	0.93	0.09	82,82,82,82	0
57	MG	1A	3307	1/1	0.93	0.13	48,48,48,48	0
57	MG	1A	3574	1/1	0.93	0.11	29,29,29,29	0
57	MG	2a	1710	1/1	0.93	0.08	83,83,83,83	0
57	MG	1A	3075	1/1	0.93	0.08	55,55,55,55	0
57	MG	1a	1762	1/1	0.93	0.09	77,77,77,77	0
57	MG	1A	3862	1/1	0.93	0.09	37,37,37,37	0
57	MG	2a	1714	1/1	0.93	0.10	58,58,58,58	0
57	MG	2A	3146	1/1	0.93	0.20	59,59,59,59	0
57	MG	2A	3318	1/1	0.93	0.25	70,70,70,70	0
57	MG	1a	1912	1/1	0.93	0.06	66,66,66,66	0
57	MG	1A	3864	1/1	0.93	0.06	31,31,31,31	0
57	MG	2A	3150	1/1	0.93	0.13	42,42,42,42	0
57	MG	1a	1772	1/1	0.93	0.08	85,85,85,85	0
57	MG	2A	3324	1/1	0.93	0.11	57,57,57,57	0
57	MG	2A	3577	1/1	0.93	0.12	60,60,60,60	0
57	MG	1A	4088	1/1	0.93	0.10	62,62,62,62	0
57	MG	1A	4089	1/1	0.93	0.30	38,38,38,38	0
57	MG	1a	1604	1/1	0.93	0.12	67,67,67,67	0
57	MG	1A	3054	1/1	0.93	0.28	65,65,65,65	0
57	MG	1a	1783	1/1	0.93	0.16	58,58,58,58	0
57	MG	2A	3586	1/1	0.93	0.11	54,54,54,54	0
57	MG	2A	3847	1/1	0.93	0.22	59,59,59,59	0
57	MG	1a	1784	1/1	0.93	0.09	67,67,67,67	0
57	MG	1a	1785	1/1	0.93	0.12	71,71,71,71	0
57	MG	1A	3585	1/1	0.93	0.08	26,26,26,26	0
57	MG	2A	3335	1/1	0.93	0.21	56,56,56,56	0
57	MG	1A	4093	1/1	0.93	0.13	73,73,73,73	0
57	MG	2A	3855	1/1	0.93	0.08	72,72,72,72	0
57	MG	2a	1750	1/1	0.93	0.11	83,83,83,83	0
57	MG	1A	3311	1/1	0.93	0.09	38,38,38,38	0
57	MG	2A	3857	1/1	0.93	0.22	48,48,48,48	0
57	MG	2A	3858	1/1	0.93	0.09	55,55,55,55	0
57	MG	2A	3859	1/1	0.93	0.10	56,56,56,56	0
57	MG	1A	3066	1/1	0.93	0.29	39,39,39,39	0
57	MG	1A	3768	1/1	0.93	0.08	60,60,60,60	0
57	MG	2a	1758	1/1	0.93	0.18	55,55,55,55	0
57	MG	1A	3770	1/1	0.93	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
57	MG	1A	3363	1/1	0.93	0.38	50,50,50,50	0
57	MG	1A	3992	1/1	0.93	0.13	45,45,45,45	0
57	MG	1A	3477	1/1	0.93	0.09	26,26,26,26	0
57	MG	1a	1622	1/1	0.93	0.17	57,57,57,57	0
57	MG	2A	3346	1/1	0.93	0.09	65,65,65,65	0
57	MG	1a	1800	1/1	0.93	0.13	67,67,67,67	0
57	MG	2a	1768	1/1	0.93	0.24	63,63,63,63	0
57	MG	1A	4127	1/1	0.93	0.14	33,33,33,33	0
57	MG	1A	3890	1/1	0.93	0.06	46,46,46,46	0
57	MG	1A	4148	1/1	0.93	0.15	37,37,37,37	0
57	MG	2A	3183	1/1	0.93	0.16	63,63,63,63	0
57	MG	1a	1806	1/1	0.93	0.10	80,80,80,80	0
57	MG	1B	201	1/1	0.93	0.19	56,56,56,56	0
57	MG	1A	3893	1/1	0.93	0.12	31,31,31,31	0
57	MG	2A	3357	1/1	0.93	0.27	49,49,49,49	0
57	MG	1A	3894	1/1	0.93	0.07	71,71,71,71	0
57	MG	2A	3620	1/1	0.93	0.11	34,34,34,34	0
57	MG	1A	3897	1/1	0.93	0.09	47,47,47,47	0
57	MG	1A	3182	1/1	0.93	0.23	34,34,34,34	0
57	MG	1A	3776	1/1	0.93	0.10	55,55,55,55	0
57	MG	1A	3778	1/1	0.93	0.15	43,43,43,43	0
57	MG	1A	3482	1/1	0.93	0.13	52,52,52,52	0
57	MG	1A	3078	1/1	0.93	0.17	40,40,40,40	0
57	MG	2A	3195	1/1	0.93	0.10	67,67,67,67	0
57	MG	1B	215	1/1	0.93	0.12	42,42,42,42	0
57	MG	1a	1819	1/1	0.93	0.22	62,62,62,62	0
57	MG	1A	3694	1/1	0.93	0.16	73,73,73,73	0
57	MG	2A	3372	1/1	0.93	0.30	71,71,71,71	0
57	MG	2A	3640	1/1	0.93	0.09	45,45,45,45	0
57	MG	1A	3068	1/1	0.93	0.11	46,46,46,46	0
57	MG	1A	3913	1/1	0.93	0.16	57,57,57,57	0
57	MG	2a	1797	1/1	0.93	0.21	67,67,67,67	0
57	MG	1a	1645	1/1	0.93	0.17	65,65,65,65	0
57	MG	1A	3160	1/1	0.93	0.09	42,42,42,42	0
57	MG	2A	3002	1/1	0.93	0.14	57,57,57,57	0
57	MG	2A	3383	1/1	0.93	0.21	56,56,56,56	0
57	MG	2A	3384	1/1	0.93	0.37	64,64,64,64	0
57	MG	2A	3005	1/1	0.93	0.17	64,64,64,64	0
57	MG	2A	3654	1/1	0.93	0.08	83,83,83,83	0
57	MG	1A	3600	1/1	0.93	0.08	67,67,67,67	0
57	MG	1A	3371	1/1	0.93	0.10	58,58,58,58	0
57	MG	1A	3103	1/1	0.93	0.14	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3502	1/1	0.93	0.17	54,54,54,54	0
57	MG	2A	3022	1/1	0.93	0.09	44,44,44,44	0
57	MG	2A	3023	1/1	0.93	0.32	56,56,56,56	0
57	MG	1A	3249	1/1	0.93	0.12	56,56,56,56	0
57	MG	2A	3396	1/1	0.93	0.09	61,61,61,61	0
57	MG	1A	4019	1/1	0.93	0.23	73,73,73,73	0
57	MG	1A	3711	1/1	0.93	0.06	37,37,37,37	0
57	MG	1A	4023	1/1	0.93	0.12	53,53,53,53	0
57	MG	1A	3216	1/1	0.93	0.23	55,55,55,55	0
57	MG	2A	3220	1/1	0.93	0.34	65,65,65,65	0
57	MG	1A	3252	1/1	0.93	0.35	36,36,36,36	0
57	MG	2A	3406	1/1	0.93	0.26	72,72,72,72	0
57	MG	1A	3431	1/1	0.93	0.28	37,37,37,37	0
57	MG	25	104	1/1	0.93	0.10	62,62,62,62	0
57	MG	1A	3807	1/1	0.93	0.10	63,63,63,63	0
57	MG	1A	3716	1/1	0.93	0.09	39,39,39,39	0
57	MG	2A	3415	1/1	0.93	0.16	69,69,69,69	0
57	MG	1D	3001	1/1	0.93	0.11	43,43,43,43	0
57	MG	1A	3810	1/1	0.93	0.09	40,40,40,40	0
57	MG	2A	3040	1/1	0.93	0.09	62,62,62,62	0
57	MG	1A	4033	1/1	0.93	0.08	48,48,48,48	0
57	MG	2A	3682	1/1	0.93	0.08	41,41,41,41	0
57	MG	2A	3422	1/1	0.93	0.19	56,56,56,56	0
57	MG	1a	1844	1/1	0.93	0.08	92,92,92,92	0
57	MG	1D	3008	1/1	0.93	0.18	47,47,47,47	0
57	MG	1A	3304	1/1	0.94	0.07	57,57,57,57	0
57	MG	1A	4068	1/1	0.94	0.16	36,36,36,36	0
57	MG	1A	3085	1/1	0.94	0.05	38,38,38,38	0
57	MG	2A	3375	1/1	0.94	0.16	62,62,62,62	0
57	MG	1A	3172	1/1	0.94	0.27	45,45,45,45	0
57	MG	1A	3799	1/1	0.94	0.05	14,14,14,14	0
57	MG	1A	3308	1/1	0.94	0.31	31,31,31,31	0
57	MG	2A	3653	1/1	0.94	0.22	58,58,58,58	0
57	MG	16	102	1/1	0.94	0.07	57,57,57,57	0
57	MG	23	102	1/1	0.94	0.11	68,68,68,68	0
57	MG	1x	3006	1/1	0.94	0.11	62,62,62,62	0
57	MG	1A	3685	1/1	0.94	0.09	23,23,23,23	0
57	MG	1A	3100	1/1	0.94	0.25	42,42,42,42	0
57	MG	1A	3460	1/1	0.94	0.21	34,34,34,34	0
57	MG	1A	3461	1/1	0.94	0.22	34,34,34,34	0
57	MG	1a	1603	1/1	0.94	0.20	58,58,58,58	0
57	MG	1A	4079	1/1	0.94	0.08	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3390	1/1	0.94	0.07	64,64,64,64	0
57	MG	2A	3392	1/1	0.94	0.34	73,73,73,73	0
57	MG	2a	1602	1/1	0.94	0.08	72,72,72,72	0
57	MG	1A	3142	1/1	0.94	0.19	55,55,55,55	0
57	MG	1a	1606	1/1	0.94	0.15	62,62,62,62	0
57	MG	1A	4084	1/1	0.94	0.11	35,35,35,35	0
57	MG	1A	4085	1/1	0.94	0.11	48,48,48,48	0
57	MG	1a	1804	1/1	0.94	0.07	53,53,53,53	0
57	MG	1A	3811	1/1	0.94	0.11	67,67,67,67	0
57	MG	2A	3399	1/1	0.94	0.28	69,69,69,69	0
57	MG	1A	3577	1/1	0.94	0.12	41,41,41,41	0
57	MG	1A	3813	1/1	0.94	0.07	58,58,58,58	0
57	MG	2A	3003	1/1	0.94	0.18	67,67,67,67	0
57	MG	1A	3464	1/1	0.94	0.11	70,70,70,70	0
57	MG	2A	3006	1/1	0.94	0.14	54,54,54,54	0
57	MG	2A	3215	1/1	0.94	0.15	46,46,46,46	0
57	MG	2A	3007	1/1	0.94	0.06	41,41,41,41	0
57	MG	2A	3681	1/1	0.94	0.17	59,59,59,59	0
57	MG	2A	3410	1/1	0.94	0.25	46,46,46,46	0
57	MG	2A	3411	1/1	0.94	0.29	55,55,55,55	0
57	MG	2A	3010	1/1	0.94	0.09	41,41,41,41	0
57	MG	1a	1809	1/1	0.94	0.11	69,69,69,69	0
57	MG	1A	3697	1/1	0.94	0.07	29,29,29,29	0
