Full wwPDB X-ray Structure Validation Report (i)

Jul 29, 2024 – 11:45 PM EDT

PDB ID	:	8VTU
Title	:	Crystal structure of the wild-type Thermus thermophilus 70S ribosome in complex with macrolone MCX-66, mRNA, aminoacylated A-site Phe-tRNAphe, aminoacylated P-site fMet-tRNAmet, and deacylated E-site tRNAphe at 2.40A resolution
Authors	:	Aleksandrova, E.V.; Ma, C.-X.; Klepacki, D.; Alizadeh, F.; Vazquez-Laslop, N.; Liang, J.-H.; Polikanov, Y.S.; Mankin, A.S.
Deposited on	:	2024-01-27
Resolution	:	2.40 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

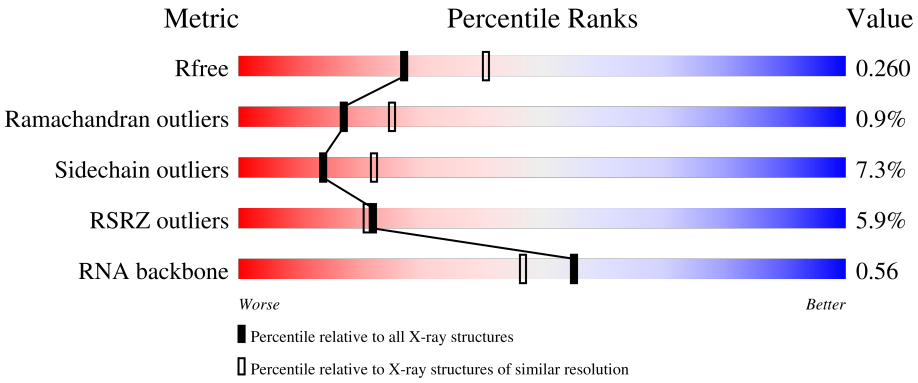
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.40 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3907 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)
RNA backbone	3102	1174 (2.80-2.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	5% 83% 15%
1	2A	2915	4% 80% 16%
2	1B	121	89% 10%

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

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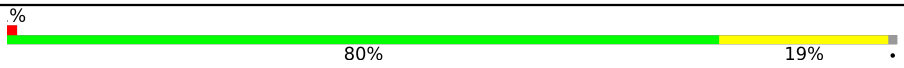
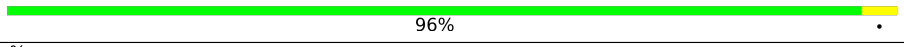
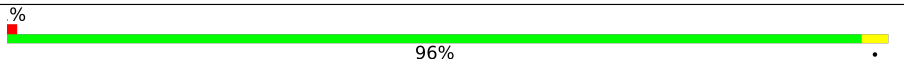
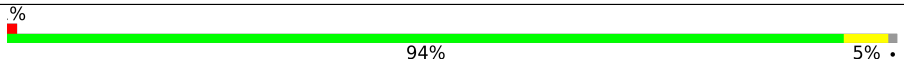
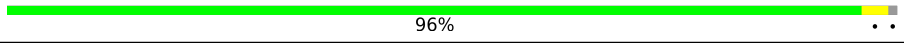
Mol	Chain	Length	Quality of chain
2	2B	121	
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
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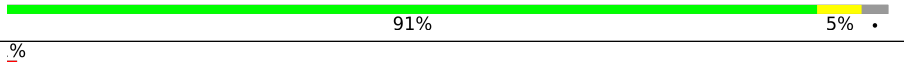
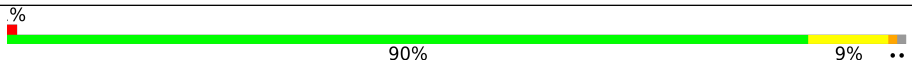
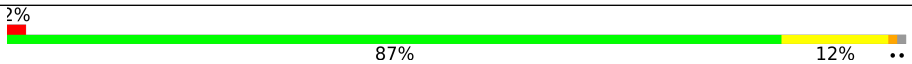
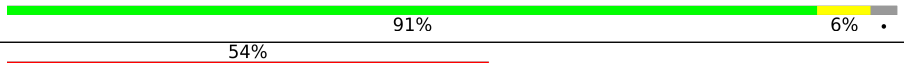
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
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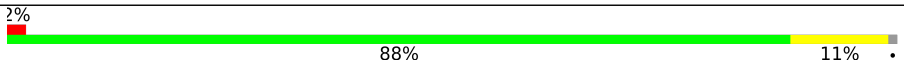
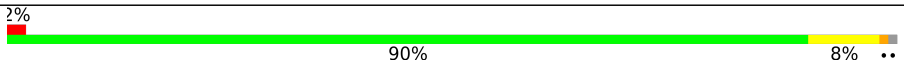
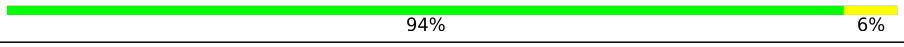
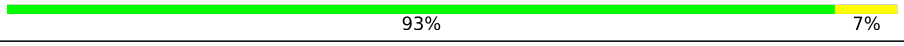
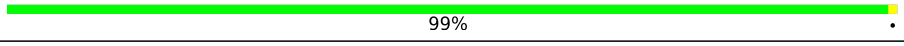
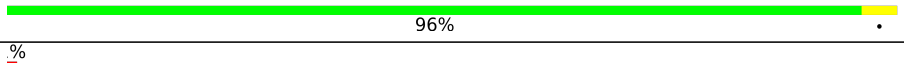
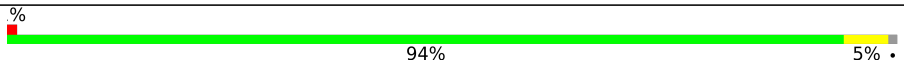
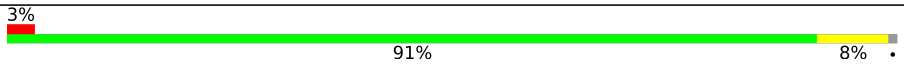
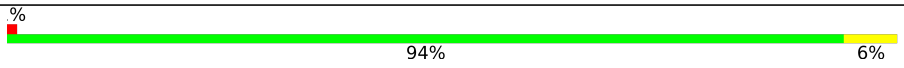
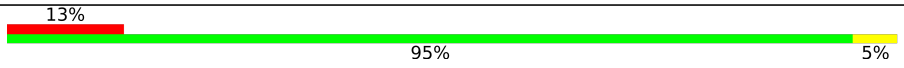
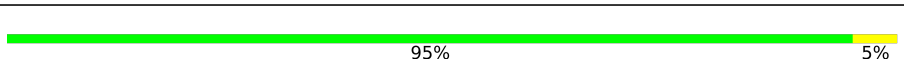
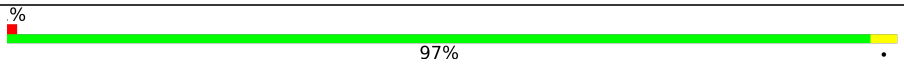
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
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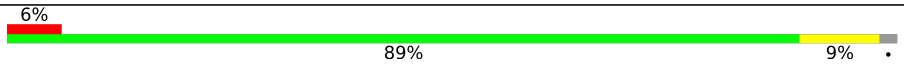
14	2S	112	

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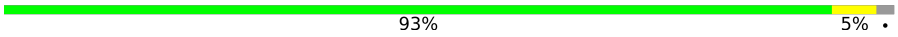
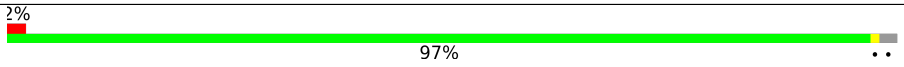
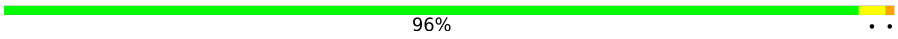
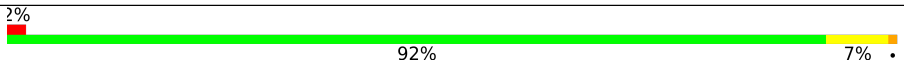
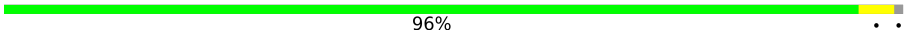
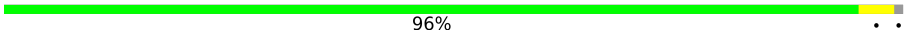
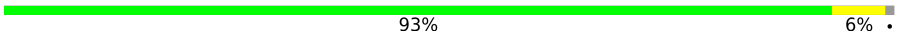
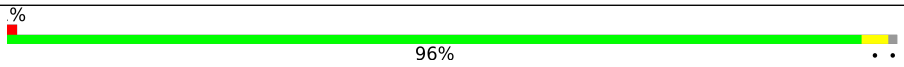
Mol	Chain	Length	Quality of chain
15	1T	146	
15	2T	146	
16	1U	118	
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
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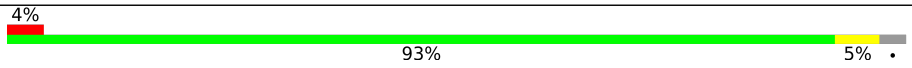
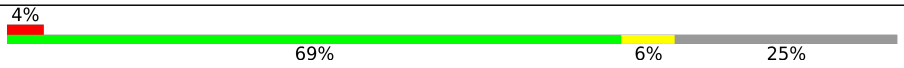
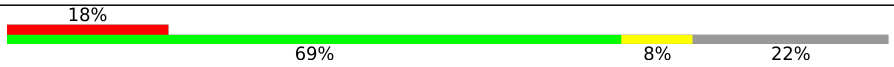
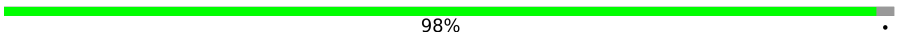
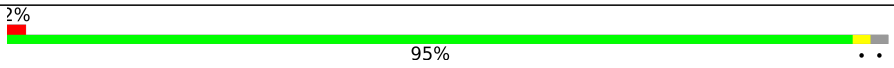
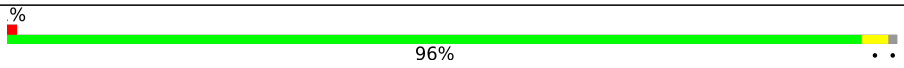
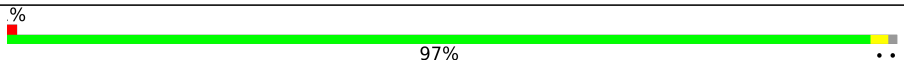
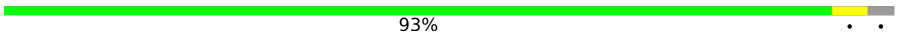
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
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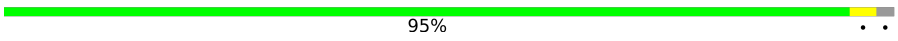
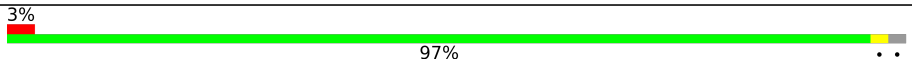
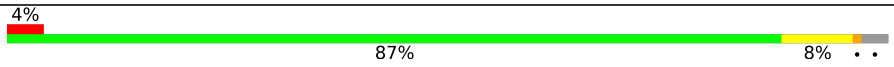
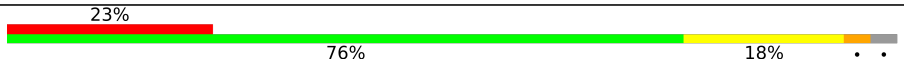
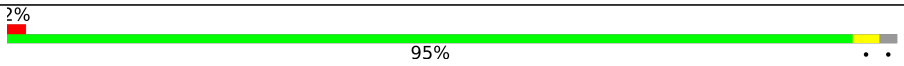
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	

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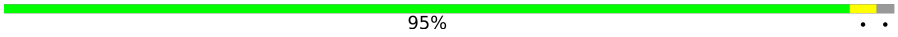
Mol	Chain	Length	Quality of chain
27	25	60	
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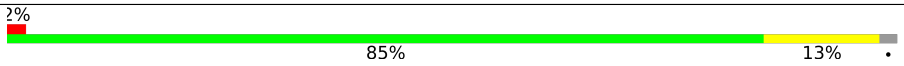
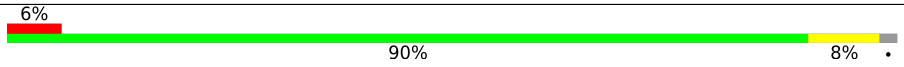
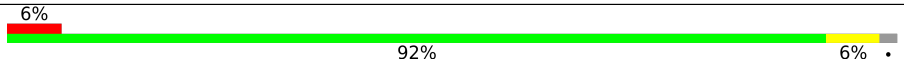
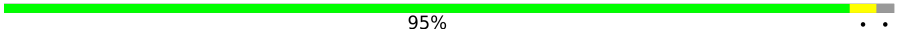
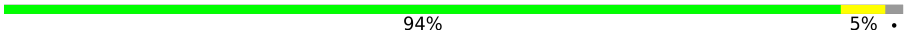
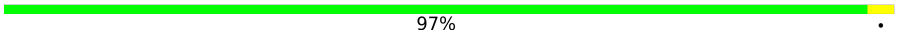
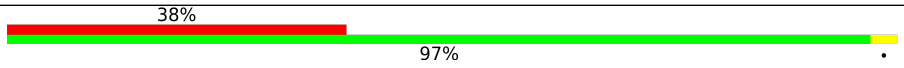
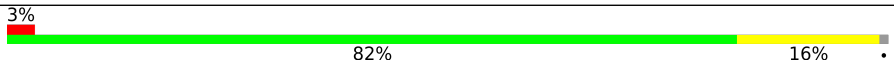
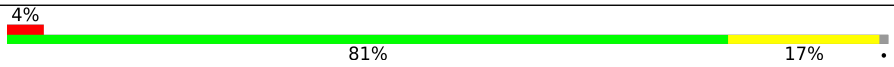
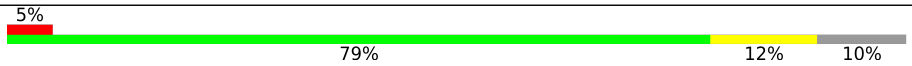
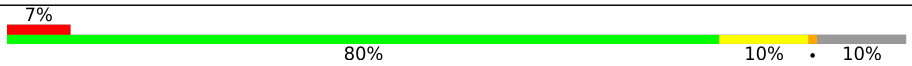
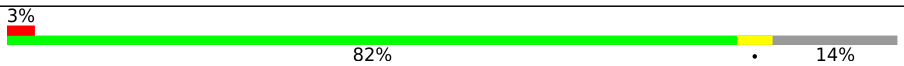
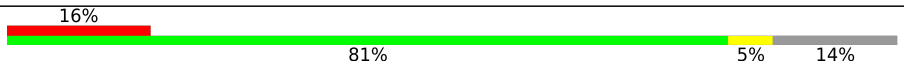
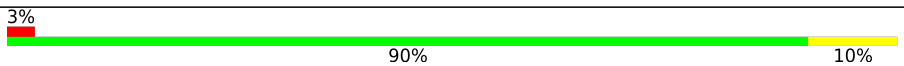
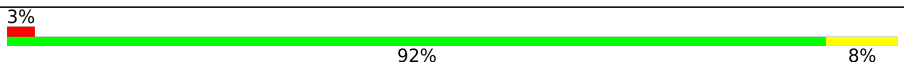
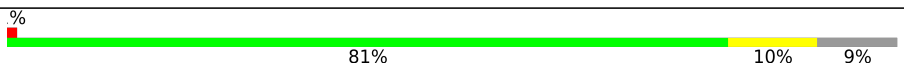
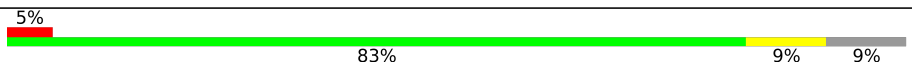
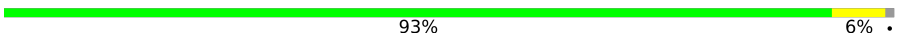
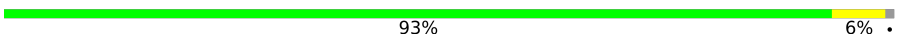
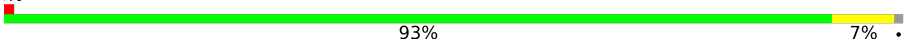
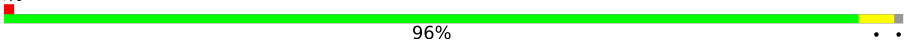
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	
39	2h	138	

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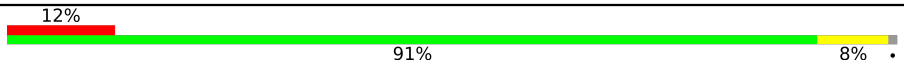
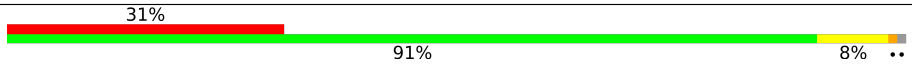
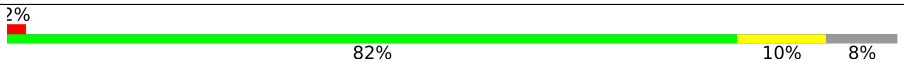
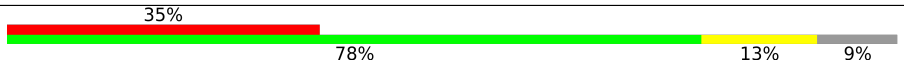
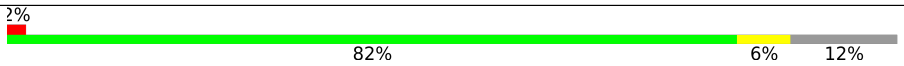
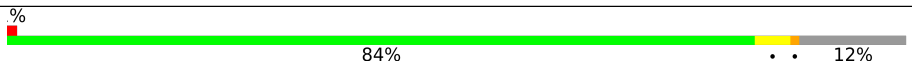
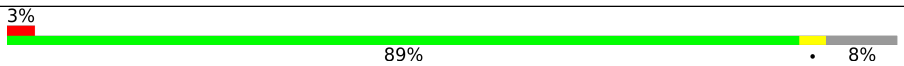
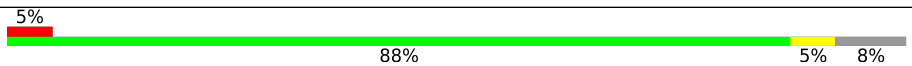
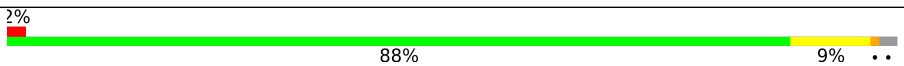
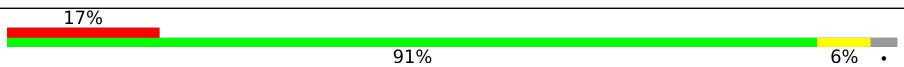
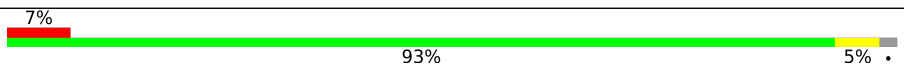
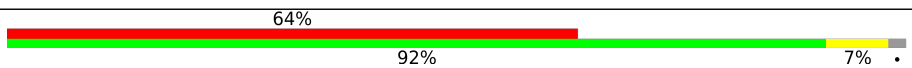
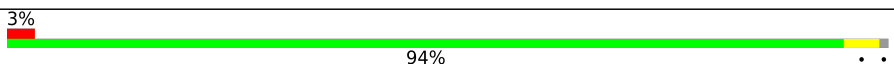
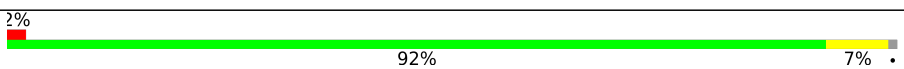
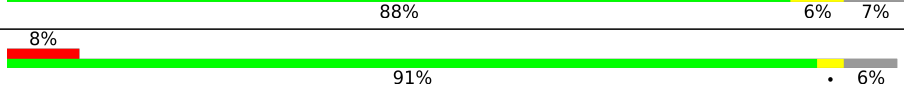
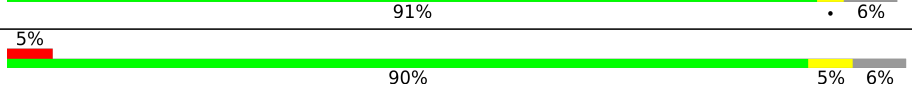
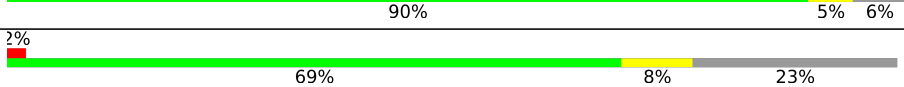
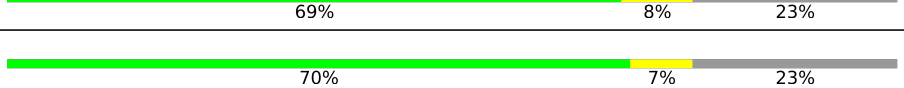
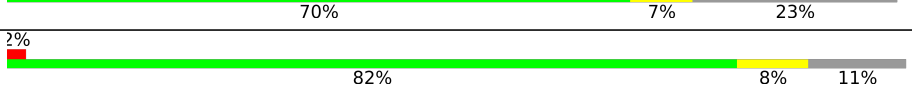
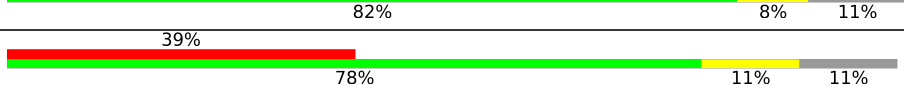
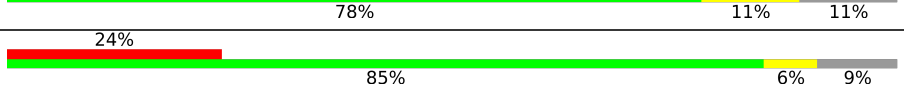
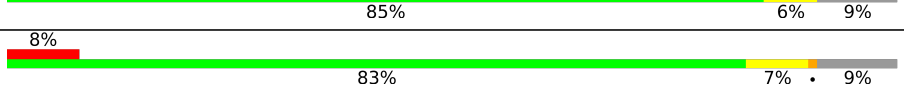
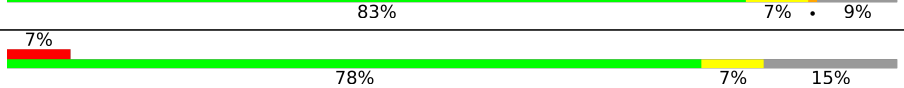
Mol	Chain	Length	Quality of chain
40	1i	128	
40	2i	128	
41	1j	105	
41	2j	105	
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	
52	1u	27	

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Mol	Chain	Length	Quality of chain
52	2u	27	67% 78% 7% 15%
53	1v	24	17% 42% 12% 46%
53	2v	24	21% 42% 12% 46%
54	1w	76	8% 61% 33%
54	2w	76	18% 57% 36% 5%
55	1x	77	83% 16%
55	2x	77	% 83% 16%
56	1y	76	82% 46% 47%
56	2y	76	86% 54% 41%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MIA	1y	37	-	-	-	X
56	PSU	1y	39	-	-	-	X
56	5MU	1y	54	-	-	-	X
56	PSU	1y	55	-	-	-	X
56	PSU	2y	32	-	-	-	X
56	MIA	2y	37	-	-	-	X
56	PSU	2y	39	-	-	-	X
56	5MU	2y	54	-	-	-	X
56	PSU	2y	55	-	-	-	X
57	MG	10	107	-	-	-	X
57	MG	18	105	-	-	-	X
57	MG	1A	3336	-	-	-	X
57	MG	1U	211	-	-	-	X
57	MG	2A	3264	-	-	-	X
57	MG	2A	3331	-	-	-	X
57	MG	2a	1615	-	-	-	X

2 Entry composition

There are 64 unique types of molecules in this entry. The entry contains 300455 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 933	C 588	N 171	O 170	S 4	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	1Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			
20	2Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			
22	20	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	11	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			
23	21	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			532	339	97	91	5			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	1a	1500	Total	C	N	O	P	0	0	0
			32246	14358	5975	10413	1500			
32	2a	1503	Total	C	N	O	P	0	0	0
			32327	14396	5990	10438	1503			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	1b	231	Total	C	N	O	S	0	0	0
			1846	1179	331	331	5			
33	2b	231	Total	C	N	O	S	0	0	0
			1825	1167	326	327	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	1c	206	Total	C	N	O	S	0	0	0
			1548	973	301	273	1			
34	2c	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1d	208	Total	C	N	O	S	0	0	0
			1655	1038	326	284	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1674	1050	333	284	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1e	148	Total	C	N	O	S	0	0	0
			1129	714	213	198	4			
36	2e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	1f	100	Total	C	N	O	S	0	0	0
			810	514	144	149	3			
37	2f	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	1g	155	Total	C	N	O	S	0	0	0
			1231	766	243	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	1i	127	Total	C	N	O	0	0	0
			983	623	193	167			
40	2i	127	Total	C	N	O	0	0	0
			978	619	190	169			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	1j	97	Total	C	N	O	0	0	0
			709	440	138	131			
41	2j	96	Total	C	N	O	0	0	0
			714	445	138	131			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	1k	114	Total	C	N	O	S	0	0	0
			829	516	155	155	3			

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1m	123	Total	C	N	O	S	0	0	0
			958	592	198	166	2			
44	2m	122	Total	C	N	O	S	0	0	0
			950	586	197	165	2			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1s	83	Total	C	N	O	S	0	0	0
			652	417	120	113	2			
50	2s	83	Total	C	N	O	S	0	0	0
			646	412	119	113	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	1t	96	Total	C	N	O	S	0	0	0
			728	446	156	124	2			
51	2t	96	Total	C	N	O	S	0	0	0
			727	446	155	124	2			

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

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

- Molecule 53 is a RNA chain called MF-mRNA.

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

- Molecule 54 is a RNA chain called Aminoacylated Phe-tRNAphe.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	74	Total	C	N	O	P	S	0	0	0
			1592	713	286	517	74	2			
54	2w	72	Total	C	N	O	P	S	0	0	0
			1544	690	279	501	72	2			

- Molecule 55 is a RNA chain called Aminoacylated fMet-tRNAmet.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
55	1x	77	Total	C	N	O	P	S	0	0	0
			1646	734	298	536	77	1			
55	2x	77	Total	C	N	O	P	S	0	0	0
			1646	734	298	536	77	1			

- Molecule 56 is a RNA chain called Deacylated tRNAphe.

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

- Molecule 57 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1A	1117	Total	Mg	0	0
			1117	1117		
57	1B	37	Total	Mg	0	0
			37	37		
57	1D	15	Total	Mg	0	0
			15	15		
57	1E	15	Total	Mg	0	0
			15	15		
57	1F	12	Total	Mg	0	0
			12	12		

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	16	1	Total Mg 1 1	0	0
57	17	5	Total Mg 5 5	0	0
57	18	5	Total Mg 5 5	0	0
57	19	1	Total Mg 1 1	0	0
57	1a	222	Total Mg 222 222	0	0
57	1b	1	Total Mg 1 1	0	0
57	1e	2	Total Mg 2 2	0	0
57	1f	2	Total Mg 2 2	0	0
57	1h	1	Total Mg 1 1	0	0
57	1j	1	Total Mg 1 1	0	0
57	1k	1	Total Mg 1 1	0	0
57	1l	2	Total Mg 2 2	0	0
57	1m	1	Total Mg 1 1	0	0
57	1n	1	Total Mg 1 1	0	0
57	1t	1	Total Mg 1 1	0	0
57	1v	1	Total Mg 1 1	0	0
57	1w	9	Total Mg 9 9	0	0
57	1x	14	Total Mg 14 14	0	0
57	2A	842	Total Mg 842 842	0	0
57	2B	18	Total Mg 18 18	0	0
57	2D	9	Total Mg 9 9	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	2E	8	Total Mg 8 8	0	0
57	2F	8	Total Mg 8 8	0	0
57	2G	1	Total Mg 1 1	0	0
57	2N	1	Total Mg 1 1	0	0
57	2O	2	Total Mg 2 2	0	0
57	2P	1	Total Mg 1 1	0	0
57	2Q	3	Total Mg 3 3	0	0
57	2R	3	Total Mg 3 3	0	0
57	2T	4	Total Mg 4 4	0	0
57	2U	2	Total Mg 2 2	0	0
57	2V	2	Total Mg 2 2	0	0
57	2W	1	Total Mg 1 1	0	0
57	2X	2	Total Mg 2 2	0	0
57	2Y	1	Total Mg 1 1	0	0
57	2Z	1	Total Mg 1 1	0	0
57	20	1	Total Mg 1 1	0	0
57	21	3	Total Mg 3 3	0	0
57	23	2	Total Mg 2 2	0	0
57	25	4	Total Mg 4 4	0	0
57	27	2	Total Mg 2 2	0	0
57	28	2	Total Mg 2 2	0	0

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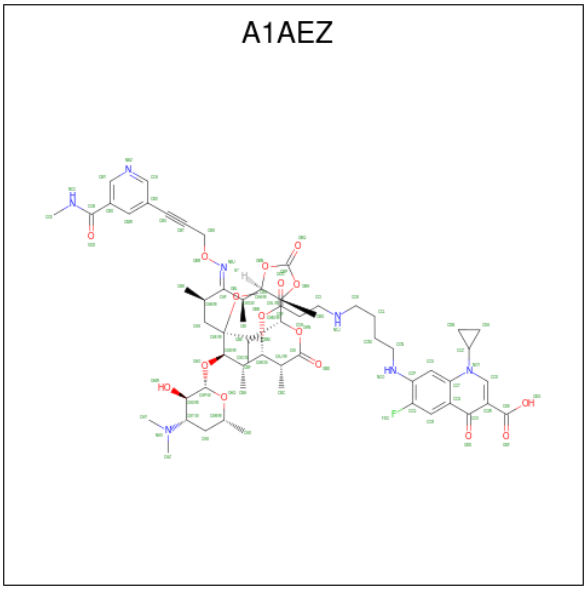
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	2a	231	Total Mg 231 231	0	0
57	2d	1	Total Mg 1 1	0	0
57	2e	1	Total Mg 1 1	0	0
57	2f	2	Total Mg 2 2	0	0
57	2g	1	Total Mg 1 1	0	0
57	2j	1	Total Mg 1 1	0	0
57	2l	4	Total Mg 4 4	0	0
57	2m	1	Total Mg 1 1	0	0
57	2q	2	Total Mg 2 2	0	0
57	2r	1	Total Mg 1 1	0	0
57	2t	1	Total Mg 1 1	0	0
57	2v	2	Total Mg 2 2	0	0
57	2w	7	Total Mg 7 7	0	0
57	2x	7	Total Mg 7 7	0	0
57	2y	2	Total Mg 2 2	0	0

- Molecule 58 is POTASSIUM ION (three-letter code: K) (formula: K).

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

- Molecule 59 is 1-cyclopropyl-7-[(4-{[3-({(3aR,4R,7R,8S,9S,10R,11R,13R,14E,15S,15aR)-10-{[(2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy}-4-ethyl-11-methoxy-3a,7,9,11,13,15-hexamethyl-14-[({3-[5-(methylcarbamoyl)pyridin-3-yl]prop-2-yn-1-yl}oxy)imino]-2,6-dioxododecahydro-2H,4H-[1,3]dioxolo[4,5-c]oxacyclotetradecin-8-yl}

oxy)-3-oxopropyl]amino}butyl)amino]-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid (non-preferred name) (three-letter code: A1AEZ) (formula: $C_{61}H_{84}FN_7O_{16}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1A	1	Total C F N O 85 61 1 7 16	0	0
59	2A	1	Total C F N O 85 61 1 7 16	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1Y	1	Total Zn 1 1	0	0
60	14	1	Total Zn 1 1	0	0
60	15	1	Total Zn 1 1	0	0
60	16	1	Total Zn 1 1	0	0
60	19	1	Total Zn 1 1	0	0
60	1n	1	Total Zn 1 1	0	0
60	2Y	1	Total Zn 1 1	0	0
60	24	1	Total Zn 1 1	0	0

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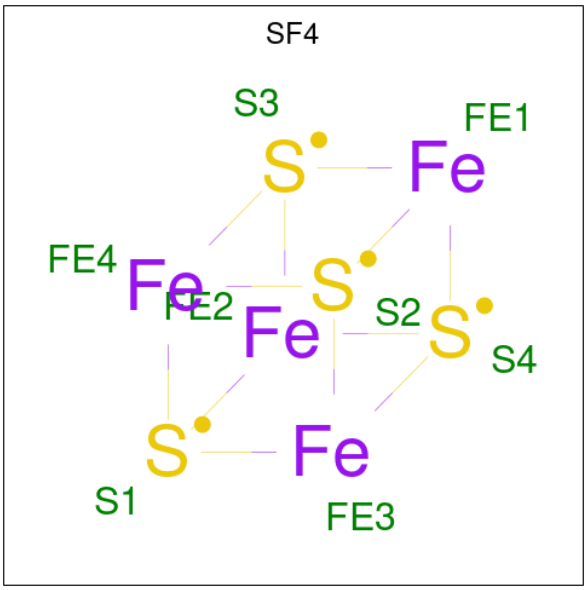
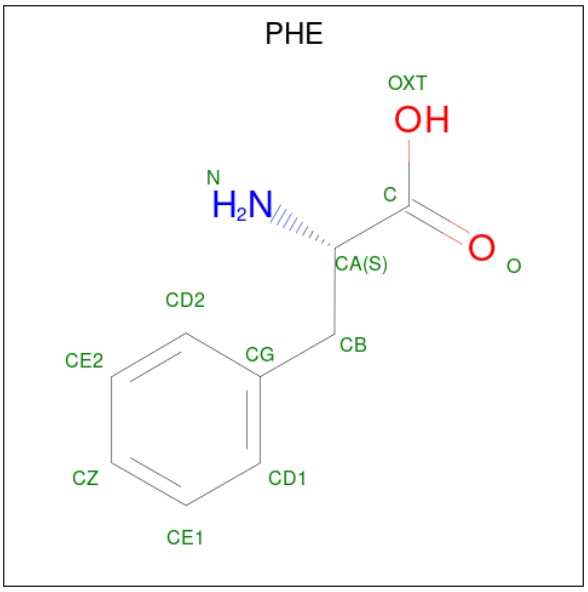
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	25	1	Total Zn 1 1	0	0
60	26	1	Total Zn 1 1	0	0
60	29	1	Total Zn 1 1	0	0
60	2n	1	Total Zn 1 1	0	0

- Molecule 61 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



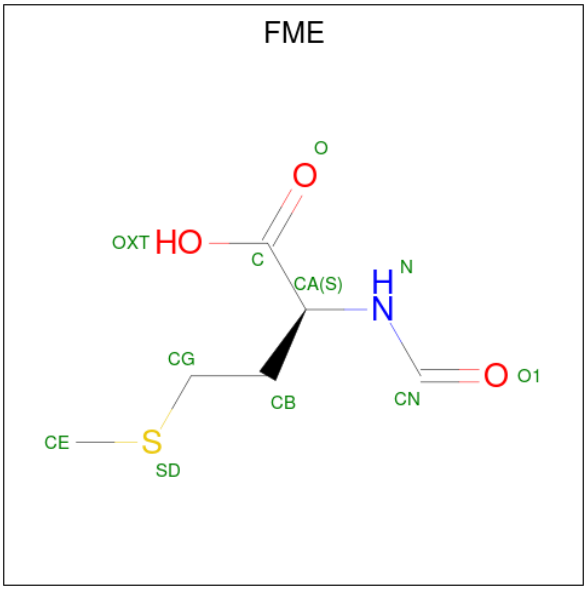
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1d	1	Total Fe S 8 4 4	0	0
61	2d	1	Total Fe S 8 4 4	0	0

- Molecule 62 is PHENYLALANINE (three-letter code: PHE) (formula: $C_9H_{11}NO_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
62	1w	1	Total C N O 11 9 1 1	0	0
62	2w	1	Total C N O 11 9 1 1	0	0

- Molecule 63 is N-FORMYLMETHIONINE (three-letter code: FME) (formula: $C_6H_{11}NO_3S$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	1x	1	Total C N O S 10 6 1 2 1	0	0
63	2x	1	Total C N O S 10 6 1 2 1	0	0

- Molecule 64 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
64	1A	2052	Total O 2052 2052	0	0
64	1B	64	Total O 64 64	0	0
64	1D	31	Total O 31 31	0	0
64	1E	27	Total O 27 27	0	0
64	1F	19	Total O 19 19	0	0
64	1G	3	Total O 3 3	0	0
64	1H	2	Total O 2 2	0	0
64	1N	5	Total O 5 5	0	0
64	1O	6	Total O 6 6	0	0
64	1P	22	Total O 22 22	0	0
64	1Q	9	Total O 9 9	0	0
64	1R	9	Total O 9 9	0	0
64	1S	4	Total O 4 4	0	0
64	1T	8	Total O 8 8	0	0
64	1U	13	Total O 13 13	0	0
64	1V	8	Total O 8 8	0	0
64	1W	8	Total O 8 8	0	0
64	1X	4	Total O 4 4	0	0
64	1Y	2	Total O 2 2	0	0
64	1Z	1	Total O 1 1	0	0
64	10	12	Total O 12 12	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
64	11	9	Total O 9 9	0	0
64	12	3	Total O 3 3	0	0
64	13	4	Total O 4 4	0	0
64	14	1	Total O 1 1	0	0
64	15	6	Total O 6 6	0	0
64	16	2	Total O 2 2	0	0
64	17	9	Total O 9 9	0	0
64	18	10	Total O 10 10	0	0
64	1a	418	Total O 418 418	0	0
64	1b	1	Total O 1 1	0	0
64	1d	3	Total O 3 3	0	0
64	1e	1	Total O 1 1	0	0
64	1f	2	Total O 2 2	0	0
64	1g	1	Total O 1 1	0	0
64	1i	2	Total O 2 2	0	0
64	1j	2	Total O 2 2	0	0
64	1k	1	Total O 1 1	0	0
64	1l	5	Total O 5 5	0	0
64	1m	2	Total O 2 2	0	0
64	1p	1	Total O 1 1	0	0
64	1q	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
64	1r	1	Total O 1 1	0	0
64	1v	4	Total O 4 4	0	0
64	1w	15	Total O 15 15	0	0
64	1x	16	Total O 16 16	0	0
64	1y	1	Total O 1 1	0	0
64	2A	1183	Total O 1183 1183	0	0
64	2B	18	Total O 18 18	0	0
64	2D	22	Total O 22 22	0	0
64	2E	12	Total O 12 12	0	0
64	2F	12	Total O 12 12	0	0
64	2N	2	Total O 2 2	0	0
64	2O	2	Total O 2 2	0	0
64	2P	10	Total O 10 10	0	0
64	2Q	1	Total O 1 1	0	0
64	2R	4	Total O 4 4	0	0
64	2T	6	Total O 6 6	0	0
64	2U	2	Total O 2 2	0	0
64	2W	1	Total O 1 1	0	0
64	2X	2	Total O 2 2	0	0
64	2Y	2	Total O 2 2	0	0
64	20	2	Total O 2 2	0	0

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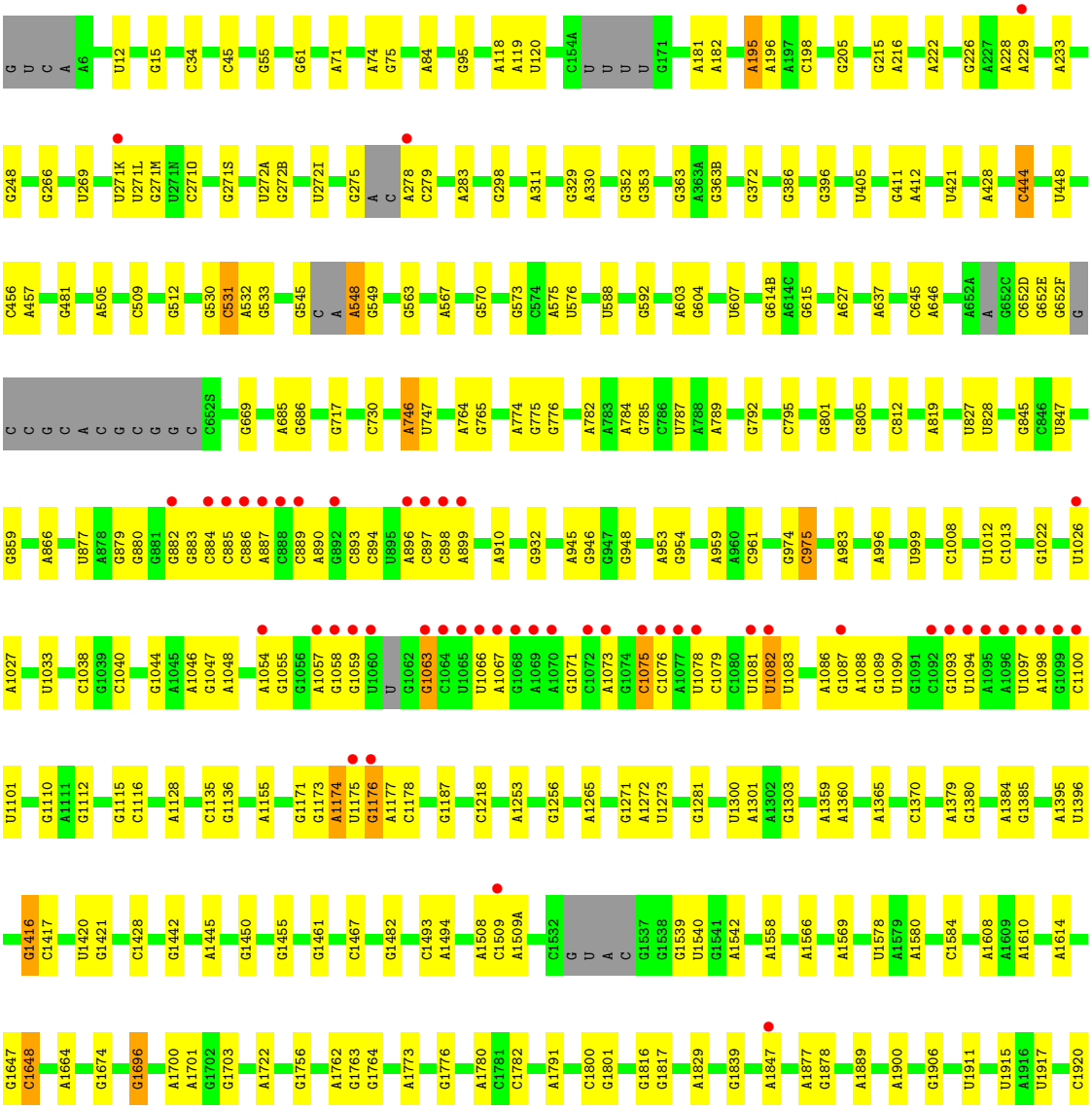
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
64	21	7	Total O 7 7	0	0
64	23	2	Total O 2 2	0	0
64	25	1	Total O 1 1	0	0
64	26	1	Total O 1 1	0	0
64	27	4	Total O 4 4	0	0
64	28	3	Total O 3 3	0	0
64	29	1	Total O 1 1	0	0
64	2a	265	Total O 265 265	0	0
64	2c	2	Total O 2 2	0	0
64	2d	3	Total O 3 3	0	0
64	2e	1	Total O 1 1	0	0
64	2g	1	Total O 1 1	0	0
64	2j	2	Total O 2 2	0	0
64	2l	6	Total O 6 6	0	0
64	2n	1	Total O 1 1	0	0
64	2p	1	Total O 1 1	0	0
64	2r	1	Total O 1 1	0	0
64	2t	5	Total O 5 5	0	0
64	2w	2	Total O 2 2	0	0
64	2x	7	Total O 7 7	0	0
64	2y	3	Total O 3 3	0	0

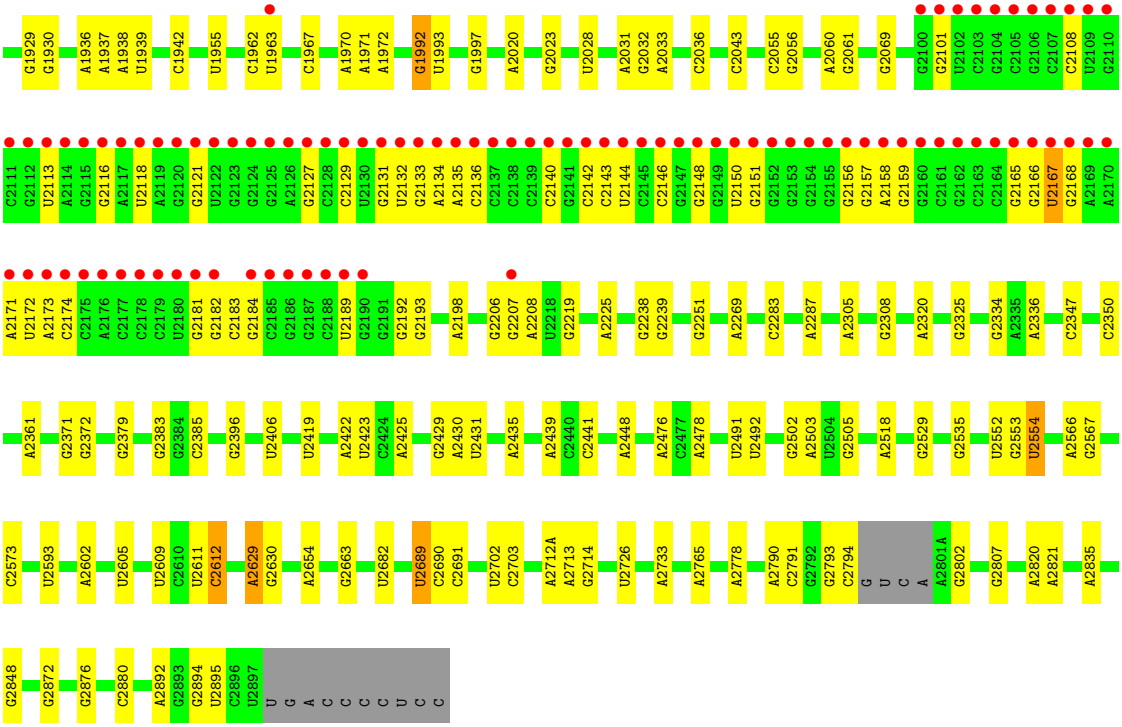
3 Residue-property plots (i)

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

- Molecule 1: 23S Ribosomal RNA

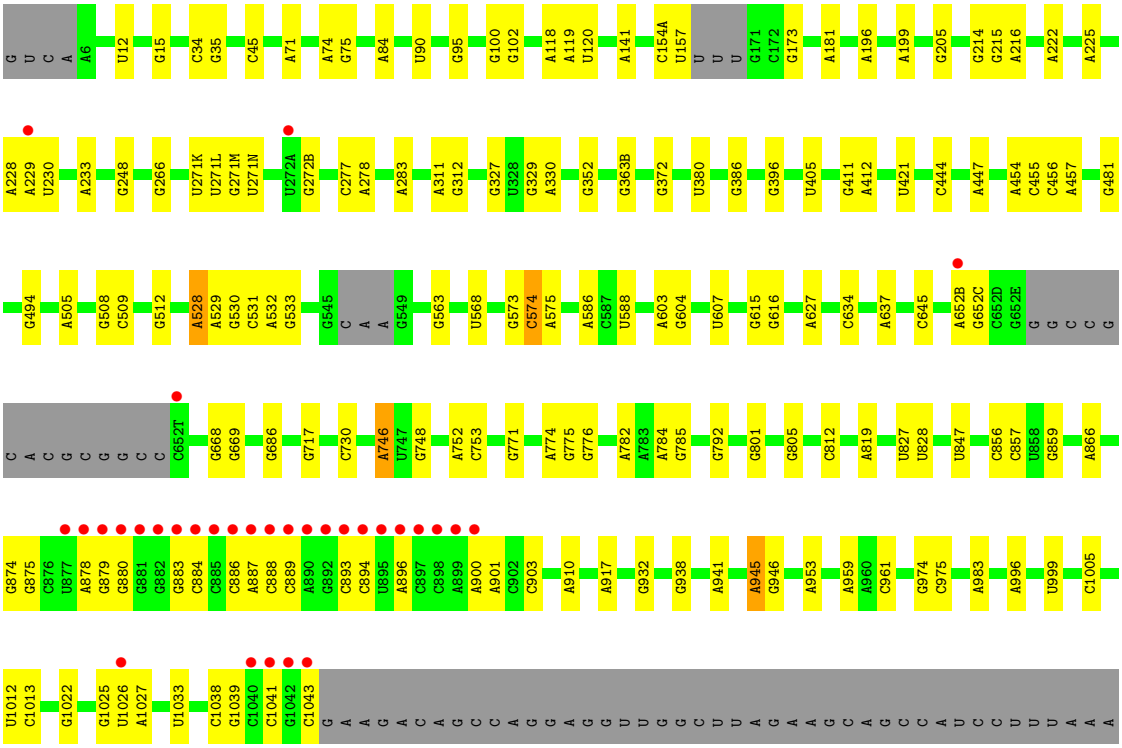
Chain 1A:

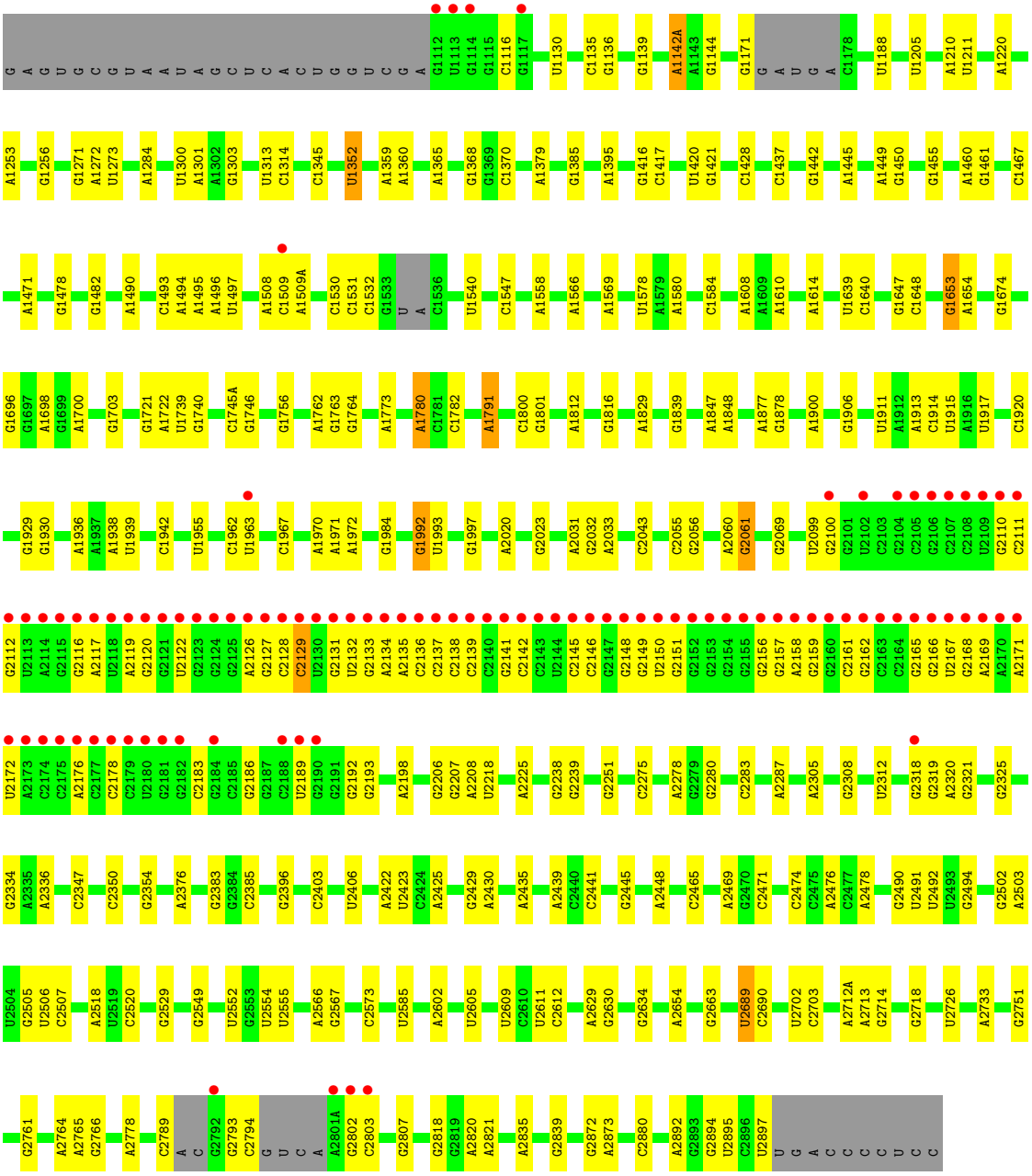




• Molecule 1: 23S Ribosomal RNA

Chain 2A:



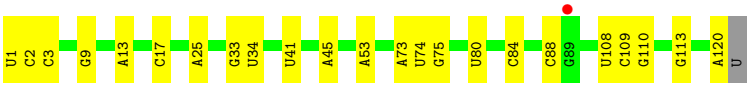


• Molecule 2: 5S Ribosomal RNA

Chain 1B:

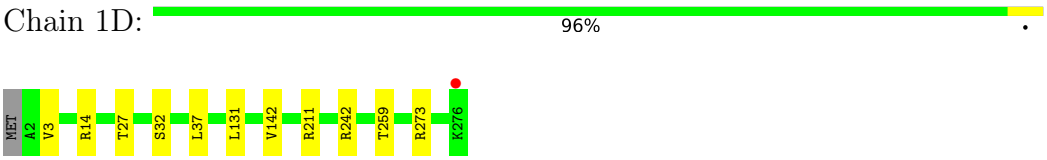
• Molecule 2: 5S Ribosomal RNA

Chain 2B:



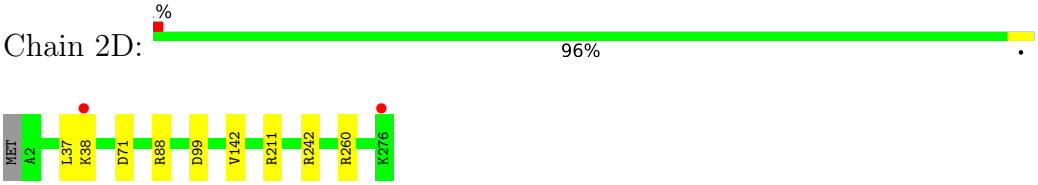
• Molecule 3: 50S ribosomal protein L2

Chain 1D:



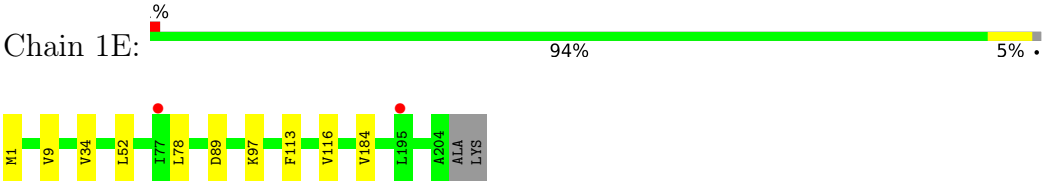
• Molecule 3: 50S ribosomal protein L2

Chain 2D:



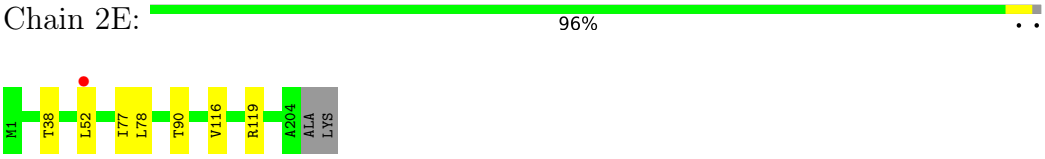
• Molecule 4: 50S ribosomal protein L3

Chain 1E:



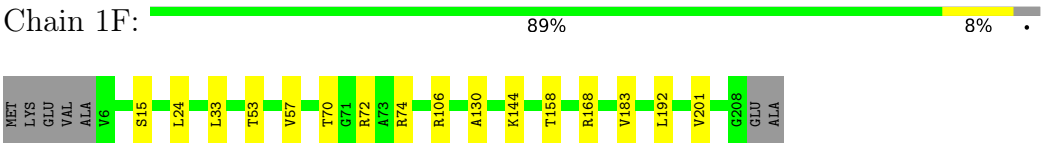
• Molecule 4: 50S ribosomal protein L3

Chain 2E:



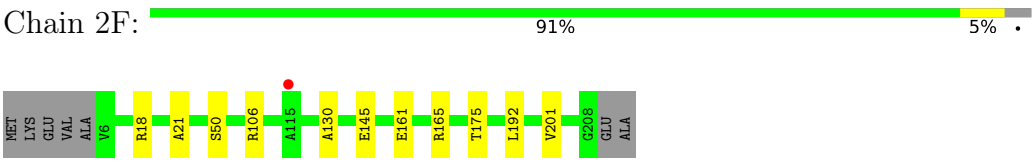
• Molecule 5: 50S ribosomal protein L4

Chain 1F:



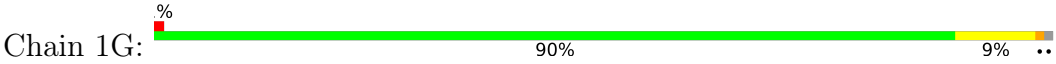
• Molecule 5: 50S ribosomal protein L4

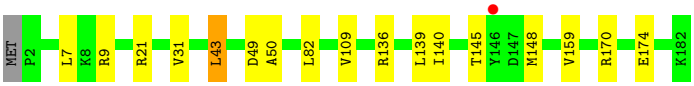
Chain 2F:



• Molecule 6: 50S ribosomal protein L5

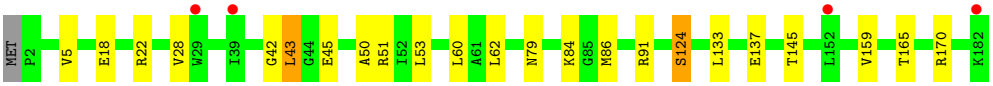
Chain 1G:





• Molecule 6: 50S ribosomal protein L5

Chain 2G:

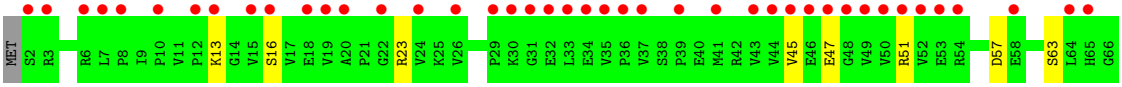


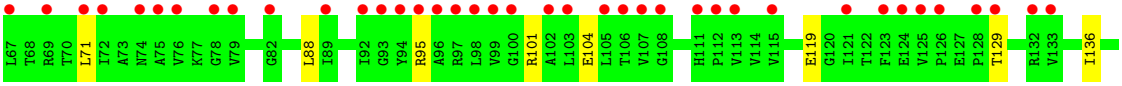
• Molecule 7: 50S ribosomal protein L6

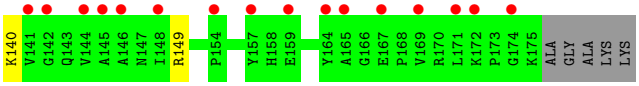
Chain 1H:

• Molecule 7: 50S ribosomal protein L6

Chain 2H:

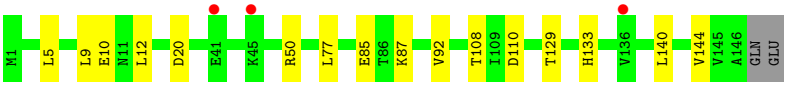






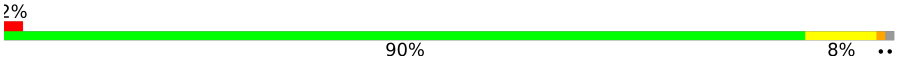
• Molecule 8: 50S ribosomal protein L9

Chain 1I:



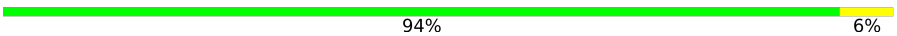
• Molecule 8: 50S ribosomal protein L9

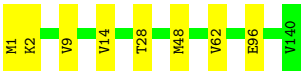
Chain 2I:



• Molecule 9: 50S ribosomal protein L13

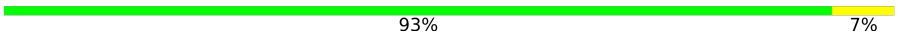
Chain 1N:

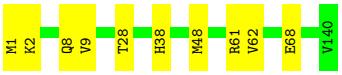




• Molecule 9: 50S ribosomal protein L13

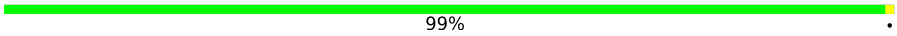
Chain 2N:





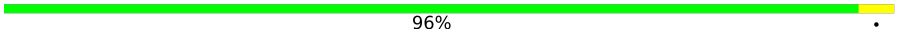
• Molecule 10: 50S ribosomal protein L14

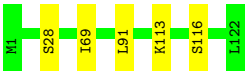
Chain 1O:



• Molecule 10: 50S ribosomal protein L14

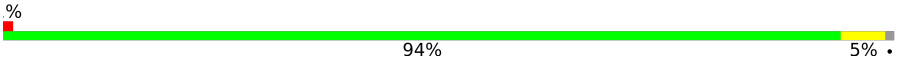
Chain 2O:

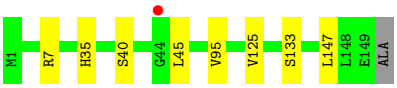




• Molecule 11: 50S ribosomal protein L15

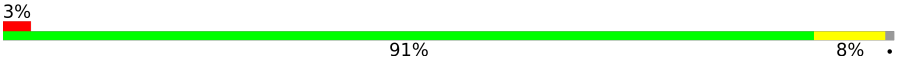
Chain 1P:

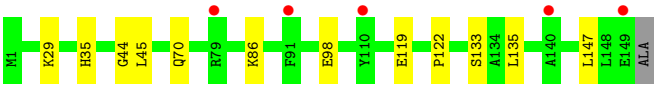




• Molecule 11: 50S ribosomal protein L15

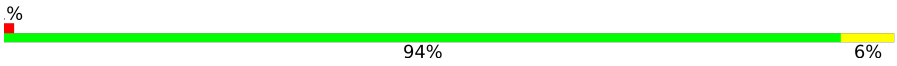
Chain 2P:

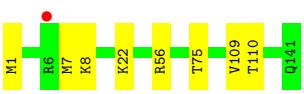




• Molecule 12: 50S ribosomal protein L16

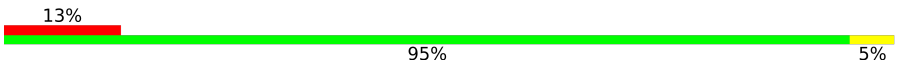
Chain 1Q:

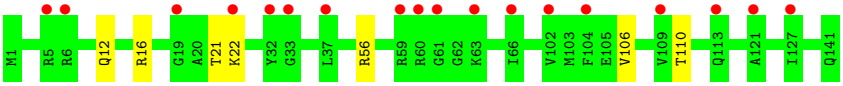




• Molecule 12: 50S ribosomal protein L16

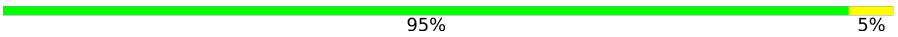
Chain 2Q:





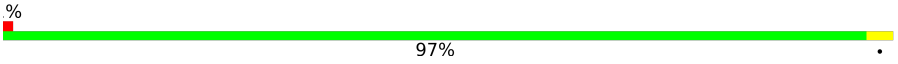
• Molecule 13: 50S ribosomal protein L17

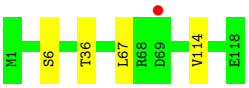
Chain 1R:



• Molecule 13: 50S ribosomal protein L17

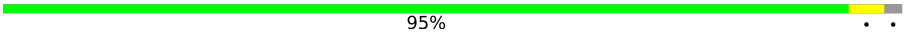
Chain 2R:





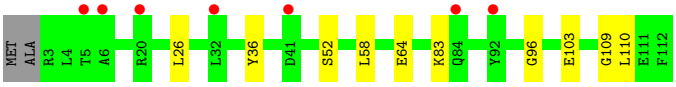
• Molecule 14: 50S ribosomal protein L18

Chain 1S:



• Molecule 14: 50S ribosomal protein L18

Chain 2S:



• Molecule 15: 50S ribosomal protein L19

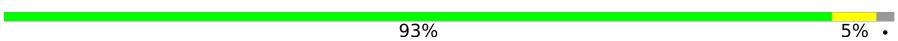
Chain 1T:

• Molecule 15: 50S ribosomal protein L19

Chain 2T:

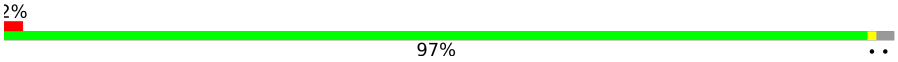
• Molecule 16: 50S ribosomal protein L20

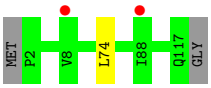
Chain 1U:



• Molecule 16: 50S ribosomal protein L20

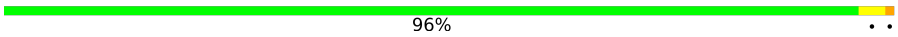
Chain 2U:





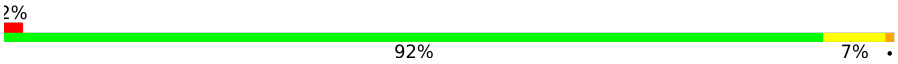
• Molecule 17: 50S ribosomal protein L21

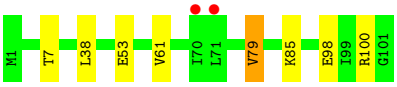
Chain 1V:



• Molecule 17: 50S ribosomal protein L21

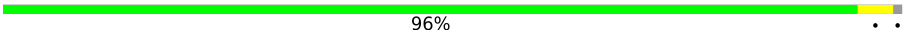
Chain 2V:





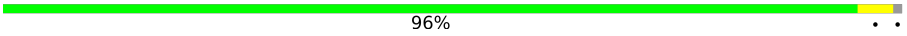
• Molecule 18: 50S ribosomal protein L22

Chain 1W:



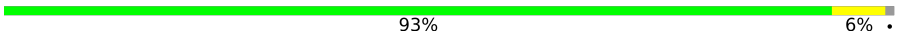
• Molecule 18: 50S ribosomal protein L22

Chain 2W:



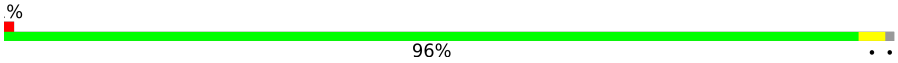
• Molecule 19: 50S ribosomal protein L23

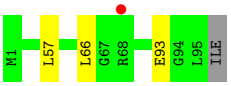
Chain 1X:



• Molecule 19: 50S ribosomal protein L23

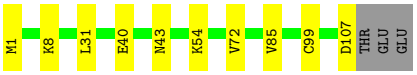
Chain 2X:





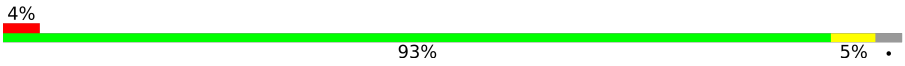
• Molecule 20: 50S ribosomal protein L24

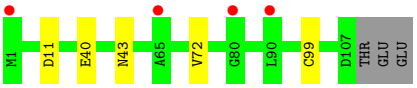
Chain 1Y:



• Molecule 20: 50S ribosomal protein L24

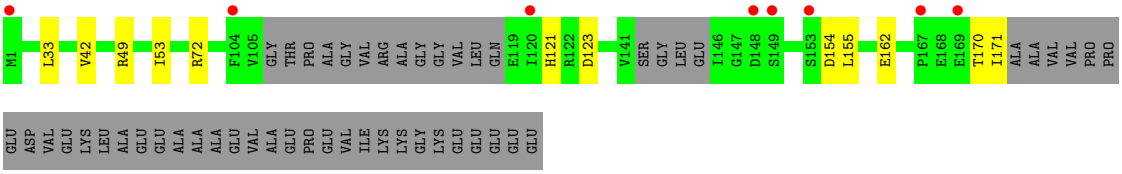
Chain 2Y:





