



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 15, 2024 – 10:05 PM EST

PDB ID : 8G2A
Title : Crystal structure of the A2503-C2,C8-dimethylated *Thermus thermophilus* 70S ribosome in complex with mRNA, aminoacylated A-site Phe-tRNA^{phe}, peptidyl P-site fMTHSMRC-tRNA^{met}, and deacylated E-site tRNA^{phe} at 2.45Å resolution
Authors : Aleksandrova, E.V.; Wu, K.J.Y.; Tresco, B.I.C.; Syroegin, E.A.; Killeavy, E.E.; Balasanyants, S.M.; Svetlov, M.S.; Gregory, S.T.; Atkinson, G.C.; Myers, A.G.; Polikanov, Y.S.
Deposited on : 2023-02-03
Resolution : 2.45 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)

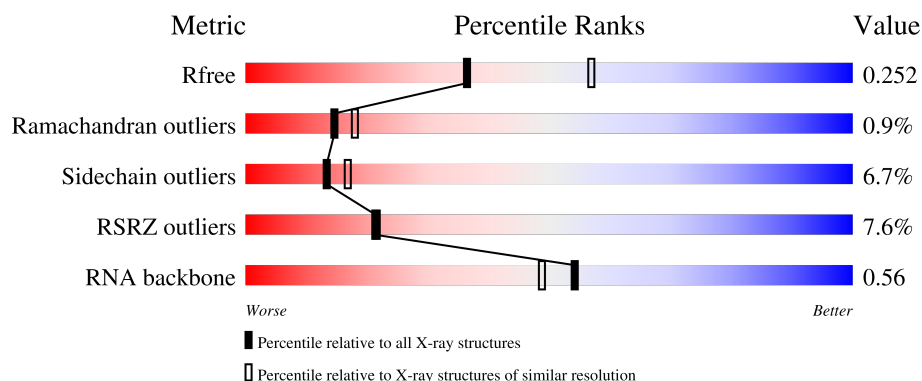
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


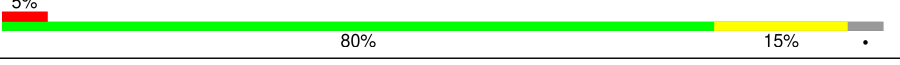
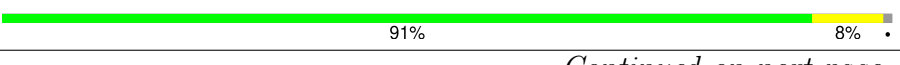
The reported resolution of this entry is 2.45 Å.

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}	164625	1096 (2.46-2.46)
Ramachandran outliers	177936	1170 (2.46-2.46)
Sidechain outliers	177891	1170 (2.46-2.46)
RSRZ outliers	164620	1096 (2.46-2.46)
RNA backbone	3690	1040 (2.76-2.16)

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

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

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

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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	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	
14	2S	112	

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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	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	

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Mol	Chain	Length	Quality of chain
27	25	60	<div> <div>3%</div> <div>92%</div> <div>7%</div> </div>
28	16	54	<div> <div>87%</div> <div>11%</div> </div>
28	26	54	<div> <div>89%</div> <div>9%</div> </div>
29	17	49	<div> <div>8%</div> <div>90%</div> <div>8%</div> </div>
29	27	49	<div> <div>12%</div> <div>90%</div> <div>8%</div> </div>
30	18	65	<div> <div>91%</div> <div>8%</div> </div>
30	28	65	<div> <div>92%</div> <div>6%</div> </div>
31	19	37	<div> <div>100%</div> </div>
31	29	37	<div> <div>11%</div> <div>100%</div> </div>
32	1a	1521	<div> <div>4%</div> <div>82%</div> <div>16%</div> </div>
32	2a	1521	<div> <div>5%</div> <div>81%</div> <div>17%</div> </div>
33	1b	256	<div> <div>15%</div> <div>78%</div> <div>12%</div> <div>10%</div> </div>
33	2b	256	<div> <div>32%</div> <div>78%</div> <div>12%</div> <div>10%</div> </div>
34	1c	239	<div> <div>5%</div> <div>80%</div> <div>6%</div> <div>14%</div> </div>
34	2c	239	<div> <div>20%</div> <div>78%</div> <div>8%</div> <div>14%</div> </div>
35	1d	209	<div> <div>6%</div> <div>89%</div> <div>10%</div> </div>
35	2d	209	<div> <div>6%</div> <div>92%</div> <div>7%</div> </div>
36	1e	162	<div> <div>5%</div> <div>84%</div> <div>7%</div> <div>9%</div> </div>
36	2e	162	<div> <div>5%</div> <div>84%</div> <div>7%</div> <div>9%</div> </div>
37	1f	101	<div> <div>3%</div> <div>95%</div> </div>
37	2f	101	<div> <div>%</div> <div>92%</div> <div>7%</div> </div>
38	1g	156	<div> <div>12%</div> <div>89%</div> <div>10%</div> </div>
38	2g	156	<div> <div>12%</div> <div>88%</div> <div>12%</div> </div>
39	1h	138	<div> <div>4%</div> <div>96%</div> </div>
39	2h	138	<div> <div>4%</div> <div>93%</div> <div>7%</div> </div>

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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	
53	1v	24	
53	2v	24	
54	1w	76	
54	2w	76	
55	1x	77	
55	2x	77	
56	1z	7	
56	2z	7	
57	1y	76	
57	2y	76	

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
58	MG	1A	3155	-	-	-	X
58	MG	1A	3260	-	-	-	X
58	MG	2A	3217	-	-	-	X
58	MG	2A	3265	-	-	-	X
58	MG	2A	3308	-	-	-	X
58	MG	2a	1721	-	-	-	X
58	MG	2x	106	-	-	-	X

2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 300665 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
			61853	27532	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60323	26849	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	202	Total	C	N	O	S	0	0	0
			1583	1009	297	275	2			
5	2F	202	Total	C	N	O	S	0	0	0
			1579	1007	296	274	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1G	181	Total	C	N	O	S	0	0	0
			1423	913	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1428	913	258	253	4			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 53 is a RNA chain called 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 A-site Aminoacylated Phe-tRNA^{phe}.

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

- Molecule 55 is a RNA chain called P-site Peptidyl-tRNA fMTHSMRC-tRNA^{met} RNA-part.

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 protein called P-site Peptidyl-tRNA fMTHSMRC-tRNA^{met} Peptide-part.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	1z	7	Total	C	N	O	S	0	0	0
			58	33	12	10	3			
56	2z	7	Total	C	N	O	S	0	0	0
			58	33	12	10	3			

- Molecule 57 is a RNA chain called E-site Deacylated tRNA^{phe}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
57	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
57	2y	73	Total	C	N	O	P	S	0	0	0
			1565	698	283	510	73	1			

- Molecule 58 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1A	1111	Total	Mg	0	0
			1111	1111		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1B	37	Total 37	Mg 37	0	0
58	1D	11	Total 11	Mg 11	0	0
58	1E	13	Total 13	Mg 13	0	0
58	1F	15	Total 15	Mg 15	0	0
58	1G	4	Total 4	Mg 4	0	0
58	1H	1	Total 1	Mg 1	0	0
58	1I	1	Total 1	Mg 1	0	0
58	1N	4	Total 4	Mg 4	0	0
58	1O	6	Total 6	Mg 6	0	0
58	1P	6	Total 6	Mg 6	0	0
58	1Q	7	Total 7	Mg 7	0	0
58	1R	6	Total 6	Mg 6	0	0
58	1S	3	Total 3	Mg 3	0	0
58	1T	4	Total 4	Mg 4	0	0
58	1U	14	Total 14	Mg 14	0	0
58	1V	8	Total 8	Mg 8	0	0
58	1W	6	Total 6	Mg 6	0	0
58	1X	6	Total 6	Mg 6	0	0
58	1Y	2	Total 2	Mg 2	0	0
58	1Z	3	Total 3	Mg 3	0	0
58	10	12	Total 12	Mg 12	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	11	5	Total 5	Mg 5	0	0
58	12	2	Total 2	Mg 2	0	0
58	13	3	Total 3	Mg 3	0	0
58	14	1	Total 1	Mg 1	0	0
58	15	8	Total 8	Mg 8	0	0
58	16	2	Total 2	Mg 2	0	0
58	17	4	Total 4	Mg 4	0	0
58	18	4	Total 4	Mg 4	0	0
58	19	1	Total 1	Mg 1	0	0
58	1a	226	Total 226	Mg 226	0	0
58	1b	1	Total 1	Mg 1	0	0
58	1d	1	Total 1	Mg 1	0	0
58	1e	2	Total 2	Mg 2	0	0
58	1f	1	Total 1	Mg 1	0	0
58	1k	1	Total 1	Mg 1	0	0
58	1l	2	Total 2	Mg 2	0	0
58	1m	1	Total 1	Mg 1	0	0
58	1n	3	Total 3	Mg 3	0	0
58	1r	1	Total 1	Mg 1	0	0
58	1t	1	Total 1	Mg 1	0	0
58	1v	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1w	8	Total 8	Mg 8	0	0
58	1x	14	Total 14	Mg 14	0	0
58	2A	826	Total 826	Mg 826	0	0
58	2B	20	Total 20	Mg 20	0	0
58	2D	6	Total 6	Mg 6	0	0
58	2E	9	Total 9	Mg 9	0	0
58	2F	8	Total 8	Mg 8	0	0
58	2G	1	Total 1	Mg 1	0	0
58	2O	1	Total 1	Mg 1	0	0
58	2P	2	Total 2	Mg 2	0	0
58	2Q	2	Total 2	Mg 2	0	0
58	2R	2	Total 2	Mg 2	0	0
58	2T	4	Total 4	Mg 4	0	0
58	2U	2	Total 2	Mg 2	0	0
58	2V	2	Total 2	Mg 2	0	0
58	2W	2	Total 2	Mg 2	0	0
58	2X	2	Total 2	Mg 2	0	0
58	2Y	1	Total 1	Mg 1	0	0
58	20	2	Total 2	Mg 2	0	0
58	21	1	Total 1	Mg 1	0	0
58	23	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	25	2	Total Mg 2 2	0	0
58	26	2	Total Mg 2 2	0	0
58	27	4	Total Mg 4 4	0	0
58	28	3	Total Mg 3 3	0	0
58	2a	241	Total Mg 241 241	0	0
58	2d	2	Total Mg 2 2	0	0
58	2e	2	Total Mg 2 2	0	0
58	2f	2	Total Mg 2 2	0	0
58	2j	1	Total Mg 1 1	0	0
58	2l	4	Total Mg 4 4	0	0
58	2n	2	Total Mg 2 2	0	0
58	2p	1	Total Mg 1 1	0	0
58	2q	1	Total Mg 1 1	0	0
58	2t	1	Total Mg 1 1	0	0
58	2v	3	Total Mg 3 3	0	0
58	2w	3	Total Mg 3 3	0	0
58	2x	8	Total Mg 8 8	0	0

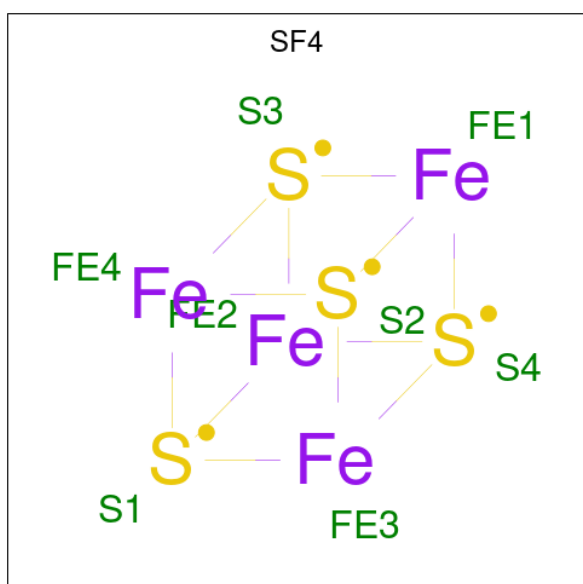
- Molecule 59 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1A	1	Total K 1 1	0	0
59	2A	1	Total K 1 1	0	0

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1Y	1	Total	Zn	0	0
			1	1		
60	14	1	Total	Zn	0	0
			1	1		
60	15	1	Total	Zn	0	0
			1	1		
60	16	1	Total	Zn	0	0
			1	1		
60	19	1	Total	Zn	0	0
			1	1		
60	1n	1	Total	Zn	0	0
			1	1		
60	2Y	1	Total	Zn	0	0
			1	1		
60	24	1	Total	Zn	0	0
			1	1		
60	25	1	Total	Zn	0	0
			1	1		
60	26	1	Total	Zn	0	0
			1	1		
60	29	1	Total	Zn	0	0
			1	1		
60	2n	1	Total	Zn	0	0
			1	1		

- Molecule 61 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



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

- Molecule 62 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	1A	2181	Total	O	0	0
			2181	2181		
62	1B	62	Total	O	0	0
			62	62		
62	1D	28	Total	O	0	0
			28	28		
62	1E	27	Total	O	0	0
			27	27		
62	1F	16	Total	O	0	0
			16	16		
62	1G	2	Total	O	0	0
			2	2		
62	1H	2	Total	O	0	0
			2	2		
62	1N	7	Total	O	0	0
			7	7		
62	1O	5	Total	O	0	0
			5	5		
62	1P	21	Total	O	0	0
			21	21		
62	1Q	12	Total	O	0	0
			12	12		
62	1R	12	Total	O	0	0
			12	12		
62	1S	4	Total	O	0	0
			4	4		
62	1T	11	Total	O	0	0
			11	11		
62	1U	13	Total	O	0	0
			13	13		
62	1V	9	Total	O	0	0
			9	9		
62	1W	9	Total	O	0	0
			9	9		
62	1X	6	Total	O	0	0
			6	6		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	1Y	3	Total 3	O 3	0	0
62	1Z	2	Total 2	O 2	0	0
62	10	17	Total 17	O 17	0	0
62	11	8	Total 8	O 8	0	0
62	12	3	Total 3	O 3	0	0
62	13	4	Total 4	O 4	0	0
62	14	1	Total 1	O 1	0	0
62	15	6	Total 6	O 6	0	0
62	16	3	Total 3	O 3	0	0
62	17	9	Total 9	O 9	0	0
62	18	11	Total 11	O 11	0	0
62	1a	436	Total 436	O 436	0	0
62	1b	1	Total 1	O 1	0	0
62	1d	3	Total 3	O 3	0	0
62	1f	3	Total 3	O 3	0	0
62	1g	1	Total 1	O 1	0	0
62	1j	3	Total 3	O 3	0	0
62	1l	5	Total 5	O 5	0	0
62	1m	1	Total 1	O 1	0	0
62	1n	2	Total 2	O 2	0	0
62	1o	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	1p	1	Total 1	O 1	0	0
62	1q	2	Total 2	O 2	0	0
62	1r	2	Total 2	O 2	0	0
62	1t	1	Total 1	O 1	0	0
62	1v	4	Total 4	O 4	0	0
62	1w	12	Total 12	O 12	0	0
62	1x	12	Total 12	O 12	0	0
62	1z	5	Total 5	O 5	0	0
62	1y	1	Total 1	O 1	0	0
62	2A	1216	Total 1216	O 1216	0	0
62	2B	20	Total 20	O 20	0	0
62	2D	18	Total 18	O 18	0	0
62	2E	18	Total 18	O 18	0	0
62	2F	14	Total 14	O 14	0	0
62	2N	1	Total 1	O 1	0	0
62	2O	2	Total 2	O 2	0	0
62	2P	12	Total 12	O 12	0	0
62	2Q	2	Total 2	O 2	0	0
62	2R	2	Total 2	O 2	0	0
62	2T	6	Total 6	O 6	0	0
62	2U	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	2W	2	Total 2	O 2	0	0
62	2X	1	Total 1	O 1	0	0
62	2Y	2	Total 2	O 2	0	0
62	20	1	Total 1	O 1	0	0
62	21	4	Total 4	O 4	0	0
62	23	1	Total 1	O 1	0	0
62	27	3	Total 3	O 3	0	0
62	28	3	Total 3	O 3	0	0
62	29	1	Total 1	O 1	0	0
62	2a	357	Total 357	O 357	0	0
62	2c	1	Total 1	O 1	0	0
62	2d	4	Total 4	O 4	0	0
62	2e	3	Total 3	O 3	0	0
62	2f	3	Total 3	O 3	0	0
62	2j	2	Total 2	O 2	0	0
62	2l	4	Total 4	O 4	0	0
62	2n	2	Total 2	O 2	0	0
62	2o	1	Total 1	O 1	0	0
62	2p	2	Total 2	O 2	0	0
62	2q	1	Total 1	O 1	0	0
62	2r	2	Total 2	O 2	0	0

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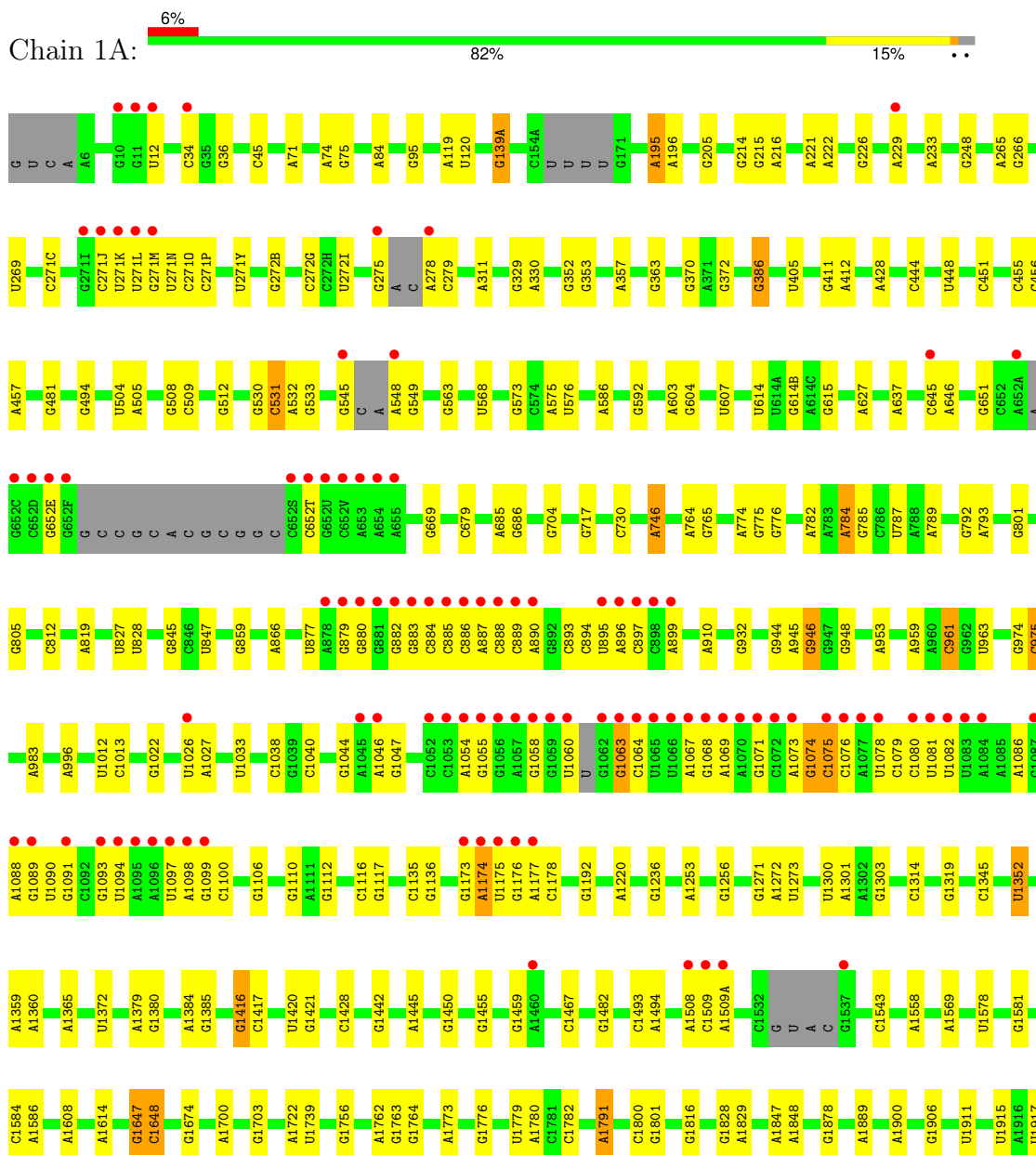
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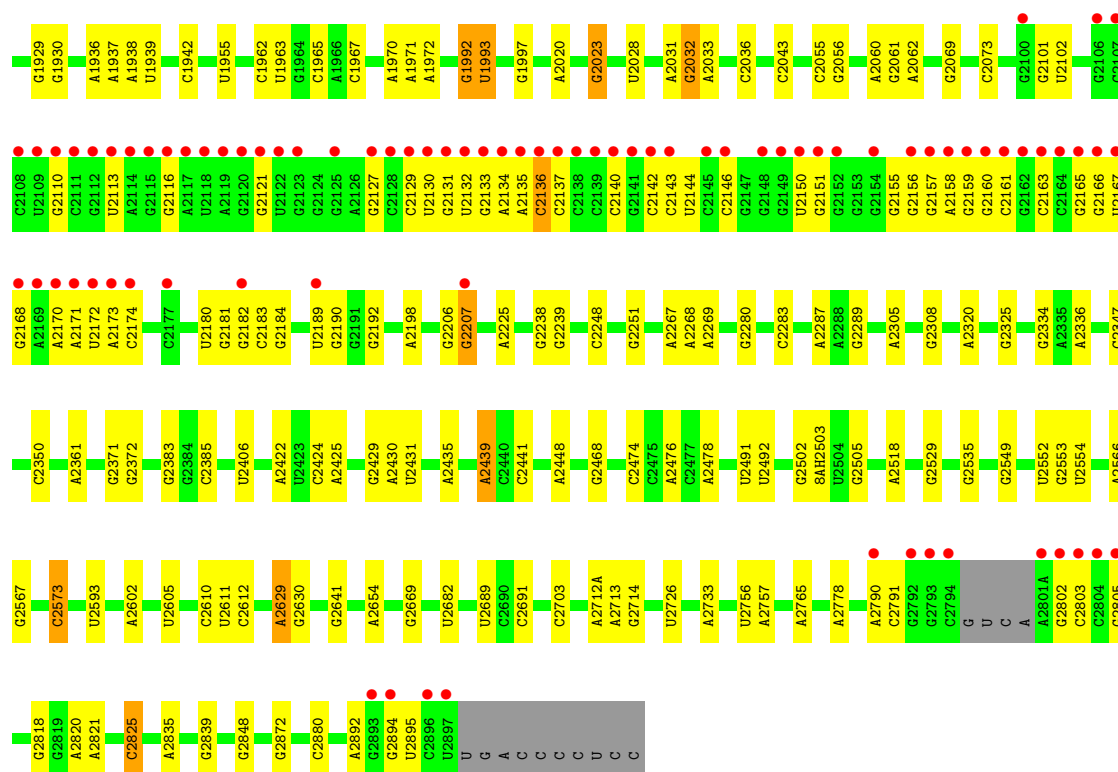
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
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62	2v	3	Total 3	O 3	0	0
62	2w	8	Total 8	O 8	0	0
62	2x	3	Total 3	O 3	0	0
62	2z	1	Total 1	O 1	0	0

3 Residue-property plots [i](#)

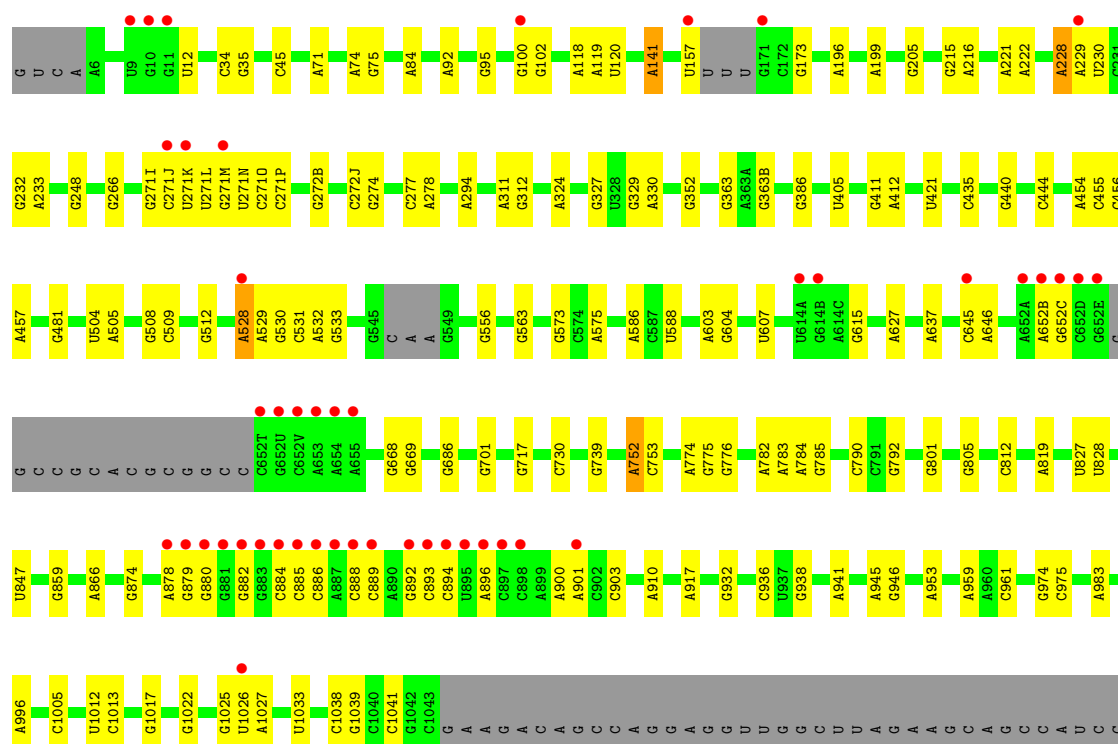
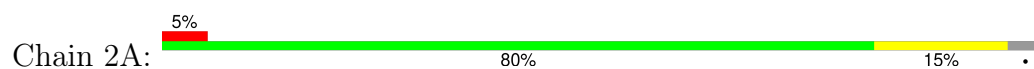
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