57	MG	2A	3015	1/1	0.94	0.10	58,58,58,58	0
57	MG	2A	3419	1/1	0.94	0.07	70,70,70,70	0
57	MG	1A	4092	1/1	0.94	0.30	42,42,42,42	0
57	MG	1a	1812	1/1	0.94	0.21	66,66,66,66	0
57	MG	2A	3696	1/1	0.94	0.15	80,80,80,80	0
57	MG	1A	3579	1/1	0.94	0.10	17,17,17,17	0
57	MG	1A	4095	1/1	0.94	0.27	44,44,44,44	0
57	MG	2A	3228	1/1	0.94	0.16	57,57,57,57	0
57	MG	1A	4098	1/1	0.94	0.19	52,52,52,52	0
57	MG	1a	1624	1/1	0.94	0.15	51,51,51,51	0
57	MG	1A	3580	1/1	0.94	0.09	28,28,28,28	0
57	MG	2A	3706	1/1	0.94	0.07	57,57,57,57	0
57	MG	1A	3037	1/1	0.94	0.18	52,52,52,52	0
57	MG	1A	4107	1/1	0.94	0.11	48,48,48,48	0
57	MG	2A	3033	1/1	0.94	0.10	32,32,32,32	0
57	MG	2A	3440	1/1	0.94	0.12	46,46,46,46	0
57	MG	1a	1820	1/1	0.94	0.16	70,70,70,70	0
57	MG	1A	3312	1/1	0.94	0.26	35,35,35,35	0
57	MG	1A	3586	1/1	0.94	0.14	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3238	1/1	0.94	0.20	69,69,69,69	0
57	MG	1A	3825	1/1	0.94	0.09	68,68,68,68	0
57	MG	1A	4113	1/1	0.94	0.09	29,29,29,29	0
57	MG	1A	3404	1/1	0.94	0.16	51,51,51,51	0
57	MG	1A	3707	1/1	0.94	0.19	61,61,61,61	0
57	MG	2a	1651	1/1	0.94	0.11	61,61,61,61	0
57	MG	1A	3708	1/1	0.94	0.13	59,59,59,59	0
57	MG	2A	3723	1/1	0.94	0.11	60,60,60,60	0
57	MG	2A	3244	1/1	0.94	0.07	57,57,57,57	0
57	MG	1A	3408	1/1	0.94	0.28	39,39,39,39	0
57	MG	2A	3726	1/1	0.94	0.08	71,71,71,71	0
57	MG	1A	4132	1/1	0.94	0.41	37,37,37,37	0
57	MG	2A	3462	1/1	0.94	0.09	47,47,47,47	0
57	MG	2A	3463	1/1	0.94	0.10	44,44,44,44	0
57	MG	1A	4135	1/1	0.94	0.23	44,44,44,44	0
57	MG	1A	4145	1/1	0.94	0.14	47,47,47,47	0
57	MG	1A	3710	1/1	0.94	0.12	63,63,63,63	0
57	MG	2A	3470	1/1	0.94	0.11	41,41,41,41	0
57	MG	1A	4149	1/1	0.94	0.20	48,48,48,48	0
57	MG	2A	3473	1/1	0.94	0.08	37,37,37,37	0
57	MG	2A	3475	1/1	0.94	0.08	62,62,62,62	0
57	MG	2A	3476	1/1	0.94	0.09	35,35,35,35	0
57	MG	1A	3592	1/1	0.94	0.08	48,48,48,48	0
57	MG	1a	1835	1/1	0.94	0.07	66,66,66,66	0
57	MG	1A	3067	1/1	0.94	0.11	63,63,63,63	0
57	MG	1a	1648	1/1	0.94	0.13	58,58,58,58	0
57	MG	2A	3751	1/1	0.94	0.07	47,47,47,47	0
57	MG	1A	3145	1/1	0.94	0.05	37,37,37,37	0
57	MG	1A	3146	1/1	0.94	0.09	60,60,60,60	0
57	MG	1A	3715	1/1	0.94	0.08	53,53,53,53	0
57	MG	2A	3763	1/1	0.94	0.09	42,42,42,42	0
57	MG	1A	3842	1/1	0.94	0.11	30,30,30,30	0
57	MG	1A	3184	1/1	0.94	0.10	47,47,47,47	0
57	MG	1B	210	1/1	0.94	0.19	47,47,47,47	0
57	MG	1A	3481	1/1	0.94	0.19	34,34,34,34	0
57	MG	1A	3320	1/1	0.94	0.28	54,54,54,54	0
57	MG	1B	213	1/1	0.94	0.06	46,46,46,46	0
57	MG	1A	3486	1/1	0.94	0.07	53,53,53,53	0
57	MG	1a	1663	1/1	0.94	0.24	50,50,50,50	0
57	MG	1A	3490	1/1	0.94	0.10	61,61,61,61	0
57	MG	1A	3993	1/1	0.94	0.08	42,42,42,42	0
57	MG	2A	3781	1/1	0.94	0.18	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3072	1/1	0.94	0.12	53,53,53,53	0
57	MG	1A	3492	1/1	0.94	0.10	26,26,26,26	0
57	MG	2A	3784	1/1	0.94	0.10	56,56,56,56	0
57	MG	1A	3602	1/1	0.94	0.06	15,15,15,15	0
57	MG	2a	1694	1/1	0.94	0.10	90,90,90,90	0
57	MG	2a	1695	1/1	0.94	0.11	69,69,69,69	0
57	MG	1A	3120	1/1	0.94	0.18	42,42,42,42	0
57	MG	1A	3016	1/1	0.94	0.09	38,38,38,38	0
57	MG	1A	3420	1/1	0.94	0.22	39,39,39,39	0
57	MG	1A	3727	1/1	0.94	0.07	16,16,16,16	0
57	MG	1A	3370	1/1	0.94	0.14	51,51,51,51	0
57	MG	1A	3193	1/1	0.94	0.09	50,50,50,50	0
57	MG	2A	3084	1/1	0.94	0.06	41,41,41,41	0
57	MG	1A	3424	1/1	0.94	0.09	59,59,59,59	0
57	MG	1A	3731	1/1	0.94	0.07	20,20,20,20	0
57	MG	1a	1864	1/1	0.94	0.09	48,48,48,48	0
57	MG	2A	3525	1/1	0.94	0.12	65,65,65,65	0
57	MG	2A	3286	1/1	0.94	0.16	63,63,63,63	0
57	MG	1A	3732	1/1	0.94	0.08	27,27,27,27	0
57	MG	1A	3503	1/1	0.94	0.08	54,54,54,54	0
57	MG	1A	3224	1/1	0.94	0.28	29,29,29,29	0
57	MG	2a	1715	1/1	0.94	0.20	60,60,60,60	0
57	MG	2A	3804	1/1	0.94	0.13	75,75,75,75	0
57	MG	1A	3427	1/1	0.94	0.18	61,61,61,61	0
57	MG	1A	3514	1/1	0.94	0.12	57,57,57,57	0
57	MG	1A	3282	1/1	0.94	0.11	67,67,67,67	0
57	MG	2a	1723	1/1	0.94	0.12	52,52,52,52	0
57	MG	2a	1724	1/1	0.94	0.07	84,84,84,84	0
57	MG	2A	3095	1/1	0.94	0.11	55,55,55,55	0
57	MG	1A	3286	1/1	0.94	0.18	66,66,66,66	0
57	MG	1A	4015	1/1	0.94	0.10	56,56,56,56	0
57	MG	2A	3813	1/1	0.94	0.12	72,72,72,72	0
57	MG	1A	3123	1/1	0.94	0.10	41,41,41,41	0
57	MG	1A	3892	1/1	0.94	0.10	28,28,28,28	0
57	MG	1a	1690	1/1	0.94	0.27	60,60,60,60	0
57	MG	2A	3546	1/1	0.94	0.20	60,60,60,60	0
57	MG	2A	3547	1/1	0.94	0.07	40,40,40,40	0
57	MG	2a	1738	1/1	0.94	0.11	60,60,60,60	0
57	MG	1E	301	1/1	0.94	0.23	42,42,42,42	0
57	MG	1E	302	1/1	0.94	0.21	36,36,36,36	0
57	MG	2A	3552	1/1	0.94	0.10	43,43,43,43	0
57	MG	2a	1743	1/1	0.94	0.10	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3523	1/1	0.94	0.13	60,60,60,60	0
57	MG	1A	3288	1/1	0.94	0.11	65,65,65,65	0
57	MG	1A	4022	1/1	0.94	0.16	63,63,63,63	0
57	MG	1A	3896	1/1	0.94	0.13	50,50,50,50	0
57	MG	2A	3558	1/1	0.94	0.14	39,39,39,39	0
57	MG	1A	3048	1/1	0.94	0.17	54,54,54,54	0
57	MG	2A	3560	1/1	0.94	0.07	63,63,63,63	0
57	MG	2A	3833	1/1	0.94	0.10	70,70,70,70	0
57	MG	2A	3112	1/1	0.94	0.17	57,57,57,57	0
57	MG	2A	3113	1/1	0.94	0.21	69,69,69,69	0
57	MG	2A	3837	1/1	0.94	0.07	58,58,58,58	0
57	MG	2A	3563	1/1	0.94	0.14	46,46,46,46	0
57	MG	1A	3898	1/1	0.94	0.08	47,47,47,47	0
57	MG	1A	3380	1/1	0.94	0.21	37,37,37,37	0
57	MG	2A	3567	1/1	0.94	0.11	68,68,68,68	0
57	MG	1A	3530	1/1	0.94	0.06	17,17,17,17	0
57	MG	1A	4030	1/1	0.94	0.19	59,59,59,59	0
57	MG	1a	1706	1/1	0.94	0.22	69,69,69,69	0
57	MG	1a	1707	1/1	0.94	0.22	67,67,67,67	0
57	MG	1A	3752	1/1	0.94	0.09	32,32,32,32	0
57	MG	1A	3437	1/1	0.94	0.24	49,49,49,49	0
57	MG	2A	3852	1/1	0.94	0.23	50,50,50,50	0
57	MG	2a	1770	1/1	0.94	0.17	74,74,74,74	0
57	MG	1a	1891	1/1	0.94	0.09	69,69,69,69	0
57	MG	1a	1712	1/1	0.94	0.12	48,48,48,48	0
57	MG	1A	3755	1/1	0.94	0.06	28,28,28,28	0
57	MG	1A	3196	1/1	0.94	0.16	56,56,56,56	0
57	MG	2a	1776	1/1	0.94	0.22	67,67,67,67	0
57	MG	1A	3641	1/1	0.94	0.13	48,48,48,48	0
57	MG	1a	1717	1/1	0.94	0.13	65,65,65,65	0
57	MG	1a	1719	1/1	0.94	0.12	55,55,55,55	0
57	MG	1N	204	1/1	0.94	0.36	53,53,53,53	0
57	MG	2A	3584	1/1	0.94	0.09	43,43,43,43	0
57	MG	1A	3128	1/1	0.94	0.09	45,45,45,45	0
57	MG	1A	3534	1/1	0.94	0.07	39,39,39,39	0
57	MG	1A	3647	1/1	0.94	0.08	35,35,35,35	0
57	MG	1A	4039	1/1	0.94	0.17	40,40,40,40	0
57	MG	1A	3535	1/1	0.94	0.07	32,32,32,32	0
57	MG	2a	1787	1/1	0.94	0.19	67,67,67,67	0
57	MG	1A	3018	1/1	0.94	0.18	76,76,76,76	0
57	MG	1a	1733	1/1	0.94	0.13	70,70,70,70	0