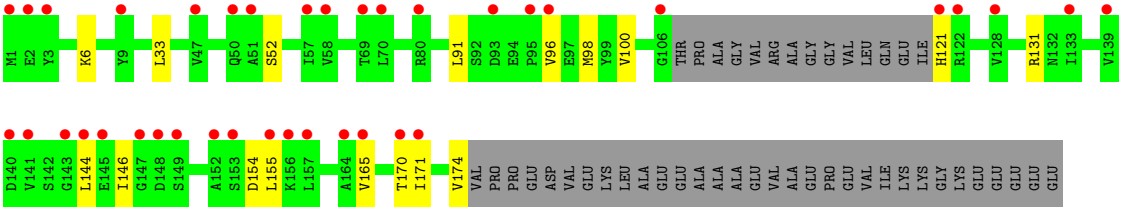
• Molecule 21: 50S ribosomal protein L25

Chain 1Z:



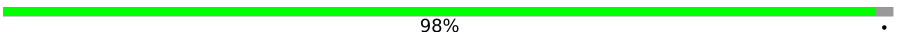
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:



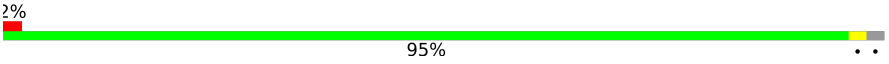
• Molecule 22: 50S ribosomal protein L27

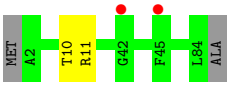
Chain 10:



• Molecule 22: 50S ribosomal protein L27

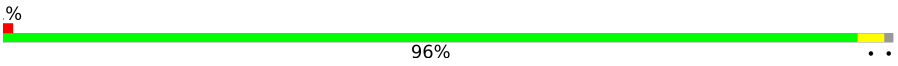
Chain 20:





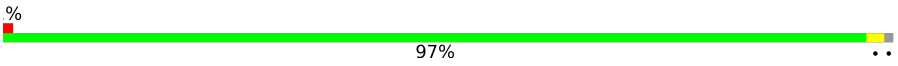
• Molecule 23: 50S ribosomal protein L28

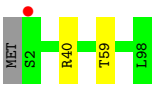
Chain 11:



• Molecule 23: 50S ribosomal protein L28

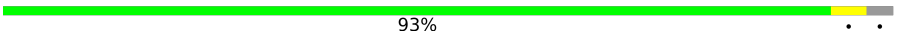
Chain 21:

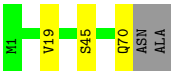




• Molecule 24: 50S ribosomal protein L29

Chain 12:



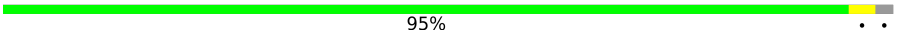


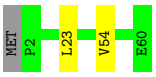
• Molecule 24: 50S ribosomal protein L29

Chain 22:

• Molecule 25: 50S ribosomal protein L30

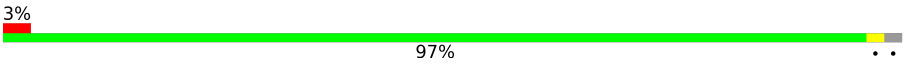
Chain 13:

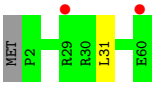




• Molecule 25: 50S ribosomal protein L30

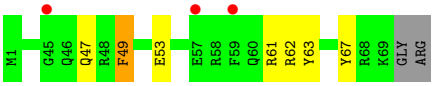
Chain 23:





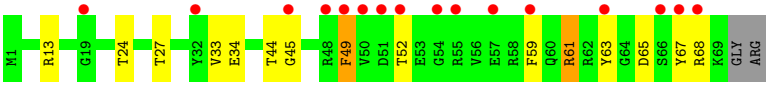
• Molecule 26: 50S ribosomal protein L31

Chain 14:



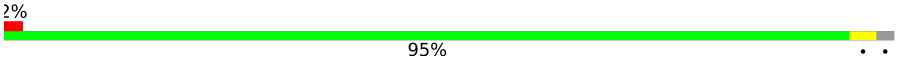
• Molecule 26: 50S ribosomal protein L31

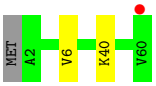
Chain 24:



• Molecule 27: 50S ribosomal protein L32

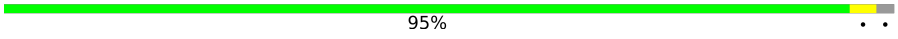
Chain 15:

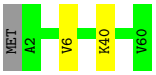




• Molecule 27: 50S ribosomal protein L32

Chain 25:





• Molecule 28: 50S ribosomal protein L33

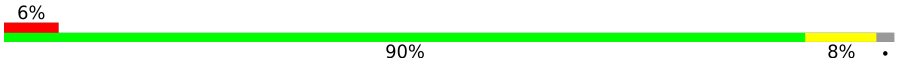
Chain 16:

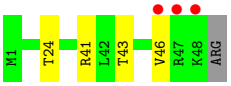
• Molecule 28: 50S ribosomal protein L33

Chain 26:

• Molecule 29: 50S ribosomal protein L34

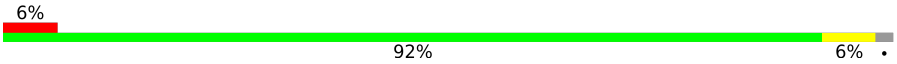
Chain 17:

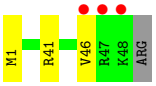




• Molecule 29: 50S ribosomal protein L34

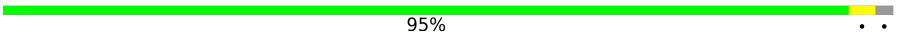
Chain 27:

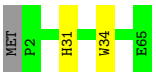




• Molecule 30: 50S ribosomal protein L35

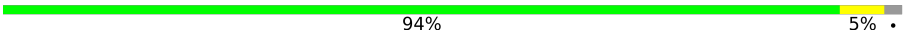
Chain 18:





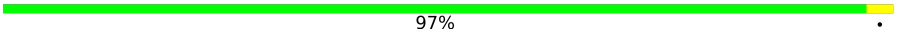
• Molecule 30: 50S ribosomal protein L35

Chain 28:



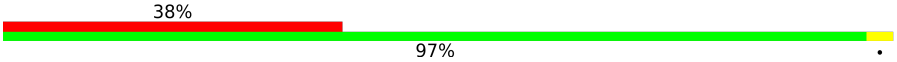
• Molecule 31: 50S ribosomal protein L36

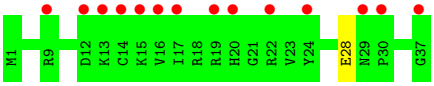
Chain 19:



• Molecule 31: 50S ribosomal protein L36

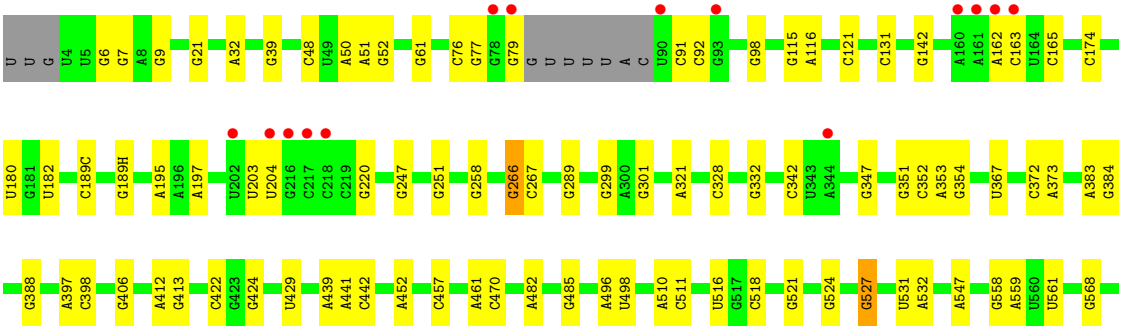
Chain 29:

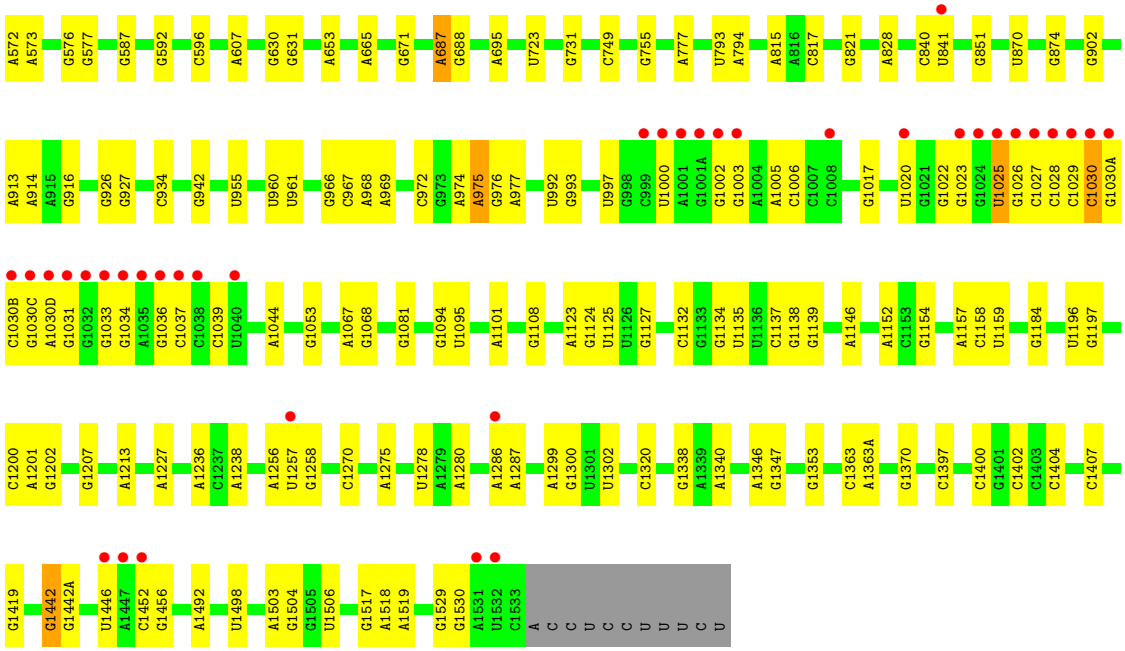




• Molecule 32: 16S Ribosomal RNA

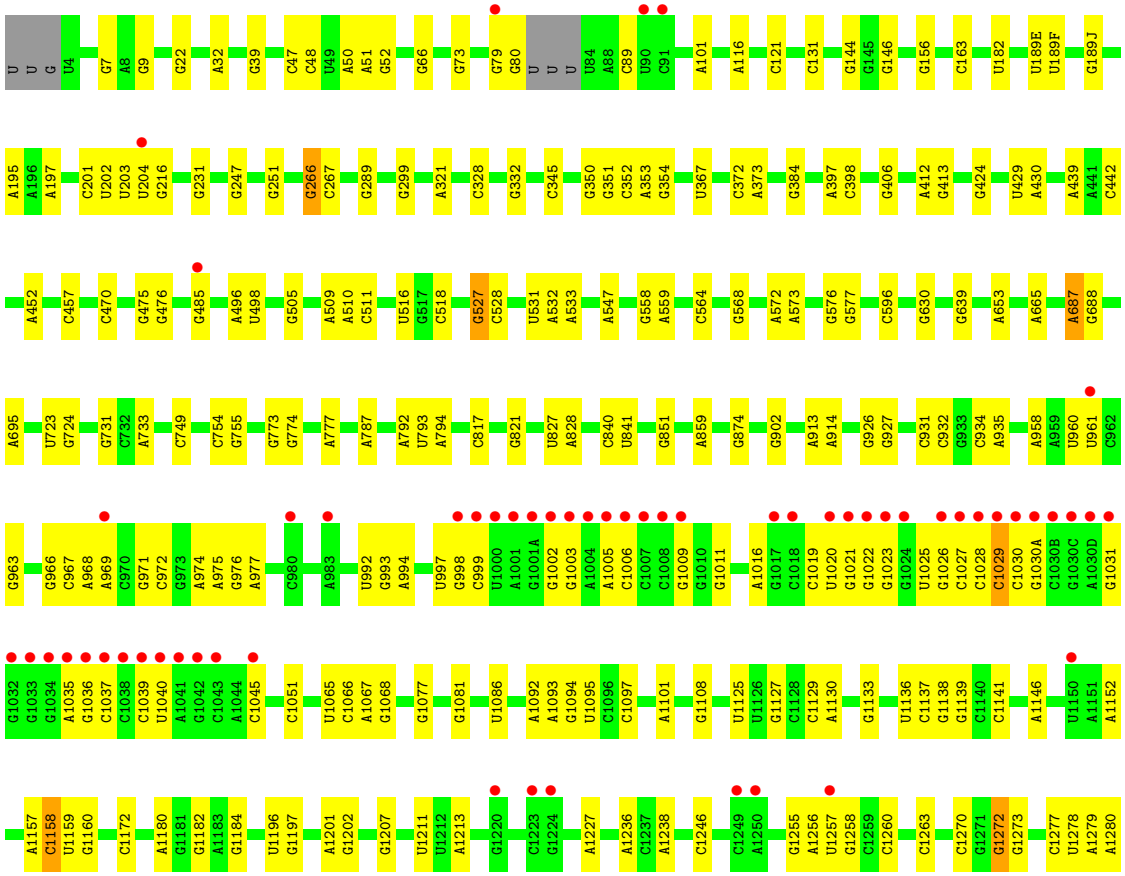
Chain 1a:

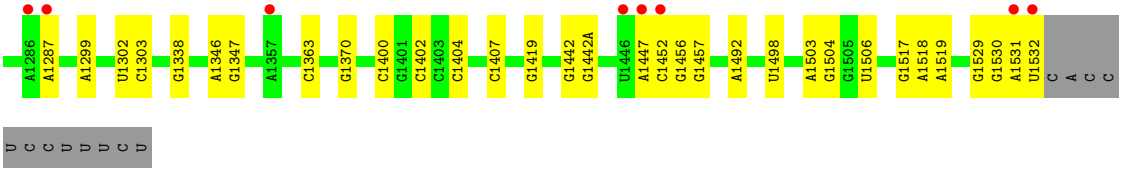




• Molecule 32: 16S Ribosomal RNA

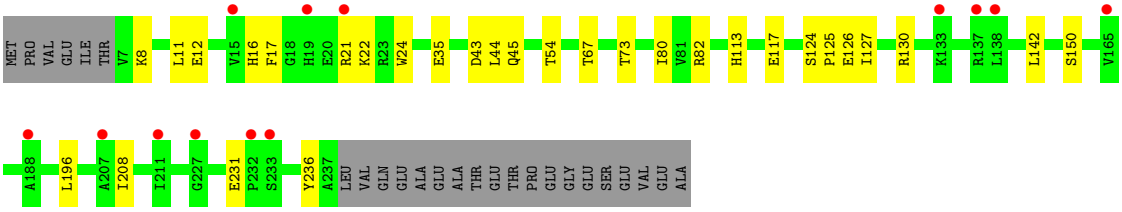
Chain 2a:





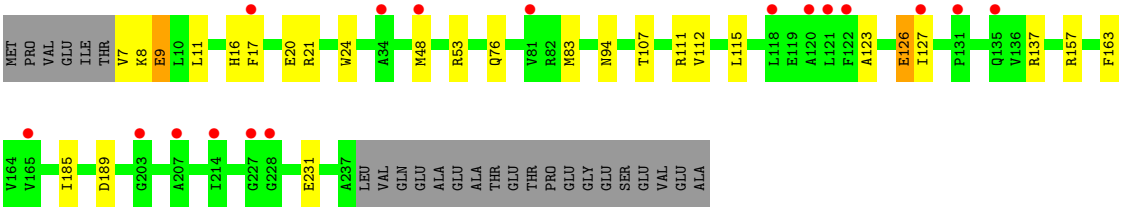
• Molecule 33: 30S ribosomal protein S2

Chain 1b:



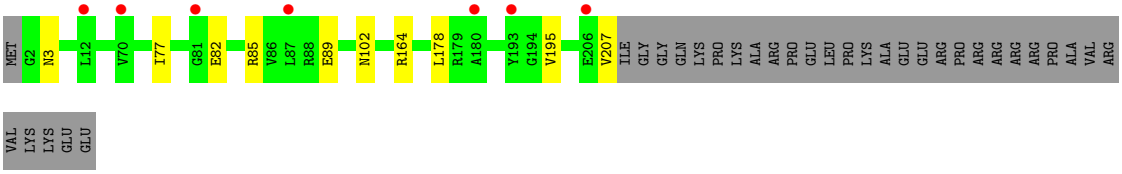
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



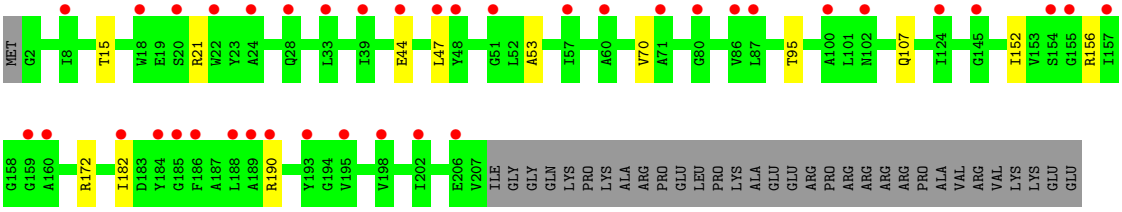
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



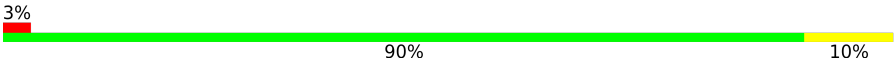
• Molecule 34: 30S ribosomal protein S3

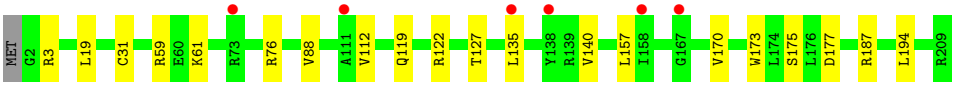
Chain 2c:



• Molecule 35: 30S ribosomal protein S4

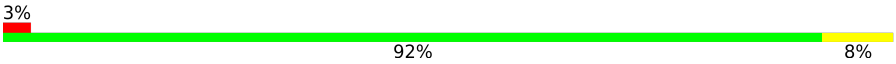
Chain 1d:

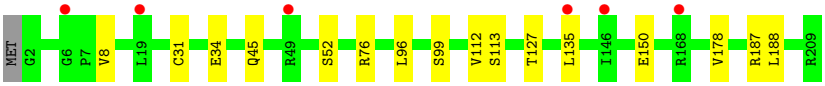




• Molecule 35: 30S ribosomal protein S4

Chain 2d:



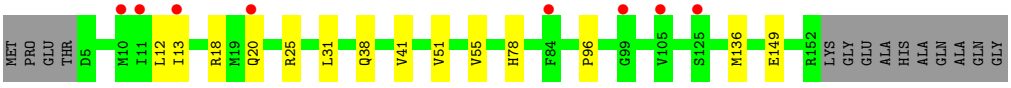


• Molecule 36: 30S ribosomal protein S5

Chain 1e:

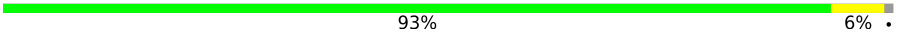
• Molecule 36: 30S ribosomal protein S5

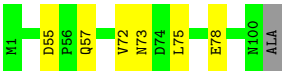
Chain 2e:



• Molecule 37: 30S ribosomal protein S6

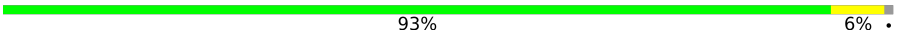
Chain 1f:

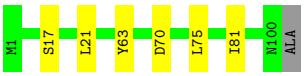




• Molecule 37: 30S ribosomal protein S6

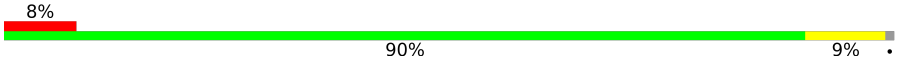
Chain 2f:

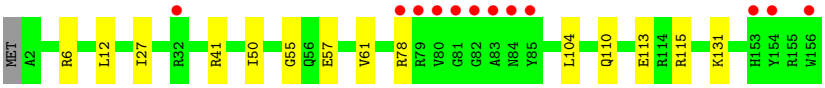




• Molecule 38: 30S ribosomal protein S7

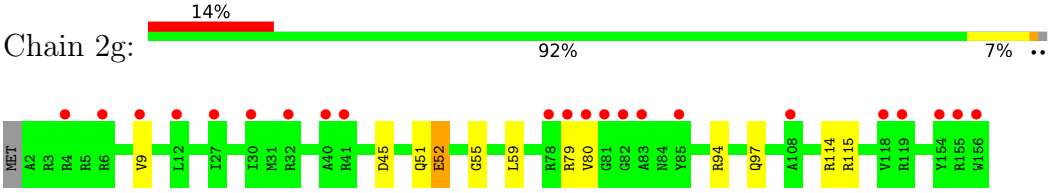
Chain 1g:





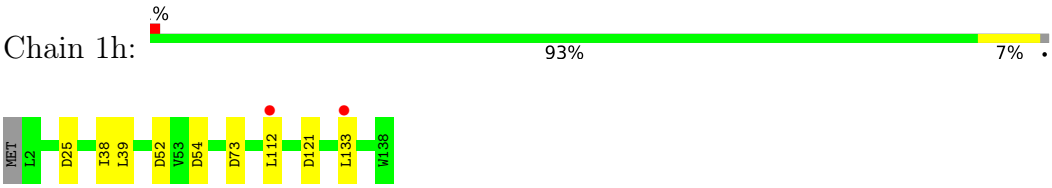
• Molecule 38: 30S ribosomal protein S7

Chain 2g:



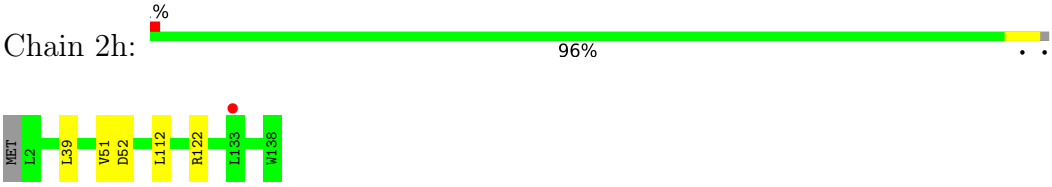
• Molecule 39: 30S ribosomal protein S8

Chain 1h:



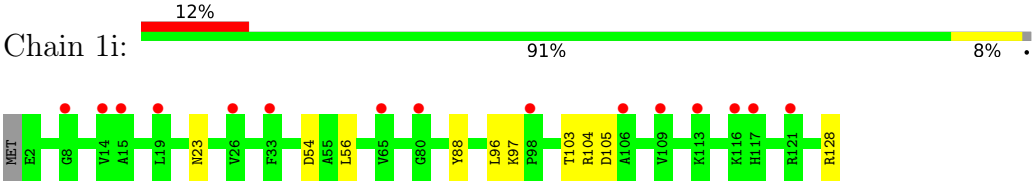
• Molecule 39: 30S ribosomal protein S8

Chain 2h:



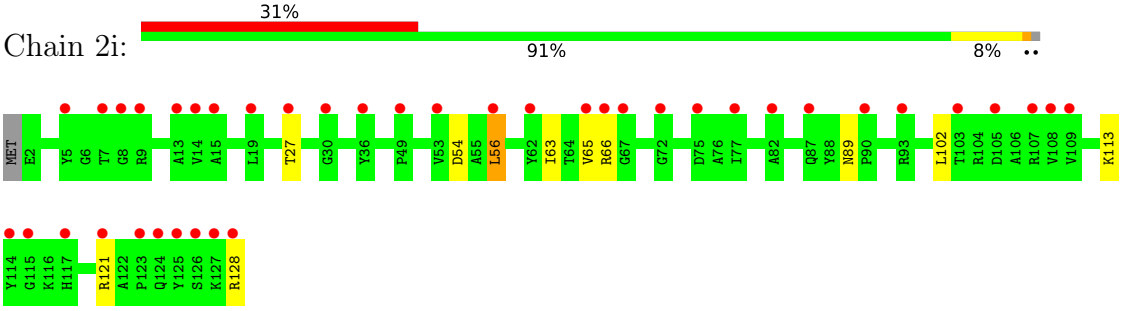
• Molecule 40: 30S ribosomal protein S9

Chain 1i:



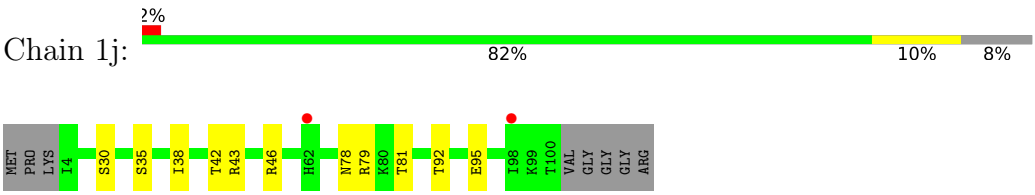
• Molecule 40: 30S ribosomal protein S9

Chain 2i:



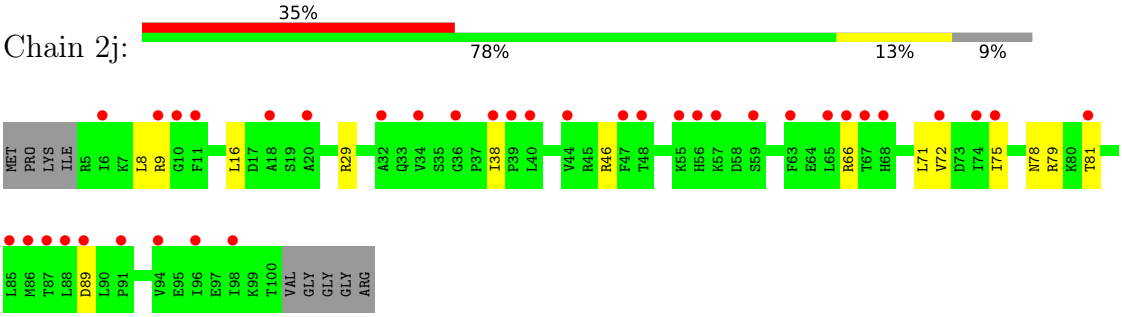
• Molecule 41: 30S ribosomal protein S10

Chain 1j:



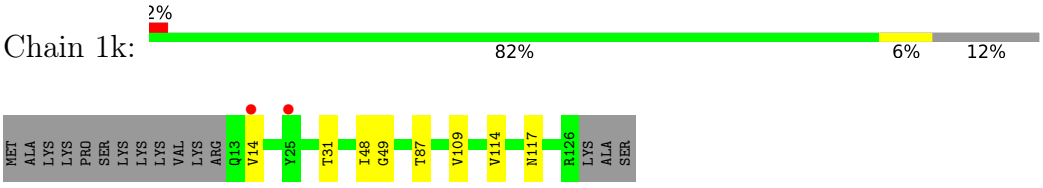
• Molecule 41: 30S ribosomal protein S10

Chain 2j:



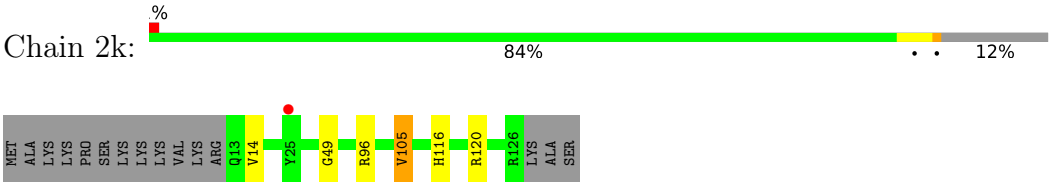
• Molecule 42: 30S ribosomal protein S11

Chain 1k:



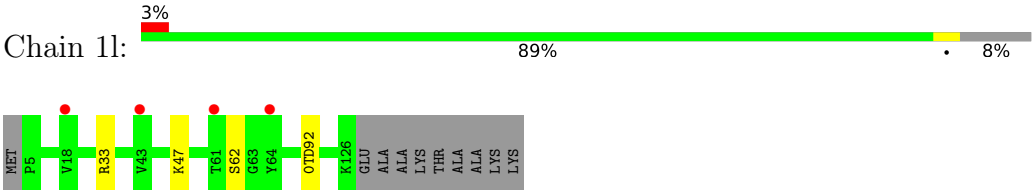
• Molecule 42: 30S ribosomal protein S11

Chain 2k:



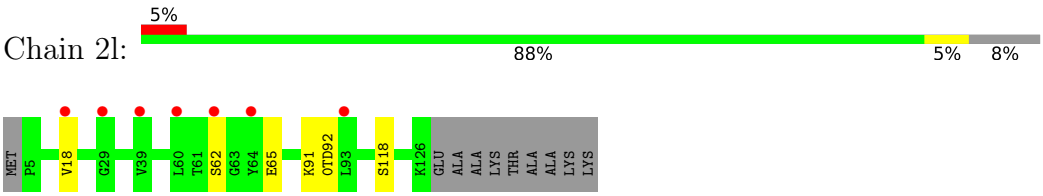
• Molecule 43: 30S ribosomal protein S12

Chain 1l:



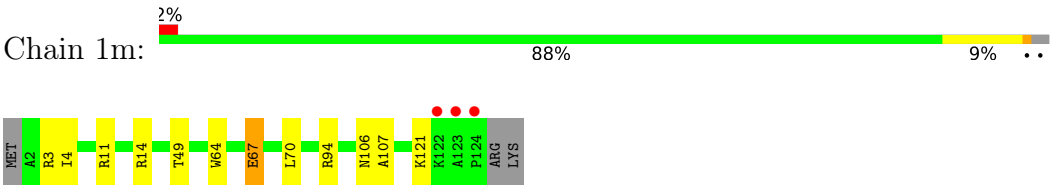
• Molecule 43: 30S ribosomal protein S12

Chain 2l:



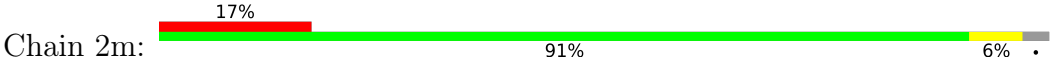
• Molecule 44: 30S ribosomal protein S13

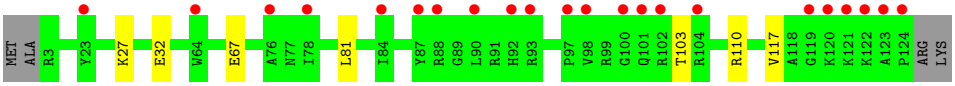
Chain 1m:



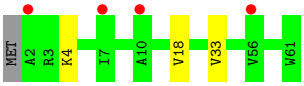
• Molecule 44: 30S ribosomal protein S13

Chain 2m:

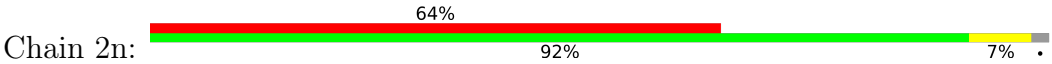


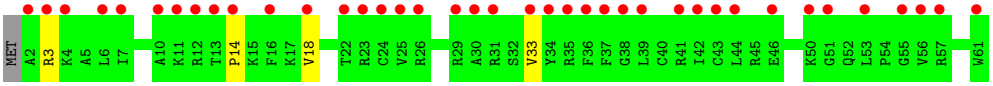


• Molecule 45: 30S ribosomal protein S14 type Z

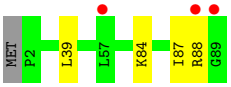


• Molecule 45: 30S ribosomal protein S14 type Z

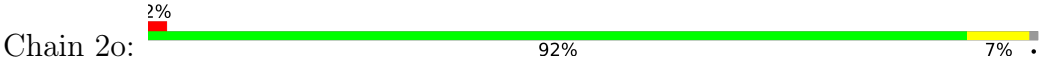


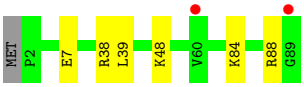


• Molecule 46: 30S ribosomal protein S15

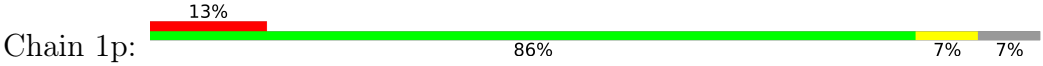


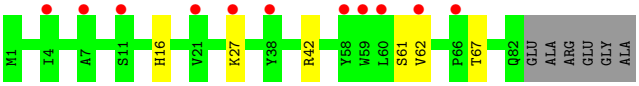
• Molecule 46: 30S ribosomal protein S15



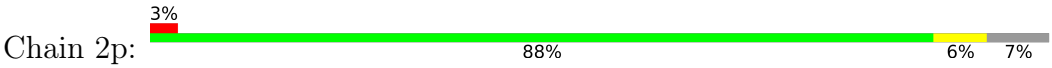


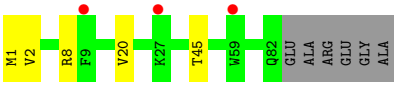
• Molecule 47: 30S ribosomal protein S16





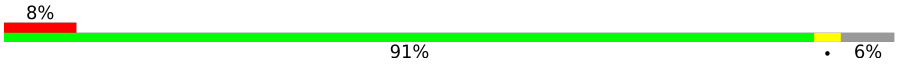
• Molecule 47: 30S ribosomal protein S16

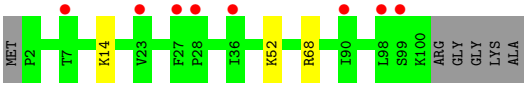




• Molecule 48: 30S ribosomal protein S17

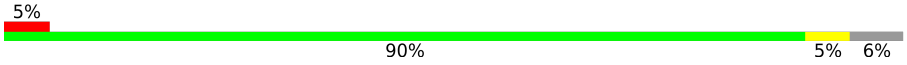
Chain 1q:

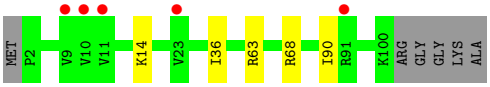




• Molecule 48: 30S ribosomal protein S17

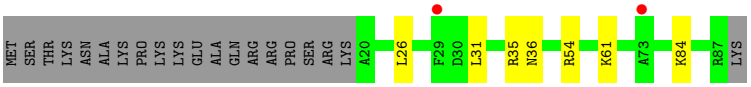
Chain 2q:





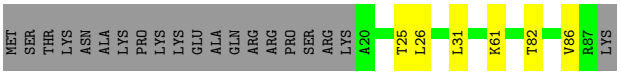
• Molecule 49: 30S ribosomal protein S18

Chain 1r:



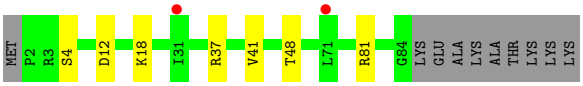
• Molecule 49: 30S ribosomal protein S18

Chain 2r:



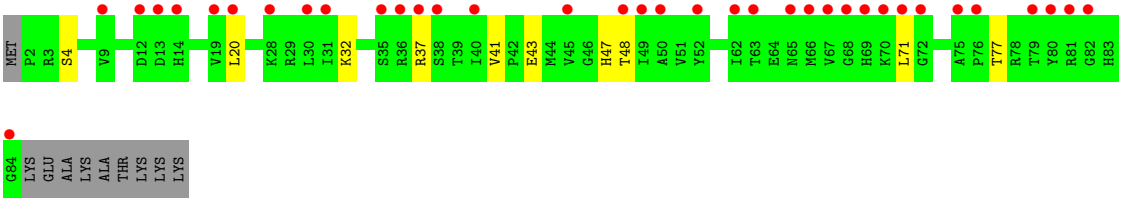
• Molecule 50: 30S ribosomal protein S19

Chain 1s:



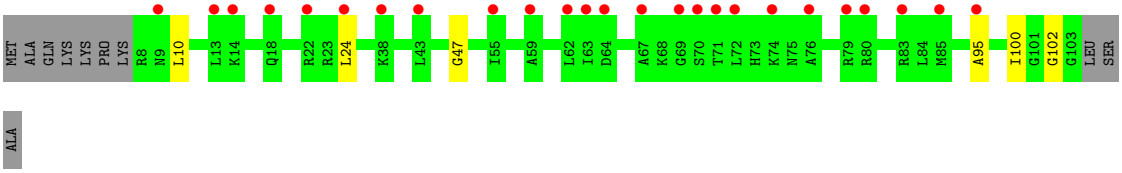
• Molecule 50: 30S ribosomal protein S19

Chain 2s:



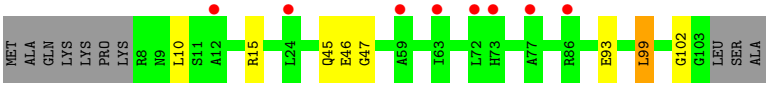
• Molecule 51: 30S ribosomal protein S20

Chain 1t:



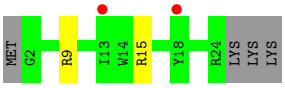
• Molecule 51: 30S ribosomal protein S20

Chain 2t:



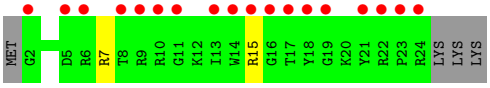
• Molecule 52: 30S ribosomal protein Thx

Chain 1u:



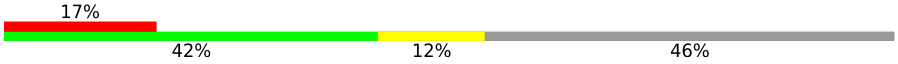
• Molecule 52: 30S ribosomal protein Thx

Chain 2u:



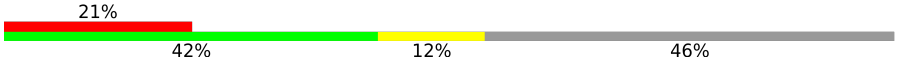
• Molecule 53: MF-mRNA

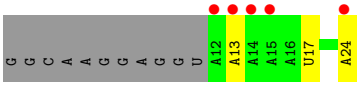
Chain 1v:



• Molecule 53: MF-mRNA

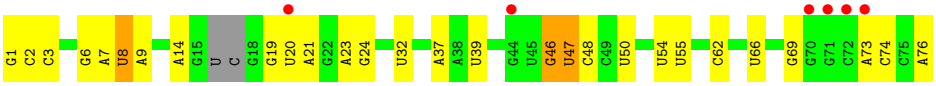
Chain 2v:





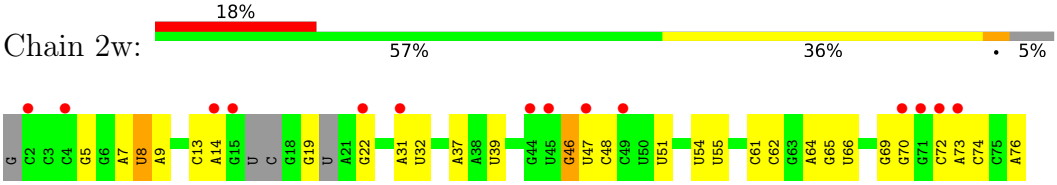
• Molecule 54: Aminoacylated Phe-tRNAphe

Chain 1w:



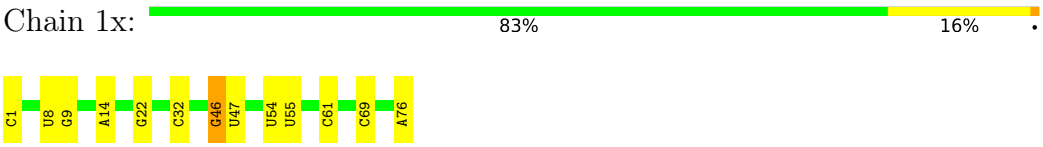
• Molecule 54: Aminoacylated Phe-tRNAphe

Chain 2w:



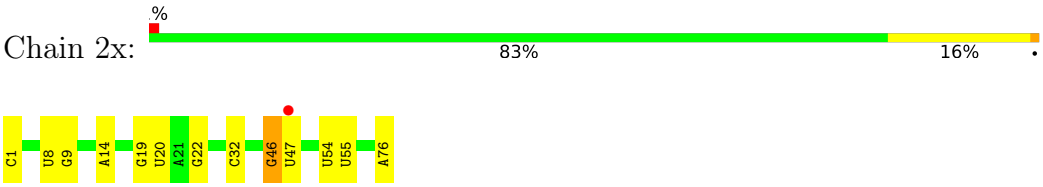
• Molecule 55: Aminoacylated fMet-tRNAmet

Chain 1x:



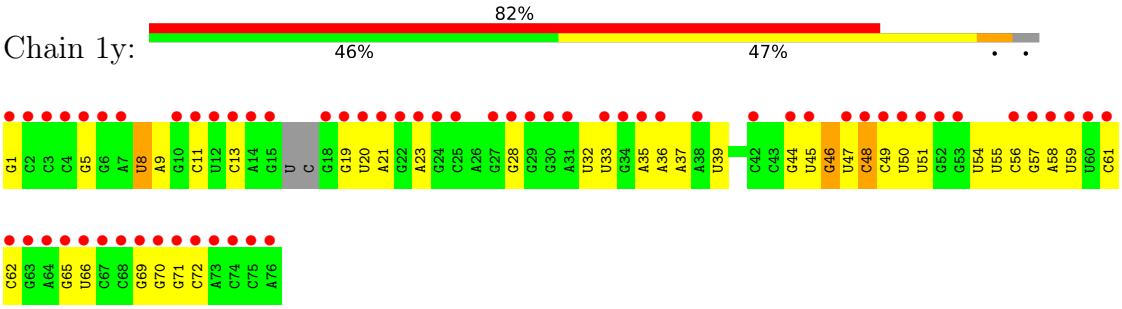
• Molecule 55: Aminoacylated fMet-tRNAmet

Chain 2x:



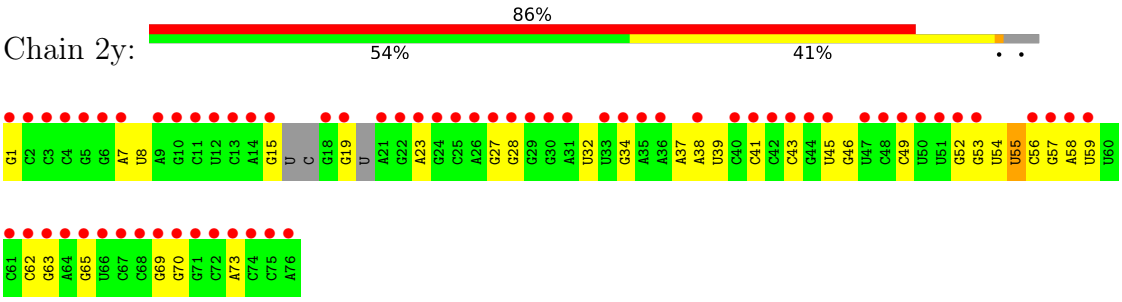
• Molecule 56: Deacylated tRNAphe

Chain 1y:



• Molecule 56: Deacylated tRNAphe

Chain 2y:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	209.98Å 450.78Å 623.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	107.27 – 2.40 190.34 – 2.40	Depositor EDS
% Data completeness (in resolution range)	98.9 (107.27-2.40) 98.9 (190.34-2.40)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.15 (at 2.40Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.221 , 0.260 0.221 , 0.260	Depositor DCC
R_{free} test set	112480 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å^2)	47.1	Xtriage
Anisotropy	0.130	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 46.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.23$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	300455	wwPDB-VP
Average B, all atoms (Å^2)	52.0	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.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: UR3, FME, 5MU, OMC, ZN, G7M, 8AN, A1AEZ, 2MG, 5MC, 0TD, 2MA, M2G, 4SU, PSU, MG, K, OMG, OMU, 4OC, SF4, MA6, MIA

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	0.48	0/69011	0.95	73/107720 (0.1%)
1	2A	0.38	0/67295	0.85	34/105042 (0.0%)
2	1B	0.43	1/2882 (0.0%)	0.82	0/4494
2	2B	0.39	1/2879 (0.0%)	0.84	2/4487 (0.0%)
3	1D	0.35	0/2186	0.56	0/2944
3	2D	0.32	0/2186	0.51	0/2944
4	1E	0.33	0/1592	0.54	0/2149
4	2E	0.29	0/1592	0.51	0/2149
5	1F	0.32	0/1619	0.54	0/2193
5	2F	0.29	0/1615	0.49	0/2188
6	1G	0.29	0/1448	0.52	0/1957
6	2G	0.28	0/1453	0.45	0/1963
7	1H	0.31	0/1356	0.50	0/1834
7	2H	0.29	0/1356	0.46	0/1834
8	1I	0.28	0/1112	0.47	0/1514
8	2I	0.28	0/1079	0.48	0/1475
9	1N	0.32	0/1144	0.50	0/1543
9	2N	0.28	0/1144	0.44	0/1543
10	1O	0.33	0/943	0.53	0/1269
10	2O	0.30	0/943	0.51	0/1269
11	1P	0.31	0/1152	0.60	0/1533
11	2P	0.31	0/1152	0.53	0/1533
12	1Q	0.34	0/1143	0.54	0/1527
12	2Q	0.29	0/1143	0.47	0/1527
13	1R	0.31	0/982	0.53	0/1312
13	2R	0.26	0/982	0.49	0/1312
14	1S	0.31	0/883	0.52	0/1176
14	2S	0.29	0/880	0.49	0/1172
15	1T	0.31	0/1105	0.51	0/1477
15	2T	0.29	0/1097	0.46	0/1468
16	1U	0.37	0/977	0.52	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
16	2U	0.29	0/977	0.44	0/1301
17	1V	0.32	0/782	0.56	0/1049
17	2V	0.30	0/782	0.51	0/1049
18	1W	0.33	0/897	0.52	0/1205
18	2W	0.30	0/897	0.47	0/1205
19	1X	0.37	0/764	0.57	0/1025
19	2X	0.31	0/764	0.52	0/1025
20	1Y	0.32	0/819	0.53	0/1095
20	2Y	0.31	0/819	0.48	0/1095
21	1Z	0.30	0/1267	0.51	0/1717
21	2Z	0.30	0/1299	0.49	0/1763
22	10	0.32	0/662	0.53	0/881
22	20	0.30	0/662	0.49	0/881
23	11	0.32	0/762	0.50	0/1014
23	21	0.31	0/762	0.50	0/1014
24	12	0.31	0/590	0.48	0/781
24	22	0.28	0/590	0.40	0/781
25	13	0.32	0/474	0.53	0/635
25	23	0.27	0/469	0.43	0/630
26	14	0.33	0/565	0.54	0/761
26	24	0.32	0/545	0.53	0/737
27	15	0.32	0/469	0.56	0/635
27	25	0.26	0/469	0.49	0/635
28	16	0.33	0/460	0.52	0/613
28	26	0.30	0/456	0.51	0/608
29	17	0.34	0/426	0.55	0/561
29	27	0.28	0/426	0.49	0/561
30	18	0.32	0/525	0.52	0/691
30	28	0.28	0/525	0.49	0/691
31	19	0.34	0/310	0.53	0/407
31	29	0.29	0/310	0.52	0/407
32	1a	0.35	0/35795	0.85	25/55864 (0.0%)
32	2a	0.35	3/35886 (0.0%)	0.88	31/56005 (0.1%)
33	1b	0.29	0/1881	0.50	0/2542
33	2b	0.29	0/1860	0.48	0/2518
34	1c	0.29	0/1572	0.46	0/2126
34	2c	0.29	0/1566	0.47	0/2119
35	1d	0.28	0/1685	0.45	0/2262
35	2d	0.29	0/1704	0.45	0/2284
36	1e	0.29	0/1145	0.51	0/1543
36	2e	0.29	0/1149	0.50	0/1548
37	1f	0.27	0/823	0.48	0/1115
37	2f	0.29	0/829	0.49	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	1g	0.28	0/1250	0.44	0/1679
38	2g	0.28	0/1254	0.45	0/1683
39	1h	0.28	0/1108	0.47	0/1494
39	2h	0.27	0/1108	0.46	0/1494
40	1i	0.28	0/1002	0.50	0/1346
40	2i	0.30	0/997	0.49	0/1343
41	1j	0.27	0/722	0.49	0/982
41	2j	0.29	0/727	0.52	0/988
42	1k	0.29	0/844	0.48	0/1145
42	2k	0.27	0/848	0.46	0/1149
43	1l	0.30	0/937	0.51	0/1260
43	2l	0.28	0/937	0.48	0/1260
44	1m	0.28	0/969	0.50	0/1302
44	2m	0.28	0/961	0.47	0/1291
45	1n	0.31	0/501	0.44	0/664
45	2n	0.30	0/501	0.47	0/664
46	1o	0.27	0/739	0.44	0/985
46	2o	0.26	0/739	0.44	0/985
47	1p	0.28	0/697	0.49	0/939
47	2p	0.26	0/693	0.50	0/935
48	1q	0.28	0/836	0.48	0/1117
48	2q	0.29	0/836	0.48	0/1117
49	1r	0.27	0/560	0.45	0/746
49	2r	0.27	0/560	0.44	0/746
50	1s	0.26	0/667	0.53	0/900
50	2s	0.31	0/661	0.55	0/893
51	1t	0.27	0/730	0.43	0/965
51	2t	0.27	0/729	0.46	1/965 (0.1%)
52	1u	0.28	0/203	0.46	0/266
52	2u	0.28	0/203	0.48	0/266
53	1v	0.45	0/310	0.88	0/480
53	2v	0.43	0/310	0.85	0/480
54	1w	0.49	1/1581 (0.1%)	1.02	1/2458 (0.0%)
54	2w	0.42	0/1531	0.98	1/2379 (0.0%)
55	1x	0.60	4/1723 (0.2%)	1.13	20/2684 (0.7%)
55	2x	0.53	1/1723 (0.1%)	1.06	17/2684 (0.6%)
56	1y	0.60	1/1606 (0.1%)	1.11	4/2497 (0.2%)
56	2y	0.57	1/1583 (0.1%)	0.99	0/2459
All	All	0.38	13/316636 (0.0%)	0.81	209/474041 (0.0%)

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

sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
11	1P	0	1
11	2P	0	1
All	All	0	2

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	1x	1	C	OP3-P	-10.51	1.48	1.61
2	1B	1	U	OP3-P	-10.26	1.48	1.61
56	1y	1	G	OP3-P	-10.18	1.49	1.61
54	1w	1	G	OP3-P	-10.13	1.49	1.61
55	2x	1	C	OP3-P	-10.05	1.49	1.61
56	2y	1	G	OP3-P	-10.02	1.49	1.61
32	2a	1272	G	N1-C2	-9.95	1.29	1.37
2	2B	1	U	OP3-P	-9.91	1.49	1.61
32	2a	1272	G	C6-N1	-9.33	1.33	1.39
32	2a	1263	C	N3-C4	-6.38	1.29	1.33
55	1x	22	G	C8-N7	5.60	1.34	1.30
55	1x	14	A	N7-C5	-5.59	1.35	1.39
55	1x	14	A	C8-N7	-5.34	1.27	1.31

All (209) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1263	C	N1-C2-O2	28.66	136.09	118.90
32	2a	1272	G	N3-C2-N2	23.03	136.02	119.90
32	2a	1272	G	C5-C6-O6	21.62	141.57	128.60
32	2a	1272	G	N1-C2-N2	-19.65	98.52	116.20
32	2a	1263	C	N3-C2-O2	-17.13	109.91	121.90
32	2a	1263	C	C2-N3-C4	16.38	128.09	119.90
32	2a	1263	C	C5-C6-N1	13.23	127.62	121.00
32	2a	1272	G	N1-C6-O6	-13.10	112.04	119.90
32	2a	1272	G	C6-N1-C2	12.73	132.74	125.10
1	1A	1075	C	N1-C2-O2	12.40	126.34	118.90
55	1x	46	G	C6-N1-C2	-12.02	117.89	125.10
55	2x	46	G	C6-N1-C2	-11.45	118.23	125.10
55	1x	22	G	C5-N7-C8	-10.88	98.86	104.30
32	2a	1263	C	C6-N1-C2	-10.52	116.09	120.30
32	2a	1263	C	C2-N1-C1'	10.45	130.30	118.80
32	2a	1272	G	C5-C6-N1	-10.32	106.34	111.50
1	1A	1075	C	C2-N3-C4	10.15	124.98	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1063	G	C5-C6-O6	10.06	134.64	128.60
55	1x	14	A	C4-C5-C6	9.94	121.97	117.00
1	1A	948	G	O5'-P-OP1	-9.89	96.80	105.70
1	1A	512	G	O4'-C1'-N9	9.75	116.00	108.20
1	2A	2136	C	N1-C2-O2	9.65	124.69	118.90
55	2x	14	A	C5-N7-C8	9.56	108.68	103.90
32	2a	1263	C	C4-C5-C6	-9.46	112.67	117.40
32	1a	1030(B)	C	C2-N1-C1'	9.27	129.00	118.80
55	1x	14	A	C5-N7-C8	9.20	108.50	103.90
1	1A	2682	U	O5'-P-OP2	-9.02	97.58	105.70
1	1A	801	G	O5'-P-OP2	-8.92	97.67	105.70
55	2x	22	G	C5-N7-C8	-8.86	99.87	104.30
1	1A	1063	G	C6-N1-C2	8.66	130.29	125.10
32	2a	1272	G	C2-N3-C4	-8.66	107.57	111.90
55	2x	14	A	C4-C5-C6	8.66	121.33	117.00
32	2a	1263	C	C5-C4-N4	8.56	126.19	120.20
55	1x	46	G	N3-C2-N2	-8.33	114.07	119.90
32	1a	1030(B)	C	N1-C2-O2	8.20	123.82	118.90
1	1A	1063	G	N3-C2-N2	8.01	125.50	119.90
32	2a	1263	C	N3-C4-N4	-7.93	112.45	118.00
2	2B	80	U	O4'-C1'-N1	7.92	114.54	108.20
1	1A	999	U	O5'-P-OP2	-7.85	98.64	105.70
56	1y	33	U	N1-C2-O2	7.75	128.22	122.80
1	1A	975	C	N1-C2-O2	-7.57	114.36	118.90
55	1x	14	A	C5-C6-N1	-7.52	113.94	117.70
56	1y	33	U	C2-N1-C1'	7.50	126.71	117.70
1	2A	2136	C	N3-C2-O2	-7.47	116.67	121.90
32	2a	1263	C	N1-C2-N3	-7.46	113.98	119.20
1	1A	1075	C	N3-C2-O2	-7.44	116.69	121.90
1	1A	1086	A	N1-C6-N6	-7.35	114.19	118.60
1	1A	531	C	O5'-P-OP2	-7.33	99.10	105.70
1	2A	2492	U	O5'-P-OP1	-7.29	99.14	105.70
1	2A	1791	A	O5'-P-OP1	-7.27	99.16	105.70
1	1A	576	U	O5'-P-OP1	-7.26	99.16	105.70
32	2a	1272	G	C4-N9-C1'	7.24	135.91	126.50
32	2a	1272	G	C8-N9-C1'	-7.13	117.73	127.00
1	1A	787	U	O5'-P-OP1	-7.10	99.31	105.70
1	1A	2554	U	O5'-P-OP1	-7.09	99.32	105.70
1	2A	512	G	O4'-C1'-N9	7.07	113.86	108.20
55	1x	22	G	C4-C5-C6	-7.07	114.56	118.80
1	2A	574	C	O5'-P-OP1	-7.06	99.35	105.70
1	1A	2028	U	N3-C4-O4	-7.05	114.46	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	1x	22	G	N7-C8-N9	7.04	116.62	113.10
55	1x	46	G	C5-C6-N1	7.04	115.02	111.50
56	1y	33	U	N3-C2-O2	-7.00	117.30	122.20
1	1A	372	G	O4'-C1'-N9	6.90	113.72	108.20
55	1x	22	G	C4-C5-N7	6.88	113.55	110.80
32	1a	1030	C	N1-C2-O2	6.87	123.02	118.90
55	2x	46	G	N3-C2-N2	-6.84	115.11	119.90
55	2x	46	G	C5-C6-N1	6.83	114.92	111.50
32	1a	266	G	P-O3'-C3'	6.82	127.88	119.70
32	1a	558	G	O5'-P-OP1	-6.80	99.58	105.70
1	1A	1648	C	O5'-P-OP1	-6.79	99.59	105.70
1	2A	945	A	N1-C6-N6	6.74	122.64	118.60
32	1a	1025	U	N1-C2-O2	6.73	127.51	122.80
1	1A	2269	A	O5'-P-OP1	-6.72	99.65	105.70
56	1y	48	C	N1-C2-O2	-6.51	114.99	118.90
1	2A	945	A	C2-N3-C4	-6.51	107.35	110.60
1	1A	1176	G	OP1-P-O3'	6.47	119.44	105.20
1	2A	1992	G	P-O3'-C3'	6.46	127.46	119.70
1	1A	2036	C	O5'-P-OP1	-6.42	99.92	105.70
32	1a	1030(B)	C	C6-N1-C1'	-6.34	113.19	120.80
55	2x	22	G	C4-C5-C6	-6.33	115.00	118.80
2	2B	1	U	C2-N1-C1'	6.32	125.29	117.70
32	2a	1158	C	C2-N1-C1'	6.31	125.74	118.80
55	2x	22	G	N7-C8-N9	6.30	116.25	113.10
32	1a	1030(B)	C	C6-N1-C2	-6.26	117.80	120.30
1	2A	1352	U	O5'-P-OP1	-6.26	100.07	105.70
1	1A	2167	U	C2-N1-C1'	6.24	125.19	117.70
32	2a	754	C	C2-N1-C1'	6.20	125.61	118.80
55	1x	22	G	C5-C6-N1	6.17	114.58	111.50
32	1a	1067	A	P-O3'-C3'	6.16	127.09	119.70
32	1a	299	G	C5-C6-O6	-6.14	124.92	128.60
1	1A	746	A	O4'-C1'-N9	6.12	113.10	108.20
1	1A	198	C	O5'-P-OP2	-6.12	100.19	105.70
32	2a	1263	C	C6-N1-C1'	-6.08	113.50	120.80
1	2A	1780	A	O5'-P-OP1	-6.07	100.24	105.70
1	1A	1992	G	P-O3'-C3'	6.04	126.95	119.70
32	1a	1030(B)	C	N3-C2-O2	-6.04	117.67	121.90
1	1A	1063	G	N1-C6-O6	-6.02	116.29	119.90
1	2A	2061	G	O5'-P-OP2	-6.02	100.28	105.70
55	2x	14	A	C5-C6-N1	-6.01	114.69	117.70
55	1x	22	G	C8-N9-C1'	5.97	134.76	127.00
1	1A	2492	U	O5'-P-OP1	-5.96	100.33	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1696	G	O5'-P-OP2	-5.93	100.36	105.70
32	1a	1158	C	N1-C2-O2	5.92	122.45	118.90
1	1A	1664	A	O5'-P-OP2	-5.92	100.37	105.70
1	1A	2167	U	N1-C2-O2	5.89	126.93	122.80
1	1A	2848	G	O4'-C1'-N9	5.88	112.90	108.20
55	2x	46	G	N1-C2-N3	5.87	127.42	123.90
1	1A	845	G	O4'-C1'-N9	5.87	112.89	108.20
1	1A	226	G	O4'-C1'-N9	5.83	112.87	108.20
1	1A	2553	G	N3-C4-N9	5.81	129.49	126.00
1	1A	2419	U	N3-C4-O4	-5.81	115.33	119.40
1	1A	1936	A	O4'-C1'-N9	5.79	112.83	108.20
32	1a	1158	C	C2-N1-C1'	5.76	125.14	118.80
1	2A	801	G	O5'-P-OP2	-5.76	100.52	105.70
1	1A	588	U	O5'-P-OP2	-5.75	100.52	105.70
1	1A	1187	G	N1-C6-O6	-5.75	116.45	119.90
1	2A	847	U	C2-N1-C1'	5.75	124.60	117.70
32	1a	1034	G	C6-N1-C2	5.75	128.55	125.10
1	2A	141	A	C8-N9-C4	-5.74	103.50	105.80
1	1A	1647	G	O4'-C1'-N9	-5.73	103.61	108.20
55	1x	46	G	N1-C2-N3	5.73	127.34	123.90
1	1A	975	C	C2-N1-C1'	-5.73	112.50	118.80
1	1A	1075	C	C5-C4-N4	5.72	124.21	120.20
1	2A	2129	C	N1-C2-O2	5.67	122.31	118.90
1	2A	2689	U	N3-C2-O2	-5.67	118.23	122.20
55	2x	46	G	N3-C4-C5	-5.66	125.77	128.60
1	1A	2629	A	P-O3'-C3'	5.66	126.49	119.70
32	1a	1030(B)	C	C5-C6-N1	5.65	123.82	121.00
1	2A	2318	G	O4'-C1'-N9	5.65	112.72	108.20
1	2A	746	A	O4'-C1'-N9	5.64	112.71	108.20
32	1a	21	G	O5'-P-OP1	-5.63	100.64	105.70
55	1x	46	G	N9-C4-C5	5.62	107.65	105.40
1	1A	1174	A	P-O3'-C3'	5.61	126.43	119.70
55	2x	22	G	C5-C6-N1	5.58	114.29	111.50
1	1A	795	C	N3-C2-O2	-5.58	118.00	121.90
1	1A	548	A	P-O3'-C3'	5.57	126.39	119.70
1	2A	141	A	N7-C8-N9	5.55	116.58	113.80
1	1A	1776	G	O5'-P-OP2	-5.54	100.71	105.70
55	2x	14	A	C4-C5-N7	-5.54	107.93	110.70
1	1A	2371	G	C5-C6-N1	5.53	114.27	111.50
55	2x	14	A	C8-N9-C1'	-5.51	117.78	127.70
54	1w	47	U	C2-N1-C1'	5.50	124.31	117.70
1	2A	1313	U	C2-N1-C1'	5.49	124.29	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1174	A	OP1-P-O3'	5.47	117.24	105.20
1	1A	975	C	C6-N1-C1'	5.47	127.36	120.80
1	2A	528	A	P-O3'-C3'	5.45	126.24	119.70
32	1a	975	A	O4'-C1'-N9	-5.44	103.85	108.20
1	2A	2689	U	P-O3'-C3'	5.42	126.21	119.70
1	2A	1614	A	O5'-P-OP1	-5.42	100.82	105.70
1	1A	567	A	O5'-P-OP1	-5.42	100.82	105.70
1	1A	1075	C	N3-C4-C5	-5.42	119.73	121.90
32	2a	266	G	P-O3'-C3'	5.42	126.20	119.70
1	1A	444	C	O5'-P-OP1	5.42	117.20	110.70
1	1A	570	G	C5-C6-O6	-5.41	125.36	128.60
32	1a	1030	C	C2-N3-C4	5.38	122.59	119.90
1	1A	2689	U	N3-C2-O2	-5.38	118.44	122.20
1	1A	2028	U	N1-C2-O2	5.37	126.56	122.80
55	2x	14	A	C4-N9-C1'	5.37	135.96	126.30
32	1a	913	A	P-O3'-C3'	5.36	126.13	119.70
1	1A	1265	A	O5'-P-OP2	-5.36	100.88	105.70
32	1a	115	G	P-O3'-C3'	5.34	126.11	119.70
55	1x	14	A	C8-N9-C1'	-5.34	118.08	127.70
1	1A	1176	G	P-O3'-C3'	5.30	126.06	119.70
1	1A	954	G	O5'-P-OP1	-5.29	100.94	105.70
32	2a	299	G	C5-C6-O6	-5.28	125.43	128.60
1	1A	2167	U	N3-C2-O2	-5.26	118.52	122.20
32	1a	687	A	P-O3'-C3'	5.25	126.00	119.70
1	2A	945	A	C4-C5-N7	5.24	113.32	110.70
32	1a	1442	G	N3-C4-C5	-5.24	125.98	128.60
32	2a	1158	C	N1-C2-O2	5.22	122.03	118.90
1	2A	2318	G	N7-C8-N9	5.21	115.71	113.10
1	1A	1082	U	N3-C4-O4	-5.21	115.75	119.40
1	2A	748	G	O4'-C1'-N9	5.21	112.37	108.20
55	1x	14	A	C4-N9-C1'	5.20	135.66	126.30
1	2A	1647	G	O4'-C1'-N9	-5.20	104.04	108.20
1	2A	1653	G	P-O3'-C3'	5.19	125.93	119.70
32	1a	1034	G	C5-C6-O6	5.19	131.72	128.60
1	1A	2612	C	O5'-P-OP2	-5.19	101.03	105.70
32	2a	687	A	P-O3'-C3'	5.19	125.93	119.70
1	1A	975	C	C2-N3-C4	-5.18	117.31	119.90
1	1A	2593	U	N3-C4-O4	-5.18	115.78	119.40
1	2A	1698	A	O4'-C1'-N9	5.18	112.34	108.20
1	1A	847	U	C2-N1-C1'	5.17	123.90	117.70
1	1A	1416	G	O4'-C1'-N9	5.16	112.33	108.20
32	2a	79	G	C5-C6-O6	5.16	131.69	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	1x	46	G	N3-C4-C5	-5.15	126.02	128.60
32	2a	1029	C	N1-C2-O2	5.15	121.99	118.90
55	2x	22	G	C8-N9-C1'	5.14	133.68	127.00
32	1a	1201	A	P-O3'-C3'	5.13	125.86	119.70
1	1A	1614	A	O5'-P-OP1	-5.12	101.09	105.70
1	1A	2689	U	P-O3'-C3'	5.12	125.84	119.70
55	1x	46	G	C5-C6-O6	-5.11	125.53	128.60
32	1a	955	U	C2-N3-C4	5.11	130.07	127.00
55	1x	46	G	C4-C5-N7	-5.10	108.76	110.80
55	1x	22	G	N3-C4-N9	-5.07	122.96	126.00
32	2a	1067	A	P-O3'-C3'	5.07	125.78	119.70
51	2t	99	LEU	CA-CB-CG	5.06	126.95	115.30
55	2x	22	G	N1-C6-O6	-5.06	116.86	119.90
32	2a	913	A	P-O3'-C3'	5.05	125.77	119.70
1	1A	975	C	N1-C2-N3	5.05	122.73	119.20
32	2a	79	G	O4'-C1'-N9	5.04	112.23	108.20
1	1A	2553	G	N3-C4-C5	-5.04	126.08	128.60
54	2w	62	C	C2-N1-C1'	5.03	124.33	118.80
1	2A	2689	U	N1-C2-O2	5.03	126.32	122.80
1	2A	2318	G	C8-N9-C4	-5.02	104.39	106.40
1	2A	945	A	C5-N7-C8	-5.01	101.40	103.90
1	2A	1142(A)	A	C2-N3-C4	-5.01	108.10	110.60
1	1A	195	A	P-O3'-C3'	5.01	125.71	119.70
1	1A	298	G	C5-N7-C8	5.00	106.80	104.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
11	1P	35	HIS	Peptide
11	2P	35	HIS	Peptide