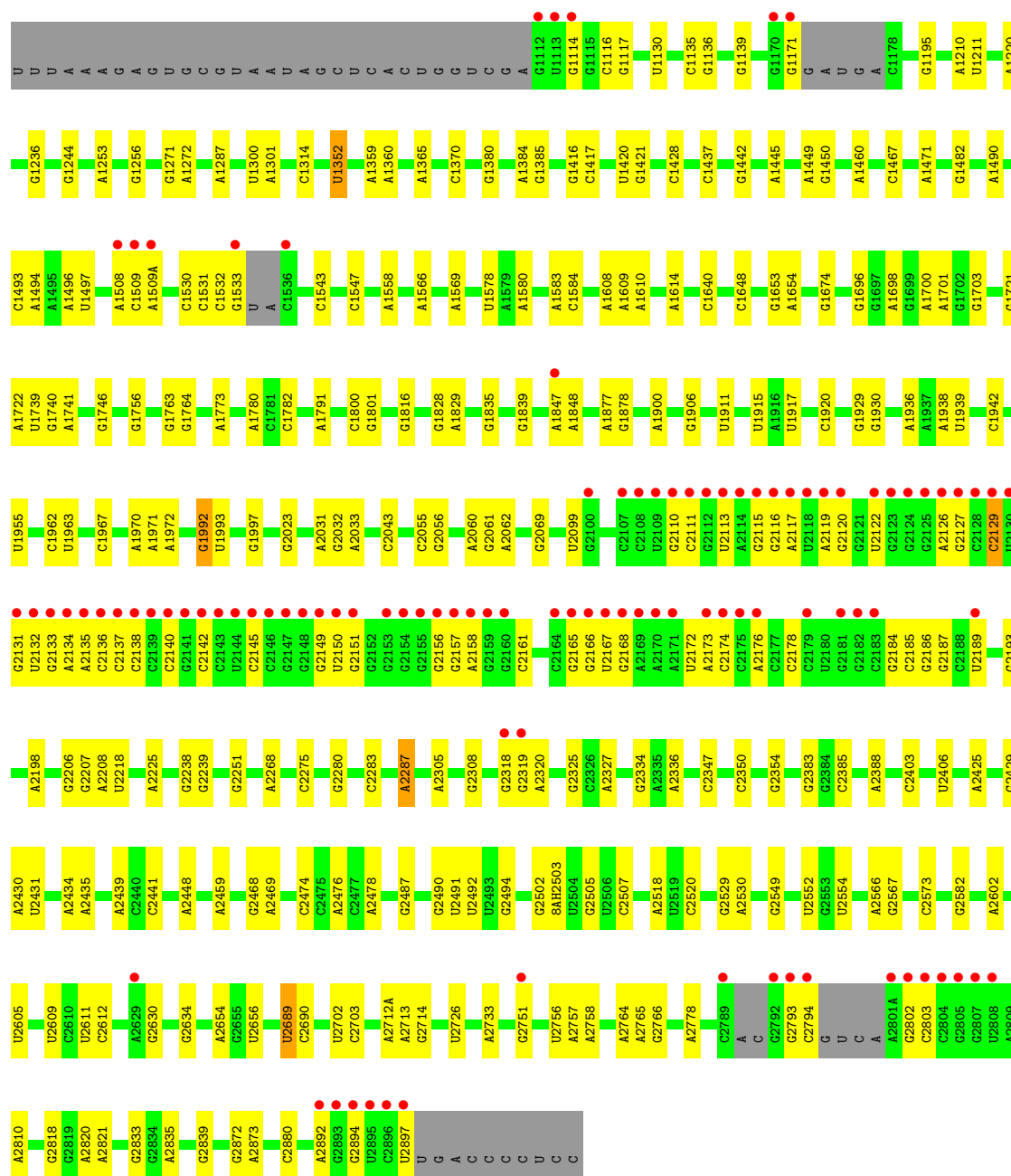
• Molecule 1: 23S Ribosomal RNA





• Molecule 1: 23S Ribosomal RNA






- Molecule 2: 5S Ribosomal RNA

Chain 1B:  91% 8%



- Molecule 2: 5S Ribosomal RNA

Chain 2B:  78% 21%



- Molecule 3: 50S ribosomal protein L2



- Molecule 3: 50S ribosomal protein L2



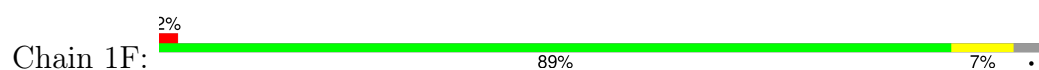
- Molecule 4: 50S ribosomal protein L3



- Molecule 4: 50S ribosomal protein L3



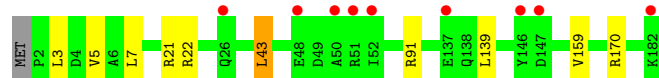
- Molecule 5: 50S ribosomal protein L4



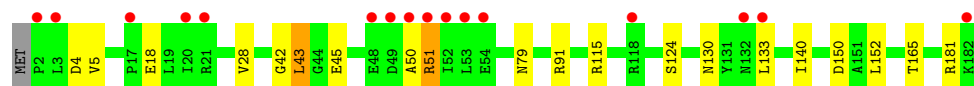
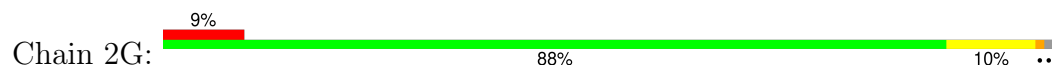
- Molecule 5: 50S ribosomal protein L4



- Molecule 6: 50S ribosomal protein L5



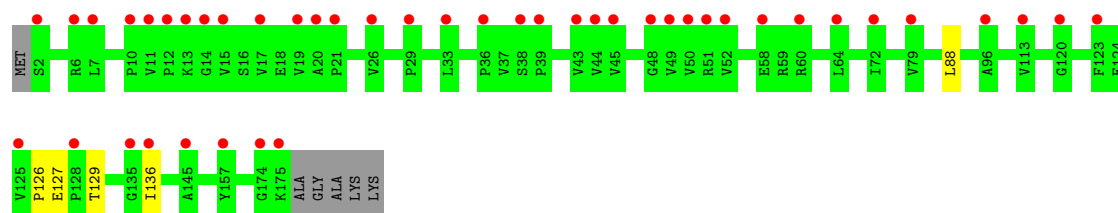
- Molecule 6: 50S ribosomal protein L5



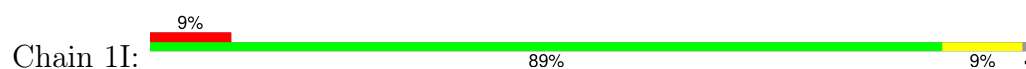
- Molecule 7: 50S ribosomal protein L6



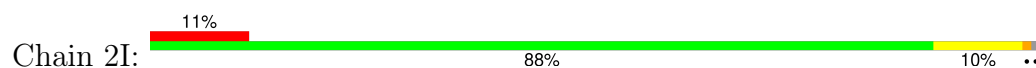
- Molecule 7: 50S ribosomal protein L6



- Molecule 8: 50S ribosomal protein L9



- Molecule 8: 50S ribosomal protein L9

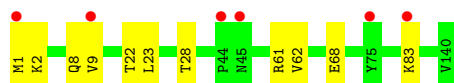


- Molecule 9: 50S ribosomal protein L13

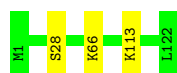




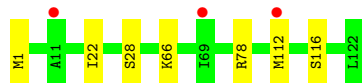
- Molecule 9: 50S ribosomal protein L13



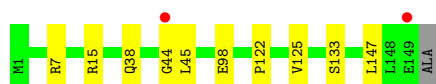
- Molecule 10: 50S ribosomal protein L14



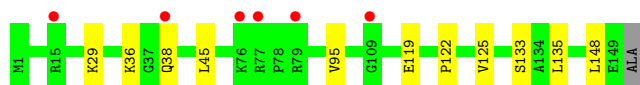
- Molecule 10: 50S ribosomal protein L14



- Molecule 11: 50S ribosomal protein L15



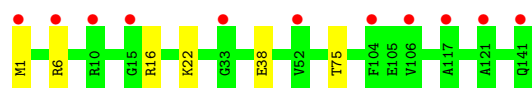
- Molecule 11: 50S ribosomal protein L15



- Molecule 12: 50S ribosomal protein L16



- Molecule 12: 50S ribosomal protein L16



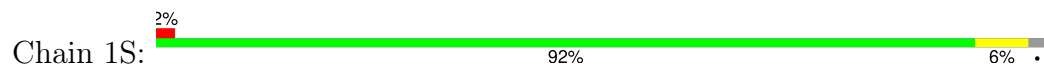
- Molecule 13: 50S ribosomal protein L17



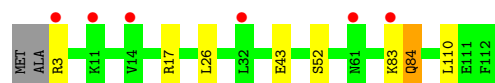
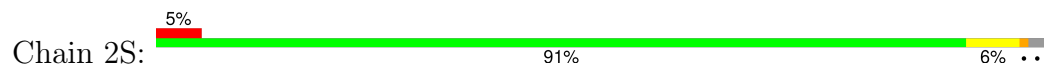
- Molecule 13: 50S ribosomal protein L17



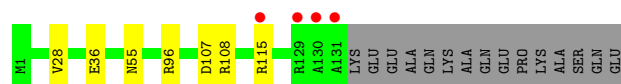
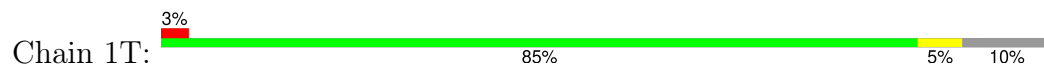
- Molecule 14: 50S ribosomal protein L18



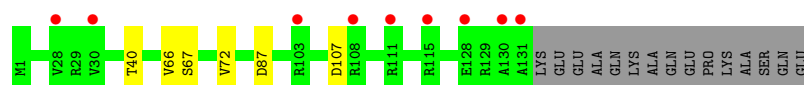
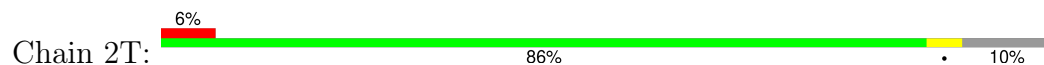
- Molecule 14: 50S ribosomal protein L18



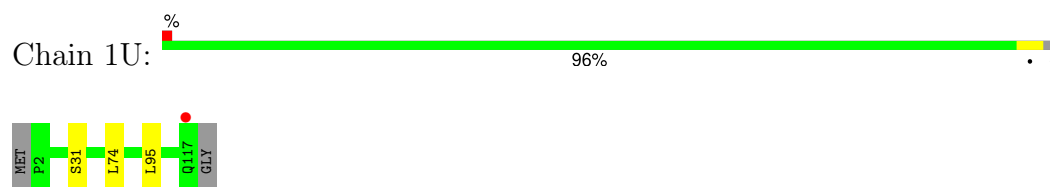
- Molecule 15: 50S ribosomal protein L19



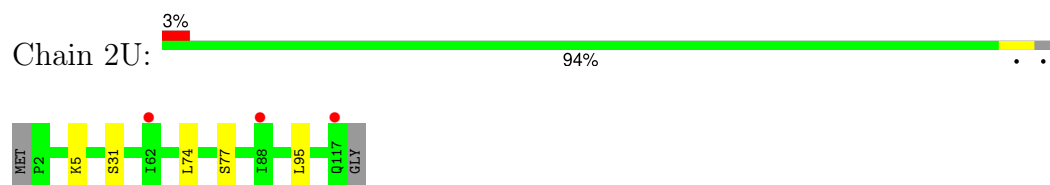
- Molecule 15: 50S ribosomal protein L19



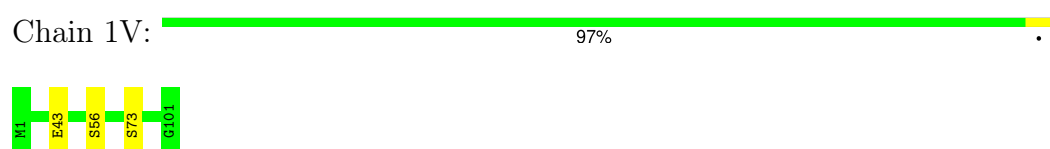
- Molecule 16: 50S ribosomal protein L20



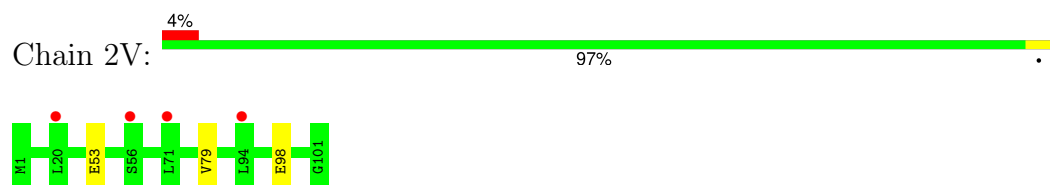
- Molecule 16: 50S ribosomal protein L20



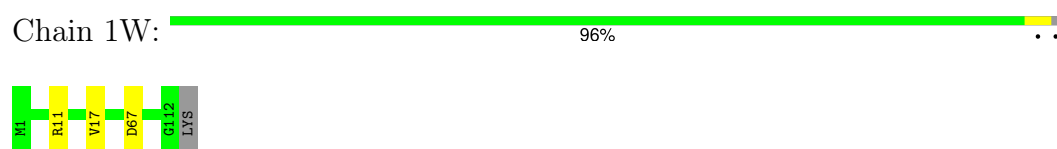
- Molecule 17: 50S ribosomal protein L21



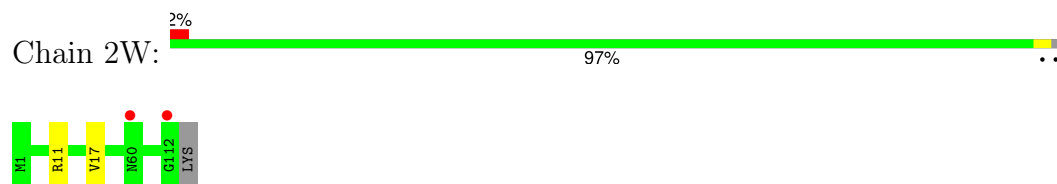
- Molecule 17: 50S ribosomal protein L21



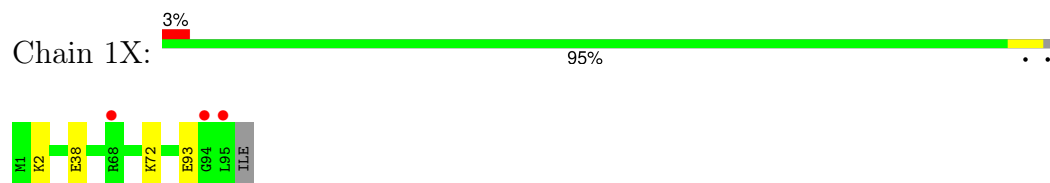
- Molecule 18: 50S ribosomal protein L22



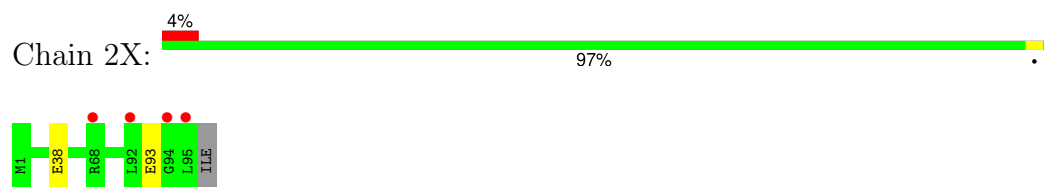
- Molecule 18: 50S ribosomal protein L22



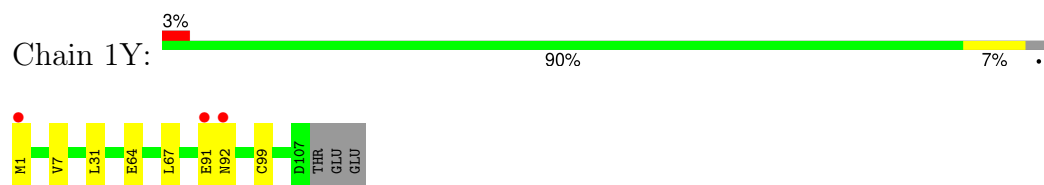
- Molecule 19: 50S ribosomal protein L23



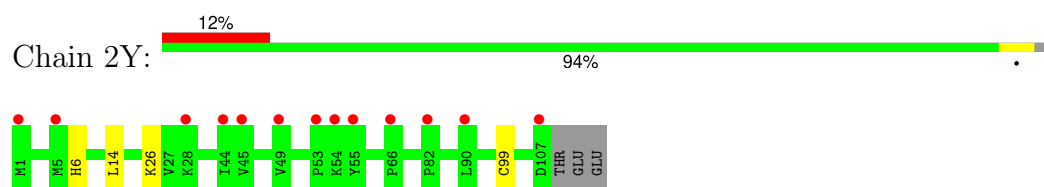
- Molecule 19: 50S ribosomal protein L23



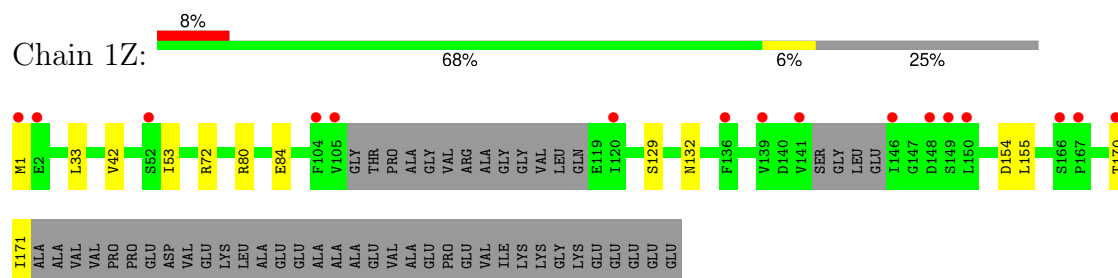
- Molecule 20: 50S ribosomal protein L24



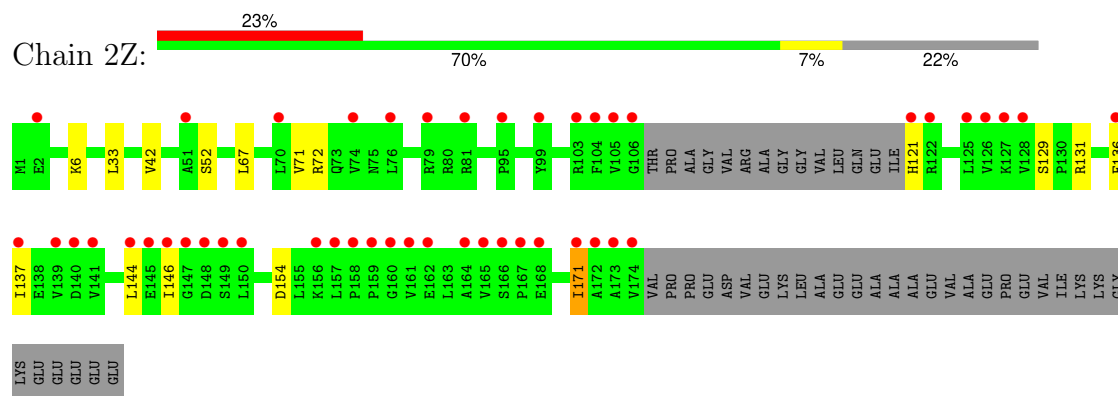
- Molecule 20: 50S ribosomal protein L24



- Molecule 21: 50S ribosomal protein L25



- Molecule 21: 50S ribosomal protein L25



- Molecule 22: 50S ribosomal protein L27

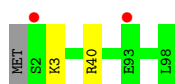




- Molecule 22: 50S ribosomal protein L27



- Molecule 23: 50S ribosomal protein L28



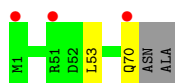
- Molecule 23: 50S ribosomal protein L28



- Molecule 24: 50S ribosomal protein L29



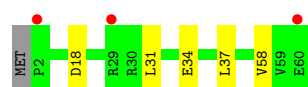
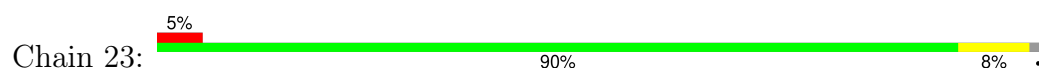
- Molecule 24: 50S ribosomal protein L29



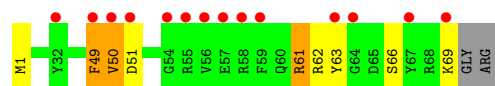
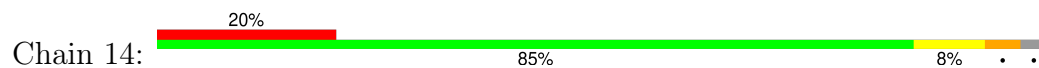
- Molecule 25: 50S ribosomal protein L30



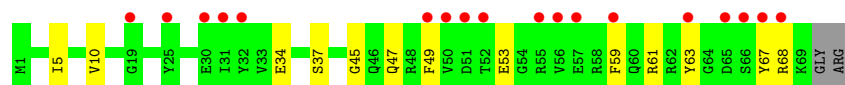
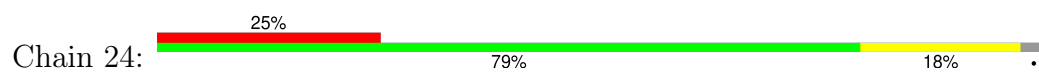
- Molecule 25: 50S ribosomal protein L30



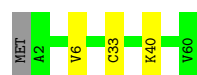
- Molecule 26: 50S ribosomal protein L31



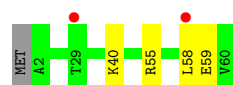
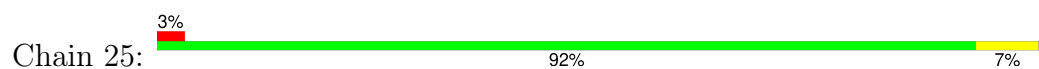
- Molecule 26: 50S ribosomal protein L31



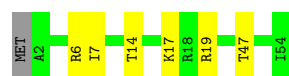
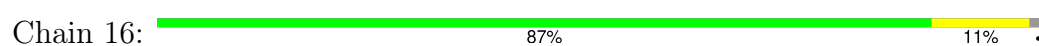
- Molecule 27: 50S ribosomal protein L32



- Molecule 27: 50S ribosomal protein L32



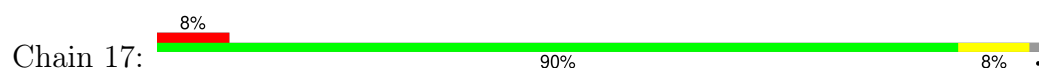
- Molecule 28: 50S ribosomal protein L33



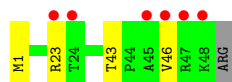
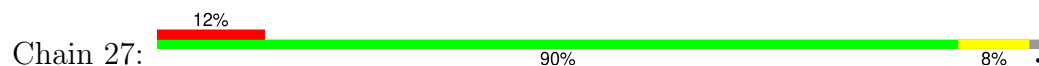
- Molecule 28: 50S ribosomal protein L33



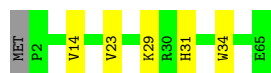
- Molecule 29: 50S ribosomal protein L34



- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



- Molecule 30: 50S ribosomal protein L35

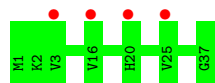


- Molecule 31: 50S ribosomal protein L36

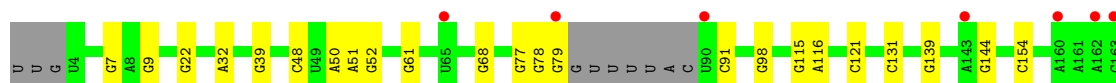
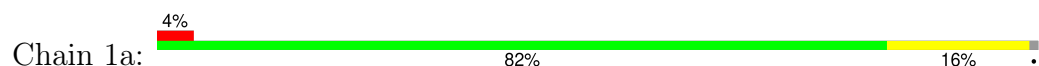


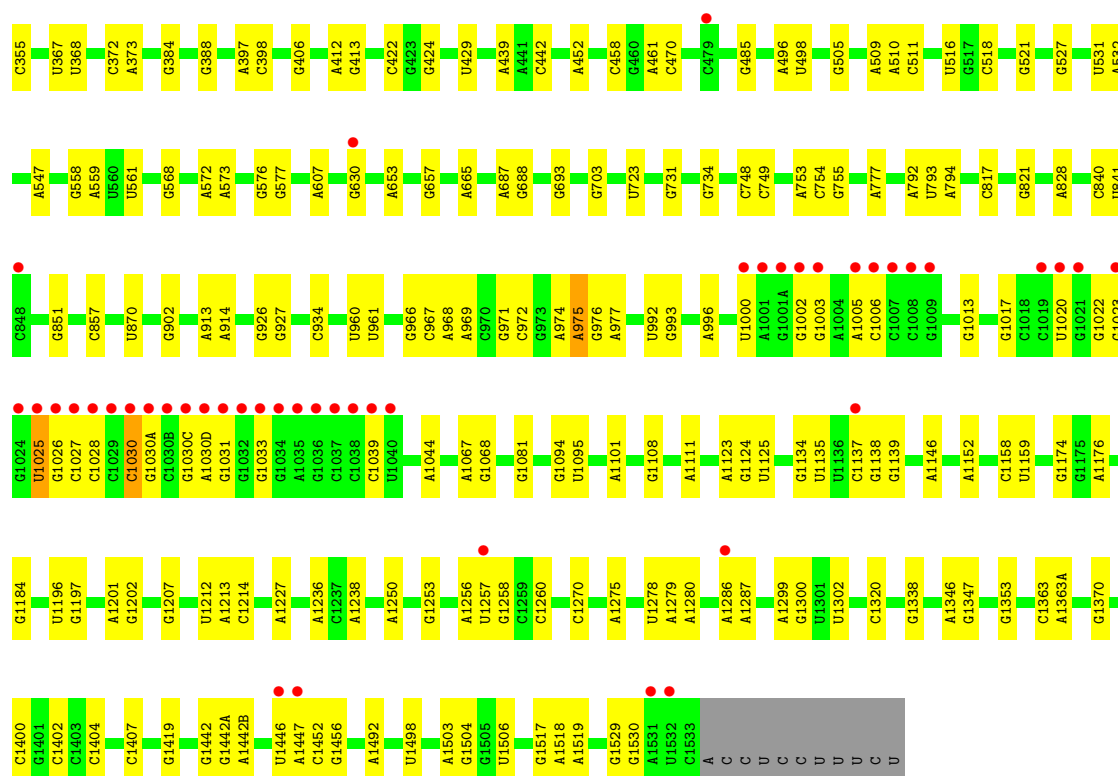
There are no outlier residues recorded for this chain.