57	MG	1A	3922	1/1	0.94	0.10	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3769	1/1	0.94	0.07	58,58,58,58	0
57	MG	1A	3925	1/1	0.94	0.08	68,68,68,68	0
57	MG	2B	3010	1/1	0.94	0.07	70,70,70,70	0
57	MG	1A	3294	1/1	0.94	0.23	46,46,46,46	0
57	MG	2A	3156	1/1	0.94	0.14	45,45,45,45	0
57	MG	1R	202	1/1	0.94	0.55	45,45,45,45	0
57	MG	1A	3130	1/1	0.94	0.11	43,43,43,43	0
57	MG	1a	1914	1/1	0.94	0.10	74,74,74,74	0
57	MG	2A	3345	1/1	0.94	0.22	64,64,64,64	0
57	MG	1A	4048	1/1	0.94	0.08	51,51,51,51	0
57	MG	1A	3339	1/1	0.94	0.08	52,52,52,52	0
57	MG	1A	3655	1/1	0.94	0.06	50,50,50,50	0
57	MG	2A	3164	1/1	0.94	0.13	41,41,41,41	0
57	MG	1T	201	1/1	0.94	0.20	51,51,51,51	0
57	MG	2D	303	1/1	0.94	0.51	51,51,51,51	0
57	MG	2A	3612	1/1	0.94	0.10	56,56,56,56	0
57	MG	1A	3934	1/1	0.94	0.10	57,57,57,57	0
57	MG	1A	3656	1/1	0.94	0.09	33,33,33,33	0
57	MG	1A	3112	1/1	0.94	0.23	34,34,34,34	0
57	MG	1A	3938	1/1	0.94	0.11	52,52,52,52	0
57	MG	2A	3355	1/1	0.94	0.18	43,43,43,43	0
57	MG	2A	3356	1/1	0.94	0.20	58,58,58,58	0
57	MG	1A	3659	1/1	0.94	0.09	61,61,61,61	0
57	MG	1A	3547	1/1	0.94	0.10	38,38,38,38	0
57	MG	2F	302	1/1	0.94	0.12	59,59,59,59	0
57	MG	1A	3342	1/1	0.94	0.27	49,49,49,49	0
57	MG	2A	3360	1/1	0.94	0.23	47,47,47,47	0
57	MG	2N	8001	1/1	0.94	0.12	63,63,63,63	0
57	MG	2A	3628	1/1	0.94	0.10	55,55,55,55	0
57	MG	1A	3942	1/1	0.94	0.08	64,64,64,64	0
57	MG	2Q	3001	1/1	0.94	0.08	66,66,66,66	0
57	MG	1a	1766	1/1	0.94	0.08	54,54,54,54	0
57	MG	1A	3167	1/1	0.94	0.09	46,46,46,46	0
57	MG	1A	3671	1/1	0.94	0.06	41,41,41,41	0
57	MG	1A	3672	1/1	0.94	0.09	39,39,39,39	0
57	MG	2A	3367	1/1	0.94	0.13	53,53,53,53	0
57	MG	2A	3637	1/1	0.94	0.08	47,47,47,47	0
57	MG	2T	3004	1/1	0.94	0.13	67,67,67,67	0
57	MG	1A	3204	1/1	0.94	0.07	61,61,61,61	0
57	MG	1A	3347	1/1	0.94	0.36	40,40,40,40	0
57	MG	1a	1778	1/1	0.94	0.07	60,60,60,60	0
57	MG	2V	201	1/1	0.94	0.19	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	K	2A	3849	1/1	0.94	0.11	72,72,72,72	0
59	ZN	24	501	1/1	0.94	0.11	125,125,125,125	0
57	MG	1A	3485	1/1	0.95	0.33	36,36,36,36	0
57	MG	2T	3003	1/1	0.95	0.20	57,57,57,57	0
57	MG	2A	3174	1/1	0.95	0.09	57,57,57,57	0
57	MG	2A	3175	1/1	0.95	0.06	64,64,64,64	0
57	MG	2A	3176	1/1	0.95	0.15	66,66,66,66	0
57	MG	2A	3373	1/1	0.95	0.30	63,63,63,63	0
57	MG	2U	204	1/1	0.95	0.10	56,56,56,56	0
57	MG	1A	4067	1/1	0.95	0.07	60,60,60,60	0
57	MG	1A	3188	1/1	0.95	0.28	33,33,33,33	0
57	MG	2A	3643	1/1	0.95	0.13	64,64,64,64	0
57	MG	1a	1747	1/1	0.95	0.10	67,67,67,67	0
57	MG	2A	3180	1/1	0.95	0.27	59,59,59,59	0
57	MG	2X	3003	1/1	0.95	0.09	60,60,60,60	0
57	MG	1A	3487	1/1	0.95	0.14	47,47,47,47	0
57	MG	20	8001	1/1	0.95	0.10	59,59,59,59	0
57	MG	1A	3488	1/1	0.95	0.13	38,38,38,38	0
57	MG	2A	3382	1/1	0.95	0.27	49,49,49,49	0
57	MG	1A	3489	1/1	0.95	0.12	44,44,44,44	0
57	MG	1A	4072	1/1	0.95	0.09	47,47,47,47	0
57	MG	1a	1752	1/1	0.95	0.06	55,55,55,55	0
57	MG	1A	3706	1/1	0.95	0.16	47,47,47,47	0
57	MG	1W	202	1/1	0.95	0.13	51,51,51,51	0
57	MG	1A	3422	1/1	0.95	0.09	50,50,50,50	0
57	MG	1X	3004	1/1	0.95	0.15	41,41,41,41	0
57	MG	1A	3491	1/1	0.95	0.11	45,45,45,45	0
57	MG	1w	108	1/1	0.95	0.15	68,68,68,68	0
57	MG	1A	3821	1/1	0.95	0.07	36,36,36,36	0
57	MG	1A	3079	1/1	0.95	0.06	28,28,28,28	0
57	MG	1Z	302	1/1	0.95	0.12	60,60,60,60	0
57	MG	1A	3298	1/1	0.95	0.09	57,57,57,57	0
57	MG	1A	3377	1/1	0.95	0.18	59,59,59,59	0
57	MG	1A	4081	1/1	0.95	0.07	46,46,46,46	0
57	MG	10	103	1/1	0.95	0.17	63,63,63,63	0
57	MG	1A	4082	1/1	0.95	0.12	14,14,14,14	0
57	MG	1A	3065	1/1	0.95	0.12	39,39,39,39	0
57	MG	1a	1776	1/1	0.95	0.07	74,74,74,74	0
57	MG	1a	1777	1/1	0.95	0.07	77,77,77,77	0
57	MG	1A	3213	1/1	0.95	0.14	45,45,45,45	0
57	MG	1A	3214	1/1	0.95	0.11	46,46,46,46	0
57	MG	2A	3408	1/1	0.95	0.25	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3306	1/1	0.95	0.08	49,49,49,49	0
57	MG	1A	3272	1/1	0.95	0.23	53,53,53,53	0
57	MG	1A	3432	1/1	0.95	0.23	43,43,43,43	0
57	MG	2A	3210	1/1	0.95	0.11	56,56,56,56	0
57	MG	2A	3680	1/1	0.95	0.08	69,69,69,69	0
57	MG	1A	3509	1/1	0.95	0.08	57,57,57,57	0
57	MG	1A	3836	1/1	0.95	0.06	71,71,71,71	0
57	MG	18	102	1/1	0.95	0.08	63,63,63,63	0
57	MG	18	103	1/1	0.95	0.16	50,50,50,50	0
57	MG	1A	3510	1/1	0.95	0.07	30,30,30,30	0
57	MG	1A	3720	1/1	0.95	0.06	51,51,51,51	0
57	MG	1a	1601	1/1	0.95	0.07	53,53,53,53	0
57	MG	1A	4097	1/1	0.95	0.13	68,68,68,68	0
57	MG	1A	3840	1/1	0.95	0.09	62,62,62,62	0
57	MG	2A	3221	1/1	0.95	0.13	76,76,76,76	0
57	MG	2A	3694	1/1	0.95	0.07	58,58,58,58	0
57	MG	2A	3695	1/1	0.95	0.17	60,60,60,60	0
57	MG	1a	1798	1/1	0.95	0.08	63,63,63,63	0
57	MG	1A	4102	1/1	0.95	0.33	39,39,39,39	0
57	MG	2A	3434	1/1	0.95	0.07	49,49,49,49	0
57	MG	2A	3699	1/1	0.95	0.20	73,73,73,73	0
57	MG	1A	3609	1/1	0.95	0.11	49,49,49,49	0
57	MG	1A	3343	1/1	0.95	0.31	57,57,57,57	0
57	MG	2A	3703	1/1	0.95	0.06	79,79,79,79	0
57	MG	2A	3438	1/1	0.95	0.10	36,36,36,36	0
57	MG	1A	3124	1/1	0.95	0.14	37,37,37,37	0
57	MG	1A	3436	1/1	0.95	0.15	55,55,55,55	0
57	MG	2A	3707	1/1	0.95	0.12	69,69,69,69	0
57	MG	1A	3036	1/1	0.95	0.07	34,34,34,34	0
57	MG	2a	1645	1/1	0.95	0.09	61,61,61,61	0
57	MG	1A	3520	1/1	0.95	0.06	19,19,19,19	0
57	MG	1A	4111	1/1	0.95	0.19	38,38,38,38	0
57	MG	1a	1615	1/1	0.95	0.06	50,50,50,50	0
57	MG	2A	3448	1/1	0.95	0.14	55,55,55,55	0
57	MG	1A	3985	1/1	0.95	0.10	59,59,59,59	0
57	MG	1A	4114	1/1	0.95	0.23	46,46,46,46	0
57	MG	2A	3452	1/1	0.95	0.10	62,62,62,62	0
57	MG	1A	3440	1/1	0.95	0.09	48,48,48,48	0
57	MG	1A	4117	1/1	0.95	0.13	39,39,39,39	0
57	MG	1A	4119	1/1	0.95	0.22	39,39,39,39	0
57	MG	1A	3060	1/1	0.95	0.13	54,54,54,54	0
57	MG	1A	3622	1/1	0.95	0.10	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	4129	1/1	0.95	0.18	35,35,35,35	0
57	MG	1A	3444	1/1	0.95	0.12	53,53,53,53	0
57	MG	1A	3527	1/1	0.95	0.10	56,56,56,56	0
57	MG	1a	1628	1/1	0.95	0.12	54,54,54,54	0
57	MG	2A	3466	1/1	0.95	0.11	39,39,39,39	0
57	MG	2A	3042	1/1	0.95	0.12	58,58,58,58	0
57	MG	2A	3730	1/1	0.95	0.07	50,50,50,50	0
57	MG	2A	3043	1/1	0.95	0.15	34,34,34,34	0
57	MG	1A	4133	1/1	0.95	0.09	39,39,39,39	0
57	MG	1A	3348	1/1	0.95	0.12	50,50,50,50	0
57	MG	1A	4137	1/1	0.95	0.29	40,40,40,40	0
57	MG	2A	3474	1/1	0.95	0.17	64,64,64,64	0
57	MG	1A	4140	1/1	0.95	0.26	38,38,38,38	0
57	MG	1A	4141	1/1	0.95	0.48	30,30,30,30	0
57	MG	2A	3739	1/1	0.95	0.13	73,73,73,73	0
57	MG	2A	3477	1/1	0.95	0.11	61,61,61,61	0
57	MG	2A	3479	1/1	0.95	0.09	48,48,48,48	0
57	MG	1A	3856	1/1	0.95	0.07	13,13,13,13	0