5.2 Too-close contacts (i)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	1D	273/276 (99%)	258 (94%)	15 (6%)	0	100 100
3	2D	273/276 (99%)	261 (96%)	12 (4%)	0	100 100
4	1E	202/206 (98%)	192 (95%)	9 (4%)	1 (0%)	29 41
4	2E	202/206 (98%)	188 (93%)	13 (6%)	1 (0%)	29 41
5	1F	201/210 (96%)	194 (96%)	5 (2%)	2 (1%)	15 23
5	2F	201/210 (96%)	192 (96%)	6 (3%)	3 (2%)	10 14
6	1G	179/182 (98%)	170 (95%)	6 (3%)	3 (2%)	9 11
6	2G	179/182 (98%)	157 (88%)	16 (9%)	6 (3%)	3 3
7	1H	172/180 (96%)	162 (94%)	9 (5%)	1 (1%)	25 36
7	2H	172/180 (96%)	154 (90%)	17 (10%)	1 (1%)	25 36
8	1I	144/148 (97%)	121 (84%)	23 (16%)	0	100 100
8	2I	144/148 (97%)	118 (82%)	25 (17%)	1 (1%)	22 32
9	1N	138/140 (99%)	132 (96%)	6 (4%)	0	100 100
9	2N	138/140 (99%)	128 (93%)	9 (6%)	1 (1%)	22 32
10	1O	120/122 (98%)	114 (95%)	6 (5%)	0	100 100
10	2O	120/122 (98%)	112 (93%)	8 (7%)	0	100 100
11	1P	147/150 (98%)	131 (89%)	15 (10%)	1 (1%)	22 32
11	2P	147/150 (98%)	133 (90%)	10 (7%)	4 (3%)	5 5
12	1Q	139/141 (99%)	134 (96%)	5 (4%)	0	100 100
12	2Q	139/141 (99%)	127 (91%)	11 (8%)	1 (1%)	22 32
13	1R	116/118 (98%)	112 (97%)	4 (3%)	0	100 100
13	2R	116/118 (98%)	112 (97%)	4 (3%)	0	100 100
14	1S	108/112 (96%)	105 (97%)	3 (3%)	0	100 100
14	2S	108/112 (96%)	103 (95%)	3 (3%)	2 (2%)	8 10
15	1T	129/146 (88%)	124 (96%)	3 (2%)	2 (2%)	9 13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
15	2T	129/146 (88%)	119 (92%)	10 (8%)	0	100 100
16	1U	114/118 (97%)	114 (100%)	0	0	100 100
16	2U	114/118 (97%)	114 (100%)	0	0	100 100
17	1V	99/101 (98%)	93 (94%)	4 (4%)	2 (2%)	7 9
17	2V	99/101 (98%)	91 (92%)	6 (6%)	2 (2%)	7 9
18	1W	110/113 (97%)	109 (99%)	1 (1%)	0	100 100
18	2W	110/113 (97%)	108 (98%)	2 (2%)	0	100 100
19	1X	93/96 (97%)	89 (96%)	3 (3%)	1 (1%)	14 20
19	2X	93/96 (97%)	87 (94%)	5 (5%)	1 (1%)	14 20
20	1Y	105/110 (96%)	99 (94%)	5 (5%)	1 (1%)	15 23
20	2Y	105/110 (96%)	100 (95%)	5 (5%)	0	100 100
21	1Z	148/206 (72%)	133 (90%)	14 (10%)	1 (1%)	22 32
21	2Z	156/206 (76%)	134 (86%)	18 (12%)	4 (3%)	5 5
22	10	81/85 (95%)	79 (98%)	2 (2%)	0	100 100
22	20	81/85 (95%)	77 (95%)	4 (5%)	0	100 100
23	11	95/98 (97%)	93 (98%)	1 (1%)	1 (1%)	14 20
23	21	95/98 (97%)	92 (97%)	3 (3%)	0	100 100
24	12	68/72 (94%)	67 (98%)	1 (2%)	0	100 100
24	22	68/72 (94%)	68 (100%)	0	0	100 100
25	13	57/60 (95%)	56 (98%)	1 (2%)	0	100 100
25	23	57/60 (95%)	53 (93%)	4 (7%)	0	100 100
26	14	67/71 (94%)	53 (79%)	10 (15%)	4 (6%)	1 0
26	24	67/71 (94%)	52 (78%)	11 (16%)	4 (6%)	1 0
27	15	57/60 (95%)	56 (98%)	1 (2%)	0	100 100
27	25	57/60 (95%)	56 (98%)	1 (2%)	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%)	195 (85%)	27 (12%)	7 (3%)	4 3
33	2b	229/256 (90%)	191 (83%)	31 (14%)	7 (3%)	4 3
34	1c	204/239 (85%)	191 (94%)	13 (6%)	0	100 100
34	2c	204/239 (85%)	182 (89%)	18 (9%)	4 (2%)	7 9
35	1d	206/209 (99%)	196 (95%)	9 (4%)	1 (0%)	29 41
35	2d	206/209 (99%)	195 (95%)	11 (5%)	0	100 100
36	1e	146/162 (90%)	128 (88%)	15 (10%)	3 (2%)	7 8
36	2e	146/162 (90%)	134 (92%)	11 (8%)	1 (1%)	22 32
37	1f	98/101 (97%)	93 (95%)	5 (5%)	0	100 100
37	2f	98/101 (97%)	95 (97%)	3 (3%)	0	100 100
38	1g	153/156 (98%)	140 (92%)	11 (7%)	2 (1%)	12 17
38	2g	153/156 (98%)	136 (89%)	14 (9%)	3 (2%)	7 9
39	1h	135/138 (98%)	129 (96%)	5 (4%)	1 (1%)	22 32
39	2h	135/138 (98%)	127 (94%)	8 (6%)	0	100 100
40	1i	125/128 (98%)	112 (90%)	12 (10%)	1 (1%)	19 29
40	2i	125/128 (98%)	109 (87%)	14 (11%)	2 (2%)	9 13
41	1j	95/105 (90%)	83 (87%)	10 (10%)	2 (2%)	7 8
41	2j	94/105 (90%)	82 (87%)	9 (10%)	3 (3%)	4 3
42	1k	112/129 (87%)	103 (92%)	8 (7%)	1 (1%)	17 25
42	2k	112/129 (87%)	105 (94%)	5 (4%)	2 (2%)	8 10
43	1l	119/132 (90%)	112 (94%)	7 (6%)	0	100 100
43	2l	119/132 (90%)	111 (93%)	7 (6%)	1 (1%)	19 29
44	1m	121/126 (96%)	106 (88%)	13 (11%)	2 (2%)	9 11
44	2m	120/126 (95%)	107 (89%)	12 (10%)	1 (1%)	19 29
45	1n	58/61 (95%)	56 (97%)	2 (3%)	0	100 100
45	2n	58/61 (95%)	53 (91%)	4 (7%)	1 (2%)	9 11
46	1o	86/89 (97%)	81 (94%)	5 (6%)	0	100 100
46	2o	86/89 (97%)	82 (95%)	4 (5%)	0	100 100
47	1p	80/88 (91%)	74 (92%)	6 (8%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
47	2p	80/88 (91%)	75 (94%)	5 (6%)	0	100 100
48	1q	97/105 (92%)	91 (94%)	5 (5%)	1 (1%)	15 23
48	2q	97/105 (92%)	91 (94%)	5 (5%)	1 (1%)	15 23
49	1r	66/88 (75%)	60 (91%)	6 (9%)	0	100 100
49	2r	66/88 (75%)	62 (94%)	4 (6%)	0	100 100
50	1s	81/93 (87%)	71 (88%)	9 (11%)	1 (1%)	13 19
50	2s	81/93 (87%)	68 (84%)	13 (16%)	0	100 100
51	1t	94/106 (89%)	84 (89%)	6 (6%)	4 (4%)	2 2
51	2t	94/106 (89%)	85 (90%)	6 (6%)	3 (3%)	4 3
52	1u	21/27 (78%)	19 (90%)	2 (10%)	0	100 100
52	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100 100
All	All	11370/12128 (94%)	10541 (93%)	723 (6%)	106 (1%)	17 25

All (106) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
21	1Z	53	ILE
23	11	3	LYS
33	1b	22	LYS
33	1b	126	GLU
35	1d	173	TRP
40	1i	54	ASP
44	1m	67	GLU
44	1m	107	ALA
5	2F	130	ALA
33	2b	17	PHE
38	2g	55	GLY
38	2g	80	VAL
41	2j	79	ARG
44	2m	67	GLU
5	1F	15	SER
6	1G	50	ALA
19	1X	93	GLU
26	14	47	GLN
26	14	49	PHE
26	14	62	ARG
33	1b	17	PHE

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Mol	Chain	Res	Type
36	1e	85	GLY
41	1j	79	ARG
42	1k	49	GLY
48	1q	68	ARG
50	1s	81	ARG
51	1t	100	ILE
6	2G	84	LYS
17	2V	53	GLU
17	2V	79	VAL
21	2Z	146	ILE
26	24	45	GLY
33	2b	123	ALA
34	2c	107	GLN
34	2c	156	ARG
42	2k	49	GLY
48	2q	68	ARG
4	1E	52	LEU
6	1G	43	LEU
17	1V	43	GLU
17	1V	79	VAL
20	1Y	54	LYS
33	1b	231	GLU
38	1g	6	ARG
51	1t	47	GLY
6	2G	43	LEU
6	2G	50	ALA
11	2P	44	GLY
12	2Q	16	ARG
19	2X	93	GLU
21	2Z	52	SER
21	2Z	144	LEU
26	24	49	PHE
26	24	61	ARG
33	2b	20	GLU
33	2b	21	ARG
33	2b	126	GLU
34	2c	95	THR
38	2g	52	GLU
41	2j	78	ASN
6	1G	49	ASP
15	1T	37	GLY
26	14	61	ARG

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Mol	Chain	Res	Type
33	1b	8	LYS
33	1b	124	SER
36	1e	86	ALA
4	2E	52	LEU
5	2F	18	ARG
6	2G	42	GLY
9	2N	2	LYS
11	2P	29	LYS
33	2b	9	GLU
40	2i	56	LEU
43	2l	91	LYS
51	2t	10	LEU
51	2t	47	GLY
7	1H	126	PRO
11	1P	45	LEU
15	1T	55	ASN
41	1j	78	ASN
51	1t	95	ALA
5	2F	21	ALA
7	2H	47	GLU
8	2I	117	GLU
11	2P	45	LEU
34	2c	53	ALA
40	2i	121	ARG
36	1e	69	VAL
6	2G	51	ARG
6	2G	124	SER
26	24	65	ASP
41	2j	75	ILE
42	2k	105	VAL
11	2P	122	PRO
14	2S	96	GLY
51	2t	102	GLY
38	1g	55	GLY
51	1t	102	GLY
21	2Z	165	VAL
33	2b	231	GLU
36	2e	96	PRO
45	2n	14	PRO
39	1h	73	ASP
14	2S	109	GLY
33	1b	125	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	1D	215/218 (99%)	204 (95%)	11 (5%)	24 39
3	2D	215/218 (99%)	206 (96%)	9 (4%)	30 47
4	1E	164/166 (99%)	155 (94%)	9 (6%)	21 35
4	2E	164/166 (99%)	158 (96%)	6 (4%)	34 53
5	1F	160/166 (96%)	146 (91%)	14 (9%)	10 15
5	2F	159/166 (96%)	151 (95%)	8 (5%)	24 40
6	1G	143/156 (92%)	128 (90%)	15 (10%)	7 9
6	2G	143/156 (92%)	124 (87%)	19 (13%)	4 4
7	1H	144/148 (97%)	134 (93%)	10 (7%)	15 25
7	2H	144/148 (97%)	127 (88%)	17 (12%)	5 7
8	1I	113/124 (91%)	97 (86%)	16 (14%)	3 4
8	2I	105/124 (85%)	92 (88%)	13 (12%)	4 5
9	1N	118/119 (99%)	110 (93%)	8 (7%)	16 25
9	2N	118/119 (99%)	109 (92%)	9 (8%)	13 20
10	1O	100/100 (100%)	99 (99%)	1 (1%)	76 88
10	2O	100/100 (100%)	95 (95%)	5 (5%)	24 40
11	1P	115/116 (99%)	109 (95%)	6 (5%)	23 38
11	2P	115/116 (99%)	108 (94%)	7 (6%)	18 30
12	1Q	111/111 (100%)	103 (93%)	8 (7%)	14 23
12	2Q	111/111 (100%)	105 (95%)	6 (5%)	22 36
13	1R	101/101 (100%)	95 (94%)	6 (6%)	19 32
13	2R	101/101 (100%)	97 (96%)	4 (4%)	31 49
14	1S	86/88 (98%)	82 (95%)	4 (5%)	26 42
14	2S	85/88 (97%)	77 (91%)	8 (9%)	8 13
15	1T	115/127 (91%)	107 (93%)	8 (7%)	15 24
15	2T	113/127 (89%)	108 (96%)	5 (4%)	28 45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
16	1U	93/94 (99%)	87 (94%)	6 (6%)	17 27
16	2U	93/94 (99%)	92 (99%)	1 (1%)	73 87
17	1V	80/82 (98%)	77 (96%)	3 (4%)	33 51
17	2V	80/82 (98%)	73 (91%)	7 (9%)	10 15
18	1W	90/92 (98%)	86 (96%)	4 (4%)	28 45
18	2W	90/92 (98%)	86 (96%)	4 (4%)	28 45
19	1X	77/78 (99%)	72 (94%)	5 (6%)	17 27
19	2X	77/78 (99%)	75 (97%)	2 (3%)	46 66
20	1Y	85/91 (93%)	76 (89%)	9 (11%)	6 9
20	2Y	85/91 (93%)	80 (94%)	5 (6%)	19 32
21	1Z	135/179 (75%)	124 (92%)	11 (8%)	11 18
21	2Z	137/179 (76%)	124 (90%)	13 (10%)	8 12
22	10	65/67 (97%)	65 (100%)	0	100 100
22	20	65/67 (97%)	63 (97%)	2 (3%)	40 60
23	11	80/83 (96%)	78 (98%)	2 (2%)	47 67
23	21	80/83 (96%)	78 (98%)	2 (2%)	47 67
24	12	65/67 (97%)	62 (95%)	3 (5%)	27 43
24	22	65/67 (97%)	61 (94%)	4 (6%)	18 29
25	13	51/52 (98%)	49 (96%)	2 (4%)	32 50
25	23	50/52 (96%)	49 (98%)	1 (2%)	55 74
26	14	59/63 (94%)	55 (93%)	4 (7%)	16 25
26	24	53/63 (84%)	40 (76%)	13 (24%)	0 0
27	15	50/52 (96%)	48 (96%)	2 (4%)	31 49
27	25	50/52 (96%)	48 (96%)	2 (4%)	31 49
28	16	51/52 (98%)	48 (94%)	3 (6%)	19 32
28	26	50/52 (96%)	43 (86%)	7 (14%)	3 4
29	17	41/42 (98%)	37 (90%)	4 (10%)	8 11
29	27	41/42 (98%)	38 (93%)	3 (7%)	14 22
30	18	54/55 (98%)	52 (96%)	2 (4%)	34 53
30	28	54/55 (98%)	51 (94%)	3 (6%)	21 34
31	19	34/34 (100%)	33 (97%)	1 (3%)	42 62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
31	29	34/34 (100%)	33 (97%)	1 (3%)	42 62
33	1b	192/220 (87%)	169 (88%)	23 (12%)	5 6
33	2b	187/220 (85%)	165 (88%)	22 (12%)	5 7
34	1c	142/188 (76%)	132 (93%)	10 (7%)	15 24
34	2c	140/188 (74%)	131 (94%)	9 (6%)	17 28
35	1d	169/181 (93%)	150 (89%)	19 (11%)	6 8
35	2d	173/181 (96%)	157 (91%)	16 (9%)	9 13
36	1e	113/123 (92%)	100 (88%)	13 (12%)	5 7
36	2e	114/123 (93%)	101 (89%)	13 (11%)	5 7
37	1f	84/90 (93%)	78 (93%)	6 (7%)	14 23
37	2f	85/90 (94%)	79 (93%)	6 (7%)	14 23
38	1g	119/127 (94%)	107 (90%)	12 (10%)	7 11
38	2g	120/127 (94%)	110 (92%)	10 (8%)	11 17
39	1h	114/119 (96%)	106 (93%)	8 (7%)	15 24
39	2h	114/119 (96%)	109 (96%)	5 (4%)	28 45
40	1i	90/99 (91%)	81 (90%)	9 (10%)	7 11
40	2i	89/99 (90%)	79 (89%)	10 (11%)	6 8
41	1j	66/92 (72%)	57 (86%)	9 (14%)	3 4
41	2j	69/92 (75%)	58 (84%)	11 (16%)	2 3
42	1k	82/99 (83%)	75 (92%)	7 (8%)	10 16
42	2k	83/99 (84%)	78 (94%)	5 (6%)	19 31
43	1l	96/108 (89%)	93 (97%)	3 (3%)	40 60
43	2l	96/108 (89%)	92 (96%)	4 (4%)	30 47
44	1m	93/101 (92%)	82 (88%)	11 (12%)	5 7
44	2m	92/101 (91%)	86 (94%)	6 (6%)	17 27
45	1n	49/50 (98%)	46 (94%)	3 (6%)	18 30
45	2n	49/50 (98%)	46 (94%)	3 (6%)	18 30
46	1o	78/80 (98%)	74 (95%)	4 (5%)	24 39
46	2o	78/80 (98%)	72 (92%)	6 (8%)	13 20
47	1p	69/74 (93%)	63 (91%)	6 (9%)	10 15
47	2p	68/74 (92%)	63 (93%)	5 (7%)	13 22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
48	1q	94/97 (97%)	92 (98%)	2 (2%)	53 72
48	2q	94/97 (97%)	90 (96%)	4 (4%)	29 46
49	1r	59/77 (77%)	52 (88%)	7 (12%)	5 6
49	2r	59/77 (77%)	53 (90%)	6 (10%)	7 10
50	1s	69/80 (86%)	63 (91%)	6 (9%)	10 15
50	2s	67/80 (84%)	57 (85%)	10 (15%)	3 3
51	1t	70/82 (85%)	68 (97%)	2 (3%)	42 62
51	2t	70/82 (85%)	65 (93%)	5 (7%)	14 23
52	1u	18/22 (82%)	16 (89%)	2 (11%)	6 8
52	2u	18/22 (82%)	16 (89%)	2 (11%)	6 8
All	All	9303/10064 (92%)	8620 (93%)	683 (7%)	14 22

All (683) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	3	VAL
3	1D	14	ARG
3	1D	27	THR
3	1D	32	SER
3	1D	37	LEU
3	1D	131	LEU
3	1D	142	VAL
3	1D	211	ARG
3	1D	242	ARG
3	1D	259	THR
3	1D	273	ARG
4	1E	1	MET
4	1E	9	VAL
4	1E	34	VAL
4	1E	78	LEU
4	1E	89	ASP
4	1E	97	LYS
4	1E	113	PHE
4	1E	116	VAL
4	1E	184	VAL
5	1F	24	LEU
5	1F	33	LEU
5	1F	53	THR

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Mol	Chain	Res	Type
5	1F	57	VAL
5	1F	70	THR
5	1F	72	ARG
5	1F	74	ARG
5	1F	106	ARG
5	1F	144	LYS
5	1F	158	THR
5	1F	168	ARG
5	1F	183	VAL
5	1F	192	LEU
5	1F	201	VAL
6	1G	7	LEU
6	1G	9	ARG
6	1G	21	ARG
6	1G	31	VAL
6	1G	43	LEU
6	1G	82	LEU
6	1G	109	VAL
6	1G	136	ARG
6	1G	139	LEU
6	1G	140	ILE
6	1G	145	THR
6	1G	148	MET
6	1G	159	VAL
6	1G	170	ARG
6	1G	174	GLU
7	1H	23	ARG
7	1H	45	VAL
7	1H	56	SER
7	1H	71	LEU
7	1H	81	GLU
7	1H	88	LEU
7	1H	95	ARG
7	1H	124	GLU
7	1H	129	THR
7	1H	149	ARG
8	1I	5	LEU
8	1I	9	LEU
8	1I	10	GLU
8	1I	12	LEU
8	1I	20	ASP
8	1I	50	ARG

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Mol	Chain	Res	Type
8	1I	77	LEU
8	1I	85	GLU
8	1I	87	LYS
8	1I	92	VAL
8	1I	108	THR
8	1I	110	ASP
8	1I	129	THR
8	1I	133	HIS
8	1I	140	LEU
8	1I	144	VAL
9	1N	1	MET
9	1N	2	LYS
9	1N	9	VAL
9	1N	14	VAL
9	1N	28	THR
9	1N	48	MET
9	1N	62	VAL
9	1N	96	GLU
10	1O	106	LEU
11	1P	7	ARG
11	1P	40	SER
11	1P	95	VAL
11	1P	125	VAL
11	1P	133	SER
11	1P	147	LEU
12	1Q	1	MET
12	1Q	7	MET
12	1Q	8	LYS
12	1Q	22	LYS
12	1Q	56	ARG
12	1Q	75	THR
12	1Q	109	VAL
12	1Q	110	THR
13	1R	15	SER
13	1R	36	THR
13	1R	59	ASP
13	1R	67	LEU
13	1R	91	GLN
13	1R	114	VAL
14	1S	14	VAL
14	1S	46	VAL
14	1S	69	VAL

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Mol	Chain	Res	Type
14	1S	110	LEU
15	1T	28	VAL
15	1T	29	ARG
15	1T	34	VAL
15	1T	36	GLU
15	1T	82	LEU
15	1T	96	ARG
15	1T	108	ARG
15	1T	125	ARG
16	1U	5	LYS
16	1U	8	VAL
16	1U	31	SER
16	1U	59	ARG
16	1U	74	LEU
16	1U	84	LYS
17	1V	56	SER
17	1V	79	VAL
17	1V	85	LYS
18	1W	11	ARG
18	1W	17	VAL
18	1W	67	ASP
18	1W	92	ARG
19	1X	1	MET
19	1X	35	THR
19	1X	48	LYS
19	1X	66	LEU
19	1X	92	LEU
20	1Y	1	MET
20	1Y	8	LYS
20	1Y	31	LEU
20	1Y	40	GLU
20	1Y	43	ASN
20	1Y	72	VAL
20	1Y	85	VAL
20	1Y	99	CYS
20	1Y	107	ASP
21	1Z	33	LEU
21	1Z	42	VAL
21	1Z	49	ARG
21	1Z	72	ARG
21	1Z	121	HIS
21	1Z	123	ASP

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Mol	Chain	Res	Type
21	1Z	154	ASP
21	1Z	155	LEU
21	1Z	162	GLU
21	1Z	170	THR
21	1Z	171	ILE
23	11	40	ARG
23	11	59	THR
24	12	19	VAL
24	12	45	SER
24	12	70	GLN
25	13	23	LEU
25	13	54	VAL
26	14	49	PHE
26	14	53	GLU
26	14	63	TYR
26	14	67	TYR
27	15	6	VAL
27	15	40	LYS
28	16	4	GLU
28	16	19	ARG
28	16	48	VAL
29	17	24	THR
29	17	41	ARG
29	17	43	THR
29	17	46	VAL
30	18	31	HIS
30	18	34	TRP
31	19	28	GLU
33	1b	11	LEU
33	1b	12	GLU
33	1b	16	HIS
33	1b	21	ARG
33	1b	24	TRP
33	1b	35	GLU
33	1b	43	ASP
33	1b	44	LEU
33	1b	45	GLN
33	1b	54	THR
33	1b	67	THR
33	1b	73	THR
33	1b	80	ILE
33	1b	82	ARG

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Mol	Chain	Res	Type
33	1b	113	HIS
33	1b	117	GLU
33	1b	127	ILE
33	1b	130	ARG
33	1b	142	LEU
33	1b	150	SER
33	1b	196	LEU
33	1b	208	ILE
33	1b	236	TYR
34	1c	3	ASN
34	1c	77	ILE
34	1c	82	GLU
34	1c	85	ARG
34	1c	89	GLU
34	1c	102	ASN
34	1c	164	ARG
34	1c	178	LEU
34	1c	195	VAL
34	1c	207	VAL
35	1d	3	ARG
35	1d	19	LEU
35	1d	31	CYS
35	1d	59	ARG
35	1d	61	LYS
35	1d	76	ARG
35	1d	88	VAL
35	1d	112	VAL
35	1d	119	GLN
35	1d	122	ARG
35	1d	127	THR
35	1d	135	LEU
35	1d	140	VAL
35	1d	157	LEU
35	1d	170	VAL
35	1d	175	SER
35	1d	177	ASP
35	1d	187	ARG
35	1d	194	LEU
36	1e	10	MET
36	1e	20	GLN
36	1e	24	ARG
36	1e	31	LEU

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Mol	Chain	Res	Type
36	1e	41	VAL
36	1e	63	ARG
36	1e	64	ARG
36	1e	68	GLU
36	1e	73	ASN
36	1e	78	HIS
36	1e	91	LEU
36	1e	126	ARG
36	1e	131	ILE
37	1f	55	ASP
37	1f	57	GLN
37	1f	72	VAL
37	1f	73	ASN
37	1f	75	LEU
37	1f	78	GLU
38	1g	12	LEU
38	1g	27	ILE
38	1g	41	ARG
38	1g	50	ILE
38	1g	57	GLU
38	1g	61	VAL
38	1g	78	ARG
38	1g	104	LEU
38	1g	110	GLN
38	1g	113	GLU
38	1g	115	ARG
38	1g	131	LYS
39	1h	25	ASP
39	1h	38	ILE
39	1h	39	LEU
39	1h	52	ASP
39	1h	54	ASP
39	1h	112	LEU
39	1h	121	ASP
39	1h	133	LEU
40	1i	23	ASN
40	1i	56	LEU
40	1i	88	TYR
40	1i	96	LEU
40	1i	97	LYS
40	1i	103	THR
40	1i	104	ARG

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Mol	Chain	Res	Type
40	1i	105	ASP
40	1i	128	ARG
41	1j	30	SER
41	1j	35	SER
41	1j	38	ILE
41	1j	42	THR
41	1j	43	ARG
41	1j	46	ARG
41	1j	81	THR
41	1j	92	THR
41	1j	95	GLU
42	1k	14	VAL
42	1k	31	THR
42	1k	48	ILE
42	1k	87	THR
42	1k	109	VAL
42	1k	114	VAL
42	1k	117	ASN
43	1l	33	ARG
43	1l	47	LYS
43	1l	62	SER
44	1m	3	ARG
44	1m	4	ILE
44	1m	11	ARG
44	1m	14	ARG
44	1m	49	THR
44	1m	64	TRP
44	1m	67	GLU
44	1m	70	LEU
44	1m	94	ARG
44	1m	106	ASN
44	1m	121	LYS
45	1n	4	LYS
45	1n	18	VAL
45	1n	33	VAL
46	1o	39	LEU
46	1o	84	LYS
46	1o	87	ILE
46	1o	88	ARG
47	1p	16	HIS
47	1p	27	LYS
47	1p	42	ARG

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Mol	Chain	Res	Type
47	1p	61	SER
47	1p	62	VAL
47	1p	67	THR
48	1q	14	LYS
48	1q	52	LYS
49	1r	26	LEU
49	1r	31	LEU
49	1r	35	ARG
49	1r	36	ASN
49	1r	54	ARG
49	1r	61	LYS
49	1r	84	LYS
50	1s	4	SER
50	1s	12	ASP
50	1s	18	LYS
50	1s	37	ARG
50	1s	41	VAL
50	1s	48	THR
51	1t	10	LEU
51	1t	24	LEU
52	1u	9	ARG
52	1u	15	ARG
3	2D	37	LEU
3	2D	38	LYS
3	2D	71	ASP
3	2D	88	ARG
3	2D	99	ASP
3	2D	142	VAL
3	2D	211	ARG
3	2D	242	ARG
3	2D	260	ARG
4	2E	38	THR
4	2E	77	ILE
4	2E	78	LEU
4	2E	90	THR
4	2E	116	VAL
4	2E	119	ARG
5	2F	50	SER
5	2F	106	ARG
5	2F	145	GLU
5	2F	161	GLU
5	2F	165	ARG

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Mol	Chain	Res	Type
5	2F	175	THR
5	2F	192	LEU
5	2F	201	VAL
6	2G	5	VAL
6	2G	18	GLU
6	2G	22	ARG
6	2G	28	VAL
6	2G	43	LEU
6	2G	45	GLU
6	2G	53	LEU
6	2G	60	LEU
6	2G	62	LEU
6	2G	79	ASN
6	2G	86	MET
6	2G	91	ARG
6	2G	124	SER
6	2G	133	LEU
6	2G	137	GLU
6	2G	145	THR
6	2G	159	VAL
6	2G	165	THR
6	2G	170	ARG
7	2H	13	LYS
7	2H	16	SER
7	2H	23	ARG
7	2H	45	VAL
7	2H	51	ARG
7	2H	57	ASP
7	2H	63	SER
7	2H	71	LEU
7	2H	88	LEU
7	2H	95	ARG
7	2H	101	ARG
7	2H	104	GLU
7	2H	119	GLU
7	2H	129	THR
7	2H	136	ILE
7	2H	140	LYS
7	2H	149	ARG
8	2I	15	VAL
8	2I	38	LEU
8	2I	44	LEU

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Mol	Chain	Res	Type
8	2I	51	ILE
8	2I	58	LEU
8	2I	61	ARG
8	2I	77	LEU
8	2I	87	LYS
8	2I	92	VAL
8	2I	108	THR
8	2I	116	LEU
8	2I	117	GLU
8	2I	127	VAL
9	2N	1	MET
9	2N	8	GLN
9	2N	9	VAL
9	2N	28	THR
9	2N	38	HIS
9	2N	48	MET
9	2N	61	ARG
9	2N	62	VAL
9	2N	68	GLU
10	2O	28	SER
10	2O	69	ILE
10	2O	91	LEU
10	2O	113	LYS
10	2O	116	SER
11	2P	70	GLN
11	2P	86	LYS
11	2P	98	GLU
11	2P	119	GLU
11	2P	133	SER
11	2P	135	LEU
11	2P	147	LEU
12	2Q	12	GLN
12	2Q	21	THR
12	2Q	22	LYS
12	2Q	56	ARG
12	2Q	106	VAL
12	2Q	110	THR
13	2R	6	SER
13	2R	36	THR
13	2R	67	LEU
13	2R	114	VAL
14	2S	26	LEU

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Mol	Chain	Res	Type
14	2S	36	TYR
14	2S	52	SER
14	2S	58	LEU
14	2S	64	GLU
14	2S	83	LYS
14	2S	103	GLU
14	2S	110	LEU
15	2T	28	VAL
15	2T	87	ASP
15	2T	89	VAL
15	2T	96	ARG
15	2T	104	ASN
16	2U	74	LEU
17	2V	7	THR
17	2V	38	LEU
17	2V	61	VAL
17	2V	79	VAL
17	2V	85	LYS
17	2V	98	GLU
17	2V	100	ARG
18	2W	11	ARG
18	2W	17	VAL
18	2W	63	ASP
18	2W	67	ASP
19	2X	57	LEU
19	2X	66	LEU
20	2Y	11	ASP
20	2Y	40	GLU
20	2Y	43	ASN
20	2Y	72	VAL
20	2Y	99	CYS
21	2Z	6	LYS
21	2Z	33	LEU
21	2Z	91	LEU
21	2Z	96	VAL
21	2Z	98	MET
21	2Z	100	VAL
21	2Z	121	HIS
21	2Z	131	ARG
21	2Z	154	ASP
21	2Z	155	LEU
21	2Z	170	THR

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Mol	Chain	Res	Type
21	2Z	171	ILE
21	2Z	174	VAL
22	20	10	THR
22	20	11	ARG
23	21	40	ARG
23	21	59	THR
24	22	11	GLU
24	22	19	VAL
24	22	53	LEU
24	22	70	GLN
25	23	31	LEU
26	24	13	ARG
26	24	24	THR
26	24	27	THR
26	24	33	VAL
26	24	34	GLU
26	24	44	THR
26	24	49	PHE
26	24	52	THR
26	24	59	PHE
26	24	61	ARG
26	24	63	TYR
26	24	67	TYR
26	24	68	ARG
27	25	6	VAL
27	25	40	LYS
28	26	5	VAL
28	26	6	ARG
28	26	13	CYS
28	26	19	ARG
28	26	30	THR
28	26	32	ASN
28	26	48	VAL
29	27	1	MET
29	27	41	ARG
29	27	46	VAL
30	28	14	VAL
30	28	23	VAL
30	28	34	TRP
31	29	28	GLU
33	2b	7	VAL
33	2b	8	LYS

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Mol	Chain	Res	Type
33	2b	9	GLU
33	2b	11	LEU
33	2b	16	HIS
33	2b	24	TRP
33	2b	48	MET
33	2b	53	ARG
33	2b	76	GLN
33	2b	83	MET
33	2b	94	ASN
33	2b	107	THR
33	2b	111	ARG
33	2b	112	VAL
33	2b	115	LEU
33	2b	126	GLU
33	2b	127	ILE
33	2b	137	ARG
33	2b	157	ARG
33	2b	163	PHE
33	2b	185	ILE
33	2b	189	ASP
34	2c	15	THR
34	2c	21	ARG
34	2c	44	GLU
34	2c	47	LEU
34	2c	70	VAL
34	2c	152	ILE
34	2c	172	ARG
34	2c	182	ILE
34	2c	190	ARG
35	2d	8	VAL
35	2d	31	CYS
35	2d	34	GLU
35	2d	45	GLN
35	2d	52	SER
35	2d	76	ARG
35	2d	96	LEU
35	2d	99	SER
35	2d	112	VAL
35	2d	113	SER
35	2d	127	THR
35	2d	135	LEU
35	2d	150	GLU

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Mol	Chain	Res	Type
35	2d	178	VAL
35	2d	187	ARG
35	2d	188	LEU
36	2e	12	LEU
36	2e	13	ILE
36	2e	18	ARG
36	2e	20	GLN
36	2e	25	ARG
36	2e	31	LEU
36	2e	38	GLN
36	2e	41	VAL
36	2e	51	VAL
36	2e	55	VAL
36	2e	78	HIS
36	2e	136	MET
36	2e	149	GLU
37	2f	17	SER
37	2f	21	LEU
37	2f	63	TYR
37	2f	70	ASP
37	2f	75	LEU
37	2f	81	ILE
38	2g	9	VAL
38	2g	45	ASP
38	2g	51	GLN
38	2g	52	GLU
38	2g	59	LEU
38	2g	79	ARG
38	2g	94	ARG
38	2g	97	GLN
38	2g	114	ARG
38	2g	115	ARG
39	2h	39	LEU
39	2h	51	VAL
39	2h	52	ASP
39	2h	112	LEU
39	2h	122	ARG
40	2i	27	THR
40	2i	54	ASP
40	2i	56	LEU
40	2i	63	ILE
40	2i	65	VAL

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Mol	Chain	Res	Type
40	2i	66	ARG
40	2i	89	ASN
40	2i	102	LEU
40	2i	113	LYS
40	2i	128	ARG
41	2j	8	LEU
41	2j	9	ARG
41	2j	16	LEU
41	2j	29	ARG
41	2j	38	ILE
41	2j	46	ARG
41	2j	66	ARG
41	2j	71	LEU
41	2j	72	VAL
41	2j	81	THR
41	2j	89	ASP
42	2k	14	VAL
42	2k	96	ARG
42	2k	105	VAL
42	2k	116	HIS
42	2k	120	ARG
43	2l	18	VAL
43	2l	62	SER
43	2l	65	GLU
43	2l	118	SER
44	2m	27	LYS
44	2m	32	GLU
44	2m	81	LEU
44	2m	103	THR
44	2m	110	ARG
44	2m	117	VAL
45	2n	3	ARG
45	2n	18	VAL
45	2n	33	VAL
46	2o	7	GLU
46	2o	38	ARG
46	2o	39	LEU
46	2o	48	LYS
46	2o	84	LYS
46	2o	88	ARG
47	2p	1	MET
47	2p	2	VAL

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Mol	Chain	Res	Type
47	2p	8	ARG
47	2p	20	VAL
47	2p	45	THR
48	2q	14	LYS
48	2q	36	ILE
48	2q	63	ARG
48	2q	90	ILE
49	2r	25	THR
49	2r	26	LEU
49	2r	31	LEU
49	2r	61	LYS
49	2r	82	THR
49	2r	86	VAL
50	2s	4	SER
50	2s	20	LEU
50	2s	32	LYS
50	2s	37	ARG
50	2s	41	VAL
50	2s	43	GLU
50	2s	47	HIS
50	2s	48	THR
50	2s	71	LEU
50	2s	77	THR
51	2t	15	ARG
51	2t	45	GLN
51	2t	46	GLU
51	2t	93	GLU
51	2t	99	LEU
52	2u	7	ARG
52	2u	15	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (105) such sidechains are listed below:

Mol	Chain	Res	Type
4	1E	48	GLN
4	1E	121	ASN
5	1F	8	GLN
5	1F	69	HIS
5	1F	203	GLN
6	1G	26	GLN
8	1I	133	HIS
8	1I	139	GLN

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Mol	Chain	Res	Type
9	1N	8	GLN
10	1O	3	GLN
12	1Q	12	GLN
12	1Q	57	HIS
13	1R	13	HIS
15	1T	58	ASN
16	1U	104	GLN
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS
20	1Y	43	ASN
20	1Y	92	ASN
21	1Z	55	HIS
21	1Z	73	GLN
22	10	3	HIS
24	12	65	ASN
25	13	32	GLN
33	1b	40	HIS
33	1b	135	GLN
34	1c	6	HIS
34	1c	69	HIS
34	1c	162	GLN
34	1c	181	ASN
35	1d	116	GLN
35	1d	123	HIS
35	1d	125	HIS
35	1d	201	GLN
36	1e	20	GLN
36	1e	78	HIS
37	1f	57	GLN
37	1f	73	ASN
37	1f	100	ASN
38	1g	28	ASN
40	1i	31	GLN
40	1i	34	ASN
40	1i	58	HIS
40	1i	89	ASN
40	1i	124	GLN
41	1j	56	HIS
43	1l	99	HIS
44	1m	92	HIS
50	1s	23	ASN

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Mol	Chain	Res	Type
50	1s	47	HIS
50	1s	83	HIS
3	2D	87	ASN
4	2E	48	GLN
6	2G	27	ASN
9	2N	8	GLN
10	2O	3	GLN
10	2O	5	GLN
11	2P	70	GLN
12	2Q	12	GLN
12	2Q	57	HIS
14	2S	38	GLN
15	2T	58	ASN
15	2T	104	ASN
19	2X	82	GLN
20	2Y	43	ASN
21	2Z	34	ASN
21	2Z	55	HIS
21	2Z	73	GLN
21	2Z	151	HIS
25	23	32	GLN
26	24	20	ASN
26	24	46	GLN
33	2b	37	ASN
33	2b	45	GLN
33	2b	95	GLN
33	2b	135	GLN
33	2b	140	HIS
34	2c	6	HIS
34	2c	98	ASN
34	2c	162	GLN
35	2d	77	ASN
35	2d	160	GLN
36	2e	72	GLN
36	2e	73	ASN
37	2f	100	ASN
38	2g	28	ASN
38	2g	68	ASN
38	2g	86	GLN
40	2i	3	GLN
40	2i	58	HIS
40	2i	117	HIS

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Mol	Chain	Res	Type
41	2j	13	HIS
41	2j	33	GLN
41	2j	62	HIS
41	2j	69	ASN
42	2k	104	GLN
43	2l	99	HIS
44	2m	40	ASN
44	2m	92	HIS
45	2n	49	HIS
49	2r	63	GLN
50	2s	69	HIS
50	2s	83	HIS
51	2t	75	ASN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2863/2915 (98%)	403 (14%)	30 (1%)
1	2A	2790/2915 (95%)	441 (15%)	26 (0%)
2	1B	119/121 (98%)	11 (9%)	0
2	2B	118/121 (97%)	21 (17%)	0
32	1a	1494/1521 (98%)	227 (15%)	0
32	2a	1498/1521 (98%)	252 (16%)	0
53	1v	12/24 (50%)	3 (25%)	0
53	2v	12/24 (50%)	3 (25%)	0
54	1w	70/76 (92%)	21 (30%)	0
54	2w	67/76 (88%)	22 (32%)	0
55	1x	75/77 (97%)	5 (6%)	0
55	2x	75/77 (97%)	5 (6%)	0
56	1y	71/76 (93%)	32 (45%)	0
56	2y	69/76 (90%)	25 (36%)	0
All	All	9333/9620 (97%)	1471 (15%)	56 (0%)

All (1471) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	15	G
1	1A	34	C
1	1A	45	C
1	1A	55	G

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Mol	Chain	Res	Type
1	1A	61	G
1	1A	71	A
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	95	G
1	1A	118	A
1	1A	119	A
1	1A	120	U
1	1A	181	A
1	1A	182	A
1	1A	196	A
1	1A	205	G
1	1A	215	G
1	1A	216	A
1	1A	222	A
1	1A	228	A
1	1A	229	A
1	1A	233	A
1	1A	248	G
1	1A	269	U
1	1A	271(K)	U
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(O)	C
1	1A	271(S)	G
1	1A	272(A)	U
1	1A	272(B)	G
1	1A	272(I)	U
1	1A	275	G
1	1A	279	C
1	1A	283	A
1	1A	311	A
1	1A	329	G
1	1A	330	A
1	1A	352	G
1	1A	353	G
1	1A	363	G
1	1A	363(B)	G
1	1A	386	G
1	1A	396	G
1	1A	405	U

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Mol	Chain	Res	Type
1	1A	411	G
1	1A	412	A
1	1A	421	U
1	1A	428	A
1	1A	444	C
1	1A	448	U
1	1A	456	C
1	1A	457	A
1	1A	481	G
1	1A	505	A
1	1A	509	C
1	1A	530	G
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	563	G
1	1A	573	G
1	1A	575	A
1	1A	592	G
1	1A	603	A
1	1A	604	G
1	1A	607	U
1	1A	614(B)	G
1	1A	615	G
1	1A	627	A
1	1A	637	A
1	1A	645	C
1	1A	646	A
1	1A	652(D)	C
1	1A	652(E)	G
1	1A	652(F)	G
1	1A	669	G
1	1A	686	G
1	1A	717	G
1	1A	730	C
1	1A	746	A
1	1A	747	U
1	1A	764	A
1	1A	765	G
1	1A	775	G

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Mol	Chain	Res	Type
1	1A	776	G
1	1A	782	A
1	1A	784	A
1	1A	785	G
1	1A	789	A
1	1A	792	G
1	1A	805	G
1	1A	812	C
1	1A	819	A
1	1A	827	U
1	1A	828	U
1	1A	859	G
1	1A	866	A
1	1A	877	U
1	1A	879	G
1	1A	880	G
1	1A	882	G
1	1A	883	G
1	1A	884	C
1	1A	885	C
1	1A	886	C
1	1A	887	A
1	1A	889	C
1	1A	890	A
1	1A	893	C
1	1A	894	C
1	1A	896	A
1	1A	897	C
1	1A	898	C
1	1A	899	A
1	1A	910	A
1	1A	932	G
1	1A	945	A
1	1A	946	G
1	1A	953	A
1	1A	959	A
1	1A	961	C
1	1A	974	G
1	1A	975	C
1	1A	983	A
1	1A	996	A
1	1A	1008	C

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Mol	Chain	Res	Type
1	1A	1012	U
1	1A	1013	C
1	1A	1022	G
1	1A	1026	U
1	1A	1027	A
1	1A	1033	U
1	1A	1038	C
1	1A	1040	C
1	1A	1044	G
1	1A	1046	A
1	1A	1047	G
1	1A	1048	A
1	1A	1054	A
1	1A	1055	G
1	1A	1057	A
1	1A	1058	G
1	1A	1059	G
1	1A	1063	G
1	1A	1066	U
1	1A	1071	G
1	1A	1073	A
1	1A	1075	C
1	1A	1076	C
1	1A	1078	U
1	1A	1079	C
1	1A	1081	U
1	1A	1082	U
1	1A	1083	U
1	1A	1087	G
1	1A	1088	A
1	1A	1089	G
1	1A	1090	U
1	1A	1093	G
1	1A	1094	U
1	1A	1097	U
1	1A	1098	A
1	1A	1100	C
1	1A	1101	U
1	1A	1110	G
1	1A	1112	G
1	1A	1115	G
1	1A	1116	C

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Mol	Chain	Res	Type
1	1A	1128	A
1	1A	1135	C
1	1A	1136	G
1	1A	1155	A
1	1A	1171	G
1	1A	1173	G
1	1A	1174	A
1	1A	1175	U
1	1A	1176	G
1	1A	1177	A
1	1A	1178	C
1	1A	1218	C
1	1A	1253	A
1	1A	1256	G
1	1A	1271	G
1	1A	1272	A
1	1A	1273	U
1	1A	1281	G
1	1A	1300	U
1	1A	1301	A
1	1A	1303	G
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1370	C
1	1A	1380	G
1	1A	1384	A
1	1A	1385	G
1	1A	1395	A
1	1A	1396	U
1	1A	1416	G
1	1A	1417	C
1	1A	1420	U
1	1A	1421	G
1	1A	1428	C
1	1A	1445	A
1	1A	1450	G
1	1A	1455	G
1	1A	1461	G
1	1A	1467	C
1	1A	1482	G
1	1A	1493	C

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Mol	Chain	Res	Type
1	1A	1494	A
1	1A	1508	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1539	G
1	1A	1540	U
1	1A	1542	A
1	1A	1558	A
1	1A	1566	A
1	1A	1569	A
1	1A	1578	U
1	1A	1580	A
1	1A	1584	C
1	1A	1608	A
1	1A	1610	A
1	1A	1648	C
1	1A	1674	G
1	1A	1696	G
1	1A	1700	A
1	1A	1701	A
1	1A	1703	G
1	1A	1722	A
1	1A	1756	G
1	1A	1762	A
1	1A	1763	G
1	1A	1764	G
1	1A	1773	A
1	1A	1780	A
1	1A	1782	C
1	1A	1791	A
1	1A	1800	C
1	1A	1801	G
1	1A	1816	G
1	1A	1817	G
1	1A	1829	A
1	1A	1839	G
1	1A	1847	A
1	1A	1877	A
1	1A	1878	G
1	1A	1889	A
1	1A	1900	A
1	1A	1906	G

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Mol	Chain	Res	Type
1	1A	1929	G
1	1A	1930	G
1	1A	1937	A
1	1A	1938	A
1	1A	1955	U
1	1A	1963	U
1	1A	1967	C
1	1A	1970	A
1	1A	1971	A
1	1A	1972	A
1	1A	1992	G
1	1A	1993	U
1	1A	1997	G
1	1A	2020	A
1	1A	2023	G
1	1A	2031	A
1	1A	2032	G
1	1A	2033	A
1	1A	2043	C
1	1A	2055	C
1	1A	2056	G
1	1A	2060	A
1	1A	2061	G
1	1A	2069	G
1	1A	2101	G
1	1A	2108	C
1	1A	2113	U
1	1A	2116	G
1	1A	2118	U
1	1A	2121	G
1	1A	2127	G
1	1A	2129	C
1	1A	2131	G
1	1A	2132	U
1	1A	2133	G
1	1A	2134	A
1	1A	2135	A
1	1A	2136	C
1	1A	2140	C
1	1A	2142	C
1	1A	2143	C
1	1A	2144	U

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Mol	Chain	Res	Type
1	1A	2146	C
1	1A	2148	G
1	1A	2150	U
1	1A	2151	G
1	1A	2156	G
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2165	G
1	1A	2166	G
1	1A	2167	U
1	1A	2168	G
1	1A	2171	A
1	1A	2172	U
1	1A	2173	A
1	1A	2174	C
1	1A	2181	G
1	1A	2182	G
1	1A	2184	G
1	1A	2189	U
1	1A	2192	G
1	1A	2193	G
1	1A	2198	A
1	1A	2206	G
1	1A	2207	G
1	1A	2208	A
1	1A	2219	G
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2283	C
1	1A	2287	A
1	1A	2305	A
1	1A	2308	G
1	1A	2320	A
1	1A	2325	G
1	1A	2334	G
1	1A	2336	A
1	1A	2347	C
1	1A	2350	C
1	1A	2361	A
1	1A	2372	G

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Mol	Chain	Res	Type
1	1A	2379	G
1	1A	2383	G
1	1A	2385	C
1	1A	2396	G
1	1A	2406	U
1	1A	2422	A
1	1A	2423	U
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2431	U
1	1A	2435	A
1	1A	2439	A
1	1A	2441	C
1	1A	2448	A
1	1A	2476	A
1	1A	2478	A
1	1A	2491	U
1	1A	2502	G
1	1A	2505	G
1	1A	2518	A
1	1A	2529	G
1	1A	2535	G
1	1A	2554	U
1	1A	2566	A
1	1A	2567	G
1	1A	2573	C
1	1A	2602	A
1	1A	2609	U
1	1A	2611	U
1	1A	2612	C
1	1A	2629	A
1	1A	2630	G
1	1A	2654	A
1	1A	2663	G
1	1A	2689	U
1	1A	2690	C
1	1A	2691	C
1	1A	2702	U
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A

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Mol	Chain	Res	Type
1	1A	2714	G
1	1A	2726	U
1	1A	2733	A
1	1A	2765	A
1	1A	2778	A
1	1A	2790	A
1	1A	2791	C
1	1A	2793	G
1	1A	2794	C
1	1A	2802	G
1	1A	2807	G
1	1A	2820	A
1	1A	2821	A
1	1A	2835	A
1	1A	2872	G
1	1A	2876	G
1	1A	2880	C
1	1A	2892	A
1	1A	2894	G
1	1A	2895	U
2	1B	2	C
2	1B	12	C
2	1B	13	A
2	1B	35	U
2	1B	45	A
2	1B	50	G
2	1B	56	G
2	1B	67	G
2	1B	73	A
2	1B	84	C
2	1B	110	G
32	1a	6	G
32	1a	7	G
32	1a	9	G
32	1a	32	A
32	1a	39	G
32	1a	48	C
32	1a	50	A
32	1a	51	A
32	1a	52	G
32	1a	61	G
32	1a	76	C

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Mol	Chain	Res	Type
32	1a	77	G
32	1a	79	G
32	1a	91	C
32	1a	92	C
32	1a	98	G
32	1a	116	A
32	1a	121	C
32	1a	131	C
32	1a	142	G
32	1a	162	A
32	1a	163	C
32	1a	165	C
32	1a	174	C
32	1a	180	U
32	1a	182	U
32	1a	189(C)	C
32	1a	189(H)	G
32	1a	195	A
32	1a	197	A
32	1a	203	U
32	1a	204	U
32	1a	220	G
32	1a	247	G
32	1a	251	G
32	1a	258	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	301	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	342	C
32	1a	347	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	383	A

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Mol	Chain	Res	Type
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	422	C
32	1a	424	G
32	1a	429	U
32	1a	439	A
32	1a	441	A
32	1a	442	C
32	1a	452	A
32	1a	457	C
32	1a	461	A
32	1a	470	C
32	1a	482	A
32	1a	485	G
32	1a	496	A
32	1a	498	U
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	521	G
32	1a	524	G
32	1a	527	G7M
32	1a	531	U
32	1a	532	A
32	1a	547	A
32	1a	559	A
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	587	G
32	1a	592	G
32	1a	596	C
32	1a	607	A
32	1a	630	G

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Mol	Chain	Res	Type
32	1a	631	G
32	1a	653	A
32	1a	665	A
32	1a	671	G
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	723	U
32	1a	731	G
32	1a	749	C
32	1a	755	G
32	1a	777	A
32	1a	793	U
32	1a	794	A
32	1a	815	A
32	1a	817	C
32	1a	821	G
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	870	U
32	1a	874	G
32	1a	902	G
32	1a	914	A
32	1a	916	G
32	1a	926	G
32	1a	927	G
32	1a	934	C
32	1a	942	G
32	1a	960	U
32	1a	961	U
32	1a	968	A
32	1a	969	A
32	1a	972	C
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	992	U
32	1a	993	G
32	1a	997	U

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Mol	Chain	Res	Type
32	1a	1000	U
32	1a	1002	G
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1017	G
32	1a	1020	U
32	1a	1022	G
32	1a	1023	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C
32	1a	1028	C
32	1a	1029	C
32	1a	1030	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1030(D)	A
32	1a	1031	G
32	1a	1033	G
32	1a	1036	G
32	1a	1037	C
32	1a	1039	C
32	1a	1044	A
32	1a	1053	G
32	1a	1068	G
32	1a	1081	G
32	1a	1094	G
32	1a	1095	U
32	1a	1101	A
32	1a	1108	G
32	1a	1123	A
32	1a	1124	G
32	1a	1125	U
32	1a	1127	G
32	1a	1132	C
32	1a	1134	G
32	1a	1135	U
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1146	A

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Mol	Chain	Res	Type
32	1a	1152	A
32	1a	1154	G
32	1a	1157	A
32	1a	1159	U
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1200	C
32	1a	1202	G
32	1a	1213	A
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1270	C
32	1a	1275	A
32	1a	1278	U
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U
32	1a	1320	C
32	1a	1338	G
32	1a	1340	A
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1363(A)	A
32	1a	1370	G
32	1a	1397	C
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1446	U
32	1a	1452	C
32	1a	1456	G
32	1a	1492	A

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Mol	Chain	Res	Type
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
53	1v	13	A
53	1v	14	A
53	1v	24	A
54	1w	2	C
54	1w	3	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	9	A
54	1w	14	A
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	23	A
54	1w	24	G
54	1w	46	G7M
54	1w	47	U
54	1w	48	C
54	1w	50	U
54	1w	62	C
54	1w	66	U
54	1w	69	G
54	1w	73	A
54	1w	74	C
55	1x	9	G
55	1x	46	G
55	1x	47	U
55	1x	61	C
55	1x	69	C
56	1y	5	G
56	1y	8	4SU
56	1y	9	A
56	1y	11	C
56	1y	13	C
56	1y	19	G
56	1y	20	U

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Mol	Chain	Res	Type
56	1y	21	A
56	1y	23	A
56	1y	28	G
56	1y	35	A
56	1y	36	A
56	1y	44	G
56	1y	45	U
56	1y	46	G7M
56	1y	47	U
56	1y	48	C
56	1y	49	C
56	1y	50	U
56	1y	51	U
56	1y	56	C
56	1y	57	G
56	1y	58	A
56	1y	59	U
56	1y	61	C
56	1y	62	C
56	1y	65	G
56	1y	66	U
56	1y	69	G
56	1y	70	G
56	1y	71	G
56	1y	72	C
1	2A	12	U
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	84	A
1	2A	90	U
1	2A	95	G
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	119	A
1	2A	120	U
1	2A	154(A)	C

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Mol	Chain	Res	Type
1	2A	157	U
1	2A	173	G
1	2A	181	A
1	2A	196	A
1	2A	199	A
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	222	A
1	2A	225	A
1	2A	228	A
1	2A	229	A
1	2A	230	U
1	2A	233	A
1	2A	248	G
1	2A	266	G
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	272(B)	G
1	2A	277	C
1	2A	278	A
1	2A	283	A
1	2A	311	A
1	2A	312	G
1	2A	327	G
1	2A	329	G
1	2A	330	A
1	2A	352	G
1	2A	363(B)	G
1	2A	372	G
1	2A	380	U
1	2A	386	G
1	2A	396	G
1	2A	405	U
1	2A	411	G
1	2A	412	A
1	2A	421	U
1	2A	444	C
1	2A	447	A

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Mol	Chain	Res	Type
1	2A	454	A
1	2A	455	C
1	2A	456	C
1	2A	457	A
1	2A	481	G
1	2A	494	G
1	2A	505	A
1	2A	508	G
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	563	G
1	2A	568	U
1	2A	573	G
1	2A	574	C
1	2A	575	A
1	2A	586	A
1	2A	588	U
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	615	G
1	2A	616	G
1	2A	627	A
1	2A	634	C
1	2A	637	A
1	2A	645	C
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	668	G
1	2A	669	G
1	2A	686	G
1	2A	717	G
1	2A	730	C
1	2A	752	A
1	2A	753	C
1	2A	771	G
1	2A	775	G

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Mol	Chain	Res	Type
1	2A	776	G
1	2A	782	A
1	2A	784	A
1	2A	785	G
1	2A	792	G
1	2A	805	G
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	857	C
1	2A	859	G
1	2A	866	A
1	2A	874	G
1	2A	875	G
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	883	G
1	2A	884	C
1	2A	886	C
1	2A	887	A
1	2A	888	C
1	2A	889	C
1	2A	893	C
1	2A	894	C
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	903	C
1	2A	910	A
1	2A	917	A
1	2A	932	G
1	2A	938	G
1	2A	941	A
1	2A	945	A
1	2A	946	G
1	2A	953	A
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C

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Mol	Chain	Res	Type
1	2A	983	A
1	2A	996	A
1	2A	999	U
1	2A	1005	C
1	2A	1012	U
1	2A	1013	C
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U
1	2A	1027	A
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1041	C
1	2A	1043	C
1	2A	1116	C
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1144	G
1	2A	1171	G
1	2A	1188	U
1	2A	1205	U
1	2A	1211	U
1	2A	1220	A
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	1303	G
1	2A	1314	C
1	2A	1345	C
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1368	G

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Mol	Chain	Res	Type
1	2A	1370	C
1	2A	1379	A
1	2A	1385	G
1	2A	1395	A
1	2A	1416	G
1	2A	1417	C
1	2A	1421	G
1	2A	1428	C
1	2A	1437	C
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G
1	2A	1455	G
1	2A	1460	A
1	2A	1461	G
1	2A	1467	C
1	2A	1471	A
1	2A	1478	G
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1494	A
1	2A	1495	A
1	2A	1496	A
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1531	C
1	2A	1532	C
1	2A	1540	U
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	1608	A
1	2A	1610	A
1	2A	1639	U
1	2A	1640	C

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Mol	Chain	Res	Type
1	2A	1648	C
1	2A	1654	A
1	2A	1674	G
1	2A	1696	G
1	2A	1700	A
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1739	U
1	2A	1740	G
1	2A	1745(A)	C
1	2A	1746	G
1	2A	1756	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1782	C
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1812	A
1	2A	1816	G
1	2A	1829	A
1	2A	1839	G
1	2A	1847	A
1	2A	1848	A
1	2A	1877	A
1	2A	1878	G
1	2A	1900	A
1	2A	1906	G
1	2A	1913	A
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1967	C
1	2A	1970	A

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Mol	Chain	Res	Type
1	2A	1971	A
1	2A	1972	A
1	2A	1984	G
1	2A	1992	G
1	2A	1993	U
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2032	G
1	2A	2033	A
1	2A	2043	C
1	2A	2055	C
1	2A	2056	G
1	2A	2060	A
1	2A	2061	G
1	2A	2069	G
1	2A	2099	U
1	2A	2100	G
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2116	G
1	2A	2117	A
1	2A	2120	G
1	2A	2122	U
1	2A	2126	A
1	2A	2127	G
1	2A	2128	C
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	2137	C
1	2A	2138	C
1	2A	2139	C
1	2A	2141	G
1	2A	2142	C
1	2A	2145	C
1	2A	2146	C

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Mol	Chain	Res	Type
1	2A	2148	G
1	2A	2149	G
1	2A	2150	U
1	2A	2151	G
1	2A	2157	G
1	2A	2158	A
1	2A	2159	G
1	2A	2161	C
1	2A	2162	G
1	2A	2165	G
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2169	A
1	2A	2171	A
1	2A	2172	U
1	2A	2176	A
1	2A	2178	C
1	2A	2183	C
1	2A	2186	G
1	2A	2189	U
1	2A	2192	G
1	2A	2193	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	2280	G
1	2A	2283	C
1	2A	2287	A
1	2A	2305	A
1	2A	2308	G
1	2A	2312	U
1	2A	2319	G
1	2A	2320	A
1	2A	2321	G

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Mol	Chain	Res	Type
1	2A	2325	G
1	2A	2334	G
1	2A	2336	A
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2376	A
1	2A	2383	G
1	2A	2385	C
1	2A	2396	G
1	2A	2403	C
1	2A	2406	U
1	2A	2422	A
1	2A	2423	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	2465	C
1	2A	2469	A
1	2A	2471	C
1	2A	2474	C
1	2A	2476	A
1	2A	2478	A
1	2A	2490	G
1	2A	2491	U
1	2A	2494	G
1	2A	2502	G
1	2A	2505	G
1	2A	2506	U
1	2A	2507	C
1	2A	2518	A
1	2A	2520	C
1	2A	2529	G
1	2A	2549	G
1	2A	2554	U
1	2A	2555	U
1	2A	2566	A

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Mol	Chain	Res	Type
1	2A	2567	G
1	2A	2573	C
1	2A	2585	U
1	2A	2602	A
1	2A	2609	U
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2634	G
1	2A	2654	A
1	2A	2663	G
1	2A	2689	U
1	2A	2690	C
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2718	G
1	2A	2726	U
1	2A	2733	A
1	2A	2751	G
1	2A	2761	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2789	C
1	2A	2793	G
1	2A	2794	C
1	2A	2802	G
1	2A	2803	C
1	2A	2807	G
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A
1	2A	2835	A
1	2A	2839	G
1	2A	2872	G
1	2A	2873	A
1	2A	2880	C

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Mol	Chain	Res	Type
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	9	G
2	2B	13	A
2	2B	17	C
2	2B	25	A
2	2B	33	G
2	2B	34	U
2	2B	41	U
2	2B	45	A
2	2B	53	A
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	84	C
2	2B	88	C
2	2B	108	U
2	2B	109	C
2	2B	110	G
2	2B	113	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	52	G
32	2a	66	G
32	2a	73	G
32	2a	80	G
32	2a	89	C
32	2a	101	A
32	2a	116	A
32	2a	121	C

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Mol	Chain	Res	Type
32	2a	131	C
32	2a	144	G
32	2a	146	G
32	2a	156	G
32	2a	163	C
32	2a	182	U
32	2a	189(E)	U
32	2a	189(F)	U
32	2a	189(J)	G
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	231	G
32	2a	247	G
32	2a	251	G
32	2a	266	G
32	2a	267	C
32	2a	289	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	345	C
32	2a	350	G
32	2a	351	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	424	G
32	2a	429	U

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Mol	Chain	Res	Type
32	2a	430	A
32	2a	439	A
32	2a	442	C
32	2a	452	A
32	2a	457	C
32	2a	470	C
32	2a	475	G
32	2a	476	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	G7M
32	2a	528	C
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	547	A
32	2a	558	G
32	2a	559	A
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	596	C
32	2a	630	G
32	2a	639	G
32	2a	653	A
32	2a	665	A
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	723	U
32	2a	724	G
32	2a	731	G
32	2a	733	A

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Mol	Chain	Res	Type
32	2a	749	C
32	2a	755	G
32	2a	773	G
32	2a	774	G
32	2a	777	A
32	2a	787	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	817	C
32	2a	821	G
32	2a	827	U
32	2a	828	A
32	2a	840	C
32	2a	841	U
32	2a	851	G
32	2a	859	A
32	2a	874	G
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	931	C
32	2a	932	C
32	2a	934	C
32	2a	935	A
32	2a	958	A
32	2a	960	U
32	2a	961	U
32	2a	963	G
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	972	C
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	992	U
32	2a	993	G
32	2a	994	A
32	2a	997	U

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Mol	Chain	Res	Type
32	2a	998	G
32	2a	999	C
32	2a	1002	G
32	2a	1003	G
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1016	A
32	2a	1019	C
32	2a	1020	U
32	2a	1021	G
32	2a	1022	G
32	2a	1023	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1028	C
32	2a	1029	C
32	2a	1030	C
32	2a	1030(A)	G
32	2a	1031	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	1051	C
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1081	G
32	2a	1086	U
32	2a	1092	A
32	2a	1093	A
32	2a	1094	G
32	2a	1095	U
32	2a	1097	C
32	2a	1101	A
32	2a	1108	G

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Mol	Chain	Res	Type
32	2a	1125	U
32	2a	1127	G
32	2a	1129	C
32	2a	1130	A
32	2a	1133	G
32	2a	1136	U
32	2a	1137	C
32	2a	1138	G
32	2a	1139	G
32	2a	1141	C
32	2a	1146	A
32	2a	1152	A
32	2a	1157	A
32	2a	1158	C
32	2a	1159	U
32	2a	1160	G
32	2a	1172	C
32	2a	1180	A
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1201	A
32	2a	1202	G
32	2a	1211	U
32	2a	1213	A
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1246	C
32	2a	1255	G
32	2a	1256	A
32	2a	1257	U
32	2a	1258	G
32	2a	1260	C
32	2a	1270	C
32	2a	1272	G
32	2a	1273	G
32	2a	1277	C
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A

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Mol	Chain	Res	Type
32	2a	1287	A
32	2a	1299	A
32	2a	1302	U
32	2a	1303	C
32	2a	1338	G
32	2a	1346	A
32	2a	1347	G
32	2a	1363	C
32	2a	1370	G
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	1457	G
32	2a	1492	A
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1517	G
32	2a	1529	G
32	2a	1530	G
32	2a	1531	A
32	2a	1532	U
53	2v	13	A
53	2v	17	U
53	2v	24	A
54	2w	5	G
54	2w	7	A
54	2w	8	4SU
54	2w	9	A
54	2w	13	C
54	2w	14	A
54	2w	19	G
54	2w	22	G
54	2w	31	A
54	2w	46	G7M
54	2w	47	U
54	2w	48	C
54	2w	51	U
54	2w	61	C

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Mol	Chain	Res	Type
54	2w	64	A
54	2w	65	G
54	2w	66	U
54	2w	69	G
54	2w	70	G
54	2w	72	C
54	2w	73	A
54	2w	74	C
55	2x	9	G
55	2x	19	G
55	2x	20	U
55	2x	46	G
55	2x	47	U
56	2y	7	A
56	2y	15	G
56	2y	19	G
56	2y	23	A
56	2y	27	G
56	2y	28	G
56	2y	34	G
56	2y	38	A
56	2y	41	C
56	2y	43	C
56	2y	45	U
56	2y	49	C
56	2y	52	G
56	2y	53	G
56	2y	55	PSU
56	2y	56	C
56	2y	57	G
56	2y	58	A
56	2y	59	U
56	2y	62	C
56	2y	63	G
56	2y	65	G
56	2y	69	G
56	2y	70	G
56	2y	73	A

All (56) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type

Mol	Chain	Res	Type
1	1A	195	A
1	1A	196	A
1	1A	266	G
1	1A	278	A
1	1A	548	A
1	1A	669	G
1	1A	685	A
1	1A	746	A
1	1A	764	A
1	1A	774	A
1	1A	827	U
1	1A	974	G
1	1A	1047	G
1	1A	1067	A
1	1A	1174	A
1	1A	1176	G
1	1A	1379	A
1	1A	1442	G
1	1A	1508	A
1	1A	1608	A
1	1A	1992	G
1	1A	2134	A
1	1A	2181	G
1	1A	2183	C
1	1A	2406	U
1	1A	2422	A
1	1A	2430	A
1	1A	2439	A
1	1A	2629	A
1	1A	2689	U
1	2A	196	A
1	2A	228	A
1	2A	266	G
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	746	A
1	2A	752	A
1	2A	774	A
1	2A	827	U
1	2A	856	C

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Mol	Chain	Res	Type
1	2A	900	A
1	2A	1142(A)	A
1	2A	1210	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G
1	2A	2119	A
1	2A	2126	A
1	2A	2156	G
1	2A	2406	U
1	2A	2439	A
1	2A	2689	U