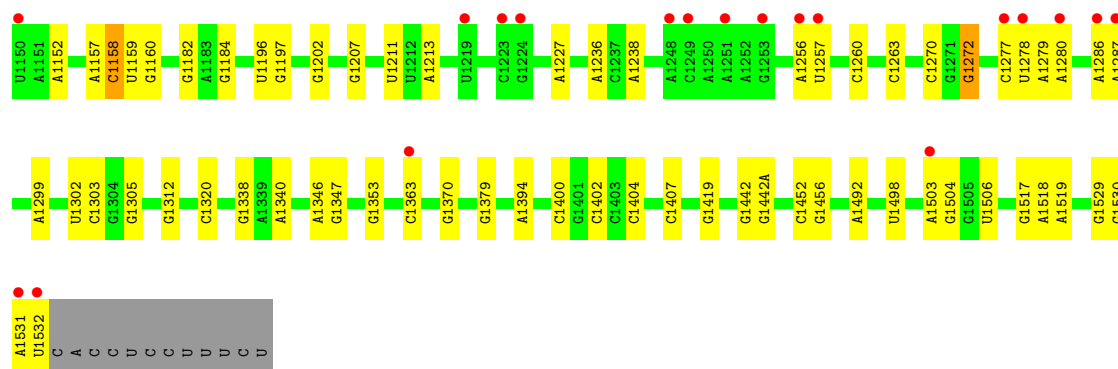
- Molecule 31: 50S ribosomal protein L36



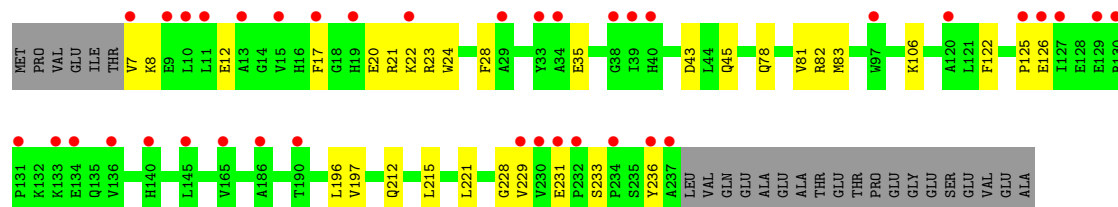
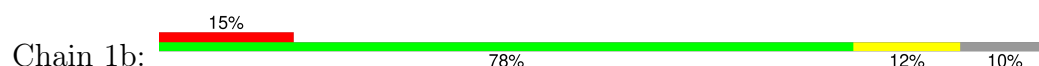
- Molecule 32: 16S Ribosomal RNA



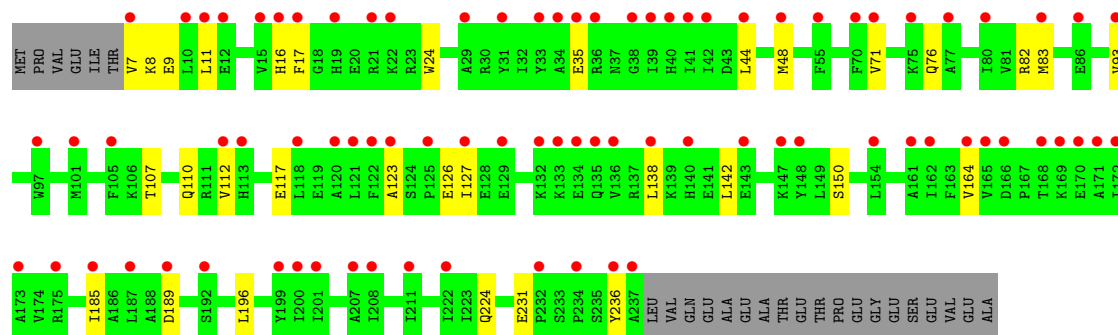
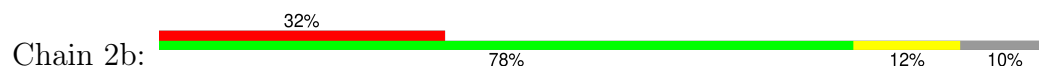




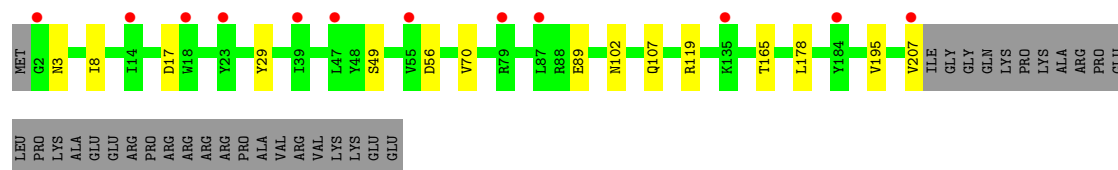
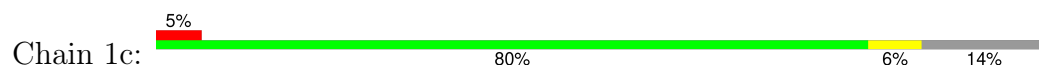
- Molecule 33: 30S ribosomal protein S2



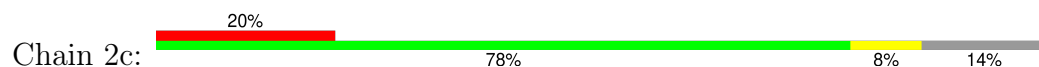
- Molecule 33: 30S ribosomal protein S2

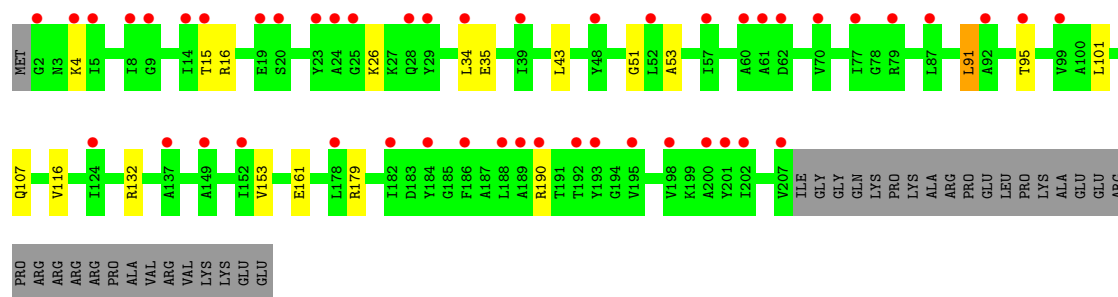


- Molecule 34: 30S ribosomal protein S3

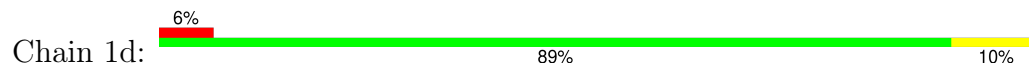


- Molecule 34: 30S ribosomal protein S3





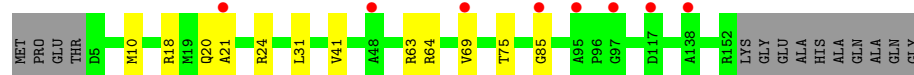
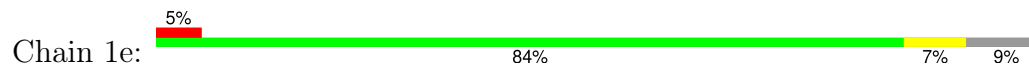
- Molecule 35: 30S ribosomal protein S4



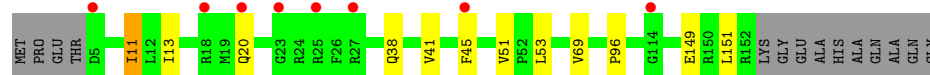
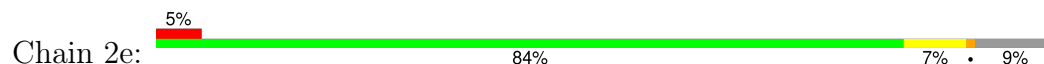
- Molecule 35: 30S ribosomal protein S4



- Molecule 36: 30S ribosomal protein S5



- Molecule 36: 30S ribosomal protein S5



- Molecule 37: 30S ribosomal protein S6

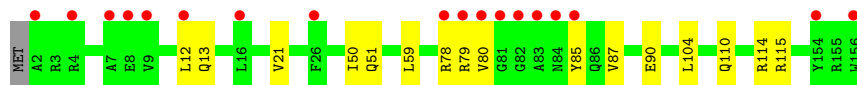
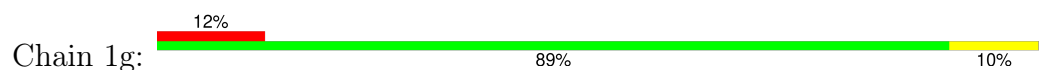


- Molecule 37: 30S ribosomal protein S6

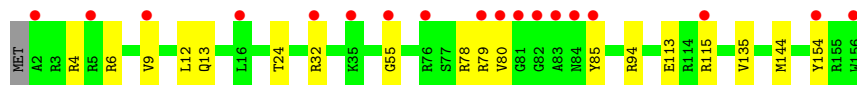
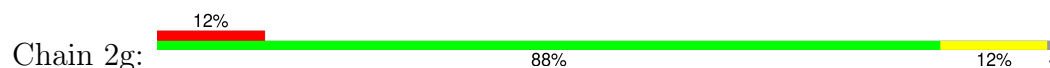




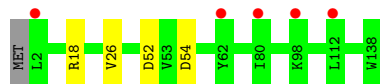
- Molecule 38: 30S ribosomal protein S7



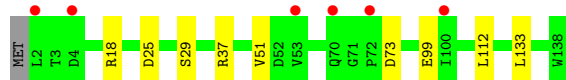
- Molecule 38: 30S ribosomal protein S7



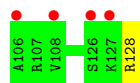
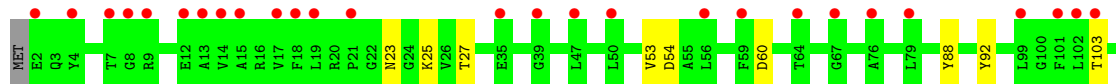
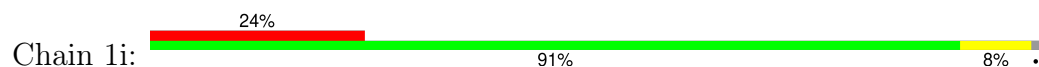
- Molecule 39: 30S ribosomal protein S8



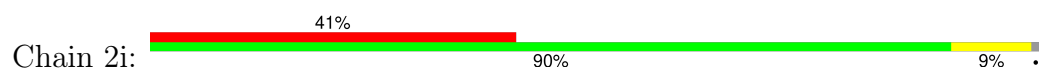
- Molecule 39: 30S ribosomal protein S8

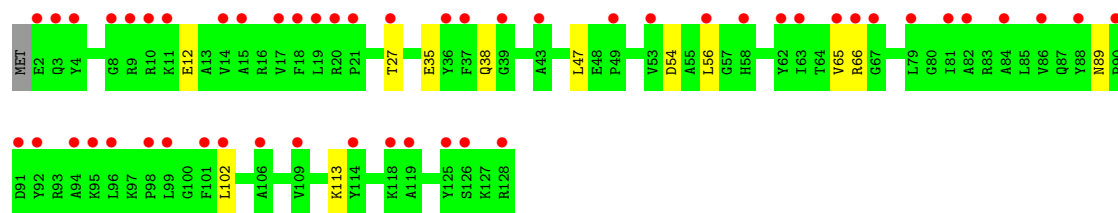


- Molecule 40: 30S ribosomal protein S9

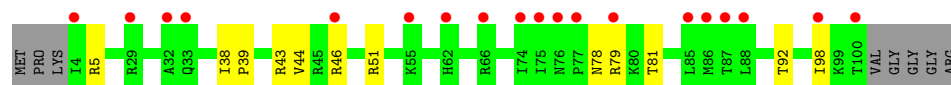
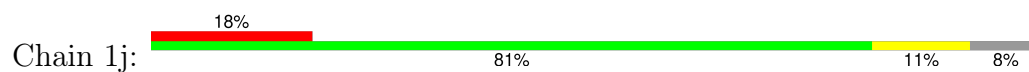


- Molecule 40: 30S ribosomal protein S9

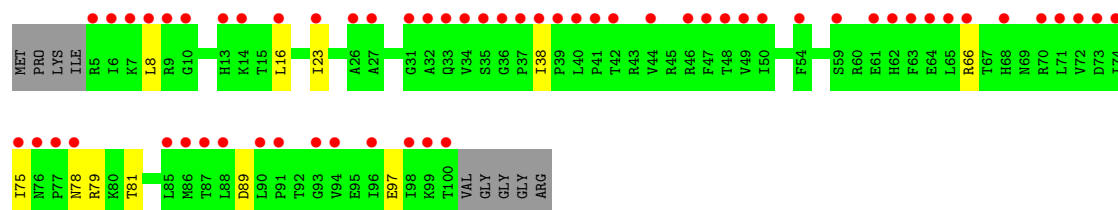
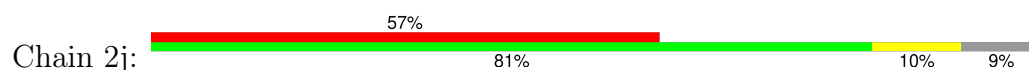




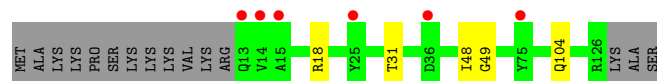
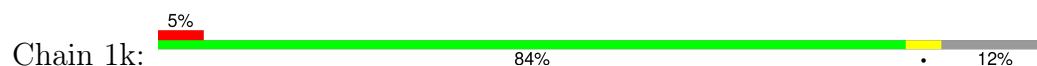
• Molecule 41: 30S ribosomal protein S10



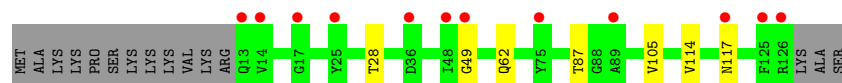
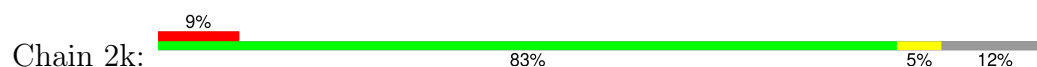
• Molecule 41: 30S ribosomal protein S10



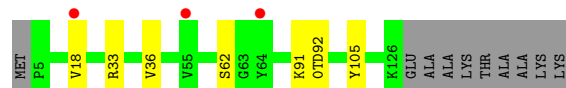
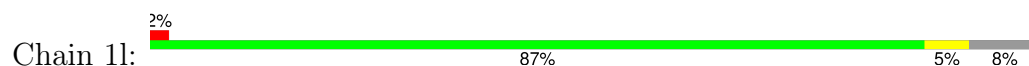
• Molecule 42: 30S ribosomal protein S11



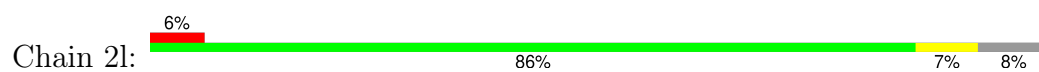
• Molecule 42: 30S ribosomal protein S11



• Molecule 43: 30S ribosomal protein S12



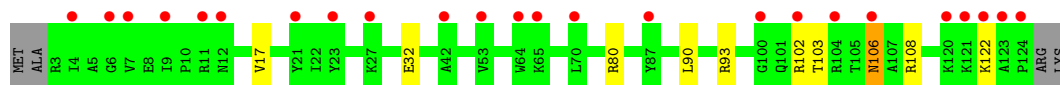
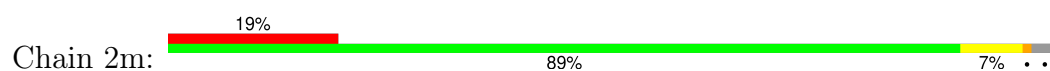
• Molecule 43: 30S ribosomal protein S12



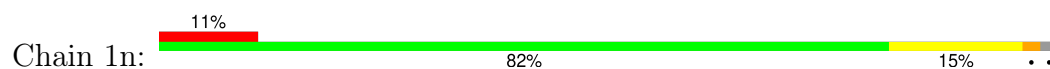
- Molecule 44: 30S ribosomal protein S13



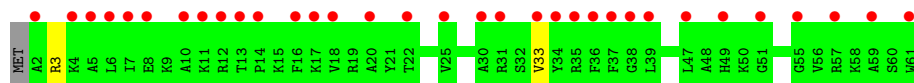
- Molecule 44: 30S ribosomal protein S13



- Molecule 45: 30S ribosomal protein S14 type Z



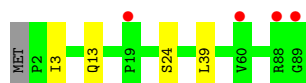
- Molecule 45: 30S ribosomal protein S14 type Z



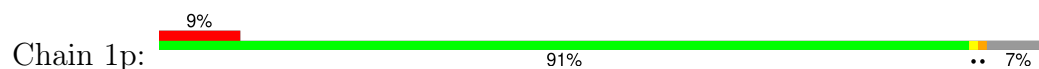
- Molecule 46: 30S ribosomal protein S15



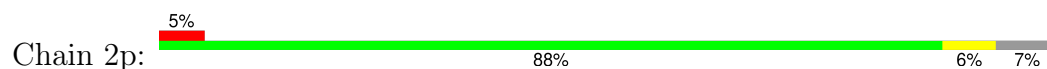
- Molecule 46: 30S ribosomal protein S15



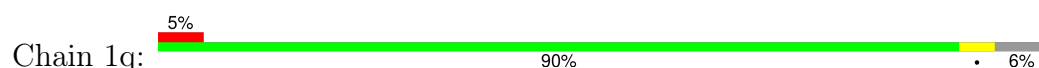
• Molecule 47: 30S ribosomal protein S16



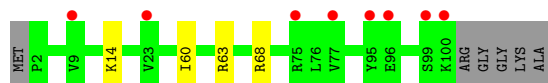
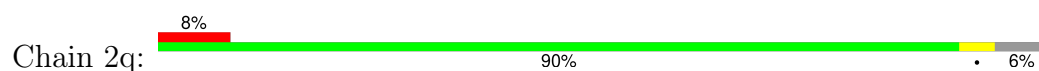
• Molecule 47: 30S ribosomal protein S16



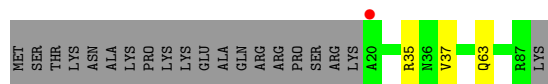
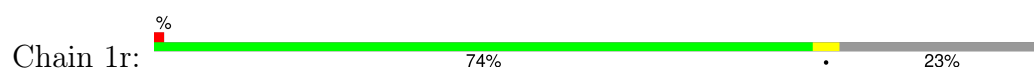
• Molecule 48: 30S ribosomal protein S17



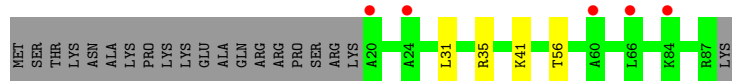
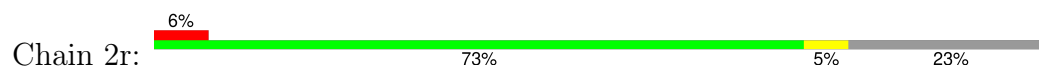
• Molecule 48: 30S ribosomal protein S17



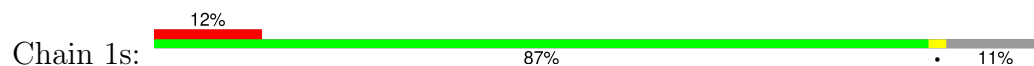
• Molecule 49: 30S ribosomal protein S18

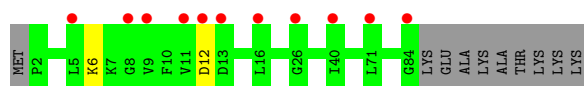


• Molecule 49: 30S ribosomal protein S18

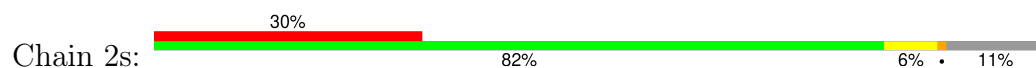


• Molecule 50: 30S ribosomal protein S19

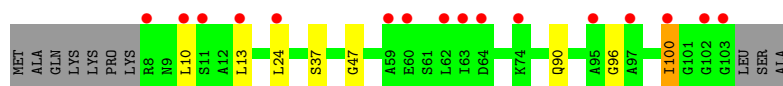
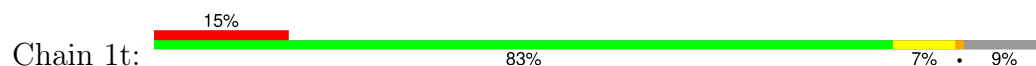




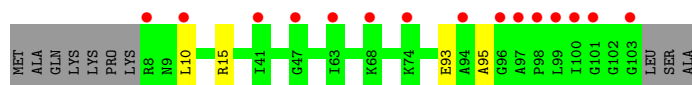
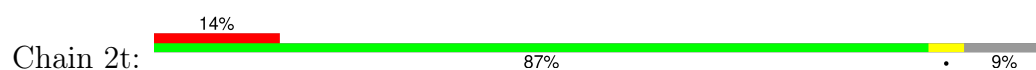
- Molecule 50: 30S ribosomal protein S19



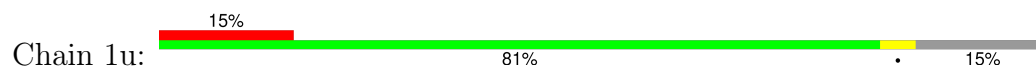
- Molecule 51: 30S ribosomal protein S20



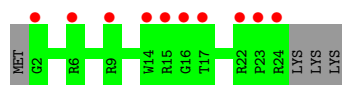
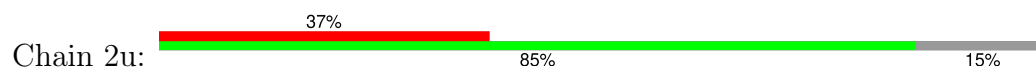
- Molecule 51: 30S ribosomal protein S20



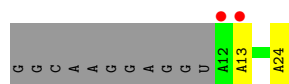
- Molecule 52: 30S ribosomal protein Thx



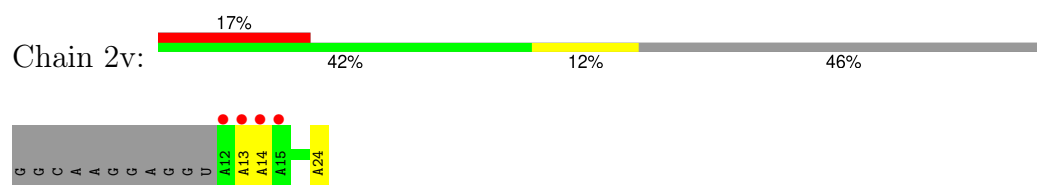
- Molecule 52: 30S ribosomal protein Thx



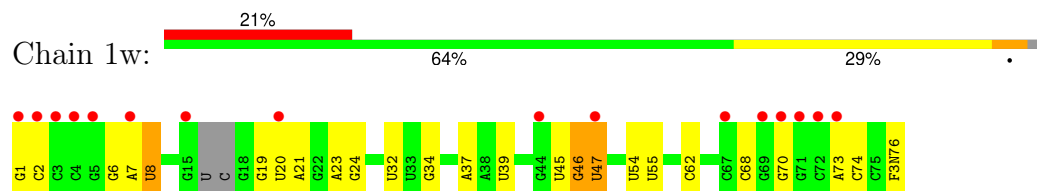
- Molecule 53: MF-mRNA



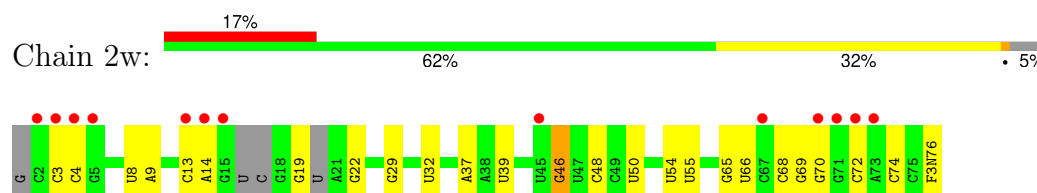
- Molecule 53: MF-mRNA



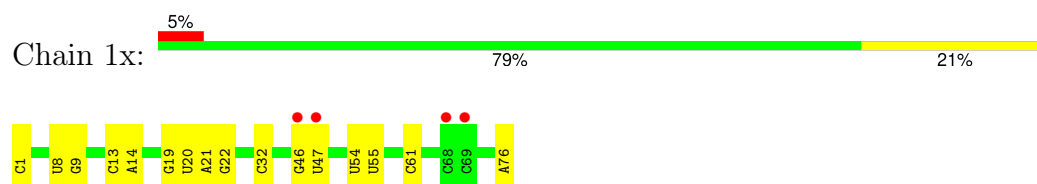
• Molecule 54: A-site Aminoacylated Phe-tRNA_{phe}



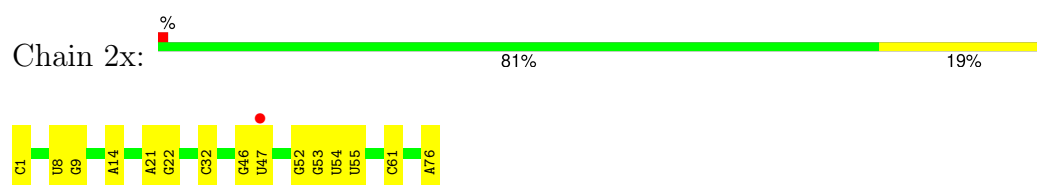
• Molecule 54: A-site Aminoacylated Phe-tRNA_{phe}



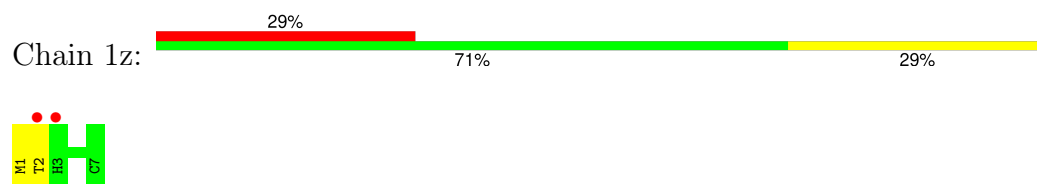
• Molecule 55: P-site Peptidyl-tRNA fMTHSMRC-tRNA_{met} RNA-part



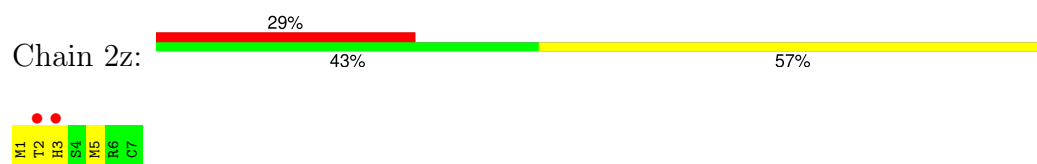
• Molecule 55: P-site Peptidyl-tRNA fMTHSMRC-tRNA_{met} RNA-part



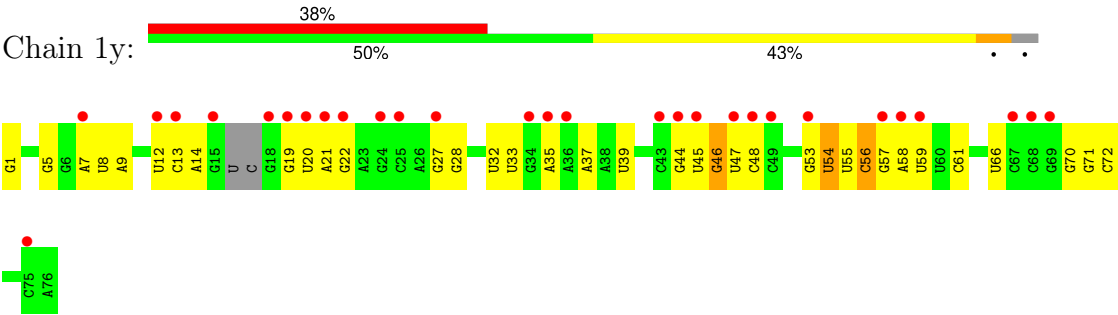
• Molecule 56: P-site Peptidyl-tRNA fMTHSMRC-tRNA_{met} Peptide-part



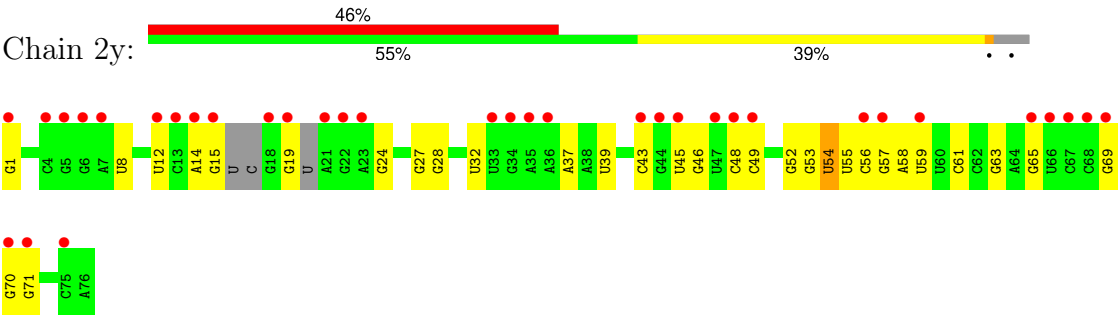
• Molecule 56: P-site Peptidyl-tRNA fMTHSMRC-tRNA_{met} Peptide-part



● Molecule 57: E-site Deacylated tRNAphe



● Molecule 57: E-site Deacylated tRNAphe



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.01Å 450.38Å 625.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	125.46 – 2.45 125.46 – 2.45	Depositor EDS
% Data completeness (in resolution range)	99.2 (125.46-2.45) 99.2 (125.46-2.45)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.17 (at 2.45Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.212 , 0.249 0.215 , 0.252	Depositor DCC
R_{free} test set	107417 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	56.8	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 53.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	300665	wwPDB-VP
Average B, all atoms (Å ²)	64.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: F3N, 4SU, M2G, OMC, MIA, MG, G7M, PSU, 5MC, 4OC, 8AN, ZN, 5MU, UR3, OMG, FME, 0TD, 8AH, MA6, 2MU, 2MG, SF4, K