57	MG	1A	3733	1/1	0.95	0.11	40,40,40,40	0
57	MG	2A	3482	1/1	0.95	0.07	41,41,41,41	0
57	MG	2A	3749	1/1	0.95	0.06	54,54,54,54	0
57	MG	1A	3251	1/1	0.95	0.08	40,40,40,40	0
57	MG	1A	3391	1/1	0.95	0.14	49,49,49,49	0
57	MG	1a	1640	1/1	0.95	0.14	50,50,50,50	0
57	MG	2A	3489	1/1	0.95	0.07	41,41,41,41	0
57	MG	2A	3055	1/1	0.95	0.08	46,46,46,46	0
57	MG	2A	3762	1/1	0.95	0.08	56,56,56,56	0
57	MG	2A	3258	1/1	0.95	0.12	67,67,67,67	0
57	MG	1A	3392	1/1	0.95	0.19	34,34,34,34	0
57	MG	1A	3738	1/1	0.95	0.08	59,59,59,59	0
57	MG	1a	1643	1/1	0.95	0.10	54,54,54,54	0
57	MG	1B	204	1/1	0.95	0.17	70,70,70,70	0
57	MG	1A	3173	1/1	0.95	0.07	44,44,44,44	0
57	MG	2A	3772	1/1	0.95	0.08	30,30,30,30	0
57	MG	1A	3639	1/1	0.95	0.06	44,44,44,44	0
57	MG	2A	3774	1/1	0.95	0.06	65,65,65,65	0
57	MG	2A	3775	1/1	0.95	0.11	47,47,47,47	0
57	MG	1a	1836	1/1	0.95	0.20	62,62,62,62	0
57	MG	2a	1699	1/1	0.95	0.08	68,68,68,68	0
57	MG	1A	3278	1/1	0.95	0.21	35,35,35,35	0
57	MG	1A	3315	1/1	0.95	0.15	61,61,61,61	0
57	MG	1A	3353	1/1	0.95	0.10	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	4004	1/1	0.95	0.13	50,50,50,50	0
57	MG	1A	3644	1/1	0.95	0.12	45,45,45,45	0
57	MG	2A	3510	1/1	0.95	0.12	55,55,55,55	0
57	MG	1a	1652	1/1	0.95	0.10	70,70,70,70	0
57	MG	1A	3536	1/1	0.95	0.05	29,29,29,29	0
57	MG	2A	3787	1/1	0.95	0.10	63,63,63,63	0
57	MG	2A	3073	1/1	0.95	0.09	58,58,58,58	0
57	MG	1A	4007	1/1	0.95	0.11	43,43,43,43	0
57	MG	1A	3889	1/1	0.95	0.05	29,29,29,29	0
57	MG	2A	3076	1/1	0.95	0.10	52,52,52,52	0
57	MG	1B	217	1/1	0.95	0.07	37,37,37,37	0
57	MG	2a	1716	1/1	0.95	0.08	60,60,60,60	0
57	MG	2A	3280	1/1	0.95	0.14	50,50,50,50	0
57	MG	1A	3147	1/1	0.95	0.09	43,43,43,43	0
57	MG	2a	1720	1/1	0.95	0.09	75,75,75,75	0
57	MG	1a	1658	1/1	0.95	0.11	52,52,52,52	0
57	MG	1A	3891	1/1	0.95	0.06	46,46,46,46	0
57	MG	1A	3226	1/1	0.95	0.37	39,39,39,39	0
57	MG	1A	3541	1/1	0.95	0.09	42,42,42,42	0
57	MG	1A	3651	1/1	0.95	0.11	47,47,47,47	0
57	MG	2A	3529	1/1	0.95	0.08	53,53,53,53	0
57	MG	1A	3090	1/1	0.95	0.10	39,39,39,39	0
57	MG	2A	3532	1/1	0.95	0.11	41,41,41,41	0
57	MG	1A	3358	1/1	0.95	0.19	50,50,50,50	0
57	MG	1A	3759	1/1	0.95	0.08	41,41,41,41	0
57	MG	1A	4018	1/1	0.95	0.10	48,48,48,48	0
57	MG	1A	3229	1/1	0.95	0.07	50,50,50,50	0
57	MG	2A	3537	1/1	0.95	0.08	41,41,41,41	0
57	MG	2a	1737	1/1	0.95	0.19	61,61,61,61	0
57	MG	1a	1670	1/1	0.95	0.40	64,64,64,64	0
57	MG	2A	3294	1/1	0.95	0.07	53,53,53,53	0
57	MG	2a	1740	1/1	0.95	0.13	52,52,52,52	0
57	MG	2A	3295	1/1	0.95	0.06	53,53,53,53	0
57	MG	2A	3542	1/1	0.95	0.11	45,45,45,45	0
57	MG	1A	3201	1/1	0.95	0.12	53,53,53,53	0
57	MG	2A	3092	1/1	0.95	0.11	34,34,34,34	0
57	MG	2a	1745	1/1	0.95	0.17	64,64,64,64	0
57	MG	1a	1672	1/1	0.95	0.27	62,62,62,62	0
57	MG	1A	3150	1/1	0.95	0.27	42,42,42,42	0
57	MG	2A	3821	1/1	0.95	0.07	54,54,54,54	0
57	MG	1A	3405	1/1	0.95	0.15	29,29,29,29	0
57	MG	2A	3096	1/1	0.95	0.16	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3406	1/1	0.95	0.27	37,37,37,37	0
57	MG	2A	3551	1/1	0.95	0.17	45,45,45,45	0
57	MG	1A	3767	1/1	0.95	0.05	33,33,33,33	0
57	MG	2a	1754	1/1	0.95	0.13	70,70,70,70	0
57	MG	2A	3100	1/1	0.95	0.12	51,51,51,51	0
57	MG	2A	3554	1/1	0.95	0.09	58,58,58,58	0
57	MG	1A	3910	1/1	0.95	0.13	62,62,62,62	0
57	MG	1a	1679	1/1	0.95	0.25	65,65,65,65	0
57	MG	2A	3831	1/1	0.95	0.06	47,47,47,47	0
57	MG	1A	3911	1/1	0.95	0.06	48,48,48,48	0
57	MG	1A	3662	1/1	0.95	0.07	22,22,22,22	0
57	MG	2a	1763	1/1	0.95	0.08	67,67,67,67	0
57	MG	1A	3462	1/1	0.95	0.19	39,39,39,39	0
57	MG	1A	3407	1/1	0.95	0.27	41,41,41,41	0
57	MG	1A	3556	1/1	0.95	0.07	27,27,27,27	0
57	MG	1A	3558	1/1	0.95	0.10	26,26,26,26	0
57	MG	1A	3919	1/1	0.95	0.06	27,27,27,27	0
57	MG	2A	3564	1/1	0.95	0.07	62,62,62,62	0
57	MG	1E	303	1/1	0.95	0.15	29,29,29,29	0
57	MG	1A	3151	1/1	0.95	0.09	51,51,51,51	0
57	MG	1A	3921	1/1	0.95	0.13	57,57,57,57	0
57	MG	1A	3116	1/1	0.95	0.22	37,37,37,37	0
57	MG	1A	3923	1/1	0.95	0.08	62,62,62,62	0
57	MG	2a	1775	1/1	0.95	0.10	69,69,69,69	0
57	MG	1A	3467	1/1	0.95	0.07	52,52,52,52	0
57	MG	1A	3021	1/1	0.95	0.21	34,34,34,34	0
57	MG	2A	3118	1/1	0.95	0.22	71,71,71,71	0
57	MG	1F	305	1/1	0.95	0.14	47,47,47,47	0
57	MG	2A	3323	1/1	0.95	0.07	63,63,63,63	0
57	MG	2A	3120	1/1	0.95	0.09	47,47,47,47	0
57	MG	1A	3569	1/1	0.95	0.09	57,57,57,57	0
57	MG	1a	1696	1/1	0.95	0.14	72,72,72,72	0
57	MG	2A	3578	1/1	0.95	0.06	36,36,36,36	0
57	MG	1A	3327	1/1	0.95	0.26	46,46,46,46	0
57	MG	2A	3125	1/1	0.95	0.16	54,54,54,54	0
57	MG	1A	3470	1/1	0.95	0.12	33,33,33,33	0
57	MG	2A	3330	1/1	0.95	0.08	48,48,48,48	0
57	MG	2A	3127	1/1	0.95	0.24	50,50,50,50	0
57	MG	2A	3129	1/1	0.95	0.18	40,40,40,40	0
57	MG	1G	3001	1/1	0.95	0.10	43,43,43,43	0
57	MG	2A	3132	1/1	0.95	0.19	45,45,45,45	0
57	MG	1A	3930	1/1	0.95	0.11	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3682	1/1	0.95	0.08	51,51,51,51	0
57	MG	1a	1703	1/1	0.95	0.07	60,60,60,60	0
57	MG	1G	3004	1/1	0.95	0.07	46,46,46,46	0
57	MG	1A	3683	1/1	0.95	0.06	52,52,52,52	0
57	MG	1A	3684	1/1	0.95	0.09	49,49,49,49	0
57	MG	2A	3595	1/1	0.95	0.07	44,44,44,44	0
57	MG	1a	1708	1/1	0.95	0.28	50,50,50,50	0
57	MG	1A	3104	1/1	0.95	0.12	44,44,44,44	0
57	MG	1A	3794	1/1	0.95	0.10	42,42,42,42	0
57	MG	1N	206	1/1	0.95	0.11	50,50,50,50	0
57	MG	1N	207	1/1	0.95	0.17	33,33,33,33	0
57	MG	1A	3414	1/1	0.95	0.08	53,53,53,53	0
57	MG	1A	3329	1/1	0.95	0.09	59,59,59,59	0
57	MG	1A	3475	1/1	0.95	0.21	39,39,39,39	0
57	MG	1A	3014	1/1	0.95	0.04	34,34,34,34	0
57	MG	1a	1720	1/1	0.95	0.10	61,61,61,61	0
57	MG	2D	301	1/1	0.95	0.28	53,53,53,53	0
57	MG	2I	201	1/1	0.95	0.09	72,72,72,72	0
57	MG	1a	1721	1/1	0.95	0.06	31,31,31,31	0
57	MG	2A	3607	1/1	0.95	0.06	68,68,68,68	0
57	MG	1A	3943	1/1	0.95	0.14	68,68,68,68	0
57	MG	1A	4058	1/1	0.95	0.12	31,31,31,31	0
57	MG	1A	3240	1/1	0.95	0.13	35,35,35,35	0
57	MG	2E	305	1/1	0.95	0.09	65,65,65,65	0
57	MG	2E	306	1/1	0.95	0.10	40,40,40,40	0
57	MG	1Q	201	1/1	0.95	0.12	34,34,34,34	0
57	MG	1Q	202	1/1	0.95	0.11	49,49,49,49	0
57	MG	2A	3161	1/1	0.95	0.09	48,48,48,48	0
57	MG	1A	3419	1/1	0.95	0.23	49,49,49,49	0
57	MG	1A	3695	1/1	0.95	0.07	35,35,35,35	0
57	MG	1A	3947	1/1	0.95	0.09	59,59,59,59	0
57	MG	1A	3141	1/1	0.95	0.22	37,37,37,37	0
57	MG	1a	1736	1/1	0.95	0.07	62,62,62,62	0
57	MG	2A	3624	1/1	0.95	0.09	51,51,51,51	0
57	MG	2A	3626	1/1	0.95	0.09	45,45,45,45	0
57	MG	1A	3698	1/1	0.95	0.07	29,29,29,29	0
57	MG	2A	3365	1/1	0.95	0.13	37,37,37,37	0