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

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	$\#\|Z\| > 2$
56	MIA	1y	37	56	18,24,32	1.18	2 (11%)	18,35,47	1.21	2 (11%)
32	4OC	1a	1402	32	20,23,24	0.76	0	26,32,35	0.97	1 (3%)
32	5MC	2a	1400	32	18,22,23	1.00	2 (11%)	26,32,35	1.21	3 (11%)
32	5MC	2a	1407	32	18,22,23	0.98	2 (11%)	26,32,35	1.19	3 (11%)
56	PSU	1y	55	56	18,21,22	1.35	2 (11%)	22,30,33	1.92	4 (18%)
56	5MU	1y	54	56	19,22,23	1.48	4 (21%)	28,32,35	1.79	5 (17%)
55	5MU	1x	54	55,57	19,22,23	1.43	5 (26%)	28,32,35	1.96	6 (21%)
1	OMC	2A	1920	1	19,22,23	0.85	0	26,31,34	0.94	1 (3%)
1	2MA	1A	2503	1,57	17,25,26	1.08	2 (11%)	17,37,40	0.98	1 (5%)
54	PSU	1w	55	54	18,21,22	1.35	2 (11%)	22,30,33	1.89	3 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	PSU	2A	1917	1	18,21,22	1.33	2 (11%)	22,30,33	1.89	3 (13%)
1	PSU	1A	1911	1	18,21,22	1.38	2 (11%)	22,30,33	1.88	3 (13%)
32	5MC	1a	1404	32	18,22,23	1.02	2 (11%)	26,32,35	1.21	4 (15%)
54	5MU	1w	54	54	19,22,23	1.48	5 (26%)	28,32,35	1.86	6 (21%)
56	G7M	1y	46	56	20,26,27	1.33	2 (10%)	17,39,42	0.58	0
1	5MC	2A	1962	1	18,22,23	0.98	2 (11%)	26,32,35	1.15	2 (7%)
54	PSU	2w	39	54	18,21,22	1.35	2 (11%)	22,30,33	1.77	3 (13%)
32	5MC	1a	967	32	18,22,23	0.93	2 (11%)	26,32,35	1.19	3 (11%)
54	8AN	1w	76	54,1,62	19,24,25	1.47	4 (21%)	13,35,38	1.68	1 (7%)
1	PSU	1A	1917	1	18,21,22	1.30	2 (11%)	22,30,33	1.88	3 (13%)
56	PSU	2y	55	56	18,21,22	1.41	2 (11%)	22,30,33	1.87	4 (18%)
54	MIA	1w	37	54	24,31,32	2.09	3 (12%)	26,44,47	2.65	10 (38%)
32	5MC	1a	1407	32	18,22,23	0.94	2 (11%)	26,32,35	1.12	3 (11%)
56	4SU	1y	8	56	18,21,22	1.69	6 (33%)	26,30,33	1.79	5 (19%)
56	MIA	2y	37	56	18,24,32	1.18	2 (11%)	18,35,47	1.30	2 (11%)
1	OMG	1A	2251	55,1,57	18,26,27	0.95	1 (5%)	19,38,41	1.09	2 (10%)
54	4SU	2w	8	54	18,21,22	1.61	3 (16%)	26,30,33	2.42	5 (19%)
32	5MC	2a	1404	32	18,22,23	0.97	2 (11%)	26,32,35	1.12	2 (7%)
32	M2G	2a	966	32	20,27,28	1.37	3 (15%)	22,40,43	0.96	1 (4%)
1	PSU	1A	2605	1,57	18,21,22	1.39	3 (16%)	22,30,33	1.90	3 (13%)
1	5MU	1A	1939	1,57	19,22,23	1.55	6 (31%)	28,32,35	1.97	7 (25%)
56	PSU	2y	32	56	18,21,22	1.33	2 (11%)	22,30,33	1.84	3 (13%)
1	5MC	2A	1942	1	18,22,23	0.93	2 (11%)	26,32,35	1.09	2 (7%)
56	PSU	1y	39	56	18,21,22	1.40	2 (11%)	22,30,33	1.72	4 (18%)
56	PSU	2y	39	56	18,21,22	1.41	2 (11%)	22,30,33	1.56	3 (13%)
54	PSU	1w	39	54	18,21,22	1.32	2 (11%)	22,30,33	1.92	4 (18%)
32	M2G	1a	966	32	20,27,28	1.49	3 (15%)	22,40,43	0.95	2 (9%)
32	G7M	1a	527	32,57	20,26,27	1.20	2 (10%)	17,39,42	0.56	0
32	MA6	1a	1518	32	18,26,27	0.80	0	19,38,41	1.40	2 (10%)
32	PSU	2a	516	32	18,21,22	1.32	2 (11%)	22,30,33	1.88	3 (13%)
54	G7M	1w	46	54	20,26,27	1.21	2 (10%)	17,39,42	0.64	0
56	G7M	2y	46	56	20,26,27	1.42	3 (15%)	17,39,42	0.77	0
54	PSU	2w	32	54	18,21,22	1.36	2 (11%)	22,30,33	1.70	3 (13%)
55	5MC	2x	32	55	18,22,23	1.00	2 (11%)	26,32,35	1.27	3 (11%)
32	UR3	2a	1498	32	19,22,23	1.02	2 (10%)	26,32,35	1.45	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
56	PSU	1y	32	56	18,21,22	1.33	2 (11%)	22,30,33	1.81	3 (13%)
32	4OC	2a	1402	32	20,23,24	0.78	0	26,32,35	0.98	1 (3%)
55	5MC	1x	32	55	18,22,23	0.98	2 (11%)	26,32,35	1.22	3 (11%)
1	OMG	2A	2251	55,1,57	18,26,27	0.99	1 (5%)	19,38,41	1.05	2 (10%)
1	5MU	2A	1939	1,57	19,22,23	1.44	6 (31%)	28,32,35	2.26	6 (21%)
54	PSU	1w	32	54	18,21,22	1.37	3 (16%)	22,30,33	1.69	3 (13%)
55	8AN	1x	76	63,55,57	19,24,25	1.36	3 (15%)	13,35,38	1.91	2 (15%)
32	2MG	1a	1207	32	18,26,27	0.95	1 (5%)	16,38,41	1.05	2 (12%)
32	5MC	1a	1400	32	18,22,23	0.97	2 (11%)	26,32,35	1.17	3 (11%)
1	5MU	1A	1915	1	19,22,23	1.35	5 (26%)	28,32,35	2.18	8 (28%)
32	UR3	1a	1498	32	19,22,23	0.94	0	26,32,35	1.52	2 (7%)
32	5MC	2a	967	32	18,22,23	0.92	2 (11%)	26,32,35	1.11	2 (7%)
43	0TD	1l	92	43	7,9,10	4.91	1 (14%)	6,11,13	1.36	1 (16%)
55	4SU	2x	8	55,57	18,21,22	2.01	6 (33%)	26,30,33	1.36	6 (23%)
43	0TD	2l	92	43	7,9,10	4.74	1 (14%)	6,11,13	2.49	1 (16%)
1	2MA	2A	2503	1,57	17,25,26	1.04	1 (5%)	17,37,40	0.95	2 (11%)
32	MA6	2a	1519	32	18,26,27	0.79	0	19,38,41	1.59	2 (10%)
1	PSU	2A	2605	1	18,21,22	1.28	2 (11%)	22,30,33	1.89	3 (13%)
32	MA6	2a	1518	32	18,26,27	0.80	0	19,38,41	1.36	2 (10%)
1	5MC	1A	1962	1,57	18,22,23	0.92	2 (11%)	26,32,35	1.15	3 (11%)
56	5MU	2y	54	56	19,22,23	1.43	4 (21%)	28,32,35	1.75	5 (17%)
1	5MU	2A	1915	1	19,22,23	1.44	4 (21%)	28,32,35	2.08	6 (21%)
32	G7M	2a	527	32,57	20,26,27	1.22	2 (10%)	17,39,42	0.57	0
55	PSU	2x	55	55	18,21,22	1.35	2 (11%)	22,30,33	1.79	3 (13%)
54	PSU	2w	55	54	18,21,22	1.35	2 (11%)	22,30,33	1.87	3 (13%)
55	PSU	1x	55	55	18,21,22	1.33	2 (11%)	22,30,33	1.85	4 (18%)
54	MIA	2w	37	54	20,27,32	1.70	3 (15%)	22,39,47	1.87	6 (27%)
56	4SU	2y	8	56	18,21,22	1.63	4 (22%)	26,30,33	2.30	5 (19%)
55	8AN	2x	76	63,55,57	19,24,25	1.20	3 (15%)	13,35,38	1.87	2 (15%)
1	5MC	1A	1942	1	18,22,23	0.96	2 (11%)	26,32,35	1.22	3 (11%)
32	2MG	2a	1207	32	18,26,27	0.94	1 (5%)	16,38,41	1.08	2 (12%)
54	5MU	2w	54	54	19,22,23	1.36	5 (26%)	28,32,35	1.84	7 (25%)
54	4SU	1w	8	54	18,21,22	1.71	4 (22%)	26,30,33	1.91	4 (15%)
32	PSU	1a	516	32	18,21,22	1.34	2 (11%)	22,30,33	1.79	4 (18%)
55	5MU	2x	54	55	19,22,23	1.42	5 (26%)	28,32,35	2.11	6 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
55	4SU	1x	8	55	18,21,22	2.15	6 (33%)	26,30,33	1.68	7 (26%)
1	OMC	1A	1920	1	19,22,23	0.80	0	26,31,34	0.89	1 (3%)
1	OMU	1A	2552	1,57	19,22,23	1.10	2 (10%)	26,31,34	1.84	5 (19%)
54	G7M	2w	46	54	20,26,27	1.18	1 (5%)	17,39,42	1.16	2 (11%)
1	PSU	2A	1911	1	18,21,22	1.36	2 (11%)	22,30,33	1.96	3 (13%)
32	MA6	1a	1519	32	18,26,27	0.81	0	19,38,41	1.48	2 (10%)
1	OMU	2A	2552	1	19,22,23	1.06	0	26,31,34	1.80	5 (19%)
54	8AN	2w	76	54,1,62	19,24,25	1.49	5 (26%)	13,35,38	1.66	1 (7%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	MIA	1y	37	56	-	2/3/25/34	0/3/3/3
32	4OC	1a	1402	32	-	1/9/29/30	0/2/2/2
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
56	PSU	1y	55	56	-	1/7/25/26	0/2/2/2
56	5MU	1y	54	56	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	55,57	-	0/7/25/26	0/2/2/2
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
1	2MA	1A	2503	1,57	-	2/3/25/26	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
56	G7M	1y	46	56	-	1/3/25/26	0/3/3/3
1	5MC	2A	1962	1	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	0/7/25/26	0/2/2/2
54	8AN	1w	76	54,1,62	-	0/3/25/26	0/3/3/3
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
56	PSU	2y	55	56	-	3/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/11/33/34	0/3/3/3
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
56	4SU	1y	8	56	-	3/7/25/26	0/2/2/2
56	MIA	2y	37	56	-	3/3/25/34	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	OMG	1A	2251	55,1,57	-	0/5/27/28	0/3/3/3
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
1	PSU	1A	2605	1,57	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	1,57	-	0/7/25/26	0/2/2/2
56	PSU	2y	32	56	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
56	PSU	1y	39	56	-	0/7/25/26	0/2/2/2
56	PSU	2y	39	56	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
32	G7M	1a	527	32,57	-	3/3/25/26	0/3/3/3
32	MA6	1a	1518	32	-	0/7/29/30	0/3/3/3
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
54	G7M	1w	46	54	-	1/3/25/26	0/3/3/3
56	G7M	2y	46	56	-	0/3/25/26	0/3/3/3
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
56	PSU	1y	32	56	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	32	-	1/9/29/30	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	55,1,57	-	0/5/27/28	0/3/3/3
1	5MU	2A	1939	1,57	-	0/7/25/26	0/2/2/2
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
55	8AN	1x	76	63,55,57	-	3/3/25/26	0/3/3/3
32	2MG	1a	1207	32	-	0/5/27/28	0/3/3/3
32	5MC	1a	1400	32	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	2/7/12/14	-
55	4SU	2x	8	55,57	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	3/7/12/14	-
1	2MA	2A	2503	1,57	-	2/3/25/26	0/3/3/3
32	MA6	2a	1519	32	-	3/7/29/30	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	0/7/29/30	0/3/3/3
1	5MC	1A	1962	1,57	-	0/7/25/26	0/2/2/2
56	5MU	2y	54	56	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
32	G7M	2a	527	32,57	-	3/3/25/26	0/3/3/3
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	2/7/29/34	0/3/3/3
56	4SU	2y	8	56	-	1/7/25/26	0/2/2/2
55	8AN	2x	76	63,55,57	-	3/3/25/26	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	0/5/27/28	0/3/3/3
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
1	OMU	1A	2552	1,57	-	0/9/27/28	0/2/2/2
54	G7M	2w	46	54	-	3/3/25/26	0/3/3/3
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3
1	OMU	2A	2552	1	-	0/9/27/28	0/2/2/2
54	8AN	2w	76	54,1,62	-	0/3/25/26	0/3/3/3

All (208) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.54	1.69	1.82
43	2l	92	0TD	CB-SB	-12.26	1.69	1.82
54	1w	37	MIA	C13-C14	7.11	1.52	1.32
54	2w	37	MIA	C2-S10	-6.10	1.70	1.75
54	1w	37	MIA	C2-S10	-5.86	1.70	1.75
55	1x	8	4SU	C4-N3	-5.44	1.31	1.37
55	2x	8	4SU	C4-N3	-4.89	1.32	1.37
32	1a	966	M2G	C2-N3	4.61	1.36	1.30
32	2a	966	M2G	C2-N3	4.33	1.36	1.30
56	2y	46	G7M	C5-C4	4.31	1.47	1.39
56	2y	8	4SU	C4-S4	-4.30	1.60	1.68
54	2w	8	4SU	C4-S4	-4.28	1.60	1.68
54	1w	8	4SU	C4-S4	-4.28	1.60	1.68
56	1y	39	PSU	C6-C5	4.02	1.40	1.35
56	1y	46	G7M	C5-C4	4.02	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	1y	8	4SU	C4-S4	-4.01	1.60	1.68
55	1x	8	4SU	C4-S4	-3.98	1.60	1.68
56	2y	39	PSU	C6-C5	3.92	1.39	1.35
54	1w	76	8AN	O4'-C1'	3.90	1.46	1.41
56	2y	32	PSU	C6-C5	3.83	1.39	1.35
56	1y	55	PSU	C6-C5	3.81	1.39	1.35
55	2x	8	4SU	C4-S4	-3.81	1.61	1.68
55	1x	8	4SU	C2-N3	-3.79	1.31	1.38
54	2w	55	PSU	C6-C5	3.71	1.39	1.35
56	1y	32	PSU	C6-C5	3.68	1.39	1.35
54	2w	46	G7M	C5-C4	3.67	1.46	1.39
54	2w	39	PSU	C6-C5	3.66	1.39	1.35
32	1a	527	G7M	C5-C4	3.66	1.46	1.39
54	1w	55	PSU	C6-C5	3.63	1.39	1.35
54	1w	46	G7M	C5-C4	3.62	1.46	1.39
32	2a	516	PSU	C6-C5	3.59	1.39	1.35
54	2w	32	PSU	C6-C5	3.53	1.39	1.35
1	1A	1911	PSU	C6-C5	3.53	1.39	1.35
32	2a	527	G7M	C5-C4	3.52	1.46	1.39
1	2A	1917	PSU	C6-C5	3.43	1.39	1.35
1	2A	1911	PSU	C6-C5	3.38	1.39	1.35
55	2x	8	4SU	C2-N3	-3.36	1.32	1.38
55	2x	55	PSU	C6-C5	3.35	1.39	1.35
32	1a	516	PSU	C6-C5	3.33	1.39	1.35
54	1w	8	4SU	C4-N3	-3.30	1.34	1.37
54	2w	76	8AN	O4'-C1'	3.28	1.45	1.41
55	1x	55	PSU	C6-C5	3.26	1.39	1.35
54	1w	32	PSU	C6-C5	3.23	1.39	1.35
1	1A	1917	PSU	C6-C5	3.23	1.39	1.35
56	1y	8	4SU	C4-N3	-3.20	1.34	1.37
56	2y	55	PSU	C6-C5	3.16	1.39	1.35
55	1x	8	4SU	C5-C4	-3.16	1.38	1.42
54	1w	54	5MU	C6-C5	3.15	1.39	1.34
56	2y	54	5MU	C6-C5	3.09	1.39	1.34
1	2A	1939	5MU	C4-N3	-3.09	1.33	1.38
54	1w	39	PSU	C6-C5	3.08	1.38	1.35
1	2A	1915	5MU	C6-C5	3.01	1.39	1.34
1	2A	2605	PSU	C6-C5	2.99	1.38	1.35
1	1A	2605	PSU	C4-N3	-2.98	1.33	1.38
32	1a	966	M2G	C2-N2	2.96	1.40	1.35
55	1x	54	5MU	C6-C5	2.93	1.39	1.34
32	1a	1400	5MC	C6-C5	2.93	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	2605	PSU	C6-C5	2.93	1.38	1.35
32	2a	1404	5MC	C6-C5	2.91	1.39	1.34
1	1A	1939	5MU	C4-N3	-2.87	1.33	1.38
1	2A	1942	5MC	C6-C5	2.87	1.39	1.34
56	2y	37	MIA	C5-C4	2.86	1.48	1.40
55	2x	76	8AN	C5-C4	-2.85	1.33	1.40
1	2A	1939	5MU	C6-C5	2.85	1.39	1.34
54	2w	76	8AN	C5-C4	-2.85	1.33	1.40
55	2x	32	5MC	C6-C5	2.84	1.39	1.34
56	1y	37	MIA	C2-N3	2.84	1.36	1.32
56	1y	54	5MU	C6-C5	2.83	1.39	1.34
56	1y	37	MIA	C5-C4	2.81	1.48	1.40
55	2x	54	5MU	C6-C5	2.81	1.39	1.34
54	1w	32	PSU	C4-N3	-2.81	1.33	1.38
1	1A	1939	5MU	C6-C5	2.80	1.39	1.34
55	2x	8	4SU	C5-C4	-2.80	1.39	1.42
32	1a	1407	5MC	C6-C5	2.79	1.39	1.34
56	2y	37	MIA	C2-N3	2.78	1.36	1.32
1	2A	2251	OMG	C6-N1	-2.78	1.33	1.37
55	1x	76	8AN	C5-C4	-2.77	1.33	1.40
32	2a	1400	5MC	C6-C5	2.77	1.39	1.34
32	2a	1407	5MC	C6-C5	2.75	1.39	1.34
54	1w	76	8AN	C5-C4	-2.74	1.33	1.40
56	1y	54	5MU	C2-N1	2.74	1.42	1.38
55	1x	32	5MC	C6-C5	2.74	1.39	1.34
54	2w	37	MIA	C5-C4	2.72	1.48	1.40
1	1A	1911	PSU	C4-N3	-2.70	1.33	1.38
54	2w	8	4SU	C4-N3	-2.69	1.34	1.37
1	1A	1939	5MU	C2-N3	-2.69	1.33	1.38
55	1x	54	5MU	C4-N3	-2.68	1.33	1.38
32	1a	966	M2G	C6-N1	-2.68	1.33	1.37
1	1A	1942	5MC	C6-C5	2.66	1.39	1.34
54	1w	37	MIA	C5-C4	2.65	1.47	1.40
32	1a	1404	5MC	C6-C5	2.63	1.38	1.34
32	2a	967	5MC	C6-C5	2.63	1.38	1.34
56	2y	39	PSU	C4-N3	-2.63	1.34	1.38
1	2A	1962	5MC	C6-C5	2.62	1.38	1.34
54	2w	54	5MU	C6-C5	2.62	1.38	1.34
54	1w	39	PSU	C4-N3	-2.62	1.34	1.38
1	2A	1915	5MU	C2-N1	2.61	1.42	1.38
54	1w	54	5MU	C4-N3	-2.61	1.34	1.38
1	1A	1915	5MU	C6-C5	2.60	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1962	5MC	C6-C5	2.60	1.38	1.34
1	1A	1939	5MU	C6-N1	-2.60	1.33	1.38
55	2x	55	PSU	C4-N3	-2.59	1.34	1.38
56	1y	39	PSU	C4-N3	-2.57	1.34	1.38
1	2A	1917	PSU	C4-N3	-2.56	1.34	1.38
1	2A	1911	PSU	C4-N3	-2.56	1.34	1.38
56	1y	54	5MU	C4-N3	-2.54	1.34	1.38
56	2y	55	PSU	C4-N3	-2.54	1.34	1.38
55	1x	76	8AN	C6-C5	-2.53	1.33	1.43
1	1A	1942	5MC	C6-N1	-2.53	1.33	1.38
54	2w	54	5MU	C4-N3	-2.53	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.53	1.34	1.37
56	2y	8	4SU	C4-N3	-2.52	1.34	1.37
1	1A	1917	PSU	C4-N3	-2.52	1.34	1.38
55	2x	54	5MU	C2-N1	2.52	1.42	1.38
56	1y	8	4SU	C2-N1	2.51	1.42	1.38
56	1y	54	5MU	C4-C5	2.51	1.48	1.44
1	1A	1939	5MU	C4-C5	2.50	1.48	1.44
1	2A	1915	5MU	C4-C5	2.49	1.48	1.44
54	1w	54	5MU	C4-C5	2.48	1.48	1.44
55	2x	76	8AN	C6-C5	-2.48	1.34	1.43
32	1a	527	G7M	C6-N1	-2.47	1.34	1.37
1	1A	1915	5MU	C4-C5	2.47	1.48	1.44
32	1a	516	PSU	C4-N3	-2.47	1.34	1.38
54	2w	76	8AN	C6-C5	-2.47	1.34	1.43
1	2A	1962	5MC	C6-N1	-2.47	1.33	1.38
54	2w	39	PSU	C4-N3	-2.46	1.34	1.38
56	2y	46	G7M	C6-N1	-2.46	1.34	1.37
54	1w	76	8AN	C6-C5	-2.46	1.34	1.43
54	2w	55	PSU	C4-N3	-2.46	1.34	1.38
56	2y	54	5MU	C2-N1	2.45	1.42	1.38
32	2a	1400	5MC	C6-N1	-2.45	1.33	1.38
55	1x	55	PSU	C4-N3	-2.45	1.34	1.38
32	1a	967	5MC	C6-C5	2.45	1.38	1.34
1	2A	2503	2MA	C2-N3	2.44	1.36	1.31
56	1y	32	PSU	C4-N3	-2.44	1.34	1.38
56	2y	8	4SU	C2-N1	2.43	1.42	1.38
56	2y	54	5MU	C4-C5	2.41	1.48	1.44
55	2x	54	5MU	C4-N3	-2.41	1.34	1.38
54	1w	55	PSU	C4-N3	-2.40	1.34	1.38
32	2a	527	G7M	C6-N1	-2.40	1.34	1.37
1	1A	1915	5MU	C4-N3	-2.39	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	2x	54	5MU	C4-C5	2.39	1.48	1.44
32	1a	1404	5MC	C6-N1	-2.38	1.34	1.38
1	2A	1915	5MU	C4-N3	-2.37	1.34	1.38
54	1w	8	4SU	C5-C4	-2.37	1.39	1.42
54	2w	76	8AN	C2'-C3'	-2.35	1.50	1.53
54	2w	37	MIA	C2-N3	2.34	1.37	1.34
55	1x	32	5MC	C6-N1	-2.34	1.34	1.38
55	1x	8	4SU	O2-C2	2.34	1.27	1.23
1	2A	1939	5MU	C6-N1	-2.34	1.34	1.38
1	2A	2605	PSU	C4-N3	-2.34	1.34	1.38
54	2w	32	PSU	C4-N3	-2.33	1.34	1.38
55	1x	54	5MU	C4-C5	2.33	1.48	1.44
32	1a	967	5MC	C6-N1	-2.33	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.32	1.34	1.38
56	2y	54	5MU	C4-N3	-2.30	1.34	1.38
32	2a	1207	2MG	C6-N1	-2.30	1.34	1.37
32	2a	966	M2G	C2-N2	2.30	1.39	1.35
55	2x	32	5MC	C6-N1	-2.30	1.34	1.38
1	1A	2251	OMG	C6-N1	-2.27	1.34	1.37
56	1y	55	PSU	C4-N3	-2.27	1.34	1.38
1	1A	1962	5MC	C6-N1	-2.27	1.34	1.38
54	1w	46	G7M	C6-N1	-2.26	1.34	1.37
54	2w	8	4SU	C5-C4	-2.26	1.39	1.42
54	1w	8	4SU	C2-N3	-2.26	1.33	1.38
32	2a	966	M2G	C6-N1	-2.26	1.34	1.37
32	1a	1400	5MC	C6-N1	-2.24	1.34	1.38
55	1x	54	5MU	C2-N1	2.23	1.42	1.38
1	1A	1915	5MU	C2-N1	2.23	1.42	1.38
32	2a	516	PSU	C4-N3	-2.22	1.34	1.38
55	2x	8	4SU	O2-C2	2.21	1.27	1.23
54	2w	54	5MU	C4-C5	2.21	1.48	1.44
1	2A	1939	5MU	C2-N1	2.21	1.42	1.38
56	2y	8	4SU	C5-C4	-2.19	1.39	1.42
56	1y	8	4SU	C2-N3	-2.17	1.34	1.38
32	2a	1404	5MC	C6-N1	-2.17	1.34	1.38
55	2x	76	8AN	C5-N7	-2.16	1.31	1.39
1	1A	1915	5MU	C6-N1	-2.15	1.34	1.38
55	1x	76	8AN	C5-N7	-2.15	1.31	1.39
1	1A	2503	2MA	C2-N3	2.15	1.35	1.31
55	2x	54	5MU	C6-N1	-2.13	1.34	1.38
54	1w	54	5MU	C2-N1	2.13	1.41	1.38
54	2w	76	8AN	C5-N7	-2.13	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	967	5MC	C6-N1	-2.12	1.34	1.38
54	1w	54	5MU	C2-N3	-2.11	1.34	1.38
56	1y	8	4SU	C5-C4	-2.11	1.39	1.42
54	1w	76	8AN	C5-N7	-2.10	1.32	1.39
55	2x	8	4SU	C6-C5	2.10	1.39	1.35
56	2y	32	PSU	C4-N3	-2.10	1.34	1.38
56	1y	46	G7M	C6-N1	-2.10	1.34	1.37
56	1y	8	4SU	C6-C5	2.10	1.39	1.35
1	1A	2552	OMU	C5-C4	-2.09	1.39	1.43
1	2A	1942	5MC	C6-N1	-2.08	1.34	1.38
54	2w	54	5MU	C6-N1	-2.08	1.34	1.38
1	2A	1939	5MU	C2-N3	-2.07	1.34	1.38
1	1A	2552	OMU	C4-N3	-2.07	1.34	1.38
56	2y	46	G7M	C2-N3	2.06	1.38	1.33
1	1A	2605	PSU	C2-N3	-2.06	1.34	1.37
54	1w	32	PSU	C2-N3	-2.06	1.34	1.37
32	1a	1407	5MC	C6-N1	-2.05	1.34	1.38
55	1x	54	5MU	C6-N1	-2.04	1.34	1.38
1	2A	1939	5MU	C4-C5	2.04	1.48	1.44
32	2a	1498	UR3	C2-N1	2.04	1.41	1.38
1	1A	2503	2MA	C6-N6	2.04	1.36	1.28
1	1A	1939	5MU	C2-N1	2.04	1.41	1.38
55	1x	8	4SU	C6-C5	2.03	1.39	1.35
54	2w	54	5MU	C2-N3	-2.03	1.34	1.38
32	2a	1498	UR3	C6-C5	2.02	1.39	1.35

All (274) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	37	MIA	C12-C13-C14	-8.41	110.78	127.14
54	2w	8	4SU	C4-N3-C2	-7.74	119.83	127.34
56	2y	8	4SU	C4-N3-C2	-7.03	120.51	127.34
54	2w	8	4SU	C5-C4-N3	6.28	120.51	114.69
32	1a	1498	UR3	C4-N3-C2	-6.25	118.68	124.56
1	2A	1911	PSU	N1-C2-N3	6.17	122.12	115.13
56	1y	55	PSU	N1-C2-N3	6.14	122.08	115.13
1	1A	2605	PSU	N1-C2-N3	6.09	122.03	115.13
1	1A	1911	PSU	N1-C2-N3	6.05	121.98	115.13
54	1w	39	PSU	N1-C2-N3	6.02	121.95	115.13
56	2y	8	4SU	C5-C4-N3	6.00	120.25	114.69
1	2A	1917	PSU	N1-C2-N3	5.96	121.89	115.13
54	2w	55	PSU	N1-C2-N3	5.91	121.83	115.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1w	55	PSU	N1-C2-N3	5.83	121.73	115.13
55	1x	55	PSU	N1-C2-N3	5.82	121.72	115.13
32	2a	516	PSU	N1-C2-N3	5.75	121.65	115.13
56	2y	32	PSU	N1-C2-N3	5.75	121.64	115.13
32	2a	1498	UR3	C4-N3-C2	-5.75	119.15	124.56
1	1A	1917	PSU	N1-C2-N3	5.69	121.58	115.13
1	2A	1939	5MU	C4-N3-C2	-5.68	120.00	127.35
54	2w	76	8AN	N3-C2-N1	-5.67	119.81	128.68
55	1x	76	8AN	N3-C2-N1	-5.66	119.83	128.68
55	2x	76	8AN	N3-C2-N1	-5.65	119.84	128.68
54	1w	8	4SU	C4-N3-C2	-5.64	121.86	127.34
56	2y	55	PSU	N1-C2-N3	5.62	121.50	115.13
54	1w	76	8AN	N3-C2-N1	-5.61	119.92	128.68
55	2x	55	PSU	N1-C2-N3	5.57	121.44	115.13
56	1y	32	PSU	N1-C2-N3	5.56	121.42	115.13
1	2A	2605	PSU	N1-C2-N3	5.53	121.39	115.13
56	1y	39	PSU	N1-C2-N3	5.52	121.38	115.13
32	1a	516	PSU	N1-C2-N3	5.49	121.35	115.13
1	2A	1939	5MU	N3-C2-N1	5.49	122.17	114.89
54	2w	39	PSU	N1-C2-N3	5.47	121.33	115.13
43	2l	92	0TD	CSB-SB-CB	-5.44	92.60	102.44
54	2w	32	PSU	N1-C2-N3	5.43	121.29	115.13
1	1A	1915	5MU	C4-N3-C2	-5.43	120.32	127.35
54	1w	8	4SU	C5-C4-N3	5.41	119.71	114.69
54	1w	32	PSU	N1-C2-N3	5.26	121.09	115.13
55	2x	54	5MU	C4-N3-C2	-5.21	120.61	127.35
1	1A	1915	5MU	N3-C2-N1	5.16	121.74	114.89
1	2A	1915	5MU	C4-N3-C2	-5.13	120.71	127.35
32	2a	1519	MA6	N3-C2-N1	-5.05	120.78	128.68
56	2y	39	PSU	N1-C2-N3	5.02	120.82	115.13
56	1y	8	4SU	C4-N3-C2	-5.01	122.47	127.34
55	2x	54	5MU	N3-C2-N1	4.95	121.45	114.89
55	1x	54	5MU	N3-C2-N1	4.92	121.42	114.89
1	2A	1939	5MU	C5-C4-N3	4.91	119.50	115.31
32	1a	1518	MA6	N3-C2-N1	-4.88	121.05	128.68
1	2A	1915	5MU	N3-C2-N1	4.85	121.33	114.89
55	1x	54	5MU	C4-N3-C2	-4.79	121.16	127.35
32	1a	1519	MA6	N3-C2-N1	-4.78	121.21	128.68
56	1y	8	4SU	C5-C4-N3	4.74	119.08	114.69
1	1A	1939	5MU	C4-N3-C2	-4.73	121.22	127.35
1	2A	1915	5MU	C5-C4-N3	4.70	119.32	115.31
54	1w	54	5MU	N3-C2-N1	4.63	121.03	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	1939	5MU	C5-C4-N3	4.60	119.24	115.31
1	1A	2552	OMU	C4-N3-C2	-4.56	120.57	126.58
32	2a	1518	MA6	N3-C2-N1	-4.56	121.56	128.68
54	1w	54	5MU	C4-N3-C2	-4.55	121.46	127.35
1	1A	1915	5MU	C5-C4-N3	4.51	119.16	115.31
1	1A	2552	OMU	N3-C2-N1	4.47	120.83	114.89
1	2A	2552	OMU	C4-N3-C2	-4.47	120.68	126.58
54	1w	37	MIA	C15-C14-C13	-4.46	109.76	122.65
1	2A	1915	5MU	O4-C4-C5	-4.46	119.74	124.90
55	2x	54	5MU	O4-C4-C5	-4.40	119.80	124.90
54	2w	54	5MU	C4-N3-C2	-4.34	121.73	127.35
54	2w	8	4SU	N3-C2-N1	4.32	120.62	114.89
55	2x	54	5MU	C5-C4-N3	4.31	118.99	115.31
1	1A	1939	5MU	N3-C2-N1	4.29	120.58	114.89
1	2A	2552	OMU	O2-C2-N1	-4.27	117.11	122.79
1	1A	1939	5MU	C5-C6-N1	-4.26	118.95	123.34
1	1A	2552	OMU	O2-C2-N1	-4.26	117.12	122.79
54	2w	37	MIA	C2-N3-C4	4.24	121.17	115.32
1	1A	1915	5MU	O4-C4-C5	-4.24	119.99	124.90
1	2A	2552	OMU	N3-C2-N1	4.20	120.47	114.89
56	2y	54	5MU	C5-C4-N3	4.18	118.88	115.31
1	2A	2605	PSU	C4-N3-C2	-4.16	120.34	126.34
1	2A	1939	5MU	O4-C4-C5	-4.16	120.08	124.90
54	2w	54	5MU	N3-C2-N1	4.15	120.40	114.89
54	2w	8	4SU	C5-C4-S4	-4.11	119.17	124.47
56	1y	54	5MU	C4-N3-C2	-4.10	122.04	127.35
56	2y	8	4SU	C5-C4-S4	-4.09	119.19	124.47
54	1w	54	5MU	C5-C4-N3	4.07	118.78	115.31
54	2w	54	5MU	C5-C4-N3	4.06	118.78	115.31
1	2A	1939	5MU	C5-C6-N1	-4.06	119.16	123.34
56	2y	8	4SU	N3-C2-N1	4.05	120.27	114.89
1	1A	2605	PSU	C4-N3-C2	-4.03	120.53	126.34
56	1y	54	5MU	C5-C4-N3	4.02	118.74	115.31
1	2A	1911	PSU	O2-C2-N1	-4.01	118.38	122.79
56	1y	54	5MU	N3-C2-N1	3.99	120.19	114.89
1	1A	1917	PSU	C4-N3-C2	-3.99	120.59	126.34
1	1A	1911	PSU	C4-N3-C2	-3.98	120.61	126.34
54	1w	37	MIA	C2-N3-C4	3.98	120.81	115.32
54	1w	39	PSU	C4-N3-C2	-3.98	120.61	126.34
55	1x	54	5MU	C5-C4-N3	3.98	118.70	115.31
54	2w	37	MIA	C12-N6-C6	-3.97	119.45	122.87
1	2A	1911	PSU	C4-N3-C2	-3.96	120.63	126.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	1x	8	4SU	C6-C5-C4	-3.95	116.53	119.95
1	2A	1917	PSU	C4-N3-C2	-3.94	120.67	126.34
55	1x	55	PSU	C4-N3-C2	-3.93	120.68	126.34
32	2a	516	PSU	C4-N3-C2	-3.93	120.68	126.34
54	1w	37	MIA	C12-N6-C6	-3.92	116.73	122.55
32	1a	516	PSU	C4-N3-C2	-3.88	120.75	126.34
56	2y	54	5MU	O4-C4-C5	-3.88	120.41	124.90
55	2x	55	PSU	C4-N3-C2	-3.87	120.77	126.34
56	2y	54	5MU	C4-N3-C2	-3.87	122.34	127.35
32	1a	1400	5MC	C5-C6-N1	-3.87	119.36	123.34
56	1y	55	PSU	C4-N3-C2	-3.84	120.81	126.34
54	2w	55	PSU	C4-N3-C2	-3.83	120.81	126.34
54	1w	55	PSU	O2-C2-N1	-3.80	118.61	122.79
54	2w	54	5MU	O4-C4-C5	-3.80	120.50	124.90
55	2x	54	5MU	C5-C6-N1	-3.79	119.44	123.34
54	1w	37	MIA	C16-C14-C13	-3.77	111.74	122.65
1	1A	1917	PSU	O2-C2-N1	-3.76	118.65	122.79
32	1a	967	5MC	C5-C6-N1	-3.75	119.48	123.34
54	2w	39	PSU	C4-N3-C2	-3.75	120.94	126.34
55	1x	8	4SU	O2-C2-N1	3.74	127.76	122.79
32	2a	1400	5MC	C5-C6-N1	-3.74	119.49	123.34
54	1w	55	PSU	C4-N3-C2	-3.74	120.95	126.34
56	1y	32	PSU	C4-N3-C2	-3.72	120.98	126.34
55	2x	32	5MC	C5-C6-N1	-3.70	119.53	123.34
55	1x	54	5MU	O4-C4-C5	-3.70	120.61	124.90
1	1A	1942	5MC	C5-C6-N1	-3.69	119.54	123.34
54	1w	54	5MU	C5-C6-N1	-3.68	119.55	123.34
56	2y	54	5MU	N3-C2-N1	3.67	119.76	114.89
54	1w	37	MIA	C5-C6-N1	-3.66	117.77	120.81
54	1w	39	PSU	O2-C2-N1	-3.65	118.77	122.79
54	1w	8	4SU	N3-C2-N1	3.65	119.74	114.89
32	2a	1404	5MC	C5-C6-N1	-3.64	119.59	123.34
56	2y	32	PSU	C4-N3-C2	-3.63	121.11	126.34
1	2A	1962	5MC	C5-C6-N1	-3.61	119.62	123.34
56	1y	8	4SU	N3-C2-N1	3.60	119.67	114.89
1	2A	1942	5MC	C5-C6-N1	-3.58	119.66	123.34
32	2a	1407	5MC	C5-C6-N1	-3.58	119.66	123.34
55	1x	54	5MU	C5-C6-N1	-3.55	119.69	123.34
54	2w	37	MIA	C5-C6-N1	-3.54	117.87	120.81
54	1w	32	PSU	C4-N3-C2	-3.51	121.28	126.34
56	2y	32	PSU	O2-C2-N1	-3.51	118.93	122.79
1	2A	1915	5MU	C5-C6-N1	-3.50	119.74	123.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	1917	PSU	O2-C2-N1	-3.50	118.94	122.79
32	2a	967	5MC	C5-C6-N1	-3.49	119.74	123.34
56	2y	37	MIA	N3-C2-N1	-3.49	123.23	128.68
56	1y	39	PSU	C4-N3-C2	-3.47	121.34	126.34
55	1x	32	5MC	C5-C6-N1	-3.46	119.78	123.34
55	1x	8	4SU	S4-C4-N3	-3.45	116.81	120.21
56	2y	55	PSU	O2-C2-N1	-3.44	119.00	122.79
56	1y	55	PSU	O2-C2-N1	-3.43	119.02	122.79
56	1y	54	5MU	O4-C4-C5	-3.41	120.95	124.90
56	2y	55	PSU	C4-N3-C2	-3.41	121.43	126.34
32	2a	516	PSU	O2-C2-N1	-3.35	119.10	122.79
1	2A	2605	PSU	O2-C2-N1	-3.34	119.11	122.79
54	1w	54	5MU	O4-C4-C5	-3.34	121.03	124.90
32	1a	1404	5MC	C5-C6-N1	-3.34	119.91	123.34
54	2w	55	PSU	O2-C2-N1	-3.33	119.13	122.79
54	2w	32	PSU	C4-N3-C2	-3.31	121.57	126.34
56	1y	37	MIA	N3-C2-N1	-3.31	123.51	128.68
32	2a	1519	MA6	C4-C5-N7	-3.27	105.99	109.40
56	2y	55	PSU	C6-C5-C4	-3.25	115.92	118.20
54	2w	54	5MU	C5-C6-N1	-3.24	120.01	123.34
32	1a	1404	5MC	C5-C4-N3	-3.20	118.22	121.67
1	1A	2552	OMU	O4-C4-C5	-3.18	119.56	125.16
1	2A	2552	OMU	C5-C4-N3	3.14	119.54	114.84
54	1w	37	MIA	C2-N1-C6	3.12	122.78	117.19
1	1A	1962	5MC	C5-C6-N1	-3.11	120.14	123.34
56	1y	54	5MU	C5-C6-N1	-3.11	120.14	123.34
32	1a	1407	5MC	C5-C6-N1	-3.10	120.14	123.34
32	1a	1519	MA6	C4-C5-N7	-3.10	106.17	109.40
1	1A	1915	5MU	C5-C6-N1	-3.10	120.15	123.34
56	1y	32	PSU	O2-C2-N1	-3.10	119.38	122.79
1	1A	1915	5MU	O2-C2-N1	-3.10	118.67	122.79
54	2w	32	PSU	O2-C2-N1	-3.08	119.40	122.79
1	2A	2552	OMU	O4-C4-C5	-3.07	119.77	125.16
56	2y	54	5MU	C5-C6-N1	-3.05	120.20	123.34
55	1x	32	5MC	C5-C4-N3	-3.04	118.39	121.67
1	1A	2552	OMU	C5-C4-N3	3.02	119.36	114.84
32	2a	1407	5MC	C5-C4-N3	-3.02	118.42	121.67
55	2x	8	4SU	O2-C2-N1	2.98	126.74	122.79
32	2a	1518	MA6	C4-C5-N7	-2.96	106.32	109.40
55	1x	8	4SU	C5-C4-N3	2.86	117.34	114.69
54	2w	37	MIA	C4-C5-N7	-2.84	106.44	109.40
54	1w	8	4SU	C5-C4-S4	-2.83	120.83	124.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	1x	55	PSU	O2-C2-N1	-2.82	119.69	122.79
55	2x	8	4SU	C6-C5-C4	-2.80	117.53	119.95
1	1A	1942	5MC	C5-C4-N3	-2.78	118.68	121.67
55	2x	76	8AN	O4'-C1'-C2'	-2.77	102.88	106.93
55	1x	76	8AN	O4'-C1'-C2'	-2.76	102.89	106.93
1	1A	1911	PSU	O2-C2-N1	-2.75	119.77	122.79
56	2y	39	PSU	C4-N3-C2	-2.73	122.40	126.34
32	1a	1407	5MC	O2-C2-N3	-2.70	117.95	122.33
1	1A	1939	5MU	O4-C4-C5	-2.69	121.78	124.90
54	2w	39	PSU	O2-C2-N1	-2.69	119.83	122.79
1	1A	1939	5MU	C5M-C5-C4	2.69	121.72	118.77
1	1A	2605	PSU	O2-C2-N1	-2.63	119.89	122.79
55	2x	8	4SU	C5-C4-N3	2.60	117.11	114.69
55	2x	32	5MC	C5-C4-N3	-2.60	118.87	121.67
1	1A	1942	5MC	CM5-C5-C6	-2.60	119.37	122.85
54	2w	8	4SU	O2-C2-N1	-2.60	119.33	122.79
32	1a	1402	4OC	C6-C5-C4	2.58	120.12	116.96
1	2A	1962	5MC	C5-C4-N3	-2.57	118.90	121.67
55	2x	8	4SU	S4-C4-N3	-2.57	117.68	120.21
32	1a	1207	2MG	C8-N7-C5	2.56	107.87	102.99
56	2y	37	MIA	C4-C5-N7	-2.56	106.73	109.40
1	2A	1942	5MC	C5-C4-N3	-2.54	118.93	121.67
32	1a	1518	MA6	C4-C5-N7	-2.52	106.78	109.40
1	1A	2251	OMG	C8-N7-C5	2.51	107.78	102.99
1	1A	1962	5MC	C5-C4-N3	-2.51	118.96	121.67
56	1y	37	MIA	C4-C5-N7	-2.51	106.78	109.40
55	1x	8	4SU	C1'-N1-C2	2.51	122.11	117.57
1	2A	1939	5MU	O2-C2-N1	-2.51	119.45	122.79
32	2a	1207	2MG	C8-N7-C5	2.51	107.77	102.99
1	2A	2503	2MA	C8-N7-C5	2.50	107.76	102.99
1	1A	1915	5MU	C5M-C5-C4	2.50	121.52	118.77
56	1y	8	4SU	C1'-N1-C2	2.49	122.08	117.57
54	1w	54	5MU	O2-C2-N1	-2.48	119.50	122.79
32	1a	1400	5MC	C5-C4-N3	-2.47	119.01	121.67
54	2w	37	MIA	C2-N1-C6	2.47	121.61	117.19
54	2w	46	G7M	C3'-C2'-C1'	2.46	104.68	100.98
32	2a	1404	5MC	C5-C4-N3	-2.46	119.02	121.67
1	2A	2251	OMG	C5-C6-N1	2.46	118.29	113.95
32	1a	516	PSU	O2-C2-N1	-2.44	120.11	122.79
54	1w	37	MIA	N3-C2-N1	-2.43	122.51	126.98
55	1x	54	5MU	O2-C2-N1	-2.41	119.58	122.79
55	2x	54	5MU	O2-C2-N1	-2.40	119.59	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	2x	8	4SU	C1'-N1-C2	2.39	121.90	117.57
54	1w	37	MIA	C4-C5-N7	-2.37	106.93	109.40
54	2w	37	MIA	C11-S10-C2	-2.37	100.50	102.27
1	1A	2251	OMG	C5-C6-N1	2.36	118.11	113.95
55	2x	32	5MC	O2-C2-N3	-2.35	118.51	122.33
32	1a	966	M2G	C8-N7-C5	2.35	107.46	102.99
32	2a	1400	5MC	C5-C4-N3	-2.34	119.14	121.67
56	2y	8	4SU	O2-C2-N1	-2.34	119.67	122.79
1	2A	2251	OMG	C8-N7-C5	2.31	107.40	102.99
56	1y	39	PSU	O2-C2-N3	-2.31	117.46	121.82
32	1a	966	M2G	C5-C6-N1	2.30	118.02	113.95
32	2a	1400	5MC	O2-C2-N3	-2.30	118.59	122.33
43	1l	92	0TD	OD2-CG-CB	2.29	118.09	113.15
32	2a	966	M2G	C8-N7-C5	2.28	107.33	102.99
55	1x	8	4SU	C4-N3-C2	2.25	129.53	127.34
32	1a	1407	5MC	C5-C4-N3	-2.24	119.25	121.67
54	1w	32	PSU	O2-C2-N1	-2.24	120.32	122.79
56	1y	8	4SU	C5-C4-S4	-2.24	121.58	124.47
55	2x	55	PSU	O2-C2-N1	-2.24	120.33	122.79
32	2a	1402	4OC	C6-C5-C4	2.23	119.69	116.96
32	2a	1407	5MC	O2-C2-N3	-2.23	118.71	122.33
1	2A	2503	2MA	C5-C6-N1	2.22	117.86	114.02
54	2w	54	5MU	O2-C2-N1	-2.22	119.84	122.79
54	2w	46	G7M	N2-C2-N3	-2.20	115.45	119.74
32	1a	1207	2MG	C5-C6-N1	2.19	117.82	113.95
1	1A	2503	2MA	C8-N7-C5	2.18	107.15	102.99
54	1w	37	MIA	C11-S10-C2	-2.18	100.64	102.27
55	1x	55	PSU	C5-C6-N1	-2.18	118.84	122.11
32	1a	1498	UR3	C3U-N3-C2	2.18	121.13	117.31
32	1a	1400	5MC	O2-C2-N3	-2.15	118.83	122.33
32	2a	967	5MC	C5-C4-N3	-2.15	119.36	121.67
32	1a	1404	5MC	CM5-C5-C6	-2.13	120.00	122.85
1	1A	1915	5MU	C5M-C5-C6	-2.12	120.01	122.85
32	1a	516	PSU	O4'-C1'-C2'	2.12	108.13	105.14
56	2y	39	PSU	O2-C2-N3	-2.12	117.82	121.82
32	1a	967	5MC	C5-C4-N3	-2.12	119.39	121.67
1	1A	1962	5MC	O2-C2-N3	-2.12	118.89	122.33
55	1x	8	4SU	O2-C2-N3	-2.12	117.56	121.50
56	1y	39	PSU	O4'-C1'-C2'	2.10	108.10	105.14
32	1a	967	5MC	CM5-C5-C6	-2.10	120.05	122.85
1	2A	1920	OMC	O2-C2-N3	-2.09	118.93	122.33
32	1a	1404	5MC	O2-C2-N3	-2.08	118.94	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	1y	55	PSU	O4'-C1'-C2'	2.07	108.06	105.14
55	1x	32	5MC	O2-C2-N3	-2.06	118.98	122.33
1	1A	1939	5MU	C5M-C5-C6	-2.05	120.11	122.85
55	2x	8	4SU	O2-C2-N3	-2.04	117.70	121.50
54	1w	39	PSU	C5-C6-N1	-2.04	119.06	122.11
32	2a	1207	2MG	C5-C6-N1	2.03	117.54	113.95
54	2w	54	5MU	C5M-C5-C4	2.03	121.00	118.77
1	2A	1915	5MU	O2-C2-N1	-2.02	120.10	122.79
1	1A	1920	OMC	O2-C2-N3	-2.01	119.07	122.33

There are no chirality outliers.

All (51) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
54	1w	37	MIA	C12-C13-C14-C16
55	1x	76	8AN	C3'-C4'-C5'-O5'
56	1y	46	G7M	C4'-C5'-O5'-P
55	2x	76	8AN	O4'-C4'-C5'-O5'
55	2x	76	8AN	C3'-C4'-C5'-O5'
56	2y	55	PSU	C2'-C1'-C5-C4
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
54	2w	46	G7M	O4'-C4'-C5'-O5'
54	2w	46	G7M	C3'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
55	1x	76	8AN	O4'-C4'-C5'-O5'
56	1y	37	MIA	C3'-C4'-C5'-O5'
32	2a	527	G7M	C3'-C4'-C5'-O5'
32	1a	527	G7M	C3'-C4'-C5'-O5'
56	1y	8	4SU	C3'-C4'-C5'-O5'
56	2y	37	MIA	C3'-C4'-C5'-O5'
56	1y	8	4SU	O4'-C4'-C5'-O5'
54	1w	46	G7M	C4'-C5'-O5'-P
54	2w	46	G7M	C4'-C5'-O5'-P
54	2w	37	MIA	N3-C2-S10-C11
56	1y	37	MIA	O4'-C4'-C5'-O5'
32	2a	527	G7M	O4'-C4'-C5'-O5'
32	1a	527	G7M	O4'-C4'-C5'-O5'
56	2y	37	MIA	O4'-C4'-C5'-O5'
55	2x	76	8AN	C4'-C5'-O5'-P
54	2w	37	MIA	N1-C2-S10-C11

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Mol	Chain	Res	Type	Atoms
43	1l	92	0TD	CG-CB-SB-CSB
43	2l	92	0TD	CG-CB-SB-CSB
43	1l	92	0TD	SB-CB-CG-OD1
55	1x	76	8AN	C4'-C5'-O5'-P
32	1a	527	G7M	C4'-C5'-O5'-P
32	2a	527	G7M	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
56	2y	8	4SU	C4'-C5'-O5'-P
1	2A	2503	2MA	O4'-C4'-C5'-O5'
56	1y	55	PSU	O4'-C1'-C5-C4
56	2y	55	PSU	O4'-C1'-C5-C4
1	1A	2503	2MA	C4'-C5'-O5'-P
32	1a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1402	4OC	O4'-C4'-C5'-O5'
43	2l	92	0TD	SB-CB-CG-OD2
1	1A	1920	OMC	C2'-C1'-N1-C2
56	2y	55	PSU	O4'-C1'-C5-C6
56	1y	8	4SU	C2'-C1'-N1-C2
43	2l	92	0TD	SB-CB-CG-OD1
1	1A	2503	2MA	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C4'-C5'-O5'-P
1	2A	2503	2MA	C4'-C5'-O5'-P
56	2y	37	MIA	C4'-C5'-O5'-P

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2777 ligands modelled in this entry, 2769 are monoatomic - leaving 8 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	$\#\|Z\|>2$
59	A1AEZ	1A	4118	57	91,91,91	2.39	20 (21%)	123,132,132	1.90	29 (23%)
63	FME	1x	115	55	8,9,10	0.54	0	7,9,11	1.57	2 (28%)
61	SF4	2d	302	35	0,12,12	-	-	-		
62	PHE	1w	110	54	10,11,12	1.45	1 (10%)	10,13,15	0.92	1 (10%)
59	A1AEZ	2A	3843	57	91,91,91	2.30	16 (17%)	123,132,132	1.93	29 (23%)
63	FME	2x	108	55	8,9,10	0.47	0	7,9,11	1.39	2 (28%)
61	SF4	1d	501	35	0,12,12	-	-	-		
62	PHE	2w	108	54	10,11,12	1.52	1 (10%)	10,13,15	0.85	1 (10%)

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
59	A1AEZ	1A	4118	57	-	15/98/132/132	0/7/7/7
63	FME	1x	115	55	-	2/7/9/11	-
61	SF4	1d	501	35	-	-	0/6/5/5
61	SF4	2d	302	35	-	-	0/6/5/5
59	A1AEZ	2A	3843	57	-	16/98/132/132	0/7/7/7
63	FME	2x	108	55	-	0/7/9/11	-
62	PHE	1w	110	54	-	0/5/6/8	0/1/1/1
62	PHE	2w	108	54	-	2/5/6/8	0/1/1/1

All (38) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	2A	3843	A1AEZ	CAG-CAF	-11.93	1.41	1.53
59	1A	4118	A1AEZ	CAG-CAF	-10.97	1.42	1.53
59	2A	3843	A1AEZ	CBU-CBT	8.56	1.30	1.19
59	1A	4118	A1AEZ	OBR-NBJ	8.16	1.56	1.42
59	1A	4118	A1AEZ	CBU-CBT	7.38	1.29	1.19
59	2A	3843	A1AEZ	CAB-CAF	-6.76	1.40	1.52
59	1A	4118	A1AEZ	CAB-CAF	-5.52	1.42	1.52
59	1A	4118	A1AEZ	CBX-CCB	-5.36	1.39	1.50
59	2A	3843	A1AEZ	CAJ-CAI	-5.32	1.39	1.51
59	1A	4118	A1AEZ	CCW-CDE	-5.16	1.40	1.48
59	2A	3843	A1AEZ	CBX-CCB	-4.88	1.40	1.50
59	2A	3843	A1AEZ	CCW-CDE	-4.85	1.40	1.48
59	1A	4118	A1AEZ	CAJ-CAI	-4.73	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	2w	108	PHE	CB-CG	-4.61	1.40	1.51
59	1A	4118	A1AEZ	CCS-CCV	-4.51	1.39	1.48
59	2A	3843	A1AEZ	CCS-CCV	-4.42	1.39	1.48
62	1w	110	PHE	CB-CG	-4.39	1.40	1.51
59	1A	4118	A1AEZ	CAF-NBJ	3.97	1.34	1.27
59	2A	3843	A1AEZ	CCX-NCY	3.78	1.40	1.34
59	1A	4118	A1AEZ	CCX-NCY	3.56	1.40	1.34
59	2A	3843	A1AEZ	CAF-NBJ	3.35	1.33	1.27
59	1A	4118	A1AEZ	CCA-NBZ	3.29	1.41	1.34
59	2A	3843	A1AEZ	CCZ-NCY	3.18	1.51	1.46
59	2A	3843	A1AEZ	OBH-CAL	-3.17	1.42	1.47
59	2A	3843	A1AEZ	CBY-NBZ	3.10	1.41	1.34
59	1A	4118	A1AEZ	CCT-NCY	-3.09	1.36	1.40
59	1A	4118	A1AEZ	CAG-CAH	3.08	1.58	1.54
59	1A	4118	A1AEZ	FDC-CCQ	-2.90	1.28	1.35
59	2A	3843	A1AEZ	CCA-NBZ	2.88	1.40	1.34
59	1A	4118	A1AEZ	CCZ-NCY	2.77	1.51	1.46
59	1A	4118	A1AEZ	OBR-CBS	2.65	1.45	1.42
59	2A	3843	A1AEZ	CCT-NCY	-2.60	1.37	1.40
59	1A	4118	A1AEZ	OBH-CAL	-2.57	1.43	1.47
59	1A	4118	A1AEZ	CBY-NBZ	2.50	1.39	1.34
59	2A	3843	A1AEZ	CAG-CAH	2.45	1.57	1.54
59	1A	4118	A1AEZ	OAN-CAM	-2.15	1.42	1.46
59	2A	3843	A1AEZ	CDB-CCZ	2.07	1.53	1.48
59	1A	4118	A1AEZ	OBN-CBP	2.02	1.39	1.34

All (64) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	2A	3843	A1AEZ	CCT-NCY-CCZ	9.51	129.90	119.89
59	1A	4118	A1AEZ	CCT-NCY-CCZ	9.48	129.87	119.89
59	2A	3843	A1AEZ	CCZ-NCY-CCX	-5.74	111.06	119.73
59	1A	4118	A1AEZ	CCZ-NCY-CCX	-5.48	111.45	119.73
59	2A	3843	A1AEZ	CCU-CCT-NCY	5.19	124.29	120.53
59	1A	4118	A1AEZ	CCE-NCC-CCB	-4.52	116.77	121.89
59	2A	3843	A1AEZ	CCR-CCQ-CCP	-4.49	119.23	123.50
59	2A	3843	A1AEZ	CAB-CAF-CAG	4.15	124.14	119.43
59	2A	3843	A1AEZ	CAE-CAD-CAC	-4.07	107.37	113.61
59	1A	4118	A1AEZ	CAB-CAF-CAG	4.03	124.00	119.43
59	2A	3843	A1AEZ	CCE-NCC-CCB	-3.99	117.37	121.89
59	1A	4118	A1AEZ	CCR-CCQ-CCP	-3.95	119.74	123.50
59	1A	4118	A1AEZ	CDB-CCZ-NCY	3.82	124.58	118.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	1A	4118	A1AEZ	CCU-CCT-NCY	3.81	123.30	120.53
59	2A	3843	A1AEZ	CBE-CAM-CAL	-3.68	110.15	115.23
59	1A	4118	A1AEZ	CBS-OBR-NBJ	3.51	111.80	107.99
59	2A	3843	A1AEZ	CDB-CCZ-NCY	3.45	124.02	118.84
59	1A	4118	A1AEZ	CBE-CAM-CAL	-3.17	110.86	115.23
59	2A	3843	A1AEZ	CCU-CCP-CCQ	3.14	120.64	117.75
59	1A	4118	A1AEZ	CDE-CCW-CCV	3.13	126.33	121.56
59	1A	4118	A1AEZ	CAE-CAD-CAC	-3.05	108.95	113.61
59	1A	4118	A1AEZ	OBH-CAL-CBG	2.98	112.18	106.93
59	1A	4118	A1AEZ	CCU-CCP-CCQ	2.88	120.40	117.75
59	1A	4118	A1AEZ	CBW-CBX-CBY	2.87	120.90	117.95
59	2A	3843	A1AEZ	CBV-CCA-NBZ	-2.83	119.24	123.49
59	2A	3843	A1AEZ	CCS-CCV-CCW	2.83	119.18	115.59
63	1x	115	FME	CA-N-CN	-2.82	118.48	122.82
59	1A	4118	A1AEZ	CAL-OBH-CBP	-2.79	103.81	109.55
59	2A	3843	A1AEZ	CAX-CAR-CAS	-2.78	109.04	113.40
59	1A	4118	A1AEZ	OAO-CAD-CAE	2.77	113.02	106.40
59	1A	4118	A1AEZ	OBH-CAL-CAM	2.77	111.76	105.63
59	2A	3843	A1AEZ	CAL-OBH-CBP	-2.67	104.06	109.55
59	2A	3843	A1AEZ	OBH-CAL-CAM	2.63	111.46	105.63
59	1A	4118	A1AEZ	CBX-CBY-NBZ	-2.63	119.60	123.49
59	2A	3843	A1AEZ	CCX-CCW-CCV	-2.62	117.93	119.88
63	1x	115	FME	O1-CN-N	-2.52	118.63	125.27
62	1w	110	PHE	CB-CA-C	-2.52	106.75	111.47
59	2A	3843	A1AEZ	CBI-CAG-CAH	2.50	116.35	112.90
59	2A	3843	A1AEZ	CBS-OBR-NBJ	2.48	110.68	107.99
59	2A	3843	A1AEZ	CCR-CCS-CCT	2.44	121.57	118.73
59	2A	3843	A1AEZ	CCI-CCH-CCF	-2.42	107.77	113.06
59	1A	4118	A1AEZ	CCI-CCH-CCF	-2.40	107.80	113.06
63	2x	108	FME	CA-N-CN	-2.38	119.16	122.82
59	2A	3843	A1AEZ	CBW-CBV-CCA	2.37	120.60	118.37
59	2A	3843	A1AEZ	CCU-CCT-CCS	-2.35	116.90	120.16
59	2A	3843	A1AEZ	CAH-OBN-CBP	-2.32	105.72	109.66
62	2w	108	PHE	CB-CA-C	-2.28	107.20	111.47
59	1A	4118	A1AEZ	ODG-CDE-ODF	-2.28	118.40	123.61
59	2A	3843	A1AEZ	OBH-CAL-CBG	2.26	110.90	106.93
63	2x	108	FME	O1-CN-N	-2.21	119.45	125.27
59	1A	4118	A1AEZ	CCX-CCW-CCV	-2.20	118.25	119.88
59	1A	4118	A1AEZ	CBX-CCB-NCC	-2.18	114.00	116.89
59	1A	4118	A1AEZ	CBI-CAG-CAH	2.16	115.88	112.90
59	1A	4118	A1AEZ	CCS-CCV-CCW	2.16	118.33	115.59
59	2A	3843	A1AEZ	CBX-CBY-NBZ	-2.15	120.32	123.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	1A	4118	A1AEZ	FDC-CCQ-CCP	2.11	120.15	117.50
59	2A	3843	A1AEZ	OBB-CAK-CAJ	2.10	111.26	107.55
59	1A	4118	A1AEZ	CAX-CAR-CAS	-2.10	110.11	113.40
59	1A	4118	A1AEZ	CCR-CCS-CCT	2.09	121.17	118.73
59	2A	3843	A1AEZ	OAN-CAI-CAJ	2.09	116.14	111.56
59	2A	3843	A1AEZ	CCR-CCS-CCV	-2.05	116.44	119.95
59	2A	3843	A1AEZ	OBL-CAE-CAA	2.04	110.21	105.71
59	1A	4118	A1AEZ	OAO-CAD-CAC	-2.04	108.48	111.54
59	1A	4118	A1AEZ	CCR-CCS-CCV	-2.00	116.52	119.95

There are no chirality outliers.

All (35) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
59	1A	4118	A1AEZ	OBR-CBS-CBT-CBU
59	1A	4118	A1AEZ	CBT-CBS-OBR-NBJ
59	1A	4118	A1AEZ	CDB-CCZ-NCY-CCT
59	1A	4118	A1AEZ	CDB-CCZ-NCY-CCX
59	2A	3843	A1AEZ	OBR-CBS-CBT-CBU
59	2A	3843	A1AEZ	CBT-CBS-OBR-NBJ
59	2A	3843	A1AEZ	CDB-CCZ-NCY-CCT
59	2A	3843	A1AEZ	CDB-CCZ-NCY-CCX
62	2w	108	PHE	O-C-CA-CB
59	2A	3843	A1AEZ	NCJ-CCK-CCL-CCM
59	1A	4118	A1AEZ	NCJ-CCK-CCL-CCM
59	1A	4118	A1AEZ	CCL-CCK-NCJ-CCI
59	2A	3843	A1AEZ	CDA-CCZ-NCY-CCX
59	2A	3843	A1AEZ	CCL-CCM-CCN-NCO
59	2A	3843	A1AEZ	CCH-CCI-NCJ-CCK
59	2A	3843	A1AEZ	CCV-CCW-CDE-ODF
59	2A	3843	A1AEZ	CCV-CCW-CDE-ODG
59	2A	3843	A1AEZ	CDA-CCZ-NCY-CCT
63	1x	115	FME	N-CA-CB-CG
59	2A	3843	A1AEZ	CCX-CCW-CDE-ODG
59	1A	4118	A1AEZ	CCF-CCH-CCI-NCJ
59	2A	3843	A1AEZ	CCF-CCH-CCI-NCJ
59	2A	3843	A1AEZ	CCX-CCW-CDE-ODF
59	1A	4118	A1AEZ	CCM-CCN-NCO-CCP
59	1A	4118	A1AEZ	CDA-CCZ-NCY-CCX
63	1x	115	FME	CB-CG-SD-CE
59	1A	4118	A1AEZ	NBJ-CAF-CAG-CBI
59	2A	3843	A1AEZ	CCL-CCK-NCJ-CCI

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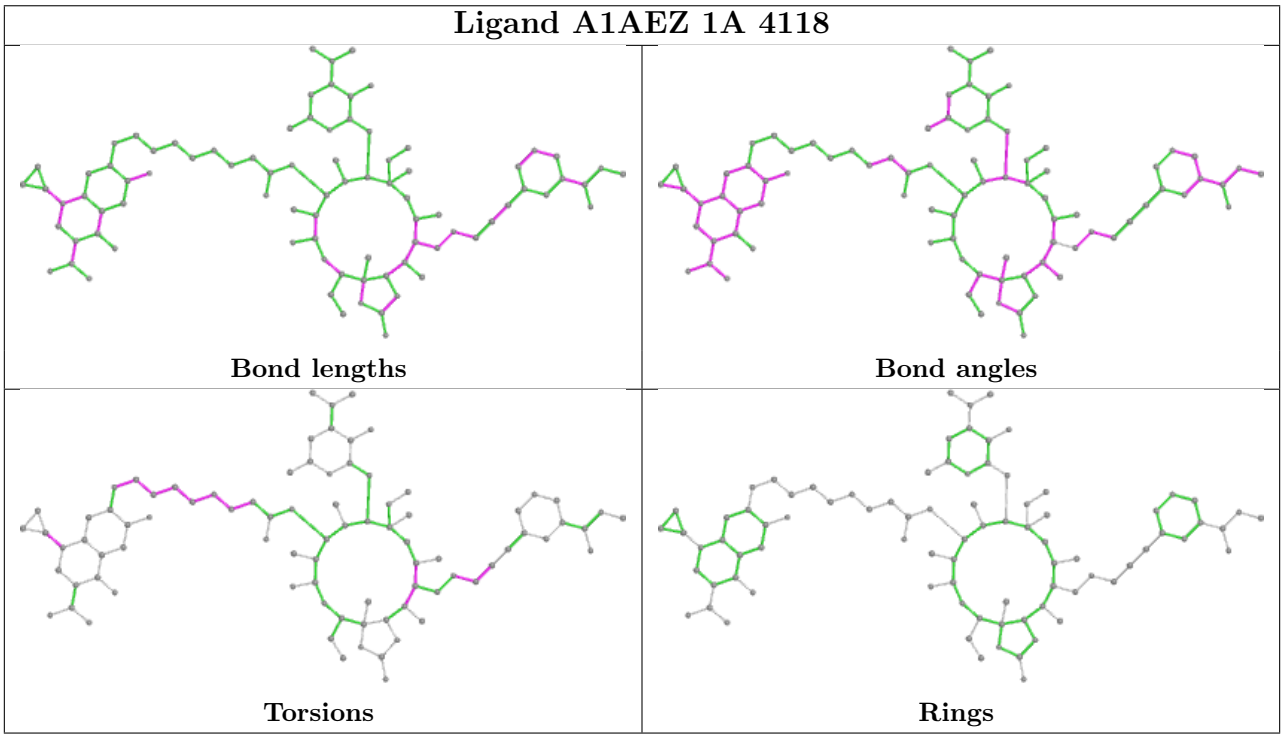
Mol	Chain	Res	Type	Atoms
59	1A	4118	A1AEZ	CCK-CCL-CCM-CCN
59	1A	4118	A1AEZ	CCH-CCI-NCJ-CCK
59	1A	4118	A1AEZ	CCL-CCM-CCN-NCO
59	1A	4118	A1AEZ	CDA-CCZ-NCY-CCT
62	2w	108	PHE	C-CA-CB-CG
59	1A	4118	A1AEZ	CBK-CAB-CAF-NBJ
59	2A	3843	A1AEZ	CCK-CCL-CCM-CCN

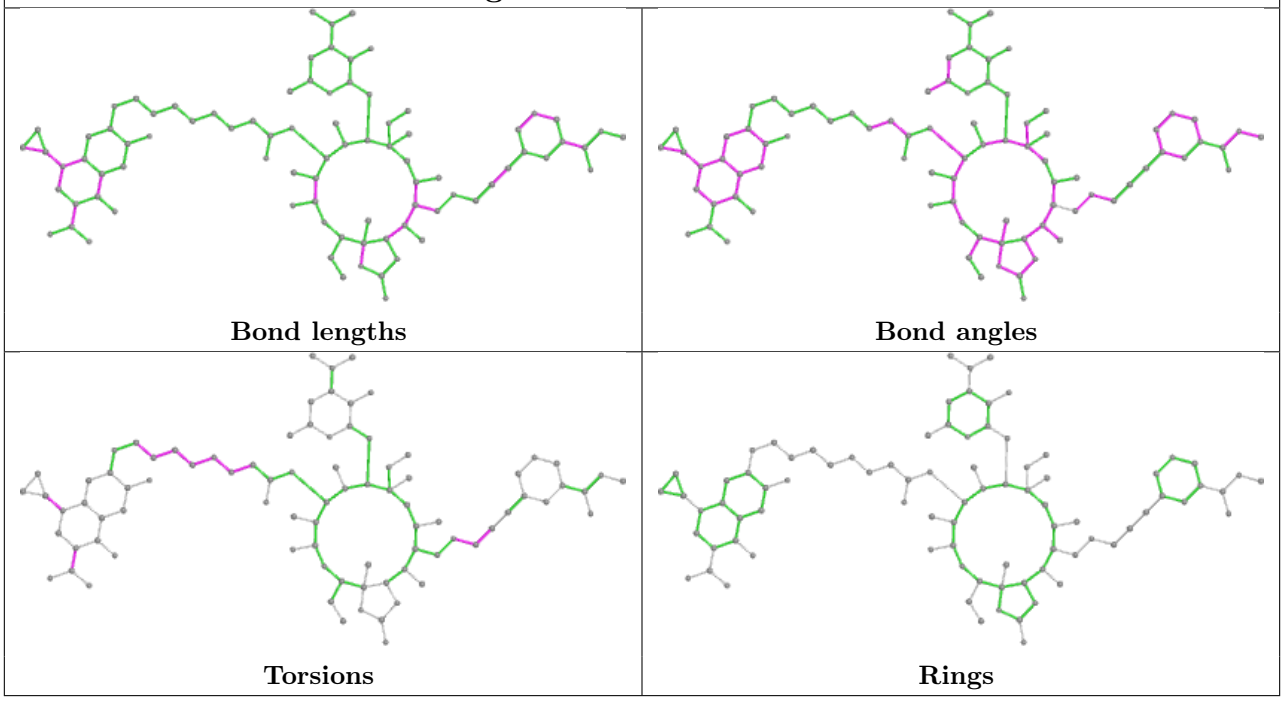
There are no ring outliers.

No monomer is involved in short contacts.