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	0.49	0/69010	0.95	97/107716 (0.1%)
1	2A	0.38	0/67294	0.85	25/105038 (0.0%)
2	1B	0.42	1/2882 (0.0%)	0.82	0/4494
2	2B	0.38	1/2879 (0.0%)	0.81	1/4487 (0.0%)
3	1D	0.36	0/2186	0.56	0/2944
3	2D	0.30	0/2186	0.52	0/2944
4	1E	0.33	0/1592	0.53	0/2149
4	2E	0.29	0/1592	0.49	0/2149
5	1F	0.33	0/1618	0.53	0/2191
5	2F	0.29	0/1614	0.49	0/2186
6	1G	0.30	0/1448	0.49	0/1957
6	2G	0.29	0/1453	0.46	0/1963
7	1H	0.31	0/1356	0.51	0/1834
7	2H	0.29	0/1356	0.45	0/1834
8	1I	0.31	0/1112	0.49	0/1514
8	2I	0.28	0/1079	0.51	1/1475 (0.1%)
9	1N	0.33	0/1144	0.51	0/1543
9	2N	0.28	0/1144	0.46	0/1543
10	1O	0.34	0/943	0.54	0/1269
10	2O	0.31	0/943	0.50	0/1269
11	1P	0.31	0/1152	0.59	0/1533
11	2P	0.29	0/1152	0.53	0/1533
12	1Q	0.35	0/1143	0.54	0/1527
12	2Q	0.29	0/1143	0.48	0/1527
13	1R	0.33	0/982	0.54	0/1312
13	2R	0.27	0/982	0.47	0/1312
14	1S	0.30	0/883	0.52	0/1176
14	2S	0.28	0/880	0.48	0/1172
15	1T	0.31	0/1105	0.51	0/1477
15	2T	0.29	0/1097	0.47	0/1468
16	1U	0.34	0/977	0.52	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.28	0/977	0.44	0/1301
17	1V	0.33	0/782	0.54	0/1049
17	2V	0.29	0/782	0.50	0/1049
18	1W	0.35	0/897	0.54	0/1205
18	2W	0.29	0/897	0.48	0/1205
19	1X	0.34	0/764	0.56	0/1025
19	2X	0.31	0/764	0.53	0/1025
20	1Y	0.33	0/819	0.52	0/1095
20	2Y	0.31	0/819	0.49	0/1095
21	1Z	0.32	0/1267	0.50	0/1717
21	2Z	0.30	0/1299	0.50	0/1763
22	10	0.33	0/662	0.52	0/881
22	20	0.29	0/662	0.46	0/881
23	11	0.33	0/762	0.50	0/1014
23	21	0.33	0/762	0.51	0/1014
24	12	0.32	0/590	0.47	0/781
24	22	0.27	0/590	0.42	0/781
25	13	0.33	0/474	0.54	0/635
25	23	0.27	0/469	0.43	0/630
26	14	0.34	0/565	0.56	0/761
26	24	0.32	0/545	0.52	0/737
27	15	0.30	0/469	0.58	0/635
27	25	0.29	0/469	0.50	0/635
28	16	0.32	0/460	0.52	0/613
28	26	0.28	0/456	0.50	0/608
29	17	0.35	0/426	0.55	0/561
29	27	0.32	0/426	0.49	0/561
30	18	0.31	0/525	0.52	0/691
30	28	0.29	0/525	0.49	0/691
31	19	0.33	0/310	0.51	0/407
31	29	0.27	0/310	0.49	0/407
32	1a	0.35	0/35795	0.85	14/55864 (0.0%)
32	2a	0.35	3/35886 (0.0%)	0.87	29/56005 (0.1%)
33	1b	0.31	0/1881	0.48	0/2542
33	2b	0.30	0/1860	0.47	0/2518
34	1c	0.29	0/1572	0.45	0/2126
34	2c	0.29	0/1566	0.46	0/2119
35	1d	0.29	0/1685	0.48	1/2262 (0.0%)
35	2d	0.28	0/1704	0.46	0/2284
36	1e	0.29	0/1145	0.52	0/1543
36	2e	0.30	0/1149	0.51	0/1548
37	1f	0.29	0/823	0.48	0/1115
37	2f	0.29	0/829	0.48	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.28	0/1250	0.43	0/1679
38	2g	0.28	0/1254	0.43	0/1683
39	1h	0.29	0/1108	0.48	0/1494
39	2h	0.26	0/1108	0.46	0/1494
40	1i	0.29	0/1002	0.49	0/1346
40	2i	0.30	0/997	0.48	0/1343
41	1j	0.27	0/722	0.45	0/982
41	2j	0.28	0/727	0.51	0/988
42	1k	0.29	0/844	0.49	0/1145
42	2k	0.27	0/848	0.47	0/1149
43	1l	0.30	0/937	0.51	0/1260
43	2l	0.28	0/937	0.47	0/1260
44	1m	0.27	0/969	0.49	0/1302
44	2m	0.29	0/961	0.47	0/1291
45	1n	0.30	0/501	0.53	1/664 (0.2%)
45	2n	0.30	0/501	0.51	0/664
46	1o	0.27	0/739	0.41	0/985
46	2o	0.26	0/739	0.41	0/985
47	1p	0.30	0/697	0.51	0/939
47	2p	0.28	0/693	0.48	0/935
48	1q	0.28	0/836	0.47	0/1117
48	2q	0.26	0/836	0.46	0/1117
49	1r	0.29	0/560	0.47	0/746
49	2r	0.26	0/560	0.50	0/746
50	1s	0.27	0/667	0.52	0/900
50	2s	0.30	0/661	0.56	0/893
51	1t	0.26	0/730	0.45	0/965
51	2t	0.28	0/729	0.42	0/965
52	1u	0.27	0/203	0.48	0/266
52	2u	0.29	0/203	0.48	0/266
53	1v	0.41	0/310	0.88	0/480
53	2v	0.40	0/310	0.87	0/480
54	1w	0.51	1/1581 (0.1%)	1.02	1/2458 (0.0%)
54	2w	0.43	0/1531	0.96	0/2379
55	1x	0.59	4/1723 (0.2%)	1.14	20/2684 (0.7%)
55	2x	0.54	1/1723 (0.1%)	1.06	15/2684 (0.6%)
56	1z	0.43	0/48	0.67	0/62
56	2z	0.33	0/48	0.60	0/62
57	1y	0.59	1/1606 (0.1%)	1.09	6/2497 (0.2%)
57	2y	0.54	1/1583 (0.1%)	0.98	0/2459
All	All	0.39	13/316728 (0.0%)	0.81	211/474153 (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
33	1b	0	1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	1x	1	C	OP3-P	-10.33	1.48	1.61
32	2a	1272	G	N1-C2	-10.28	1.29	1.37
55	2x	1	C	OP3-P	-10.19	1.49	1.61
54	1w	1	G	OP3-P	-10.19	1.49	1.61
32	2a	1272	G	C6-N1	-10.16	1.32	1.39
2	1B	1	U	OP3-P	-10.16	1.49	1.61
57	1y	1	G	OP3-P	-10.04	1.49	1.61
2	2B	1	U	OP3-P	-9.99	1.49	1.61
57	2y	1	G	OP3-P	-9.89	1.49	1.61
32	2a	1263	C	N3-C4	-6.93	1.29	1.33
55	1x	14	A	N7-C5	-5.68	1.35	1.39
55	1x	22	G	C8-N7	5.38	1.34	1.30
55	1x	14	A	C8-N7	-5.28	1.27	1.31

All (211) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1263	C	N1-C2-O2	30.45	137.17	118.90
32	2a	1272	G	C5-C6-O6	23.87	142.92	128.60
32	2a	1272	G	N3-C2-N2	23.57	136.40	119.90
32	2a	1272	G	N1-C2-N2	-20.93	97.36	116.20
32	2a	1263	C	N3-C2-O2	-17.85	109.41	121.90
32	2a	1263	C	C2-N3-C4	17.43	128.62	119.90
32	2a	1272	G	N1-C6-O6	-14.63	111.12	119.90
32	2a	1272	G	C6-N1-C2	13.11	132.97	125.10
55	1x	46	G	C6-N1-C2	-12.58	117.55	125.10
32	2a	1263	C	C5-C6-N1	11.94	126.97	121.00
55	2x	46	G	C6-N1-C2	-11.20	118.38	125.10
32	2a	1272	G	C5-C6-N1	-11.17	105.92	111.50
1	1A	1075	C	N1-C2-O2	11.10	125.56	118.90
1	1A	1086	A	N1-C6-N6	-11.02	111.99	118.60
32	2a	1272	G	C2-N3-C4	-10.69	106.55	111.90
55	1x	14	A	C5-N7-C8	10.43	109.11	103.90
32	2a	1263	C	C5-C4-N4	10.36	127.45	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	14	A	C4-C5-C6	10.24	122.12	117.00
32	2a	1263	C	C4-C5-C6	-10.11	112.34	117.40
32	2a	1263	C	N3-C4-N4	-10.11	110.92	118.00
1	1A	1075	C	C2-N3-C4	10.05	124.93	119.90
32	2a	1263	C	C2-N1-C1'	9.88	129.67	118.80
55	1x	22	G	C5-N7-C8	-9.88	99.36	104.30
1	1A	2573	C	N1-C2-O2	-9.78	113.03	118.90
1	1A	512	G	O4'-C1'-N9	9.38	115.70	108.20
55	2x	14	A	C5-N7-C8	9.09	108.45	103.90
1	1A	946	G	O5'-P-OP1	-9.05	97.55	105.70
1	2A	2136	C	N1-C2-O2	9.00	124.30	118.90
1	1A	1352	U	O5'-P-OP1	-8.99	97.61	105.70
55	1x	46	G	N3-C2-N2	-8.98	113.61	119.90
1	1A	1063	G	C5-C6-O6	8.80	133.88	128.60
1	1A	2682	U	O5'-P-OP2	-8.77	97.81	105.70
2	2B	80	U	O4'-C1'-N1	8.71	115.17	108.20
55	2x	14	A	C4-C5-C6	8.65	121.33	117.00
1	1A	2492	U	O5'-P-OP1	-8.56	98.00	105.70
32	2a	1263	C	C6-N1-C2	-8.52	116.89	120.30
1	1A	531	C	O5'-P-OP2	-8.38	98.16	105.70
57	1y	33	U	C2-N1-C1'	8.34	127.71	117.70
32	2a	1263	C	N1-C2-N3	-8.28	113.40	119.20
1	1A	2036	C	O5'-P-OP1	-8.24	98.28	105.70
1	1A	2167	U	C2-N1-C1'	8.08	127.40	117.70
1	1A	576	U	O5'-P-OP1	-8.06	98.44	105.70
1	1A	1063	G	C6-N1-C2	8.02	129.91	125.10
55	2x	22	G	C5-N7-C8	-8.01	100.29	104.30
1	1A	793	A	O5'-P-OP2	-7.96	98.54	105.70
55	1x	46	G	C5-C6-N1	7.86	115.43	111.50
55	1x	14	A	C5-C6-N1	-7.75	113.83	117.70
32	2a	754	C	C2-N1-C1'	7.70	127.27	118.80
1	1A	975	C	N1-C2-O2	-7.67	114.30	118.90
1	1A	2269	A	O5'-P-OP1	-7.63	98.83	105.70
57	1y	56	C	N1-C2-O2	7.60	123.46	118.90
32	1a	558	G	O5'-P-OP1	-7.39	99.05	105.70
57	1y	33	U	N3-C2-O2	-7.34	117.06	122.20
1	2A	512	G	O4'-C1'-N9	7.30	114.04	108.20
1	1A	801	G	O5'-P-OP2	-7.28	99.15	105.70
57	1y	33	U	N1-C2-O2	7.16	127.81	122.80
1	1A	948	G	O5'-P-OP1	-7.16	99.26	105.70
1	1A	1993	U	O5'-P-OP1	-7.13	99.28	105.70
1	1A	2167	U	N1-C2-O2	7.10	127.77	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	2136	C	N3-C2-O2	-6.98	117.01	121.90
55	1x	22	G	C5-C6-N1	6.97	114.99	111.50
1	1A	1063	G	N3-C2-N2	6.96	124.77	119.90
55	1x	22	G	C4-C5-C6	-6.84	114.69	118.80
32	2a	1272	G	C8-N9-C1'	-6.79	118.18	127.00
1	1A	1614	A	O5'-P-OP1	-6.78	99.60	105.70
55	1x	22	G	N7-C8-N9	6.75	116.48	113.10
32	1a	1025	U	N1-C2-O2	6.74	127.52	122.80
55	2x	46	G	N3-C2-N2	-6.73	115.19	119.90
32	2a	1272	G	C4-N9-C1'	6.68	135.19	126.50
1	1A	2610	C	N1-C2-O2	6.67	122.90	118.90
55	2x	46	G	C5-C6-N1	6.63	114.81	111.50
1	2A	847	U	C2-N1-C1'	6.62	125.65	117.70
32	1a	299	G	C5-C6-O6	-6.55	124.67	128.60
1	1A	787	U	O5'-P-OP1	-6.52	99.83	105.70
1	1A	1086	A	C5-C6-N6	6.49	128.90	123.70
1	1A	1776	G	O5'-P-OP2	-6.42	99.93	105.70
1	1A	975	C	C2-N1-C1'	-6.39	111.78	118.80
1	1A	2629	A	P-O3'-C3'	6.37	127.35	119.70
1	1A	2167	U	N3-C2-O2	-6.36	117.75	122.20
1	1A	1075	C	C5-C4-N4	6.34	124.64	120.20
55	2x	22	G	N1-C6-O6	-6.33	116.11	119.90
1	1A	2129	C	N1-C2-O2	6.32	122.69	118.90
55	1x	22	G	C4-C5-N7	6.31	113.32	110.80
8	2I	58	LEU	CA-CB-CG	6.27	129.73	115.30
55	2x	46	G	N1-C2-N3	6.26	127.65	123.90
1	2A	2129	C	N1-C2-O2	6.25	122.65	118.90
32	2a	1263	C	C6-N1-C1'	-6.19	113.37	120.80
1	1A	1080	C	N1-C2-O2	6.18	122.61	118.90
32	1a	1158	C	C2-N1-C1'	6.15	125.56	118.80
55	1x	46	G	N1-C2-N3	6.12	127.57	123.90
1	1A	1074	G	C5-C6-O6	-6.08	124.95	128.60
1	2A	1352	U	O5'-P-OP1	-6.08	100.23	105.70
55	2x	22	G	C4-C5-C6	-6.05	115.17	118.80
45	1n	44	LEU	CA-CB-CG	6.05	129.22	115.30
1	1A	1992	G	P-O3'-C3'	6.05	126.96	119.70
55	2x	22	G	N7-C8-N9	6.04	116.12	113.10
1	1A	1074	G	N3-C4-N9	6.02	129.61	126.00
1	2A	2689	U	N3-C2-O2	-6.02	117.98	122.20
32	2a	1067	A	P-O3'-C3'	6.01	126.91	119.70
1	1A	975	C	C6-N1-C1'	6.00	128.00	120.80
1	1A	2371	G	C5-C6-N1	5.97	114.49	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1075	C	N3-C2-O2	-5.96	117.72	121.90
1	2A	141	A	O4'-C1'-N9	5.96	112.97	108.20
1	1A	372	G	O4'-C1'-N9	5.95	112.96	108.20
1	2A	801	G	O5'-P-OP2	-5.94	100.35	105.70
1	1A	2028	U	N3-C4-O4	-5.94	115.25	119.40
54	1w	47	U	C2-N1-C1'	5.93	124.82	117.70
1	1A	614	U	N3-C2-O2	-5.92	118.05	122.20
55	1x	46	G	N9-C4-C5	5.89	107.76	105.40
55	2x	14	A	C5-C6-N1	-5.88	114.76	117.70
32	2a	754	C	C6-N1-C1'	-5.85	113.78	120.80
32	2a	1158	C	C2-N1-C1'	5.85	125.23	118.80
32	1a	1030	C	N1-C2-O2	5.78	122.37	118.90
1	2A	1698	A	O4'-C1'-N9	5.77	112.81	108.20
55	1x	14	A	C8-N9-C1'	-5.77	117.32	127.70
55	1x	46	G	C5-C6-O6	-5.74	125.15	128.60
1	1A	2848	G	O4'-C1'-N9	5.74	112.79	108.20
1	2A	2689	U	P-O3'-C3'	5.73	126.57	119.70
1	2A	885	C	C5-C6-N1	5.72	123.86	121.00
1	1A	2573	C	C2-N3-C4	-5.71	117.04	119.90
1	2A	1992	G	P-O3'-C3'	5.69	126.53	119.70
1	1A	386	G	O4'-C1'-N9	5.68	112.75	108.20
55	2x	22	G	C5-C6-N1	5.66	114.33	111.50
1	1A	2032	G	C5-N7-C8	5.64	107.12	104.30
1	1A	1648	C	O5'-P-OP1	-5.63	100.63	105.70
32	1a	1030	C	C2-N3-C4	5.62	122.71	119.90
32	2a	266	G	P-O3'-C3'	5.61	126.44	119.70
1	1A	2023	G	O5'-P-OP1	-5.61	100.65	105.70
1	1A	2825	C	C6-N1-C2	-5.60	118.06	120.30
1	1A	1779	U	O4'-C1'-N1	5.60	112.68	108.20
1	1A	1372	U	N3-C4-O4	5.60	123.32	119.40
1	2A	141	A	N7-C8-N9	5.59	116.59	113.80
1	1A	1174	A	OP1-P-O3'	5.58	117.47	105.20
57	1y	56	C	C2-N3-C4	5.58	122.69	119.90
1	1A	2129	C	C2-N1-C1'	5.57	124.93	118.80
1	2A	2492	U	O5'-P-OP1	-5.55	100.70	105.70
1	2A	2689	U	N1-C2-O2	5.54	126.68	122.80
1	2A	528	A	P-O3'-C3'	5.53	126.34	119.70
55	2x	14	A	C4-C5-N7	-5.51	107.94	110.70
1	1A	1074	G	N9-C4-C5	-5.50	103.20	105.40
1	1A	704	G	O4'-C1'-N9	5.49	112.59	108.20
1	1A	847	U	C2-N1-C1'	5.44	124.23	117.70
55	1x	14	A	C4-N9-C1'	5.43	136.08	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1614	A	O5'-P-OP1	-5.43	100.82	105.70
1	1A	1174	A	P-O3'-C3'	5.41	126.19	119.70
55	2x	14	A	C8-N9-C1'	-5.40	117.98	127.70
1	2A	228	A	P-O3'-C3'	5.37	126.14	119.70
1	1A	1936	A	O4'-C1'-N9	5.36	112.49	108.20
1	2A	2318	G	N3-C4-C5	-5.35	125.92	128.60
32	2a	115	G	P-O3'-C3'	5.33	126.10	119.70
1	1A	975	C	N1-C2-N3	5.32	122.93	119.20
55	2x	14	A	C4-N9-C1'	5.32	135.88	126.30
32	1a	754	C	C2-N1-C1'	5.32	124.65	118.80
35	1d	187	ARG	C-N-CA	-5.31	108.42	121.70
32	1a	913	A	P-O3'-C3'	5.31	126.07	119.70
55	1x	22	G	C8-N9-C1'	5.31	133.90	127.00
1	1A	2593	U	N3-C4-C5	5.30	117.78	114.60
1	1A	1064	C	C2-N1-C1'	5.29	124.62	118.80
1	1A	568	U	C5-C4-O4	-5.28	122.73	125.90
1	1A	1314	C	C2-N1-C1'	5.27	124.60	118.80
1	1A	271(Y)	U	O4'-C1'-N1	5.27	112.41	108.20
1	1A	226	G	O4'-C1'-N9	5.25	112.40	108.20
55	1x	14	A	C4-C5-N7	-5.25	108.07	110.70
1	1A	1416	G	O4'-C1'-N9	5.25	112.40	108.20
32	2a	754	C	N1-C2-O2	5.25	122.05	118.90
32	1a	1067	A	P-O3'-C3'	5.24	125.99	119.70
1	1A	975	C	C2-N3-C4	-5.23	117.28	119.90
1	1A	1082	U	N3-C4-O4	-5.23	115.74	119.40
32	1a	115	G	P-O3'-C3'	5.23	125.97	119.70
1	1A	1647	G	O4'-C1'-N9	-5.22	104.02	108.20
57	1y	33	U	C6-N1-C1'	-5.22	113.90	121.20
1	2A	752	A	P-O3'-C3'	5.22	125.96	119.70
32	2a	1065	U	P-O3'-C3'	5.22	125.96	119.70
1	2A	2287	A	O4'-C1'-N9	5.21	112.37	108.20
1	1A	2167	U	C6-N1-C1'	-5.21	113.91	121.20
1	1A	139(A)	G	C5-N7-C8	5.20	106.90	104.30
1	2A	528	A	OP1-P-O3'	5.20	116.63	105.20
32	2a	913	A	P-O3'-C3'	5.18	125.92	119.70
1	1A	1236	G	C8-N9-C4	5.18	108.47	106.40
1	1A	2129	C	N3-C2-O2	-5.17	118.28	121.90
1	1A	784	A	OP1-P-O3'	5.17	116.58	105.20
1	1A	1063	G	N1-C6-O6	-5.16	116.80	119.90
1	1A	847	U	N1-C2-O2	5.16	126.41	122.80
1	1A	1064	C	N1-C2-O2	5.16	122.00	118.90
1	1A	2439	A	OP1-P-O3'	5.16	116.55	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	368	U	O4'-C1'-N1	5.16	112.33	108.20
1	2A	141	A	C8-N9-C4	-5.16	103.74	105.80
1	1A	2553	G	N3-C4-N9	5.15	129.09	126.00
55	1x	46	G	C4-C5-N7	-5.14	108.74	110.80
1	1A	2136	C	N1-C2-O2	5.14	121.98	118.90
1	1A	961	C	O5'-P-OP2	-5.13	101.08	105.70
1	1A	1791	A	O5'-P-OP1	-5.13	101.08	105.70
1	1A	1100	C	C2-N1-C1'	5.13	124.44	118.80
1	1A	1074	G	C4-C5-N7	5.12	112.85	110.80
1	1A	944	G	C8-N9-C1'	-5.12	120.35	127.00
32	1a	266	G	P-O3'-C3'	5.11	125.84	119.70
1	1A	2248	C	O5'-P-OP2	-5.11	101.10	105.70
1	2A	228	A	OP1-P-O3'	5.10	116.42	105.20
1	1A	746	A	O4'-C1'-N9	5.08	112.27	108.20
32	1a	748	C	P-O3'-C3'	5.06	125.78	119.70
1	1A	845	G	O4'-C1'-N9	5.06	112.25	108.20
1	1A	1080	C	C2-N3-C4	5.05	122.43	119.90
1	1A	2073	C	OP2-P-O3'	5.05	116.32	105.20
1	1A	195	A	P-O3'-C3'	5.05	125.76	119.70
1	1A	679	C	N1-C2-O2	5.04	121.92	118.90
1	1A	975	C	C5-C6-N1	-5.03	118.48	121.00
32	1a	975	A	O4'-C1'-N9	-5.03	104.18	108.20
1	1A	2207	G	N1-C6-O6	5.03	122.92	119.90
1	1A	2610	C	N3-C2-O2	-5.03	118.38	121.90
1	1A	1192	G	C5-N7-C8	5.02	106.81	104.30
55	1x	22	G	N1-C6-O6	-5.01	116.89	119.90

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
33	1b	122	PHE	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 ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	258 (94%)	15 (6%)	0	100	100
3	2D	273/276 (99%)	260 (95%)	13 (5%)	0	100	100
4	1E	202/206 (98%)	193 (96%)	8 (4%)	1 (0%)	25	32
4	2E	202/206 (98%)	191 (95%)	10 (5%)	1 (0%)	25	32
5	1F	200/210 (95%)	196 (98%)	3 (2%)	1 (0%)	25	32
5	2F	200/210 (95%)	190 (95%)	9 (4%)	1 (0%)	25	32
6	1G	179/182 (98%)	167 (93%)	11 (6%)	1 (1%)	22	28
6	2G	179/182 (98%)	159 (89%)	15 (8%)	5 (3%)	4	2
7	1H	172/180 (96%)	162 (94%)	10 (6%)	0	100	100
7	2H	172/180 (96%)	159 (92%)	12 (7%)	1 (1%)	22	28
8	1I	144/148 (97%)	123 (85%)	20 (14%)	1 (1%)	19	24
8	2I	144/148 (97%)	125 (87%)	18 (12%)	1 (1%)	19	24
9	1N	138/140 (99%)	133 (96%)	5 (4%)	0	100	100
9	2N	138/140 (99%)	130 (94%)	6 (4%)	2 (1%)	9	9
10	1O	120/122 (98%)	115 (96%)	5 (4%)	0	100	100
10	2O	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
11	1P	147/150 (98%)	133 (90%)	11 (8%)	3 (2%)	6	5
11	2P	147/150 (98%)	133 (90%)	10 (7%)	4 (3%)	4	2
12	1Q	139/141 (99%)	130 (94%)	9 (6%)	0	100	100
12	2Q	139/141 (99%)	127 (91%)	11 (8%)	1 (1%)	19	24
13	1R	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
13	2R	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
14	1S	108/112 (96%)	103 (95%)	5 (5%)	0	100	100
14	2S	108/112 (96%)	100 (93%)	7 (6%)	1 (1%)	14	18
15	1T	129/146 (88%)	123 (95%)	5 (4%)	1 (1%)	16	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	2T	129/146 (88%)	123 (95%)	6 (5%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	114 (100%)	0	0	100	100
17	1V	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	13	14
17	2V	99/101 (98%)	92 (93%)	7 (7%)	0	100	100
18	1W	110/113 (97%)	110 (100%)	0	0	100	100
18	2W	110/113 (97%)	109 (99%)	1 (1%)	0	100	100
19	1X	93/96 (97%)	88 (95%)	3 (3%)	2 (2%)	5	4
19	2X	93/96 (97%)	89 (96%)	3 (3%)	1 (1%)	12	13
20	1Y	105/110 (96%)	99 (94%)	6 (6%)	0	100	100
20	2Y	105/110 (96%)	99 (94%)	6 (6%)	0	100	100
21	1Z	148/206 (72%)	130 (88%)	17 (12%)	1 (1%)	19	24
21	2Z	156/206 (76%)	131 (84%)	21 (14%)	4 (3%)	4	2
22	10	81/85 (95%)	78 (96%)	3 (4%)	0	100	100
22	20	81/85 (95%)	78 (96%)	3 (4%)	0	100	100
23	11	95/98 (97%)	93 (98%)	1 (1%)	1 (1%)	12	13
23	21	95/98 (97%)	94 (99%)	1 (1%)	0	100	100
24	12	68/72 (94%)	65 (96%)	3 (4%)	0	100	100
24	22	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
25	13	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
25	23	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
26	14	67/71 (94%)	54 (81%)	8 (12%)	5 (8%)	1	0
26	24	67/71 (94%)	57 (85%)	7 (10%)	3 (4%)	2	0
27	15	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
27	25	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
28	16	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
28	26	51/54 (94%)	49 (96%)	2 (4%)	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%)	61 (98%)	1 (2%)	0	100	100
30	28	62/65 (95%)	62 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	19	35/37 (95%)	35 (100%)	0	0	100	100
31	29	35/37 (95%)	34 (97%)	1 (3%)	0	100	100
33	1b	229/256 (90%)	194 (85%)	26 (11%)	9 (4%)	2	1
33	2b	229/256 (90%)	197 (86%)	28 (12%)	4 (2%)	7	6
34	1c	204/239 (85%)	188 (92%)	15 (7%)	1 (0%)	25	32
34	2c	204/239 (85%)	176 (86%)	21 (10%)	7 (3%)	3	1
35	1d	206/209 (99%)	194 (94%)	9 (4%)	3 (2%)	8	8
35	2d	206/209 (99%)	191 (93%)	15 (7%)	0	100	100
36	1e	146/162 (90%)	130 (89%)	13 (9%)	3 (2%)	5	4
36	2e	146/162 (90%)	133 (91%)	10 (7%)	3 (2%)	5	4
37	1f	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
37	2f	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
38	1g	153/156 (98%)	143 (94%)	9 (6%)	1 (1%)	19	24
38	2g	153/156 (98%)	139 (91%)	11 (7%)	3 (2%)	6	5
39	1h	135/138 (98%)	123 (91%)	12 (9%)	0	100	100
39	2h	135/138 (98%)	126 (93%)	8 (6%)	1 (1%)	19	24
40	1i	125/128 (98%)	106 (85%)	18 (14%)	1 (1%)	16	21
40	2i	125/128 (98%)	115 (92%)	9 (7%)	1 (1%)	16	21
41	1j	95/105 (90%)	83 (87%)	9 (10%)	3 (3%)	3	1
41	2j	94/105 (90%)	78 (83%)	13 (14%)	3 (3%)	3	1
42	1k	112/129 (87%)	102 (91%)	9 (8%)	1 (1%)	14	18
42	2k	112/129 (87%)	102 (91%)	7 (6%)	3 (3%)	4	2
43	1l	119/132 (90%)	113 (95%)	4 (3%)	2 (2%)	7	6
43	2l	119/132 (90%)	113 (95%)	6 (5%)	0	100	100
44	1m	121/126 (96%)	109 (90%)	10 (8%)	2 (2%)	7	6
44	2m	120/126 (95%)	110 (92%)	9 (8%)	1 (1%)	16	21
45	1n	58/61 (95%)	54 (93%)	3 (5%)	1 (2%)	7	6
45	2n	58/61 (95%)	52 (90%)	6 (10%)	0	100	100
46	1o	86/89 (97%)	82 (95%)	4 (5%)	0	100	100
46	2o	86/89 (97%)	80 (93%)	6 (7%)	0	100	100
47	1p	80/88 (91%)	66 (82%)	13 (16%)	1 (1%)	10	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	2p	80/88 (91%)	72 (90%)	8 (10%)	0	100	100
48	1q	97/105 (92%)	91 (94%)	5 (5%)	1 (1%)	13	14
48	2q	97/105 (92%)	90 (93%)	6 (6%)	1 (1%)	13	14
49	1r	66/88 (75%)	63 (96%)	3 (4%)	0	100	100
49	2r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
50	1s	81/93 (87%)	72 (89%)	9 (11%)	0	100	100
50	2s	81/93 (87%)	69 (85%)	10 (12%)	2 (2%)	4	3
51	1t	94/106 (89%)	86 (92%)	5 (5%)	3 (3%)	3	1
51	2t	94/106 (89%)	85 (90%)	7 (7%)	2 (2%)	5	4
52	1u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
52	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
56	1z	5/7 (71%)	5 (100%)	0	0	100	100
56	2z	5/7 (71%)	5 (100%)	0	0	100	100
All	All	11378/12142 (94%)	10554 (93%)	718 (6%)	106 (1%)	14	18