57	MG	1a	1738	1/1	0.95	0.19	44,44,44,44	0
57	MG	1a	1739	1/1	0.95	0.09	53,53,53,53	0
57	MG	2A	3631	1/1	0.95	0.08	61,61,61,61	0
58	K	1A	3435	1/1	0.95	0.13	57,57,57,57	0
57	MG	1A	3587	1/1	0.95	0.14	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3633	1/1	0.95	0.07	55,55,55,55	0
57	MG	2A	3208	1/1	0.96	0.34	41,41,41,41	0
57	MG	1A	4112	1/1	0.96	0.23	37,37,37,37	0
57	MG	1a	1852	1/1	0.96	0.09	67,67,67,67	0
57	MG	1A	3511	1/1	0.96	0.07	26,26,26,26	0
57	MG	1A	3161	1/1	0.96	0.11	24,24,24,24	0
57	MG	1W	205	1/1	0.96	0.11	32,32,32,32	0
57	MG	1A	4115	1/1	0.96	0.17	31,31,31,31	0
57	MG	1A	3784	1/1	0.96	0.08	45,45,45,45	0
57	MG	1a	1705	1/1	0.96	0.08	62,62,62,62	0
57	MG	2A	3217	1/1	0.96	0.23	37,37,37,37	0
57	MG	1A	3696	1/1	0.96	0.07	39,39,39,39	0
57	MG	1A	3905	1/1	0.96	0.16	41,41,41,41	0
57	MG	2a	1643	1/1	0.96	0.16	54,54,54,54	0
57	MG	2A	3376	1/1	0.96	0.28	55,55,55,55	0
57	MG	1A	4122	1/1	0.96	0.10	54,54,54,54	0
57	MG	2A	3780	1/1	0.96	0.15	57,57,57,57	0
57	MG	2A	3378	1/1	0.96	0.08	52,52,52,52	0
57	MG	1A	3162	1/1	0.96	0.06	30,30,30,30	0
57	MG	1A	4125	1/1	0.96	0.15	33,33,33,33	0
57	MG	1a	1711	1/1	0.96	0.16	49,49,49,49	0
57	MG	1A	3069	1/1	0.96	0.14	59,59,59,59	0
57	MG	2A	3786	1/1	0.96	0.05	59,59,59,59	0
57	MG	10	101	1/1	0.96	0.09	42,42,42,42	0
57	MG	1A	3518	1/1	0.96	0.06	33,33,33,33	0
57	MG	1A	4130	1/1	0.96	0.28	31,31,31,31	0
57	MG	2a	1656	1/1	0.96	0.11	66,66,66,66	0
57	MG	10	104	1/1	0.96	0.08	61,61,61,61	0
57	MG	2A	3581	1/1	0.96	0.06	55,55,55,55	0
57	MG	1a	1718	1/1	0.96	0.08	55,55,55,55	0
57	MG	1A	4010	1/1	0.96	0.07	60,60,60,60	0
57	MG	10	106	1/1	0.96	0.05	54,54,54,54	0
57	MG	1A	3790	1/1	0.96	0.09	38,38,38,38	0
57	MG	2a	1663	1/1	0.96	0.18	47,47,47,47	0
57	MG	2A	3391	1/1	0.96	0.32	46,46,46,46	0
57	MG	1A	3791	1/1	0.96	0.07	64,64,64,64	0
57	MG	1A	3792	1/1	0.96	0.07	66,66,66,66	0
57	MG	1A	3049	1/1	0.96	0.06	31,31,31,31	0
57	MG	1A	4138	1/1	0.96	0.32	42,42,42,42	0
57	MG	1A	3098	1/1	0.96	0.07	35,35,35,35	0
57	MG	1A	3072	1/1	0.96	0.06	36,36,36,36	0
57	MG	17	102	1/1	0.96	0.11	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	4142	1/1	0.96	0.25	52,52,52,52	0
57	MG	1A	4144	1/1	0.96	0.11	39,39,39,39	0
57	MG	1a	1735	1/1	0.96	0.08	53,53,53,53	0
57	MG	1A	3522	1/1	0.96	0.07	25,25,25,25	0
57	MG	1A	3341	1/1	0.96	0.17	38,38,38,38	0
57	MG	2A	3404	1/1	0.96	0.15	48,48,48,48	0
57	MG	1A	3798	1/1	0.96	0.07	57,57,57,57	0
57	MG	2A	3814	1/1	0.96	0.06	66,66,66,66	0
57	MG	1A	4150	1/1	0.96	0.12	45,45,45,45	0
57	MG	1A	4020	1/1	0.96	0.10	57,57,57,57	0
57	MG	1A	3293	1/1	0.96	0.09	44,44,44,44	0
57	MG	1a	1744	1/1	0.96	0.09	54,54,54,54	0
57	MG	1A	3002	1/1	0.96	0.05	19,19,19,19	0
57	MG	2A	3412	1/1	0.96	0.05	75,75,75,75	0
57	MG	2A	3608	1/1	0.96	0.10	37,37,37,37	0
57	MG	1A	3169	1/1	0.96	0.08	53,53,53,53	0
57	MG	2A	3610	1/1	0.96	0.07	58,58,58,58	0
57	MG	2A	3611	1/1	0.96	0.12	49,49,49,49	0
57	MG	1A	3028	1/1	0.96	0.32	36,36,36,36	0
57	MG	1A	3926	1/1	0.96	0.09	43,43,43,43	0
57	MG	2A	3097	1/1	0.96	0.19	51,51,51,51	0
57	MG	1A	3346	1/1	0.96	0.08	56,56,56,56	0
57	MG	1A	3102	1/1	0.96	0.11	44,44,44,44	0
57	MG	1A	3009	1/1	0.96	0.10	38,38,38,38	0
57	MG	2A	3618	1/1	0.96	0.07	70,70,70,70	0
57	MG	2A	3619	1/1	0.96	0.08	58,58,58,58	0
57	MG	1A	3299	1/1	0.96	0.13	39,39,39,39	0
57	MG	2A	3835	1/1	0.96	0.11	56,56,56,56	0
57	MG	1A	3300	1/1	0.96	0.07	48,48,48,48	0
57	MG	2A	3424	1/1	0.96	0.07	31,31,31,31	0
57	MG	1a	1754	1/1	0.96	0.06	67,67,67,67	0
57	MG	2A	3428	1/1	0.96	0.14	52,52,52,52	0
57	MG	2A	3840	1/1	0.96	0.07	64,64,64,64	0
57	MG	2A	3841	1/1	0.96	0.07	61,61,61,61	0
57	MG	2A	3430	1/1	0.96	0.07	56,56,56,56	0
57	MG	1a	1755	1/1	0.96	0.06	71,71,71,71	0
57	MG	1A	3933	1/1	0.96	0.06	75,75,75,75	0
57	MG	1A	3301	1/1	0.96	0.10	51,51,51,51	0
57	MG	1A	3134	1/1	0.96	0.10	51,51,51,51	0
57	MG	1a	1620	1/1	0.96	0.21	60,60,60,60	0
57	MG	1A	3058	1/1	0.96	0.12	34,34,34,34	0
57	MG	1A	3937	1/1	0.96	0.09	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3628	1/1	0.96	0.06	41,41,41,41	0
57	MG	2a	1718	1/1	0.96	0.07	74,74,74,74	0
57	MG	1A	3176	1/1	0.96	0.18	53,53,53,53	0
57	MG	2A	3442	1/1	0.96	0.04	38,38,38,38	0
57	MG	1A	3630	1/1	0.96	0.12	67,67,67,67	0
57	MG	1a	1770	1/1	0.96	0.15	74,74,74,74	0
57	MG	1A	4041	1/1	0.96	0.09	56,56,56,56	0
57	MG	1A	3139	1/1	0.96	0.09	22,22,22,22	0
57	MG	2A	3642	1/1	0.96	0.07	45,45,45,45	0
57	MG	2a	1726	1/1	0.96	0.05	79,79,79,79	0
57	MG	2A	3276	1/1	0.96	0.16	55,55,55,55	0
57	MG	1A	3410	1/1	0.96	0.09	62,62,62,62	0
57	MG	2A	3645	1/1	0.96	0.08	63,63,63,63	0
57	MG	2A	3278	1/1	0.96	0.07	63,63,63,63	0
57	MG	1A	3356	1/1	0.96	0.11	36,36,36,36	0
57	MG	1A	3545	1/1	0.96	0.12	46,46,46,46	0
57	MG	1A	3059	1/1	0.96	0.07	31,31,31,31	0
57	MG	2a	1734	1/1	0.96	0.06	76,76,76,76	0
57	MG	1A	3106	1/1	0.96	0.27	38,38,38,38	0
57	MG	1a	1780	1/1	0.96	0.05	65,65,65,65	0
57	MG	1A	3828	1/1	0.96	0.12	47,47,47,47	0
57	MG	1A	3642	1/1	0.96	0.10	54,54,54,54	0
57	MG	1A	3548	1/1	0.96	0.04	25,25,25,25	0
57	MG	1A	3220	1/1	0.96	0.06	56,56,56,56	0
57	MG	1A	3221	1/1	0.96	0.17	42,42,42,42	0
57	MG	2A	3465	1/1	0.96	0.12	37,37,37,37	0
57	MG	1a	1788	1/1	0.96	0.08	43,43,43,43	0
57	MG	1a	1638	1/1	0.96	0.18	46,46,46,46	0
57	MG	2A	3134	1/1	0.96	0.20	63,63,63,63	0
57	MG	1a	1639	1/1	0.96	0.10	56,56,56,56	0
57	MG	1A	3551	1/1	0.96	0.07	23,23,23,23	0
57	MG	2A	3472	1/1	0.96	0.09	44,44,44,44	0
57	MG	2A	3137	1/1	0.96	0.08	39,39,39,39	0
57	MG	1A	3835	1/1	0.96	0.06	72,72,72,72	0
57	MG	1A	3648	1/1	0.96	0.05	29,29,29,29	0
57	MG	1A	3956	1/1	0.96	0.07	53,53,53,53	0
57	MG	1A	3222	1/1	0.96	0.22	42,42,42,42	0
57	MG	2A	3478	1/1	0.96	0.06	34,34,34,34	0
57	MG	2A	3142	1/1	0.96	0.13	65,65,65,65	0
57	MG	1A	3958	1/1	0.96	0.10	26,26,26,26	0
57	MG	1A	3181	1/1	0.96	0.14	37,37,37,37	0
57	MG	2a	1759	1/1	0.96	0.12	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3476	1/1	0.96	0.36	33,33,33,33	0
57	MG	1A	3418	1/1	0.96	0.21	42,42,42,42	0
57	MG	2A	3485	1/1	0.96	0.08	38,38,38,38	0
57	MG	1A	3032	1/1	0.96	0.26	32,32,32,32	0
57	MG	2A	3149	1/1	0.96	0.15	74,74,74,74	0
57	MG	2A	3488	1/1	0.96	0.15	42,42,42,42	0
57	MG	1A	3227	1/1	0.96	0.12	42,42,42,42	0
57	MG	2A	3683	1/1	0.96	0.09	38,38,38,38	0
57	MG	1A	3740	1/1	0.96	0.10	57,57,57,57	0
57	MG	1A	3183	1/1	0.96	0.34	34,34,34,34	0
57	MG	2A	3153	1/1	0.96	0.13	53,53,53,53	0
57	MG	2A	3687	1/1	0.96	0.12	67,67,67,67	0
57	MG	1F	302	1/1	0.96	0.16	28,28,28,28	0