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



Ligand A1AEZ 2A 3843



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	1A	2860/2915 (98%)	0.35	143 (5%) 28 27	16, 32, 83, 94	0
1	2A	2789/2915 (95%)	0.19	128 (4%) 32 31	29, 50, 81, 93	0
2	1B	120/121 (99%)	0.02	0 100 100	26, 44, 57, 75	0
2	2B	120/121 (99%)	-0.17	1 (0%) 86 84	52, 64, 71, 81	0
3	1D	275/276 (99%)	0.31	1 (0%) 92 91	17, 33, 46, 68	0
3	2D	275/276 (99%)	0.43	2 (0%) 87 86	27, 43, 54, 72	0
4	1E	204/206 (99%)	0.34	2 (0%) 82 80	17, 35, 55, 63	0
4	2E	204/206 (99%)	0.27	1 (0%) 91 89	30, 52, 63, 71	0
5	1F	203/210 (96%)	0.29	0 100 100	16, 38, 60, 72	0
5	2F	203/210 (96%)	0.26	1 (0%) 91 89	30, 58, 70, 77	0
6	1G	181/182 (99%)	0.09	1 (0%) 89 88	36, 51, 64, 76	0
6	2G	181/182 (99%)	0.47	4 (2%) 62 60	53, 65, 73, 77	0
7	1H	174/180 (96%)	0.24	0 100 100	35, 47, 59, 64	0
7	2H	174/180 (96%)	2.30	97 (55%) 0 0	62, 72, 78, 82	0
8	1I	146/148 (98%)	0.21	3 (2%) 63 61	42, 63, 71, 75	0
8	2I	146/148 (98%)	0.24	3 (2%) 63 61	49, 63, 72, 75	0
9	1N	140/140 (100%)	0.52	0 100 100	22, 35, 53, 61	0
9	2N	140/140 (100%)	0.32	0 100 100	41, 56, 68, 74	0
10	1O	122/122 (100%)	0.23	0 100 100	23, 36, 52, 57	0
10	2O	122/122 (100%)	0.29	0 100 100	42, 52, 62, 65	0
11	1P	149/150 (99%)	0.20	1 (0%) 87 86	16, 41, 59, 64	0
11	2P	149/150 (99%)	0.44	5 (3%) 45 44	32, 58, 70, 77	0
12	1Q	141/141 (100%)	0.29	1 (0%) 87 86	21, 36, 50, 64	0
12	2Q	141/141 (100%)	0.98	18 (12%) 3 3	40, 56, 66, 69	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	0.24	0 100 100	23, 30, 44, 51	0
13	2R	118/118 (100%)	0.16	1 (0%) 86 84	34, 46, 55, 63	0
14	1S	110/112 (98%)	0.35	0 100 100	31, 43, 55, 59	0
14	2S	110/112 (98%)	0.55	7 (6%) 19 18	52, 61, 68, 74	0
15	1T	131/146 (89%)	0.14	0 100 100	29, 40, 60, 69	0
15	2T	131/146 (89%)	0.18	0 100 100	43, 54, 66, 70	0
16	1U	116/118 (98%)	0.47	0 100 100	18, 27, 43, 57	0
16	2U	116/118 (98%)	0.34	2 (1%) 70 68	37, 52, 64, 69	0
17	1V	101/101 (100%)	0.33	0 100 100	18, 34, 50, 58	0
17	2V	101/101 (100%)	0.26	2 (1%) 65 63	38, 60, 66, 71	0
18	1W	112/113 (99%)	0.48	0 100 100	20, 28, 46, 72	0
18	2W	112/113 (99%)	0.51	0 100 100	36, 43, 58, 76	0
19	1X	95/96 (98%)	0.57	0 100 100	23, 34, 59, 73	0
19	2X	95/96 (98%)	0.38	1 (1%) 80 79	39, 51, 66, 76	0
20	1Y	107/110 (97%)	0.38	0 100 100	33, 44, 58, 66	0
20	2Y	107/110 (97%)	0.63	4 (3%) 41 41	51, 62, 71, 76	0
21	1Z	154/206 (74%)	0.40	8 (5%) 27 26	34, 56, 72, 78	0
21	2Z	160/206 (77%)	1.25	38 (23%) 0 0	56, 69, 77, 83	0
22	10	83/85 (97%)	0.44	0 100 100	24, 32, 43, 61	0
22	20	83/85 (97%)	0.49	2 (2%) 59 57	38, 52, 60, 74	0
23	11	97/98 (98%)	0.28	1 (1%) 82 80	26, 41, 63, 66	0
23	21	97/98 (98%)	0.33	1 (1%) 82 80	33, 49, 64, 68	0
24	12	70/72 (97%)	0.61	0 100 100	29, 42, 54, 62	0
24	22	70/72 (97%)	0.16	0 100 100	49, 60, 68, 72	0
25	13	59/60 (98%)	0.32	0 100 100	19, 30, 55, 70	0
25	23	59/60 (98%)	0.35	2 (3%) 45 44	47, 55, 65, 74	0
26	14	69/71 (97%)	0.23	3 (4%) 35 33	43, 65, 76, 79	0
26	24	69/71 (97%)	1.11	16 (23%) 0 0	62, 71, 79, 81	0
27	15	59/60 (98%)	0.45	1 (1%) 70 68	17, 30, 50, 58	0
27	25	59/60 (98%)	0.22	0 100 100	30, 46, 60, 72	0
28	16	53/54 (98%)	0.15	0 100 100	28, 38, 49, 55	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/54 (98%)	0.39	1 (1%) 66 64	44, 52, 60, 62	0
29	17	48/49 (97%)	0.54	3 (6%) 20 18	17, 24, 50, 57	0
29	27	48/49 (97%)	0.79	3 (6%) 20 18	27, 36, 61, 65	0
30	18	64/65 (98%)	0.24	0 100 100	22, 29, 36, 53	0
30	28	64/65 (98%)	0.61	0 100 100	41, 47, 53, 59	0
31	19	37/37 (100%)	0.39	0 100 100	24, 35, 44, 54	0
31	29	37/37 (100%)	1.64	14 (37%) 0 0	50, 59, 68, 71	0
32	1a	1488/1521 (97%)	0.08	51 (3%) 45 44	31, 57, 80, 94	0
32	2a	1491/1521 (98%)	0.14	67 (4%) 33 31	42, 65, 81, 92	0
33	1b	231/256 (90%)	0.35	13 (5%) 24 23	55, 66, 75, 79	0
33	2b	231/256 (90%)	0.58	17 (7%) 14 13	60, 71, 76, 81	0
34	1c	206/239 (86%)	0.37	7 (3%) 45 44	50, 62, 70, 75	0
34	2c	206/239 (86%)	1.14	39 (18%) 1 1	62, 70, 76, 78	0
35	1d	208/209 (99%)	0.35	6 (2%) 51 50	49, 61, 69, 72	0
35	2d	208/209 (99%)	0.46	6 (2%) 51 50	50, 60, 67, 73	0
36	1e	148/162 (91%)	0.35	2 (1%) 75 73	44, 55, 64, 71	0
36	2e	148/162 (91%)	0.58	8 (5%) 25 24	53, 64, 70, 76	0
37	1f	100/101 (99%)	0.09	0 100 100	47, 58, 66, 69	0
37	2f	100/101 (99%)	0.03	0 100 100	49, 58, 66, 72	0
38	1g	155/156 (99%)	0.55	12 (7%) 13 12	53, 62, 73, 77	0
38	2g	155/156 (99%)	0.90	22 (14%) 2 2	61, 68, 76, 82	0
39	1h	137/138 (99%)	0.21	2 (1%) 73 72	47, 57, 62, 68	0
39	2h	137/138 (99%)	0.31	1 (0%) 87 86	56, 64, 69, 72	0
40	1i	127/128 (99%)	0.80	15 (11%) 4 4	48, 66, 73, 74	0
40	2i	127/128 (99%)	1.56	40 (31%) 0 0	60, 71, 76, 79	0
41	1j	97/105 (92%)	0.50	2 (2%) 63 61	51, 66, 76, 77	0
41	2j	96/105 (91%)	1.83	37 (38%) 0 0	63, 72, 78, 80	0
42	1k	114/129 (88%)	0.37	2 (1%) 68 66	37, 58, 67, 69	0
42	2k	114/129 (88%)	0.15	1 (0%) 84 82	46, 63, 71, 73	0
43	1l	121/132 (91%)	0.34	4 (3%) 46 45	37, 46, 56, 65	0
43	2l	121/132 (91%)	0.59	7 (5%) 23 22	50, 56, 63, 70	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	123/126 (97%)	0.32	3 (2%) 59 57	48, 60, 68, 73	0
44	2m	122/126 (96%)	1.25	22 (18%) 1 1	60, 69, 73, 78	0
45	1n	60/61 (98%)	0.70	4 (6%) 17 16	53, 58, 65, 66	0
45	2n	60/61 (98%)	2.85	39 (65%) 0 0	63, 70, 74, 76	0
46	1o	88/89 (98%)	0.20	3 (3%) 45 44	40, 56, 63, 69	0
46	2o	88/89 (98%)	0.31	2 (2%) 60 58	50, 60, 68, 73	0
47	1p	82/88 (93%)	1.03	11 (13%) 3 2	49, 60, 67, 74	0
47	2p	82/88 (93%)	0.64	3 (3%) 41 41	53, 60, 68, 70	0
48	1q	99/105 (94%)	0.75	8 (8%) 12 11	47, 58, 66, 70	0
48	2q	99/105 (94%)	0.64	5 (5%) 28 26	55, 62, 70, 73	0
49	1r	68/88 (77%)	0.27	2 (2%) 51 50	49, 59, 67, 71	0
49	2r	68/88 (77%)	0.09	0 100 100	52, 60, 69, 72	0
50	1s	83/93 (89%)	0.33	2 (2%) 59 57	53, 61, 70, 74	0
50	2s	83/93 (89%)	1.74	36 (43%) 0 0	63, 71, 75, 79	0
51	1t	96/106 (90%)	1.29	25 (26%) 0 0	51, 61, 68, 71	0
51	2t	96/106 (90%)	0.82	8 (8%) 11 10	53, 60, 70, 72	0
52	1u	23/27 (85%)	1.02	2 (8%) 10 9	54, 57, 64, 64	0
52	2u	23/27 (85%)	2.94	18 (78%) 0 0	63, 67, 71, 76	0
53	1v	13/24 (54%)	1.85	4 (30%) 0 0	42, 47, 81, 87	0
53	2v	13/24 (54%)	1.85	5 (38%) 0 0	55, 60, 84, 89	0
54	1w	66/76 (86%)	0.38	6 (9%) 9 8	23, 69, 77, 85	0
54	2w	64/76 (84%)	1.12	14 (21%) 0 0	39, 77, 83, 86	0
55	1x	72/77 (93%)	-0.05	0 100 100	22, 54, 71, 77	0
55	2x	72/77 (93%)	-0.02	1 (1%) 75 73	35, 64, 75, 83	0
56	1y	67/76 (88%)	4.73	62 (92%) 0 0	56, 86, 89, 90	0
56	2y	66/76 (86%)	4.82	65 (98%) 0 0	65, 87, 90, 91	0
All	All	20873/21748 (95%)	0.41	1233 (5%) 22 21	16, 55, 76, 94	0

All (1233) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	123	ALA	18.0
44	2m	124	PRO	16.5

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Mol	Chain	Res	Type	RSRZ
56	2y	36	A	13.6
56	1y	35	A	11.7
56	1y	34	G	11.4
56	1y	36	A	11.4
44	1m	123	ALA	10.7
1	2A	2145	C	9.3
1	1A	2159	G	9.0
44	1m	124	PRO	9.0
1	2A	2146	C	8.8
1	1A	1096	A	8.8
56	2y	35	A	8.6
56	1y	5	G	8.5
56	2y	34	G	8.4
45	2n	39	LEU	8.2
32	2a	1030(B)	C	8.2
1	2A	885	C	8.2
1	1A	2181	G	8.1
56	1y	19	G	8.1
56	2y	1	G	8.0
1	1A	2145	C	7.9
1	1A	2174	C	7.8
1	1A	2146	C	7.7
1	2A	884	C	7.7
1	2A	883	G	7.7
1	1A	2129	C	7.6
56	1y	24	G	7.6
1	2A	2128	C	7.6
1	2A	2127	G	7.6
56	2y	21	A	7.6
1	1A	2160	G	7.6
1	2A	2159	G	7.5
1	2A	2160	G	7.4
56	2y	62	C	7.4
1	2A	888	C	7.4
21	2Z	149	SER	7.4
1	1A	884	C	7.3
38	2g	80	VAL	7.3
1	1A	2147	G	7.2
1	1A	2115	G	7.2
1	1A	2111	C	7.1
1	1A	2110	G	7.1
56	1y	38	A	7.1

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Mol	Chain	Res	Type	RSRZ
1	2A	2123	G	7.1
56	1y	1	G	7.1
1	1A	2131	G	7.0
20	2Y	1	MET	7.0
1	1A	2175	C	7.0
32	2a	1030(A)	G	6.9
1	1A	2140	C	6.9
53	2v	12	A	6.9
1	2A	896	A	6.8
1	1A	2112	G	6.8
1	1A	2108	C	6.8
56	2y	74	C	6.8
32	2a	1036	G	6.7
1	1A	2130	U	6.7
40	2i	14	VAL	6.7
1	2A	2113	U	6.6
1	1A	1095	A	6.6
1	2A	2139	C	6.6
41	2j	72	VAL	6.5
1	2A	2138	C	6.5
53	1v	13	A	6.5
38	1g	156	TRP	6.5
1	1A	2141	G	6.5
1	2A	2115	G	6.5
56	2y	15	G	6.5
1	2A	2116	G	6.4
1	2A	2147	G	6.4
56	2y	29	G	6.4
21	2Z	170	THR	6.4
45	2n	2	ALA	6.4
38	1g	80	VAL	6.4
56	1y	75	C	6.4
1	2A	2117	A	6.4
53	1v	12	A	6.3
45	2n	38	GLY	6.3
1	2A	2125	G	6.3
56	2y	52	G	6.3
56	2y	57	G	6.3
45	2n	34	TYR	6.2
1	2A	2154	G	6.2
32	2a	1027	C	6.1
7	2H	105	LEU	6.1

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Mol	Chain	Res	Type	RSRZ
1	1A	2114	A	6.1
1	1A	2128	C	6.0
26	24	63	TYR	6.0
32	2a	1034	G	6.0
56	1y	74	C	6.0
44	2m	122	LYS	6.0
7	2H	35	VAL	6.0
56	1y	57	G	6.0
56	2y	19	G	6.0
41	2j	20	ALA	6.0
45	2n	55	GLY	6.0
32	2a	1033	G	5.9
56	1y	13	C	5.9
1	2A	2168	G	5.9
56	2y	6	G	5.9
44	2m	120	LYS	5.9
21	2Z	144	LEU	5.9
1	1A	2132	U	5.8
32	1a	1030(A)	G	5.8
56	1y	47	U	5.8
54	2w	71	G	5.8
1	1A	2161	C	5.8
1	1A	2109	U	5.8
56	2y	66	U	5.8
38	2g	32	ARG	5.8
1	2A	2141	G	5.8
1	1A	2135	A	5.8
1	2A	2112	G	5.7
7	2H	6	ARG	5.7
1	2A	887	A	5.7
1	1A	2133	G	5.7
32	1a	1257	U	5.7
21	2Z	155	LEU	5.7
32	1a	1030(B)	C	5.7
32	2a	1032	G	5.7
7	2H	72	ILE	5.6
56	1y	71	G	5.6
1	2A	2110	G	5.6
38	2g	82	GLY	5.6
7	2H	52	VAL	5.6
38	1g	79	ARG	5.6
1	2A	2111	C	5.6

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Mol	Chain	Res	Type	RSRZ
7	2H	76	VAL	5.6
1	2A	2167	U	5.6
1	1A	2180	U	5.5
52	2u	14	TRP	5.5
1	2A	2126	A	5.5
56	2y	14	A	5.5
56	2y	65	G	5.5
56	1y	4	C	5.5
1	1A	896	A	5.5
32	2a	1001(A)	G	5.5
1	1A	2113	U	5.5
56	1y	53	G	5.5
12	2Q	6	ARG	5.5
38	2g	154	TYR	5.4
1	1A	897	C	5.4
1	2A	892	G	5.4
56	1y	28	G	5.4
32	2a	1024	G	5.4
1	1A	2166	G	5.4
1	2A	2134	A	5.4
26	24	49	PHE	5.4
32	2a	1035	A	5.4
1	1A	2143	C	5.3
1	2A	2174	C	5.3
32	1a	1030(C)	G	5.3
56	1y	58	A	5.3
56	2y	53	G	5.3
1	2A	2114	A	5.3
1	1A	2116	G	5.3
1	2A	2165	G	5.3
32	2a	1031	G	5.3
56	1y	30	G	5.3
32	2a	1030	C	5.3
56	1y	20	U	5.3
7	2H	44	VAL	5.2
45	2n	25	VAL	5.2
1	2A	2129	C	5.2
1	2A	2164	C	5.2
38	2g	156	TRP	5.2
56	1y	22	G	5.2
38	1g	81	GLY	5.2
1	1A	885	C	5.2

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Mol	Chain	Res	Type	RSRZ
1	2A	2120	G	5.2
32	1a	1003	G	5.2
7	2H	48	GLY	5.2
1	2A	2179	C	5.2
1	2A	2144	U	5.2
32	1a	204	U	5.2
56	2y	33	U	5.2
56	2y	24	G	5.2
56	2y	56	C	5.2
26	24	51	ASP	5.1
50	2s	84	GLY	5.1
23	11	2	SER	5.1
32	2a	1532	U	5.1
7	2H	113	VAL	5.1
56	1y	52	G	5.1
1	2A	2143	C	5.1
41	2j	74	ILE	5.1
50	2s	68	GLY	5.1
44	2m	121	LYS	5.1
56	2y	64	A	5.1
1	2A	2135	A	5.1
56	2y	23	A	5.1
1	1A	2158	A	5.0
32	2a	1030(C)	G	5.0
56	2y	70	G	5.0
34	2c	157	ILE	5.0
56	2y	2	C	5.0
32	2a	1026	G	5.0
1	1A	2151	G	5.0
56	1y	56	C	5.0
41	2j	47	PHE	5.0
7	2H	95	ARG	5.0
7	2H	159	GLU	5.0
52	2u	9	ARG	5.0
21	2Z	152	ALA	4.9
21	2Z	153	SER	4.9
38	1g	85	TYR	4.9
45	2n	35	ARG	4.9
56	1y	3	C	4.9
56	2y	38	A	4.9
56	2y	45	U	4.9
56	2y	18	G	4.9

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Mol	Chain	Res	Type	RSRZ
32	1a	1036	G	4.9
1	1A	2142	C	4.9
1	1A	2120	G	4.9
1	1A	2148	G	4.9
1	1A	2107	C	4.9
56	2y	75	C	4.9
38	2g	79	ARG	4.9
1	1A	2169	A	4.9
1	1A	2170	A	4.8
45	2n	61	TRP	4.8
38	2g	40	ALA	4.8
1	2A	897	C	4.8
56	2y	71	G	4.8
1	2A	2170	A	4.8
26	24	50	VAL	4.8
32	1a	1029	C	4.8
32	1a	1532	U	4.7
1	1A	2127	G	4.7
1	1A	2168	G	4.7
40	1i	14	VAL	4.7
50	2s	50	ALA	4.7
56	1y	61	C	4.7
32	2a	1002	G	4.7
1	2A	886	C	4.7
56	2y	72	C	4.7
1	2A	882	G	4.7
1	2A	2142	C	4.7
50	2s	80	TYR	4.7
56	2y	73	A	4.7
1	2A	652(B)	A	4.7
56	1y	15	G	4.7
56	1y	70	G	4.6
56	2y	63	G	4.6
33	2b	127	ILE	4.6
56	1y	33	U	4.6
7	2H	51	ARG	4.6
56	2y	61	C	4.6
41	2j	40	LEU	4.6
52	2u	16	GLY	4.6
56	2y	58	A	4.6
54	1w	70	G	4.6
54	1w	20	U	4.6

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Mol	Chain	Res	Type	RSRZ
44	2m	87	TYR	4.6
52	2u	13	ILE	4.6
1	2A	2148	G	4.6
1	2A	2166	G	4.6
1	2A	2182	G	4.6
32	1a	1001(A)	G	4.6
6	2G	182	LYS	4.6
45	2n	11	LYS	4.6
1	1A	2106	G	4.6
21	2Z	141	VAL	4.6
32	1a	1031	G	4.6
1	1A	1509	C	4.5
56	2y	3	C	4.5
1	1A	2117	A	4.5
1	1A	1094	U	4.5
1	1A	2178	C	4.5
45	2n	24	CYS	4.5
50	2s	30	LEU	4.5
56	1y	23	A	4.5
1	1A	1064	C	4.5
41	2j	10	GLY	4.5
7	2H	141	VAL	4.5
47	2p	9	PHE	4.5
21	1Z	1	MET	4.5
1	2A	2149	G	4.5
56	1y	18	G	4.5
31	29	16	VAL	4.5
33	1b	227	GLY	4.5
53	1v	14	A	4.5
56	2y	5	G	4.5
1	2A	2140	C	4.5
45	2n	12	ARG	4.5
56	2y	51	U	4.5
29	27	46	VAL	4.5
56	2y	43	C	4.5
7	2H	2	SER	4.4
1	1A	2144	U	4.4
56	2y	12	U	4.4
29	27	48	LYS	4.4
21	2Z	139	VAL	4.4
7	2H	128	PRO	4.4
1	1A	1076	C	4.4

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Mol	Chain	Res	Type	RSRZ
1	1A	2138	C	4.4
1	2A	2169	A	4.4
56	1y	21	A	4.4
7	2H	123	PHE	4.4
1	1A	888	C	4.4
1	2A	2161	C	4.4
32	1a	163	C	4.4
1	1A	1097	U	4.4
1	1A	2149	G	4.4
41	2j	98	ILE	4.4
43	2l	64	TYR	4.4
1	2A	2133	G	4.4
1	2A	2156	G	4.4
1	1A	2118	U	4.4
52	2u	5	ASP	4.4
7	2H	102	ALA	4.3
1	2A	2130	U	4.3
52	2u	15	ARG	4.3
56	1y	49	C	4.3
34	2c	198	VAL	4.3
1	1A	2154	G	4.3
1	1A	2165	G	4.3
1	2A	2132	U	4.3
32	1a	1028	C	4.3
1	1A	2162	G	4.3
40	2i	125	TYR	4.3
54	2w	70	G	4.3
21	2Z	156	LYS	4.3
56	2y	47	U	4.3
32	2a	1003	G	4.3
1	2A	2136	C	4.3
21	2Z	96	VAL	4.3
56	2y	30	G	4.3
56	1y	31	A	4.2
56	1y	62	C	4.2
1	2A	2155	G	4.2
56	1y	65	G	4.2
56	2y	44	G	4.2
40	2i	65	VAL	4.2
41	2j	66	ARG	4.2
56	2y	26	A	4.2
56	2y	68	C	4.2

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Mol	Chain	Res	Type	RSRZ
40	1i	117	HIS	4.2
41	2j	44	VAL	4.2
40	2i	114	TYR	4.2
1	2A	894	C	4.2
56	2y	48	C	4.2
33	2b	122	PHE	4.2
41	2j	88	LEU	4.2
56	1y	12	U	4.2
1	1A	2136	C	4.2
56	1y	25	C	4.2
32	2a	1021	G	4.2
26	24	59	PHE	4.2
50	2s	71	LEU	4.2
7	2H	94	TYR	4.2
1	2A	229	A	4.1
43	1l	64	TYR	4.1
32	2a	1257	U	4.1
50	2s	67	VAL	4.1
56	1y	67	C	4.1
53	2v	13	A	4.1
7	2H	36	PRO	4.1
7	2H	98	LEU	4.1
32	1a	1531	A	4.1
7	2H	37	VAL	4.1
1	2A	2152	G	4.1
42	2k	25	TYR	4.1
32	2a	1028	C	4.1
56	1y	73	A	4.1
52	2u	2	GLY	4.1
32	1a	1033	G	4.0
34	2c	87	LEU	4.0
56	2y	25	C	4.0
56	2y	67	C	4.0
21	2Z	147	GLY	4.0
26	24	45	GLY	4.0
56	1y	14	A	4.0
1	1A	2134	A	4.0
45	2n	37	PHE	4.0
41	2j	65	LEU	4.0
1	1A	1066	U	4.0
1	1A	1069	A	4.0
32	2a	1030(D)	A	4.0

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Mol	Chain	Res	Type	RSRZ
50	2s	31	ILE	4.0
40	1i	15	ALA	4.0
56	2y	22	G	4.0
56	1y	51	U	4.0
23	21	2	SER	4.0
56	1y	27	G	4.0
1	2A	895	U	4.0
32	1a	1446	U	4.0
7	2H	106	THR	3.9
38	1g	83	ALA	3.9
38	2g	85	TYR	3.9
38	2g	78	ARG	3.9
52	2u	10	ARG	3.9
1	1A	889	C	3.9
56	1y	6	G	3.9
45	2n	51	GLY	3.9
1	1A	2179	C	3.9
56	2y	42	C	3.9
34	2c	60	ALA	3.9
3	1D	276	LYS	3.9
1	2A	881	G	3.9
56	2y	69	G	3.9
1	1A	2185	C	3.9
1	2A	2104	G	3.9
56	1y	69	G	3.9
1	1A	2164	C	3.9
1	2A	2178	C	3.9
1	1A	2119	A	3.9
32	1a	1026	G	3.9
32	2a	998	G	3.9
56	1y	42	C	3.9
7	2H	92	ILE	3.8
1	1A	2100	G	3.8
1	1A	2156	G	3.8
1	2A	2802	G	3.8
1	2A	889	C	3.8
56	1y	2	C	3.8
32	1a	1025	U	3.8
56	1y	50	U	3.8
1	1A	1057	A	3.8
45	2n	29	ARG	3.8
56	2y	4	C	3.8

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Mol	Chain	Res	Type	RSRZ
1	2A	2158	A	3.8
32	2a	1001	A	3.8
45	2n	31	ARG	3.8
1	2A	2131	G	3.8
1	2A	2157	G	3.8
51	1t	76	ALA	3.8
1	2A	2175	C	3.8
1	2A	2188	C	3.8
32	2a	1039	C	3.8
1	1A	2121	G	3.8
1	1A	887	A	3.8
33	2b	165	VAL	3.8
40	2i	109	VAL	3.8
38	1g	154	TYR	3.7
1	1A	886	C	3.7
1	2A	898	C	3.7
32	1a	1030	C	3.7
56	2y	11	C	3.7
21	2Z	50	GLN	3.7
36	2e	20	GLN	3.7
1	2A	2121	G	3.7
1	2A	2181	G	3.7
33	2b	121	LEU	3.7
1	2A	2162	G	3.7
53	2v	14	A	3.7
7	2H	47	GLU	3.7
32	1a	1035	A	3.7
1	1A	271(K)	U	3.7
21	2Z	128	VAL	3.7
32	1a	1447	A	3.7
54	1w	44	G	3.7
1	1A	898	C	3.7
34	2c	160	ALA	3.7
32	1a	1032	G	3.7
34	2c	159	GLY	3.7
45	2n	22	THR	3.7
38	2g	27	ILE	3.6
41	2j	75	ILE	3.6
1	1A	1065	U	3.6
32	1a	1001	A	3.6
21	2Z	148	ASP	3.6
48	2q	9	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	2A	1043	C	3.6
51	1t	74	LYS	3.6
41	2j	85	LEU	3.6
1	2A	2119	A	3.6
56	1y	64	A	3.6
40	2i	128	ARG	3.6
56	1y	11	C	3.6
1	2A	1026	U	3.6
1	1A	1098	A	3.6
32	2a	1286	A	3.6
36	2e	13	ILE	3.6
56	1y	60	U	3.6
34	1c	193	TYR	3.6
40	2i	66	ARG	3.6
26	24	52	THR	3.6
42	1k	14	VAL	3.6
12	2Q	66	ILE	3.6
32	1a	202	U	3.6
1	1A	2139	C	3.6
1	1A	2177	C	3.6
1	1A	2182	G	3.6
45	1n	2	ALA	3.6
7	2H	8	PRO	3.6
40	2i	90	PRO	3.6
54	2w	45	U	3.6
32	2a	1018	C	3.6
1	1A	1068	G	3.6
1	1A	2123	G	3.6
56	1y	10	G	3.6
7	2H	82	GLY	3.6
1	1A	2105	C	3.5
1	2A	2137	C	3.5
52	2u	11	GLY	3.5
44	2m	76	ALA	3.5
1	1A	2125	G	3.5
54	2w	44	G	3.5
29	27	47	ARG	3.5
7	2H	24	VAL	3.5
32	1a	79	G	3.5
32	1a	1024	G	3.5
51	2t	63	ILE	3.5
38	2g	81	GLY	3.5

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Mol	Chain	Res	Type	RSRZ
4	1E	195	LEU	3.5
34	2c	188	LEU	3.5
54	2w	31	A	3.5
1	1A	2137	C	3.5
21	2Z	145	GLU	3.5
56	1y	48	C	3.5
7	2H	34	GLU	3.5
1	1A	2189	U	3.5
56	2y	50	U	3.5
32	2a	1041	A	3.5
33	2b	81	VAL	3.5
40	2i	53	VAL	3.5
50	2s	12	ASP	3.5
56	1y	59	U	3.5
7	2H	96	ALA	3.5
1	1A	2152	G	3.5
1	1A	2157	G	3.5
1	2A	2124	G	3.5
7	2H	10	PRO	3.5
32	1a	78	G	3.5
22	20	45	PHE	3.4
34	2c	193	TYR	3.4
45	2n	42	ILE	3.4
40	2i	19	LEU	3.4
45	2n	13	THR	3.4
50	2s	79	THR	3.4
6	2G	29	TRP	3.4
32	1a	1030(D)	A	3.4
53	2v	15	A	3.4
32	2a	1040	U	3.4
40	2i	49	PRO	3.4
7	2H	99	VAL	3.4
56	1y	29	G	3.4
32	1a	1040	U	3.4
56	1y	68	C	3.4
1	1A	1082	U	3.4
14	2S	5	THR	3.4
31	29	37	GLY	3.4
47	1p	66	PRO	3.4
40	2i	27	THR	3.4
41	2j	55	LYS	3.4
32	1a	162	A	3.4

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Mol	Chain	Res	Type	RSRZ
41	2j	11	PHE	3.4
41	2j	91	PRO	3.4
22	20	42	GLY	3.3
1	1A	2167	U	3.3
1	2A	2122	U	3.3
56	1y	45	U	3.3
1	2A	2177	C	3.3
51	1t	9	ASN	3.3
54	1w	71	G	3.3
56	2y	28	G	3.3
8	2I	100	ALA	3.3
48	1q	28	PRO	3.3
6	1G	146	TYR	3.3
1	1A	1092	C	3.3
1	1A	2155	G	3.3
7	2H	145	ALA	3.3
41	2j	39	PRO	3.3
45	2n	6	LEU	3.3
56	2y	13	C	3.3
56	1y	63	G	3.3
51	1t	64	ASP	3.3
32	1a	841	U	3.3
56	1y	66	U	3.3
1	2A	893	C	3.3
1	2A	2108	C	3.3
56	2y	76	A	3.3
1	1A	882	G	3.2
56	1y	44	G	3.2
7	2H	103	LEU	3.2
34	2c	155	GLY	3.2
40	2i	36	TYR	3.2
7	2H	112	PRO	3.2
7	2H	169	VAL	3.2
45	2n	18	VAL	3.2
33	2b	227	GLY	3.2
31	29	12	ASP	3.2
1	1A	2122	U	3.2
32	1a	1023	G	3.2
41	2j	38	ILE	3.2
54	2w	47	U	3.2
1	1A	229	A	3.2
7	2H	46	GLU	3.2

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Mol	Chain	Res	Type	RSRZ
34	2c	190	ARG	3.2
1	1A	1063	G	3.2
32	2a	999	C	3.2
32	2a	1531	A	3.2
48	1q	98	LEU	3.2
41	2j	32	ALA	3.2
34	2c	124	ILE	3.2
34	2c	182	ILE	3.2
45	2n	36	PHE	3.2
44	2m	92	HIS	3.2
27	15	60	VAL	3.2
32	2a	1023	G	3.2
40	2i	108	VAL	3.2
56	2y	10	G	3.2
56	1y	72	C	3.2
48	1q	27	PHE	3.2
51	1t	72	LEU	3.2
1	1A	1059	G	3.1
1	1A	2187	G	3.1
1	2A	2109	U	3.1
7	2H	93	GLY	3.1
12	2Q	37	LEU	3.1
45	2n	44	LEU	3.1
42	1k	25	TYR	3.1
1	1A	1078	U	3.1
1	1A	2188	C	3.1
12	2Q	22	LYS	3.1
1	1A	1099	G	3.1
1	1A	2184	G	3.1
32	1a	1034	G	3.1
32	2a	1005	A	3.1
7	2H	78	GLY	3.1
1	1A	1060	U	3.1
1	2A	1041	C	3.1
1	1A	2186	G	3.1
1	2A	1112	G	3.1
1	2A	2153	G	3.1
7	2H	31	GLY	3.1
21	1Z	149	SER	3.1
21	1Z	120	ILE	3.1
51	1t	63	ILE	3.1
40	2i	123	PRO	3.1

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Mol	Chain	Res	Type	RSRZ
35	1d	167	GLY	3.1
1	2A	2118	U	3.1
34	2c	186	PHE	3.1
32	1a	1027	C	3.1
1	1A	1847	A	3.1
34	2c	71	ALA	3.1
40	2i	7	THR	3.1
1	2A	879	G	3.1
1	2A	2150	U	3.1
14	2S	20	ARG	3.1
32	1a	1037	C	3.1
32	2a	1029	C	3.1
51	1t	38	LYS	3.1
7	2H	26	VAL	3.1
12	2Q	109	VAL	3.1
32	2a	1287	A	3.0
1	1A	2102	U	3.0
32	2a	1022	G	3.0
45	2n	7	ILE	3.0
7	2H	146	ALA	3.0
34	2c	47	LEU	3.0
51	1t	70	SER	3.0
56	2y	41	C	3.0
44	2m	102	ARG	3.0
1	2A	2189	U	3.0
38	2g	83	ALA	3.0
45	2n	33	VAL	3.0
32	2a	1447	A	3.0
55	2x	47	U	3.0
12	2Q	5	ARG	3.0
41	2j	56	HIS	3.0
32	2a	485	G	3.0
45	2n	14	PRO	3.0
32	2a	1452	C	3.0
48	1q	36	ILE	3.0
7	2H	132	ARG	3.0
40	2i	9	ARG	3.0
40	2i	121	ARG	3.0
52	2u	18	TYR	3.0
51	1t	59	ALA	3.0
32	2a	1224	G	3.0
21	2Z	1	MET	3.0

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Mol	Chain	Res	Type	RSRZ
32	2a	91	C	3.0
33	1b	207	ALA	3.0
7	2H	43	VAL	3.0
26	24	68	ARG	3.0
38	1g	82	GLY	3.0
1	1A	2101	G	3.0
1	2A	1509	C	3.0
32	2a	1037	C	3.0
48	1q	99	SER	3.0
12	2Q	121	ALA	3.0
21	2Z	70	LEU	3.0
32	2a	1004	A	3.0
52	2u	17	THR	3.0
51	1t	55	ILE	2.9
1	2A	2100	G	2.9
32	2a	1007	C	2.9
45	2n	50	LYS	2.9
12	2Q	113	GLN	2.9
50	2s	81	ARG	2.9
7	2H	174	GLY	2.9
26	14	45	GLY	2.9
32	1a	161	A	2.9
21	2Z	58	VAL	2.9
1	1A	1058	G	2.9
1	2A	2106	G	2.9
12	2Q	61	GLY	2.9
40	2i	127	LYS	2.9
1	2A	1113	U	2.9
31	29	19	ARG	2.9
34	2c	80	GLY	2.9
1	1A	2103	C	2.9
32	1a	1008	C	2.9
1	2A	2173	A	2.9
1	2A	2801(A)	A	2.9
7	2H	124	GLU	2.9
53	2v	24	A	2.9
1	1A	1081	U	2.9
50	2s	40	ILE	2.9
12	2Q	19	GLY	2.9
34	2c	145	GLY	2.9
50	2s	65	ASN	2.9
7	2H	125	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
1	2A	2172	U	2.9
21	2Z	106	GLY	2.9
33	2b	17	PHE	2.9
6	2G	152	LEU	2.9
40	1i	19	LEU	2.9
47	1p	60	LEU	2.9
1	1A	1072	C	2.9
43	2l	39	VAL	2.9
53	1v	15	A	2.9
7	2H	7	LEU	2.9
45	2n	30	ALA	2.9
1	2A	899	A	2.8
32	2a	1009	G	2.8
38	1g	84	ASN	2.8
7	2H	49	VAL	2.8
33	1b	232	PRO	2.8
34	2c	57	ILE	2.8
41	2j	63	PHE	2.8
56	2y	59	U	2.8
31	29	20	HIS	2.8
7	2H	53	GLU	2.8
1	1A	1070	A	2.8
1	1A	1093	G	2.8
32	1a	93	G	2.8
44	2m	64	TRP	2.8
54	2w	73	A	2.8
51	2t	86	ARG	2.8
21	2Z	165	VAL	2.8
50	2s	45	VAL	2.8
33	1b	137	ARG	2.8
40	2i	8	GLY	2.8
51	1t	69	GLY	2.8
7	2H	16	SER	2.8
33	1b	233	SER	2.8
1	2A	2151	G	2.8
26	24	67	TYR	2.8
52	2u	21	TYR	2.8
33	1b	19	HIS	2.8
1	2A	2105	C	2.8
26	24	66	SER	2.8
29	17	48	LYS	2.8
45	2n	57	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
50	2s	36	ARG	2.8
32	2a	1000	U	2.8
40	2i	15	ALA	2.8
34	1c	81	GLY	2.8
40	2i	115	GLY	2.8
41	2j	48	THR	2.8
48	1q	7	THR	2.8
32	1a	1452	C	2.8
21	1Z	167	PRO	2.8
1	2A	2176	A	2.8
21	2Z	140	ASP	2.8
34	2c	195	VAL	2.8
1	2A	2180	U	2.8
7	2H	165	ALA	2.8
12	2Q	33	GLY	2.8
26	24	32	TYR	2.7
44	2m	119	GLY	2.7
38	2g	155	ARG	2.7
1	1A	1087	G	2.7
32	2a	1042	G	2.7
7	2H	75	ALA	2.7
20	2Y	65	ALA	2.7
31	29	9	ARG	2.7
52	2u	22	ARG	2.7
32	1a	1002	G	2.7
54	2w	15	G	2.7
7	2H	19	VAL	2.7
34	2c	51	GLY	2.7
44	2m	78	ILE	2.7
50	2s	48	THR	2.7
4	2E	52	LEU	2.7
31	29	24	TYR	2.7
34	2c	33	LEU	2.7
1	1A	1077	A	2.7
1	2A	900	A	2.7
54	2w	14	A	2.7
56	2y	31	A	2.7
50	2s	69	HIS	2.7
32	2a	1038	C	2.7
48	2q	23	VAL	2.7
1	2A	1114	G	2.7
32	2a	1150	U	2.7

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Mol	Chain	Res	Type	RSRZ
20	2Y	90	LEU	2.7
21	2Z	171	ILE	2.7
7	2H	154	PRO	2.7
19	2X	68	ARG	2.7
35	2d	49	ARG	2.7
34	1c	70	VAL	2.7
33	1b	188	ALA	2.7
50	2s	35	SER	2.7
51	2t	12	ALA	2.7
45	2n	46	GLU	2.7
33	1b	133	LYS	2.7
40	2i	105	ASP	2.7
1	1A	1026	U	2.7
56	2y	49	C	2.7
38	2g	41	ARG	2.7
41	2j	96	ILE	2.7
7	2H	142	GLY	2.7
26	24	19	GLY	2.7
47	2p	59	TRP	2.7
32	1a	1286	A	2.6
32	2a	1357	A	2.6
40	2i	82	ALA	2.6
1	1A	2150	U	2.6
1	1A	2172	U	2.6
21	2Z	121	HIS	2.6
32	2a	1006	C	2.6
38	2g	30	ILE	2.6
51	1t	13	LEU	2.6
1	1A	2190	G	2.6
1	2A	2792	G	2.6
45	2n	23	ARG	2.6
50	2s	37	ARG	2.6
14	2S	6	ALA	2.6
32	1a	160	A	2.6
50	2s	63	THR	2.6
56	1y	7	A	2.6
56	1y	76	A	2.6
45	2n	43	CYS	2.6
51	1t	43	LEU	2.6
7	2H	69	ARG	2.6
31	29	15	LYS	2.6
40	1i	121	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
7	2H	15	VAL	2.6
7	2H	144	VAL	2.6
21	2Z	51	ALA	2.6
48	2q	10	VAL	2.6
40	2i	30	GLY	2.6
1	1A	2173	A	2.6
32	2a	1020	U	2.6
34	2c	39	ILE	2.6
3	2D	276	LYS	2.6
8	1I	45	LYS	2.6
51	1t	14	LYS	2.6
40	2i	62	TYR	2.6
34	2c	206	GLU	2.6
33	2b	135	GLN	2.6
38	2g	9	VAL	2.6
32	1a	216	G	2.6
52	2u	24	ARG	2.6
12	2Q	104	PHE	2.6
56	2y	7	A	2.6
32	1a	217	C	2.6
41	2j	67	THR	2.6
1	1A	2153	G	2.6
25	23	60	GLU	2.6
44	2m	100	GLY	2.6
33	2b	207	ALA	2.6
40	2i	103	THR	2.6
51	1t	67	ALA	2.6
43	1l	18	VAL	2.6
45	2n	56	VAL	2.6
7	2H	148	ILE	2.6
31	29	13	LYS	2.6
1	2A	2190	G	2.6
1	1A	1075	C	2.6
51	1t	71	THR	2.5
51	2t	77	ALA	2.5
40	1i	26	VAL	2.5
21	2Z	93	ASP	2.5
50	2s	14	HIS	2.5
1	1A	892	G	2.5
12	2Q	63	LYS	2.5
52	2u	8	THR	2.5
41	2j	9	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
52	2u	6	ARG	2.5
31	29	17	ILE	2.5
40	2i	77	ILE	2.5
34	2c	102	ASN	2.5
36	2e	84	PHE	2.5
50	2s	28	LYS	2.5
7	2H	129	THR	2.5
50	2s	52	TYR	2.5
54	1w	73	A	2.5
12	2Q	102	VAL	2.5
14	2S	32	LEU	2.5
25	23	29	ARG	2.5
38	1g	153	HIS	2.5
45	2n	4	LYS	2.5
14	2S	92	TYR	2.5
31	29	30	PRO	2.5
1	1A	278	A	2.5
7	2H	33	LEU	2.5
7	2H	79	VAL	2.5
39	1h	112	LEU	2.5
32	2a	1008	C	2.5
12	2Q	59	ARG	2.5
21	2Z	122	ARG	2.5
43	1l	61	THR	2.5
52	2u	23	PRO	2.5
20	2Y	80	GLY	2.5
28	26	52	VAL	2.5
39	1h	133	LEU	2.5
44	2m	84	ILE	2.5
12	1Q	6	ARG	2.5
1	1A	2104	G	2.5
56	2y	27	G	2.5
41	2j	89	ASP	2.5
51	1t	95	ALA	2.5
33	2b	118	LEU	2.5
51	1t	24	LEU	2.5
38	1g	78	ARG	2.5
3	2D	38	LYS	2.5
7	2H	30	LYS	2.5
21	1Z	104	PHE	2.5
56	2y	9	A	2.5
32	1a	999	C	2.5