All (106) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
21	1Z	53	ILE
33	1b	17	PHE
33	1b	126	GLU
35	1d	173	TRP
40	1i	54	ASP
42	1k	49	GLY
44	1m	67	GLU
5	2F	130	ALA
12	2Q	16	ARG
26	24	45	GLY
33	2b	17	PHE
38	2g	4	ARG
38	2g	55	GLY
44	2m	106	ASN
5	1F	130	ALA
8	1I	11	ASN
11	1P	44	GLY
17	1V	43	GLU
19	1X	93	GLU

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Mol	Chain	Res	Type
23	1l	3	LYS
26	14	61	ARG
36	1e	21	ALA
36	1e	85	GLY
45	1n	12	ARG
48	1q	68	ARG
6	2G	42	GLY
6	2G	43	LEU
6	2G	50	ALA
6	2G	51	ARG
11	2P	36	LYS
21	2Z	52	SER
33	2b	126	GLU
34	2c	107	GLN
40	2i	56	LEU
48	2q	68	ARG
50	2s	81	ARG
11	1P	38	GLN
26	14	49	PHE
26	14	62	ARG
33	1b	228	GLY
34	1c	107	GLN
38	1g	79	ARG
41	1j	79	ARG
47	1p	75	ARG
9	2N	2	LYS
9	2N	23	LEU
11	2P	38	GLN
19	2X	93	GLU
21	2Z	144	LEU
26	24	47	GLN
26	24	49	PHE
34	2c	43	LEU
36	2e	69	VAL
41	2j	78	ASN
41	2j	79	ARG
42	2k	49	GLY
4	1E	52	LEU
6	1G	43	LEU
33	1b	8	LYS
33	1b	22	LYS
33	1b	106	LYS

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Mol	Chain	Res	Type
35	1d	88	VAL
41	1j	78	ASN
43	1l	91	LYS
43	1l	105	TYR
44	1m	106	ASN
4	2E	52	LEU
14	2S	84	GLN
34	2c	91	LEU
34	2c	95	THR
38	2g	80	VAL
42	2k	117	ASN
51	2t	10	LEU
15	1T	55	ASN
19	1X	2	LYS
26	14	51	ASP
51	1t	47	GLY
6	2G	181	ARG
7	2H	126	PRO
11	2P	122	PRO
21	2Z	146	ILE
33	2b	123	ALA
34	2c	53	ALA
33	1b	20	GLU
51	1t	100	ILE
8	2I	10	GLU
11	2P	45	LEU
34	2c	179	ARG
51	2t	95	ALA
35	1d	172	PRO
33	2b	231	GLU
34	2c	51	GLY
41	2j	75	ILE
42	2k	105	VAL
41	1j	39	PRO
50	2s	9	VAL
11	1P	122	PRO
36	2e	11	ILE
39	2h	73	ASP
33	1b	231	GLU
36	1e	69	VAL
51	1t	96	GLY
21	2Z	171	ILE

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Mol	Chain	Res	Type
26	14	50	VAL
36	2e	96	PRO
33	1b	125	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	215/218 (99%)	208 (97%)	7 (3%)	33	47
3	2D	215/218 (99%)	206 (96%)	9 (4%)	25	38
4	1E	164/166 (99%)	159 (97%)	5 (3%)	36	51
4	2E	164/166 (99%)	158 (96%)	6 (4%)	29	43
5	1F	160/166 (96%)	146 (91%)	14 (9%)	8	8
5	2F	159/166 (96%)	153 (96%)	6 (4%)	28	41
6	1G	143/156 (92%)	133 (93%)	10 (7%)	12	15
6	2G	143/156 (92%)	126 (88%)	17 (12%)	4	3
7	1H	144/148 (97%)	139 (96%)	5 (4%)	31	45
7	2H	144/148 (97%)	140 (97%)	4 (3%)	38	54
8	1I	113/124 (91%)	100 (88%)	13 (12%)	4	3
8	2I	105/124 (85%)	90 (86%)	15 (14%)	2	2
9	1N	118/119 (99%)	110 (93%)	8 (7%)	13	16
9	2N	118/119 (99%)	109 (92%)	9 (8%)	11	13
10	1O	100/100 (100%)	97 (97%)	3 (3%)	36	51
10	2O	100/100 (100%)	93 (93%)	7 (7%)	12	15
11	1P	115/116 (99%)	108 (94%)	7 (6%)	15	21
11	2P	115/116 (99%)	108 (94%)	7 (6%)	15	21
12	1Q	111/111 (100%)	109 (98%)	2 (2%)	54	68
12	2Q	111/111 (100%)	106 (96%)	5 (4%)	23	34
13	1R	101/101 (100%)	98 (97%)	3 (3%)	36	51

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	2R	101/101 (100%)	99 (98%)	2 (2%)	50	65
14	1S	86/88 (98%)	79 (92%)	7 (8%)	9	11
14	2S	85/88 (97%)	77 (91%)	8 (9%)	7	7
15	1T	115/127 (91%)	109 (95%)	6 (5%)	19	27
15	2T	113/127 (89%)	107 (95%)	6 (5%)	19	27
16	1U	93/94 (99%)	90 (97%)	3 (3%)	34	48
16	2U	93/94 (99%)	88 (95%)	5 (5%)	18	26
17	1V	80/82 (98%)	78 (98%)	2 (2%)	42	58
17	2V	80/82 (98%)	77 (96%)	3 (4%)	28	41
18	1W	90/92 (98%)	87 (97%)	3 (3%)	33	47
18	2W	90/92 (98%)	88 (98%)	2 (2%)	47	62
19	1X	77/78 (99%)	75 (97%)	2 (3%)	41	57
19	2X	77/78 (99%)	76 (99%)	1 (1%)	65	78
20	1Y	85/91 (93%)	77 (91%)	8 (9%)	7	7
20	2Y	85/91 (93%)	81 (95%)	4 (5%)	22	32
21	1Z	135/179 (75%)	123 (91%)	12 (9%)	8	8
21	2Z	137/179 (76%)	124 (90%)	13 (10%)	7	7
22	10	65/67 (97%)	65 (100%)	0	100	100
22	20	65/67 (97%)	65 (100%)	0	100	100
23	11	80/83 (96%)	79 (99%)	1 (1%)	65	78
23	21	80/83 (96%)	78 (98%)	2 (2%)	42	58
24	12	65/67 (97%)	62 (95%)	3 (5%)	23	33
24	22	65/67 (97%)	63 (97%)	2 (3%)	35	50
25	13	51/52 (98%)	48 (94%)	3 (6%)	16	23
25	23	50/52 (96%)	45 (90%)	5 (10%)	6	6
26	14	59/63 (94%)	52 (88%)	7 (12%)	4	3
26	24	53/63 (84%)	43 (81%)	10 (19%)	1	0
27	15	50/52 (96%)	47 (94%)	3 (6%)	16	22
27	25	50/52 (96%)	46 (92%)	4 (8%)	10	11
28	16	51/52 (98%)	45 (88%)	6 (12%)	4	3
28	26	50/52 (96%)	45 (90%)	5 (10%)	6	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	17	41/42 (98%)	37 (90%)	4 (10%)	6	6
29	27	41/42 (98%)	37 (90%)	4 (10%)	6	6
30	18	54/55 (98%)	49 (91%)	5 (9%)	7	7
30	28	54/55 (98%)	50 (93%)	4 (7%)	11	13
31	19	34/34 (100%)	34 (100%)	0	100	100
31	29	34/34 (100%)	34 (100%)	0	100	100
33	1b	192/220 (87%)	171 (89%)	21 (11%)	5	4
33	2b	187/220 (85%)	159 (85%)	28 (15%)	2	1
34	1c	142/188 (76%)	128 (90%)	14 (10%)	6	6
34	2c	140/188 (74%)	127 (91%)	13 (9%)	7	7
35	1d	169/181 (93%)	152 (90%)	17 (10%)	6	6
35	2d	173/181 (96%)	158 (91%)	15 (9%)	8	8
36	1e	113/123 (92%)	104 (92%)	9 (8%)	10	11
36	2e	114/123 (93%)	104 (91%)	10 (9%)	8	8
37	1f	84/90 (93%)	80 (95%)	4 (5%)	21	31
37	2f	85/90 (94%)	78 (92%)	7 (8%)	9	10
38	1g	119/127 (94%)	104 (87%)	15 (13%)	3	3
38	2g	120/127 (94%)	105 (88%)	15 (12%)	3	3
39	1h	114/119 (96%)	110 (96%)	4 (4%)	31	45
39	2h	114/119 (96%)	106 (93%)	8 (7%)	12	15
40	1i	90/99 (91%)	81 (90%)	9 (10%)	6	6
40	2i	89/99 (90%)	78 (88%)	11 (12%)	4	3
41	1j	66/92 (72%)	57 (86%)	9 (14%)	3	2
41	2j	69/92 (75%)	61 (88%)	8 (12%)	4	3
42	1k	82/99 (83%)	78 (95%)	4 (5%)	21	30
42	2k	83/99 (84%)	79 (95%)	4 (5%)	21	31
43	1l	96/108 (89%)	92 (96%)	4 (4%)	25	38
43	2l	96/108 (89%)	88 (92%)	8 (8%)	9	10
44	1m	93/101 (92%)	87 (94%)	6 (6%)	14	18
44	2m	92/101 (91%)	82 (89%)	10 (11%)	5	4
45	1n	49/50 (98%)	40 (82%)	9 (18%)	1	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	2n	49/50 (98%)	47 (96%)	2 (4%)	26	39
46	1o	78/80 (98%)	76 (97%)	2 (3%)	41	57
46	2o	78/80 (98%)	74 (95%)	4 (5%)	20	28
47	1p	69/74 (93%)	67 (97%)	2 (3%)	37	52
47	2p	68/74 (92%)	63 (93%)	5 (7%)	11	13
48	1q	94/97 (97%)	91 (97%)	3 (3%)	34	48
48	2q	94/97 (97%)	91 (97%)	3 (3%)	34	48
49	1r	59/77 (77%)	56 (95%)	3 (5%)	20	28
49	2r	59/77 (77%)	55 (93%)	4 (7%)	13	16
50	1s	69/80 (86%)	67 (97%)	2 (3%)	37	52
50	2s	67/80 (84%)	61 (91%)	6 (9%)	8	8
51	1t	70/82 (85%)	64 (91%)	6 (9%)	8	9
51	2t	70/82 (85%)	68 (97%)	2 (3%)	37	52
52	1u	18/22 (82%)	17 (94%)	1 (6%)	17	24
52	2u	18/22 (82%)	18 (100%)	0	100	100
56	1z	6/6 (100%)	5 (83%)	1 (17%)	2	1
56	2z	6/6 (100%)	3 (50%)	3 (50%)	0	0
All	All	9315/10076 (92%)	8687 (93%)	628 (7%)	13	17

All (628) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	37	LEU
3	1D	71	ASP
3	1D	142	VAL
3	1D	211	ARG
3	1D	229	VAL
3	1D	242	ARG
3	1D	259	THR
4	1E	1	MET
4	1E	47	VAL
4	1E	113	PHE
4	1E	116	VAL
4	1E	184	VAL
5	1F	13	SER
5	1F	24	LEU

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Mol	Chain	Res	Type
5	1F	27	GLU
5	1F	53	THR
5	1F	57	VAL
5	1F	60	SER
5	1F	70	THR
5	1F	106	ARG
5	1F	144	LYS
5	1F	168	ARG
5	1F	175	THR
5	1F	183	VAL
5	1F	192	LEU
5	1F	195	ASP
6	1G	3	LEU
6	1G	5	VAL
6	1G	7	LEU
6	1G	21	ARG
6	1G	22	ARG
6	1G	43	LEU
6	1G	91	ARG
6	1G	139	LEU
6	1G	159	VAL
6	1G	170	ARG
7	1H	95	ARG
7	1H	127	GLU
7	1H	134	SER
7	1H	149	ARG
7	1H	160	LYS
8	1I	12	LEU
8	1I	20	ASP
8	1I	38	LEU
8	1I	47	LEU
8	1I	76	THR
8	1I	77	LEU
8	1I	85	GLU
8	1I	101	LEU
8	1I	116	LEU
8	1I	133	HIS
8	1I	140	LEU
8	1I	143	SER
8	1I	144	VAL
9	1N	1	MET
9	1N	8	GLN

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Mol	Chain	Res	Type
9	1N	9	VAL
9	1N	28	THR
9	1N	48	MET
9	1N	61	ARG
9	1N	62	VAL
9	1N	83	LYS
10	1O	28	SER
10	1O	66	LYS
10	1O	113	LYS
11	1P	7	ARG
11	1P	15	ARG
11	1P	45	LEU
11	1P	98	GLU
11	1P	125	VAL
11	1P	133	SER
11	1P	147	LEU
12	1Q	75	THR
12	1Q	109	VAL
13	1R	24	GLN
13	1R	36	THR
13	1R	114	VAL
14	1S	3	ARG
14	1S	14	VAL
14	1S	17	ARG
14	1S	25	ARG
14	1S	46	VAL
14	1S	73	LEU
14	1S	110	LEU
15	1T	28	VAL
15	1T	36	GLU
15	1T	96	ARG
15	1T	107	ASP
15	1T	108	ARG
15	1T	115	ARG
16	1U	31	SER
16	1U	74	LEU
16	1U	95	LEU
17	1V	56	SER
17	1V	73	SER
18	1W	11	ARG
18	1W	17	VAL
18	1W	67	ASP

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Mol	Chain	Res	Type
19	1X	38	GLU
19	1X	72	LYS
20	1Y	1	MET
20	1Y	7	VAL
20	1Y	31	LEU
20	1Y	64	GLU
20	1Y	67	LEU
20	1Y	91	GLU
20	1Y	92	ASN
20	1Y	99	CYS
21	1Z	1	MET
21	1Z	33	LEU
21	1Z	42	VAL
21	1Z	72	ARG
21	1Z	80	ARG
21	1Z	84	GLU
21	1Z	129	SER
21	1Z	132	ASN
21	1Z	154	ASP
21	1Z	155	LEU
21	1Z	170	THR
21	1Z	171	ILE
23	11	40	ARG
24	12	40	SER
24	12	55	ARG
24	12	70	GLN
25	13	23	LEU
25	13	35	ARG
25	13	37	LEU
26	14	1	MET
26	14	49	PHE
26	14	50	VAL
26	14	61	ARG
26	14	63	TYR
26	14	66	SER
26	14	69	LYS
27	15	6	VAL
27	15	33	CYS
27	15	40	LYS
28	16	6	ARG
28	16	7	ILE
28	16	14	THR

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Mol	Chain	Res	Type
28	16	17	LYS
28	16	19	ARG
28	16	47	THR
29	17	24	THR
29	17	41	ARG
29	17	43	THR
29	17	46	VAL
30	18	14	VAL
30	18	23	VAL
30	18	29	LYS
30	18	31	HIS
30	18	34	TRP
33	1b	7	VAL
33	1b	12	GLU
33	1b	21	ARG
33	1b	23	ARG
33	1b	24	TRP
33	1b	28	PHE
33	1b	35	GLU
33	1b	43	ASP
33	1b	45	GLN
33	1b	78	GLN
33	1b	81	VAL
33	1b	82	ARG
33	1b	83	MET
33	1b	196	LEU
33	1b	197	VAL
33	1b	212	GLN
33	1b	215	LEU
33	1b	221	LEU
33	1b	229	VAL
33	1b	233	SER
33	1b	236	TYR
34	1c	3	ASN
34	1c	8	ILE
34	1c	17	ASP
34	1c	29	TYR
34	1c	49	SER
34	1c	56	ASP
34	1c	70	VAL
34	1c	89	GLU
34	1c	102	ASN

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Mol	Chain	Res	Type
34	1c	119	ARG
34	1c	165	THR
34	1c	178	LEU
34	1c	195	VAL
34	1c	207	VAL
35	1d	3	ARG
35	1d	10	ARG
35	1d	19	LEU
35	1d	28	SER
35	1d	31	CYS
35	1d	59	ARG
35	1d	83	SER
35	1d	89	THR
35	1d	91	SER
35	1d	107	ARG
35	1d	135	LEU
35	1d	137	SER
35	1d	140	VAL
35	1d	157	LEU
35	1d	175	SER
35	1d	188	LEU
35	1d	194	LEU
36	1e	10	MET
36	1e	18	ARG
36	1e	20	GLN
36	1e	24	ARG
36	1e	31	LEU
36	1e	41	VAL
36	1e	63	ARG
36	1e	64	ARG
36	1e	75	THR
37	1f	72	VAL
37	1f	73	ASN
37	1f	75	LEU
37	1f	92	LYS
38	1g	12	LEU
38	1g	13	GLN
38	1g	21	VAL
38	1g	50	ILE
38	1g	51	GLN
38	1g	59	LEU
38	1g	78	ARG

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Mol	Chain	Res	Type
38	1g	80	VAL
38	1g	85	TYR
38	1g	87	VAL
38	1g	90	GLU
38	1g	104	LEU
38	1g	110	GLN
38	1g	114	ARG
38	1g	115	ARG
39	1h	18	ARG
39	1h	26	VAL
39	1h	52	ASP
39	1h	54	ASP
40	1i	23	ASN
40	1i	25	LYS
40	1i	27	THR
40	1i	53	VAL
40	1i	60	ASP
40	1i	88	TYR
40	1i	92	TYR
40	1i	103	THR
40	1i	128	ARG
41	1j	5	ARG
41	1j	38	ILE
41	1j	43	ARG
41	1j	44	VAL
41	1j	46	ARG
41	1j	51	ARG
41	1j	81	THR
41	1j	92	THR
41	1j	98	ILE
42	1k	18	ARG
42	1k	31	THR
42	1k	48	ILE
42	1k	104	GLN
43	1l	18	VAL
43	1l	33	ARG
43	1l	36	VAL
43	1l	62	SER
44	1m	4	ILE
44	1m	11	ARG
44	1m	43	THR
44	1m	70	LEU

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Mol	Chain	Res	Type
44	1m	106	ASN
44	1m	121	LYS
45	1n	13	THR
45	1n	15	LYS
45	1n	17	LYS
45	1n	18	VAL
45	1n	24	CYS
45	1n	35	ARG
45	1n	44	LEU
45	1n	53	LEU
45	1n	60	SER
46	1o	76	GLU
46	1o	84	LYS
47	1p	67	THR
47	1p	75	ARG
48	1q	34	LYS
48	1q	60	ILE
48	1q	99	SER
49	1r	35	ARG
49	1r	37	VAL
49	1r	63	GLN
50	1s	6	LYS
50	1s	12	ASP
51	1t	10	LEU
51	1t	13	LEU
51	1t	24	LEU
51	1t	37	SER
51	1t	90	GLN
51	1t	100	ILE
52	1u	15	ARG
56	1z	2	THR
3	2D	37	LEU
3	2D	38	LYS
3	2D	88	ARG
3	2D	142	VAL
3	2D	181	GLU
3	2D	183	ARG
3	2D	221	VAL
3	2D	242	ARG
3	2D	259	THR
4	2E	38	THR
4	2E	73	GLU

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Mol	Chain	Res	Type
4	2E	77	ILE
4	2E	87	GLU
4	2E	116	VAL
4	2E	145	LYS
5	2F	9	ILE
5	2F	33	LEU
5	2F	74	ARG
5	2F	145	GLU
5	2F	157	VAL
5	2F	161	GLU
6	2G	4	ASP
6	2G	5	VAL
6	2G	18	GLU
6	2G	28	VAL
6	2G	43	LEU
6	2G	45	GLU
6	2G	51	ARG
6	2G	79	ASN
6	2G	91	ARG
6	2G	115	ARG
6	2G	124	SER
6	2G	130	ASN
6	2G	133	LEU
6	2G	140	ILE
6	2G	150	ASP
6	2G	152	LEU
6	2G	165	THR
7	2H	88	LEU
7	2H	127	GLU
7	2H	129	THR
7	2H	136	ILE
8	2I	2	LYS
8	2I	19	VAL
8	2I	38	LEU
8	2I	51	ILE
8	2I	58	LEU
8	2I	68	LEU
8	2I	75	LEU
8	2I	82	ARG
8	2I	85	GLU
8	2I	87	LYS
8	2I	101	LEU

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Mol	Chain	Res	Type
8	2I	102	SER
8	2I	117	GLU
8	2I	123	LEU
8	2I	127	VAL
9	2N	1	MET
9	2N	8	GLN
9	2N	9	VAL
9	2N	22	THR
9	2N	28	THR
9	2N	61	ARG
9	2N	62	VAL
9	2N	68	GLU
9	2N	83	LYS
10	2O	1	MET
10	2O	22	ILE
10	2O	28	SER
10	2O	66	LYS
10	2O	78	ARG
10	2O	112	MET
10	2O	116	SER
11	2P	29	LYS
11	2P	95	VAL
11	2P	119	GLU
11	2P	125	VAL
11	2P	133	SER
11	2P	135	LEU
11	2P	148	LEU
12	2Q	1	MET
12	2Q	6	ARG
12	2Q	22	LYS
12	2Q	38	GLU
12	2Q	75	THR
13	2R	36	THR
13	2R	114	VAL
14	2S	3	ARG
14	2S	17	ARG
14	2S	26	LEU
14	2S	43	GLU
14	2S	52	SER
14	2S	83	LYS
14	2S	84	GLN
14	2S	110	LEU

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Mol	Chain	Res	Type
15	2T	40	THR
15	2T	66	VAL
15	2T	67	SER
15	2T	72	VAL
15	2T	87	ASP
15	2T	107	ASP
16	2U	5	LYS
16	2U	31	SER
16	2U	74	LEU
16	2U	77	SER
16	2U	95	LEU
17	2V	53	GLU
17	2V	79	VAL
17	2V	98	GLU
18	2W	11	ARG
18	2W	17	VAL
19	2X	38	GLU
20	2Y	6	HIS
20	2Y	14	LEU
20	2Y	26	LYS
20	2Y	99	CYS
21	2Z	6	LYS
21	2Z	33	LEU
21	2Z	42	VAL
21	2Z	67	LEU
21	2Z	71	VAL
21	2Z	72	ARG
21	2Z	121	HIS
21	2Z	129	SER
21	2Z	131	ARG
21	2Z	136	PHE
21	2Z	137	ILE
21	2Z	154	ASP
21	2Z	171	ILE
23	21	40	ARG
23	21	72	GLU
24	22	53	LEU
24	22	70	GLN
25	23	18	ASP
25	23	31	LEU
25	23	34	GLU
25	23	37	LEU

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Mol	Chain	Res	Type
25	23	58	VAL
26	24	5	ILE
26	24	10	VAL
26	24	34	GLU
26	24	37	SER
26	24	53	GLU
26	24	59	PHE
26	24	61	ARG
26	24	63	TYR
26	24	67	TYR
26	24	68	ARG
27	25	40	LYS
27	25	55	ARG
27	25	58	LEU
27	25	59	GLU
28	26	6	ARG
28	26	19	ARG
28	26	20	ASN
28	26	40	CYS
28	26	48	VAL
29	27	1	MET
29	27	23	ARG
29	27	43	THR
29	27	46	VAL
30	28	14	VAL
30	28	31	HIS
30	28	34	TRP
30	28	37	SER
33	2b	7	VAL
33	2b	8	LYS
33	2b	9	GLU
33	2b	11	LEU
33	2b	16	HIS
33	2b	24	TRP
33	2b	35	GLU
33	2b	44	LEU
33	2b	48	MET
33	2b	71	VAL
33	2b	76	GLN
33	2b	82	ARG
33	2b	83	MET
33	2b	93	VAL

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Mol	Chain	Res	Type
33	2b	107	THR
33	2b	110	GLN
33	2b	112	VAL
33	2b	117	GLU
33	2b	127	ILE
33	2b	138	LEU
33	2b	142	LEU
33	2b	150	SER
33	2b	164	VAL
33	2b	185	ILE
33	2b	189	ASP
33	2b	196	LEU
33	2b	224	GLN
33	2b	236	TYR
34	2c	4	LYS
34	2c	15	THR
34	2c	16	ARG
34	2c	26	LYS
34	2c	34	LEU
34	2c	35	GLU
34	2c	91	LEU
34	2c	101	LEU
34	2c	116	VAL
34	2c	132	ARG
34	2c	153	VAL
34	2c	161	GLU
34	2c	190	ARG
35	2d	8	VAL
35	2d	47	ARG
35	2d	53	ASP
35	2d	58	LEU
35	2d	59	ARG
35	2d	76	ARG
35	2d	86	LYS
35	2d	107	ARG
35	2d	127	THR
35	2d	135	LEU
35	2d	150	GLU
35	2d	155	LEU
35	2d	156	GLU
35	2d	175	SER
35	2d	201	GLN

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Mol	Chain	Res	Type
36	2e	11	ILE
36	2e	13	ILE
36	2e	20	GLN
36	2e	38	GLN
36	2e	41	VAL
36	2e	45	PHE
36	2e	51	VAL
36	2e	53	LEU
36	2e	149	GLU
36	2e	151	LEU
37	2f	10	LEU
37	2f	17	SER
37	2f	21	LEU
37	2f	45	LEU
37	2f	63	TYR
37	2f	69	GLU
37	2f	81	ILE
38	2g	6	ARG
38	2g	9	VAL
38	2g	12	LEU
38	2g	13	GLN
38	2g	24	THR
38	2g	32	ARG
38	2g	78	ARG
38	2g	79	ARG
38	2g	85	TYR
38	2g	94	ARG
38	2g	113	GLU
38	2g	115	ARG
38	2g	135	VAL
38	2g	144	MET
38	2g	154	TYR
39	2h	18	ARG
39	2h	25	ASP
39	2h	29	SER
39	2h	37	ARG
39	2h	51	VAL
39	2h	99	GLU
39	2h	112	LEU
39	2h	133	LEU
40	2i	12	GLU
40	2i	27	THR