57	MG	1A	3483	1/1	0.96	0.25	37,37,37,37	0
57	MG	2A	3495	1/1	0.96	0.13	26,26,26,26	0
57	MG	1A	3484	1/1	0.96	0.12	37,37,37,37	0
57	MG	1x	3011	1/1	0.96	0.11	68,68,68,68	0
57	MG	2A	3498	1/1	0.96	0.09	62,62,62,62	0
57	MG	1A	3317	1/1	0.96	0.06	42,42,42,42	0
57	MG	1A	3660	1/1	0.96	0.07	43,43,43,43	0
57	MG	1A	3971	1/1	0.96	0.08	42,42,42,42	0
57	MG	1y	101	1/1	0.96	0.10	48,48,48,48	0
57	MG	1A	3746	1/1	0.96	0.04	36,36,36,36	0
57	MG	2A	3700	1/1	0.96	0.07	76,76,76,76	0
57	MG	1A	3853	1/1	0.96	0.07	52,52,52,52	0
57	MG	1a	1662	1/1	0.96	0.22	54,54,54,54	0
57	MG	1A	3661	1/1	0.96	0.04	29,29,29,29	0
57	MG	2A	3511	1/1	0.96	0.06	63,63,63,63	0
57	MG	1A	3080	1/1	0.96	0.18	35,35,35,35	0
57	MG	1A	3013	1/1	0.96	0.06	28,28,28,28	0
57	MG	1A	3425	1/1	0.96	0.14	48,48,48,48	0
57	MG	2A	3169	1/1	0.96	0.13	54,54,54,54	0
57	MG	1A	3113	1/1	0.96	0.28	31,31,31,31	0
57	MG	2A	3517	1/1	0.96	0.15	63,63,63,63	0
57	MG	1N	203	1/1	0.96	0.11	44,44,44,44	0
57	MG	1A	3035	1/1	0.96	0.16	38,38,38,38	0
57	MG	2A	3714	1/1	0.96	0.10	69,69,69,69	0
57	MG	1N	205	1/1	0.96	0.10	43,43,43,43	0
57	MG	1A	3863	1/1	0.96	0.06	24,24,24,24	0
57	MG	1A	3192	1/1	0.96	0.17	39,39,39,39	0
57	MG	2A	3012	1/1	0.96	0.06	48,48,48,48	0
57	MG	1A	3023	1/1	0.96	0.19	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3496	1/1	0.96	0.10	43,43,43,43	0
57	MG	2A	3527	1/1	0.96	0.07	35,35,35,35	0
57	MG	1a	1675	1/1	0.96	0.45	68,68,68,68	0
57	MG	1A	3584	1/1	0.96	0.06	33,33,33,33	0
57	MG	1A	3872	1/1	0.96	0.05	42,42,42,42	0
57	MG	1A	3677	1/1	0.96	0.05	19,19,19,19	0
57	MG	1A	3324	1/1	0.96	0.13	50,50,50,50	0
57	MG	1A	3878	1/1	0.96	0.21	51,51,51,51	0
57	MG	1A	3149	1/1	0.96	0.15	40,40,40,40	0
57	MG	2a	1605	1/1	0.96	0.24	52,52,52,52	0
57	MG	2a	1606	1/1	0.96	0.34	65,65,65,65	0
57	MG	2A	3027	1/1	0.96	0.08	43,43,43,43	0
57	MG	2A	3028	1/1	0.96	0.10	55,55,55,55	0
57	MG	2A	3029	1/1	0.96	0.08	53,53,53,53	0
57	MG	2q	202	1/1	0.96	0.05	77,77,77,77	0
57	MG	1A	3088	1/1	0.96	0.21	30,30,30,30	0
57	MG	1A	3046	1/1	0.96	0.22	52,52,52,52	0
57	MG	1A	3589	1/1	0.96	0.08	23,23,23,23	0
57	MG	1Q	205	1/1	0.96	0.07	51,51,51,51	0
57	MG	1A	3047	1/1	0.96	0.08	39,39,39,39	0
57	MG	1A	4100	1/1	0.96	0.27	49,49,49,49	0
57	MG	1A	3771	1/1	0.96	0.07	41,41,41,41	0
57	MG	2A	3741	1/1	0.96	0.07	43,43,43,43	0
57	MG	1A	3024	1/1	0.96	0.23	33,33,33,33	0
57	MG	2A	3744	1/1	0.96	0.06	37,37,37,37	0
57	MG	2x	106	1/1	0.96	0.17	69,69,69,69	0
57	MG	2A	3745	1/1	0.96	0.08	57,57,57,57	0
57	MG	1A	3996	1/1	0.96	0.14	56,56,56,56	0
57	MG	1A	3159	1/1	0.96	0.07	31,31,31,31	0
57	MG	2y	3004	1/1	0.96	0.25	64,64,64,64	0
57	MG	2A	3550	1/1	0.96	0.05	40,40,40,40	0
57	MG	1A	3505	1/1	0.96	0.08	41,41,41,41	0
57	MG	1A	3284	1/1	0.96	0.09	63,63,63,63	0
57	MG	1U	201	1/1	0.96	0.19	38,38,38,38	0
57	MG	1A	3285	1/1	0.96	0.09	55,55,55,55	0
57	MG	1A	3094	1/1	0.96	0.28	41,41,41,41	0
57	MG	1a	1697	1/1	0.96	0.06	60,60,60,60	0
57	MG	1V	201	1/1	0.96	0.25	47,47,47,47	0
59	ZN	2n	501	1/1	0.96	0.07	106,106,106,106	0
57	MG	1A	3666	1/1	0.97	0.09	19,19,19,19	0
57	MG	1A	3082	1/1	0.97	0.04	40,40,40,40	0
57	MG	1A	3007	1/1	0.97	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
57	MG	1A	3670	1/1	0.97	0.06	50,50,50,50	0
57	MG	1a	1862	1/1	0.97	0.07	34,34,34,34	0
57	MG	1A	4101	1/1	0.97	0.36	32,32,32,32	0
57	MG	1G	3005	1/1	0.97	0.05	64,64,64,64	0
57	MG	1A	3442	1/1	0.97	0.09	44,44,44,44	0
57	MG	1A	4103	1/1	0.97	0.14	38,38,38,38	0
57	MG	2A	3418	1/1	0.97	0.18	58,58,58,58	0
57	MG	1A	4104	1/1	0.97	0.14	53,53,53,53	0
57	MG	2A	3032	1/1	0.97	0.07	44,44,44,44	0
57	MG	1A	3537	1/1	0.97	0.05	32,32,32,32	0
57	MG	2a	1697	1/1	0.97	0.08	70,70,70,70	0
57	MG	1A	3673	1/1	0.97	0.07	17,17,17,17	0
57	MG	1A	3022	1/1	0.97	0.22	32,32,32,32	0
57	MG	1A	3171	1/1	0.97	0.24	44,44,44,44	0
57	MG	2D	302	1/1	0.97	0.06	33,33,33,33	0
57	MG	1A	3366	1/1	0.97	0.14	34,34,34,34	0
57	MG	1A	3367	1/1	0.97	0.26	39,39,39,39	0
57	MG	2a	1704	1/1	0.97	0.10	72,72,72,72	0
57	MG	2A	3429	1/1	0.97	0.08	42,42,42,42	0
57	MG	1A	3543	1/1	0.97	0.09	34,34,34,34	0
57	MG	1A	3071	1/1	0.97	0.13	39,39,39,39	0
57	MG	1A	3122	1/1	0.97	0.21	34,34,34,34	0
57	MG	1A	3750	1/1	0.97	0.11	39,39,39,39	0
57	MG	2A	3170	1/1	0.97	0.10	44,44,44,44	0
57	MG	1P	202	1/1	0.97	0.04	35,35,35,35	0
57	MG	1A	3233	1/1	0.97	0.12	34,34,34,34	0
57	MG	1A	3493	1/1	0.97	0.05	34,34,34,34	0
57	MG	1A	3087	1/1	0.97	0.23	39,39,39,39	0
57	MG	2A	3736	1/1	0.97	0.06	60,60,60,60	0
57	MG	1a	1768	1/1	0.97	0.05	75,75,75,75	0
57	MG	1A	3837	1/1	0.97	0.08	62,62,62,62	0
57	MG	1A	3010	1/1	0.97	0.09	57,57,57,57	0
57	MG	1A	3612	1/1	0.97	0.08	47,47,47,47	0
57	MG	2A	3445	1/1	0.97	0.05	29,29,29,29	0
57	MG	1A	3758	1/1	0.97	0.08	44,44,44,44	0
57	MG	2A	3052	1/1	0.97	0.20	62,62,62,62	0
57	MG	1A	4025	1/1	0.97	0.06	73,73,73,73	0
57	MG	1A	3125	1/1	0.97	0.13	29,29,29,29	0
57	MG	2A	3450	1/1	0.97	0.13	49,49,49,49	0
57	MG	1a	1661	1/1	0.97	0.21	61,61,61,61	0
57	MG	1A	3177	1/1	0.97	0.17	45,45,45,45	0
57	MG	2A	3453	1/1	0.97	0.09	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3454	1/1	0.97	0.12	64,64,64,64	0
57	MG	2A	3753	1/1	0.97	0.06	65,65,65,65	0
57	MG	1A	3761	1/1	0.97	0.05	23,23,23,23	0
57	MG	1A	3762	1/1	0.97	0.09	25,25,25,25	0
57	MG	2A	3760	1/1	0.97	0.09	51,51,51,51	0
57	MG	2A	3457	1/1	0.97	0.12	52,52,52,52	0
57	MG	2a	1736	1/1	0.97	0.15	67,67,67,67	0
57	MG	1A	3089	1/1	0.97	0.15	39,39,39,39	0
57	MG	1A	3061	1/1	0.97	0.13	45,45,45,45	0
57	MG	2W	3002	1/1	0.97	0.09	52,52,52,52	0
57	MG	2A	3061	1/1	0.97	0.05	41,41,41,41	0
57	MG	2A	3190	1/1	0.97	0.20	56,56,56,56	0
57	MG	1A	3554	1/1	0.97	0.08	41,41,41,41	0
57	MG	1A	3153	1/1	0.97	0.21	29,29,29,29	0
57	MG	1a	1787	1/1	0.97	0.04	77,77,77,77	0
57	MG	1A	3030	1/1	0.97	0.04	34,34,34,34	0
57	MG	1A	3504	1/1	0.97	0.09	17,17,17,17	0
57	MG	2A	3467	1/1	0.97	0.16	58,58,58,58	0
57	MG	2A	3068	1/1	0.97	0.08	45,45,45,45	0
57	MG	1A	3155	1/1	0.97	0.05	39,39,39,39	0
57	MG	1A	3627	1/1	0.97	0.18	29,29,29,29	0
57	MG	1A	3561	1/1	0.97	0.09	18,18,18,18	0
57	MG	1A	4147	1/1	0.97	0.11	34,34,34,34	0
57	MG	1A	3701	1/1	0.97	0.06	33,33,33,33	0
57	MG	1A	3954	1/1	0.97	0.05	36,36,36,36	0
57	MG	1a	1906	1/1	0.97	0.07	48,48,48,48	0
57	MG	1X	3002	1/1	0.97	0.14	39,39,39,39	0
57	MG	1a	1797	1/1	0.97	0.07	72,72,72,72	0
57	MG	1X	3003	1/1	0.97	0.08	51,51,51,51	0
57	MG	1A	3110	1/1	0.97	0.10	16,16,16,16	0
57	MG	1A	3858	1/1	0.97	0.12	18,18,18,18	0
57	MG	2A	3788	1/1	0.97	0.07	63,63,63,63	0