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Mol	Chain	Res	Type	RSRZ
32	2a	1045	C	2.5
36	1e	10	MET	2.5
54	2w	49	C	2.5
8	1I	41	GLU	2.5
7	2H	67	LEU	2.4
12	2Q	60	ARG	2.4
48	2q	91	ARG	2.4
51	1t	22	ARG	2.4
47	1p	62	VAL	2.4
32	1a	1000	U	2.4
6	2G	39	ILE	2.4
35	1d	158	ILE	2.4
1	1A	2176	A	2.4
7	2H	108	GLY	2.4
1	2A	1042	G	2.4
46	1o	57	LEU	2.4
36	2e	105	VAL	2.4
47	1p	38	TYR	2.4
7	2H	89	ILE	2.4
26	14	59	PHE	2.4
26	24	57	GLU	2.4
14	2S	84	GLN	2.4
1	2A	652(T)	C	2.4
1	2A	2107	C	2.4
40	2i	13	ALA	2.4
44	2m	90	LEU	2.4
50	1s	71	LEU	2.4
1	1A	1963	U	2.4
32	2a	961	U	2.4
26	24	55	ARG	2.4
33	2b	48	MET	2.4
46	1o	89	GLY	2.4
47	1p	59	TRP	2.4
7	2H	29	PRO	2.4
1	1A	899	A	2.4
1	1A	2163	C	2.4
40	2i	126	SER	2.4
45	2n	53	LEU	2.4
7	2H	13	LYS	2.4
7	2H	107	VAL	2.4
1	2A	2102	U	2.4
40	2i	93	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
21	2Z	95	PRO	2.4
32	2a	79	G	2.4
41	2j	68	HIS	2.4
7	2H	20	ALA	2.4
51	2t	59	ALA	2.4
1	2A	2163	C	2.4
38	2g	12	LEU	2.4
38	2g	6	ARG	2.4
7	2H	50	VAL	2.4
7	2H	133	VAL	2.4
40	1i	65	VAL	2.4
33	2b	228	GLY	2.4
50	2s	82	GLY	2.4
7	2H	167	GLU	2.4
34	2c	202	ILE	2.4
7	2H	39	PRO	2.4
45	2n	16	PHE	2.4
1	2A	878	A	2.4
7	2H	115	VAL	2.4
29	17	46	VAL	2.4
50	2s	9	VAL	2.4
50	2s	72	GLY	2.4
33	2b	214	ILE	2.4
52	1u	13	ILE	2.4
45	2n	26	ARG	2.4
50	2s	75	ALA	2.4
7	2H	58	GLU	2.4
34	2c	22	TRP	2.4
43	2l	62	SER	2.4
51	1t	62	LEU	2.4
32	2a	1220	G	2.3
34	2c	86	VAL	2.3
47	1p	21	VAL	2.3
1	1A	2126	A	2.3
1	2A	272(A)	U	2.3
7	2H	65	HIS	2.3
32	2a	1043	C	2.3
56	2y	40	C	2.3
35	2d	168	ARG	2.3
34	2c	184	TYR	2.3
21	2Z	2	GLU	2.3
7	2H	100	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
40	1i	80	GLY	2.3
40	2i	67	GLY	2.3
40	2i	107	ARG	2.3
1	2A	2171	A	2.3
7	2H	164	TYR	2.3
12	2Q	32	TYR	2.3
34	2c	24	ALA	2.3
52	1u	18	TYR	2.3
26	24	54	GLY	2.3
7	2H	71	LEU	2.3
7	2H	171	LEU	2.3
34	1c	87	LEU	2.3
13	2R	69	ASP	2.3
50	2s	66	MET	2.3
45	1n	7	ILE	2.3
33	2b	34	ALA	2.3
45	2n	10	ALA	2.3
44	2m	93	ARG	2.3
45	2n	3	ARG	2.3
34	2c	28	GLN	2.3
33	1b	165	VAL	2.3
32	1a	1020	U	2.3
34	2c	100	ALA	2.3
47	1p	11	SER	2.3
21	2Z	3	TYR	2.3
21	2Z	157	LEU	2.3
50	2s	20	LEU	2.3
51	2t	24	LEU	2.3
7	2H	111	HIS	2.3
8	2I	107	VAL	2.3
7	2H	172	LYS	2.3
49	1r	73	ALA	2.3
32	1a	218	C	2.3
32	2a	1223	C	2.3
44	2m	23	TYR	2.3
44	2m	97	PRO	2.3
29	17	47	ARG	2.3
43	2l	18	VAL	2.3
45	2n	41	ARG	2.3
40	1i	113	LYS	2.3
21	2Z	143	GLY	2.3
34	2c	8	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
35	2d	146	ILE	2.3
21	2Z	9	TYR	2.3
26	24	48	ARG	2.2
38	1g	32	ARG	2.2
51	1t	79	ARG	2.2
1	1A	1176	G	2.2
1	2A	1117	G	2.2
11	1P	44	GLY	2.2
40	1i	8	GLY	2.2
48	1q	23	VAL	2.2
41	2j	86	MET	2.2
41	2j	59	SER	2.2
7	2H	97	ARG	2.2
33	1b	138	LEU	2.2
43	2l	60	LEU	2.2
11	2P	110	TYR	2.2
7	2H	12	PRO	2.2
31	29	29	ASN	2.2
32	2a	983	A	2.2
34	2c	185	GLY	2.2
34	2c	20	SER	2.2
1	2A	880	G	2.2
4	1E	77	ILE	2.2
11	2P	91	PHE	2.2
35	1d	111	ALA	2.2
40	1i	33	PHE	2.2
35	2d	19	LEU	2.2
52	2u	19	GLY	2.2
7	2H	32	GLU	2.2
41	2j	34	VAL	2.2
1	2A	877	U	2.2
49	1r	29	PHE	2.2
17	2V	71	LEU	2.2
40	2i	56	LEU	2.2
34	2c	154	SER	2.2
1	1A	1100	C	2.2
51	1t	83	ARG	2.2
1	2A	1963	U	2.2
1	1A	1067	A	2.2
38	2g	108	ALA	2.2
45	1n	10	ALA	2.2
7	2H	126	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
32	2a	1017	G	2.2
36	2e	99	GLY	2.2
33	1b	21	ARG	2.2
50	2s	38	SER	2.2
7	2H	41	MET	2.2
7	2H	45	VAL	2.2
5	2F	115	ALA	2.2
21	1Z	169	GLU	2.2
32	2a	980	C	2.2
41	2j	6	ILE	2.2
50	2s	49	ILE	2.2
1	1A	2171	A	2.2
1	2A	890	A	2.2
31	29	14	CYS	2.2
34	1c	12	LEU	2.2
35	2d	6	GLY	2.2
35	1d	73	ARG	2.2
44	2m	88	ARG	2.2
1	1A	2207	G	2.2
35	1d	138	TYR	2.2
54	2w	22	G	2.2
36	2e	10	MET	2.2
40	2i	124	GLN	2.2
32	1a	90	U	2.2
47	1p	27	LYS	2.2
50	2s	70	LYS	2.2
21	2Z	164	ALA	2.2
34	1c	180	ALA	2.2
40	1i	106	ALA	2.2
47	1p	7	ALA	2.2
21	2Z	57	ILE	2.2
32	1a	1038	C	2.2
41	2j	87	THR	2.2
50	2s	62	ILE	2.2
7	2H	3	ARG	2.2
51	1t	80	ARG	2.2
40	2i	117	HIS	2.1
7	2H	157	TYR	2.1
21	1Z	148	ASP	2.1
21	2Z	47	VAL	2.1
21	2Z	80	ARG	2.1
11	2P	149	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
54	2w	4	C	2.1
43	1l	43	VAL	2.1
7	2H	18	GLU	2.1
1	2A	2184	G	2.1
12	2Q	127	ILE	2.1
41	2j	57	LYS	2.1
44	2m	101	GLN	2.1
51	2t	72	LEU	2.1
54	2w	2	C	2.1
21	1Z	153	SER	2.1
41	1j	62	HIS	2.1
1	1A	1054	A	2.1
1	1A	1073	A	2.1
38	2g	119	ARG	2.1
7	2H	74	ASN	2.1
40	2i	72	GLY	2.1
33	2b	120	ALA	2.1
41	2j	18	ALA	2.1
41	2j	81	THR	2.1
21	2Z	133	ILE	2.1
34	2c	18	TRP	2.1
48	1q	90	ILE	2.1
50	1s	31	ILE	2.1
39	2h	133	LEU	2.1
1	1A	2124	G	2.1
1	2A	2803	C	2.1
31	29	22	ARG	2.1
32	2a	1249	C	2.1
38	2g	4	ARG	2.1
33	2b	203	GLY	2.1
41	2j	36	GLY	2.1
21	2Z	69	THR	2.1
32	2a	90	U	2.1
34	2c	48	TYR	2.1
36	2e	11	ILE	2.1
7	2H	54	ARG	2.1
43	2l	29	GLY	2.1
54	1w	72	C	2.1
40	2i	87	GLN	2.1
8	2I	59	ALA	2.1
45	1n	56	VAL	2.1
48	2q	11	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
50	2s	19	VAL	2.1
50	2s	76	PRO	2.1
11	2P	79	ARG	2.1
36	2e	125	SER	2.1
51	2t	73	HIS	2.1
7	2H	22	GLY	2.1
46	2o	89	GLY	2.1
34	1c	206	GLU	2.1
51	1t	85	MET	2.1
11	2P	140	ALA	2.1
33	2b	131	PRO	2.1
34	2c	189	ALA	2.1
44	1m	122	LYS	2.1
1	1A	1175	U	2.1
38	2g	118	VAL	2.1
41	2j	94	VAL	2.1
40	2i	75	ASP	2.1
17	2V	70	ILE	2.1
35	1d	135	LEU	2.1
40	1i	116	LYS	2.1
44	2m	104	ARG	2.1
1	2A	1040	C	2.0
33	1b	15	VAL	2.0
46	2o	60	VAL	2.0
1	2A	2318	G	2.0
33	1b	211	ILE	2.0
47	1p	58	TYR	2.0
26	14	57	GLU	2.0
32	1a	344	A	2.0
34	2c	44	GLU	2.0
46	1o	88	ARG	2.0
50	2s	13	ASP	2.0
32	2a	204	U	2.0
32	2a	1446	U	2.0
40	1i	109	VAL	2.0
7	2H	64	LEU	2.0
7	2H	121	ILE	2.0
16	2U	88	ILE	2.0
40	2i	5	TYR	2.0
41	1j	98	ILE	2.0
43	2l	93	LEU	2.0
47	1p	4	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
2	2B	89	G	2.0
14	2S	41	ASP	2.0
40	1i	98	PRO	2.0
51	1t	18	GLN	2.0
8	1I	136	VAL	2.0
16	2U	8	VAL	2.0
36	1e	90	VAL	2.0
44	2m	98	VAL	2.0
54	2w	72	C	2.0
35	2d	135	LEU	2.0
32	2a	969	A	2.0
32	2a	1250	A	2.0
47	2p	27	LYS	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	PSU	1y	55	20/21	0.51	0.53	84,88,95,104	0
56	MIA	2y	37	22/30	0.58	0.56	78,86,97,113	0
56	4SU	2y	8	20/21	0.62	0.33	83,92,98,108	0
56	G7M	1y	46	24/25	0.64	0.31	78,84,88,98	0
56	PSU	2y	32	20/21	0.66	0.46	74,80,88,108	0
56	4SU	1y	8	20/21	0.67	0.32	80,87,95,105	0
56	5MU	2y	54	21/22	0.67	0.46	72,81,94,108	0
56	5MU	1y	54	21/22	0.68	0.50	79,85,91,102	0
56	G7M	2y	46	24/25	0.70	0.29	78,86,88,102	0
56	PSU	2y	39	20/21	0.70	0.47	78,83,94,102	0
56	PSU	2y	55	20/21	0.71	0.40	78,83,93,106	0
54	G7M	2w	46	24/25	0.73	0.27	73,80,92,107	0
56	MIA	1y	37	22/30	0.78	0.59	79,83,92,104	0
56	PSU	1y	39	20/21	0.79	0.44	75,83,89,91	0
54	G7M	1w	46	24/25	0.81	0.17	62,70,91,106	0
56	PSU	1y	32	20/21	0.82	0.48	76,83,91,102	0
54	MIA	2w	37	25/30	0.88	0.23	55,63,68,93	0
55	4SU	2x	8	20/21	0.89	0.15	62,68,71,75	0
54	4SU	2w	8	20/21	0.90	0.24	72,77,85,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	PSU	2w	55	20/21	0.90	0.18	67,71,77,81	0
54	PSU	1w	55	20/21	0.91	0.16	48,57,66,67	0
43	0TD	1l	92	10/11	0.91	0.16	43,47,50,67	0
43	0TD	2l	92	10/11	0.91	0.21	55,57,63,70	0
54	4SU	1w	8	20/21	0.92	0.19	63,67,72,75	0
54	MIA	1w	37	29/30	0.92	0.24	32,46,60,87	0
55	5MU	2x	54	21/22	0.93	0.23	63,67,71,72	0
55	PSU	2x	55	20/21	0.93	0.15	62,65,71,74	0
55	5MU	1x	54	21/22	0.93	0.17	54,60,68,73	0
54	PSU	2w	32	20/21	0.93	0.23	59,67,76,76	0
32	PSU	2a	516	20/21	0.93	0.18	54,61,66,67	0
32	M2G	2a	966	25/26	0.93	0.22	51,59,70,72	0
54	5MU	2w	54	21/22	0.93	0.16	57,62,68,70	0
32	2MG	2a	1207	24/25	0.93	0.19	61,70,73,77	0
55	PSU	1x	55	20/21	0.93	0.14	47,57,71,71	0
32	5MC	2a	1404	21/22	0.94	0.15	44,50,53,54	0
32	5MC	2a	967	21/22	0.94	0.16	52,59,66,68	0
54	PSU	2w	39	20/21	0.94	0.29	59,67,72,72	0
54	PSU	1w	32	20/21	0.94	0.18	46,53,59,60	0
55	5MC	1x	32	21/22	0.95	0.17	43,48,54,59	0
1	PSU	2A	1911	20/21	0.95	0.14	48,50,54,56	0
32	4OC	2a	1402	22/23	0.95	0.16	49,54,56,59	0
1	5MU	2A	1915	21/22	0.95	0.15	50,56,59,59	0
1	5MU	1A	1915	21/22	0.95	0.17	40,46,50,52	0
32	G7M	2a	527	24/25	0.95	0.17	51,57,62,63	0
55	5MC	2x	32	21/22	0.95	0.17	58,63,65,67	0
32	5MC	1a	967	21/22	0.95	0.19	42,47,53,55	0
55	4SU	1x	8	20/21	0.96	0.16	50,56,62,63	0
32	M2G	1a	966	25/26	0.96	0.18	39,45,50,54	0
55	8AN	2x	76	22/23	0.96	0.20	32,37,42,50	0
32	PSU	1a	516	20/21	0.96	0.12	43,49,54,55	0
1	OMU	2A	2552	21/22	0.96	0.19	31,37,44,50	0
54	5MU	1w	54	21/22	0.96	0.14	37,49,52,55	0
32	5MC	2a	1407	21/22	0.96	0.16	36,46,56,56	0
32	MA6	2a	1518	24/25	0.96	0.17	39,50,55,56	0
32	MA6	2a	1519	24/25	0.96	0.19	41,50,54,57	0
32	2MG	1a	1207	24/25	0.96	0.15	49,56,61,63	0
1	PSU	1A	1917	20/21	0.97	0.14	34,43,46,50	0
32	5MC	2a	1400	21/22	0.97	0.23	56,59,65,69	0
1	PSU	1A	1911	20/21	0.97	0.17	32,40,45,47	0
1	PSU	2A	1917	20/21	0.97	0.13	47,54,59,62	0
1	OMC	2A	1920	21/22	0.97	0.16	43,51,54,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	UR3	2a	1498	21/22	0.97	0.20	44,49,52,53	0
1	5MC	2A	1942	21/22	0.97	0.15	42,49,54,56	0
1	5MC	2A	1962	21/22	0.97	0.17	30,42,48,55	0
32	G7M	1a	527	24/25	0.97	0.18	37,43,48,50	0
1	PSU	2A	2605	20/21	0.97	0.17	28,32,36,36	0
32	5MC	1a	1400	21/22	0.97	0.17	37,43,47,51	0
54	PSU	1w	39	20/21	0.97	0.19	47,53,59,65	0
32	MA6	1a	1519	24/25	0.97	0.19	32,36,41,50	0
55	8AN	1x	76	22/23	0.97	0.20	16,21,28,34	0
1	5MU	1A	1939	21/22	0.98	0.20	17,22,26,30	0
1	5MC	1A	1942	21/22	0.98	0.16	26,32,35,45	0
54	8AN	2w	76	22/23	0.98	0.20	28,34,37,38	0
1	5MC	1A	1962	21/22	0.98	0.19	25,30,34,36	0
1	5MU	2A	1939	21/22	0.98	0.18	30,35,39,40	0
1	2MA	1A	2503	23/24	0.98	0.21	13,17,20,23	0
1	PSU	1A	2605	20/21	0.98	0.20	17,23,26,27	0
1	OMG	2A	2251	24/25	0.98	0.16	31,34,37,39	0
1	2MA	2A	2503	23/24	0.98	0.19	25,33,38,38	0
32	4OC	1a	1402	22/23	0.98	0.17	35,40,44,47	0
32	5MC	1a	1404	21/22	0.98	0.19	29,36,40,42	0
32	5MC	1a	1407	21/22	0.98	0.17	30,37,40,42	0
54	8AN	1w	76	22/23	0.98	0.21	14,20,23,24	0
32	MA6	1a	1518	24/25	0.98	0.18	30,35,40,41	0
1	OMC	1A	1920	21/22	0.98	0.17	31,40,43,45	0
1	OMU	1A	2552	21/22	0.99	0.17	20,23,27,27	0
32	UR3	1a	1498	21/22	0.99	0.19	31,36,39,41	0
1	OMG	1A	2251	24/25	0.99	0.21	16,23,25,26	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3940	1/1	0.14	0.14	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1U	211	1/1	0.18	1.35	69,69,69,69	0
57	MG	1a	1741	1/1	0.26	0.13	74,74,74,74	0
57	MG	1A	4119	1/1	0.29	0.12	43,43,43,43	0
57	MG	2v	102	1/1	0.32	0.17	79,79,79,79	0
57	MG	2A	3579	1/1	0.34	0.20	45,45,45,45	0
57	MG	10	107	1/1	0.36	0.62	70,70,70,70	0
57	MG	2A	3737	1/1	0.39	0.19	52,52,52,52	0
57	MG	1A	3766	1/1	0.40	0.15	54,54,54,54	0
57	MG	1A	3990	1/1	0.41	0.21	50,50,50,50	0
57	MG	2A	3770	1/1	0.43	0.11	65,65,65,65	0
57	MG	1a	1802	1/1	0.43	0.14	63,63,63,63	0
57	MG	2a	1604	1/1	0.44	0.16	71,71,71,71	0
57	MG	2A	3551	1/1	0.46	0.21	40,40,40,40	0
57	MG	2A	3804	1/1	0.46	0.07	65,65,65,65	0
57	MG	2a	1729	1/1	0.47	0.11	62,62,62,62	0
57	MG	1A	3936	1/1	0.47	0.09	65,65,65,65	0
57	MG	2A	3285	1/1	0.49	0.13	68,68,68,68	0
57	MG	1a	1774	1/1	0.52	0.09	50,50,50,50	0
57	MG	2a	1612	1/1	0.54	0.15	67,67,67,67	0
57	MG	1a	1799	1/1	0.55	0.14	57,57,57,57	0
57	MG	1A	3445	1/1	0.55	0.24	59,59,59,59	0
57	MG	1a	1680	1/1	0.57	0.29	66,66,66,66	0
57	MG	2A	3280	1/1	0.57	0.18	68,68,68,68	0
57	MG	2a	1756	1/1	0.57	0.17	68,68,68,68	0
57	MG	1A	4048	1/1	0.57	0.27	73,73,73,73	0
57	MG	1A	3996	1/1	0.58	0.36	55,55,55,55	0
57	MG	1B	231	1/1	0.58	0.17	65,65,65,65	0
57	MG	1A	3911	1/1	0.58	0.08	51,51,51,51	0
57	MG	1A	3554	1/1	0.59	0.17	61,61,61,61	0
57	MG	1A	3627	1/1	0.59	0.13	42,42,42,42	0
57	MG	1A	3968	1/1	0.59	0.11	73,73,73,73	0
57	MG	2A	3805	1/1	0.60	0.23	65,65,65,65	0
57	MG	1A	3995	1/1	0.60	0.13	45,45,45,45	0
57	MG	1A	3526	1/1	0.61	0.14	52,52,52,52	0
57	MG	1A	3392	1/1	0.63	0.31	63,63,63,63	0
57	MG	1a	1822	1/1	0.63	0.13	64,64,64,64	0
57	MG	2a	1826	1/1	0.63	0.08	62,62,62,62	0
57	MG	1A	3602	1/1	0.63	0.18	39,39,39,39	0
57	MG	2A	3811	1/1	0.64	0.09	62,62,62,62	0
57	MG	2a	1687	1/1	0.64	0.11	64,64,64,64	0
57	MG	1A	3912	1/1	0.64	0.10	67,67,67,67	0
57	MG	2a	1772	1/1	0.65	0.19	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3916	1/1	0.65	0.09	46,46,46,46	0
57	MG	1A	3644	1/1	0.65	0.11	28,28,28,28	0
57	MG	2A	3602	1/1	0.66	0.22	65,65,65,65	0
57	MG	2A	3383	1/1	0.66	0.26	55,55,55,55	0
57	MG	2A	3316	1/1	0.66	0.20	60,60,60,60	0
57	MG	2A	3776	1/1	0.66	0.19	47,47,47,47	0
57	MG	2a	1831	1/1	0.66	0.08	78,78,78,78	0
57	MG	2A	3331	1/1	0.66	0.63	59,59,59,59	0
57	MG	1A	3384	1/1	0.67	0.20	56,56,56,56	0
57	MG	2a	1689	1/1	0.67	0.18	68,68,68,68	0
57	MG	1B	222	1/1	0.67	0.20	57,57,57,57	0
57	MG	1A	4001	1/1	0.67	0.20	47,47,47,47	0
57	MG	2A	3056	1/1	0.67	0.14	65,65,65,65	0
57	MG	2A	3162	1/1	0.67	0.13	67,67,67,67	0
57	MG	1A	3796	1/1	0.67	0.23	64,64,64,64	0
57	MG	1a	1778	1/1	0.67	0.21	77,77,77,77	0
57	MG	2a	1684	1/1	0.68	0.17	53,53,53,53	0
57	MG	1B	237	1/1	0.68	0.17	39,39,39,39	0
57	MG	2A	3033	1/1	0.68	0.18	61,61,61,61	0
57	MG	2A	3039	1/1	0.68	0.12	67,67,67,67	0
57	MG	2A	3683	1/1	0.68	0.23	39,39,39,39	0
57	MG	2A	3844	1/1	0.68	0.30	67,67,67,67	0
57	MG	1A	3763	1/1	0.68	0.17	41,41,41,41	0
57	MG	1B	212	1/1	0.68	0.36	59,59,59,59	0
57	MG	2a	1641	1/1	0.68	0.14	63,63,63,63	0
57	MG	1a	1639	1/1	0.69	0.20	64,64,64,64	0
57	MG	2A	3035	1/1	0.69	0.29	63,63,63,63	0
57	MG	2A	3167	1/1	0.69	0.14	47,47,47,47	0
57	MG	2A	3233	1/1	0.69	0.16	66,66,66,66	0
57	MG	2A	3518	1/1	0.69	0.13	56,56,56,56	0
57	MG	2A	3264	1/1	0.69	0.43	58,58,58,58	0
57	MG	1A	3697	1/1	0.69	0.20	58,58,58,58	0
57	MG	1A	3400	1/1	0.70	0.19	61,61,61,61	0
57	MG	1A	4076	1/1	0.70	0.14	56,56,56,56	0
57	MG	1A	3888	1/1	0.70	0.07	52,52,52,52	0
57	MG	2A	3809	1/1	0.70	0.17	51,51,51,51	0
57	MG	2A	3057	1/1	0.70	0.25	58,58,58,58	0
57	MG	2A	3158	1/1	0.70	0.24	73,73,73,73	0
57	MG	2A	3731	1/1	0.70	0.18	58,58,58,58	0
57	MG	1E	310	1/1	0.70	0.15	25,25,25,25	0
57	MG	1A	4018	1/1	0.70	0.20	53,53,53,53	0
57	MG	2A	3493	1/1	0.71	0.15	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3195	1/1	0.71	0.19	65,65,65,65	0
57	MG	1B	209	1/1	0.71	0.18	43,43,43,43	0
57	MG	2a	1722	1/1	0.71	0.18	64,64,64,64	0
57	MG	2A	3077	1/1	0.71	0.21	55,55,55,55	0
57	MG	2A	3083	1/1	0.71	0.15	66,66,66,66	0
57	MG	1B	215	1/1	0.71	0.19	54,54,54,54	0
57	MG	1a	1734	1/1	0.71	0.10	50,50,50,50	0
57	MG	2A	3165	1/1	0.71	0.31	58,58,58,58	0
57	MG	2A	3011	1/1	0.71	0.17	66,66,66,66	0
57	MG	18	105	1/1	0.72	0.43	63,63,63,63	0
57	MG	1A	4043	1/1	0.72	0.22	38,38,38,38	0
57	MG	2a	1615	1/1	0.72	0.49	69,69,69,69	0
57	MG	1A	4102	1/1	0.72	0.13	59,59,59,59	0
57	MG	2A	3746	1/1	0.72	0.20	41,41,41,41	0
57	MG	2A	3749	1/1	0.72	0.09	56,56,56,56	0
57	MG	1a	1710	1/1	0.72	0.14	67,67,67,67	0
57	MG	1A	3672	1/1	0.72	0.11	45,45,45,45	0
57	MG	2a	1726	1/1	0.72	0.33	66,66,66,66	0
57	MG	2A	3059	1/1	0.72	0.22	64,64,64,64	0
57	MG	2A	3546	1/1	0.72	0.17	40,40,40,40	0
57	MG	1x	101	1/1	0.72	0.33	60,60,60,60	0
57	MG	2A	3267	1/1	0.72	0.30	67,67,67,67	0
57	MG	1A	4055	1/1	0.72	0.15	61,61,61,61	0
57	MG	2B	213	1/1	0.72	0.18	72,72,72,72	0
57	MG	1A	3336	1/1	0.73	0.50	50,50,50,50	0
57	MG	2A	3201	1/1	0.73	0.19	66,66,66,66	0
57	MG	1w	107	1/1	0.73	0.07	66,66,66,66	0
57	MG	1w	108	1/1	0.73	0.14	71,71,71,71	0
57	MG	1a	1765	1/1	0.73	0.18	67,67,67,67	0
57	MG	1A	3986	1/1	0.73	0.07	57,57,57,57	0
57	MG	2A	3017	1/1	0.73	0.18	64,64,64,64	0
57	MG	2a	1748	1/1	0.73	0.07	63,63,63,63	0
57	MG	1A	3141	1/1	0.73	0.18	37,37,37,37	0
57	MG	2Z	301	1/1	0.73	0.14	69,69,69,69	0
57	MG	1A	4088	1/1	0.73	0.14	64,64,64,64	0
57	MG	2A	3343	1/1	0.73	0.23	64,64,64,64	0
57	MG	1A	3733	1/1	0.73	0.20	29,29,29,29	0
57	MG	1A	3981	1/1	0.74	0.12	59,59,59,59	0
57	MG	1A	3752	1/1	0.74	0.09	40,40,40,40	0
57	MG	2A	3765	1/1	0.74	0.13	53,53,53,53	0
57	MG	1a	1736	1/1	0.74	0.10	60,60,60,60	0
57	MG	2A	3414	1/1	0.74	0.30	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3884	1/1	0.74	0.18	67,67,67,67	0
57	MG	2a	1723	1/1	0.74	0.10	59,59,59,59	0
57	MG	1A	3992	1/1	0.74	0.15	52,52,52,52	0
57	MG	1A	3491	1/1	0.74	0.11	72,72,72,72	0
57	MG	1A	3904	1/1	0.74	0.11	45,45,45,45	0
57	MG	1a	1790	1/1	0.74	0.12	62,62,62,62	0
57	MG	1A	4104	1/1	0.74	0.20	75,75,75,75	0
57	MG	1A	3967	1/1	0.74	0.07	57,57,57,57	0
57	MG	1A	4007	1/1	0.74	0.27	34,34,34,34	0
57	MG	1A	3500	1/1	0.74	0.17	58,58,58,58	0
57	MG	2A	3689	1/1	0.75	0.19	48,48,48,48	0
57	MG	2A	3729	1/1	0.75	0.16	61,61,61,61	0
57	MG	1A	3493	1/1	0.75	0.13	64,64,64,64	0
57	MG	1a	1661	1/1	0.75	0.09	67,67,67,67	0
57	MG	1a	1789	1/1	0.75	0.10	66,66,66,66	0
57	MG	1A	3573	1/1	0.75	0.14	51,51,51,51	0
57	MG	2A	3185	1/1	0.75	0.23	55,55,55,55	0
57	MG	1A	3731	1/1	0.75	0.21	38,38,38,38	0
57	MG	1a	1800	1/1	0.75	0.07	70,70,70,70	0
57	MG	2A	3782	1/1	0.75	0.08	54,54,54,54	0
57	MG	1A	3419	1/1	0.75	0.19	68,68,68,68	0
57	MG	2a	1734	1/1	0.75	0.21	70,70,70,70	0
57	MG	1a	1817	1/1	0.75	0.16	62,62,62,62	0
57	MG	1A	3993	1/1	0.75	0.28	55,55,55,55	0
57	MG	2a	1759	1/1	0.75	0.11	53,53,53,53	0
57	MG	1A	3505	1/1	0.75	0.21	58,58,58,58	0
57	MG	2a	1814	1/1	0.75	0.23	62,62,62,62	0
57	MG	2A	3616	1/1	0.75	0.20	64,64,64,64	0
57	MG	2A	3677	1/1	0.75	0.12	57,57,57,57	0
57	MG	1A	3430	1/1	0.75	0.25	52,52,52,52	0
57	MG	1A	3953	1/1	0.76	0.15	34,34,34,34	0
57	MG	1a	1768	1/1	0.76	0.19	72,72,72,72	0
57	MG	2a	1601	1/1	0.76	0.11	71,71,71,71	0
57	MG	1A	3961	1/1	0.76	0.26	46,46,46,46	0
57	MG	2a	1606	1/1	0.76	0.15	64,64,64,64	0
57	MG	1A	3654	1/1	0.76	0.19	22,22,22,22	0
57	MG	2A	3723	1/1	0.76	0.32	82,82,82,82	0
57	MG	2a	1629	1/1	0.76	0.28	56,56,56,56	0
57	MG	1a	1785	1/1	0.76	0.10	54,54,54,54	0
57	MG	2a	1651	1/1	0.76	0.14	63,63,63,63	0
57	MG	1A	4000	1/1	0.76	0.09	43,43,43,43	0
57	MG	2A	3288	1/1	0.76	0.25	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3304	1/1	0.76	0.26	57,57,57,57	0
57	MG	1a	1645	1/1	0.76	0.13	52,52,52,52	0
57	MG	2A	3065	1/1	0.76	0.17	49,49,49,49	0
57	MG	1A	3976	1/1	0.76	0.14	38,38,38,38	0
57	MG	1A	3813	1/1	0.76	0.21	55,55,55,55	0
57	MG	1a	1702	1/1	0.76	0.11	54,54,54,54	0
57	MG	2A	3783	1/1	0.76	0.15	58,58,58,58	0
57	MG	1A	4039	1/1	0.76	0.18	38,38,38,38	0
57	MG	1A	3850	1/1	0.76	0.22	41,41,41,41	0
57	MG	1A	3364	1/1	0.76	0.18	66,66,66,66	0
57	MG	1A	3716	1/1	0.76	0.26	47,47,47,47	0
57	MG	2a	1818	1/1	0.76	0.12	61,61,61,61	0
57	MG	2A	3836	1/1	0.76	0.12	54,54,54,54	0
57	MG	2A	3006	1/1	0.76	0.12	50,50,50,50	0
57	MG	2B	208	1/1	0.76	0.14	71,71,71,71	0
57	MG	1A	3453	1/1	0.77	0.24	59,59,59,59	0
57	MG	2A	3093	1/1	0.77	0.12	66,66,66,66	0
57	MG	1A	3903	1/1	0.77	0.16	46,46,46,46	0
57	MG	2A	3636	1/1	0.77	0.10	68,68,68,68	0
57	MG	1A	3949	1/1	0.77	0.14	34,34,34,34	0
57	MG	1A	3952	1/1	0.77	0.24	26,26,26,26	0
57	MG	2A	3338	1/1	0.77	0.34	61,61,61,61	0
57	MG	1A	3754	1/1	0.77	0.15	80,80,80,80	0
57	MG	2A	3370	1/1	0.77	0.24	57,57,57,57	0
57	MG	2A	3380	1/1	0.77	0.20	53,53,53,53	0
57	MG	1A	3370	1/1	0.77	0.24	58,58,58,58	0
57	MG	2a	1603	1/1	0.77	0.17	61,61,61,61	0
57	MG	1a	1659	1/1	0.77	0.16	66,66,66,66	0
57	MG	2A	3482	1/1	0.77	0.18	43,43,43,43	0
57	MG	1A	3711	1/1	0.77	0.15	55,55,55,55	0
57	MG	2a	1820	1/1	0.77	0.13	70,70,70,70	0
57	MG	1A	3886	1/1	0.77	0.12	42,42,42,42	0
57	MG	2A	3067	1/1	0.77	0.19	41,41,41,41	0
57	MG	2j	201	1/1	0.77	0.12	65,65,65,65	0
57	MG	1A	3969	1/1	0.77	0.20	50,50,50,50	0
57	MG	2A	3254	1/1	0.78	0.19	56,56,56,56	0
57	MG	2A	3052	1/1	0.78	0.21	49,49,49,49	0
57	MG	2A	3652	1/1	0.78	0.26	52,52,52,52	0
57	MG	1A	4024	1/1	0.78	0.17	58,58,58,58	0
57	MG	2A	3680	1/1	0.78	0.19	57,57,57,57	0
57	MG	1A	4030	1/1	0.78	0.11	44,44,44,44	0
57	MG	18	101	1/1	0.78	0.35	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1b	301	1/1	0.78	0.12	61,61,61,61	0
57	MG	1h	201	1/1	0.78	0.12	63,63,63,63	0
57	MG	1v	101	1/1	0.78	0.08	74,74,74,74	0
57	MG	2A	3082	1/1	0.78	0.08	72,72,72,72	0
57	MG	1A	3677	1/1	0.78	0.28	55,55,55,55	0
57	MG	2a	1693	1/1	0.78	0.17	54,54,54,54	0
57	MG	2a	1712	1/1	0.78	0.07	72,72,72,72	0
57	MG	2A	3088	1/1	0.78	0.23	62,62,62,62	0
57	MG	1A	3683	1/1	0.78	0.12	46,46,46,46	0
57	MG	2a	1724	1/1	0.78	0.11	66,66,66,66	0
57	MG	2A	3134	1/1	0.78	0.24	58,58,58,58	0
57	MG	1w	109	1/1	0.78	0.12	67,67,67,67	0
57	MG	1A	3407	1/1	0.78	0.19	55,55,55,55	0
57	MG	1A	3845	1/1	0.78	0.10	35,35,35,35	0
57	MG	1A	3227	1/1	0.78	0.14	56,56,56,56	0
57	MG	1A	3879	1/1	0.78	0.20	21,21,21,21	0
57	MG	1A	3502	1/1	0.78	0.23	44,44,44,44	0
57	MG	1O	206	1/1	0.78	0.26	61,61,61,61	0
57	MG	2A	3584	1/1	0.78	0.22	50,50,50,50	0
57	MG	2A	3585	1/1	0.78	0.12	58,58,58,58	0
57	MG	1a	1720	1/1	0.78	0.09	54,54,54,54	0
57	MG	2A	3606	1/1	0.78	0.14	45,45,45,45	0
57	MG	2Q	202	1/1	0.78	0.14	55,55,55,55	0
57	MG	2A	3610	1/1	0.78	0.15	48,48,48,48	0
57	MG	1A	3669	1/1	0.79	0.23	27,27,27,27	0
57	MG	1a	1619	1/1	0.79	0.21	58,58,58,58	0
57	MG	2A	3803	1/1	0.79	0.09	57,57,57,57	0
57	MG	1A	3701	1/1	0.79	0.11	63,63,63,63	0
57	MG	2A	3187	1/1	0.79	0.13	59,59,59,59	0
57	MG	2A	3808	1/1	0.79	0.16	62,62,62,62	0
57	MG	1a	1643	1/1	0.79	0.11	62,62,62,62	0
57	MG	2a	1713	1/1	0.79	0.33	53,53,53,53	0
57	MG	2A	3198	1/1	0.79	0.15	69,69,69,69	0
57	MG	2A	3822	1/1	0.79	0.18	59,59,59,59	0
57	MG	1O	201	1/1	0.79	0.22	52,52,52,52	0
57	MG	2A	3687	1/1	0.79	0.20	53,53,53,53	0
57	MG	1a	1751	1/1	0.79	0.16	47,47,47,47	0
57	MG	2a	1732	1/1	0.79	0.08	72,72,72,72	0
57	MG	2A	3718	1/1	0.79	0.32	65,65,65,65	0
57	MG	1a	1805	1/1	0.79	0.23	58,58,58,58	0
57	MG	2a	1750	1/1	0.79	0.05	76,76,76,76	0
57	MG	1A	3263	1/1	0.79	0.16	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1766	1/1	0.79	0.15	60,60,60,60	0
57	MG	2A	3101	1/1	0.79	0.12	63,63,63,63	0
57	MG	1A	3676	1/1	0.79	0.20	53,53,53,53	0
57	MG	1A	3358	1/1	0.79	0.10	49,49,49,49	0
57	MG	2a	1610	1/1	0.79	0.22	68,68,68,68	0
57	MG	2A	3295	1/1	0.79	0.18	53,53,53,53	0
57	MG	1A	3154	1/1	0.79	0.15	57,57,57,57	0
57	MG	2f	202	1/1	0.79	0.18	71,71,71,71	0
57	MG	2a	1619	1/1	0.79	0.16	62,62,62,62	0
57	MG	2A	3326	1/1	0.79	0.27	64,64,64,64	0
57	MG	2x	104	1/1	0.79	0.12	60,60,60,60	0
60	ZN	24	501	1/1	0.79	0.06	104,104,104,104	0
57	MG	2A	3777	1/1	0.80	0.16	66,66,66,66	0
57	MG	2a	1670	1/1	0.80	0.16	54,54,54,54	0
57	MG	1A	3764	1/1	0.80	0.17	56,56,56,56	0
57	MG	1A	3320	1/1	0.80	0.19	59,59,59,59	0
57	MG	2A	3313	1/1	0.80	0.15	74,74,74,74	0
57	MG	1A	3333	1/1	0.80	0.40	46,46,46,46	0
57	MG	2a	1697	1/1	0.80	0.10	64,64,64,64	0
57	MG	2a	1705	1/1	0.80	0.23	67,67,67,67	0
57	MG	1A	3180	1/1	0.80	0.14	34,34,34,34	0
57	MG	2A	3634	1/1	0.80	0.10	63,63,63,63	0
57	MG	1a	1816	1/1	0.80	0.11	62,62,62,62	0
57	MG	2A	3334	1/1	0.80	0.14	71,71,71,71	0
57	MG	2A	3668	1/1	0.80	0.22	59,59,59,59	0
57	MG	2A	3823	1/1	0.80	0.13	57,57,57,57	0
57	MG	2A	3669	1/1	0.80	0.13	51,51,51,51	0
57	MG	2A	3838	1/1	0.80	0.16	64,64,64,64	0
57	MG	1A	3958	1/1	0.80	0.20	47,47,47,47	0
57	MG	1A	3047	1/1	0.80	0.15	48,48,48,48	0
57	MG	1A	3632	1/1	0.80	0.17	31,31,31,31	0
57	MG	2B	217	1/1	0.80	0.11	69,69,69,69	0
57	MG	1a	1647	1/1	0.80	0.12	62,62,62,62	0
57	MG	1A	3362	1/1	0.80	0.16	53,53,53,53	0
57	MG	2a	1792	1/1	0.80	0.21	62,62,62,62	0
57	MG	1A	3923	1/1	0.80	0.13	45,45,45,45	0
57	MG	2A	3234	1/1	0.80	0.28	63,63,63,63	0
57	MG	2A	3486	1/1	0.80	0.14	45,45,45,45	0
57	MG	1A	4091	1/1	0.80	0.15	65,65,65,65	0
57	MG	2A	3511	1/1	0.80	0.12	38,38,38,38	0
57	MG	1a	1786	1/1	0.80	0.14	47,47,47,47	0
57	MG	1A	4093	1/1	0.80	0.08	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2t	201	1/1	0.80	0.11	52,52,52,52	0
57	MG	2A	3271	1/1	0.80	0.30	63,63,63,63	0
57	MG	1A	3454	1/1	0.80	0.18	48,48,48,48	0
57	MG	2y	102	1/1	0.80	0.16	77,77,77,77	0
57	MG	1a	1798	1/1	0.80	0.12	62,62,62,62	0
57	MG	1a	1633	1/1	0.81	0.14	56,56,56,56	0
57	MG	1A	3629	1/1	0.81	0.16	32,32,32,32	0
57	MG	2Q	203	1/1	0.81	0.27	67,67,67,67	0
57	MG	2A	3761	1/1	0.81	0.10	53,53,53,53	0
57	MG	1A	3922	1/1	0.81	0.10	28,28,28,28	0
57	MG	2A	3261	1/1	0.81	0.42	54,54,54,54	0
57	MG	1a	1740	1/1	0.81	0.08	68,68,68,68	0
57	MG	1A	3193	1/1	0.81	0.12	37,37,37,37	0
57	MG	2a	1742	1/1	0.81	0.07	69,69,69,69	0
57	MG	1A	4002	1/1	0.81	0.17	33,33,33,33	0
57	MG	2a	1611	1/1	0.81	0.13	62,62,62,62	0
57	MG	2A	3388	1/1	0.81	0.14	61,61,61,61	0
57	MG	2A	3653	1/1	0.81	0.17	59,59,59,59	0
57	MG	2a	1770	1/1	0.81	0.09	63,63,63,63	0
57	MG	2A	3399	1/1	0.81	0.12	64,64,64,64	0
57	MG	2A	3277	1/1	0.81	0.22	68,68,68,68	0
57	MG	2a	1633	1/1	0.81	0.16	62,62,62,62	0
57	MG	1A	3607	1/1	0.81	0.16	61,61,61,61	0
57	MG	1A	3703	1/1	0.81	0.10	48,48,48,48	0
57	MG	1A	3946	1/1	0.81	0.20	59,59,59,59	0
57	MG	2a	1682	1/1	0.81	0.12	67,67,67,67	0
57	MG	2A	3496	1/1	0.81	0.25	41,41,41,41	0
57	MG	2A	3191	1/1	0.81	0.16	63,63,63,63	0
57	MG	2A	3309	1/1	0.81	0.12	69,69,69,69	0
57	MG	1A	3228	1/1	0.81	0.15	50,50,50,50	0
57	MG	1B	232	1/1	0.81	0.15	61,61,61,61	0
57	MG	2A	3324	1/1	0.81	0.27	63,63,63,63	0
57	MG	1a	1819	1/1	0.81	0.11	53,53,53,53	0
57	MG	2A	3340	1/1	0.82	0.20	58,58,58,58	0
57	MG	2A	3682	1/1	0.82	0.15	61,61,61,61	0
57	MG	1a	1764	1/1	0.82	0.05	71,71,71,71	0
57	MG	1A	3999	1/1	0.82	0.07	45,45,45,45	0
57	MG	2A	3375	1/1	0.82	0.23	54,54,54,54	0
57	MG	2a	1622	1/1	0.82	0.38	54,54,54,54	0
57	MG	2A	3708	1/1	0.82	0.07	61,61,61,61	0
57	MG	1A	3913	1/1	0.82	0.13	55,55,55,55	0
57	MG	1a	1605	1/1	0.82	0.10	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3728	1/1	0.82	0.16	44,44,44,44	0
57	MG	1A	3326	1/1	0.82	0.14	39,39,39,39	0
57	MG	2A	3389	1/1	0.82	0.20	59,59,59,59	0
57	MG	2A	3732	1/1	0.82	0.22	72,72,72,72	0
57	MG	2A	3200	1/1	0.82	0.21	64,64,64,64	0
57	MG	2A	3745	1/1	0.82	0.17	34,34,34,34	0
57	MG	2A	3412	1/1	0.82	0.16	64,64,64,64	0
57	MG	1A	3399	1/1	0.82	0.15	45,45,45,45	0
57	MG	2A	3422	1/1	0.82	0.16	58,58,58,58	0
57	MG	1A	4003	1/1	0.82	0.12	42,42,42,42	0
57	MG	1A	3735	1/1	0.82	0.14	52,52,52,52	0
57	MG	1A	4014	1/1	0.82	0.12	46,46,46,46	0
57	MG	1A	3924	1/1	0.82	0.13	30,30,30,30	0
57	MG	1a	1658	1/1	0.82	0.14	60,60,60,60	0
57	MG	1A	3611	1/1	0.82	0.17	30,30,30,30	0
57	MG	2a	1728	1/1	0.82	0.19	63,63,63,63	0
57	MG	1B	230	1/1	0.82	0.20	77,77,77,77	0
57	MG	1A	3982	1/1	0.82	0.09	55,55,55,55	0
57	MG	1A	4038	1/1	0.82	0.15	51,51,51,51	0
57	MG	1a	1806	1/1	0.82	0.11	62,62,62,62	0
57	MG	2a	1746	1/1	0.82	0.09	53,53,53,53	0
57	MG	1A	3285	1/1	0.82	0.31	50,50,50,50	0
57	MG	1A	3223	1/1	0.82	0.44	51,51,51,51	0
57	MG	2A	3300	1/1	0.82	0.17	63,63,63,63	0
57	MG	2A	3607	1/1	0.82	0.29	55,55,55,55	0
57	MG	1A	3038	1/1	0.82	0.30	55,55,55,55	0
57	MG	1A	3562	1/1	0.82	0.11	59,59,59,59	0
57	MG	2A	3632	1/1	0.82	0.14	56,56,56,56	0
57	MG	2a	1794	1/1	0.82	0.12	58,58,58,58	0
57	MG	2A	3315	1/1	0.82	0.14	73,73,73,73	0
57	MG	1a	1739	1/1	0.82	0.15	59,59,59,59	0
57	MG	1A	3569	1/1	0.82	0.15	49,49,49,49	0
57	MG	2F	304	1/1	0.82	0.17	43,43,43,43	0
57	MG	10	105	1/1	0.82	0.23	51,51,51,51	0
57	MG	2A	3656	1/1	0.82	0.11	67,67,67,67	0
57	MG	2U	202	1/1	0.82	0.16	60,60,60,60	0
57	MG	2l	204	1/1	0.82	0.09	59,59,59,59	0
57	MG	2A	3659	1/1	0.82	0.17	60,60,60,60	0
57	MG	1a	1744	1/1	0.82	0.08	46,46,46,46	0
57	MG	2w	106	1/1	0.82	0.10	65,65,65,65	0
57	MG	1A	3420	1/1	0.82	0.18	56,56,56,56	0
57	MG	2A	3674	1/1	0.82	0.21	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3175	1/1	0.82	0.20	46,46,46,46	0
57	MG	1A	4052	1/1	0.83	0.09	55,55,55,55	0
57	MG	1A	3379	1/1	0.83	0.12	47,47,47,47	0
57	MG	2A	3604	1/1	0.83	0.15	47,47,47,47	0
57	MG	1A	3527	1/1	0.83	0.37	49,49,49,49	0
57	MG	1E	312	1/1	0.83	0.34	65,65,65,65	0
57	MG	2A	3189	1/1	0.83	0.23	63,63,63,63	0
57	MG	2a	1692	1/1	0.83	0.10	58,58,58,58	0
57	MG	2A	3614	1/1	0.83	0.10	62,62,62,62	0
57	MG	1A	3878	1/1	0.83	0.14	33,33,33,33	0
57	MG	1a	1672	1/1	0.83	0.23	57,57,57,57	0
57	MG	2a	1710	1/1	0.83	0.28	68,68,68,68	0
57	MG	2A	3037	1/1	0.83	0.27	58,58,58,58	0
57	MG	2A	3345	1/1	0.83	0.31	66,66,66,66	0
57	MG	2A	3357	1/1	0.83	0.25	54,54,54,54	0
57	MG	1A	3547	1/1	0.83	0.60	60,60,60,60	0
57	MG	1A	3307	1/1	0.83	0.13	50,50,50,50	0
57	MG	2A	3657	1/1	0.83	0.17	43,43,43,43	0
57	MG	10	102	1/1	0.83	0.15	39,39,39,39	0
57	MG	1a	1712	1/1	0.83	0.18	60,60,60,60	0
57	MG	2A	3387	1/1	0.83	0.16	53,53,53,53	0
57	MG	2B	210	1/1	0.83	0.24	66,66,66,66	0
57	MG	1a	1715	1/1	0.83	0.11	46,46,46,46	0
57	MG	1A	3378	1/1	0.83	0.13	71,71,71,71	0
57	MG	2A	3263	1/1	0.83	0.26	55,55,55,55	0
57	MG	1A	3462	1/1	0.83	0.11	44,44,44,44	0
57	MG	1A	3900	1/1	0.83	0.17	42,42,42,42	0
57	MG	1A	3802	1/1	0.83	0.28	61,61,61,61	0
57	MG	2A	3481	1/1	0.83	0.19	34,34,34,34	0
57	MG	21	101	1/1	0.83	0.18	62,62,62,62	0
57	MG	2a	1775	1/1	0.83	0.16	55,55,55,55	0
57	MG	2A	3272	1/1	0.83	0.15	56,56,56,56	0
57	MG	1A	3488	1/1	0.83	0.19	42,42,42,42	0
57	MG	1A	3908	1/1	0.83	0.12	46,46,46,46	0
57	MG	1a	1624	1/1	0.83	0.10	49,49,49,49	0
57	MG	1a	1629	1/1	0.83	0.25	67,67,67,67	0
57	MG	1a	1763	1/1	0.83	0.12	54,54,54,54	0
57	MG	2A	3135	1/1	0.83	0.21	61,61,61,61	0
57	MG	1A	3824	1/1	0.83	0.08	56,56,56,56	0
57	MG	2A	3739	1/1	0.83	0.10	48,48,48,48	0
57	MG	2a	1620	1/1	0.83	0.15	61,61,61,61	0
57	MG	2A	3560	1/1	0.83	0.18	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3572	1/1	0.83	0.26	43,43,43,43	0
57	MG	2a	1632	1/1	0.83	0.12	67,67,67,67	0
57	MG	1A	4046	1/1	0.83	0.29	52,52,52,52	0
57	MG	1A	3831	1/1	0.83	0.25	48,48,48,48	0
57	MG	2a	1649	1/1	0.83	0.14	54,54,54,54	0
57	MG	2a	1656	1/1	0.84	0.16	48,48,48,48	0
57	MG	1A	3896	1/1	0.84	0.07	54,54,54,54	0
57	MG	2A	3210	1/1	0.84	0.10	61,61,61,61	0
57	MG	1A	3440	1/1	0.84	0.28	59,59,59,59	0
57	MG	2A	3351	1/1	0.84	0.20	52,52,52,52	0
57	MG	2A	3352	1/1	0.84	0.10	66,66,66,66	0
57	MG	2a	1691	1/1	0.84	0.16	58,58,58,58	0
57	MG	2A	3353	1/1	0.84	0.12	55,55,55,55	0
57	MG	1A	3551	1/1	0.84	0.24	35,35,35,35	0
57	MG	2A	3369	1/1	0.84	0.22	35,35,35,35	0
57	MG	2A	3245	1/1	0.84	0.24	56,56,56,56	0
57	MG	1B	229	1/1	0.84	0.13	66,66,66,66	0
57	MG	1A	3780	1/1	0.84	0.12	57,57,57,57	0
57	MG	2A	3835	1/1	0.84	0.06	65,65,65,65	0
57	MG	1a	1608	1/1	0.84	0.18	59,59,59,59	0
57	MG	1A	3941	1/1	0.84	0.06	53,53,53,53	0
57	MG	1x	103	1/1	0.84	0.13	58,58,58,58	0
57	MG	2A	3269	1/1	0.84	0.20	58,58,58,58	0
57	MG	2A	3117	1/1	0.84	0.17	55,55,55,55	0
57	MG	2A	3409	1/1	0.84	0.21	64,64,64,64	0
57	MG	1x	112	1/1	0.84	0.07	61,61,61,61	0
57	MG	1A	3015	1/1	0.84	0.27	46,46,46,46	0
57	MG	2F	305	1/1	0.84	0.26	47,47,47,47	0
57	MG	2A	3420	1/1	0.84	0.17	36,36,36,36	0
57	MG	1A	3286	1/1	0.84	0.16	64,64,64,64	0
57	MG	2T	202	1/1	0.84	0.12	63,63,63,63	0
57	MG	2A	3461	1/1	0.84	0.20	39,39,39,39	0
57	MG	2A	3471	1/1	0.84	0.09	58,58,58,58	0
57	MG	1D	302	1/1	0.84	0.24	60,60,60,60	0
57	MG	2A	3018	1/1	0.84	0.15	41,41,41,41	0
57	MG	1A	3808	1/1	0.84	0.05	55,55,55,55	0
57	MG	2A	3296	1/1	0.84	0.18	56,56,56,56	0
57	MG	2A	3168	1/1	0.84	0.24	62,62,62,62	0
57	MG	1A	4021	1/1	0.84	0.16	33,33,33,33	0
57	MG	2A	3182	1/1	0.84	0.33	69,69,69,69	0
57	MG	2A	3734	1/1	0.84	0.20	54,54,54,54	0
57	MG	1A	3438	1/1	0.84	0.38	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3957	1/1	0.84	0.08	59,59,59,59	0
57	MG	2A	3554	1/1	0.84	0.22	46,46,46,46	0
57	MG	2A	3318	1/1	0.84	0.10	64,64,64,64	0
57	MG	2l	202	1/1	0.84	0.15	59,59,59,59	0
57	MG	2A	3040	1/1	0.84	0.18	46,46,46,46	0
57	MG	1a	1755	1/1	0.84	0.09	48,48,48,48	0
57	MG	2v	101	1/1	0.84	0.12	57,57,57,57	0
57	MG	1U	202	1/1	0.84	0.31	45,45,45,45	0
57	MG	2a	1634	1/1	0.84	0.11	60,60,60,60	0
57	MG	2A	3766	1/1	0.84	0.17	39,39,39,39	0
57	MG	1A	3494	1/1	0.84	0.11	45,45,45,45	0
57	MG	1A	3889	1/1	0.84	0.15	29,29,29,29	0
57	MG	2A	3225	1/1	0.85	0.17	56,56,56,56	0
57	MG	2A	3342	1/1	0.85	0.34	63,63,63,63	0
57	MG	2A	3228	1/1	0.85	0.44	58,58,58,58	0
57	MG	1A	4010	1/1	0.85	0.15	41,41,41,41	0
57	MG	2A	3346	1/1	0.85	0.10	67,67,67,67	0
57	MG	1A	3165	1/1	0.85	0.17	37,37,37,37	0
57	MG	2A	3068	1/1	0.85	0.37	38,38,38,38	0
57	MG	2A	3247	1/1	0.85	0.16	57,57,57,57	0
57	MG	2a	1690	1/1	0.85	0.15	64,64,64,64	0
57	MG	1A	3907	1/1	0.85	0.08	56,56,56,56	0
57	MG	1A	3172	1/1	0.85	0.18	38,38,38,38	0
57	MG	1A	3810	1/1	0.85	0.06	52,52,52,52	0
57	MG	1A	3327	1/1	0.85	0.23	59,59,59,59	0
57	MG	2a	1701	1/1	0.85	0.24	65,65,65,65	0
57	MG	1A	3401	1/1	0.85	0.20	47,47,47,47	0
57	MG	2a	1707	1/1	0.85	0.21	50,50,50,50	0
57	MG	1A	3144	1/1	0.85	0.14	33,33,33,33	0
57	MG	1A	3730	1/1	0.85	0.27	27,27,27,27	0
57	MG	2A	3831	1/1	0.85	0.10	61,61,61,61	0
57	MG	1A	3476	1/1	0.85	0.09	69,69,69,69	0
57	MG	2A	3273	1/1	0.85	0.19	55,55,55,55	0
57	MG	1A	3653	1/1	0.85	0.19	27,27,27,27	0
57	MG	2A	3840	1/1	0.85	0.14	59,59,59,59	0
57	MG	2a	1727	1/1	0.85	0.11	65,65,65,65	0
57	MG	1x	106	1/1	0.85	0.11	62,62,62,62	0
57	MG	1A	3112	1/1	0.85	0.39	39,39,39,39	0
57	MG	2B	209	1/1	0.85	0.14	73,73,73,73	0
57	MG	1A	3350	1/1	0.85	0.16	64,64,64,64	0
57	MG	1A	3427	1/1	0.85	0.16	44,44,44,44	0
57	MG	1a	1673	1/1	0.85	0.11	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3675	1/1	0.85	0.10	60,60,60,60	0
57	MG	2A	3424	1/1	0.85	0.14	50,50,50,50	0
57	MG	2A	3450	1/1	0.85	0.11	64,64,64,64	0
57	MG	1R	205	1/1	0.85	0.12	43,43,43,43	0
57	MG	1a	1697	1/1	0.85	0.08	56,56,56,56	0
57	MG	2A	3474	1/1	0.85	0.12	58,58,58,58	0
57	MG	2A	3476	1/1	0.85	0.19	57,57,57,57	0
57	MG	2a	1780	1/1	0.85	0.23	59,59,59,59	0
57	MG	2a	1787	1/1	0.85	0.13	64,64,64,64	0
57	MG	2A	3311	1/1	0.85	0.25	67,67,67,67	0
57	MG	1A	3382	1/1	0.85	0.23	56,56,56,56	0
57	MG	2a	1801	1/1	0.85	0.08	59,59,59,59	0
57	MG	2A	3722	1/1	0.85	0.14	41,41,41,41	0
57	MG	1A	3574	1/1	0.85	0.20	27,27,27,27	0
57	MG	1A	3353	1/1	0.85	0.30	62,62,62,62	0
57	MG	1A	3686	1/1	0.85	0.14	59,59,59,59	0
57	MG	2a	1827	1/1	0.85	0.04	73,73,73,73	0
57	MG	2a	1828	1/1	0.85	0.12	63,63,63,63	0
57	MG	2A	3499	1/1	0.85	0.19	46,46,46,46	0
57	MG	2A	3045	1/1	0.85	0.20	50,50,50,50	0
57	MG	1A	3902	1/1	0.85	0.08	56,56,56,56	0
57	MG	2a	1616	1/1	0.85	0.15	65,65,65,65	0
57	MG	2A	3522	1/1	0.85	0.27	58,58,58,58	0
57	MG	2A	3528	1/1	0.85	0.17	59,59,59,59	0
57	MG	1A	4111	1/1	0.85	0.13	42,42,42,42	0
57	MG	1a	1807	1/1	0.85	0.23	65,65,65,65	0
57	MG	2A	3552	1/1	0.85	0.21	45,45,45,45	0
57	MG	2A	3750	1/1	0.85	0.15	40,40,40,40	0
57	MG	1A	3691	1/1	0.85	0.19	57,57,57,57	0
57	MG	2A	3763	1/1	0.85	0.15	51,51,51,51	0
57	MG	2A	3421	1/1	0.86	0.26	56,56,56,56	0
57	MG	2A	3278	1/1	0.86	0.11	55,55,55,55	0
57	MG	1a	1726	1/1	0.86	0.11	52,52,52,52	0
57	MG	2A	3435	1/1	0.86	0.11	43,43,43,43	0
57	MG	1a	1727	1/1	0.86	0.14	56,56,56,56	0
57	MG	2A	3724	1/1	0.86	0.15	44,44,44,44	0
57	MG	1A	3799	1/1	0.86	0.14	35,35,35,35	0
57	MG	2A	3462	1/1	0.86	0.11	63,63,63,63	0
57	MG	2A	3138	1/1	0.86	0.22	45,45,45,45	0
57	MG	1A	3956	1/1	0.86	0.24	60,60,60,60	0
57	MG	2a	1658	1/1	0.86	0.16	56,56,56,56	0
57	MG	2a	1660	1/1	0.86	0.19	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3298	1/1	0.86	0.30	71,71,71,71	0
57	MG	1A	3051	1/1	0.86	0.14	49,49,49,49	0
57	MG	2a	1683	1/1	0.86	0.26	61,61,61,61	0
57	MG	1B	210	1/1	0.86	0.16	49,49,49,49	0
57	MG	1A	3465	1/1	0.86	0.37	46,46,46,46	0
57	MG	2A	3312	1/1	0.86	0.20	64,64,64,64	0
57	MG	1A	3728	1/1	0.86	0.22	31,31,31,31	0
57	MG	2A	3498	1/1	0.86	0.19	34,34,34,34	0
57	MG	2A	3171	1/1	0.86	0.15	52,52,52,52	0
57	MG	2A	3172	1/1	0.86	0.23	42,42,42,42	0
57	MG	1A	3812	1/1	0.86	0.10	50,50,50,50	0
57	MG	2A	3521	1/1	0.86	0.18	62,62,62,62	0
57	MG	2A	3321	1/1	0.86	0.22	65,65,65,65	0
57	MG	2A	3323	1/1	0.86	0.17	58,58,58,58	0
57	MG	1a	1632	1/1	0.86	0.23	58,58,58,58	0
57	MG	1A	3114	1/1	0.86	0.21	50,50,50,50	0
57	MG	1A	3910	1/1	0.86	0.18	45,45,45,45	0
57	MG	1A	4032	1/1	0.86	0.18	43,43,43,43	0
57	MG	2A	3558	1/1	0.86	0.15	54,54,54,54	0
57	MG	1A	3818	1/1	0.86	0.07	59,59,59,59	0
57	MG	2a	1725	1/1	0.86	0.12	64,64,64,64	0
57	MG	2A	3563	1/1	0.86	0.29	56,56,56,56	0
57	MG	2A	3565	1/1	0.86	0.18	53,53,53,53	0
57	MG	1A	3206	1/1	0.86	0.18	59,59,59,59	0
57	MG	1A	3341	1/1	0.86	0.15	46,46,46,46	0
57	MG	1A	3429	1/1	0.86	0.37	38,38,38,38	0
57	MG	2A	3829	1/1	0.86	0.09	53,53,53,53	0
57	MG	2a	1735	1/1	0.86	0.08	60,60,60,60	0
57	MG	1a	1779	1/1	0.86	0.08	60,60,60,60	0
57	MG	2A	3600	1/1	0.86	0.13	59,59,59,59	0
57	MG	2A	3205	1/1	0.86	0.20	47,47,47,47	0
57	MG	2A	3348	1/1	0.86	0.11	54,54,54,54	0
57	MG	1A	3297	1/1	0.86	0.15	42,42,42,42	0
57	MG	1G	203	1/1	0.86	0.09	55,55,55,55	0
57	MG	1A	3855	1/1	0.86	0.14	29,29,29,29	0
57	MG	2A	3611	1/1	0.86	0.14	60,60,60,60	0
57	MG	2A	3354	1/1	0.86	0.16	68,68,68,68	0
57	MG	2A	3048	1/1	0.86	0.17	60,60,60,60	0
57	MG	2A	3625	1/1	0.86	0.11	47,47,47,47	0
57	MG	2E	305	1/1	0.86	0.19	34,34,34,34	0
57	MG	2F	303	1/1	0.86	0.17	56,56,56,56	0
57	MG	1A	3385	1/1	0.86	0.08	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1794	1/1	0.86	0.12	59,59,59,59	0
57	MG	2A	3371	1/1	0.86	0.22	58,58,58,58	0
57	MG	2A	3374	1/1	0.86	0.26	58,58,58,58	0
57	MG	1a	1686	1/1	0.86	0.14	44,44,44,44	0
57	MG	2T	204	1/1	0.86	0.10	69,69,69,69	0
57	MG	2A	3379	1/1	0.86	0.14	49,49,49,49	0
57	MG	2a	1829	1/1	0.86	0.17	46,46,46,46	0
57	MG	1A	3761	1/1	0.86	0.19	17,17,17,17	0
57	MG	1A	3214	1/1	0.86	0.23	51,51,51,51	0
57	MG	2A	3662	1/1	0.86	0.11	57,57,57,57	0
57	MG	1a	1703	1/1	0.86	0.11	44,44,44,44	0
57	MG	1a	1706	1/1	0.86	0.17	70,70,70,70	0
57	MG	1A	3504	1/1	0.86	0.12	61,61,61,61	0
57	MG	2A	3390	1/1	0.86	0.28	58,58,58,58	0
57	MG	1a	1711	1/1	0.86	0.14	59,59,59,59	0
57	MG	1a	1814	1/1	0.86	0.10	69,69,69,69	0
57	MG	1A	3158	1/1	0.86	0.12	38,38,38,38	0
57	MG	1A	3126	1/1	0.86	0.09	50,50,50,50	0
57	MG	1A	3092	1/1	0.86	0.08	59,59,59,59	0
57	MG	1O	203	1/1	0.87	0.16	52,52,52,52	0
57	MG	1A	3960	1/1	0.87	0.19	47,47,47,47	0
57	MG	2A	3467	1/1	0.87	0.18	34,34,34,34	0
57	MG	2A	3305	1/1	0.87	0.69	73,73,73,73	0
57	MG	2a	1637	1/1	0.87	0.13	53,53,53,53	0
57	MG	1A	3523	1/1	0.87	0.21	41,41,41,41	0
57	MG	1A	3431	1/1	0.87	0.25	58,58,58,58	0
57	MG	2A	3480	1/1	0.87	0.20	59,59,59,59	0
57	MG	2a	1655	1/1	0.87	0.14	47,47,47,47	0
57	MG	1a	1721	1/1	0.87	0.09	65,65,65,65	0
57	MG	1a	1722	1/1	0.87	0.10	55,55,55,55	0
57	MG	1a	1724	1/1	0.87	0.10	50,50,50,50	0
57	MG	1A	3483	1/1	0.87	0.24	34,34,34,34	0
57	MG	1A	3536	1/1	0.87	0.11	32,32,32,32	0
57	MG	2A	3742	1/1	0.87	0.10	48,48,48,48	0
57	MG	2A	3319	1/1	0.87	0.15	54,54,54,54	0
57	MG	2a	1686	1/1	0.87	0.10	55,55,55,55	0
57	MG	10	103	1/1	0.87	0.14	42,42,42,42	0
57	MG	1A	3975	1/1	0.87	0.09	43,43,43,43	0
57	MG	2A	3513	1/1	0.87	0.21	50,50,50,50	0
57	MG	1A	3363	1/1	0.87	0.29	49,49,49,49	0
57	MG	1A	3439	1/1	0.87	0.30	66,66,66,66	0
57	MG	1A	3408	1/1	0.87	0.14	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1601	1/1	0.87	0.09	52,52,52,52	0
57	MG	2A	3531	1/1	0.87	0.21	32,32,32,32	0
57	MG	2a	1704	1/1	0.87	0.21	62,62,62,62	0
57	MG	2A	3335	1/1	0.87	0.19	54,54,54,54	0
57	MG	2a	1706	1/1	0.87	0.14	68,68,68,68	0
57	MG	2A	3013	1/1	0.87	0.17	52,52,52,52	0
57	MG	1A	3984	1/1	0.87	0.11	48,48,48,48	0
57	MG	1A	3272	1/1	0.87	0.17	51,51,51,51	0
57	MG	1A	3656	1/1	0.87	0.12	52,52,52,52	0
57	MG	1A	3657	1/1	0.87	0.25	28,28,28,28	0
57	MG	1A	3825	1/1	0.87	0.06	43,43,43,43	0
57	MG	2A	3214	1/1	0.87	0.11	53,53,53,53	0
57	MG	1A	3229	1/1	0.87	0.14	59,59,59,59	0
57	MG	2A	3578	1/1	0.87	0.19	55,55,55,55	0
57	MG	1A	3832	1/1	0.87	0.08	45,45,45,45	0
57	MG	2A	3580	1/1	0.87	0.17	46,46,46,46	0
57	MG	2A	3583	1/1	0.87	0.12	60,60,60,60	0
57	MG	1A	3741	1/1	0.87	0.11	27,27,27,27	0
57	MG	2a	1733	1/1	0.87	0.10	56,56,56,56	0
57	MG	2A	3833	1/1	0.87	0.09	49,49,49,49	0
57	MG	1A	3931	1/1	0.87	0.16	50,50,50,50	0
57	MG	2A	3244	1/1	0.87	0.36	59,59,59,59	0
57	MG	2A	3358	1/1	0.87	0.12	57,57,57,57	0
57	MG	2A	3362	1/1	0.87	0.19	56,56,56,56	0
57	MG	2A	3051	1/1	0.87	0.30	62,62,62,62	0
57	MG	2B	206	1/1	0.87	0.13	50,50,50,50	0
57	MG	1A	3248	1/1	0.87	0.11	51,51,51,51	0
57	MG	1A	3361	1/1	0.87	0.15	55,55,55,55	0
57	MG	1A	3873	1/1	0.87	0.11	57,57,57,57	0
57	MG	1A	3756	1/1	0.87	0.18	46,46,46,46	0
57	MG	1A	3584	1/1	0.87	0.09	60,60,60,60	0
57	MG	2a	1784	1/1	0.87	0.12	72,72,72,72	0
57	MG	1A	3589	1/1	0.87	0.20	46,46,46,46	0
57	MG	2A	3268	1/1	0.87	0.23	68,68,68,68	0
57	MG	2A	3633	1/1	0.87	0.16	53,53,53,53	0
57	MG	2A	3385	1/1	0.87	0.23	56,56,56,56	0
57	MG	2a	1811	1/1	0.87	0.12	65,65,65,65	0
57	MG	1A	4015	1/1	0.87	0.26	59,59,59,59	0
57	MG	2A	3649	1/1	0.87	0.44	60,60,60,60	0
57	MG	1A	3186	1/1	0.87	0.15	32,32,32,32	0
57	MG	1A	3765	1/1	0.87	0.12	48,48,48,48	0
57	MG	1a	1688	1/1	0.87	0.17	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3394	1/1	0.87	0.14	47,47,47,47	0
57	MG	2A	3274	1/1	0.87	0.11	64,64,64,64	0
57	MG	2A	3661	1/1	0.87	0.21	46,46,46,46	0
57	MG	2A	3087	1/1	0.87	0.21	38,38,38,38	0
57	MG	1A	3690	1/1	0.87	0.16	47,47,47,47	0
57	MG	2A	3279	1/1	0.87	0.23	52,52,52,52	0
57	MG	1F	311	1/1	0.87	0.26	56,56,56,56	0
57	MG	2A	3281	1/1	0.87	0.53	58,58,58,58	0
57	MG	1A	3779	1/1	0.87	0.17	25,25,25,25	0
57	MG	1I	201	1/1	0.87	0.11	55,55,55,55	0
57	MG	2w	104	1/1	0.87	0.29	48,48,48,48	0
57	MG	2A	3119	1/1	0.87	0.16	43,43,43,43	0
57	MG	2A	3444	1/1	0.87	0.15	36,36,36,36	0
57	MG	2x	107	1/1	0.87	0.12	38,38,38,38	0
57	MG	2A	3448	1/1	0.87	0.20	34,34,34,34	0
57	MG	1A	3959	1/1	0.87	0.08	43,43,43,43	0
57	MG	2A	3458	1/1	0.88	0.11	57,57,57,57	0
57	MG	1A	3687	1/1	0.88	0.09	42,42,42,42	0
57	MG	1A	3575	1/1	0.88	0.13	48,48,48,48	0
57	MG	1A	3282	1/1	0.88	0.29	58,58,58,58	0
57	MG	1A	3346	1/1	0.88	0.22	40,40,40,40	0
57	MG	1a	1725	1/1	0.88	0.20	56,56,56,56	0
57	MG	2a	1630	1/1	0.88	0.17	67,67,67,67	0
57	MG	2A	3693	1/1	0.88	0.10	48,48,48,48	0
57	MG	2A	3704	1/1	0.88	0.14	57,57,57,57	0
57	MG	2A	3475	1/1	0.88	0.17	43,43,43,43	0
57	MG	2A	3713	1/1	0.88	0.11	55,55,55,55	0
57	MG	10	108	1/1	0.88	0.15	62,62,62,62	0
57	MG	1A	3166	1/1	0.88	0.18	43,43,43,43	0
57	MG	1A	3086	1/1	0.88	0.29	36,36,36,36	0
57	MG	1A	3507	1/1	0.88	0.22	24,24,24,24	0
57	MG	1x	108	1/1	0.88	0.18	66,66,66,66	0
57	MG	1a	1738	1/1	0.88	0.11	69,69,69,69	0
57	MG	2A	3190	1/1	0.88	0.15	53,53,53,53	0
57	MG	2a	1661	1/1	0.88	0.12	57,57,57,57	0
57	MG	2a	1666	1/1	0.88	0.09	59,59,59,59	0
57	MG	1A	3613	1/1	0.88	0.17	55,55,55,55	0
57	MG	1A	3512	1/1	0.88	0.15	58,58,58,58	0
57	MG	2A	3505	1/1	0.88	0.18	37,37,37,37	0
57	MG	1A	3828	1/1	0.88	0.19	40,40,40,40	0
57	MG	1A	3515	1/1	0.88	0.10	56,56,56,56	0
57	MG	2A	3514	1/1	0.88	0.21	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2a	1688	1/1	0.88	0.09	64,64,64,64	0
57	MG	1a	1750	1/1	0.88	0.11	57,57,57,57	0
57	MG	2A	3747	1/1	0.88	0.20	40,40,40,40	0
57	MG	2A	3203	1/1	0.88	0.23	41,41,41,41	0
57	MG	2A	3026	1/1	0.88	0.23	37,37,37,37	0
57	MG	2A	3756	1/1	0.88	0.12	65,65,65,65	0
57	MG	2a	1694	1/1	0.88	0.07	57,57,57,57	0
57	MG	1A	3295	1/1	0.88	0.25	44,44,44,44	0
57	MG	2A	3762	1/1	0.88	0.21	41,41,41,41	0
57	MG	1A	3840	1/1	0.88	0.18	35,35,35,35	0
57	MG	2A	3540	1/1	0.88	0.17	64,64,64,64	0
57	MG	2A	3347	1/1	0.88	0.14	61,61,61,61	0
57	MG	1B	224	1/1	0.88	0.18	53,53,53,53	0
57	MG	2A	3774	1/1	0.88	0.25	70,70,70,70	0
57	MG	2a	1711	1/1	0.88	0.20	52,52,52,52	0
57	MG	1A	4004	1/1	0.88	0.09	54,54,54,54	0
57	MG	2A	3232	1/1	0.88	0.13	59,59,59,59	0
57	MG	2a	1715	1/1	0.88	0.13	61,61,61,61	0
57	MG	2A	3779	1/1	0.88	0.15	56,56,56,56	0
57	MG	1A	3643	1/1	0.88	0.08	46,46,46,46	0
57	MG	1A	3175	1/1	0.88	0.15	41,41,41,41	0
57	MG	2A	3786	1/1	0.88	0.21	55,55,55,55	0
57	MG	2A	3801	1/1	0.88	0.12	52,52,52,52	0
57	MG	1A	3647	1/1	0.88	0.22	39,39,39,39	0
57	MG	1a	1772	1/1	0.88	0.13	49,49,49,49	0
57	MG	1A	3652	1/1	0.88	0.20	33,33,33,33	0
57	MG	1A	3026	1/1	0.88	0.09	73,73,73,73	0
57	MG	2A	3259	1/1	0.88	0.11	64,64,64,64	0
57	MG	1A	3122	1/1	0.88	0.14	33,33,33,33	0
57	MG	2A	3582	1/1	0.88	0.21	42,42,42,42	0
57	MG	1a	1662	1/1	0.88	0.17	61,61,61,61	0
57	MG	1a	1670	1/1	0.88	0.37	64,64,64,64	0
57	MG	1A	3412	1/1	0.88	0.28	44,44,44,44	0
57	MG	1E	315	1/1	0.88	0.13	34,34,34,34	0
57	MG	1A	3417	1/1	0.88	0.13	53,53,53,53	0
57	MG	2A	3270	1/1	0.88	0.17	62,62,62,62	0
57	MG	2a	1767	1/1	0.88	0.14	57,57,57,57	0
57	MG	2A	3605	1/1	0.88	0.12	52,52,52,52	0
57	MG	1A	3246	1/1	0.88	0.14	37,37,37,37	0
57	MG	1A	3111	1/1	0.88	0.14	33,33,33,33	0
57	MG	1a	1691	1/1	0.88	0.14	63,63,63,63	0
57	MG	1A	3568	1/1	0.88	0.21	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3391	1/1	0.88	0.21	45,45,45,45	0
57	MG	2A	3392	1/1	0.88	0.20	47,47,47,47	0
57	MG	2A	3617	1/1	0.88	0.18	68,68,68,68	0
57	MG	2a	1800	1/1	0.88	0.21	71,71,71,71	0
57	MG	2A	3624	1/1	0.88	0.15	56,56,56,56	0
57	MG	2A	3393	1/1	0.88	0.14	68,68,68,68	0
57	MG	2A	3092	1/1	0.88	0.08	59,59,59,59	0
57	MG	1A	3205	1/1	0.88	0.29	44,44,44,44	0
57	MG	2A	3097	1/1	0.88	0.13	63,63,63,63	0
57	MG	2F	307	1/1	0.88	0.28	48,48,48,48	0
57	MG	2F	308	1/1	0.88	0.15	55,55,55,55	0
57	MG	2A	3411	1/1	0.88	0.28	64,64,64,64	0
57	MG	2A	3640	1/1	0.88	0.14	27,27,27,27	0
57	MG	2R	201	1/1	0.88	0.19	57,57,57,57	0
57	MG	1O	204	1/1	0.88	0.12	63,63,63,63	0
57	MG	1a	1704	1/1	0.88	0.13	51,51,51,51	0
57	MG	2A	3415	1/1	0.88	0.47	63,63,63,63	0
57	MG	2W	201	1/1	0.88	0.23	50,50,50,50	0