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Mol	Chain	Res	Type
40	2i	35	GLU
40	2i	38	GLN
40	2i	47	LEU
40	2i	54	ASP
40	2i	65	VAL
40	2i	66	ARG
40	2i	89	ASN
40	2i	102	LEU
40	2i	113	LYS
41	2j	8	LEU
41	2j	16	LEU
41	2j	23	ILE
41	2j	38	ILE
41	2j	66	ARG
41	2j	81	THR
41	2j	89	ASP
41	2j	97	GLU
42	2k	28	THR
42	2k	62	GLN
42	2k	87	THR
42	2k	114	VAL
43	2l	18	VAL
43	2l	33	ARG
43	2l	40	VAL
43	2l	46	LYS
43	2l	47	LYS
43	2l	62	SER
43	2l	65	GLU
43	2l	89	ARG
44	2m	17	VAL
44	2m	32	GLU
44	2m	80	ARG
44	2m	90	LEU
44	2m	93	ARG
44	2m	102	ARG
44	2m	103	THR
44	2m	106	ASN
44	2m	108	ARG
44	2m	122	LYS
45	2n	3	ARG
45	2n	33	VAL
46	2o	3	ILE

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Mol	Chain	Res	Type
46	2o	13	GLN
46	2o	24	SER
46	2o	39	LEU
47	2p	8	ARG
47	2p	20	VAL
47	2p	21	VAL
47	2p	60	LEU
47	2p	73	LEU
48	2q	14	LYS
48	2q	60	ILE
48	2q	63	ARG
49	2r	31	LEU
49	2r	35	ARG
49	2r	41	LYS
49	2r	56	THR
50	2s	21	GLU
50	2s	32	LYS
50	2s	37	ARG
50	2s	43	GLU
50	2s	48	THR
50	2s	81	ARG
51	2t	15	ARG
51	2t	93	GLU
56	2z	2	THR
56	2z	3	HIS
56	2z	5	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (116) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	87	ASN
3	1D	126	GLN
4	1E	48	GLN
5	1F	8	GLN
5	1F	69	HIS
5	1F	203	GLN
6	1G	26	GLN
7	1H	74	ASN
8	1I	133	HIS
9	1N	8	GLN
12	1Q	12	GLN
12	1Q	57	HIS

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Mol	Chain	Res	Type
12	1Q	89	ASN
15	1T	58	ASN
16	1U	81	HIS
16	1U	94	ASN
19	1X	31	HIS
19	1X	82	GLN
21	1Z	54	HIS
24	12	46	GLN
33	1b	16	HIS
33	1b	78	GLN
33	1b	94	ASN
33	1b	140	HIS
33	1b	212	GLN
34	1c	6	HIS
34	1c	37	GLN
34	1c	102	ASN
34	1c	162	GLN
35	1d	45	GLN
35	1d	116	GLN
35	1d	125	HIS
35	1d	160	GLN
35	1d	161	ASN
36	1e	38	GLN
37	1f	57	GLN
37	1f	73	ASN
37	1f	100	ASN
38	1g	13	GLN
38	1g	28	ASN
39	1h	15	ASN
40	1i	3	GLN
40	1i	31	GLN
40	1i	34	ASN
40	1i	58	HIS
40	1i	124	GLN
41	1j	56	HIS
41	1j	62	HIS
42	1k	104	GLN
43	1l	99	HIS
44	1m	92	HIS
49	1r	63	GLN
50	1s	83	HIS
51	1t	16	HIS

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Mol	Chain	Res	Type
51	1t	42	GLN
51	1t	90	GLN
56	1z	3	HIS
3	2D	87	ASN
4	2E	48	GLN
4	2E	143	ASN
5	2F	69	HIS
5	2F	75	HIS
5	2F	204	ASN
6	2G	41	GLN
6	2G	132	ASN
7	2H	139	GLN
9	2N	8	GLN
10	2O	3	GLN
10	2O	5	GLN
12	2Q	12	GLN
12	2Q	89	ASN
12	2Q	123	HIS
14	2S	38	GLN
14	2S	95	HIS
15	2T	58	ASN
15	2T	84	GLN
16	2U	94	ASN
19	2X	31	HIS
19	2X	82	GLN
20	2Y	6	HIS
21	2Z	34	ASN
21	2Z	73	GLN
22	20	50	ASN
25	23	32	GLN
26	24	46	GLN
33	2b	76	GLN
33	2b	94	ASN
33	2b	135	GLN
34	2c	162	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	119	GLN
35	2d	123	HIS
35	2d	125	HIS
36	2e	38	GLN
36	2e	78	HIS

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Mol	Chain	Res	Type
37	2f	73	ASN
37	2f	100	ASN
38	2g	13	GLN
38	2g	28	ASN
38	2g	68	ASN
40	2i	3	GLN
40	2i	31	GLN
41	2j	33	GLN
41	2j	62	HIS
42	2k	104	GLN
42	2k	117	ASN
43	2l	99	HIS
44	2m	92	HIS
47	2p	16	HIS
47	2p	76	GLN
49	2r	63	GLN
50	2s	69	HIS
50	2s	83	HIS
51	2t	75	ASN
51	2t	90	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2862/2915 (98%)	404 (14%)	29 (1%)
1	2A	2789/2915 (95%)	431 (15%)	23 (0%)
2	1B	119/121 (98%)	9 (7%)	0
2	2B	118/121 (97%)	24 (20%)	0
32	1a	1494/1521 (98%)	226 (15%)	0
32	2a	1498/1521 (98%)	255 (17%)	0
53	1v	12/24 (50%)	2 (16%)	0
53	2v	12/24 (50%)	3 (25%)	0
54	1w	70/76 (92%)	18 (25%)	0
54	2w	67/76 (88%)	18 (26%)	0
55	1x	75/77 (97%)	7 (9%)	0
55	2x	75/77 (97%)	6 (8%)	0
57	1y	71/76 (93%)	29 (40%)	0
57	2y	69/76 (90%)	24 (34%)	0
All	All	9331/9620 (96%)	1456 (15%)	52 (0%)

All (1456) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	34	C
1	1A	36	G
1	1A	45	C
1	1A	71	A
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	95	G
1	1A	119	A
1	1A	120	U
1	1A	139(A)	G
1	1A	196	A
1	1A	205	G
1	1A	214	G
1	1A	215	G
1	1A	216	A
1	1A	221	A
1	1A	222	A
1	1A	229	A
1	1A	233	A
1	1A	248	G
1	1A	265	A
1	1A	269	U
1	1A	271(C)	C
1	1A	271(K)	U
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(N)	U
1	1A	271(O)	C
1	1A	271(P)	C
1	1A	272(B)	G
1	1A	272(G)	C
1	1A	272(I)	U
1	1A	275	G
1	1A	279	C
1	1A	311	A
1	1A	329	G
1	1A	330	A
1	1A	352	G
1	1A	353	G
1	1A	357	A
1	1A	363	G

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Mol	Chain	Res	Type
1	1A	370	G
1	1A	386	G
1	1A	405	U
1	1A	411	G
1	1A	412	A
1	1A	428	A
1	1A	444	C
1	1A	448	U
1	1A	451	C
1	1A	455	C
1	1A	456	C
1	1A	457	A
1	1A	481	G
1	1A	494	G
1	1A	504	U
1	1A	505	A
1	1A	508	G
1	1A	509	C
1	1A	530	G
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	563	G
1	1A	573	G
1	1A	575	A
1	1A	586	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	651	G
1	1A	652(E)	G
1	1A	652(T)	C
1	1A	669	G

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Mol	Chain	Res	Type
1	1A	686	G
1	1A	717	G
1	1A	730	C
1	1A	764	A
1	1A	765	G
1	1A	774	A
1	1A	775	G
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	888	C
1	1A	889	C
1	1A	890	A
1	1A	893	C
1	1A	894	C
1	1A	895	U
1	1A	896	A
1	1A	897	C
1	1A	899	A
1	1A	910	A
1	1A	932	G
1	1A	945	A
1	1A	946	G

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Mol	Chain	Res	Type
1	1A	953	A
1	1A	959	A
1	1A	961	C
1	1A	963	U
1	1A	974	G
1	1A	975	C
1	1A	983	A
1	1A	996	A
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	1054	A
1	1A	1055	G
1	1A	1058	G
1	1A	1060	U
1	1A	1063	G
1	1A	1068	G
1	1A	1069	A
1	1A	1071	G
1	1A	1073	A
1	1A	1074	G
1	1A	1075	C
1	1A	1076	C
1	1A	1078	U
1	1A	1079	C
1	1A	1081	U
1	1A	1088	A
1	1A	1089	G
1	1A	1090	U
1	1A	1091	G
1	1A	1093	G
1	1A	1094	U
1	1A	1097	U
1	1A	1098	A

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Mol	Chain	Res	Type
1	1A	1099	G
1	1A	1106	G
1	1A	1110	G
1	1A	1112	G
1	1A	1116	C
1	1A	1117	G
1	1A	1135	C
1	1A	1136	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	1220	A
1	1A	1253	A
1	1A	1256	G
1	1A	1271	G
1	1A	1272	A
1	1A	1273	U
1	1A	1300	U
1	1A	1301	A
1	1A	1303	G
1	1A	1319	G
1	1A	1345	C
1	1A	1352	U
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1380	G
1	1A	1384	A
1	1A	1385	G
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	1459	G
1	1A	1467	C

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Mol	Chain	Res	Type
1	1A	1482	G
1	1A	1493	C
1	1A	1494	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1543	C
1	1A	1558	A
1	1A	1569	A
1	1A	1578	U
1	1A	1581	G
1	1A	1584	C
1	1A	1586	A
1	1A	1608	A
1	1A	1647	G
1	1A	1648	C
1	1A	1674	G
1	1A	1700	A
1	1A	1703	G
1	1A	1722	A
1	1A	1739	U
1	1A	1756	G
1	1A	1763	G
1	1A	1764	G
1	1A	1773	A
1	1A	1780	A
1	1A	1782	C
1	1A	1791	A
1	1A	1800	C
1	1A	1801	G
1	1A	1816	G
1	1A	1828	G
1	1A	1829	A
1	1A	1847	A
1	1A	1848	A
1	1A	1878	G
1	1A	1889	A
1	1A	1900	A
1	1A	1906	G
1	1A	1929	G
1	1A	1930	G
1	1A	1937	A
1	1A	1938	A

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Mol	Chain	Res	Type
1	1A	1955	U
1	1A	1963	U
1	1A	1965	C
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	2062	A
1	1A	2069	G
1	1A	2101	G
1	1A	2102	U
1	1A	2110	G
1	1A	2113	U
1	1A	2116	G
1	1A	2121	G
1	1A	2127	G
1	1A	2130	U
1	1A	2131	G
1	1A	2132	U
1	1A	2133	G
1	1A	2134	A
1	1A	2135	A
1	1A	2136	C
1	1A	2137	C
1	1A	2140	C
1	1A	2142	C
1	1A	2143	C
1	1A	2144	U
1	1A	2146	C

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Mol	Chain	Res	Type
1	1A	2150	U
1	1A	2151	G
1	1A	2155	G
1	1A	2156	G
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2160	G
1	1A	2161	C
1	1A	2163	C
1	1A	2165	G
1	1A	2166	G
1	1A	2168	G
1	1A	2171	A
1	1A	2172	U
1	1A	2173	A
1	1A	2174	C
1	1A	2180	U
1	1A	2181	G
1	1A	2182	G
1	1A	2184	G
1	1A	2189	U
1	1A	2190	G
1	1A	2192	G
1	1A	2198	A
1	1A	2206	G
1	1A	2207	G
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2267	A
1	1A	2268	A
1	1A	2280	G
1	1A	2283	C
1	1A	2287	A
1	1A	2289	G
1	1A	2305	A
1	1A	2308	G
1	1A	2320	A
1	1A	2325	G
1	1A	2334	G
1	1A	2336	A

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Mol	Chain	Res	Type
1	1A	2347	C
1	1A	2350	C
1	1A	2361	A
1	1A	2372	G
1	1A	2383	G
1	1A	2385	C
1	1A	2406	U
1	1A	2422	A
1	1A	2424	C
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2431	U
1	1A	2435	A
1	1A	2439	A
1	1A	2441	C
1	1A	2448	A
1	1A	2468	G
1	1A	2474	C
1	1A	2476	A
1	1A	2478	A
1	1A	2491	U
1	1A	2502	G
1	1A	2505	G
1	1A	2518	A
1	1A	2529	G
1	1A	2535	G
1	1A	2549	G
1	1A	2554	U
1	1A	2566	A
1	1A	2567	G
1	1A	2573	C
1	1A	2602	A
1	1A	2611	U
1	1A	2612	C
1	1A	2629	A
1	1A	2630	G
1	1A	2641	G
1	1A	2654	A
1	1A	2669	G
1	1A	2689	U
1	1A	2691	C

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Mol	Chain	Res	Type
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A
1	1A	2714	G
1	1A	2726	U
1	1A	2733	A
1	1A	2757	A
1	1A	2765	A
1	1A	2778	A
1	1A	2790	A
1	1A	2791	C
1	1A	2802	G
1	1A	2803	C
1	1A	2805	G
1	1A	2818	G
1	1A	2820	A
1	1A	2821	A
1	1A	2825	C
1	1A	2835	A
1	1A	2839	G
1	1A	2872	G
1	1A	2880	C
1	1A	2892	A
1	1A	2894	G
1	1A	2895	U
2	1B	13	A
2	1B	32	C
2	1B	35	U
2	1B	45	A
2	1B	50	G
2	1B	56	G
2	1B	73	A
2	1B	84	C
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	22	G
32	1a	32	A
32	1a	39	G
32	1a	48	C
32	1a	50	A
32	1a	51	A

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Mol	Chain	Res	Type
32	1a	52	G
32	1a	61	G
32	1a	68	G
32	1a	77	G
32	1a	78	G
32	1a	79	G
32	1a	91	C
32	1a	98	G
32	1a	116	A
32	1a	121	C
32	1a	131	C
32	1a	139	G
32	1a	144	G
32	1a	154	C
32	1a	164	U
32	1a	174	C
32	1a	182	U
32	1a	189(G)	G
32	1a	189(H)	G
32	1a	195	A
32	1a	197	A
32	1a	203	U
32	1a	204	U
32	1a	218	C
32	1a	247	G
32	1a	251	G
32	1a	258	G
32	1a	262	A
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	301	G
32	1a	306	G
32	1a	321	A
32	1a	328	C
32	1a	330	C
32	1a	332	G
32	1a	342	C
32	1a	351	G
32	1a	352	C
32	1a	353	A
32	1a	354	G

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Mol	Chain	Res	Type
32	1a	355	C
32	1a	367	U
32	1a	372	C
32	1a	373	A
32	1a	384	G
32	1a	388	G
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	413	G
32	1a	422	C
32	1a	424	G
32	1a	429	U
32	1a	439	A
32	1a	442	C
32	1a	452	A
32	1a	458	C
32	1a	461	A
32	1a	470	C
32	1a	485	G
32	1a	496	A
32	1a	498	U
32	1a	505	G
32	1a	509	A
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	521	G
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	607	A
32	1a	630	G
32	1a	653	A

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Mol	Chain	Res	Type
32	1a	657	G
32	1a	665	A
32	1a	687	A
32	1a	688	G
32	1a	693	G
32	1a	703	G
32	1a	723	U
32	1a	731	G
32	1a	734	G
32	1a	749	C
32	1a	753	A
32	1a	755	G
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	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	857	C
32	1a	870	U
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
32	1a	934	C
32	1a	960	U
32	1a	961	U
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	972	C
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	992	U
32	1a	993	G
32	1a	996	A

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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	1013	G
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	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	1039	C
32	1a	1044	A
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	1111	A
32	1a	1123	A
32	1a	1124	G
32	1a	1125	U
32	1a	1134	G
32	1a	1135	U
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1146	A
32	1a	1152	A
32	1a	1159	U
32	1a	1174	G
32	1a	1176	A

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Mol	Chain	Res	Type
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1201	A
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1214	C
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1250	A
32	1a	1253	G
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1260	C
32	1a	1270	C
32	1a	1275	A
32	1a	1278	U
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U
32	1a	1320	C
32	1a	1338	G
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1363(A)	A
32	1a	1370	G
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1442(B)	A
32	1a	1446	U
32	1a	1447	A
32	1a	1452	C

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Mol	Chain	Res	Type
32	1a	1456	G
32	1a	1492	A
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	24	A
54	1w	2	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	23	A
54	1w	24	G
54	1w	34	G
54	1w	45	U
54	1w	46	G7M
54	1w	47	U
54	1w	62	C
54	1w	68	C
54	1w	70	G
54	1w	73	A
54	1w	74	C
55	1x	9	G
55	1x	13	C
55	1x	19	G
55	1x	20	U
55	1x	21	A
55	1x	47	U
55	1x	61	C
57	1y	5	G
57	1y	7	A
57	1y	9	A
57	1y	12	U
57	1y	13	C
57	1y	14	A
57	1y	19	G

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Mol	Chain	Res	Type
57	1y	20	U
57	1y	21	A
57	1y	22	G
57	1y	27	G
57	1y	28	G
57	1y	35	A
57	1y	44	G
57	1y	45	U
57	1y	46	G7M
57	1y	47	U
57	1y	48	C
57	1y	53	G
57	1y	54	5MU
57	1y	56	C
57	1y	57	G
57	1y	58	A
57	1y	59	U
57	1y	61	C
57	1y	66	U
57	1y	70	G
57	1y	71	G
57	1y	72	C
1	2A	12	U
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	92	A
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	141	A
1	2A	157	U
1	2A	173	G
1	2A	196	A
1	2A	199	A

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Mol	Chain	Res	Type
1	2A	205	G
1	2A	215	G
1	2A	216	A
1	2A	221	A
1	2A	222	A
1	2A	228	A
1	2A	229	A
1	2A	230	U
1	2A	232	G
1	2A	233	A
1	2A	248	G
1	2A	271(I)	G
1	2A	271(J)	C
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	271(O)	C
1	2A	271(P)	C
1	2A	272(B)	G
1	2A	272(J)	C
1	2A	274	G
1	2A	277	C
1	2A	278	A
1	2A	294	A
1	2A	311	A
1	2A	312	G
1	2A	324	A
1	2A	327	G
1	2A	329	G
1	2A	330	A
1	2A	352	G
1	2A	363	G
1	2A	363(B)	G
1	2A	386	G
1	2A	405	U
1	2A	411	G
1	2A	412	A
1	2A	421	U
1	2A	435	C
1	2A	440	G
1	2A	444	C

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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	504	U
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	556	G
1	2A	563	G
1	2A	573	G
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	627	A
1	2A	637	A
1	2A	645	C
1	2A	646	A
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	668	G
1	2A	669	G
1	2A	686	G
1	2A	701	G
1	2A	717	G
1	2A	730	C
1	2A	739	G
1	2A	752	A
1	2A	753	C
1	2A	775	G
1	2A	776	G

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Mol	Chain	Res	Type
1	2A	782	A
1	2A	783	A
1	2A	784	A
1	2A	785	G
1	2A	790	C
1	2A	792	G
1	2A	805	G
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	859	G
1	2A	866	A
1	2A	874	G
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	882	G
1	2A	884	C
1	2A	886	C
1	2A	888	C
1	2A	889	C
1	2A	892	G
1	2A	893	C
1	2A	894	C
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	903	C
1	2A	910	A
1	2A	917	A
1	2A	932	G
1	2A	936	C
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	1005	C
1	2A	1012	U
1	2A	1013	C
1	2A	1017	G
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U
1	2A	1027	A
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1041	C
1	2A	1114	G
1	2A	1116	C
1	2A	1117	G
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1171	G
1	2A	1195	G
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1236	G
1	2A	1244	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1287	A
1	2A	1300	U
1	2A	1301	A
1	2A	1314	C
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1370	C
1	2A	1380	G

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Mol	Chain	Res	Type
1	2A	1384	A
1	2A	1385	G
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U
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	1460	A
1	2A	1467	C
1	2A	1471	A
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1494	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	1533	G
1	2A	1543	C
1	2A	1547	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1580	A
1	2A	1583	A
1	2A	1584	C
1	2A	1608	A
1	2A	1609	A
1	2A	1610	A
1	2A	1640	C
1	2A	1648	C
1	2A	1654	A
1	2A	1674	G

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Mol	Chain	Res	Type
1	2A	1696	G
1	2A	1700	A
1	2A	1701	A
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1739	U
1	2A	1740	G
1	2A	1741	A
1	2A	1746	G
1	2A	1756	G
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1782	C
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1816	G
1	2A	1828	G
1	2A	1829	A
1	2A	1835	G
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	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1967	C
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1992	G
1	2A	1993	U

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Mol	Chain	Res	Type
1	2A	1997	G
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	2062	A
1	2A	2069	G
1	2A	2099	U
1	2A	2110	G
1	2A	2111	C
1	2A	2113	U
1	2A	2115	G
1	2A	2116	G
1	2A	2117	A
1	2A	2119	A
1	2A	2120	G
1	2A	2122	U
1	2A	2126	A
1	2A	2127	G
1	2A	2129	C
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G
1	2A	2134	A
1	2A	2135	A
1	2A	2137	C
1	2A	2138	C
1	2A	2140	C
1	2A	2142	C
1	2A	2145	C
1	2A	2149	G
1	2A	2150	U
1	2A	2151	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A
1	2A	2161	C

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Mol	Chain	Res	Type
1	2A	2165	G
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2172	U
1	2A	2173	A
1	2A	2174	C
1	2A	2176	A
1	2A	2178	C
1	2A	2184	G
1	2A	2185	C
1	2A	2186	G
1	2A	2187	G
1	2A	2189	U
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	2268	A
1	2A	2275	C
1	2A	2280	G
1	2A	2283	C
1	2A	2287	A
1	2A	2305	A
1	2A	2308	G
1	2A	2319	G
1	2A	2320	A
1	2A	2325	G
1	2A	2327	A
1	2A	2334	G
1	2A	2336	A
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2383	G
1	2A	2385	C
1	2A	2388	A

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Mol	Chain	Res	Type
1	2A	2403	C
1	2A	2406	U
1	2A	2425	A
1	2A	2429	G
1	2A	2430	A
1	2A	2431	U
1	2A	2434	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2448	A
1	2A	2459	A
1	2A	2468	G
1	2A	2469	A
1	2A	2474	C
1	2A	2476	A
1	2A	2478	A
1	2A	2487	G
1	2A	2490	G
1	2A	2491	U
1	2A	2494	G
1	2A	2502	G
1	2A	2505	G
1	2A	2507	C
1	2A	2518	A
1	2A	2520	C
1	2A	2529	G
1	2A	2530	A
1	2A	2549	G
1	2A	2554	U
1	2A	2566	A
1	2A	2567	G
1	2A	2573	C
1	2A	2582	G
1	2A	2602	A
1	2A	2609	U
1	2A	2611	U
1	2A	2612	C
1	2A	2630	G
1	2A	2634	G
1	2A	2654	A
1	2A	2656	U

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Mol	Chain	Res	Type
1	2A	2689	U
1	2A	2690	C
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2726	U
1	2A	2733	A
1	2A	2751	G
1	2A	2757	A
1	2A	2758	A
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2793	G
1	2A	2794	C
1	2A	2802	G
1	2A	2803	C
1	2A	2810	A
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A
1	2A	2833	G
1	2A	2835	A
1	2A	2839	G
1	2A	2872	G
1	2A	2873	A
1	2A	2880	C
1	2A	2892	A
1	2A	2894	G
1	2A	2897	U
2	2B	2	C
2	2B	8	U
2	2B	9	G
2	2B	13	A
2	2B	17	C
2	2B	20	C
2	2B	33	G
2	2B	34	U
2	2B	40	U

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Mol	Chain	Res	Type
2	2B	41	U
2	2B	45	A
2	2B	51	G
2	2B	53	A
2	2B	56	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	105	A
2	2B	106	G
2	2B	109	C
2	2B	110	G
2	2B	111	G
2	2B	119	G
2	2B	120	A
32	2a	9	G
32	2a	22	G
32	2a	31	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	65	U
32	2a	66	G
32	2a	76	C
32	2a	79	G
32	2a	80	G
32	2a	88	A
32	2a	89	C
32	2a	101	A
32	2a	116	A
32	2a	121	C
32	2a	131	C
32	2a	156	G
32	2a	161	A
32	2a	163	C
32	2a	182	U
32	2a	195	A
32	2a	197	A

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Mol	Chain	Res	Type
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	217	C
32	2a	231	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G
32	2a	267	C
32	2a	289	G
32	2a	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	400	C
32	2a	406	G
32	2a	412	A
32	2a	413	G
32	2a	421	U
32	2a	423	G
32	2a	429	U
32	2a	430	A
32	2a	439	A
32	2a	442	C
32	2a	452	A
32	2a	470	C
32	2a	471	G
32	2a	484	G

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Mol	Chain	Res	Type
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	524	G
32	2a	527	G7M
32	2a	528	C
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	545	C
32	2a	547	A
32	2a	559	A
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	607	A
32	2a	630	G
32	2a	631	G
32	2a	653	A
32	2a	661	G
32	2a	665	A
32	2a	666	G
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	723	U
32	2a	731	G
32	2a	733	A
32	2a	749	C
32	2a	755	G
32	2a	774	G
32	2a	777	A
32	2a	793	U
32	2a	794	A

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Mol	Chain	Res	Type
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	874	G
32	2a	884	U
32	2a	887	G
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	934	C
32	2a	935	A
32	2a	958	A
32	2a	960	U
32	2a	961	U
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	972	C
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	984	C
32	2a	991	U
32	2a	992	U
32	2a	993	G
32	2a	994	A
32	2a	997	U
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	1008	C
32	2a	1009	G
32	2a	1011	G
32	2a	1016	A

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Mol	Chain	Res	Type
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	1030	C
32	2a	1030(A)	G
32	2a	1031	G
32	2a	1032	G
32	2a	1037	C
32	2a	1039	C
32	2a	1040	U
32	2a	1044	A
32	2a	1050	G
32	2a	1051	C
32	2a	1053	G
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	1101	A
32	2a	1104	G
32	2a	1108	G
32	2a	1117	G
32	2a	1122	U
32	2a	1125	U
32	2a	1128	C
32	2a	1129	C
32	2a	1130	A
32	2a	1133	G
32	2a	1136	U
32	2a	1137	C

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Mol	Chain	Res	Type
32	2a	1138	G
32	2a	1139	G
32	2a	1140	C
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	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
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	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1270	C
32	2a	1272	G
32	2a	1277	C
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1286	A
32	2a	1287	A
32	2a	1299	A
32	2a	1302	U
32	2a	1303	C
32	2a	1305	G
32	2a	1312	G
32	2a	1320	C
32	2a	1338	G
32	2a	1340	A
32	2a	1346	A
32	2a	1347	G
32	2a	1353	G

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Mol	Chain	Res	Type
32	2a	1363	C
32	2a	1370	G
32	2a	1379	G
32	2a	1394	A
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1452	C
32	2a	1456	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	14	A
53	2v	24	A
54	2w	3	C
54	2w	4	C
54	2w	9	A
54	2w	13	C
54	2w	14	A
54	2w	19	G
54	2w	22	G
54	2w	29	G
54	2w	46	G7M
54	2w	48	C
54	2w	50	U
54	2w	65	G
54	2w	66	U
54	2w	68	C
54	2w	69	G
54	2w	70	G
54	2w	72	C
54	2w	74	C
55	2x	9	G
55	2x	21	A
55	2x	47	U

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Mol	Chain	Res	Type
55	2x	52	G
55	2x	53	G
55	2x	61	C
57	2y	12	U
57	2y	14	A
57	2y	15	G
57	2y	19	G
57	2y	24	G
57	2y	27	G
57	2y	28	G
57	2y	43	C
57	2y	45	U
57	2y	48	C
57	2y	49	C
57	2y	52	G
57	2y	53	G
57	2y	54	5MU
57	2y	56	C
57	2y	57	G
57	2y	58	A
57	2y	59	U
57	2y	61	C
57	2y	63	G
57	2y	65	G
57	2y	69	G
57	2y	70	G
57	2y	71	G