57	MG	2A	3081	1/1	0.97	0.07	45,45,45,45	0
57	MG	1Y	201	1/1	0.97	0.19	52,52,52,52	0
57	MG	2A	3483	1/1	0.97	0.14	61,61,61,61	0
57	MG	1A	3031	1/1	0.97	0.29	34,34,34,34	0
57	MG	1a	1803	1/1	0.97	0.05	61,61,61,61	0
57	MG	1A	3631	1/1	0.97	0.06	55,55,55,55	0
57	MG	1A	3566	1/1	0.97	0.06	28,28,28,28	0
57	MG	1A	3567	1/1	0.97	0.05	25,25,25,25	0
57	MG	1A	3093	1/1	0.97	0.18	40,40,40,40	0
57	MG	1A	3868	1/1	0.97	0.05	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	4050	1/1	0.97	0.06	34,34,34,34	0
57	MG	1A	3636	1/1	0.97	0.04	40,40,40,40	0
57	MG	1A	3012	1/1	0.97	0.15	48,48,48,48	0
57	MG	1A	3785	1/1	0.97	0.06	82,82,82,82	0
57	MG	1A	3966	1/1	0.97	0.05	55,55,55,55	0
57	MG	2A	3223	1/1	0.97	0.16	36,36,36,36	0
57	MG	1B	214	1/1	0.97	0.06	51,51,51,51	0
57	MG	1A	3314	1/1	0.97	0.11	40,40,40,40	0
57	MG	1A	3187	1/1	0.97	0.11	54,54,54,54	0
57	MG	2A	3808	1/1	0.97	0.08	64,64,64,64	0
57	MG	1A	3876	1/1	0.97	0.08	66,66,66,66	0
57	MG	2A	3810	1/1	0.97	0.09	61,61,61,61	0
57	MG	13	102	1/1	0.97	0.10	45,45,45,45	0
57	MG	2A	3650	1/1	0.97	0.09	46,46,46,46	0
57	MG	2A	3503	1/1	0.97	0.07	63,63,63,63	0
57	MG	1A	3573	1/1	0.97	0.05	43,43,43,43	0
57	MG	1A	3055	1/1	0.97	0.09	28,28,28,28	0
57	MG	1A	3880	1/1	0.97	0.09	59,59,59,59	0
57	MG	1A	3885	1/1	0.97	0.08	55,55,55,55	0
57	MG	1A	3886	1/1	0.97	0.05	52,52,52,52	0
57	MG	1w	107	1/1	0.97	0.06	49,49,49,49	0
57	MG	2A	3820	1/1	0.97	0.11	54,54,54,54	0
57	MG	1A	3575	1/1	0.97	0.07	27,27,27,27	0
57	MG	1A	3283	1/1	0.97	0.06	39,39,39,39	0
57	MG	1A	3189	1/1	0.97	0.16	34,34,34,34	0
57	MG	2A	3109	1/1	0.97	0.10	39,39,39,39	0
57	MG	1A	3253	1/1	0.97	0.06	48,48,48,48	0
57	MG	1A	3471	1/1	0.97	0.17	28,28,28,28	0
57	MG	1A	3219	1/1	0.97	0.16	40,40,40,40	0
57	MG	1A	3583	1/1	0.97	0.05	42,42,42,42	0
57	MG	1A	3190	1/1	0.97	0.14	35,35,35,35	0
57	MG	1A	3895	1/1	0.97	0.04	32,32,32,32	0
57	MG	2A	3522	1/1	0.97	0.05	73,73,73,73	0
57	MG	2A	3670	1/1	0.97	0.06	54,54,54,54	0
57	MG	2f	3001	1/1	0.97	0.09	58,58,58,58	0
57	MG	1A	3524	1/1	0.97	0.14	32,32,32,32	0
57	MG	1A	3525	1/1	0.97	0.08	25,25,25,25	0
57	MG	1B	236	1/1	0.97	0.05	33,33,33,33	0
57	MG	1a	1715	1/1	0.97	0.11	63,63,63,63	0
57	MG	1A	3137	1/1	0.97	0.30	32,32,32,32	0
57	MG	2A	3250	1/1	0.97	0.09	73,73,73,73	0
57	MG	1A	3899	1/1	0.97	0.07	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3801	1/1	0.97	0.07	65,65,65,65	0
57	MG	2A	3531	1/1	0.97	0.08	42,42,42,42	0
57	MG	2A	3123	1/1	0.97	0.07	46,46,46,46	0
57	MG	1A	3803	1/1	0.97	0.05	36,36,36,36	0
57	MG	1A	3902	1/1	0.97	0.08	58,58,58,58	0
57	MG	1A	3804	1/1	0.97	0.04	29,29,29,29	0
57	MG	2A	3846	1/1	0.97	0.10	80,80,80,80	0
57	MG	1a	1723	1/1	0.97	0.16	62,62,62,62	0
57	MG	2A	3128	1/1	0.97	0.14	62,62,62,62	0
57	MG	1a	1618	1/1	0.97	0.06	46,46,46,46	0
57	MG	1A	3138	1/1	0.97	0.18	36,36,36,36	0
57	MG	1A	3056	1/1	0.97	0.08	41,41,41,41	0
57	MG	1A	4083	1/1	0.97	0.09	57,57,57,57	0
57	MG	1A	3225	1/1	0.97	0.38	35,35,35,35	0
57	MG	1A	3057	1/1	0.97	0.15	45,45,45,45	0
57	MG	1A	3908	1/1	0.97	0.13	56,56,56,56	0
57	MG	1E	310	1/1	0.97	0.12	61,61,61,61	0
57	MG	1A	3480	1/1	0.97	0.15	38,38,38,38	0
57	MG	1A	3361	1/1	0.97	0.13	46,46,46,46	0
57	MG	1A	3663	1/1	0.97	0.08	46,46,46,46	0
57	MG	2A	3014	1/1	0.97	0.08	36,36,36,36	0
57	MG	1A	3438	1/1	0.97	0.20	31,31,31,31	0
57	MG	2A	3016	1/1	0.97	0.04	37,37,37,37	0
57	MG	1A	3665	1/1	0.97	0.07	57,57,57,57	0
57	MG	1A	3915	1/1	0.97	0.19	33,33,33,33	0
57	MG	2A	3405	1/1	0.97	0.14	22,22,22,22	0
59	ZN	2Y	501	1/1	0.97	0.05	94,94,94,94	0
57	MG	2A	3020	1/1	0.97	0.22	56,56,56,56	0
57	MG	2A	3021	1/1	0.97	0.30	50,50,50,50	0
60	SF4	1d	501	8/8	0.97	0.06	63,72,78,81	0
57	MG	1Y	204	1/1	0.98	0.12	46,46,46,46	0
57	MG	2A	3658	1/1	0.98	0.24	47,47,47,47	0
57	MG	1A	3658	1/1	0.98	0.04	40,40,40,40	0
57	MG	1A	4078	1/1	0.98	0.06	44,44,44,44	0
57	MG	2A	3538	1/1	0.98	0.10	39,39,39,39	0
57	MG	1a	1907	1/1	0.98	0.16	46,46,46,46	0
57	MG	2A	3066	1/1	0.98	0.16	51,51,51,51	0
57	MG	1A	3238	1/1	0.98	0.04	37,37,37,37	0
57	MG	1A	3932	1/1	0.98	0.09	56,56,56,56	0
57	MG	1A	3239	1/1	0.98	0.19	36,36,36,36	0
57	MG	1A	3041	1/1	0.98	0.05	24,24,24,24	0
57	MG	1A	3006	1/1	0.98	0.03	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3607	1/1	0.98	0.04	25,25,25,25	0
57	MG	1A	3516	1/1	0.98	0.04	17,17,17,17	0
57	MG	1A	3517	1/1	0.98	0.06	51,51,51,51	0
57	MG	1A	3859	1/1	0.98	0.05	34,34,34,34	0
57	MG	2A	3426	1/1	0.98	0.18	26,26,26,26	0
57	MG	1A	3562	1/1	0.98	0.07	27,27,27,27	0
57	MG	1A	3333	1/1	0.98	0.04	33,33,33,33	0
57	MG	12	3002	1/1	0.98	0.15	42,42,42,42	0
57	MG	1A	3668	1/1	0.98	0.06	44,44,44,44	0
57	MG	1A	3302	1/1	0.98	0.03	26,26,26,26	0
57	MG	1A	3001	1/1	0.98	0.05	50,50,50,50	0
57	MG	1B	235	1/1	0.98	0.04	40,40,40,40	0
57	MG	1A	4094	1/1	0.98	0.09	43,43,43,43	0
57	MG	17	101	1/1	0.98	0.05	45,45,45,45	0
57	MG	2A	3437	1/1	0.98	0.06	60,60,60,60	0
57	MG	1A	3866	1/1	0.98	0.05	28,28,28,28	0
57	MG	1A	4096	1/1	0.98	0.15	36,36,36,36	0
57	MG	1D	3003	1/1	0.98	0.03	18,18,18,18	0
57	MG	1A	3614	1/1	0.98	0.05	21,21,21,21	0
57	MG	1D	3006	1/1	0.98	0.07	34,34,34,34	0
57	MG	1D	3007	1/1	0.98	0.18	47,47,47,47	0
57	MG	1A	3615	1/1	0.98	0.09	24,24,24,24	0
57	MG	1A	4099	1/1	0.98	0.12	34,34,34,34	0
57	MG	2A	3692	1/1	0.98	0.04	69,69,69,69	0
57	MG	1A	3140	1/1	0.98	0.05	35,35,35,35	0
57	MG	1A	3478	1/1	0.98	0.11	32,32,32,32	0
57	MG	1A	3618	1/1	0.98	0.06	56,56,56,56	0
57	MG	1A	3119	1/1	0.98	0.08	38,38,38,38	0
57	MG	1E	305	1/1	0.98	0.11	33,33,33,33	0
57	MG	1A	3008	1/1	0.98	0.06	33,33,33,33	0
57	MG	1a	1609	1/1	0.98	0.06	51,51,51,51	0
57	MG	1a	1610	1/1	0.98	0.09	24,24,24,24	0
57	MG	1E	307	1/1	0.98	0.07	29,29,29,29	0
57	MG	1A	4026	1/1	0.98	0.04	46,46,46,46	0
57	MG	1a	1613	1/1	0.98	0.04	58,58,58,58	0
57	MG	1A	3877	1/1	0.98	0.05	77,77,77,77	0
57	MG	1A	3678	1/1	0.98	0.07	24,24,24,24	0
57	MG	1A	3737	1/1	0.98	0.11	41,41,41,41	0
57	MG	1A	3191	1/1	0.98	0.28	37,37,37,37	0
57	MG	1A	3882	1/1	0.98	0.05	37,37,37,37	0
57	MG	1A	3247	1/1	0.98	0.21	49,49,49,49	0
57	MG	1A	3033	1/1	0.98	0.04	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3168	1/1	0.98	0.29	35,35,35,35	0
57	MG	1A	3808	1/1	0.98	0.05	45,45,45,45	0
57	MG	2A	3589	1/1	0.98	0.15	40,40,40,40	0
57	MG	1A	3576	1/1	0.98	0.04	25,25,25,25	0
57	MG	1A	3015	1/1	0.98	0.04	18,18,18,18	0
57	MG	1A	3003	1/1	0.98	0.04	41,41,41,41	0
57	MG	1A	4118	1/1	0.98	0.09	36,36,36,36	0
57	MG	1A	3686	1/1	0.98	0.11	25,25,25,25	0