57	MG	2m	201	1/1	0.88	0.09	68,68,68,68	0
57	MG	2A	3417	1/1	0.88	0.22	69,69,69,69	0
57	MG	1A	3133	1/1	0.88	0.17	49,49,49,49	0
57	MG	1A	3791	1/1	0.88	0.32	50,50,50,50	0
57	MG	2w	102	1/1	0.88	0.19	74,74,74,74	0
57	MG	2w	103	1/1	0.88	0.17	65,65,65,65	0
57	MG	2A	3292	1/1	0.88	0.21	68,68,68,68	0
57	MG	1A	3279	1/1	0.88	0.25	47,47,47,47	0
57	MG	1A	3797	1/1	0.88	0.11	54,54,54,54	0
57	MG	2x	106	1/1	0.88	0.10	29,29,29,29	0
57	MG	2A	3148	1/1	0.88	0.11	54,54,54,54	0
57	MG	1Z	301	1/1	0.88	0.13	50,50,50,50	0
57	MG	2A	3159	1/1	0.88	0.07	54,54,54,54	0
57	MG	2A	3194	1/1	0.89	0.19	50,50,50,50	0
57	MG	1A	4095	1/1	0.89	0.12	56,56,56,56	0
57	MG	1A	3434	1/1	0.89	0.14	33,33,33,33	0
57	MG	2A	3199	1/1	0.89	0.08	70,70,70,70	0
57	MG	1A	3717	1/1	0.89	0.15	14,14,14,14	0
57	MG	25	101	1/1	0.89	0.14	57,57,57,57	0
57	MG	27	101	1/1	0.89	0.37	53,53,53,53	0
57	MG	28	102	1/1	0.89	0.28	48,48,48,48	0
57	MG	1A	4107	1/1	0.89	0.17	53,53,53,53	0
57	MG	1A	3723	1/1	0.89	0.19	38,38,38,38	0
57	MG	1A	4112	1/1	0.89	0.12	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3651	1/1	0.89	0.13	48,48,48,48	0
57	MG	2a	1608	1/1	0.89	0.14	66,66,66,66	0
57	MG	2A	3206	1/1	0.89	0.13	49,49,49,49	0
57	MG	1A	3121	1/1	0.89	0.15	63,63,63,63	0
57	MG	1A	3089	1/1	0.89	0.09	46,46,46,46	0
57	MG	2A	3221	1/1	0.89	0.26	62,62,62,62	0
57	MG	2A	3222	1/1	0.89	0.06	63,63,63,63	0
57	MG	2a	1617	1/1	0.89	0.14	57,57,57,57	0
57	MG	2A	3223	1/1	0.89	0.18	48,48,48,48	0
57	MG	1A	3337	1/1	0.89	0.12	34,34,34,34	0
57	MG	2a	1621	1/1	0.89	0.13	58,58,58,58	0
57	MG	2A	3664	1/1	0.89	0.18	50,50,50,50	0
57	MG	2a	1626	1/1	0.89	0.11	74,74,74,74	0
57	MG	1A	3633	1/1	0.89	0.12	35,35,35,35	0
57	MG	1x	110	1/1	0.89	0.15	23,23,23,23	0
57	MG	2A	3404	1/1	0.89	0.16	63,63,63,63	0
57	MG	1A	3864	1/1	0.89	0.14	42,42,42,42	0
57	MG	1A	3868	1/1	0.89	0.12	42,42,42,42	0
57	MG	2A	3679	1/1	0.89	0.15	63,63,63,63	0
57	MG	1A	3970	1/1	0.89	0.14	27,27,27,27	0
57	MG	2a	1643	1/1	0.89	0.27	61,61,61,61	0
57	MG	1A	3973	1/1	0.89	0.20	31,31,31,31	0
57	MG	1A	3734	1/1	0.89	0.14	15,15,15,15	0
57	MG	2A	3250	1/1	0.89	0.38	65,65,65,65	0
57	MG	1A	3634	1/1	0.89	0.17	42,42,42,42	0
57	MG	1A	3443	1/1	0.89	0.30	52,52,52,52	0
57	MG	2A	3027	1/1	0.89	0.22	49,49,49,49	0
57	MG	2A	3706	1/1	0.89	0.12	66,66,66,66	0
57	MG	1A	3444	1/1	0.89	0.12	45,45,45,45	0
57	MG	2a	1667	1/1	0.89	0.15	52,52,52,52	0
57	MG	1A	3024	1/1	0.89	0.21	34,34,34,34	0
57	MG	2a	1671	1/1	0.89	0.20	47,47,47,47	0
57	MG	1A	3887	1/1	0.89	0.10	48,48,48,48	0
57	MG	2A	3719	1/1	0.89	0.16	35,35,35,35	0
57	MG	1A	3288	1/1	0.89	0.21	47,47,47,47	0
57	MG	1A	3759	1/1	0.89	0.19	15,15,15,15	0
57	MG	2A	3452	1/1	0.89	0.25	40,40,40,40	0
57	MG	1A	3292	1/1	0.89	0.13	57,57,57,57	0
57	MG	1A	3458	1/1	0.89	0.24	57,57,57,57	0
57	MG	1a	1732	1/1	0.89	0.10	63,63,63,63	0
57	MG	1A	3234	1/1	0.89	0.17	27,27,27,27	0
57	MG	1A	3998	1/1	0.89	0.12	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3735	1/1	0.89	0.12	63,63,63,63	0
57	MG	1A	3552	1/1	0.89	0.17	35,35,35,35	0
57	MG	2A	3738	1/1	0.89	0.13	55,55,55,55	0
57	MG	1A	3660	1/1	0.89	0.17	31,31,31,31	0
57	MG	1A	3906	1/1	0.89	0.20	24,24,24,24	0
57	MG	2A	3744	1/1	0.89	0.20	50,50,50,50	0
57	MG	1A	3198	1/1	0.89	0.18	31,31,31,31	0
57	MG	1A	3468	1/1	0.89	0.11	40,40,40,40	0
57	MG	2A	3284	1/1	0.89	0.13	58,58,58,58	0
57	MG	1A	3782	1/1	0.89	0.08	47,47,47,47	0
57	MG	2A	3488	1/1	0.89	0.18	34,34,34,34	0
57	MG	2A	3755	1/1	0.89	0.17	37,37,37,37	0
57	MG	2A	3286	1/1	0.89	0.08	64,64,64,64	0
57	MG	2a	1721	1/1	0.89	0.11	68,68,68,68	0
57	MG	1W	202	1/1	0.89	0.22	44,44,44,44	0
57	MG	1X	102	1/1	0.89	0.24	40,40,40,40	0
57	MG	1a	1762	1/1	0.89	0.10	56,56,56,56	0
57	MG	2A	3764	1/1	0.89	0.12	37,37,37,37	0
57	MG	1A	3787	1/1	0.89	0.14	31,31,31,31	0
57	MG	1A	3056	1/1	0.89	0.29	39,39,39,39	0
57	MG	1A	3479	1/1	0.89	0.20	42,42,42,42	0
57	MG	2A	3773	1/1	0.89	0.17	25,25,25,25	0
57	MG	2A	3096	1/1	0.89	0.14	64,64,64,64	0
57	MG	2A	3775	1/1	0.89	0.10	50,50,50,50	0
57	MG	2A	3517	1/1	0.89	0.17	45,45,45,45	0
57	MG	2A	3308	1/1	0.89	0.16	54,54,54,54	0
57	MG	2A	3519	1/1	0.89	0.27	66,66,66,66	0
57	MG	1A	3171	1/1	0.89	0.15	42,42,42,42	0
57	MG	1A	3917	1/1	0.89	0.53	67,67,67,67	0
57	MG	2A	3111	1/1	0.89	0.14	63,63,63,63	0
57	MG	2a	1754	1/1	0.89	0.09	69,69,69,69	0
57	MG	2a	1755	1/1	0.89	0.08	68,68,68,68	0
57	MG	1A	3918	1/1	0.89	0.21	52,52,52,52	0
57	MG	1A	3921	1/1	0.89	0.10	39,39,39,39	0
57	MG	2A	3124	1/1	0.89	0.10	33,33,33,33	0
57	MG	1A	3486	1/1	0.89	0.19	44,44,44,44	0
57	MG	1A	3800	1/1	0.89	0.12	39,39,39,39	0
57	MG	1A	3312	1/1	0.89	0.26	57,57,57,57	0
57	MG	2A	3141	1/1	0.89	0.16	59,59,59,59	0
57	MG	2A	3816	1/1	0.89	0.09	61,61,61,61	0
57	MG	2A	3819	1/1	0.89	0.14	70,70,70,70	0
57	MG	1a	1606	1/1	0.89	0.13	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3155	1/1	0.89	0.17	57,57,57,57	0
57	MG	1A	3578	1/1	0.89	0.10	43,43,43,43	0
57	MG	2A	3570	1/1	0.89	0.24	54,54,54,54	0
57	MG	2a	1802	1/1	0.89	0.19	56,56,56,56	0
57	MG	2a	1809	1/1	0.89	0.19	68,68,68,68	0
57	MG	1A	3934	1/1	0.89	0.21	55,55,55,55	0
57	MG	2A	3574	1/1	0.89	0.13	34,34,34,34	0
57	MG	2A	3575	1/1	0.89	0.18	37,37,37,37	0
57	MG	1A	3317	1/1	0.89	0.15	56,56,56,56	0
57	MG	2A	3336	1/1	0.89	0.09	48,48,48,48	0
57	MG	2A	3841	1/1	0.89	0.14	58,58,58,58	0
57	MG	1A	3694	1/1	0.89	0.17	24,24,24,24	0
57	MG	2B	202	1/1	0.89	0.13	64,64,64,64	0
57	MG	2A	3581	1/1	0.89	0.13	43,43,43,43	0
57	MG	1A	3266	1/1	0.89	0.11	47,47,47,47	0
57	MG	1A	3817	1/1	0.89	0.18	57,57,57,57	0
57	MG	1A	3058	1/1	0.89	0.10	43,43,43,43	0
57	MG	1A	4079	1/1	0.89	0.27	53,53,53,53	0
57	MG	1A	4086	1/1	0.89	0.09	57,57,57,57	0
57	MG	2A	3180	1/1	0.89	0.19	60,60,60,60	0
57	MG	2E	306	1/1	0.89	0.10	57,57,57,57	0
57	MG	1A	3004	1/1	0.89	0.14	37,37,37,37	0
57	MG	2A	3183	1/1	0.89	0.14	59,59,59,59	0
57	MG	1a	1651	1/1	0.89	0.15	60,60,60,60	0
57	MG	1a	1657	1/1	0.89	0.07	54,54,54,54	0
57	MG	1A	4089	1/1	0.89	0.14	51,51,51,51	0
57	MG	2N	201	1/1	0.89	0.26	64,64,64,64	0
57	MG	1A	3329	1/1	0.89	0.18	49,49,49,49	0
57	MG	1A	3955	1/1	0.89	0.23	40,40,40,40	0
57	MG	2A	3192	1/1	0.89	0.18	60,60,60,60	0
57	MG	2A	3193	1/1	0.89	0.10	61,61,61,61	0
57	MG	1F	310	1/1	0.90	0.13	28,28,28,28	0
57	MG	2A	3299	1/1	0.90	0.12	57,57,57,57	0
57	MG	2A	3080	1/1	0.90	0.14	58,58,58,58	0
57	MG	1A	3140	1/1	0.90	0.16	31,31,31,31	0
57	MG	2A	3306	1/1	0.90	0.16	69,69,69,69	0
57	MG	1a	1728	1/1	0.90	0.11	55,55,55,55	0
57	MG	2A	3085	1/1	0.90	0.30	48,48,48,48	0
57	MG	1A	3689	1/1	0.90	0.14	64,64,64,64	0
57	MG	1A	3492	1/1	0.90	0.14	67,67,67,67	0
57	MG	1A	3371	1/1	0.90	0.10	44,44,44,44	0
57	MG	1A	3692	1/1	0.90	0.13	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3375	1/1	0.90	0.26	55,55,55,55	0
57	MG	1A	3695	1/1	0.90	0.13	21,21,21,21	0
57	MG	2A	3589	1/1	0.90	0.14	55,55,55,55	0
57	MG	2A	3100	1/1	0.90	0.22	35,35,35,35	0
57	MG	1A	3376	1/1	0.90	0.22	43,43,43,43	0
57	MG	2A	3104	1/1	0.90	0.16	49,49,49,49	0
57	MG	1T	202	1/1	0.90	0.21	48,48,48,48	0
57	MG	1a	1749	1/1	0.90	0.07	65,65,65,65	0
57	MG	2A	3327	1/1	0.90	0.20	57,57,57,57	0
57	MG	1A	3018	1/1	0.90	0.27	46,46,46,46	0
57	MG	25	102	1/1	0.90	0.12	46,46,46,46	0
57	MG	1U	204	1/1	0.90	0.18	32,32,32,32	0
57	MG	1A	3117	1/1	0.90	0.26	37,37,37,37	0
57	MG	2A	3615	1/1	0.90	0.23	60,60,60,60	0
57	MG	1a	1756	1/1	0.90	0.11	54,54,54,54	0
57	MG	1A	3709	1/1	0.90	0.25	54,54,54,54	0
57	MG	2A	3621	1/1	0.90	0.21	44,44,44,44	0
57	MG	2A	3622	1/1	0.90	0.18	72,72,72,72	0
57	MG	2a	1609	1/1	0.90	0.17	62,62,62,62	0
57	MG	1A	4023	1/1	0.90	0.12	36,36,36,36	0
57	MG	2A	3341	1/1	0.90	0.24	50,50,50,50	0
57	MG	1X	103	1/1	0.90	0.21	41,41,41,41	0
57	MG	2A	3149	1/1	0.90	0.16	63,63,63,63	0
57	MG	1A	3090	1/1	0.90	0.19	63,63,63,63	0
57	MG	1Z	302	1/1	0.90	0.11	57,57,57,57	0
57	MG	2A	3639	1/1	0.90	0.15	65,65,65,65	0
57	MG	1A	3713	1/1	0.90	0.16	34,34,34,34	0
57	MG	2A	3641	1/1	0.90	0.11	60,60,60,60	0
57	MG	2A	3642	1/1	0.90	0.15	51,51,51,51	0
57	MG	2A	3645	1/1	0.90	0.21	52,52,52,52	0
57	MG	2A	3647	1/1	0.90	0.22	30,30,30,30	0
57	MG	1A	3615	1/1	0.90	0.18	32,32,32,32	0
57	MG	1A	3938	1/1	0.90	0.51	65,65,65,65	0
57	MG	1A	3939	1/1	0.90	0.14	42,42,42,42	0
57	MG	1A	3619	1/1	0.90	0.15	50,50,50,50	0
57	MG	17	105	1/1	0.90	0.22	38,38,38,38	0
57	MG	1A	3718	1/1	0.90	0.18	28,28,28,28	0
57	MG	1A	3241	1/1	0.90	0.28	43,43,43,43	0
57	MG	2A	3176	1/1	0.90	0.17	52,52,52,52	0
57	MG	1A	4050	1/1	0.90	0.22	52,52,52,52	0
57	MG	2a	1654	1/1	0.90	0.11	64,64,64,64	0
57	MG	1A	3628	1/1	0.90	0.17	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3950	1/1	0.90	0.16	34,34,34,34	0
57	MG	2A	3372	1/1	0.90	0.49	56,56,56,56	0
57	MG	1A	4073	1/1	0.90	0.17	49,49,49,49	0
57	MG	2A	3186	1/1	0.90	0.26	56,56,56,56	0
57	MG	1A	3951	1/1	0.90	0.16	22,22,22,22	0
57	MG	1A	3339	1/1	0.90	0.16	46,46,46,46	0
57	MG	2A	3382	1/1	0.90	0.17	54,54,54,54	0
57	MG	1A	4083	1/1	0.90	0.12	48,48,48,48	0
57	MG	1A	4085	1/1	0.90	0.14	48,48,48,48	0
57	MG	1A	3846	1/1	0.90	0.11	38,38,38,38	0
57	MG	1a	1810	1/1	0.90	0.08	56,56,56,56	0
57	MG	1a	1811	1/1	0.90	0.06	44,44,44,44	0
57	MG	1a	1634	1/1	0.90	0.11	60,60,60,60	0
57	MG	2A	3196	1/1	0.90	0.15	54,54,54,54	0
57	MG	2A	3197	1/1	0.90	0.30	53,53,53,53	0
57	MG	1a	1815	1/1	0.90	0.05	77,77,77,77	0
57	MG	2A	3716	1/1	0.90	0.17	56,56,56,56	0
57	MG	1a	1638	1/1	0.90	0.09	53,53,53,53	0
57	MG	2A	3397	1/1	0.90	0.26	36,36,36,36	0
57	MG	1A	3847	1/1	0.90	0.20	27,27,27,27	0
57	MG	1a	1641	1/1	0.90	0.17	35,35,35,35	0
57	MG	2a	1700	1/1	0.90	0.18	62,62,62,62	0
57	MG	1a	1642	1/1	0.90	0.10	41,41,41,41	0
57	MG	2A	3725	1/1	0.90	0.19	50,50,50,50	0
57	MG	1A	3386	1/1	0.90	0.09	59,59,59,59	0
57	MG	1e	202	1/1	0.90	0.18	50,50,50,50	0
57	MG	1f	201	1/1	0.90	0.19	42,42,42,42	0
57	MG	1A	3293	1/1	0.90	0.13	35,35,35,35	0
57	MG	1A	3343	1/1	0.90	0.12	44,44,44,44	0
57	MG	1w	103	1/1	0.90	0.10	53,53,53,53	0
57	MG	1A	3008	1/1	0.90	0.15	22,22,22,22	0
57	MG	1a	1654	1/1	0.90	0.19	51,51,51,51	0
57	MG	2a	1718	1/1	0.90	0.30	57,57,57,57	0
57	MG	2A	3423	1/1	0.90	0.20	32,32,32,32	0
57	MG	2A	3227	1/1	0.90	0.17	54,54,54,54	0
57	MG	1A	3871	1/1	0.90	0.14	50,50,50,50	0
57	MG	2A	3437	1/1	0.90	0.24	54,54,54,54	0
57	MG	2A	3442	1/1	0.90	0.16	53,53,53,53	0
57	MG	1A	3534	1/1	0.90	0.13	53,53,53,53	0
57	MG	1A	3745	1/1	0.90	0.12	42,42,42,42	0
57	MG	1A	3080	1/1	0.90	0.14	39,39,39,39	0
57	MG	2A	3238	1/1	0.90	0.29	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3881	1/1	0.90	0.12	33,33,33,33	0
57	MG	2A	3757	1/1	0.90	0.09	48,48,48,48	0
57	MG	2A	3460	1/1	0.90	0.09	54,54,54,54	0
57	MG	1a	1666	1/1	0.90	0.08	73,73,73,73	0
57	MG	2a	1739	1/1	0.90	0.09	82,82,82,82	0
57	MG	1A	4113	1/1	0.90	0.23	45,45,45,45	0
57	MG	2a	1744	1/1	0.90	0.11	46,46,46,46	0
57	MG	2A	3003	1/1	0.90	0.19	55,55,55,55	0
57	MG	1A	3883	1/1	0.90	0.15	29,29,29,29	0
57	MG	2A	3255	1/1	0.90	0.10	62,62,62,62	0
57	MG	1B	202	1/1	0.90	0.32	56,56,56,56	0
57	MG	1A	3540	1/1	0.90	0.23	24,24,24,24	0
57	MG	1a	1683	1/1	0.90	0.20	60,60,60,60	0
57	MG	1A	3546	1/1	0.90	0.23	44,44,44,44	0
57	MG	2A	3266	1/1	0.90	0.21	71,71,71,71	0
57	MG	1a	1687	1/1	0.90	0.19	47,47,47,47	0
57	MG	1A	3130	1/1	0.90	0.15	40,40,40,40	0
57	MG	1B	214	1/1	0.90	0.07	55,55,55,55	0
57	MG	2a	1778	1/1	0.90	0.15	60,60,60,60	0
57	MG	1A	3355	1/1	0.90	0.23	28,28,28,28	0
57	MG	1B	216	1/1	0.90	0.08	60,60,60,60	0
57	MG	2A	3791	1/1	0.90	0.22	66,66,66,66	0
57	MG	2A	3795	1/1	0.90	0.16	49,49,49,49	0
57	MG	2A	3796	1/1	0.90	0.14	69,69,69,69	0
57	MG	2a	1799	1/1	0.90	0.07	63,63,63,63	0
57	MG	2A	3797	1/1	0.90	0.14	54,54,54,54	0
57	MG	2A	3799	1/1	0.90	0.27	74,74,74,74	0
57	MG	1B	218	1/1	0.90	0.15	41,41,41,41	0
57	MG	2a	1807	1/1	0.90	0.21	51,51,51,51	0
57	MG	2a	1808	1/1	0.90	0.07	60,60,60,60	0
57	MG	1A	3474	1/1	0.90	0.19	48,48,48,48	0
57	MG	2A	3510	1/1	0.90	0.24	54,54,54,54	0
57	MG	1A	3983	1/1	0.90	0.09	48,48,48,48	0
57	MG	2a	1817	1/1	0.90	0.13	58,58,58,58	0
57	MG	2A	3806	1/1	0.90	0.16	65,65,65,65	0
57	MG	2A	3276	1/1	0.90	0.35	54,54,54,54	0
57	MG	1A	3002	1/1	0.90	0.12	53,53,53,53	0
57	MG	1A	3559	1/1	0.90	0.13	56,56,56,56	0
57	MG	1A	3222	1/1	0.90	0.19	37,37,37,37	0
57	MG	2A	3055	1/1	0.90	0.07	70,70,70,70	0
57	MG	1A	3772	1/1	0.90	0.15	49,49,49,49	0
57	MG	2A	3282	1/1	0.90	0.16	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3826	1/1	0.90	0.07	67,67,67,67	0
57	MG	1A	3139	1/1	0.90	0.23	30,30,30,30	0
57	MG	1A	3280	1/1	0.90	0.35	53,53,53,53	0
57	MG	2A	3538	1/1	0.90	0.14	34,34,34,34	0
57	MG	1A	3281	1/1	0.90	0.35	54,54,54,54	0
57	MG	2A	3542	1/1	0.90	0.27	51,51,51,51	0
57	MG	2A	3066	1/1	0.90	0.12	68,68,68,68	0
57	MG	2A	3550	1/1	0.90	0.17	26,26,26,26	0
57	MG	2A	3289	1/1	0.90	0.26	65,65,65,65	0
57	MG	2A	3290	1/1	0.90	0.14	57,57,57,57	0
57	MG	2A	3291	1/1	0.90	0.20	67,67,67,67	0
57	MG	2w	107	1/1	0.90	0.12	70,70,70,70	0
57	MG	2B	204	1/1	0.90	0.18	49,49,49,49	0
57	MG	2x	105	1/1	0.90	0.10	58,58,58,58	0
57	MG	2B	205	1/1	0.90	0.11	61,61,61,61	0
57	MG	1A	3490	1/1	0.90	0.17	46,46,46,46	0
57	MG	1A	3909	1/1	0.90	0.10	48,48,48,48	0
60	ZN	2Y	202	1/1	0.90	0.14	87,87,87,87	0
57	MG	2A	3069	1/1	0.90	0.13	46,46,46,46	0
57	MG	2B	211	1/1	0.91	0.16	61,61,61,61	0
57	MG	1S	203	1/1	0.91	0.16	53,53,53,53	0
57	MG	1A	4025	1/1	0.91	0.12	38,38,38,38	0
57	MG	2D	304	1/1	0.91	0.10	74,74,74,74	0
57	MG	2D	308	1/1	0.91	0.10	56,56,56,56	0
57	MG	2E	303	1/1	0.91	0.17	49,49,49,49	0
57	MG	1A	3287	1/1	0.91	0.17	32,32,32,32	0
57	MG	1U	203	1/1	0.91	0.13	47,47,47,47	0
57	MG	2F	302	1/1	0.91	0.23	49,49,49,49	0
57	MG	2A	3103	1/1	0.91	0.18	34,34,34,34	0
57	MG	1A	3518	1/1	0.91	0.16	51,51,51,51	0
57	MG	2A	3106	1/1	0.91	0.24	52,52,52,52	0
57	MG	2A	3107	1/1	0.91	0.12	62,62,62,62	0
57	MG	1A	4034	1/1	0.91	0.11	49,49,49,49	0
57	MG	2G	201	1/1	0.91	0.07	58,58,58,58	0
57	MG	2A	3113	1/1	0.91	0.24	47,47,47,47	0
57	MG	2A	3592	1/1	0.91	0.17	54,54,54,54	0
57	MG	2A	3593	1/1	0.91	0.15	68,68,68,68	0
57	MG	2A	3116	1/1	0.91	0.28	53,53,53,53	0
57	MG	2R	203	1/1	0.91	0.21	48,48,48,48	0
57	MG	1A	3448	1/1	0.91	0.17	36,36,36,36	0
57	MG	1A	3449	1/1	0.91	0.47	46,46,46,46	0
57	MG	1A	3450	1/1	0.91	0.16	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3132	1/1	0.91	0.32	53,53,53,53	0
57	MG	2A	3333	1/1	0.91	0.16	62,62,62,62	0
57	MG	2A	3133	1/1	0.91	0.17	67,67,67,67	0
57	MG	23	102	1/1	0.91	0.15	45,45,45,45	0
57	MG	1Y	201	1/1	0.91	0.25	46,46,46,46	0
57	MG	1A	3835	1/1	0.91	0.09	41,41,41,41	0
57	MG	25	103	1/1	0.91	0.21	50,50,50,50	0
57	MG	2A	3136	1/1	0.91	0.31	37,37,37,37	0
57	MG	1A	4047	1/1	0.91	0.14	42,42,42,42	0
57	MG	1A	3836	1/1	0.91	0.14	29,29,29,29	0
57	MG	2a	1602	1/1	0.91	0.18	59,59,59,59	0
57	MG	2A	3618	1/1	0.91	0.18	64,64,64,64	0
57	MG	2A	3619	1/1	0.91	0.23	36,36,36,36	0
57	MG	2a	1605	1/1	0.91	0.35	65,65,65,65	0
57	MG	1A	3943	1/1	0.91	0.11	55,55,55,55	0
57	MG	1A	3072	1/1	0.91	0.26	37,37,37,37	0
57	MG	1A	3289	1/1	0.91	0.18	53,53,53,53	0
57	MG	2A	3156	1/1	0.91	0.17	41,41,41,41	0
57	MG	2A	3628	1/1	0.91	0.15	63,63,63,63	0
57	MG	2A	3630	1/1	0.91	0.09	63,63,63,63	0
57	MG	2A	3631	1/1	0.91	0.14	57,57,57,57	0
57	MG	1A	4058	1/1	0.91	0.10	43,43,43,43	0
57	MG	1a	1773	1/1	0.91	0.06	49,49,49,49	0
57	MG	10	109	1/1	0.91	0.14	39,39,39,39	0
57	MG	11	103	1/1	0.91	0.09	31,31,31,31	0
57	MG	16	101	1/1	0.91	0.26	54,54,54,54	0
57	MG	1a	1780	1/1	0.91	0.10	58,58,58,58	0
57	MG	2a	1623	1/1	0.91	0.10	59,59,59,59	0
57	MG	1A	4066	1/1	0.91	0.22	53,53,53,53	0
57	MG	1A	3244	1/1	0.91	0.23	39,39,39,39	0
57	MG	1A	3079	1/1	0.91	0.16	29,29,29,29	0
57	MG	2A	3364	1/1	0.91	0.37	43,43,43,43	0
57	MG	1A	3849	1/1	0.91	0.22	30,30,30,30	0
57	MG	2A	3650	1/1	0.91	0.21	51,51,51,51	0
57	MG	2A	3178	1/1	0.91	0.10	64,64,64,64	0
57	MG	1a	1602	1/1	0.91	0.21	54,54,54,54	0
57	MG	1A	3649	1/1	0.91	0.19	64,64,64,64	0
57	MG	2a	1647	1/1	0.91	0.11	64,64,64,64	0
57	MG	2A	3654	1/1	0.91	0.10	48,48,48,48	0
57	MG	2A	3373	1/1	0.91	0.22	54,54,54,54	0
57	MG	1A	3739	1/1	0.91	0.11	51,51,51,51	0
57	MG	1A	3856	1/1	0.91	0.20	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3377	1/1	0.91	0.25	59,59,59,59	0
57	MG	2A	3378	1/1	0.91	0.35	58,58,58,58	0
57	MG	1A	3740	1/1	0.91	0.11	34,34,34,34	0
57	MG	1a	1623	1/1	0.91	0.17	54,54,54,54	0
57	MG	1A	3866	1/1	0.91	0.13	49,49,49,49	0
57	MG	2A	3670	1/1	0.91	0.17	52,52,52,52	0
57	MG	1A	3650	1/1	0.91	0.13	25,25,25,25	0
57	MG	2A	3384	1/1	0.91	0.10	65,65,65,65	0
57	MG	2a	1672	1/1	0.91	0.25	57,57,57,57	0
57	MG	2a	1680	1/1	0.91	0.17	54,54,54,54	0
57	MG	1a	1809	1/1	0.91	0.06	56,56,56,56	0
57	MG	1A	3247	1/1	0.91	0.14	41,41,41,41	0
57	MG	1A	3750	1/1	0.91	0.08	36,36,36,36	0
57	MG	1A	3049	1/1	0.91	0.28	42,42,42,42	0
57	MG	1a	1637	1/1	0.91	0.05	50,50,50,50	0
57	MG	1A	3298	1/1	0.91	0.42	53,53,53,53	0
57	MG	1A	3413	1/1	0.91	0.20	39,39,39,39	0
57	MG	1a	1818	1/1	0.91	0.10	53,53,53,53	0
57	MG	2A	3700	1/1	0.91	0.32	47,47,47,47	0
57	MG	2A	3701	1/1	0.91	0.25	53,53,53,53	0
57	MG	1A	3556	1/1	0.91	0.19	43,43,43,43	0
57	MG	1A	3213	1/1	0.91	0.34	42,42,42,42	0
57	MG	1A	3561	1/1	0.91	0.14	43,43,43,43	0
57	MG	1A	3480	1/1	0.91	0.22	55,55,55,55	0
57	MG	2A	3714	1/1	0.91	0.08	59,59,59,59	0
57	MG	2A	3407	1/1	0.91	0.11	57,57,57,57	0
57	MG	1B	201	1/1	0.91	0.23	51,51,51,51	0
57	MG	1f	202	1/1	0.91	0.11	65,65,65,65	0
57	MG	1a	1650	1/1	0.91	0.09	63,63,63,63	0
57	MG	2A	3212	1/1	0.91	0.17	67,67,67,67	0
57	MG	1A	3142	1/1	0.91	0.12	32,32,32,32	0
57	MG	1A	3308	1/1	0.91	0.12	54,54,54,54	0
57	MG	2A	3418	1/1	0.91	0.26	51,51,51,51	0
57	MG	1A	3891	1/1	0.91	0.21	38,38,38,38	0
57	MG	1A	3895	1/1	0.91	0.12	38,38,38,38	0
57	MG	1A	3424	1/1	0.91	0.14	43,43,43,43	0
57	MG	1A	3773	1/1	0.91	0.11	37,37,37,37	0
57	MG	1A	3083	1/1	0.91	0.19	51,51,51,51	0
57	MG	2A	3432	1/1	0.91	0.15	46,46,46,46	0
57	MG	2A	3433	1/1	0.91	0.23	39,39,39,39	0
57	MG	2A	3230	1/1	0.91	0.26	61,61,61,61	0
57	MG	1A	3314	1/1	0.91	0.14	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3440	1/1	0.91	0.26	50,50,50,50	0
57	MG	1B	221	1/1	0.91	0.20	52,52,52,52	0
57	MG	2a	1731	1/1	0.91	0.09	53,53,53,53	0
57	MG	1a	1671	1/1	0.91	0.09	66,66,66,66	0
57	MG	2A	3446	1/1	0.91	0.13	53,53,53,53	0
57	MG	1x	111	1/1	0.91	0.20	62,62,62,62	0
57	MG	1A	3151	1/1	0.91	0.13	53,53,53,53	0
57	MG	1A	3085	1/1	0.91	0.17	51,51,51,51	0
57	MG	2a	1741	1/1	0.91	0.14	69,69,69,69	0
57	MG	1a	1678	1/1	0.91	0.18	50,50,50,50	0
57	MG	2A	3248	1/1	0.91	0.26	70,70,70,70	0
57	MG	2A	3759	1/1	0.91	0.12	55,55,55,55	0
57	MG	2a	1747	1/1	0.91	0.09	65,65,65,65	0
57	MG	2A	3249	1/1	0.91	0.18	51,51,51,51	0
57	MG	1B	227	1/1	0.91	0.25	37,37,37,37	0
57	MG	1a	1681	1/1	0.91	0.10	58,58,58,58	0
57	MG	1A	3189	1/1	0.91	0.12	43,43,43,43	0
57	MG	2A	3257	1/1	0.91	0.14	47,47,47,47	0
57	MG	2A	3258	1/1	0.91	0.20	51,51,51,51	0
57	MG	2a	1764	1/1	0.91	0.22	49,49,49,49	0
57	MG	1A	3593	1/1	0.91	0.13	35,35,35,35	0
57	MG	2A	3479	1/1	0.91	0.22	41,41,41,41	0
57	MG	2a	1771	1/1	0.91	0.13	57,57,57,57	0
57	MG	2A	3025	1/1	0.91	0.15	56,56,56,56	0
57	MG	1A	3601	1/1	0.91	0.10	48,48,48,48	0
57	MG	1A	3437	1/1	0.91	0.11	44,44,44,44	0
57	MG	1A	3696	1/1	0.91	0.15	63,63,63,63	0
57	MG	2A	3487	1/1	0.91	0.14	38,38,38,38	0
57	MG	1a	1695	1/1	0.91	0.19	49,49,49,49	0
57	MG	1A	3604	1/1	0.91	0.16	20,20,20,20	0
57	MG	1a	1698	1/1	0.91	0.06	55,55,55,55	0
57	MG	1a	1699	1/1	0.91	0.13	30,30,30,30	0
57	MG	2A	3793	1/1	0.91	0.11	61,61,61,61	0
57	MG	1a	1700	1/1	0.91	0.21	38,38,38,38	0
57	MG	1D	312	1/1	0.91	0.11	49,49,49,49	0
57	MG	2a	1805	1/1	0.91	0.24	61,61,61,61	0
57	MG	1D	313	1/1	0.91	0.23	41,41,41,41	0
57	MG	1E	306	1/1	0.91	0.20	53,53,53,53	0
57	MG	2A	3275	1/1	0.91	0.14	57,57,57,57	0
57	MG	2a	1810	1/1	0.91	0.12	57,57,57,57	0
57	MG	2A	3053	1/1	0.91	0.07	50,50,50,50	0
57	MG	1a	1705	1/1	0.91	0.16	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3066	1/1	0.91	0.25	27,27,27,27	0
57	MG	1E	311	1/1	0.91	0.19	20,20,20,20	0
57	MG	2a	1819	1/1	0.91	0.12	67,67,67,67	0
57	MG	2A	3807	1/1	0.91	0.17	50,50,50,50	0
57	MG	1A	3283	1/1	0.91	0.17	49,49,49,49	0
57	MG	2A	3064	1/1	0.91	0.17	43,43,43,43	0
57	MG	1A	4008	1/1	0.91	0.20	21,21,21,21	0
57	MG	2A	3530	1/1	0.91	0.23	54,54,54,54	0
57	MG	1A	4009	1/1	0.91	0.14	30,30,30,30	0
57	MG	2A	3536	1/1	0.91	0.22	64,64,64,64	0
57	MG	2A	3537	1/1	0.91	0.25	59,59,59,59	0
57	MG	1a	1719	1/1	0.91	0.16	55,55,55,55	0
57	MG	1A	3811	1/1	0.91	0.11	51,51,51,51	0
57	MG	1G	202	1/1	0.91	0.17	51,51,51,51	0
57	MG	2q	202	1/1	0.91	0.10	69,69,69,69	0
57	MG	1A	3705	1/1	0.91	0.24	19,19,19,19	0
57	MG	2A	3547	1/1	0.91	0.19	51,51,51,51	0
57	MG	2A	3078	1/1	0.91	0.24	51,51,51,51	0
57	MG	1A	3284	1/1	0.91	0.27	55,55,55,55	0
57	MG	2A	3081	1/1	0.91	0.12	56,56,56,56	0
57	MG	1A	3195	1/1	0.91	0.26	39,39,39,39	0
57	MG	1A	4019	1/1	0.91	0.12	52,52,52,52	0
57	MG	2B	201	1/1	0.91	0.23	66,66,66,66	0
57	MG	2x	101	1/1	0.91	0.08	59,59,59,59	0
57	MG	1A	3237	1/1	0.91	0.26	44,44,44,44	0
57	MG	1O	205	1/1	0.91	0.12	45,45,45,45	0
57	MG	1A	3822	1/1	0.91	0.18	47,47,47,47	0
57	MG	2A	3569	1/1	0.91	0.19	51,51,51,51	0
57	MG	2A	3303	1/1	0.91	0.70	58,58,58,58	0
57	MG	1R	203	1/1	0.91	0.24	44,44,44,44	0
57	MG	1A	3927	1/1	0.91	0.16	43,43,43,43	0
57	MG	2A	3208	1/1	0.92	0.20	58,58,58,58	0
57	MG	2A	3386	1/1	0.92	0.20	34,34,34,34	0
57	MG	1A	3422	1/1	0.92	0.08	52,52,52,52	0
57	MG	2A	3001	1/1	0.92	0.13	54,54,54,54	0
57	MG	1A	3470	1/1	0.92	0.11	54,54,54,54	0
57	MG	2A	3215	1/1	0.92	0.15	43,43,43,43	0
57	MG	1A	3549	1/1	0.92	0.23	39,39,39,39	0
57	MG	2A	3644	1/1	0.92	0.09	49,49,49,49	0
57	MG	21	103	1/1	0.92	0.10	49,49,49,49	0
57	MG	1A	3550	1/1	0.92	0.16	36,36,36,36	0
57	MG	2A	3646	1/1	0.92	0.15	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3423	1/1	0.92	0.38	51,51,51,51	0
57	MG	2A	3224	1/1	0.92	0.22	43,43,43,43	0
57	MG	2A	3395	1/1	0.92	0.23	48,48,48,48	0
57	MG	1A	3110	1/1	0.92	0.34	47,47,47,47	0
57	MG	2A	3398	1/1	0.92	0.24	58,58,58,58	0
57	MG	1A	3380	1/1	0.92	0.16	45,45,45,45	0
57	MG	2A	3401	1/1	0.92	0.14	65,65,65,65	0
57	MG	1A	3898	1/1	0.92	0.14	34,34,34,34	0
57	MG	1A	3899	1/1	0.92	0.23	33,33,33,33	0
57	MG	2A	3231	1/1	0.92	0.18	57,57,57,57	0
57	MG	2a	1607	1/1	0.92	0.11	67,67,67,67	0
57	MG	1A	4005	1/1	0.92	0.16	39,39,39,39	0
57	MG	2A	3028	1/1	0.92	0.13	38,38,38,38	0
57	MG	1F	312	1/1	0.92	0.10	45,45,45,45	0
57	MG	2A	3667	1/1	0.92	0.14	45,45,45,45	0
57	MG	2A	3235	1/1	0.92	0.10	59,59,59,59	0
57	MG	2a	1613	1/1	0.92	0.15	55,55,55,55	0
57	MG	2a	1614	1/1	0.92	0.10	60,60,60,60	0
57	MG	2A	3034	1/1	0.92	0.13	44,44,44,44	0
57	MG	1A	3381	1/1	0.92	0.14	37,37,37,37	0
57	MG	2A	3673	1/1	0.92	0.16	53,53,53,53	0
57	MG	1A	3769	1/1	0.92	0.10	41,41,41,41	0
57	MG	2A	3038	1/1	0.92	0.17	48,48,48,48	0
57	MG	1G	205	1/1	0.92	0.19	57,57,57,57	0
57	MG	1A	3664	1/1	0.92	0.15	27,27,27,27	0
57	MG	1A	3016	1/1	0.92	0.12	41,41,41,41	0
57	MG	2A	3681	1/1	0.92	0.61	68,68,68,68	0
57	MG	2A	3427	1/1	0.92	0.12	59,59,59,59	0
57	MG	2A	3430	1/1	0.92	0.11	58,58,58,58	0
57	MG	2a	1631	1/1	0.92	0.13	65,65,65,65	0
57	MG	2A	3251	1/1	0.92	0.17	50,50,50,50	0
57	MG	2A	3688	1/1	0.92	0.38	42,42,42,42	0
57	MG	2A	3047	1/1	0.92	0.16	47,47,47,47	0
57	MG	1A	3905	1/1	0.92	0.14	24,24,24,24	0
57	MG	2a	1640	1/1	0.92	0.16	63,63,63,63	0
57	MG	2A	3695	1/1	0.92	0.11	59,59,59,59	0
57	MG	2A	3696	1/1	0.92	0.22	70,70,70,70	0
57	MG	2a	1646	1/1	0.92	0.06	65,65,65,65	0
57	MG	2A	3049	1/1	0.92	0.24	43,43,43,43	0
57	MG	1A	3775	1/1	0.92	0.19	35,35,35,35	0
57	MG	1A	3777	1/1	0.92	0.16	56,56,56,56	0
57	MG	2A	3705	1/1	0.92	0.18	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3322	1/1	0.92	0.18	66,66,66,66	0
57	MG	2A	3445	1/1	0.92	0.23	60,60,60,60	0
57	MG	1Q	204	1/1	0.92	0.15	64,64,64,64	0
57	MG	1A	4020	1/1	0.92	0.10	54,54,54,54	0
57	MG	2A	3449	1/1	0.92	0.26	52,52,52,52	0
57	MG	2a	1662	1/1	0.92	0.14	58,58,58,58	0
57	MG	2a	1664	1/1	0.92	0.09	54,54,54,54	0
57	MG	1A	3674	1/1	0.92	0.15	51,51,51,51	0
57	MG	1A	3325	1/1	0.92	0.18	55,55,55,55	0
57	MG	2A	3721	1/1	0.92	0.21	58,58,58,58	0
57	MG	1A	3567	1/1	0.92	0.18	20,20,20,20	0
57	MG	1A	3059	1/1	0.92	0.37	53,53,53,53	0
57	MG	2a	1673	1/1	0.92	0.12	64,64,64,64	0
57	MG	2a	1674	1/1	0.92	0.16	48,48,48,48	0
57	MG	2a	1676	1/1	0.92	0.21	66,66,66,66	0
57	MG	1A	3795	1/1	0.92	0.18	50,50,50,50	0
57	MG	2a	1681	1/1	0.92	0.08	64,64,64,64	0
57	MG	1A	3359	1/1	0.92	0.36	38,38,38,38	0
57	MG	2A	3726	1/1	0.92	0.20	34,34,34,34	0
57	MG	1a	1735	1/1	0.92	0.07	52,52,52,52	0
57	MG	2a	1685	1/1	0.92	0.12	62,62,62,62	0
57	MG	1A	3039	1/1	0.92	0.16	31,31,31,31	0
57	MG	2A	3072	1/1	0.92	0.13	44,44,44,44	0
57	MG	1V	204	1/1	0.92	0.28	49,49,49,49	0
57	MG	1A	3134	1/1	0.92	0.17	33,33,33,33	0
57	MG	1A	3441	1/1	0.92	0.09	68,68,68,68	0
57	MG	1A	4042	1/1	0.92	0.23	40,40,40,40	0
57	MG	1A	3576	1/1	0.92	0.14	32,32,32,32	0
57	MG	1A	4044	1/1	0.92	0.21	44,44,44,44	0
57	MG	2A	3483	1/1	0.92	0.20	42,42,42,42	0
57	MG	1A	3577	1/1	0.92	0.12	38,38,38,38	0
57	MG	1A	3809	1/1	0.92	0.11	47,47,47,47	0
57	MG	1A	3495	1/1	0.92	0.14	47,47,47,47	0
57	MG	1A	3930	1/1	0.92	0.12	52,52,52,52	0
57	MG	1a	1757	1/1	0.92	0.05	59,59,59,59	0
57	MG	2A	3094	1/1	0.92	0.12	53,53,53,53	0
57	MG	1A	3496	1/1	0.92	0.12	57,57,57,57	0
57	MG	2A	3503	1/1	0.92	0.18	59,59,59,59	0
57	MG	1A	4054	1/1	0.92	0.17	51,51,51,51	0
57	MG	2A	3507	1/1	0.92	0.14	38,38,38,38	0
57	MG	1A	3300	1/1	0.92	0.22	36,36,36,36	0
57	MG	1A	3406	1/1	0.92	0.19	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	13	103	1/1	0.92	0.14	37,37,37,37	0
57	MG	1A	3594	1/1	0.92	0.17	23,23,23,23	0
57	MG	1a	1769	1/1	0.92	0.07	61,61,61,61	0
57	MG	1A	4072	1/1	0.92	0.15	34,34,34,34	0
57	MG	1A	3596	1/1	0.92	0.18	21,21,21,21	0
57	MG	2A	3112	1/1	0.92	0.24	61,61,61,61	0
57	MG	1A	3600	1/1	0.92	0.08	52,52,52,52	0
57	MG	2A	3526	1/1	0.92	0.14	36,36,36,36	0
57	MG	1A	3706	1/1	0.92	0.11	29,29,29,29	0
57	MG	1A	3942	1/1	0.92	0.07	34,34,34,34	0
57	MG	1A	3503	1/1	0.92	0.25	46,46,46,46	0
57	MG	2A	3781	1/1	0.92	0.29	39,39,39,39	0
57	MG	2A	3534	1/1	0.92	0.10	52,52,52,52	0
57	MG	2A	3535	1/1	0.92	0.08	53,53,53,53	0
57	MG	1a	1781	1/1	0.92	0.10	58,58,58,58	0
57	MG	2A	3787	1/1	0.92	0.09	59,59,59,59	0
57	MG	1a	1784	1/1	0.92	0.18	61,61,61,61	0
57	MG	1A	3014	1/1	0.92	0.13	37,37,37,37	0
57	MG	2A	3794	1/1	0.92	0.14	64,64,64,64	0
57	MG	1A	3365	1/1	0.92	0.35	35,35,35,35	0
57	MG	1a	1615	1/1	0.92	0.09	54,54,54,54	0
57	MG	1A	3119	1/1	0.92	0.23	47,47,47,47	0
57	MG	1A	3609	1/1	0.92	0.15	28,28,28,28	0
57	MG	2A	3800	1/1	0.92	0.20	46,46,46,46	0
57	MG	2A	3320	1/1	0.92	0.41	53,53,53,53	0
57	MG	1A	3508	1/1	0.92	0.31	44,44,44,44	0
57	MG	1A	3720	1/1	0.92	0.21	44,44,44,44	0
57	MG	2a	1760	1/1	0.92	0.17	54,54,54,54	0
57	MG	2a	1763	1/1	0.92	0.08	49,49,49,49	0
57	MG	1A	4097	1/1	0.92	0.15	57,57,57,57	0
57	MG	1A	3722	1/1	0.92	0.20	14,14,14,14	0
57	MG	2A	3559	1/1	0.92	0.22	56,56,56,56	0
57	MG	1a	1804	1/1	0.92	0.08	54,54,54,54	0
57	MG	1A	3167	1/1	0.92	0.10	59,59,59,59	0
57	MG	1A	4105	1/1	0.92	0.10	60,60,60,60	0
57	MG	2A	3812	1/1	0.92	0.17	58,58,58,58	0
57	MG	1A	3725	1/1	0.92	0.25	21,21,21,21	0
57	MG	2a	1781	1/1	0.92	0.18	58,58,58,58	0
57	MG	2a	1783	1/1	0.92	0.20	63,63,63,63	0
57	MG	1A	3726	1/1	0.92	0.09	31,31,31,31	0
57	MG	2a	1785	1/1	0.92	0.11	64,64,64,64	0
57	MG	2A	3820	1/1	0.92	0.08	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2a	1790	1/1	0.92	0.14	55,55,55,55	0
57	MG	1A	3415	1/1	0.92	0.19	32,32,32,32	0
57	MG	1A	3852	1/1	0.92	0.11	50,50,50,50	0
57	MG	2A	3825	1/1	0.92	0.14	56,56,56,56	0
57	MG	2A	3339	1/1	0.92	0.19	47,47,47,47	0
57	MG	1a	1812	1/1	0.92	0.05	71,71,71,71	0
57	MG	1A	3232	1/1	0.92	0.10	54,54,54,54	0
57	MG	2a	1803	1/1	0.92	0.21	69,69,69,69	0
57	MG	1A	3622	1/1	0.92	0.20	25,25,25,25	0
57	MG	1a	1646	1/1	0.92	0.30	59,59,59,59	0
57	MG	1A	3858	1/1	0.92	0.19	21,21,21,21	0
57	MG	2A	3179	1/1	0.92	0.09	62,62,62,62	0
57	MG	1B	207	1/1	0.92	0.20	50,50,50,50	0
57	MG	1A	3862	1/1	0.92	0.12	48,48,48,48	0
57	MG	1A	3732	1/1	0.92	0.24	23,23,23,23	0
57	MG	2A	3184	1/1	0.92	0.33	52,52,52,52	0
57	MG	1A	3865	1/1	0.92	0.23	50,50,50,50	0
57	MG	1e	201	1/1	0.92	0.20	63,63,63,63	0
57	MG	2A	3355	1/1	0.92	0.13	63,63,63,63	0
57	MG	2a	1824	1/1	0.92	0.28	65,65,65,65	0
57	MG	2a	1825	1/1	0.92	0.09	69,69,69,69	0
57	MG	2A	3356	1/1	0.92	0.10	58,58,58,58	0
57	MG	2B	207	1/1	0.92	0.15	50,50,50,50	0
57	MG	1A	3521	1/1	0.92	0.14	33,33,33,33	0
57	MG	1A	3522	1/1	0.92	0.21	41,41,41,41	0
57	MG	1A	3979	1/1	0.92	0.12	43,43,43,43	0
57	MG	1A	3456	1/1	0.92	0.11	44,44,44,44	0
57	MG	2B	212	1/1	0.92	0.12	64,64,64,64	0
57	MG	2A	3366	1/1	0.92	0.27	37,37,37,37	0
57	MG	2B	216	1/1	0.92	0.12	53,53,53,53	0
57	MG	2A	3613	1/1	0.92	0.23	41,41,41,41	0
57	MG	1t	201	1/1	0.92	0.11	51,51,51,51	0
57	MG	1A	3342	1/1	0.92	0.46	47,47,47,47	0
57	MG	2D	309	1/1	0.92	0.14	46,46,46,46	0
57	MG	2E	301	1/1	0.92	0.09	59,59,59,59	0
57	MG	1A	3107	1/1	0.92	0.32	39,39,39,39	0
57	MG	1A	3530	1/1	0.92	0.19	29,29,29,29	0
57	MG	1B	225	1/1	0.92	0.13	43,43,43,43	0
57	MG	1A	3880	1/1	0.92	0.20	39,39,39,39	0
57	MG	1A	3988	1/1	0.92	0.09	70,70,70,70	0
57	MG	1a	1679	1/1	0.92	0.12	53,53,53,53	0
57	MG	1A	3989	1/1	0.92	0.12	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1x	107	1/1	0.92	0.10	63,63,63,63	0
57	MG	2A	3627	1/1	0.92	0.19	43,43,43,43	0
57	MG	1A	3464	1/1	0.92	0.18	54,54,54,54	0
57	MG	2A	3204	1/1	0.92	0.19	44,44,44,44	0
57	MG	1A	3421	1/1	0.92	0.15	40,40,40,40	0
57	MG	1A	3467	1/1	0.92	0.17	25,25,25,25	0
63	FME	2x	108	10/11	0.92	0.21	36,41,46,49	0
57	MG	1A	3915	1/1	0.93	0.15	46,46,46,46	0
57	MG	2A	3431	1/1	0.93	0.15	35,35,35,35	0
57	MG	1A	3264	1/1	0.93	0.14	37,37,37,37	0
57	MG	1A	3349	1/1	0.93	0.15	35,35,35,35	0
57	MG	1a	1701	1/1	0.93	0.09	38,38,38,38	0
57	MG	2A	3036	1/1	0.93	0.37	57,57,57,57	0
57	MG	2A	3439	1/1	0.93	0.11	60,60,60,60	0
57	MG	1G	201	1/1	0.93	0.20	36,36,36,36	0
57	MG	2A	3686	1/1	0.93	0.19	36,36,36,36	0
57	MG	2A	3441	1/1	0.93	0.14	58,58,58,58	0
57	MG	1A	3405	1/1	0.93	0.44	49,49,49,49	0
57	MG	1A	3920	1/1	0.93	0.15	47,47,47,47	0
57	MG	1G	204	1/1	0.93	0.12	65,65,65,65	0
57	MG	1A	3220	1/1	0.93	0.30	37,37,37,37	0
57	MG	1a	1708	1/1	0.93	0.13	35,35,35,35	0
57	MG	1A	3524	1/1	0.93	0.19	35,35,35,35	0
57	MG	1N	202	1/1	0.93	0.21	43,43,43,43	0
57	MG	1A	3267	1/1	0.93	0.30	31,31,31,31	0
57	MG	2a	1627	1/1	0.93	0.23	47,47,47,47	0
57	MG	1a	1713	1/1	0.93	0.08	53,53,53,53	0
57	MG	1A	3460	1/1	0.93	0.14	40,40,40,40	0
57	MG	1A	3305	1/1	0.93	0.29	51,51,51,51	0
57	MG	1A	4036	1/1	0.93	0.18	30,30,30,30	0
57	MG	2A	3465	1/1	0.93	0.14	32,32,32,32	0
57	MG	1A	3463	1/1	0.93	0.28	44,44,44,44	0
57	MG	1A	3624	1/1	0.93	0.13	23,23,23,23	0
57	MG	1Q	205	1/1	0.93	0.13	53,53,53,53	0
57	MG	1A	3932	1/1	0.93	0.19	45,45,45,45	0
57	MG	1A	3357	1/1	0.93	0.16	31,31,31,31	0
57	MG	2A	3477	1/1	0.93	0.18	56,56,56,56	0
57	MG	1R	206	1/1	0.93	0.31	41,41,41,41	0
57	MG	1A	3721	1/1	0.93	0.26	40,40,40,40	0
57	MG	1a	1730	1/1	0.93	0.11	56,56,56,56	0
57	MG	1A	3937	1/1	0.93	0.12	62,62,62,62	0
57	MG	1A	3270	1/1	0.93	0.10	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3414	1/1	0.93	0.19	42,42,42,42	0
57	MG	2a	1657	1/1	0.93	0.17	41,41,41,41	0
57	MG	1A	3120	1/1	0.93	0.21	38,38,38,38	0
57	MG	1a	1737	1/1	0.93	0.13	61,61,61,61	0
57	MG	1A	3311	1/1	0.93	0.33	41,41,41,41	0
57	MG	2A	3736	1/1	0.93	0.11	73,73,73,73	0
57	MG	1A	3182	1/1	0.93	0.12	51,51,51,51	0
57	MG	2A	3497	1/1	0.93	0.15	36,36,36,36	0
57	MG	1A	3637	1/1	0.93	0.09	18,18,18,18	0
57	MG	2a	1668	1/1	0.93	0.18	52,52,52,52	0
57	MG	2a	1669	1/1	0.93	0.13	58,58,58,58	0
57	MG	2A	3740	1/1	0.93	0.14	44,44,44,44	0
57	MG	2A	3086	1/1	0.93	0.17	42,42,42,42	0
57	MG	1A	4056	1/1	0.93	0.21	45,45,45,45	0
57	MG	1a	1742	1/1	0.93	0.10	53,53,53,53	0
57	MG	2A	3089	1/1	0.93	0.09	69,69,69,69	0
57	MG	2A	3508	1/1	0.93	0.15	34,34,34,34	0
57	MG	2a	1677	1/1	0.93	0.13	60,60,60,60	0
57	MG	1A	4057	1/1	0.93	0.16	59,59,59,59	0
57	MG	1X	106	1/1	0.93	0.19	34,34,34,34	0
57	MG	1A	3945	1/1	0.93	0.14	57,57,57,57	0
57	MG	1A	4064	1/1	0.93	0.15	25,25,25,25	0
57	MG	1A	3640	1/1	0.93	0.17	21,21,21,21	0
57	MG	1Z	303	1/1	0.93	0.27	44,44,44,44	0
57	MG	1A	3642	1/1	0.93	0.21	46,46,46,46	0
57	MG	2A	3520	1/1	0.93	0.16	30,30,30,30	0
57	MG	1a	1759	1/1	0.93	0.13	73,73,73,73	0
57	MG	1A	3185	1/1	0.93	0.21	46,46,46,46	0
57	MG	2A	3523	1/1	0.93	0.19	47,47,47,47	0
57	MG	2A	3105	1/1	0.93	0.14	46,46,46,46	0
57	MG	2A	3527	1/1	0.93	0.13	53,53,53,53	0
57	MG	2A	3771	1/1	0.93	0.17	60,60,60,60	0
57	MG	1A	3137	1/1	0.93	0.34	37,37,37,37	0
57	MG	2a	1696	1/1	0.93	0.13	57,57,57,57	0
57	MG	2A	3529	1/1	0.93	0.16	51,51,51,51	0
57	MG	1A	3157	1/1	0.93	0.15	52,52,52,52	0
57	MG	1A	4080	1/1	0.93	0.17	33,33,33,33	0
57	MG	1A	3857	1/1	0.93	0.17	30,30,30,30	0
57	MG	1A	3138	1/1	0.93	0.17	32,32,32,32	0
57	MG	11	105	1/1	0.93	0.19	47,47,47,47	0
57	MG	1A	3859	1/1	0.93	0.24	63,63,63,63	0
57	MG	2a	1708	1/1	0.93	0.30	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	15	107	1/1	0.93	0.08	53,53,53,53	0
57	MG	2A	3784	1/1	0.93	0.14	39,39,39,39	0
57	MG	2A	3120	1/1	0.93	0.18	61,61,61,61	0
57	MG	2A	3121	1/1	0.93	0.11	60,60,60,60	0
57	MG	1A	4087	1/1	0.93	0.13	50,50,50,50	0
57	MG	2A	3128	1/1	0.93	0.14	59,59,59,59	0
57	MG	2a	1720	1/1	0.93	0.10	67,67,67,67	0
57	MG	2A	3549	1/1	0.93	0.20	57,57,57,57	0
57	MG	2A	3130	1/1	0.93	0.13	54,54,54,54	0
57	MG	17	101	1/1	0.93	0.12	31,31,31,31	0
57	MG	1A	3324	1/1	0.93	0.12	49,49,49,49	0
57	MG	1A	3560	1/1	0.93	0.20	58,58,58,58	0
57	MG	1A	3743	1/1	0.93	0.14	25,25,25,25	0
57	MG	19	101	1/1	0.93	0.18	45,45,45,45	0
57	MG	1A	3373	1/1	0.93	0.11	46,46,46,46	0
57	MG	1A	3374	1/1	0.93	0.17	42,42,42,42	0
57	MG	1A	3564	1/1	0.93	0.54	36,36,36,36	0
57	MG	1A	4098	1/1	0.93	0.18	40,40,40,40	0
57	MG	1A	4099	1/1	0.93	0.11	44,44,44,44	0
57	MG	1a	1795	1/1	0.93	0.11	43,43,43,43	0
57	MG	2A	3157	1/1	0.93	0.13	37,37,37,37	0
57	MG	2a	1736	1/1	0.93	0.17	56,56,56,56	0
57	MG	2a	1738	1/1	0.93	0.11	63,63,63,63	0
57	MG	1a	1609	1/1	0.93	0.12	42,42,42,42	0
57	MG	2A	3344	1/1	0.93	0.26	65,65,65,65	0
57	MG	1A	3566	1/1	0.93	0.13	43,43,43,43	0
57	MG	2A	3817	1/1	0.93	0.18	51,51,51,51	0
57	MG	1a	1618	1/1	0.93	0.14	37,37,37,37	0
57	MG	1A	3755	1/1	0.93	0.13	53,53,53,53	0
57	MG	1a	1803	1/1	0.93	0.04	54,54,54,54	0
57	MG	1A	3659	1/1	0.93	0.06	38,38,38,38	0
57	MG	1A	3045	1/1	0.93	0.14	30,30,30,30	0
57	MG	1A	3113	1/1	0.93	0.23	41,41,41,41	0
57	MG	2A	3828	1/1	0.93	0.10	62,62,62,62	0
57	MG	2A	3588	1/1	0.93	0.18	41,41,41,41	0
57	MG	1A	3882	1/1	0.93	0.14	51,51,51,51	0
57	MG	2a	1762	1/1	0.93	0.22	46,46,46,46	0
57	MG	1A	3665	1/1	0.93	0.12	28,28,28,28	0
57	MG	1A	4115	1/1	0.93	0.13	45,45,45,45	0
57	MG	2A	3596	1/1	0.93	0.07	55,55,55,55	0
57	MG	1a	1636	1/1	0.93	0.13	48,48,48,48	0
57	MG	1A	4117	1/1	0.93	0.12	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3603	1/1	0.93	0.14	28,28,28,28	0
57	MG	2a	1774	1/1	0.93	0.22	61,61,61,61	0
57	MG	1A	3667	1/1	0.93	0.12	44,44,44,44	0
57	MG	1A	3885	1/1	0.93	0.09	39,39,39,39	0
57	MG	1A	3240	1/1	0.93	0.12	44,44,44,44	0
57	MG	1A	3670	1/1	0.93	0.16	39,39,39,39	0
57	MG	2A	3609	1/1	0.93	0.10	47,47,47,47	0
57	MG	1A	3570	1/1	0.93	0.18	26,26,26,26	0
57	MG	1A	3436	1/1	0.93	0.12	48,48,48,48	0
57	MG	2A	3188	1/1	0.93	0.18	70,70,70,70	0
57	MG	2a	1789	1/1	0.93	0.28	69,69,69,69	0
57	MG	1A	3199	1/1	0.93	0.19	45,45,45,45	0
57	MG	2a	1791	1/1	0.93	0.17	56,56,56,56	0
57	MG	1A	3019	1/1	0.93	0.14	46,46,46,46	0
57	MG	1a	1649	1/1	0.93	0.12	47,47,47,47	0
57	MG	2a	1796	1/1	0.93	0.14	66,66,66,66	0
57	MG	1A	3681	1/1	0.93	0.18	42,42,42,42	0
57	MG	1A	3897	1/1	0.93	0.13	34,34,34,34	0
57	MG	2B	215	1/1	0.93	0.13	63,63,63,63	0
57	MG	1A	3994	1/1	0.93	0.17	22,22,22,22	0
57	MG	1A	3245	1/1	0.93	0.34	50,50,50,50	0
57	MG	2D	302	1/1	0.93	0.28	50,50,50,50	0
57	MG	2A	3381	1/1	0.93	0.10	61,61,61,61	0
57	MG	1A	3023	1/1	0.93	0.18	45,45,45,45	0
57	MG	1A	3997	1/1	0.93	0.08	43,43,43,43	0
57	MG	1A	3383	1/1	0.93	0.12	37,37,37,37	0
57	MG	1A	3210	1/1	0.93	0.12	47,47,47,47	0
57	MG	1B	228	1/1	0.93	0.18	32,32,32,32	0
57	MG	2a	1815	1/1	0.93	0.19	62,62,62,62	0
57	MG	2a	1816	1/1	0.93	0.11	65,65,65,65	0
57	MG	1a	1667	1/1	0.93	0.14	66,66,66,66	0
57	MG	1a	1668	1/1	0.93	0.08	68,68,68,68	0
57	MG	1A	3006	1/1	0.93	0.12	32,32,32,32	0
57	MG	1A	3793	1/1	0.93	0.25	36,36,36,36	0
57	MG	2a	1823	1/1	0.93	0.16	48,48,48,48	0
57	MG	1A	3296	1/1	0.93	0.28	48,48,48,48	0
57	MG	1A	3446	1/1	0.93	0.20	48,48,48,48	0
57	MG	2A	3209	1/1	0.93	0.16	60,60,60,60	0
57	MG	1B	234	1/1	0.93	0.17	66,66,66,66	0
57	MG	1A	3693	1/1	0.93	0.11	42,42,42,42	0
57	MG	2P	201	1/1	0.93	0.12	56,56,56,56	0
57	MG	1A	3510	1/1	0.93	0.24	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3597	1/1	0.93	0.12	54,54,54,54	0
57	MG	2A	3216	1/1	0.93	0.28	51,51,51,51	0
57	MG	2A	3400	1/1	0.93	0.42	50,50,50,50	0
57	MG	1a	1682	1/1	0.93	0.15	52,52,52,52	0
57	MG	2A	3005	1/1	0.93	0.26	45,45,45,45	0
57	MG	1A	3146	1/1	0.93	0.09	58,58,58,58	0
57	MG	2r	101	1/1	0.93	0.13	64,64,64,64	0
57	MG	2A	3007	1/1	0.93	0.15	38,38,38,38	0
57	MG	2A	3010	1/1	0.93	0.20	45,45,45,45	0
57	MG	20	101	1/1	0.93	0.14	57,57,57,57	0
57	MG	1A	3803	1/1	0.93	0.11	44,44,44,44	0
57	MG	21	102	1/1	0.93	0.27	49,49,49,49	0
57	MG	2A	3012	1/1	0.93	0.25	45,45,45,45	0
57	MG	1A	3345	1/1	0.93	0.17	35,35,35,35	0
57	MG	1A	3698	1/1	0.93	0.19	47,47,47,47	0
57	MG	1A	3914	1/1	0.93	0.18	50,50,50,50	0
57	MG	2A	3024	1/1	0.93	0.21	44,44,44,44	0
57	MG	1a	1693	1/1	0.93	0.23	58,58,58,58	0
57	MG	1E	313	1/1	0.93	0.11	36,36,36,36	0
57	MG	1A	4017	1/1	0.93	0.09	63,63,63,63	0
57	MG	2A	3239	1/1	0.93	0.07	60,60,60,60	0
58	K	2A	3402	1/1	0.93	0.13	49,49,49,49	0
60	ZN	14	102	1/1	0.93	0.08	79,79,79,79	0
57	MG	2A	3426	1/1	0.93	0.13	41,41,41,41	0
57	MG	2A	3672	1/1	0.93	0.13	62,62,62,62	0
60	ZN	2n	501	1/1	0.93	0.06	83,83,83,83	0
57	MG	2A	3243	1/1	0.93	0.16	50,50,50,50	0
57	MG	1A	3294	1/1	0.94	0.15	35,35,35,35	0
57	MG	2A	3169	1/1	0.94	0.28	51,51,51,51	0
57	MG	1A	3525	1/1	0.94	0.27	27,27,27,27	0
57	MG	1A	3620	1/1	0.94	0.14	46,46,46,46	0
57	MG	2A	3173	1/1	0.94	0.14	32,32,32,32	0
57	MG	2A	3376	1/1	0.94	0.23	58,58,58,58	0
57	MG	1A	3710	1/1	0.94	0.14	57,57,57,57	0
57	MG	1A	4013	1/1	0.94	0.20	24,24,24,24	0
57	MG	1A	3394	1/1	0.94	0.09	31,31,31,31	0
57	MG	1A	3819	1/1	0.94	0.16	18,18,18,18	0
57	MG	1A	3452	1/1	0.94	0.14	49,49,49,49	0
57	MG	2A	3181	1/1	0.94	0.14	64,64,64,64	0
57	MG	27	102	1/1	0.94	0.15	53,53,53,53	0
57	MG	1B	233	1/1	0.94	0.19	45,45,45,45	0
57	MG	1A	3626	1/1	0.94	0.12	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3529	1/1	0.94	0.15	54,54,54,54	0
57	MG	1A	3826	1/1	0.94	0.11	51,51,51,51	0
57	MG	1a	1821	1/1	0.94	0.11	62,62,62,62	0
57	MG	1A	3159	1/1	0.94	0.12	31,31,31,31	0
57	MG	1A	3344	1/1	0.94	0.22	27,27,27,27	0
57	MG	1A	3926	1/1	0.94	0.12	48,48,48,48	0
57	MG	1E	309	1/1	0.94	0.25	59,59,59,59	0
57	MG	1a	1660	1/1	0.94	0.12	54,54,54,54	0
57	MG	1A	3630	1/1	0.94	0.12	27,27,27,27	0
57	MG	1A	4028	1/1	0.94	0.20	27,27,27,27	0
57	MG	1l	201	1/1	0.94	0.10	68,68,68,68	0
57	MG	1A	3928	1/1	0.94	0.17	23,23,23,23	0
57	MG	1A	3834	1/1	0.94	0.20	27,27,27,27	0
57	MG	1w	102	1/1	0.94	0.37	75,75,75,75	0
57	MG	1E	314	1/1	0.94	0.15	55,55,55,55	0
57	MG	1a	1669	1/1	0.94	0.11	48,48,48,48	0
57	MG	2A	3666	1/1	0.94	0.14	53,53,53,53	0
57	MG	1A	3200	1/1	0.94	0.22	39,39,39,39	0
57	MG	1F	304	1/1	0.94	0.18	29,29,29,29	0
57	MG	1F	308	1/1	0.94	0.13	38,38,38,38	0
57	MG	2A	3410	1/1	0.94	0.21	44,44,44,44	0
57	MG	1A	3402	1/1	0.94	0.15	45,45,45,45	0
57	MG	1x	104	1/1	0.94	0.11	58,58,58,58	0
57	MG	1a	1676	1/1	0.94	0.18	49,49,49,49	0
57	MG	1a	1677	1/1	0.94	0.13	46,46,46,46	0
57	MG	1A	4037	1/1	0.94	0.13	45,45,45,45	0
57	MG	1A	3403	1/1	0.94	0.16	34,34,34,34	0
57	MG	2A	3211	1/1	0.94	0.45	37,37,37,37	0
57	MG	1A	3844	1/1	0.94	0.16	27,27,27,27	0
57	MG	1A	4040	1/1	0.94	0.13	24,24,24,24	0
57	MG	2a	1638	1/1	0.94	0.12	52,52,52,52	0
57	MG	2a	1639	1/1	0.94	0.11	63,63,63,63	0
57	MG	1x	113	1/1	0.94	0.19	55,55,55,55	0
57	MG	2A	3685	1/1	0.94	0.11	52,52,52,52	0
57	MG	1A	3204	1/1	0.94	0.18	36,36,36,36	0
57	MG	2a	1645	1/1	0.94	0.07	63,63,63,63	0
57	MG	2A	3425	1/1	0.94	0.17	59,59,59,59	0
57	MG	2A	3218	1/1	0.94	0.41	49,49,49,49	0
57	MG	2A	3220	1/1	0.94	0.30	49,49,49,49	0
57	MG	2A	3428	1/1	0.94	0.14	66,66,66,66	0
57	MG	1A	3251	1/1	0.94	0.22	41,41,41,41	0
57	MG	2A	3004	1/1	0.94	0.14	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3699	1/1	0.94	0.19	39,39,39,39	0
57	MG	1a	1684	1/1	0.94	0.10	58,58,58,58	0
57	MG	1A	3299	1/1	0.94	0.20	49,49,49,49	0
57	MG	2A	3702	1/1	0.94	0.08	58,58,58,58	0
57	MG	1A	3848	1/1	0.94	0.20	24,24,24,24	0
57	MG	2A	3436	1/1	0.94	0.17	50,50,50,50	0
57	MG	2A	3226	1/1	0.94	0.21	47,47,47,47	0
57	MG	1N	201	1/1	0.94	0.13	39,39,39,39	0
57	MG	2A	3712	1/1	0.94	0.12	47,47,47,47	0
57	MG	1A	3077	1/1	0.94	0.25	27,27,27,27	0
57	MG	2A	3229	1/1	0.94	0.27	48,48,48,48	0
57	MG	2A	3715	1/1	0.94	0.10	32,32,32,32	0
57	MG	1N	203	1/1	0.94	0.21	28,28,28,28	0
57	MG	1N	204	1/1	0.94	0.18	43,43,43,43	0
57	MG	2A	3016	1/1	0.94	0.21	39,39,39,39	0
57	MG	1A	3302	1/1	0.94	0.12	47,47,47,47	0
57	MG	1O	202	1/1	0.94	0.41	49,49,49,49	0
57	MG	2A	3019	1/1	0.94	0.22	50,50,50,50	0
57	MG	2A	3237	1/1	0.94	0.34	66,66,66,66	0
57	MG	2A	3451	1/1	0.94	0.19	35,35,35,35	0
57	MG	1A	3078	1/1	0.94	0.31	36,36,36,36	0
57	MG	1A	3944	1/1	0.94	0.13	55,55,55,55	0
57	MG	2A	3242	1/1	0.94	0.17	56,56,56,56	0
57	MG	1A	3854	1/1	0.94	0.21	26,26,26,26	0
57	MG	1A	3265	1/1	0.94	0.30	52,52,52,52	0
57	MG	2A	3733	1/1	0.94	0.19	68,68,68,68	0
57	MG	1A	3948	1/1	0.94	0.21	22,22,22,22	0
57	MG	1A	3558	1/1	0.94	0.36	51,51,51,51	0
57	MG	1R	202	1/1	0.94	0.18	39,39,39,39	0
57	MG	1A	3473	1/1	0.94	0.19	45,45,45,45	0
57	MG	1A	4062	1/1	0.94	0.12	30,30,30,30	0
57	MG	1A	3017	1/1	0.94	0.19	26,26,26,26	0
57	MG	1A	3168	1/1	0.94	0.21	28,28,28,28	0
57	MG	2A	3478	1/1	0.94	0.16	41,41,41,41	0
57	MG	2A	3743	1/1	0.94	0.10	66,66,66,66	0
57	MG	2a	1698	1/1	0.94	0.07	64,64,64,64	0
57	MG	2a	1699	1/1	0.94	0.07	67,67,67,67	0
57	MG	1A	3655	1/1	0.94	0.15	26,26,26,26	0
57	MG	1A	3744	1/1	0.94	0.11	42,42,42,42	0
57	MG	2a	1702	1/1	0.94	0.18	44,44,44,44	0
57	MG	2a	1703	1/1	0.94	0.27	57,57,57,57	0
57	MG	2A	3041	1/1	0.94	0.22	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3044	1/1	0.94	0.28	58,58,58,58	0
57	MG	2A	3748	1/1	0.94	0.19	32,32,32,32	0
57	MG	2A	3260	1/1	0.94	0.16	62,62,62,62	0
57	MG	1A	3418	1/1	0.94	0.19	35,35,35,35	0
57	MG	2A	3752	1/1	0.94	0.23	45,45,45,45	0
57	MG	2A	3046	1/1	0.94	0.26	66,66,66,66	0
57	MG	1a	1718	1/1	0.94	0.12	42,42,42,42	0
57	MG	2A	3489	1/1	0.94	0.20	47,47,47,47	0
57	MG	2A	3492	1/1	0.94	0.28	49,49,49,49	0
57	MG	2A	3760	1/1	0.94	0.12	60,60,60,60	0
57	MG	2a	1719	1/1	0.94	0.19	62,62,62,62	0
57	MG	1A	4078	1/1	0.94	0.09	50,50,50,50	0
57	MG	1A	3563	1/1	0.94	0.19	42,42,42,42	0
57	MG	1A	3169	1/1	0.94	0.11	40,40,40,40	0
57	MG	1A	3870	1/1	0.94	0.15	52,52,52,52	0
57	MG	1A	3565	1/1	0.94	0.06	57,57,57,57	0
57	MG	2A	3500	1/1	0.94	0.26	59,59,59,59	0
57	MG	2A	3501	1/1	0.94	0.14	52,52,52,52	0
57	MG	1A	3481	1/1	0.94	0.18	56,56,56,56	0
57	MG	2A	3772	1/1	0.94	0.15	62,62,62,62	0
57	MG	1X	105	1/1	0.94	0.14	37,37,37,37	0
57	MG	2a	1730	1/1	0.94	0.11	65,65,65,65	0
57	MG	1A	3876	1/1	0.94	0.18	27,27,27,27	0
57	MG	2A	3058	1/1	0.94	0.21	51,51,51,51	0
57	MG	2A	3509	1/1	0.94	0.17	56,56,56,56	0
57	MG	1A	3217	1/1	0.94	0.15	23,23,23,23	0
57	MG	2A	3060	1/1	0.94	0.17	40,40,40,40	0
57	MG	2A	3780	1/1	0.94	0.12	34,34,34,34	0
57	MG	2A	3063	1/1	0.94	0.25	44,44,44,44	0
57	MG	1A	3757	1/1	0.94	0.10	39,39,39,39	0
57	MG	2a	1740	1/1	0.94	0.08	59,59,59,59	0
57	MG	2A	3515	1/1	0.94	0.14	36,36,36,36	0
57	MG	1A	3025	1/1	0.94	0.16	51,51,51,51	0
57	MG	1A	3046	1/1	0.94	0.16	10,10,10,10	0
57	MG	1A	3116	1/1	0.94	0.26	27,27,27,27	0
57	MG	2A	3789	1/1	0.94	0.07	60,60,60,60	0
57	MG	1A	4096	1/1	0.94	0.16	58,58,58,58	0
57	MG	2A	3283	1/1	0.94	0.16	53,53,53,53	0
57	MG	10	104	1/1	0.94	0.22	37,37,37,37	0
57	MG	1A	3671	1/1	0.94	0.18	27,27,27,27	0
57	MG	2A	3524	1/1	0.94	0.17	53,53,53,53	0
57	MG	2A	3075	1/1	0.94	0.20	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3978	1/1	0.94	0.17	28,28,28,28	0
57	MG	2a	1761	1/1	0.94	0.19	60,60,60,60	0
57	MG	1A	3321	1/1	0.94	0.20	47,47,47,47	0
57	MG	1A	3061	1/1	0.94	0.25	33,33,33,33	0
57	MG	2A	3802	1/1	0.94	0.12	59,59,59,59	0
57	MG	2a	1765	1/1	0.94	0.10	63,63,63,63	0
57	MG	1A	4103	1/1	0.94	0.10	50,50,50,50	0
57	MG	2a	1768	1/1	0.94	0.10	67,67,67,67	0
57	MG	1A	3062	1/1	0.94	0.26	46,46,46,46	0
57	MG	2A	3533	1/1	0.94	0.11	54,54,54,54	0
57	MG	1a	1745	1/1	0.94	0.08	55,55,55,55	0
57	MG	1a	1746	1/1	0.94	0.06	64,64,64,64	0