All (52) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	195	A
1	1A	196	A
1	1A	266	G
1	1A	271(J)	C
1	1A	278	A
1	1A	548	A
1	1A	573	G
1	1A	685	A
1	1A	746	A
1	1A	764	A
1	1A	774	A

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Mol	Chain	Res	Type
1	1A	974	G
1	1A	1067	A
1	1A	1174	A
1	1A	1176	G
1	1A	1379	A
1	1A	1420	U
1	1A	1442	G
1	1A	1508	A
1	1A	1608	A
1	1A	1762	A
1	1A	1992	G
1	1A	2170	A
1	1A	2183	C
1	1A	2406	U
1	1A	2430	A
1	1A	2439	A
1	1A	2629	A
1	1A	2756	U
1	2A	196	A
1	2A	228	A
1	2A	266	G
1	2A	271(K)	U
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	752	A
1	2A	774	A
1	2A	827	U
1	2A	900	A
1	2A	1210	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1653	G
1	2A	1992	G
1	2A	2119	A
1	2A	2126	A
1	2A	2430	A
1	2A	2439	A
1	2A	2689	U
1	2A	2756	U

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
32	MA6	1a	1518	32	19,26,27	1.02	2 (10%)	18,38,41	1.90	3 (16%)
54	G7M	1w	46	54	20,26,27	1.26	2 (10%)	16,39,42	0.60	0
32	5MC	1a	1400	32	19,22,23	1.64	3 (15%)	26,32,35	1.11	2 (7%)
1	5MC	1A	1962	58,1	19,22,23	1.68	3 (15%)	26,32,35	1.20	3 (11%)
1	PSU	1A	1911	1	18,21,22	1.37	2 (11%)	21,30,33	2.10	6 (28%)
1	PSU	1A	2605	58,1	18,21,22	1.49	3 (16%)	21,30,33	1.94	5 (23%)
54	4SU	2w	8	54	18,21,22	1.66	3 (16%)	25,30,33	2.37	5 (20%)
54	PSU	1w	32	54,58	18,21,22	1.35	2 (11%)	21,30,33	2.04	5 (23%)
57	5MU	1y	54	57	19,22,23	1.49	4 (21%)	27,32,35	2.09	6 (22%)
57	4SU	2y	8	57	18,21,22	1.80	4 (22%)	25,30,33	1.70	4 (16%)
57	PSU	2y	55	57	18,21,22	1.39	3 (16%)	21,30,33	1.95	5 (23%)
32	UR3	1a	1498	32	19,22,23	0.98	2 (10%)	26,32,35	1.77	4 (15%)
1	PSU	2A	1911	1	18,21,22	1.38	2 (11%)	21,30,33	2.12	4 (19%)
54	5MU	2w	54	54	19,22,23	1.30	4 (21%)	27,32,35	1.91	7 (25%)
54	MIA	2w	37	54	19,27,32	1.91	3 (15%)	18,39,47	1.50	5 (27%)
55	5MU	1x	54	55	19,22,23	1.46	4 (21%)	27,32,35	1.90	6 (22%)
54	PSU	1w	39	54	18,21,22	1.38	2 (11%)	21,30,33	1.80	3 (14%)
32	PSU	2a	516	58,32	18,21,22	1.32	2 (11%)	21,30,33	2.10	4 (19%)
1	8AH	2A	2503	58,1	18,26,27	0.62	0	22,39,42	1.89	4 (18%)
32	5MC	1a	967	32	19,22,23	1.71	2 (10%)	26,32,35	1.09	2 (7%)
56	FME	1z	1	56	8,9,10	1.00	0	8,9,11	1.58	1 (12%)
55	5MU	2x	54	55	19,22,23	1.38	5 (26%)	27,32,35	2.17	6 (22%)
54	F3N	2w	76	54,1	29,36,37	1.40	5 (17%)	28,51,54	1.48	2 (7%)
57	G7M	2y	46	57	20,26,27	1.37	2 (10%)	16,39,42	0.64	0
1	OMC	2A	1920	1	19,22,23	0.81	0	25,31,34	0.92	1 (4%)
1	5MU	1A	1915	1	19,22,23	1.36	4 (21%)	27,32,35	2.13	7 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
55	8AN	1x	76	58,56,55	17,24,25	1.18	1 (5%)	13,35,38	3.68	3 (23%)
32	2MG	1a	1207	32	18,26,27	0.93	1 (5%)	16,38,41	1.33	3 (18%)
1	PSU	2A	1917	1	18,21,22	1.34	2 (11%)	21,30,33	1.96	4 (19%)
57	PSU	1y	39	57	18,21,22	1.41	2 (11%)	21,30,33	1.82	4 (19%)
1	5MC	1A	1942	1	19,22,23	1.76	3 (15%)	26,32,35	1.22	3 (11%)
57	PSU	1y	32	57	18,21,22	1.35	2 (11%)	21,30,33	1.95	3 (14%)
32	4OC	2a	1402	32	20,23,24	0.80	0	25,32,35	0.97	1 (4%)
32	5MC	1a	1407	32	19,22,23	1.63	3 (15%)	26,32,35	1.17	3 (11%)
32	MA6	2a	1518	32	19,26,27	1.01	2 (10%)	18,38,41	1.96	3 (16%)
54	PSU	2w	55	54	18,21,22	1.36	2 (11%)	21,30,33	1.97	3 (14%)
57	PSU	1y	55	57	18,21,22	1.42	2 (11%)	21,30,33	2.06	3 (14%)
1	PSU	2A	2605	1	18,21,22	1.27	2 (11%)	21,30,33	2.28	4 (19%)
1	5MC	2A	1942	1	19,22,23	1.63	3 (15%)	26,32,35	1.09	2 (7%)
43	0TD	2l	92	43	8,9,10	4.55	2 (25%)	6,11,13	5.17	3 (50%)
55	PSU	1x	55	55	18,21,22	1.35	2 (11%)	21,30,33	1.99	4 (19%)
1	OMC	1A	1920	1	19,22,23	0.76	0	25,31,34	0.87	0
32	M2G	1a	966	32	20,27,28	1.38	3 (15%)	19,40,43	1.09	2 (10%)
56	FME	2z	1	56	8,9,10	0.97	0	8,9,11	1.32	2 (25%)
32	G7M	1a	527	58,32	20,26,27	1.16	2 (10%)	16,39,42	0.64	0
57	PSU	2y	39	57	18,21,22	1.36	2 (11%)	21,30,33	1.93	3 (14%)
1	5MU	1A	1939	58,1	19,22,23	1.60	6 (31%)	27,32,35	2.12	7 (25%)
54	4SU	1w	8	54	18,21,22	1.76	4 (22%)	25,30,33	2.14	4 (16%)
1	5MC	2A	1962	58,1	19,22,23	1.57	3 (15%)	26,32,35	1.25	3 (11%)
32	4OC	1a	1402	32	20,23,24	0.74	0	25,32,35	0.96	1 (4%)
55	5MC	1x	32	55	19,22,23	1.65	3 (15%)	26,32,35	1.22	3 (11%)
32	5MC	2a	967	32	19,22,23	1.61	3 (15%)	26,32,35	1.13	4 (15%)
1	OMG	1A	2251	58,55,1	19,26,27	0.90	1 (5%)	21,38,41	1.01	1 (4%)
54	PSU	1w	55	54	18,21,22	1.31	2 (11%)	21,30,33	2.12	4 (19%)
32	MA6	2a	1519	32	19,26,27	1.04	2 (10%)	18,38,41	2.01	3 (16%)
55	4SU	2x	8	55	18,21,22	2.13	6 (33%)	25,30,33	1.34	5 (20%)
57	G7M	1y	46	57	20,26,27	1.30	1 (5%)	16,39,42	0.54	0
57	5MU	2y	54	57	19,22,23	1.46	5 (26%)	27,32,35	1.93	6 (22%)
54	MIA	1w	37	54	24,31,32	2.07	3 (12%)	22,44,47	2.70	7 (31%)
1	OMG	2A	2251	58,55,1	19,26,27	0.91	1 (5%)	21,38,41	1.15	2 (9%)
1	2MU	1A	2552	58,1	19,22,24	1.20	2 (10%)	25,31,36	1.83	6 (24%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	5MC	2a	1407	58,32	19,22,23	1.61	3 (15%)	26,32,35	1.22	3 (11%)
55	8AN	2x	76	58,56,55	17,24,25	1.13	2 (11%)	13,35,38	3.32	4 (30%)
55	PSU	2x	55	55	18,21,22	1.38	3 (16%)	21,30,33	1.95	4 (19%)
32	2MG	2a	1207	58,32	18,26,27	0.93	1 (5%)	16,38,41	1.41	3 (18%)
32	PSU	1a	516	58,32	18,21,22	1.39	2 (11%)	21,30,33	2.08	6 (28%)
1	5MU	2A	1915	1	19,22,23	1.42	6 (31%)	27,32,35	2.30	6 (22%)
54	F3N	1w	76	54,1	29,36,37	1.41	4 (13%)	28,51,54	1.46	2 (7%)
1	2MU	2A	2552	58,1	19,22,24	1.24	3 (15%)	25,31,36	1.83	6 (24%)
32	M2G	2a	966	32	20,27,28	1.29	2 (10%)	19,40,43	1.06	1 (5%)
32	G7M	2a	527	58,32	20,26,27	1.22	2 (10%)	16,39,42	0.50	0
55	4SU	1x	8	55	18,21,22	2.34	6 (33%)	25,30,33	1.77	6 (24%)
57	PSU	2y	32	57	18,21,22	1.36	2 (11%)	21,30,33	2.03	3 (14%)
57	4SU	1y	8	57	18,21,22	1.73	5 (27%)	25,30,33	1.81	4 (16%)
1	8AH	1A	2503	58,1	18,26,27	0.58	0	22,39,42	1.88	3 (13%)
32	5MC	2a	1404	32	19,22,23	1.79	3 (15%)	26,32,35	1.18	2 (7%)
54	G7M	2w	46	54	20,26,27	1.24	1 (5%)	16,39,42	0.57	0
43	0TD	1l	92	43	8,9,10	4.48	1 (12%)	6,11,13	2.11	3 (50%)
54	PSU	2w	32	54	18,21,22	1.36	2 (11%)	21,30,33	1.99	4 (19%)
57	MIA	2y	37	57	17,24,32	0.98	1 (5%)	16,35,47	1.23	2 (12%)
32	MA6	1a	1519	32	19,26,27	1.04	2 (10%)	18,38,41	1.98	3 (16%)
54	5MU	1w	54	54	19,22,23	1.42	5 (26%)	27,32,35	1.99	6 (22%)
1	5MU	2A	1939	58,1	19,22,23	1.48	6 (31%)	27,32,35	2.23	6 (22%)
54	PSU	2w	39	54	18,21,22	1.49	2 (11%)	21,30,33	1.54	4 (19%)
1	PSU	1A	1917	1	18,21,22	1.33	2 (11%)	21,30,33	2.07	3 (14%)
57	MIA	1y	37	57	17,24,32	1.03	1 (5%)	16,35,47	1.30	2 (12%)
32	5MC	2a	1400	32	19,22,23	1.71	3 (15%)	26,32,35	1.25	4 (15%)
55	5MC	2x	32	55	19,22,23	1.56	3 (15%)	26,32,35	1.25	3 (11%)
32	5MC	1a	1404	32	19,22,23	1.63	3 (15%)	26,32,35	1.12	2 (7%)
32	UR3	2a	1498	32	19,22,23	1.07	1 (5%)	26,32,35	1.73	3 (11%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MA6	1a	1518	32	-	0/7/29/30	0/3/3/3
54	G7M	1w	46	54	-	1/3/25/26	0/3/3/3
32	5MC	1a	1400	32	-	1/7/25/26	0/2/2/2
1	5MC	1A	1962	58,1	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	58,1	-	0/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
54	PSU	1w	32	54,58	-	0/7/25/26	0/2/2/2
57	5MU	1y	54	57	-	2/7/25/26	0/2/2/2
57	4SU	2y	8	57	-	0/7/25/26	0/2/2/2
57	PSU	2y	55	57	-	2/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	2/7/29/34	0/3/3/3
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	58,32	-	0/7/25/26	0/2/2/2
1	8AH	2A	2503	58,1	-	0/3/25/26	0/3/3/3
32	5MC	1a	967	32	-	1/7/25/26	0/2/2/2
56	FME	1z	1	56	-	3/7/9/11	-
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
54	F3N	2w	76	54,1	-	0/15/37/38	0/4/4/4
57	G7M	2y	46	57	-	1/3/25/26	0/3/3/3
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2
55	8AN	1x	76	58,56,55	-	3/3/25/26	0/3/3/3
32	2MG	1a	1207	32	-	2/5/27/28	0/3/3/3
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
57	PSU	1y	39	57	-	0/7/25/26	0/2/2/2
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
57	PSU	1y	32	57	-	2/7/25/26	0/2/2/2
32	4OC	2a	1402	32	-	0/9/29/30	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	0/7/29/30	0/3/3/3
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
57	PSU	1y	55	57	-	2/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	3/7/12/14	-
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
56	FME	2z	1	56	-	4/7/9/11	-
32	G7M	1a	527	58,32	-	3/3/25/26	0/3/3/3
57	PSU	2y	39	57	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	58,1	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	58,1	-	0/7/25/26	0/2/2/2
32	4OC	1a	1402	32	-	0/9/29/30	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	58,55,1	-	0/5/27/28	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	3/7/29/30	0/3/3/3
55	4SU	2x	8	55	-	0/7/25/26	0/2/2/2
57	G7M	1y	46	57	-	2/3/25/26	0/3/3/3
57	5MU	2y	54	57	-	2/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	3/11/33/34	0/3/3/3
1	OMG	2A	2251	58,55,1	-	0/5/27/28	0/3/3/3
1	2MU	1A	2552	58,1	-	0/9/27/28	0/2/2/2
32	5MC	2a	1407	58,32	-	0/7/25/26	0/2/2/2
55	8AN	2x	76	58,56,55	-	3/3/25/26	0/3/3/3
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	58,32	-	0/5/27/28	0/3/3/3
32	PSU	1a	516	58,32	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
54	F3N	1w	76	54,1	-	0/15/37/38	0/4/4/4
1	2MU	2A	2552	58,1	-	0/9/27/28	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
32	G7M	2a	527	58,32	-	3/3/25/26	0/3/3/3
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
57	PSU	2y	32	57	-	0/7/25/26	0/2/2/2
57	4SU	1y	8	57	-	0/7/25/26	0/2/2/2
1	8AH	1A	2503	58,1	-	1/3/25/26	0/3/3/3
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	G7M	2w	46	54	-	1/3/25/26	0/3/3/3
43	0TD	1l	92	43	-	3/7/12/14	-
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
57	MIA	2y	37	57	-	1/3/25/34	0/3/3/3
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
1	5MU	2A	1939	58,1	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
57	MIA	1y	37	57	-	0/3/25/34	0/3/3/3
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2

All (223) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.33	1.69	1.82
43	1l	92	0TD	CB-SB	-12.22	1.70	1.82
54	2w	37	MIA	C2-S10	-7.11	1.69	1.75
54	1w	37	MIA	C13-C14	6.75	1.52	1.32
1	1A	1942	5MC	C5-C4	6.54	1.49	1.44
32	2a	1404	5MC	C5-C4	6.47	1.49	1.44
54	1w	37	MIA	C2-S10	-6.32	1.70	1.75
32	1a	967	5MC	C5-C4	6.29	1.48	1.44
32	2a	1400	5MC	C5-C4	6.29	1.48	1.44
1	1A	1962	5MC	C5-C4	6.14	1.48	1.44
55	1x	8	4SU	C4-N3	-6.06	1.31	1.37
55	1x	32	5MC	C5-C4	5.91	1.48	1.44
32	1a	1400	5MC	C5-C4	5.84	1.48	1.44
32	2a	967	5MC	C5-C4	5.83	1.48	1.44
1	2A	1942	5MC	C5-C4	5.80	1.48	1.44
32	1a	1404	5MC	C5-C4	5.79	1.48	1.44
32	1a	1407	5MC	C5-C4	5.77	1.48	1.44
32	2a	1407	5MC	C5-C4	5.73	1.48	1.44
55	2x	32	5MC	C5-C4	5.46	1.48	1.44
1	2A	1962	5MC	C5-C4	5.46	1.48	1.44
55	2x	8	4SU	C4-N3	-5.09	1.32	1.37
54	1w	8	4SU	C4-S4	-4.89	1.60	1.68
57	2y	8	4SU	C4-S4	-4.68	1.60	1.68
54	2w	76	F3N	CB-CG	-4.63	1.40	1.51
54	2w	8	4SU	C4-S4	-4.62	1.60	1.68
57	1y	8	4SU	C4-S4	-4.51	1.60	1.68
55	2x	8	4SU	C4-S4	-4.49	1.60	1.68
54	1w	76	F3N	CB-CG	-4.44	1.40	1.51
55	1x	8	4SU	C4-S4	-4.38	1.60	1.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	2y	46	G7M	C5-C4	4.21	1.47	1.39
54	2w	39	PSU	C6-C5	4.20	1.39	1.35
55	1x	8	4SU	C2-N3	-4.17	1.30	1.38
57	1y	55	PSU	C6-C5	4.14	1.39	1.35
32	1a	966	M2G	C2-N3	4.11	1.36	1.30
54	1w	76	F3N	O4'-C1'	4.10	1.46	1.40
57	1y	39	PSU	C6-C5	4.07	1.39	1.35
57	1y	46	G7M	C5-C4	4.03	1.47	1.39
57	1y	32	PSU	C6-C5	3.96	1.39	1.35
57	2y	39	PSU	C6-C5	3.92	1.39	1.35
57	2y	32	PSU	C6-C5	3.89	1.39	1.35
1	1A	2605	PSU	C6-C5	3.85	1.39	1.35
32	2a	966	M2G	C2-N3	3.84	1.36	1.30
32	1a	516	PSU	C6-C5	3.82	1.39	1.35
54	2w	55	PSU	C6-C5	3.82	1.39	1.35
54	2w	46	G7M	C5-C4	3.81	1.46	1.39
1	1A	1911	PSU	C6-C5	3.78	1.39	1.35
54	1w	46	G7M	C5-C4	3.77	1.46	1.39
32	2a	516	PSU	C6-C5	3.75	1.39	1.35
32	2a	527	G7M	C5-C4	3.70	1.46	1.39
55	2x	55	PSU	C6-C5	3.69	1.39	1.35
54	1w	32	PSU	C6-C5	3.65	1.39	1.35
1	2A	1911	PSU	C6-C5	3.62	1.39	1.35
32	1a	527	G7M	C5-C4	3.57	1.46	1.39
54	2w	32	PSU	C6-C5	3.55	1.39	1.35
55	1x	55	PSU	C6-C5	3.54	1.39	1.35
54	1w	55	PSU	C6-C5	3.46	1.39	1.35
55	2x	8	4SU	C2-N3	-3.45	1.32	1.38
1	2A	1917	PSU	C6-C5	3.37	1.39	1.35
54	2w	76	F3N	O4'-C1'	3.37	1.45	1.40
57	1y	8	4SU	C4-N3	-3.31	1.34	1.37
32	2a	1404	5MC	C6-C5	3.27	1.39	1.34
57	2y	55	PSU	C6-C5	3.25	1.38	1.35
54	1w	39	PSU	C6-C5	3.24	1.38	1.35
1	1A	1917	PSU	C6-C5	3.23	1.38	1.35
57	2y	8	4SU	C4-N3	-3.20	1.34	1.37
1	1A	1939	5MU	C4-N3	-3.16	1.32	1.38
1	1A	1939	5MU	C2-N3	-3.14	1.32	1.38
55	1x	8	4SU	C5-C4	-3.12	1.38	1.42
32	1a	967	5MC	C6-C5	3.07	1.39	1.34
55	2x	8	4SU	C5-C4	-3.07	1.38	1.42
57	1y	54	5MU	C6-C5	3.04	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	1x	54	5MU	C6-C5	3.02	1.39	1.34
54	1w	8	4SU	C4-N3	-3.01	1.34	1.37
57	1y	37	MIA	C2-N3	2.98	1.36	1.32
1	1A	2605	PSU	C4-N3	-2.97	1.33	1.38
32	1a	966	M2G	C2-N2	2.94	1.40	1.35
32	1a	1407	5MC	C6-C5	2.94	1.39	1.34
1	2A	2605	PSU	C6-C5	2.94	1.38	1.35
1	2A	1915	5MU	C6-C5	2.93	1.39	1.34
1	2A	1939	5MU	C6-C5	2.92	1.39	1.34
1	2A	1942	5MC	C6-C5	2.90	1.39	1.34
54	2w	8	4SU	C4-N3	-2.87	1.34	1.37
54	2w	39	PSU	C4-N3	-2.87	1.33	1.38
54	1w	39	PSU	C4-N3	-2.86	1.33	1.38
57	1y	54	5MU	C4-C5	2.82	1.49	1.44
55	1x	54	5MU	C4-N3	-2.81	1.33	1.38
57	2y	8	4SU	C5-C4	-2.81	1.39	1.42
32	2a	1407	5MC	C6-C5	2.80	1.39	1.34
57	2y	54	5MU	C6-C5	2.79	1.39	1.34
55	2x	54	5MU	C6-C5	2.79	1.39	1.34
32	1a	1404	5MC	C6-C5	2.78	1.39	1.34
54	1w	54	5MU	C6-C5	2.78	1.39	1.34
1	1A	1915	5MU	C6-C5	2.78	1.39	1.34
57	2y	37	MIA	C2-N3	2.77	1.36	1.32
57	1y	54	5MU	C2-N1	2.76	1.42	1.38
1	2A	1939	5MU	C4-N3	-2.76	1.33	1.38
32	1a	1400	5MC	C6-C5	2.74	1.39	1.34
1	1A	1939	5MU	C6-C5	2.74	1.39	1.34
55	2x	32	5MC	C6-C5	2.72	1.39	1.34
32	2a	966	M2G	C2-N2	2.70	1.40	1.35
1	2A	1917	PSU	C4-N3	-2.69	1.33	1.38
57	2y	54	5MU	C4-C5	2.68	1.49	1.44
55	1x	32	5MC	C6-C5	2.68	1.39	1.34
32	2a	1400	5MC	C6-C5	2.68	1.39	1.34
1	1A	2552	2MU	C4-N3	-2.67	1.34	1.38
1	1A	1939	5MU	C4-C5	2.67	1.49	1.44
54	1w	54	5MU	C4-C5	2.67	1.49	1.44
1	1A	1917	PSU	C4-N3	-2.64	1.33	1.38
1	1A	1915	5MU	C2-N1	2.63	1.42	1.38
1	1A	1942	5MC	C6-C5	2.62	1.38	1.34
54	1w	32	PSU	C4-N3	-2.61	1.34	1.38
54	1w	55	PSU	C4-N3	-2.61	1.34	1.38
55	2x	76	8AN	C6-C5	-2.61	1.33	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1962	5MC	C6-C5	2.61	1.38	1.34
54	1w	54	5MU	C4-N3	-2.60	1.34	1.38
55	1x	8	4SU	O2-C2	2.60	1.27	1.23
55	1x	54	5MU	C4-C5	2.59	1.49	1.44
1	2A	1962	5MC	C6-C5	2.58	1.38	1.34
32	1a	516	PSU	C4-N3	-2.57	1.34	1.38
1	1A	1939	5MU	C2-N1	2.56	1.42	1.38
1	2A	1911	PSU	C4-N3	-2.56	1.34	1.38
1	1A	1911	PSU	C4-N3	-2.56	1.34	1.38
54	2w	54	5MU	C4-N3	-2.55	1.34	1.38
54	2w	37	MIA	C6-C5	2.55	1.48	1.44
1	1A	1962	5MC	C6-N1	-2.55	1.33	1.38
57	2y	55	PSU	C4-N3	-2.54	1.34	1.38
1	2A	1915	5MU	C4-N3	-2.53	1.34	1.38
57	2y	54	5MU	C4-N3	-2.53	1.34	1.38
1	2A	1939	5MU	C2-N1	2.52	1.42	1.38
1	1A	1942	5MC	C6-N1	-2.51	1.33	1.38
1	1A	2251	OMG	C6-N1	-2.51	1.34	1.37
54	2w	76	F3N	C6-C5	-2.50	1.34	1.43
57	1y	39	PSU	C4-N3	-2.50	1.34	1.38
55	2x	54	5MU	C4-C5	2.50	1.48	1.44
57	2y	54	5MU	C2-N1	2.48	1.42	1.38
55	1x	76	8AN	C6-C5	-2.48	1.34	1.43
54	2w	55	PSU	C4-N3	-2.48	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.47	1.33	1.38
55	2x	55	PSU	C4-N3	-2.47	1.34	1.38
54	1w	37	MIA	C6-C5	2.46	1.48	1.44
32	2a	967	5MC	C6-C5	2.46	1.38	1.34
54	1w	8	4SU	C5-C4	-2.46	1.39	1.42
1	2A	2251	OMG	C6-N1	-2.45	1.34	1.37
55	1x	55	PSU	C4-N3	-2.45	1.34	1.38
1	2A	2552	2MU	C5-C4	2.44	1.49	1.43
57	1y	54	5MU	C4-N3	-2.44	1.34	1.38
55	2x	54	5MU	C4-N3	-2.44	1.34	1.38
1	2A	2552	2MU	C4-N3	-2.43	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.43	1.34	1.37
55	1x	32	5MC	C6-N1	-2.42	1.33	1.38
32	1a	1518	MA6	C6-C5	-2.42	1.41	1.44
54	1w	76	F3N	C6-C5	-2.42	1.34	1.43
1	2A	1915	5MU	C4-C5	2.42	1.48	1.44
55	2x	32	5MC	C6-N1	-2.41	1.33	1.38
1	2A	1915	5MU	C2-N1	2.40	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	1519	MA6	C6-C5	-2.39	1.41	1.44
1	2A	1962	5MC	C6-N1	-2.39	1.33	1.38
1	1A	1915	5MU	C4-N3	-2.38	1.34	1.38
57	1y	55	PSU	C4-N3	-2.36	1.34	1.38
57	2y	39	PSU	C4-N3	-2.36	1.34	1.38
32	2a	1518	MA6	C6-C5	-2.36	1.41	1.44
54	1w	46	G7M	C6-N1	-2.36	1.34	1.37
1	1A	1939	5MU	C6-N1	-2.36	1.34	1.38
32	2a	967	5MC	C6-N1	-2.35	1.34	1.38
1	2A	1939	5MU	C4-C5	2.34	1.48	1.44
54	2w	54	5MU	C6-C5	2.34	1.38	1.34
54	2w	32	PSU	C4-N3	-2.33	1.34	1.38
57	2y	46	G7M	C6-N1	-2.33	1.34	1.37
1	2A	2605	PSU	C4-N3	-2.33	1.34	1.38
57	1y	32	PSU	C4-N3	-2.33	1.34	1.38
32	2a	1207	2MG	C6-N1	-2.32	1.34	1.37
32	1a	966	M2G	C6-N1	-2.31	1.34	1.37
54	1w	54	5MU	C2-N1	2.30	1.42	1.38
57	2y	32	PSU	C4-N3	-2.30	1.34	1.38
54	2w	8	4SU	C5-C4	-2.29	1.39	1.42
32	2a	1498	UR3	C2-N1	2.29	1.41	1.38
57	1y	8	4SU	C5-C4	-2.29	1.39	1.42
1	2A	1939	5MU	C6-N1	-2.28	1.34	1.38
55	2x	54	5MU	C2-N1	2.28	1.42	1.38
32	2a	1519	MA6	C6-C5	-2.28	1.41	1.44
32	2a	516	PSU	C4-N3	-2.28	1.34	1.38
32	1a	1498	UR3	C2-N1	2.27	1.41	1.38
32	1a	1404	5MC	C6-N1	-2.27	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.26	1.34	1.38
1	2A	1939	5MU	C2-N3	-2.25	1.34	1.38
32	2a	527	G7M	C6-N1	-2.24	1.34	1.37
1	1A	1915	5MU	C4-C5	2.24	1.48	1.44
43	2l	92	0TD	CB-CA	2.23	1.55	1.54
55	1x	54	5MU	C2-N3	-2.23	1.34	1.38
57	2y	8	4SU	C2-N3	-2.20	1.34	1.38
1	2A	1942	5MC	C6-N1	-2.19	1.34	1.38
55	2x	8	4SU	O2-C2	2.18	1.26	1.23
32	2a	1400	5MC	C6-N1	-2.17	1.34	1.38
32	2a	1404	5MC	C6-N1	-2.15	1.34	1.38
32	2a	1518	MA6	C6-N1	2.13	1.35	1.32
57	1y	8	4SU	C2-N3	-2.13	1.34	1.38
1	2A	1915	5MU	C6-N1	-2.12	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	37	MIA	C2-N3	2.12	1.37	1.34
55	1x	8	4SU	C6-C5	2.12	1.40	1.35
55	2x	8	4SU	C6-C5	2.11	1.40	1.35
55	2x	76	8AN	C5-N7	-2.10	1.32	1.39
54	1w	76	F3N	C5-N7	-2.09	1.32	1.39
32	1a	1407	5MC	C6-N1	-2.09	1.34	1.38
54	1w	8	4SU	C2-N3	-2.09	1.34	1.38
54	2w	54	5MU	C6-N1	-2.08	1.34	1.38
32	1a	1498	UR3	C6-C5	2.07	1.39	1.35
1	2A	2552	2MU	C2-N3	-2.07	1.34	1.38
32	2a	1519	MA6	C6-N1	2.06	1.35	1.32
32	1a	1519	MA6	C6-N1	2.06	1.35	1.32
54	2w	76	F3N	C5-N7	-2.06	1.32	1.39
1	1A	2552	2MU	C2-N3	-2.06	1.34	1.38
55	2x	54	5MU	C6-N1	-2.05	1.34	1.38
55	2x	55	PSU	C4-C5	2.04	1.50	1.44
57	2y	55	PSU	C2-N3	-2.04	1.34	1.37
1	1A	2605	PSU	C2-N3	-2.04	1.34	1.37
57	2y	54	5MU	C2-N3	-2.03	1.34	1.38
32	1a	1518	MA6	C6-N1	2.03	1.35	1.32
32	1a	527	G7M	C6-N1	-2.03	1.34	1.37
54	1w	54	5MU	C2-N3	-2.03	1.34	1.38
54	2w	54	5MU	C4-C5	2.02	1.48	1.44
57	1y	8	4SU	C6-C5	2.01	1.39	1.35
1	2A	1915	5MU	C2-N3	-2.01	1.34	1.38
54	2w	76	F3N	C2'-C3'	-2.00	1.50	1.53