57	MG	1A	4120	1/1	0.98	0.15	30,30,30,30	0
57	MG	1A	4121	1/1	0.98	0.19	31,31,31,31	0
57	MG	2A	3004	1/1	0.98	0.05	46,46,46,46	0
57	MG	1A	3687	1/1	0.98	0.05	39,39,39,39	0
57	MG	1A	4123	1/1	0.98	0.29	33,33,33,33	0
57	MG	1A	3815	1/1	0.98	0.06	58,58,58,58	0
57	MG	2A	3009	1/1	0.98	0.09	50,50,50,50	0
57	MG	2A	3727	1/1	0.98	0.05	67,67,67,67	0
57	MG	1A	3005	1/1	0.98	0.12	42,42,42,42	0
57	MG	1A	4126	1/1	0.98	0.21	38,38,38,38	0
57	MG	1a	1742	1/1	0.98	0.08	57,57,57,57	0
57	MG	1a	1743	1/1	0.98	0.05	41,41,41,41	0
57	MG	1A	3748	1/1	0.98	0.14	37,37,37,37	0
57	MG	1A	3378	1/1	0.98	0.04	37,37,37,37	0
57	MG	1A	3223	1/1	0.98	0.10	44,44,44,44	0
57	MG	1A	3633	1/1	0.98	0.04	34,34,34,34	0
57	MG	1A	3582	1/1	0.98	0.08	20,20,20,20	0
57	MG	1A	3753	1/1	0.98	0.05	40,40,40,40	0
57	MG	1A	3823	1/1	0.98	0.06	65,65,65,65	0
57	MG	1A	4136	1/1	0.98	0.15	45,45,45,45	0
57	MG	1A	3107	1/1	0.98	0.04	38,38,38,38	0
57	MG	1A	3026	1/1	0.98	0.04	37,37,37,37	0
57	MG	1A	4139	1/1	0.98	0.07	37,37,37,37	0
57	MG	2A	3743	1/1	0.98	0.08	44,44,44,44	0
57	MG	1A	3637	1/1	0.98	0.04	46,46,46,46	0
57	MG	1A	3109	1/1	0.98	0.12	34,34,34,34	0
57	MG	1A	3064	1/1	0.98	0.14	32,32,32,32	0
57	MG	1A	4143	1/1	0.98	0.26	37,37,37,37	0
57	MG	2A	3145	1/1	0.98	0.10	38,38,38,38	0
57	MG	1A	3494	1/1	0.98	0.10	35,35,35,35	0
57	MG	1A	3909	1/1	0.98	0.04	38,38,38,38	0
57	MG	1A	3027	1/1	0.98	0.05	20,20,20,20	0
57	MG	1a	1763	1/1	0.98	0.05	65,65,65,65	0
57	MG	2A	3755	1/1	0.98	0.05	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2E	301	1/1	0.98	0.17	59,59,59,59	0
57	MG	2A	3757	1/1	0.98	0.05	68,68,68,68	0
57	MG	1A	3152	1/1	0.98	0.21	37,37,37,37	0
57	MG	1A	3203	1/1	0.98	0.17	33,33,33,33	0
57	MG	1A	3645	1/1	0.98	0.09	44,44,44,44	0
57	MG	1A	3591	1/1	0.98	0.04	10,10,10,10	0
57	MG	1A	3011	1/1	0.98	0.10	43,43,43,43	0
57	MG	1a	1771	1/1	0.98	0.04	60,60,60,60	0
57	MG	1A	3916	1/1	0.98	0.05	32,32,32,32	0
57	MG	1U	203	1/1	0.98	0.24	37,37,37,37	0
57	MG	1A	3096	1/1	0.98	0.21	40,40,40,40	0
57	MG	2A	3768	1/1	0.98	0.06	72,72,72,72	0
57	MG	1U	205	1/1	0.98	0.21	30,30,30,30	0
57	MG	1U	206	1/1	0.98	0.20	40,40,40,40	0
57	MG	2A	3771	1/1	0.98	0.06	52,52,52,52	0
57	MG	1A	3389	1/1	0.98	0.12	42,42,42,42	0
57	MG	2A	3639	1/1	0.98	0.04	33,33,33,33	0
57	MG	1A	3133	1/1	0.98	0.21	42,42,42,42	0
57	MG	1a	1779	1/1	0.98	0.05	68,68,68,68	0
57	MG	1A	3019	1/1	0.98	0.14	31,31,31,31	0
57	MG	1a	1781	1/1	0.98	0.04	55,55,55,55	0
57	MG	1A	3158	1/1	0.98	0.07	30,30,30,30	0
57	MG	1W	203	1/1	0.98	0.12	38,38,38,38	0
57	MG	1W	204	1/1	0.98	0.19	34,34,34,34	0
57	MG	1A	3466	1/1	0.98	0.09	41,41,41,41	0
57	MG	1A	3083	1/1	0.98	0.22	40,40,40,40	0
57	MG	1A	3844	1/1	0.98	0.07	30,30,30,30	0
57	MG	1A	3508	1/1	0.98	0.14	39,39,39,39	0
57	MG	1A	3394	1/1	0.98	0.08	36,36,36,36	0
57	MG	1A	3777	1/1	0.98	0.08	48,48,48,48	0
59	ZN	14	501	1/1	0.98	0.05	99,99,99,99	0
57	MG	1X	3006	1/1	0.98	0.05	35,35,35,35	0
57	MG	1A	3136	1/1	0.98	0.17	40,40,40,40	0
59	ZN	25	101	1/1	0.98	0.06	59,59,59,59	0
57	MG	1A	3779	1/1	0.98	0.05	29,29,29,29	0
57	MG	2A	3293	1/1	0.98	0.05	58,58,58,58	0
60	SF4	2d	501	8/8	0.98	0.05	66,75,87,95	0
57	MG	2A	3414	1/1	0.99	0.03	64,64,64,64	0
57	MG	1A	3780	1/1	0.99	0.05	30,30,30,30	0
57	MG	1A	3881	1/1	0.99	0.03	52,52,52,52	0
57	MG	1A	4086	1/1	0.99	0.10	30,30,30,30	0
57	MG	2A	3709	1/1	0.99	0.05	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3572	1/1	0.99	0.08	18,18,18,18	0
57	MG	2A	3764	1/1	0.99	0.03	35,35,35,35	0
57	MG	1A	3884	1/1	0.99	0.06	46,46,46,46	0
57	MG	1A	3557	1/1	0.99	0.05	19,19,19,19	0
57	MG	1A	3051	1/1	0.99	0.08	18,18,18,18	0
57	MG	2A	3333	1/1	0.99	0.08	41,41,41,41	0
57	MG	1A	3830	1/1	0.99	0.06	64,64,64,64	0
57	MG	1B	205	1/1	0.99	0.05	45,45,45,45	0
57	MG	1D	3005	1/1	0.99	0.13	33,33,33,33	0
57	MG	1A	3624	1/1	0.99	0.04	54,54,54,54	0
57	MG	2A	3427	1/1	0.99	0.08	71,71,71,71	0
57	MG	1A	3512	1/1	0.99	0.09	26,26,26,26	0
57	MG	1A	3560	1/1	0.99	0.05	34,34,34,34	0
57	MG	1A	3126	1/1	0.99	0.17	32,32,32,32	0
57	MG	1A	3157	1/1	0.99	0.16	24,24,24,24	0
57	MG	2A	3625	1/1	0.99	0.06	30,30,30,30	0
57	MG	2a	1706	1/1	0.99	0.04	73,73,73,73	0
57	MG	1a	1757	1/1	0.99	0.04	49,49,49,49	0
57	MG	1A	3439	1/1	0.99	0.30	31,31,31,31	0
57	MG	1A	4128	1/1	0.99	0.10	31,31,31,31	0
57	MG	1A	3081	1/1	0.99	0.15	28,28,28,28	0
57	MG	1A	3814	1/1	0.99	0.04	51,51,51,51	0
57	MG	2A	3131	1/1	0.99	0.05	55,55,55,55	0
57	MG	1a	1722	1/1	0.99	0.06	36,36,36,36	0
57	MG	1A	3688	1/1	0.99	0.05	30,30,30,30	0
57	MG	1a	1764	1/1	0.99	0.04	49,49,49,49	0
57	MG	2A	3441	1/1	0.99	0.04	48,48,48,48	0
57	MG	2A	3008	1/1	0.99	0.05	45,45,45,45	0
57	MG	1A	3565	1/1	0.99	0.05	21,21,21,21	0
57	MG	1A	3495	1/1	0.99	0.06	42,42,42,42	0
57	MG	1A	4134	1/1	0.99	0.14	32,32,32,32	0
57	MG	1A	3540	1/1	0.99	0.04	29,29,29,29	0
57	MG	1a	1769	1/1	0.99	0.04	54,54,54,54	0
57	MG	1A	3870	1/1	0.99	0.05	35,35,35,35	0
57	MG	1A	3073	1/1	0.99	0.12	21,21,21,21	0
57	MG	1F	303	1/1	0.99	0.14	31,31,31,31	0
57	MG	2A	3017	1/1	0.99	0.04	46,46,46,46	0
57	MG	1A	3004	1/1	0.99	0.04	24,24,24,24	0
57	MG	1A	3775	1/1	0.99	0.07	41,41,41,41	0
57	MG	1A	3874	1/1	0.99	0.02	56,56,56,56	0
57	MG	1A	3846	1/1	0.99	0.07	25,25,25,25	0
57	MG	1A	3443	1/1	0.99	0.11	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	ZN	1Y	202	1/1	0.99	0.02	63,63,63,63	0
57	MG	1A	3619	1/1	0.99	0.03	53,53,53,53	0
59	ZN	1n	501	1/1	0.99	0.03	67,67,67,67	0
57	MG	1A	3638	1/1	0.99	0.06	24,24,24,24	0
57	MG	2A	3508	1/1	0.99	0.03	46,46,46,46	0
57	MG	2A	3754	1/1	0.99	0.04	43,43,43,43	0
59	ZN	26	501	1/1	0.99	0.04	67,67,67,67	0
59	ZN	29	102	1/1	0.99	0.04	70,70,70,70	0
57	MG	1A	3053	1/1	0.99	0.05	20,20,20,20	0
57	MG	2A	3756	1/1	0.99	0.04	46,46,46,46	0
57	MG	1A	4146	1/1	0.99	0.02	29,29,29,29	0
57	MG	1a	1730	1/1	1.00	0.06	35,35,35,35	0
57	MG	1A	3802	1/1	1.00	0.05	24,24,24,24	0
57	MG	1A	3756	1/1	1.00	0.07	27,27,27,27	0
59	ZN	15	101	1/1	1.00	0.04	43,43,43,43	0
59	ZN	16	101	1/1	1.00	0.06	45,45,45,45	0
59	ZN	19	102	1/1	1.00	0.06	47,47,47,47	0
57	MG	1A	3861	1/1	1.00	0.02	58,58,58,58	0
57	MG	2A	3507	1/1	1.00	0.07	37,37,37,37	0
57	MG	1B	225	1/1	1.00	0.02	33,33,33,33	0
57	MG	1A	3507	1/1	1.00	0.07	34,34,34,34	0
57	MG	2A	3752	1/1	1.00	0.07	36,36,36,36	0
57	MG	1A	3867	1/1	1.00	0.02	27,27,27,27	0
57	MG	1A	3883	1/1	1.00	0.03	17,17,17,17	0
57	MG	2A	3501	1/1	1.00	0.03	37,37,37,37	0
57	MG	1a	1729	1/1	1.00	0.06	39,39,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.