57	MG	1a	1747	1/1	0.94	0.14	40,40,40,40	0
57	MG	1a	1748	1/1	0.94	0.11	57,57,57,57	0
57	MG	12	102	1/1	0.94	0.24	42,42,42,42	0
57	MG	2A	3539	1/1	0.94	0.12	59,59,59,59	0
57	MG	2A	3814	1/1	0.94	0.18	53,53,53,53	0
57	MG	1A	3052	1/1	0.94	0.23	33,33,33,33	0
57	MG	2A	3541	1/1	0.94	0.23	55,55,55,55	0
57	MG	2A	3818	1/1	0.94	0.14	72,72,72,72	0
57	MG	14	101	1/1	0.94	0.14	68,68,68,68	0
57	MG	15	106	1/1	0.94	0.25	43,43,43,43	0
57	MG	1A	3069	1/1	0.94	0.20	43,43,43,43	0
57	MG	2A	3548	1/1	0.94	0.20	60,60,60,60	0
57	MG	1A	4108	1/1	0.94	0.18	53,53,53,53	0
57	MG	1a	1758	1/1	0.94	0.12	42,42,42,42	0
57	MG	2a	1797	1/1	0.94	0.17	57,57,57,57	0
57	MG	1A	3682	1/1	0.94	0.22	41,41,41,41	0
57	MG	1a	1760	1/1	0.94	0.07	56,56,56,56	0
57	MG	1a	1761	1/1	0.94	0.05	44,44,44,44	0
57	MG	2A	3832	1/1	0.94	0.13	57,57,57,57	0
57	MG	1A	3433	1/1	0.94	0.18	33,33,33,33	0
57	MG	1A	3377	1/1	0.94	0.20	42,42,42,42	0
57	MG	1A	3435	1/1	0.94	0.10	41,41,41,41	0
57	MG	2A	3837	1/1	0.94	0.11	56,56,56,56	0
57	MG	2A	3562	1/1	0.94	0.14	66,66,66,66	0
57	MG	2A	3839	1/1	0.94	0.17	53,53,53,53	0
57	MG	1A	4116	1/1	0.94	0.25	48,48,48,48	0
57	MG	2A	3108	1/1	0.94	0.23	26,26,26,26	0
57	MG	2A	3568	1/1	0.94	0.16	36,36,36,36	0
57	MG	2A	3109	1/1	0.94	0.15	42,42,42,42	0
57	MG	1A	3187	1/1	0.94	0.20	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2B	203	1/1	0.94	0.11	54,54,54,54	0
57	MG	2A	3325	1/1	0.94	0.09	52,52,52,52	0
57	MG	1A	3328	1/1	0.94	0.13	51,51,51,51	0
57	MG	1a	1603	1/1	0.94	0.14	38,38,38,38	0
57	MG	2A	3114	1/1	0.94	0.15	45,45,45,45	0
57	MG	2A	3332	1/1	0.94	0.19	55,55,55,55	0
57	MG	1a	1770	1/1	0.94	0.06	63,63,63,63	0
57	MG	1a	1771	1/1	0.94	0.08	51,51,51,51	0
57	MG	2A	3118	1/1	0.94	0.17	41,41,41,41	0
57	MG	1A	3188	1/1	0.94	0.23	60,60,60,60	0
57	MG	1A	3055	1/1	0.94	0.25	41,41,41,41	0
57	MG	2f	201	1/1	0.94	0.25	42,42,42,42	0
57	MG	1a	1607	1/1	0.94	0.12	45,45,45,45	0
57	MG	1A	3097	1/1	0.94	0.18	24,24,24,24	0
57	MG	1A	3291	1/1	0.94	0.15	27,27,27,27	0
57	MG	2D	301	1/1	0.94	0.18	34,34,34,34	0
57	MG	1a	1611	1/1	0.94	0.07	59,59,59,59	0
57	MG	1A	3338	1/1	0.94	0.20	40,40,40,40	0
57	MG	2A	3594	1/1	0.94	0.10	44,44,44,44	0
57	MG	1a	1782	1/1	0.94	0.10	45,45,45,45	0
57	MG	1B	211	1/1	0.94	0.11	44,44,44,44	0
57	MG	1A	3074	1/1	0.94	0.21	40,40,40,40	0
57	MG	1a	1620	1/1	0.94	0.08	49,49,49,49	0
57	MG	1a	1622	1/1	0.94	0.15	54,54,54,54	0
57	MG	2A	3350	1/1	0.94	0.12	58,58,58,58	0
57	MG	1A	3132	1/1	0.94	0.12	41,41,41,41	0
57	MG	1A	3387	1/1	0.94	0.18	48,48,48,48	0
57	MG	1a	1625	1/1	0.94	0.17	60,60,60,60	0
57	MG	2x	102	1/1	0.94	0.11	58,58,58,58	0
57	MG	2A	3151	1/1	0.94	0.31	59,59,59,59	0
57	MG	1a	1796	1/1	0.94	0.13	56,56,56,56	0
57	MG	1A	3447	1/1	0.94	0.14	49,49,49,49	0
57	MG	1a	1630	1/1	0.94	0.08	39,39,39,39	0
57	MG	1a	1631	1/1	0.94	0.10	60,60,60,60	0
57	MG	1B	217	1/1	0.94	0.15	45,45,45,45	0
59	A1AEZ	1A	4118	85/85	0.94	0.20	10,28,38,42	0
59	A1AEZ	2A	3843	85/85	0.94	0.23	30,40,54,61	0
57	MG	2A	3363	1/1	0.94	0.23	38,38,38,38	0
57	MG	1A	3702	1/1	0.94	0.14	46,46,46,46	0
57	MG	2A	3164	1/1	0.94	0.13	58,58,58,58	0
60	ZN	29	501	1/1	0.94	0.09	70,70,70,70	0
57	MG	1A	3389	1/1	0.94	0.16	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3704	1/1	0.94	0.06	50,50,50,50	0
57	MG	1A	3091	1/1	0.95	0.09	39,39,39,39	0
57	MG	2A	3416	1/1	0.95	0.13	23,23,23,23	0
57	MG	1A	3933	1/1	0.95	0.10	58,58,58,58	0
57	MG	1A	3259	1/1	0.95	0.19	34,34,34,34	0
57	MG	2A	3665	1/1	0.95	0.18	58,58,58,58	0
57	MG	2A	3217	1/1	0.95	0.17	41,41,41,41	0
57	MG	1A	3060	1/1	0.95	0.27	43,43,43,43	0
57	MG	1A	3162	1/1	0.95	0.11	23,23,23,23	0
57	MG	1A	3827	1/1	0.95	0.18	53,53,53,53	0
57	MG	1A	3095	1/1	0.95	0.45	46,46,46,46	0
57	MG	1R	201	1/1	0.95	0.13	43,43,43,43	0
57	MG	1A	3829	1/1	0.95	0.13	56,56,56,56	0
57	MG	1A	3084	1/1	0.95	0.15	49,49,49,49	0
57	MG	1A	4069	1/1	0.95	0.11	43,43,43,43	0
57	MG	1A	4071	1/1	0.95	0.11	28,28,28,28	0
57	MG	1S	202	1/1	0.95	0.14	49,49,49,49	0
57	MG	2A	3029	1/1	0.95	0.19	25,25,25,25	0
57	MG	2A	3031	1/1	0.95	0.20	49,49,49,49	0
57	MG	2a	1618	1/1	0.95	0.15	58,58,58,58	0
57	MG	2A	3434	1/1	0.95	0.21	42,42,42,42	0
57	MG	1a	1707	1/1	0.95	0.20	48,48,48,48	0
57	MG	1A	3388	1/1	0.95	0.17	54,54,54,54	0
57	MG	1a	1709	1/1	0.95	0.11	40,40,40,40	0
57	MG	1A	3224	1/1	0.95	0.12	47,47,47,47	0
57	MG	1A	3390	1/1	0.95	0.12	45,45,45,45	0
57	MG	1A	4077	1/1	0.95	0.15	51,51,51,51	0
57	MG	1A	3715	1/1	0.95	0.14	35,35,35,35	0
57	MG	2A	3443	1/1	0.95	0.10	56,56,56,56	0
57	MG	1A	3099	1/1	0.95	0.31	31,31,31,31	0
57	MG	2A	3697	1/1	0.95	0.15	48,48,48,48	0
57	MG	2A	3240	1/1	0.95	0.22	44,44,44,44	0
57	MG	1A	3842	1/1	0.95	0.12	30,30,30,30	0
57	MG	2a	1636	1/1	0.95	0.11	56,56,56,56	0
57	MG	2A	3042	1/1	0.95	0.21	45,45,45,45	0
57	MG	1V	206	1/1	0.95	0.20	51,51,51,51	0
57	MG	1W	201	1/1	0.95	0.35	47,47,47,47	0
57	MG	1A	4082	1/1	0.95	0.17	35,35,35,35	0
57	MG	1A	3843	1/1	0.95	0.11	56,56,56,56	0
57	MG	2A	3457	1/1	0.95	0.13	60,60,60,60	0
57	MG	2A	3709	1/1	0.95	0.17	43,43,43,43	0
57	MG	2A	3710	1/1	0.95	0.07	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	4084	1/1	0.95	0.21	45,45,45,45	0
57	MG	2A	3459	1/1	0.95	0.20	46,46,46,46	0
57	MG	1A	3517	1/1	0.95	0.13	26,26,26,26	0
57	MG	2a	1653	1/1	0.95	0.14	65,65,65,65	0
57	MG	1A	3194	1/1	0.95	0.10	49,49,49,49	0
57	MG	2A	3252	1/1	0.95	0.26	58,58,58,58	0
57	MG	2A	3463	1/1	0.95	0.10	42,42,42,42	0
57	MG	1A	3719	1/1	0.95	0.12	60,60,60,60	0
57	MG	1A	3395	1/1	0.95	0.16	40,40,40,40	0
57	MG	2A	3054	1/1	0.95	0.12	42,42,42,42	0
57	MG	2A	3472	1/1	0.95	0.15	25,25,25,25	0
57	MG	1A	3396	1/1	0.95	0.26	42,42,42,42	0
57	MG	2a	1663	1/1	0.95	0.13	55,55,55,55	0
57	MG	1a	1731	1/1	0.95	0.10	43,43,43,43	0
57	MG	1A	3397	1/1	0.95	0.20	40,40,40,40	0
57	MG	2A	3727	1/1	0.95	0.20	37,37,37,37	0
57	MG	1a	1733	1/1	0.95	0.18	43,43,43,43	0
57	MG	1A	3398	1/1	0.95	0.16	60,60,60,60	0
57	MG	2A	3730	1/1	0.95	0.09	61,61,61,61	0
57	MG	1A	3275	1/1	0.95	0.12	19,19,19,19	0
57	MG	1A	3101	1/1	0.95	0.12	33,33,33,33	0
57	MG	1A	3727	1/1	0.95	0.17	22,22,22,22	0
57	MG	1A	3310	1/1	0.95	0.25	44,44,44,44	0
57	MG	1A	3729	1/1	0.95	0.16	25,25,25,25	0
57	MG	1A	3196	1/1	0.95	0.23	36,36,36,36	0
57	MG	2a	1679	1/1	0.95	0.27	58,58,58,58	0
57	MG	11	102	1/1	0.95	0.11	29,29,29,29	0
57	MG	1A	3001	1/1	0.95	0.17	38,38,38,38	0
57	MG	1A	3455	1/1	0.95	0.15	42,42,42,42	0
57	MG	1A	3313	1/1	0.95	0.22	60,60,60,60	0
57	MG	2A	3741	1/1	0.95	0.16	58,58,58,58	0
57	MG	1A	4106	1/1	0.95	0.10	30,30,30,30	0
57	MG	2A	3495	1/1	0.95	0.20	34,34,34,34	0
57	MG	13	104	1/1	0.95	0.19	45,45,45,45	0
57	MG	1A	3457	1/1	0.95	0.17	46,46,46,46	0
57	MG	15	101	1/1	0.95	0.15	25,25,25,25	0
57	MG	15	103	1/1	0.95	0.18	33,33,33,33	0
57	MG	1A	3542	1/1	0.95	0.19	35,35,35,35	0
57	MG	1A	4110	1/1	0.95	0.20	36,36,36,36	0
57	MG	2A	3502	1/1	0.95	0.14	35,35,35,35	0
57	MG	1A	3867	1/1	0.95	0.13	39,39,39,39	0
57	MG	2A	3753	1/1	0.95	0.06	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3543	1/1	0.95	0.16	31,31,31,31	0
57	MG	2A	3506	1/1	0.95	0.19	28,28,28,28	0
57	MG	17	103	1/1	0.95	0.13	33,33,33,33	0
57	MG	1A	3545	1/1	0.95	0.11	27,27,27,27	0
57	MG	2A	3090	1/1	0.95	0.19	48,48,48,48	0
57	MG	1A	3645	1/1	0.95	0.33	59,59,59,59	0
57	MG	18	104	1/1	0.95	0.22	45,45,45,45	0
57	MG	1A	3872	1/1	0.95	0.16	30,30,30,30	0
57	MG	1A	3646	1/1	0.95	0.19	15,15,15,15	0
57	MG	1A	3235	1/1	0.95	0.19	26,26,26,26	0
57	MG	2A	3293	1/1	0.95	0.18	60,60,60,60	0
57	MG	2A	3768	1/1	0.95	0.18	67,67,67,67	0
57	MG	1A	3459	1/1	0.95	0.14	50,50,50,50	0
57	MG	1A	3746	1/1	0.95	0.16	22,22,22,22	0
57	MG	1a	1604	1/1	0.95	0.15	55,55,55,55	0
57	MG	1B	203	1/1	0.95	0.23	46,46,46,46	0
57	MG	1B	204	1/1	0.95	0.29	48,48,48,48	0
57	MG	2A	3301	1/1	0.95	0.38	52,52,52,52	0
57	MG	1B	205	1/1	0.95	0.13	45,45,45,45	0
57	MG	1A	3747	1/1	0.95	0.12	53,53,53,53	0
57	MG	1A	3991	1/1	0.95	0.12	35,35,35,35	0
57	MG	2A	3307	1/1	0.95	0.43	56,56,56,56	0
57	MG	1A	3548	1/1	0.95	0.13	40,40,40,40	0
57	MG	2A	3110	1/1	0.95	0.16	58,58,58,58	0
57	MG	1a	1777	1/1	0.95	0.10	59,59,59,59	0
57	MG	1a	1613	1/1	0.95	0.07	54,54,54,54	0
57	MG	1A	3751	1/1	0.95	0.09	34,34,34,34	0
57	MG	2A	3314	1/1	0.95	0.11	54,54,54,54	0
57	MG	1a	1617	1/1	0.95	0.12	42,42,42,42	0
57	MG	1A	3316	1/1	0.95	0.17	29,29,29,29	0
57	MG	2A	3792	1/1	0.95	0.15	60,60,60,60	0
57	MG	1B	213	1/1	0.95	0.40	65,65,65,65	0
57	MG	1A	3236	1/1	0.95	0.13	31,31,31,31	0
57	MG	1A	3409	1/1	0.95	0.18	39,39,39,39	0
57	MG	1A	3410	1/1	0.95	0.13	32,32,32,32	0
57	MG	1A	3411	1/1	0.95	0.26	52,52,52,52	0
57	MG	2A	3122	1/1	0.95	0.21	42,42,42,42	0
57	MG	2A	3123	1/1	0.95	0.16	39,39,39,39	0
57	MG	1A	3123	1/1	0.95	0.14	35,35,35,35	0
57	MG	1a	1791	1/1	0.95	0.08	59,59,59,59	0
57	MG	2A	3328	1/1	0.95	0.38	64,64,64,64	0
57	MG	2A	3329	1/1	0.95	0.62	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1627	1/1	0.95	0.22	26,26,26,26	0
57	MG	2A	3553	1/1	0.95	0.16	49,49,49,49	0
57	MG	1a	1628	1/1	0.95	0.11	60,60,60,60	0
57	MG	2a	1749	1/1	0.95	0.17	64,64,64,64	0
57	MG	2A	3556	1/1	0.95	0.17	42,42,42,42	0
57	MG	2a	1751	1/1	0.95	0.12	42,42,42,42	0
57	MG	2a	1753	1/1	0.95	0.17	62,62,62,62	0
57	MG	2A	3557	1/1	0.95	0.14	59,59,59,59	0
57	MG	1A	3658	1/1	0.95	0.19	39,39,39,39	0
57	MG	1A	3890	1/1	0.95	0.12	37,37,37,37	0
57	MG	1B	223	1/1	0.95	0.28	41,41,41,41	0
57	MG	2A	3815	1/1	0.95	0.30	63,63,63,63	0
57	MG	1A	3239	1/1	0.95	0.17	66,66,66,66	0
57	MG	1a	1801	1/1	0.95	0.10	57,57,57,57	0
57	MG	2A	3139	1/1	0.95	0.10	41,41,41,41	0
57	MG	2A	3566	1/1	0.95	0.24	42,42,42,42	0
57	MG	2A	3140	1/1	0.95	0.24	50,50,50,50	0
57	MG	2A	3821	1/1	0.95	0.16	54,54,54,54	0
57	MG	1A	3005	1/1	0.95	0.14	43,43,43,43	0
57	MG	2a	1769	1/1	0.95	0.20	50,50,50,50	0
57	MG	2A	3144	1/1	0.95	0.15	46,46,46,46	0
57	MG	2A	3824	1/1	0.95	0.12	59,59,59,59	0
57	MG	1A	3471	1/1	0.95	0.25	51,51,51,51	0
57	MG	1a	1635	1/1	0.95	0.26	56,56,56,56	0
57	MG	1A	3472	1/1	0.95	0.17	61,61,61,61	0
57	MG	2a	1777	1/1	0.95	0.20	58,58,58,58	0
57	MG	2A	3154	1/1	0.95	0.13	70,70,70,70	0
57	MG	1A	3323	1/1	0.95	0.16	39,39,39,39	0
57	MG	1A	3203	1/1	0.95	0.25	45,45,45,45	0
57	MG	2A	3349	1/1	0.95	0.27	43,43,43,43	0
57	MG	1a	1808	1/1	0.95	0.20	56,56,56,56	0
57	MG	1A	3242	1/1	0.95	0.17	53,53,53,53	0
57	MG	1A	3478	1/1	0.95	0.12	45,45,45,45	0
57	MG	2A	3161	1/1	0.95	0.08	53,53,53,53	0
57	MG	2A	3587	1/1	0.95	0.20	39,39,39,39	0
57	MG	1A	3372	1/1	0.95	0.10	44,44,44,44	0
57	MG	1A	3778	1/1	0.95	0.18	58,58,58,58	0
57	MG	2A	3590	1/1	0.95	0.27	68,68,68,68	0
57	MG	2A	3591	1/1	0.95	0.32	51,51,51,51	0
57	MG	1a	1644	1/1	0.95	0.09	41,41,41,41	0
57	MG	1A	3673	1/1	0.95	0.17	50,50,50,50	0
57	MG	1A	4016	1/1	0.95	0.15	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1D	308	1/1	0.95	0.13	33,33,33,33	0
57	MG	2A	3170	1/1	0.95	0.16	45,45,45,45	0
57	MG	2A	3601	1/1	0.95	0.22	53,53,53,53	0
57	MG	1D	310	1/1	0.95	0.10	39,39,39,39	0
57	MG	2A	3365	1/1	0.95	0.36	46,46,46,46	0
57	MG	1D	311	1/1	0.95	0.26	24,24,24,24	0
57	MG	2A	3368	1/1	0.95	0.37	47,47,47,47	0
57	MG	1A	3087	1/1	0.95	0.14	33,33,33,33	0
57	MG	2A	3174	1/1	0.95	0.08	54,54,54,54	0
57	MG	1a	1652	1/1	0.95	0.16	48,48,48,48	0
57	MG	1A	3176	1/1	0.95	0.24	33,33,33,33	0
57	MG	1a	1655	1/1	0.95	0.08	58,58,58,58	0
57	MG	1E	303	1/1	0.95	0.14	29,29,29,29	0
57	MG	1E	305	1/1	0.95	0.11	26,26,26,26	0
57	MG	1A	3179	1/1	0.95	0.14	29,29,29,29	0
57	MG	2D	305	1/1	0.95	0.17	31,31,31,31	0
57	MG	1A	3484	1/1	0.95	0.17	34,34,34,34	0
57	MG	1A	3572	1/1	0.95	0.15	30,30,30,30	0
57	MG	1n	101	1/1	0.95	0.12	39,39,39,39	0
57	MG	1A	4022	1/1	0.95	0.12	16,16,16,16	0
57	MG	1a	1665	1/1	0.95	0.20	41,41,41,41	0
57	MG	1A	3064	1/1	0.95	0.11	51,51,51,51	0
57	MG	1A	3685	1/1	0.95	0.17	19,19,19,19	0
57	MG	1A	3330	1/1	0.95	0.14	51,51,51,51	0
57	MG	2e	201	1/1	0.95	0.07	56,56,56,56	0
57	MG	1A	3489	1/1	0.95	0.21	57,57,57,57	0
57	MG	1A	3425	1/1	0.95	0.08	54,54,54,54	0
57	MG	2g	201	1/1	0.95	0.07	66,66,66,66	0
57	MG	1A	3801	1/1	0.95	0.07	60,60,60,60	0
57	MG	2l	201	1/1	0.95	0.13	61,61,61,61	0
57	MG	1x	102	1/1	0.95	0.23	58,58,58,58	0
57	MG	1A	3426	1/1	0.95	0.17	54,54,54,54	0
57	MG	1A	3331	1/1	0.95	0.14	48,48,48,48	0
57	MG	2q	201	1/1	0.95	0.14	67,67,67,67	0
57	MG	2O	202	1/1	0.95	0.14	54,54,54,54	0
57	MG	1x	105	1/1	0.95	0.25	50,50,50,50	0
57	MG	2Q	201	1/1	0.95	0.10	44,44,44,44	0
57	MG	2A	3635	1/1	0.95	0.11	53,53,53,53	0
57	MG	1a	1674	1/1	0.95	0.28	44,44,44,44	0
57	MG	2w	101	1/1	0.95	0.09	61,61,61,61	0
57	MG	2A	3638	1/1	0.95	0.12	50,50,50,50	0
57	MG	1A	3807	1/1	0.95	0.08	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2T	201	1/1	0.95	0.20	52,52,52,52	0
57	MG	2w	105	1/1	0.95	0.25	55,55,55,55	0
57	MG	1A	3428	1/1	0.95	0.18	54,54,54,54	0
57	MG	1x	109	1/1	0.95	0.13	61,61,61,61	0
57	MG	1A	3588	1/1	0.95	0.13	49,49,49,49	0
57	MG	2V	202	1/1	0.95	0.23	52,52,52,52	0
57	MG	2x	103	1/1	0.95	0.07	62,62,62,62	0
57	MG	2A	3202	1/1	0.95	0.12	58,58,58,58	0
57	MG	2X	101	1/1	0.95	0.29	56,56,56,56	0
57	MG	1A	3082	1/1	0.95	0.15	52,52,52,52	0
57	MG	1A	3592	1/1	0.95	0.11	28,28,28,28	0
57	MG	1A	3334	1/1	0.95	0.12	54,54,54,54	0
57	MG	1A	3335	1/1	0.95	0.32	34,34,34,34	0
57	MG	2A	3406	1/1	0.95	0.36	55,55,55,55	0
57	MG	2A	3207	1/1	0.95	0.13	60,60,60,60	0
57	MG	1A	3595	1/1	0.95	0.11	23,23,23,23	0
57	MG	1A	3929	1/1	0.95	0.09	44,44,44,44	0
57	MG	1A	3700	1/1	0.95	0.10	36,36,36,36	0
57	MG	1A	3498	1/1	0.95	0.29	32,32,32,32	0
57	MG	1A	4051	1/1	0.95	0.14	47,47,47,47	0
62	PHE	2w	108	11/12	0.95	0.23	31,35,38,42	0
57	MG	28	101	1/1	0.95	0.25	45,45,45,45	0
57	MG	1A	3115	1/1	0.96	0.16	28,28,28,28	0
57	MG	2A	3143	1/1	0.96	0.28	44,44,44,44	0
57	MG	1A	4060	1/1	0.96	0.12	18,18,18,18	0
57	MG	1a	1663	1/1	0.96	0.10	49,49,49,49	0
57	MG	1a	1820	1/1	0.96	0.17	54,54,54,54	0
57	MG	1A	3860	1/1	0.96	0.14	35,35,35,35	0
57	MG	2A	3152	1/1	0.96	0.21	44,44,44,44	0
57	MG	2A	3153	1/1	0.96	0.18	33,33,33,33	0
57	MG	1A	4063	1/1	0.96	0.20	16,16,16,16	0
57	MG	1A	3861	1/1	0.96	0.19	29,29,29,29	0
57	MG	2a	1648	1/1	0.96	0.14	68,68,68,68	0
57	MG	1A	3770	1/1	0.96	0.13	16,16,16,16	0
57	MG	2a	1650	1/1	0.96	0.20	37,37,37,37	0
57	MG	1A	3863	1/1	0.96	0.24	25,25,25,25	0
57	MG	1A	3625	1/1	0.96	0.17	18,18,18,18	0
57	MG	1A	3954	1/1	0.96	0.40	47,47,47,47	0
57	MG	2A	3160	1/1	0.96	0.12	64,64,64,64	0
57	MG	1A	3253	1/1	0.96	0.18	34,34,34,34	0
57	MG	1k	201	1/1	0.96	0.15	44,44,44,44	0
57	MG	1A	3041	1/1	0.96	0.20	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1m	3001	1/1	0.96	0.10	51,51,51,51	0
57	MG	1Q	201	1/1	0.96	0.20	35,35,35,35	0
57	MG	1Q	202	1/1	0.96	0.22	20,20,20,20	0
57	MG	2A	3544	1/1	0.96	0.14	55,55,55,55	0
57	MG	1Q	203	1/1	0.96	0.10	35,35,35,35	0
57	MG	1w	101	1/1	0.96	0.10	38,38,38,38	0
57	MG	1A	3699	1/1	0.96	0.12	47,47,47,47	0
57	MG	1A	3553	1/1	0.96	0.14	32,32,32,32	0
57	MG	1w	105	1/1	0.96	0.22	72,72,72,72	0
57	MG	1A	3869	1/1	0.96	0.23	22,22,22,22	0
57	MG	1A	3261	1/1	0.96	0.13	42,42,42,42	0
57	MG	2A	3769	1/1	0.96	0.10	54,54,54,54	0
57	MG	1A	3225	1/1	0.96	0.11	50,50,50,50	0
57	MG	1A	3962	1/1	0.96	0.22	11,11,11,11	0
57	MG	2A	3555	1/1	0.96	0.13	42,42,42,42	0
57	MG	1A	3963	1/1	0.96	0.15	21,21,21,21	0
57	MG	1a	1685	1/1	0.96	0.12	37,37,37,37	0
57	MG	1A	3965	1/1	0.96	0.12	27,27,27,27	0
57	MG	2A	3359	1/1	0.96	0.26	43,43,43,43	0
57	MG	2A	3360	1/1	0.96	0.09	63,63,63,63	0
57	MG	2A	3778	1/1	0.96	0.15	33,33,33,33	0
57	MG	1A	3226	1/1	0.96	0.35	38,38,38,38	0
57	MG	1A	3783	1/1	0.96	0.20	32,32,32,32	0
57	MG	1U	201	1/1	0.96	0.14	24,24,24,24	0
57	MG	1A	3875	1/1	0.96	0.17	32,32,32,32	0
57	MG	2A	3567	1/1	0.96	0.16	48,48,48,48	0
57	MG	1A	3784	1/1	0.96	0.15	19,19,19,19	0
57	MG	2A	3785	1/1	0.96	0.12	42,42,42,42	0
57	MG	2A	3367	1/1	0.96	0.21	54,54,54,54	0
57	MG	1A	3971	1/1	0.96	0.19	20,20,20,20	0
57	MG	2A	3788	1/1	0.96	0.19	45,45,45,45	0
57	MG	1U	205	1/1	0.96	0.29	51,51,51,51	0
57	MG	2A	3790	1/1	0.96	0.18	55,55,55,55	0
57	MG	1A	3972	1/1	0.96	0.14	20,20,20,20	0
57	MG	1V	202	1/1	0.96	0.11	28,28,28,28	0
57	MG	1x	114	1/1	0.96	0.12	54,54,54,54	0
57	MG	1A	3877	1/1	0.96	0.21	23,23,23,23	0
57	MG	2A	3002	1/1	0.96	0.18	49,49,49,49	0
57	MG	1A	3974	1/1	0.96	0.16	28,28,28,28	0
57	MG	1V	207	1/1	0.96	0.18	46,46,46,46	0
57	MG	2A	3798	1/1	0.96	0.21	46,46,46,46	0
57	MG	1A	3785	1/1	0.96	0.15	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3786	1/1	0.96	0.10	23,23,23,23	0
57	MG	1W	204	1/1	0.96	0.14	37,37,37,37	0
57	MG	2A	3586	1/1	0.96	0.18	63,63,63,63	0
57	MG	1A	3977	1/1	0.96	0.06	41,41,41,41	0
57	MG	1A	4100	1/1	0.96	0.18	49,49,49,49	0
57	MG	1A	3081	1/1	0.96	0.34	42,42,42,42	0
57	MG	1A	3790	1/1	0.96	0.14	34,34,34,34	0
57	MG	1A	3499	1/1	0.96	0.21	37,37,37,37	0
57	MG	2a	1716	1/1	0.96	0.10	71,71,71,71	0
57	MG	1A	3792	1/1	0.96	0.14	36,36,36,36	0
57	MG	1A	3201	1/1	0.96	0.15	37,37,37,37	0
57	MG	1A	3638	1/1	0.96	0.20	24,24,24,24	0
57	MG	2A	3595	1/1	0.96	0.12	54,54,54,54	0
57	MG	2A	3020	1/1	0.96	0.16	40,40,40,40	0
57	MG	2A	3598	1/1	0.96	0.15	46,46,46,46	0
57	MG	2A	3023	1/1	0.96	0.30	54,54,54,54	0
57	MG	1a	1717	1/1	0.96	0.15	37,37,37,37	0
57	MG	1Z	304	1/1	0.96	0.15	53,53,53,53	0
57	MG	10	101	1/1	0.96	0.24	36,36,36,36	0
57	MG	1A	3985	1/1	0.96	0.10	55,55,55,55	0
57	MG	1A	3501	1/1	0.96	0.27	44,44,44,44	0
57	MG	1A	3202	1/1	0.96	0.17	37,37,37,37	0
57	MG	1A	3103	1/1	0.96	0.22	27,27,27,27	0
57	MG	1A	3714	1/1	0.96	0.17	52,52,52,52	0
57	MG	1A	3233	1/1	0.96	0.27	61,61,61,61	0
57	MG	1A	3104	1/1	0.96	0.17	35,35,35,35	0
57	MG	2A	3827	1/1	0.96	0.11	63,63,63,63	0
57	MG	1A	3892	1/1	0.96	0.10	29,29,29,29	0
57	MG	1a	1729	1/1	0.96	0.08	62,62,62,62	0
57	MG	2A	3830	1/1	0.96	0.10	38,38,38,38	0
57	MG	1A	3893	1/1	0.96	0.10	35,35,35,35	0
57	MG	1A	3506	1/1	0.96	0.28	52,52,52,52	0
57	MG	12	101	1/1	0.96	0.18	41,41,41,41	0
57	MG	1A	3804	1/1	0.96	0.12	29,29,29,29	0
57	MG	1A	3805	1/1	0.96	0.16	51,51,51,51	0
57	MG	1A	3309	1/1	0.96	0.17	36,36,36,36	0
57	MG	1A	3276	1/1	0.96	0.23	50,50,50,50	0
57	MG	1B	206	1/1	0.96	0.14	41,41,41,41	0
57	MG	1A	3057	1/1	0.96	0.17	30,30,30,30	0
57	MG	2A	3626	1/1	0.96	0.15	41,41,41,41	0
57	MG	2A	3842	1/1	0.96	0.13	61,61,61,61	0
57	MG	1B	208	1/1	0.96	0.09	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3901	1/1	0.96	0.20	33,33,33,33	0
57	MG	1A	3075	1/1	0.96	0.18	34,34,34,34	0
57	MG	2a	1757	1/1	0.96	0.07	60,60,60,60	0
57	MG	2a	1758	1/1	0.96	0.10	59,59,59,59	0
57	MG	1A	3513	1/1	0.96	0.10	51,51,51,51	0
57	MG	2A	3236	1/1	0.96	0.10	67,67,67,67	0
57	MG	1a	1743	1/1	0.96	0.10	52,52,52,52	0
57	MG	1A	3514	1/1	0.96	0.12	61,61,61,61	0
57	MG	17	104	1/1	0.96	0.13	47,47,47,47	0
57	MG	1A	3347	1/1	0.96	0.16	39,39,39,39	0
57	MG	2A	3637	1/1	0.96	0.21	56,56,56,56	0
57	MG	2a	1766	1/1	0.96	0.22	64,64,64,64	0
57	MG	1A	3814	1/1	0.96	0.09	35,35,35,35	0
57	MG	1A	3815	1/1	0.96	0.18	16,16,16,16	0
57	MG	1A	3816	1/1	0.96	0.17	42,42,42,42	0
57	MG	1A	3207	1/1	0.96	0.12	26,26,26,26	0
57	MG	2B	214	1/1	0.96	0.17	54,54,54,54	0
57	MG	1A	3238	1/1	0.96	0.11	56,56,56,56	0
57	MG	2a	1773	1/1	0.96	0.12	64,64,64,64	0
57	MG	2A	3643	1/1	0.96	0.29	67,67,67,67	0
57	MG	1a	1752	1/1	0.96	0.07	50,50,50,50	0
57	MG	1a	1753	1/1	0.96	0.12	58,58,58,58	0
57	MG	1B	219	1/1	0.96	0.31	41,41,41,41	0
57	MG	2a	1779	1/1	0.96	0.13	63,63,63,63	0
57	MG	1A	3351	1/1	0.96	0.16	36,36,36,36	0
57	MG	2A	3648	1/1	0.96	0.18	33,33,33,33	0
57	MG	2a	1782	1/1	0.96	0.17	55,55,55,55	0
57	MG	2D	306	1/1	0.96	0.41	40,40,40,40	0
57	MG	1A	3821	1/1	0.96	0.19	25,25,25,25	0
57	MG	2A	3438	1/1	0.96	0.20	46,46,46,46	0
57	MG	2a	1786	1/1	0.96	0.10	67,67,67,67	0
57	MG	1A	3579	1/1	0.96	0.15	22,22,22,22	0
57	MG	2a	1788	1/1	0.96	0.24	54,54,54,54	0
57	MG	1A	3823	1/1	0.96	0.24	32,32,32,32	0
57	MG	2A	3256	1/1	0.96	0.06	58,58,58,58	0
57	MG	2A	3074	1/1	0.96	0.08	56,56,56,56	0
57	MG	2E	307	1/1	0.96	0.17	47,47,47,47	0
57	MG	1A	3209	1/1	0.96	0.11	28,28,28,28	0
57	MG	2a	1795	1/1	0.96	0.09	53,53,53,53	0
57	MG	1B	226	1/1	0.96	0.20	41,41,41,41	0
57	MG	1A	3663	1/1	0.96	0.24	53,53,53,53	0
57	MG	2a	1798	1/1	0.96	0.35	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1610	1/1	0.96	0.21	47,47,47,47	0
57	MG	1A	3354	1/1	0.96	0.30	38,38,38,38	0
57	MG	1A	3044	1/1	0.96	0.18	31,31,31,31	0
57	MG	1a	1614	1/1	0.96	0.23	55,55,55,55	0
57	MG	1A	3432	1/1	0.96	0.21	59,59,59,59	0
57	MG	2a	1804	1/1	0.96	0.20	52,52,52,52	0
57	MG	1a	1616	1/1	0.96	0.10	48,48,48,48	0
57	MG	1A	3211	1/1	0.96	0.07	59,59,59,59	0
57	MG	1A	3475	1/1	0.96	0.12	37,37,37,37	0
57	MG	1A	3053	1/1	0.96	0.16	40,40,40,40	0
57	MG	1A	4026	1/1	0.96	0.12	39,39,39,39	0
57	MG	2A	3091	1/1	0.96	0.11	43,43,43,43	0
57	MG	1B	235	1/1	0.96	0.09	65,65,65,65	0
57	MG	1a	1776	1/1	0.96	0.29	48,48,48,48	0
57	MG	2A	3464	1/1	0.96	0.11	53,53,53,53	0
57	MG	1B	236	1/1	0.96	0.10	35,35,35,35	0
57	MG	2U	201	1/1	0.96	0.29	43,43,43,43	0
57	MG	2A	3466	1/1	0.96	0.15	49,49,49,49	0
57	MG	1A	3477	1/1	0.96	0.17	20,20,20,20	0
57	MG	2a	1821	1/1	0.96	0.07	58,58,58,58	0
57	MG	2a	1822	1/1	0.96	0.07	61,61,61,61	0
57	MG	2A	3470	1/1	0.96	0.17	57,57,57,57	0
57	MG	1A	4029	1/1	0.96	0.22	53,53,53,53	0
57	MG	2X	102	1/1	0.96	0.18	47,47,47,47	0
57	MG	2A	3098	1/1	0.96	0.16	45,45,45,45	0
57	MG	2A	3473	1/1	0.96	0.17	66,66,66,66	0
57	MG	1D	303	1/1	0.96	0.36	48,48,48,48	0
57	MG	1A	3533	1/1	0.96	0.21	46,46,46,46	0
57	MG	2A	3102	1/1	0.96	0.18	48,48,48,48	0
57	MG	2A	3692	1/1	0.96	0.14	54,54,54,54	0
57	MG	1A	3145	1/1	0.96	0.23	27,27,27,27	0
57	MG	1A	3839	1/1	0.96	0.19	32,32,32,32	0
57	MG	1A	4035	1/1	0.96	0.12	47,47,47,47	0
57	MG	1A	3535	1/1	0.96	0.20	38,38,38,38	0
57	MG	2A	3698	1/1	0.96	0.19	30,30,30,30	0
57	MG	1a	1788	1/1	0.96	0.12	45,45,45,45	0
57	MG	2l	203	1/1	0.96	0.27	58,58,58,58	0
57	MG	1D	314	1/1	0.96	0.33	34,34,34,34	0
57	MG	1E	302	1/1	0.96	0.29	36,36,36,36	0
57	MG	1A	3215	1/1	0.96	0.33	33,33,33,33	0
57	MG	1a	1793	1/1	0.96	0.12	55,55,55,55	0
57	MG	1A	3680	1/1	0.96	0.10	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3294	1/1	0.96	0.08	59,59,59,59	0
57	MG	1A	3539	1/1	0.96	0.12	42,42,42,42	0
57	MG	1A	3606	1/1	0.96	0.22	49,49,49,49	0
57	MG	2A	3494	1/1	0.96	0.18	35,35,35,35	0
57	MG	2A	3711	1/1	0.96	0.09	50,50,50,50	0
57	MG	1A	4041	1/1	0.96	0.25	31,31,31,31	0
57	MG	1A	3096	1/1	0.96	0.19	28,28,28,28	0
57	MG	1A	3290	1/1	0.96	0.41	34,34,34,34	0
57	MG	1A	3610	1/1	0.96	0.16	26,26,26,26	0
57	MG	1A	4045	1/1	0.96	0.31	46,46,46,46	0
57	MG	1A	3148	1/1	0.96	0.17	26,26,26,26	0
57	MG	1F	302	1/1	0.96	0.14	23,23,23,23	0
57	MG	1A	3688	1/1	0.96	0.10	45,45,45,45	0
57	MG	1A	3851	1/1	0.96	0.11	20,20,20,20	0
57	MG	1F	309	1/1	0.96	0.23	50,50,50,50	0
57	MG	2A	3310	1/1	0.96	0.25	63,63,63,63	0
57	MG	2A	3129	1/1	0.96	0.23	37,37,37,37	0
57	MG	1A	3612	1/1	0.96	0.20	26,26,26,26	0
57	MG	1A	3010	1/1	0.96	0.18	37,37,37,37	0
57	MG	1A	3404	1/1	0.96	0.11	35,35,35,35	0
57	MG	1A	4053	1/1	0.96	0.11	48,48,48,48	0
57	MG	1A	3366	1/1	0.96	0.15	23,23,23,23	0
57	MG	1a	1813	1/1	0.96	0.13	37,37,37,37	0
57	MG	2A	3137	1/1	0.96	0.12	35,35,35,35	0
57	MG	1A	3368	1/1	0.96	0.22	40,40,40,40	0
57	MG	1A	3250	1/1	0.96	0.12	37,37,37,37	0
62	PHE	1w	110	11/12	0.96	0.24	14,19,25,25	0
57	MG	1A	3947	1/1	0.96	0.27	46,46,46,46	0
57	MG	2a	1635	1/1	0.96	0.09	56,56,56,56	0
57	MG	2a	1625	1/1	0.97	0.20	76,76,76,76	0
57	MG	1A	3273	1/1	0.97	0.16	32,32,32,32	0
57	MG	1A	3007	1/1	0.97	0.18	23,23,23,23	0
57	MG	1A	4059	1/1	0.97	0.09	44,44,44,44	0
57	MG	2A	3491	1/1	0.97	0.23	33,33,33,33	0
57	MG	1A	3748	1/1	0.97	0.13	42,42,42,42	0
57	MG	1A	4061	1/1	0.97	0.18	26,26,26,26	0
57	MG	2A	3720	1/1	0.97	0.17	46,46,46,46	0
57	MG	1A	3190	1/1	0.97	0.20	36,36,36,36	0
57	MG	1A	3853	1/1	0.97	0.13	39,39,39,39	0
57	MG	1a	1797	1/1	0.97	0.11	57,57,57,57	0
57	MG	1A	3497	1/1	0.97	0.19	37,37,37,37	0
57	MG	1A	4065	1/1	0.97	0.24	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3297	1/1	0.97	0.08	39,39,39,39	0
57	MG	1A	3277	1/1	0.97	0.21	46,46,46,46	0
57	MG	1A	4067	1/1	0.97	0.14	17,17,17,17	0
57	MG	2a	1642	1/1	0.97	0.14	65,65,65,65	0
57	MG	2A	3115	1/1	0.97	0.10	58,58,58,58	0
57	MG	2a	1644	1/1	0.97	0.08	63,63,63,63	0
57	MG	1A	4068	1/1	0.97	0.13	22,22,22,22	0
57	MG	2A	3504	1/1	0.97	0.19	33,33,33,33	0
57	MG	2A	3302	1/1	0.97	0.13	57,57,57,57	0
57	MG	1a	1648	1/1	0.97	0.11	49,49,49,49	0
57	MG	1A	3571	1/1	0.97	0.10	29,29,29,29	0
57	MG	1A	3191	1/1	0.97	0.22	25,25,25,25	0
57	MG	1A	3192	1/1	0.97	0.13	32,32,32,32	0
57	MG	2a	1652	1/1	0.97	0.12	58,58,58,58	0
57	MG	1A	3073	1/1	0.97	0.12	35,35,35,35	0
57	MG	1A	3231	1/1	0.97	0.14	24,24,24,24	0
57	MG	1A	3442	1/1	0.97	0.11	55,55,55,55	0
57	MG	1a	1656	1/1	0.97	0.29	53,53,53,53	0
57	MG	2A	3126	1/1	0.97	0.23	40,40,40,40	0
57	MG	2A	3516	1/1	0.97	0.22	27,27,27,27	0
57	MG	2A	3127	1/1	0.97	0.13	32,32,32,32	0
57	MG	1A	3124	1/1	0.97	0.10	37,37,37,37	0
57	MG	1A	3028	1/1	0.97	0.21	30,30,30,30	0
57	MG	1A	3161	1/1	0.97	0.20	29,29,29,29	0
57	MG	2A	3131	1/1	0.97	0.20	39,39,39,39	0
57	MG	2a	1665	1/1	0.97	0.15	47,47,47,47	0
57	MG	1A	3580	1/1	0.97	0.14	29,29,29,29	0
57	MG	1P	203	1/1	0.97	0.18	27,27,27,27	0
57	MG	1P	205	1/1	0.97	0.09	33,33,33,33	0
57	MG	2A	3751	1/1	0.97	0.16	42,42,42,42	0
57	MG	2A	3525	1/1	0.97	0.15	55,55,55,55	0
57	MG	2A	3322	1/1	0.97	0.23	50,50,50,50	0
57	MG	2A	3754	1/1	0.97	0.19	34,34,34,34	0
57	MG	1P	206	1/1	0.97	0.11	35,35,35,35	0
57	MG	1a	1664	1/1	0.97	0.11	51,51,51,51	0
57	MG	1A	3966	1/1	0.97	0.13	49,49,49,49	0
57	MG	2A	3758	1/1	0.97	0.18	47,47,47,47	0
57	MG	1A	3768	1/1	0.97	0.15	16,16,16,16	0
57	MG	1A	3583	1/1	0.97	0.20	26,26,26,26	0
57	MG	1A	3675	1/1	0.97	0.14	53,53,53,53	0
57	MG	1A	3771	1/1	0.97	0.19	20,20,20,20	0
57	MG	1Q	206	1/1	0.97	0.11	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3197	1/1	0.97	0.23	45,45,45,45	0
57	MG	2A	3147	1/1	0.97	0.07	56,56,56,56	0
57	MG	1A	3586	1/1	0.97	0.20	25,25,25,25	0
57	MG	1A	4090	1/1	0.97	0.15	33,33,33,33	0
57	MG	1A	3587	1/1	0.97	0.18	35,35,35,35	0
57	MG	1j	201	1/1	0.97	0.14	63,63,63,63	0
57	MG	1A	4092	1/1	0.97	0.12	37,37,37,37	0
57	MG	1S	201	1/1	0.97	0.31	40,40,40,40	0
57	MG	2A	3545	1/1	0.97	0.21	56,56,56,56	0
57	MG	1l	202	1/1	0.97	0.07	53,53,53,53	0
57	MG	1A	3776	1/1	0.97	0.05	59,59,59,59	0
57	MG	2a	1695	1/1	0.97	0.12	52,52,52,52	0
57	MG	1A	4094	1/1	0.97	0.20	52,52,52,52	0
57	MG	1T	201	1/1	0.97	0.09	50,50,50,50	0
57	MG	1A	3874	1/1	0.97	0.13	32,32,32,32	0
57	MG	1A	3128	1/1	0.97	0.27	27,27,27,27	0
57	MG	1A	3509	1/1	0.97	0.21	46,46,46,46	0
57	MG	1A	3590	1/1	0.97	0.17	18,18,18,18	0
57	MG	2A	3163	1/1	0.97	0.28	52,52,52,52	0
57	MG	1w	104	1/1	0.97	0.09	59,59,59,59	0
57	MG	1A	3163	1/1	0.97	0.25	20,20,20,20	0
57	MG	2A	3166	1/1	0.97	0.25	30,30,30,30	0
57	MG	1w	106	1/1	0.97	0.17	66,66,66,66	0
57	MG	1A	3781	1/1	0.97	0.20	22,22,22,22	0
57	MG	1U	206	1/1	0.97	0.19	40,40,40,40	0
57	MG	1U	208	1/1	0.97	0.22	34,34,34,34	0
57	MG	1a	1689	1/1	0.97	0.18	37,37,37,37	0
57	MG	1a	1690	1/1	0.97	0.23	57,57,57,57	0
57	MG	1U	209	1/1	0.97	0.17	33,33,33,33	0
57	MG	1a	1692	1/1	0.97	0.20	52,52,52,52	0
57	MG	2A	3361	1/1	0.97	0.24	61,61,61,61	0
57	MG	1A	3511	1/1	0.97	0.25	38,38,38,38	0
57	MG	1a	1694	1/1	0.97	0.16	57,57,57,57	0
57	MG	2A	3571	1/1	0.97	0.22	27,27,27,27	0
57	MG	2A	3177	1/1	0.97	0.15	48,48,48,48	0
57	MG	2A	3573	1/1	0.97	0.14	39,39,39,39	0
57	MG	1A	3105	1/1	0.97	0.11	34,34,34,34	0
57	MG	1V	203	1/1	0.97	0.17	24,24,24,24	0
57	MG	2A	3576	1/1	0.97	0.11	41,41,41,41	0
57	MG	2A	3577	1/1	0.97	0.23	47,47,47,47	0
57	MG	1A	3106	1/1	0.97	0.29	36,36,36,36	0
57	MG	1A	3033	1/1	0.97	0.11	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3109	1/1	0.97	0.20	30,30,30,30	0
57	MG	1A	3987	1/1	0.97	0.14	35,35,35,35	0
57	MG	1A	3076	1/1	0.97	0.12	19,19,19,19	0
57	MG	1A	3788	1/1	0.97	0.12	35,35,35,35	0
57	MG	2A	3810	1/1	0.97	0.17	33,33,33,33	0
57	MG	1A	3789	1/1	0.97	0.17	31,31,31,31	0
57	MG	1A	3243	1/1	0.97	0.12	28,28,28,28	0
57	MG	2A	3813	1/1	0.97	0.11	48,48,48,48	0
57	MG	1A	3021	1/1	0.97	0.11	36,36,36,36	0
57	MG	1A	4114	1/1	0.97	0.19	28,28,28,28	0
57	MG	1A	3603	1/1	0.97	0.21	45,45,45,45	0
57	MG	1A	3348	1/1	0.97	0.13	16,16,16,16	0
57	MG	1A	3794	1/1	0.97	0.28	58,58,58,58	0
57	MG	1A	3050	1/1	0.97	0.09	43,43,43,43	0
57	MG	2a	1745	1/1	0.97	0.22	53,53,53,53	0
57	MG	1A	3894	1/1	0.97	0.18	8,8,8,8	0
57	MG	1A	3012	1/1	0.97	0.18	21,21,21,21	0
57	MG	1a	1714	1/1	0.97	0.11	46,46,46,46	0
57	MG	2A	3014	1/1	0.97	0.10	55,55,55,55	0
57	MG	2A	3015	1/1	0.97	0.22	24,24,24,24	0
57	MG	1A	3093	1/1	0.97	0.14	24,24,24,24	0
57	MG	2a	1752	1/1	0.97	0.18	60,60,60,60	0
57	MG	1A	3798	1/1	0.97	0.12	37,37,37,37	0
57	MG	1A	3461	1/1	0.97	0.29	39,39,39,39	0
57	MG	1A	3352	1/1	0.97	0.21	45,45,45,45	0
57	MG	1A	3177	1/1	0.97	0.18	25,25,25,25	0
57	MG	2A	3021	1/1	0.97	0.15	33,33,33,33	0
57	MG	1A	3178	1/1	0.97	0.12	28,28,28,28	0
57	MG	1A	3614	1/1	0.97	0.17	56,56,56,56	0
57	MG	1a	1723	1/1	0.97	0.10	35,35,35,35	0
57	MG	2A	3834	1/1	0.97	0.14	48,48,48,48	0
57	MG	2A	3608	1/1	0.97	0.12	36,36,36,36	0
57	MG	11	101	1/1	0.97	0.28	32,32,32,32	0
57	MG	1A	3531	1/1	0.97	0.24	18,18,18,18	0
57	MG	1A	3616	1/1	0.97	0.08	34,34,34,34	0
57	MG	11	104	1/1	0.97	0.07	54,54,54,54	0
57	MG	1A	3806	1/1	0.97	0.28	24,24,24,24	0
57	MG	1A	3617	1/1	0.97	0.16	38,38,38,38	0
57	MG	1A	4011	1/1	0.97	0.20	31,31,31,31	0
57	MG	2A	3405	1/1	0.97	0.09	53,53,53,53	0
57	MG	13	102	1/1	0.97	0.21	37,37,37,37	0
57	MG	1A	4012	1/1	0.97	0.07	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3620	1/1	0.97	0.25	46,46,46,46	0
57	MG	2A	3408	1/1	0.97	0.33	41,41,41,41	0
57	MG	1A	3707	1/1	0.97	0.20	18,18,18,18	0
57	MG	2a	1776	1/1	0.97	0.29	55,55,55,55	0
57	MG	2A	3623	1/1	0.97	0.09	53,53,53,53	0
57	MG	2A	3219	1/1	0.97	0.21	32,32,32,32	0
57	MG	1A	3618	1/1	0.97	0.20	36,36,36,36	0
57	MG	1A	3301	1/1	0.97	0.17	51,51,51,51	0
57	MG	2A	3413	1/1	0.97	0.34	47,47,47,47	0
57	MG	15	102	1/1	0.97	0.20	35,35,35,35	0
57	MG	1A	3466	1/1	0.97	0.13	28,28,28,28	0
57	MG	1B	220	1/1	0.97	0.20	34,34,34,34	0
57	MG	1A	3712	1/1	0.97	0.23	42,42,42,42	0
57	MG	1A	3356	1/1	0.97	0.28	36,36,36,36	0
57	MG	2A	3419	1/1	0.97	0.18	64,64,64,64	0
57	MG	1A	3212	1/1	0.97	0.17	47,47,47,47	0
57	MG	2B	218	1/1	0.97	0.16	67,67,67,67	0
57	MG	1A	3469	1/1	0.97	0.20	30,30,30,30	0
57	MG	1A	3252	1/1	0.97	0.08	38,38,38,38	0
57	MG	1A	3094	1/1	0.97	0.10	33,33,33,33	0
57	MG	2a	1793	1/1	0.97	0.14	53,53,53,53	0
57	MG	2A	3050	1/1	0.97	0.10	59,59,59,59	0
57	MG	1A	3306	1/1	0.97	0.28	39,39,39,39	0
57	MG	2D	307	1/1	0.97	0.20	48,48,48,48	0
57	MG	18	103	1/1	0.97	0.17	37,37,37,37	0
57	MG	1A	3416	1/1	0.97	0.22	34,34,34,34	0
57	MG	1A	3919	1/1	0.97	0.14	39,39,39,39	0
57	MG	2E	302	1/1	0.97	0.13	51,51,51,51	0
57	MG	2A	3429	1/1	0.97	0.20	58,58,58,58	0
57	MG	2E	304	1/1	0.97	0.19	36,36,36,36	0
57	MG	1A	3255	1/1	0.97	0.18	25,25,25,25	0
57	MG	1A	3631	1/1	0.97	0.16	19,19,19,19	0
57	MG	1A	3256	1/1	0.97	0.37	33,33,33,33	0
57	MG	2a	1806	1/1	0.97	0.16	63,63,63,63	0
57	MG	1A	3258	1/1	0.97	0.24	29,29,29,29	0
57	MG	1A	4031	1/1	0.97	0.22	15,15,15,15	0
57	MG	1a	1754	1/1	0.97	0.08	46,46,46,46	0
57	MG	2A	3061	1/1	0.97	0.18	29,29,29,29	0
57	MG	2A	3062	1/1	0.97	0.25	48,48,48,48	0
57	MG	1A	3013	1/1	0.97	0.10	19,19,19,19	0
57	MG	2A	3246	1/1	0.97	0.14	53,53,53,53	0
57	MG	1A	3925	1/1	0.97	0.07	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2O	201	1/1	0.97	0.15	68,68,68,68	0
57	MG	1A	3635	1/1	0.97	0.16	19,19,19,19	0
57	MG	1A	3636	1/1	0.97	0.18	22,22,22,22	0
57	MG	2A	3660	1/1	0.97	0.14	32,32,32,32	0
57	MG	1A	3260	1/1	0.97	0.31	39,39,39,39	0
57	MG	1D	304	1/1	0.97	0.14	32,32,32,32	0
57	MG	2A	3663	1/1	0.97	0.15	38,38,38,38	0
57	MG	1D	305	1/1	0.97	0.20	17,17,17,17	0
57	MG	2A	3253	1/1	0.97	0.10	60,60,60,60	0
57	MG	2A	3447	1/1	0.97	0.08	45,45,45,45	0
57	MG	2T	203	1/1	0.97	0.24	49,49,49,49	0
57	MG	2A	3071	1/1	0.97	0.15	39,39,39,39	0
57	MG	1a	1612	1/1	0.97	0.12	53,53,53,53	0
57	MG	2A	3073	1/1	0.97	0.19	44,44,44,44	0
57	MG	1D	307	1/1	0.97	0.17	29,29,29,29	0
57	MG	2A	3671	1/1	0.97	0.19	35,35,35,35	0
57	MG	1A	3181	1/1	0.97	0.16	28,28,28,28	0
57	MG	2A	3454	1/1	0.97	0.36	51,51,51,51	0
57	MG	2A	3455	1/1	0.97	0.23	36,36,36,36	0
57	MG	2A	3456	1/1	0.97	0.18	39,39,39,39	0
57	MG	1A	3830	1/1	0.97	0.16	17,17,17,17	0
57	MG	1A	3369	1/1	0.97	0.18	40,40,40,40	0
57	MG	2A	3079	1/1	0.97	0.11	41,41,41,41	0
57	MG	1A	3043	1/1	0.97	0.18	29,29,29,29	0
57	MG	1A	3833	1/1	0.97	0.18	27,27,27,27	0
57	MG	2A	3265	1/1	0.97	0.18	52,52,52,52	0
57	MG	2A	3684	1/1	0.97	0.11	53,53,53,53	0
57	MG	25	104	1/1	0.97	0.08	66,66,66,66	0
57	MG	1A	3482	1/1	0.97	0.15	29,29,29,29	0
57	MG	1D	315	1/1	0.97	0.30	30,30,30,30	0
57	MG	2A	3084	1/1	0.97	0.20	36,36,36,36	0
57	MG	1a	1621	1/1	0.97	0.18	40,40,40,40	0
57	MG	1A	3219	1/1	0.97	0.32	27,27,27,27	0
57	MG	2A	3690	1/1	0.97	0.19	60,60,60,60	0
57	MG	2A	3691	1/1	0.97	0.12	63,63,63,63	0
57	MG	2A	3468	1/1	0.97	0.12	41,41,41,41	0
57	MG	2A	3469	1/1	0.97	0.14	33,33,33,33	0
57	MG	2A	3694	1/1	0.97	0.27	57,57,57,57	0
57	MG	1A	3054	1/1	0.97	0.21	16,16,16,16	0
57	MG	1a	1775	1/1	0.97	0.22	47,47,47,47	0
57	MG	1A	3221	1/1	0.97	0.21	43,43,43,43	0
57	MG	1A	3736	1/1	0.97	0.14	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1a	1626	1/1	0.97	0.26	58,58,58,58	0
57	MG	1A	3841	1/1	0.97	0.17	25,25,25,25	0
57	MG	2y	101	1/1	0.97	0.09	70,70,70,70	0
57	MG	1A	3319	1/1	0.97	0.15	34,34,34,34	0
57	MG	1A	3098	1/1	0.97	0.22	35,35,35,35	0
57	MG	2A	3095	1/1	0.97	0.15	31,31,31,31	0
57	MG	1A	3268	1/1	0.97	0.12	34,34,34,34	0
60	ZN	1Y	203	1/1	0.97	0.16	55,55,55,55	0
57	MG	1A	3742	1/1	0.97	0.10	16,16,16,16	0
57	MG	2A	3707	1/1	0.97	0.19	37,37,37,37	0
57	MG	1A	3149	1/1	0.97	0.13	24,24,24,24	0
60	ZN	25	105	1/1	0.97	0.17	67,67,67,67	0
57	MG	1A	3271	1/1	0.97	0.07	49,49,49,49	0
57	MG	1a	1787	1/1	0.97	0.20	56,56,56,56	0
57	MG	2A	3485	1/1	0.97	0.15	43,43,43,43	0
57	MG	1A	3009	1/1	0.97	0.19	26,26,26,26	0
57	MG	2a	1624	1/1	0.97	0.37	80,80,80,80	0
57	MG	1A	3022	1/1	0.98	0.17	11,11,11,11	0
57	MG	18	102	1/1	0.98	0.19	31,31,31,31	0
57	MG	1A	3516	1/1	0.98	0.12	33,33,33,33	0
57	MG	2A	3076	1/1	0.98	0.17	40,40,40,40	0
57	MG	1A	3303	1/1	0.98	0.20	47,47,47,47	0
57	MG	1A	3230	1/1	0.98	0.18	43,43,43,43	0
57	MG	1A	3935	1/1	0.98	0.09	58,58,58,58	0
57	MG	2A	3599	1/1	0.98	0.13	58,58,58,58	0
57	MG	1A	3067	1/1	0.98	0.18	11,11,11,11	0
57	MG	1A	3170	1/1	0.98	0.27	38,38,38,38	0
57	MG	1A	3269	1/1	0.98	0.23	48,48,48,48	0
57	MG	2R	202	1/1	0.98	0.54	50,50,50,50	0
57	MG	1A	3708	1/1	0.98	0.17	11,11,11,11	0
57	MG	1A	3118	1/1	0.98	0.18	34,34,34,34	0
57	MG	1A	4109	1/1	0.98	0.26	30,30,30,30	0
57	MG	1A	3641	1/1	0.98	0.13	24,24,24,24	0
57	MG	1a	1716	1/1	0.98	0.20	61,61,61,61	0
57	MG	2A	3337	1/1	0.98	0.20	35,35,35,35	0
57	MG	2a	1737	1/1	0.98	0.07	57,57,57,57	0
57	MG	1A	3391	1/1	0.98	0.20	45,45,45,45	0
57	MG	2V	201	1/1	0.98	0.21	45,45,45,45	0
57	MG	1A	3100	1/1	0.98	0.26	22,22,22,22	0
57	MG	1A	3581	1/1	0.98	0.23	14,14,14,14	0
57	MG	2A	3612	1/1	0.98	0.14	29,29,29,29	0
57	MG	2a	1743	1/1	0.98	0.13	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3582	1/1	0.98	0.15	30,30,30,30	0
57	MG	2Y	201	1/1	0.98	0.23	48,48,48,48	0
57	MG	2A	3213	1/1	0.98	0.14	45,45,45,45	0
57	MG	1A	3174	1/1	0.98	0.17	30,30,30,30	0
57	MG	1A	3068	1/1	0.98	0.17	24,24,24,24	0
57	MG	1P	201	1/1	0.98	0.17	26,26,26,26	0
57	MG	1A	3648	1/1	0.98	0.16	23,23,23,23	0
57	MG	1P	204	1/1	0.98	0.17	25,25,25,25	0
57	MG	1A	3585	1/1	0.98	0.17	28,28,28,28	0
57	MG	1A	3274	1/1	0.98	0.22	26,26,26,26	0
57	MG	2A	3767	1/1	0.98	0.16	32,32,32,32	0
57	MG	2A	3099	1/1	0.98	0.18	45,45,45,45	0
57	MG	1A	3651	1/1	0.98	0.15	25,25,25,25	0
57	MG	2A	3484	1/1	0.98	0.14	37,37,37,37	0
57	MG	1A	4033	1/1	0.98	0.25	36,36,36,36	0
57	MG	1A	3034	1/1	0.98	0.19	34,34,34,34	0
57	MG	1A	3532	1/1	0.98	0.24	29,29,29,29	0
57	MG	1A	3071	1/1	0.98	0.28	24,24,24,24	0
57	MG	2A	3629	1/1	0.98	0.19	25,25,25,25	0
57	MG	1A	3724	1/1	0.98	0.22	32,32,32,32	0
57	MG	2A	3490	1/1	0.98	0.19	27,27,27,27	0
57	MG	1A	3035	1/1	0.98	0.26	17,17,17,17	0
57	MG	1A	3591	1/1	0.98	0.11	39,39,39,39	0
57	MG	1A	3485	1/1	0.98	0.24	34,34,34,34	0
57	MG	1R	204	1/1	0.98	0.14	25,25,25,25	0
57	MG	1A	3208	1/1	0.98	0.10	24,24,24,24	0
57	MG	1A	3538	1/1	0.98	0.27	36,36,36,36	0
57	MG	1A	3487	1/1	0.98	0.21	25,25,25,25	0
57	MG	1A	3661	1/1	0.98	0.16	22,22,22,22	0
57	MG	1A	3662	1/1	0.98	0.23	16,16,16,16	0
57	MG	1A	3964	1/1	0.98	0.18	20,20,20,20	0
57	MG	1A	3318	1/1	0.98	0.18	33,33,33,33	0
57	MG	1A	3541	1/1	0.98	0.14	31,31,31,31	0
57	MG	1A	3599	1/1	0.98	0.18	17,17,17,17	0
57	MG	2A	3241	1/1	0.98	0.15	58,58,58,58	0
57	MG	1A	3036	1/1	0.98	0.18	28,28,28,28	0
57	MG	1A	3738	1/1	0.98	0.09	30,30,30,30	0
57	MG	1a	1640	1/1	0.98	0.10	45,45,45,45	0
57	MG	1A	3668	1/1	0.98	0.20	29,29,29,29	0
57	MG	1A	3360	1/1	0.98	0.25	32,32,32,32	0
57	MG	1A	3544	1/1	0.98	0.17	65,65,65,65	0
57	MG	2A	3125	1/1	0.98	0.22	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2A	3512	1/1	0.98	0.18	64,64,64,64	0
57	MG	2a	1628	1/1	0.98	0.31	45,45,45,45	0
57	MG	1A	3037	1/1	0.98	0.32	26,26,26,26	0
57	MG	2A	3655	1/1	0.98	0.19	48,48,48,48	0
57	MG	1A	3152	1/1	0.98	0.16	37,37,37,37	0
57	MG	2A	3008	1/1	0.98	0.10	38,38,38,38	0
57	MG	1V	201	1/1	0.98	0.25	27,27,27,27	0
57	MG	1A	3820	1/1	0.98	0.23	22,22,22,22	0
57	MG	1A	3153	1/1	0.98	0.16	29,29,29,29	0
57	MG	1A	3184	1/1	0.98	0.18	26,26,26,26	0
57	MG	1V	205	1/1	0.98	0.10	29,29,29,29	0
57	MG	1A	3127	1/1	0.98	0.12	25,25,25,25	0
57	MG	1A	3451	1/1	0.98	0.12	28,28,28,28	0
57	MG	1a	1653	1/1	0.98	0.12	60,60,60,60	0
57	MG	1A	3980	1/1	0.98	0.15	47,47,47,47	0
57	MG	1A	3155	1/1	0.98	0.23	12,12,12,12	0
57	MG	2A	3262	1/1	0.98	0.33	57,57,57,57	0
57	MG	1A	3749	1/1	0.98	0.17	32,32,32,32	0
57	MG	1A	3679	1/1	0.98	0.10	51,51,51,51	0
57	MG	1a	1767	1/1	0.98	0.14	61,61,61,61	0
57	MG	2A	3142	1/1	0.98	0.23	54,54,54,54	0
57	MG	2A	3396	1/1	0.98	0.17	59,59,59,59	0
57	MG	1A	3367	1/1	0.98	0.28	32,32,32,32	0
57	MG	1X	104	1/1	0.98	0.15	32,32,32,32	0
57	MG	2A	3678	1/1	0.98	0.19	38,38,38,38	0
57	MG	2A	3145	1/1	0.98	0.14	31,31,31,31	0
57	MG	2a	1812	1/1	0.98	0.23	48,48,48,48	0
57	MG	2a	1813	1/1	0.98	0.21	55,55,55,55	0
57	MG	2A	3146	1/1	0.98	0.17	45,45,45,45	0
57	MG	1A	3216	1/1	0.98	0.14	25,25,25,25	0
57	MG	2A	3403	1/1	0.98	0.20	17,17,17,17	0
57	MG	1A	3753	1/1	0.98	0.17	14,14,14,14	0
57	MG	1A	3156	1/1	0.98	0.24	32,32,32,32	0
57	MG	2A	3150	1/1	0.98	0.20	39,39,39,39	0
57	MG	1A	3218	1/1	0.98	0.18	26,26,26,26	0
57	MG	2A	3543	1/1	0.98	0.14	57,57,57,57	0
57	MG	2A	3030	1/1	0.98	0.25	56,56,56,56	0
57	MG	1A	3684	1/1	0.98	0.24	39,39,39,39	0
57	MG	2A	3032	1/1	0.98	0.18	24,24,24,24	0
57	MG	1A	4074	1/1	0.98	0.13	29,29,29,29	0
57	MG	1A	4075	1/1	0.98	0.22	29,29,29,29	0
57	MG	1D	309	1/1	0.98	0.18	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3557	1/1	0.98	0.26	32,32,32,32	0
57	MG	1A	3758	1/1	0.98	0.19	15,15,15,15	0
57	MG	2a	1830	1/1	0.98	0.08	55,55,55,55	0
57	MG	1A	3020	1/1	0.98	0.13	24,24,24,24	0
57	MG	2d	301	1/1	0.98	0.15	51,51,51,51	0
57	MG	1A	3837	1/1	0.98	0.15	26,26,26,26	0
57	MG	10	106	1/1	0.98	0.17	40,40,40,40	0
57	MG	2A	3287	1/1	0.98	0.40	48,48,48,48	0
57	MG	1A	3760	1/1	0.98	0.18	29,29,29,29	0
57	MG	1A	4081	1/1	0.98	0.21	16,16,16,16	0
57	MG	1a	1675	1/1	0.98	0.18	62,62,62,62	0
57	MG	2A	3703	1/1	0.98	0.10	57,57,57,57	0
57	MG	1E	301	1/1	0.98	0.21	25,25,25,25	0
57	MG	1A	3129	1/1	0.98	0.18	36,36,36,36	0
57	MG	2A	3561	1/1	0.98	0.14	33,33,33,33	0
57	MG	1A	3762	1/1	0.98	0.13	37,37,37,37	0
57	MG	1A	3029	1/1	0.98	0.14	30,30,30,30	0
57	MG	2A	3564	1/1	0.98	0.12	38,38,38,38	0
57	MG	1A	3160	1/1	0.98	0.19	30,30,30,30	0
57	MG	1E	307	1/1	0.98	0.12	35,35,35,35	0
57	MG	1E	308	1/1	0.98	0.10	38,38,38,38	0
57	MG	1A	3621	1/1	0.98	0.18	22,22,22,22	0
57	MG	13	101	1/1	0.98	0.14	28,28,28,28	0
57	MG	1A	3257	1/1	0.98	0.21	30,30,30,30	0
57	MG	1A	3623	1/1	0.98	0.21	21,21,21,21	0
57	MG	2A	3717	1/1	0.98	0.09	60,60,60,60	0
57	MG	1A	3131	1/1	0.98	0.21	27,27,27,27	0
57	MG	1A	3040	1/1	0.98	0.13	27,27,27,27	0
57	MG	2D	303	1/1	0.98	0.29	46,46,46,46	0
57	MG	2A	3304	1/1	0.98	0.08	37,37,37,37	0
57	MG	1A	3030	1/1	0.98	0.19	25,25,25,25	0
57	MG	1A	3063	1/1	0.98	0.19	22,22,22,22	0
57	MG	1A	4006	1/1	0.98	0.22	25,25,25,25	0
57	MG	15	104	1/1	0.98	0.20	32,32,32,32	0
57	MG	15	105	1/1	0.98	0.21	30,30,30,30	0
57	MG	1F	303	1/1	0.98	0.13	31,31,31,31	0
57	MG	1A	3262	1/1	0.98	0.22	31,31,31,31	0
58	K	1A	3528	1/1	0.98	0.14	36,36,36,36	0
57	MG	1a	1696	1/1	0.98	0.12	46,46,46,46	0
57	MG	1F	306	1/1	0.98	0.16	22,22,22,22	0
57	MG	1F	307	1/1	0.98	0.16	28,28,28,28	0
57	MG	17	102	1/1	0.98	0.20	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	2a	1709	1/1	0.98	0.20	38,38,38,38	0
60	ZN	15	108	1/1	0.98	0.15	42,42,42,42	0
57	MG	1A	3340	1/1	0.98	0.10	47,47,47,47	0
57	MG	2E	308	1/1	0.98	0.18	35,35,35,35	0
57	MG	2F	301	1/1	0.98	0.14	39,39,39,39	0
60	ZN	26	501	1/1	0.98	0.16	53,53,53,53	0
57	MG	2A	3317	1/1	0.98	0.06	61,61,61,61	0
57	MG	2A	3070	1/1	0.98	0.26	26,26,26,26	0
61	SF4	2d	302	8/8	0.98	0.11	55,62,70,73	0
57	MG	1A	3042	1/1	0.98	0.10	33,33,33,33	0
57	MG	2a	1717	1/1	0.98	0.16	49,49,49,49	0
63	FME	1x	115	10/11	0.98	0.23	17,19,23,28	10
57	MG	1A	3065	1/1	0.98	0.23	11,11,11,11	0
57	MG	1A	3032	1/1	0.99	0.26	23,23,23,23	0
57	MG	1A	3519	1/1	0.99	0.13	29,29,29,29	0
57	MG	2a	1675	1/1	0.99	0.27	56,56,56,56	0
57	MG	1A	3737	1/1	0.99	0.17	23,23,23,23	0
57	MG	1Y	202	1/1	0.99	0.28	41,41,41,41	0
57	MG	2a	1678	1/1	0.99	0.24	38,38,38,38	0
57	MG	2A	3676	1/1	0.99	0.17	44,44,44,44	0
57	MG	1A	3774	1/1	0.99	0.12	32,32,32,32	0
57	MG	2A	3022	1/1	0.99	0.51	45,45,45,45	0
57	MG	1P	202	1/1	0.99	0.16	27,27,27,27	0
57	MG	1A	3605	1/1	0.99	0.18	11,11,11,11	0
57	MG	1A	3520	1/1	0.99	0.21	26,26,26,26	0
57	MG	1A	3173	1/1	0.99	0.19	29,29,29,29	0
57	MG	1A	3639	1/1	0.99	0.15	18,18,18,18	0
57	MG	1A	3608	1/1	0.99	0.23	18,18,18,18	0
57	MG	1A	3102	1/1	0.99	0.11	25,25,25,25	0
57	MG	1E	304	1/1	0.99	0.19	25,25,25,25	0
57	MG	1A	3143	1/1	0.99	0.20	30,30,30,30	0
57	MG	1A	3332	1/1	0.99	0.20	30,30,30,30	0
57	MG	1A	4049	1/1	0.99	0.21	67,67,67,67	0
57	MG	1A	3088	1/1	0.99	0.23	17,17,17,17	0
57	MG	1A	3678	1/1	0.99	0.16	14,14,14,14	0
57	MG	2F	306	1/1	0.99	0.25	41,41,41,41	0
57	MG	1a	1783	1/1	0.99	0.16	27,27,27,27	0
57	MG	1A	3249	1/1	0.99	0.14	22,22,22,22	0
57	MG	1A	3555	1/1	0.99	0.23	30,30,30,30	0
57	MG	1A	3070	1/1	0.99	0.15	33,33,33,33	0
57	MG	2A	3330	1/1	0.99	0.75	49,49,49,49	0
57	MG	1A	3003	1/1	0.99	0.23	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3147	1/1	0.99	0.15	27,27,27,27	0
57	MG	1A	3315	1/1	0.99	0.30	25,25,25,25	0
57	MG	2A	3453	1/1	0.99	0.20	13,13,13,13	0
57	MG	2A	3043	1/1	0.99	0.18	19,19,19,19	0
57	MG	1F	301	1/1	0.99	0.17	32,32,32,32	0
57	MG	1A	3011	1/1	0.99	0.12	25,25,25,25	0
57	MG	1a	1792	1/1	0.99	0.18	45,45,45,45	0
57	MG	1A	3254	1/1	0.99	0.21	22,22,22,22	0
57	MG	1A	4101	1/1	0.99	0.27	29,29,29,29	0
57	MG	1F	305	1/1	0.99	0.14	34,34,34,34	0
57	MG	1A	3164	1/1	0.99	0.12	29,29,29,29	0
57	MG	1A	3135	1/1	0.99	0.26	25,25,25,25	0
57	MG	2a	1714	1/1	0.99	0.31	51,51,51,51	0
57	MG	1A	3183	1/1	0.99	0.23	16,16,16,16	0
57	MG	1A	3537	1/1	0.99	0.14	25,25,25,25	0
57	MG	1U	207	1/1	0.99	0.33	30,30,30,30	0
57	MG	1A	3278	1/1	0.99	0.22	26,26,26,26	0
57	MG	1A	3150	1/1	0.99	0.25	26,26,26,26	0
57	MG	1U	210	1/1	0.99	0.22	29,29,29,29	0
57	MG	1A	3136	1/1	0.99	0.22	26,26,26,26	0
57	MG	1A	4027	1/1	0.99	0.22	11,11,11,11	0
57	MG	1A	3393	1/1	0.99	0.18	33,33,33,33	0
57	MG	2A	3532	1/1	0.99	0.15	34,34,34,34	0
57	MG	1A	3838	1/1	0.99	0.17	27,27,27,27	0
57	MG	1A	4070	1/1	0.99	0.18	11,11,11,11	0
57	MG	23	101	1/1	0.99	0.16	45,45,45,45	0
57	MG	2A	3658	1/1	0.99	0.20	38,38,38,38	0
57	MG	2a	1659	1/1	0.99	0.14	42,42,42,42	0
57	MG	1A	3598	1/1	0.99	0.13	22,22,22,22	0
57	MG	2A	3597	1/1	0.99	0.08	48,48,48,48	0
60	ZN	19	102	1/1	0.99	0.19	34,34,34,34	0
60	ZN	1n	102	1/1	0.99	0.17	56,56,56,56	0
57	MG	1D	301	1/1	0.99	0.13	25,25,25,25	0
57	MG	1A	3125	1/1	0.99	0.13	32,32,32,32	0
57	MG	1A	3031	1/1	0.99	0.25	29,29,29,29	0
57	MG	2A	3009	1/1	0.99	0.15	34,34,34,34	0
57	MG	1A	3767	1/1	0.99	0.15	16,16,16,16	0
57	MG	1W	203	1/1	0.99	0.16	35,35,35,35	0
61	SF4	1d	501	8/8	0.99	0.15	56,57,62,66	0
57	MG	1A	3108	1/1	0.99	0.16	23,23,23,23	0
57	MG	1X	101	1/1	0.99	0.15	29,29,29,29	0
57	MG	1D	306	1/1	0.99	0.17	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1A	3048	1/1	0.99	0.18	17,17,17,17	0
57	MG	1A	3666	1/1	0.99	0.21	10,10,10,10	0
57	MG	1A	3027	1/1	1.00	0.21	25,25,25,25	0
60	ZN	16	102	1/1	1.00	0.22	39,39,39,39	0

6.5 Other polymers (i)

There are no such residues in this entry.