All (307) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	2l	92	0TD	CSB-SB-CB	-11.86	81.05	102.36
54	1w	37	MIA	C12-C13-C14	-9.58	109.82	127.01
55	2x	76	8AN	C4'-O4'-C1'	-8.39	102.24	109.92
55	1x	76	8AN	O4'-C1'-N9	8.10	119.49	108.75
54	2w	8	4SU	C4-N3-C2	-7.38	120.24	127.31
55	1x	76	8AN	C4'-O4'-C1'	-7.17	103.36	109.92
1	2A	2503	8AH	C2-N3-C4	6.91	121.04	115.46
55	1x	76	8AN	N3-C2-N1	-6.87	119.34	128.67
32	1a	1498	UR3	C4-N3-C2	-6.84	119.08	124.58
32	2a	1498	UR3	C4-N3-C2	-6.79	119.11	124.58
54	1w	76	F3N	N3-C2-N1	-6.77	119.48	128.67
1	2A	2605	PSU	N1-C2-N3	6.76	122.30	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2503	8AH	C2-N3-C4	6.75	120.91	115.46
54	2w	76	F3N	N3-C2-N1	-6.66	119.63	128.67
55	2x	76	8AN	N3-C2-N1	-6.64	119.66	128.67
1	1A	1911	PSU	N1-C2-N3	6.57	122.10	115.17
1	2A	1911	PSU	N1-C2-N3	6.56	122.08	115.17
32	1a	516	PSU	N1-C2-N3	6.48	122.00	115.17
57	1y	55	PSU	N1-C2-N3	6.45	121.97	115.17
54	1w	8	4SU	C4-N3-C2	-6.37	121.21	127.31
54	2w	32	PSU	N1-C2-N3	6.33	121.84	115.17
1	1A	1917	PSU	N1-C2-N3	6.33	121.84	115.17
57	2y	32	PSU	N1-C2-N3	6.30	121.82	115.17
54	1w	32	PSU	N1-C2-N3	6.29	121.80	115.17
32	2a	516	PSU	N1-C2-N3	6.27	121.79	115.17
55	1x	55	PSU	N1-C2-N3	6.21	121.72	115.17
54	1w	55	PSU	N1-C2-N3	6.20	121.71	115.17
55	2x	55	PSU	N1-C2-N3	6.18	121.68	115.17
54	2w	55	PSU	N1-C2-N3	6.04	121.54	115.17
57	2y	39	PSU	N1-C2-N3	5.93	121.42	115.17
1	2A	1917	PSU	N1-C2-N3	5.92	121.42	115.17
1	1A	2605	PSU	N1-C2-N3	5.87	121.36	115.17
57	1y	32	PSU	N1-C2-N3	5.83	121.32	115.17
57	2y	55	PSU	N1-C2-N3	5.78	121.27	115.17
54	1w	8	4SU	C5-C4-N3	5.78	120.13	114.75
54	1w	39	PSU	N1-C2-N3	5.77	121.25	115.17
57	1y	39	PSU	N1-C2-N3	5.75	121.23	115.17
54	2w	8	4SU	C5-C4-N3	5.72	120.07	114.75
1	2A	1915	5MU	C4-N3-C2	-5.63	119.96	127.34
32	2a	1519	MA6	N3-C2-N1	-5.58	121.10	128.67
1	2A	1939	5MU	C4-N3-C2	-5.57	120.04	127.34
32	1a	1519	MA6	N3-C2-N1	-5.49	121.22	128.67
32	2a	1518	MA6	N3-C2-N1	-5.45	121.27	128.67
57	1y	54	5MU	N3-C2-N1	5.35	121.85	114.89
55	2x	54	5MU	C4-N3-C2	-5.33	120.35	127.34
32	1a	1518	MA6	N3-C2-N1	-5.29	121.48	128.67
1	2A	1939	5MU	N3-C2-N1	5.29	121.77	114.89
1	2A	1915	5MU	N3-C2-N1	5.21	121.68	114.89
1	2A	1915	5MU	C5-C4-N3	5.20	119.84	115.32
55	2x	54	5MU	N3-C2-N1	5.20	121.66	114.89
57	1y	54	5MU	C4-N3-C2	-5.19	120.53	127.34
57	1y	8	4SU	C4-N3-C2	-5.18	122.35	127.31
54	1w	54	5MU	N3-C2-N1	5.15	121.60	114.89
1	1A	1915	5MU	N3-C2-N1	5.13	121.57	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1939	5MU	C4-N3-C2	-5.09	120.67	127.34
1	1A	1939	5MU	C5-C4-N3	5.06	119.72	115.32
32	2a	1518	MA6	C2-N1-C6	5.06	121.80	116.84
1	2A	2605	PSU	C4-N3-C2	-5.05	119.42	126.37
1	1A	1915	5MU	C4-N3-C2	-5.04	120.73	127.34
1	2A	1939	5MU	C5-C4-N3	5.03	119.69	115.32
57	2y	8	4SU	C5-C4-N3	5.00	119.40	114.75
32	1a	1519	MA6	C2-N1-C6	4.97	121.71	116.84
32	2a	1519	MA6	C2-N1-C6	4.93	121.67	116.84
1	2A	2552	2MU	N3-C2-N1	4.90	121.27	114.89
32	1a	1518	MA6	C2-N1-C6	4.88	121.62	116.84
55	1x	54	5MU	N3-C2-N1	4.85	121.21	114.89
1	1A	2552	2MU	N3-C2-N1	4.84	121.19	114.89
54	1w	54	5MU	C4-N3-C2	-4.83	121.01	127.34
1	1A	1939	5MU	N3-C2-N1	4.80	121.13	114.89
54	2w	39	PSU	N1-C2-N3	4.77	120.20	115.17
1	1A	1915	5MU	O4-C4-C5	-4.73	119.51	124.92
1	2A	1915	5MU	O4-C4-C5	-4.70	119.54	124.92
54	2w	8	4SU	N3-C2-N1	4.66	120.95	114.89
54	1w	55	PSU	C4-N3-C2	-4.64	119.98	126.37
57	1y	8	4SU	C5-C4-N3	4.63	119.06	114.75
1	1A	1939	5MU	C5-C6-N1	-4.54	118.38	123.31
57	2y	54	5MU	C4-N3-C2	-4.53	121.40	127.34
55	2x	76	8AN	O4'-C1'-N9	4.52	114.74	108.75
1	2A	2552	2MU	C4-N3-C2	-4.51	121.02	126.61
57	2y	54	5MU	N3-C2-N1	4.50	120.75	114.89
1	1A	2552	2MU	C4-N3-C2	-4.47	121.06	126.61
54	1w	32	PSU	C4-N3-C2	-4.47	120.21	126.37
32	1a	516	PSU	C4-N3-C2	-4.46	120.22	126.37
1	1A	1911	PSU	C4-N3-C2	-4.44	120.25	126.37
55	1x	54	5MU	C4-N3-C2	-4.44	121.52	127.34
55	2x	54	5MU	C5-C4-N3	4.38	119.13	115.32
1	2A	1939	5MU	O4-C4-C5	-4.34	119.95	124.92
54	2w	54	5MU	C4-N3-C2	-4.34	121.65	127.34
54	1w	37	MIA	C15-C14-C13	-4.32	109.68	122.66
32	2a	516	PSU	C4-N3-C2	-4.31	120.43	126.37
1	2A	1911	PSU	O2-C2-N1	-4.26	118.39	122.79
1	1A	1915	5MU	C5-C4-N3	4.25	119.02	115.32
54	2w	54	5MU	O4-C4-C5	-4.21	120.10	124.92
1	1A	1917	PSU	C4-N3-C2	-4.20	120.59	126.37
55	2x	54	5MU	O4-C4-C5	-4.19	120.12	124.92
57	1y	54	5MU	C5-C4-N3	4.19	118.97	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	55	PSU	C4-N3-C2	-4.16	120.64	126.37
54	2w	54	5MU	N3-C2-N1	4.15	120.29	114.89
32	2a	516	PSU	O2-C2-N1	-4.12	118.54	122.79
1	2A	1917	PSU	C4-N3-C2	-4.11	120.71	126.37
1	2A	1911	PSU	C4-N3-C2	-4.09	120.74	126.37
1	2A	2605	PSU	O2-C2-N1	-4.09	118.58	122.79
57	2y	54	5MU	C5-C4-N3	4.07	118.86	115.32
54	2w	54	5MU	C5-C4-N3	4.06	118.86	115.32
57	2y	55	PSU	C4-N3-C2	-4.05	120.79	126.37
55	1x	8	4SU	C6-C5-C4	-4.05	116.45	119.95
55	2x	55	PSU	C4-N3-C2	-3.99	120.88	126.37
55	1x	8	4SU	S4-C4-N3	-3.98	116.04	120.20
57	2y	8	4SU	C4-N3-C2	-3.97	123.51	127.31
57	2y	32	PSU	O2-C2-N1	-3.97	118.69	122.79
54	2w	32	PSU	C4-N3-C2	-3.96	120.91	126.37
57	1y	32	PSU	C4-N3-C2	-3.96	120.91	126.37
1	2A	1939	5MU	C5-C6-N1	-3.95	119.02	123.31
1	1A	2605	PSU	C4-N3-C2	-3.95	120.93	126.37
54	1w	54	5MU	C5-C4-N3	3.94	118.75	115.32
54	2w	55	PSU	C4-N3-C2	-3.91	120.98	126.37
57	1y	55	PSU	O2-C2-N1	-3.89	118.78	122.79
1	1A	1917	PSU	O2-C2-N1	-3.88	118.78	122.79
57	1y	55	PSU	C4-N3-C2	-3.87	121.04	126.37
57	2y	32	PSU	C4-N3-C2	-3.87	121.04	126.37
54	1w	8	4SU	C5-C4-S4	-3.85	119.91	124.31
57	1y	37	MIA	N3-C2-N1	-3.84	123.46	128.67
57	2y	39	PSU	C4-N3-C2	-3.82	121.11	126.37
55	1x	54	5MU	C5-C6-N1	-3.81	119.17	123.31
54	2w	8	4SU	C5-C4-S4	-3.77	120.00	124.31
1	1A	1942	5MC	C5-C6-N1	-3.76	119.23	123.31
54	1w	8	4SU	N3-C2-N1	3.76	119.79	114.89
32	1a	967	5MC	C5-C6-N1	-3.75	119.24	123.31
56	1z	1	FME	CA-N-CN	3.75	128.59	122.82
55	1x	8	4SU	O2-C2-N1	3.74	127.67	122.80
57	1y	8	4SU	N3-C2-N1	3.72	119.73	114.89
1	2A	1915	5MU	C5-C6-N1	-3.70	119.30	123.31
57	2y	37	MIA	N3-C2-N1	-3.69	123.66	128.67
55	2x	54	5MU	C5-C6-N1	-3.68	119.31	123.31
32	2a	1404	5MC	C5-C6-N1	-3.64	119.36	123.31
32	2a	1400	5MC	C5-C6-N1	-3.64	119.36	123.31
54	1w	37	MIA	C16-C14-C13	-3.63	111.77	122.66
55	1x	54	5MU	C5-C4-N3	3.60	118.45	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	1y	54	5MU	C5-C6-N1	-3.60	119.41	123.31
57	1y	39	PSU	C4-N3-C2	-3.59	121.43	126.37
55	1x	32	5MC	C5-C6-N1	-3.59	119.42	123.31
54	1w	54	5MU	O4-C4-C5	-3.58	120.83	124.92
54	2w	32	PSU	O2-C2-N1	-3.57	119.11	122.79
57	1y	54	5MU	O4-C4-C5	-3.51	120.90	124.92
55	2x	32	5MC	C5-C6-N1	-3.51	119.50	123.31
57	1y	32	PSU	O2-C2-N1	-3.48	119.20	122.79
32	1a	1404	5MC	C5-C6-N1	-3.45	119.57	123.31
32	2a	1407	5MC	C5-C6-N1	-3.44	119.57	123.31
57	2y	54	5MU	O4-C4-C5	-3.37	121.06	124.92
43	2l	92	0TD	OD2-CG-CB	3.36	120.41	113.15
55	1x	32	5MC	C5-C4-N3	-3.36	118.31	121.75
54	2w	55	PSU	O2-C2-N1	-3.36	119.33	122.79
57	2y	54	5MU	C5-C6-N1	-3.36	119.67	123.31
54	1w	55	PSU	O2-C2-N1	-3.36	119.33	122.79
1	2A	1917	PSU	O2-C2-N1	-3.35	119.33	122.79
54	1w	54	5MU	C5-C6-N1	-3.33	119.69	123.31
1	2A	1942	5MC	C5-C6-N1	-3.33	119.70	123.31
54	2w	37	MIA	C11-S10-C2	-3.32	99.76	102.25
54	1w	39	PSU	C4-N3-C2	-3.31	121.81	126.37
57	2y	55	PSU	O2-C2-N1	-3.31	119.38	122.79
57	2y	39	PSU	O2-C2-N1	-3.23	119.46	122.79
32	1a	1400	5MC	C5-C6-N1	-3.19	119.84	123.31
32	2a	1498	UR3	C5-C4-N3	3.19	119.23	115.04
43	1l	92	0TD	CSB-SB-CB	-3.18	96.65	102.36
1	2A	1962	5MC	C5-C4-N3	-3.17	118.50	121.75
32	1a	1207	2MG	C8-N7-C5	3.17	107.95	102.55
1	1A	2552	2MU	O4-C4-C5	-3.17	119.69	125.16
32	1a	1404	5MC	C5-C4-N3	-3.15	118.53	121.75
57	2y	8	4SU	C5-C4-S4	-3.15	120.71	124.31
1	1A	1962	5MC	C5-C6-N1	-3.14	119.91	123.31
32	1a	1407	5MC	C5-C6-N1	-3.14	119.91	123.31
32	1a	1498	UR3	C5-C4-N3	3.10	119.13	115.04
32	2a	1519	MA6	C4-C5-N7	-3.08	106.08	109.34
54	1w	37	MIA	C2-N1-C6	3.07	122.88	117.42
55	1x	55	PSU	O2-C2-N1	-3.06	119.63	122.79
43	1l	92	0TD	OD2-CG-CB	3.06	119.76	113.15
55	2x	8	4SU	C5-C4-N3	3.05	117.58	114.75
1	2A	2552	2MU	C5-C4-N3	3.04	119.06	114.80
55	1x	54	5MU	O4-C4-C5	-3.04	121.44	124.92
32	2a	1207	2MG	N1-C2-N2	3.03	119.65	116.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	2x	8	4SU	C6-C5-C4	-3.02	117.33	119.95
1	2A	2251	OMG	C8-N7-C5	3.01	107.67	102.55
32	2a	1404	5MC	C5-C4-N3	-3.00	118.68	121.75
1	2A	2552	2MU	O2-C2-N1	-2.98	118.91	122.80
1	1A	1911	PSU	O2-C2-N1	-2.97	119.72	122.79
1	1A	1942	5MC	C5-C4-N3	-2.97	118.72	121.75
32	2a	1407	5MC	C5-C4-N3	-2.96	118.72	121.75
55	1x	8	4SU	C4-N3-C2	2.95	130.14	127.31
54	1w	39	PSU	O2-C2-N1	-2.95	119.75	122.79
55	2x	55	PSU	O2-C2-N1	-2.93	119.77	122.79
54	2w	8	4SU	O2-C2-N1	-2.93	118.99	122.80
1	1A	2552	2MU	C5-C4-N3	2.92	118.89	114.80
32	1a	1519	MA6	C4-C5-N7	-2.91	106.26	109.34
55	2x	54	5MU	O2-C2-N1	-2.91	119.01	122.80
56	2z	1	FME	CA-N-CN	2.91	127.29	122.82
32	2a	967	5MC	C5-C6-N1	-2.89	120.17	123.31
32	2a	966	M2G	C8-N7-C5	2.89	107.47	102.55
32	1a	516	PSU	O2-C2-N1	-2.89	119.81	122.79
1	1A	2251	OMG	C8-N7-C5	2.87	107.44	102.55
54	2w	54	5MU	C5-C6-N1	-2.87	120.20	123.31
55	2x	32	5MC	C5-C4-N3	-2.84	118.85	121.75
32	1a	1407	5MC	C5-C4-N3	-2.82	118.86	121.75
1	2A	1962	5MC	C5-C6-N1	-2.82	120.25	123.31
32	2a	1207	2MG	C8-N7-C5	2.82	107.34	102.55
1	1A	1962	5MC	C5-C4-N3	-2.81	118.88	121.75
32	2a	1518	MA6	C4-C5-N7	-2.80	106.38	109.34
1	1A	1915	5MU	C5-C6-N1	-2.79	120.28	123.31
32	1a	966	M2G	C8-N7-C5	2.76	107.26	102.55
1	2A	1942	5MC	C5-C4-N3	-2.75	118.93	121.75
54	1w	32	PSU	O2-C2-N1	-2.75	119.96	122.79
55	1x	54	5MU	O2-C2-N1	-2.74	119.23	122.80
1	2A	1915	5MU	O2-C2-N1	-2.72	119.26	122.80
1	1A	2552	2MU	O2-C2-N1	-2.70	119.28	122.80
57	1y	8	4SU	C5-C4-S4	-2.67	121.25	124.31
32	1a	1400	5MC	C5-C4-N3	-2.67	119.02	121.75
54	1w	54	5MU	O2-C2-N1	-2.65	119.34	122.80
1	2A	2552	2MU	O4-C4-C5	-2.62	120.65	125.16
32	1a	1402	4OC	C6-C5-C4	2.60	120.13	117.00
32	2a	1400	5MC	O2-C2-N3	-2.59	118.25	122.33
54	1w	37	MIA	N3-C2-N1	-2.56	122.34	127.03
1	1A	1939	5MU	O4-C4-C5	-2.55	122.00	124.92
1	1A	2503	8AH	C2-N1-C6	2.55	122.02	118.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1w	37	MIA	C11-S10-C2	-2.55	100.34	102.25
55	2x	8	4SU	S4-C4-N3	-2.54	117.54	120.20
32	1a	1498	UR3	C3U-N3-C4	2.54	121.39	117.87
1	2A	2503	8AH	C2-N1-C6	2.49	121.93	118.10
55	2x	8	4SU	O2-C2-N1	2.49	126.04	122.80
54	1w	37	MIA	C4-C5-N7	-2.49	106.71	109.34
1	1A	1911	PSU	C5-C6-N1	-2.48	118.69	122.14
55	1x	8	4SU	C5-C4-N3	2.48	117.06	114.75
54	2w	37	MIA	C2-N1-C6	2.47	121.82	117.42
32	1a	516	PSU	C5-C6-N1	-2.47	118.71	122.14
54	2w	37	MIA	C12-N6-C6	-2.46	120.57	122.85
1	2A	1939	5MU	O2-C2-N1	-2.46	119.59	122.80
1	2A	2503	8AH	C4-C5-N7	-2.46	106.86	109.40
54	2w	39	PSU	C4-N3-C2	-2.46	122.99	126.37
32	1a	1407	5MC	O2-C2-N3	-2.45	118.46	122.33
57	2y	8	4SU	N3-C2-N1	2.45	118.08	114.89
32	2a	1207	2MG	N2-C2-N3	-2.45	117.39	120.51
32	1a	967	5MC	C5-C4-N3	-2.45	119.25	121.75
1	2A	2605	PSU	C5-C6-N1	-2.45	118.74	122.14
1	1A	2503	8AH	C4-C5-N7	-2.44	106.87	109.40
1	1A	1962	5MC	O2-C2-N3	-2.44	118.49	122.33
54	2w	54	5MU	O2-C2-N1	-2.43	119.63	122.80
32	1a	1518	MA6	C4-C5-N7	-2.43	106.77	109.34
57	2y	37	MIA	C4-C5-N7	-2.43	106.77	109.34
54	1w	55	PSU	C5-C6-N1	-2.42	118.78	122.14
32	1a	1498	UR3	C6-N1-C2	-2.41	119.83	121.80
32	2a	967	5MC	C5-C4-N3	-2.40	119.30	121.75
1	1A	1939	5MU	O2-C2-N3	-2.38	117.10	121.49
43	2l	92	0TD	OD1-CG-CB	-2.37	117.49	122.44
57	1y	54	5MU	O2-C2-N1	-2.36	119.72	122.80
57	1y	37	MIA	C4-C5-N7	-2.35	106.85	109.34
1	2A	2251	OMG	C5-C6-N1	2.33	118.51	114.07
32	2a	1407	5MC	O2-C2-N3	-2.32	118.67	122.33
1	2A	1920	OMC	O2-C2-N3	-2.32	118.67	122.33
1	2A	1917	PSU	C5-C6-N1	-2.32	118.93	122.14
55	2x	32	5MC	O2-C2-N3	-2.31	118.69	122.33
1	1A	1915	5MU	O2-C2-N1	-2.28	119.82	122.80
54	1w	32	PSU	C5-C6-N1	-2.28	118.97	122.14
32	2a	1402	4OC	C6-C5-C4	2.27	119.74	117.00
55	1x	8	4SU	C5-C4-S4	2.27	126.90	124.31
32	2a	1400	5MC	C5-C4-N3	-2.27	119.43	121.75
1	1A	2605	PSU	O2-C2-N1	-2.27	120.45	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	2y	54	5MU	C5M-C5-C4	2.26	121.20	118.78
57	2y	55	PSU	C5-C6-N1	-2.25	119.02	122.14
57	1y	39	PSU	O2-C2-N1	-2.23	120.48	122.79
54	2w	37	MIA	C4-C5-N7	-2.22	106.99	109.34
55	1x	55	PSU	C5-C6-N1	-2.21	119.07	122.14
1	2A	2552	2MU	C2'-C1'-N1	-2.20	110.06	114.24
54	2w	39	PSU	C6-C5-C4	-2.20	116.69	118.17
32	2a	967	5MC	C1'-N1-C6	-2.18	117.57	121.15
32	2a	1498	UR3	C6-N1-C2	-2.17	120.02	121.80
1	2A	1962	5MC	N4-C4-N3	2.17	122.43	118.51
54	2w	54	5MU	C5M-C5-C4	2.13	121.06	118.78
57	2y	55	PSU	O4'-C1'-C2'	2.13	108.09	105.15
1	1A	1911	PSU	O4'-C1'-C2'	2.12	108.08	105.15
32	1a	1207	2MG	N1-C2-N2	2.12	118.72	116.56
32	2a	967	5MC	CM5-C5-C6	-2.11	119.99	122.85
43	1l	92	0TD	OD1-CG-CB	-2.11	118.03	122.44
1	1A	1942	5MC	CM5-C5-C6	-2.10	120.01	122.85
1	1A	2552	2MU	C2'-C1'-N1	-2.09	110.27	114.24
54	2w	39	PSU	O2-C2-N3	-2.09	118.15	121.86
54	1w	76	F3N	C4'-O4'-C1'	-2.08	108.02	109.92
1	1A	1911	PSU	O2-C2-N3	-2.08	118.17	121.86
54	2w	76	F3N	C4'-O4'-C1'	-2.07	108.03	109.92
32	1a	516	PSU	O4'-C1'-C2'	2.07	108.02	105.15
54	2w	37	MIA	C1'-N9-C4	2.07	130.28	126.64
32	1a	516	PSU	O2-C2-N3	-2.07	118.19	121.86
1	1A	2605	PSU	O2-C2-N3	-2.07	118.19	121.86
1	1A	2605	PSU	C6-C5-C4	-2.07	116.78	118.17
32	2a	516	PSU	O4'-C1'-C2'	2.06	108.01	105.15
55	2x	55	PSU	C5-C6-N1	-2.06	119.28	122.14
32	1a	966	M2G	O6-C6-C5	-2.06	120.23	124.32
1	1A	1939	5MU	C5M-C5-C4	2.05	120.97	118.78
56	2z	1	FME	CB-CA-N	2.04	114.24	110.52
54	1w	32	PSU	O2-C2-N3	-2.04	118.24	121.86
32	1a	1207	2MG	C5-C6-N1	2.04	117.95	114.07
54	2w	32	PSU	C5-C6-N1	-2.03	119.32	122.14
1	2A	2503	8AH	O4'-C1'-N9	-2.03	106.06	108.75
1	1A	1915	5MU	C1'-N1-C2	2.02	121.23	117.59
55	2x	8	4SU	C1'-N1-C2	2.02	121.23	117.59
57	1y	39	PSU	O2-C2-N3	-2.01	118.29	121.86
32	2a	1400	5MC	C1'-N1-C6	-2.01	117.84	121.15
55	2x	76	8AN	O2'-C2'-C3'	2.01	116.91	111.61
55	1x	32	5MC	O2-C2-N3	-2.01	119.17	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1911	PSU	C5-C6-N1	-2.00	119.36	122.14

There are no chirality outliers.

All (58) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1207	2MG	N1-C2-N2-CM2
32	1a	1207	2MG	N3-C2-N2-CM2
43	1l	92	0TD	SB-CB-CG-OD2
43	1l	92	0TD	SB-CB-CG-OD1
54	1w	37	MIA	C12-C13-C14-C15
54	1w	37	MIA	C12-C13-C14-C16
55	1x	76	8AN	O4'-C4'-C5'-O5'
55	1x	76	8AN	C3'-C4'-C5'-O5'
57	1y	46	G7M	C4'-C5'-O5'-P
57	1y	54	5MU	O4'-C4'-C5'-O5'
43	2l	92	0TD	O-C-CA-CB
43	2l	92	0TD	CG-CB-SB-CSB
54	2w	37	MIA	C5-C6-N6-C12
54	2w	37	MIA	N1-C6-N6-C12
55	2x	76	8AN	C3'-C4'-C5'-O5'
57	2y	54	5MU	O4'-C4'-C5'-O5'
56	1z	1	FME	N-CA-CB-CG
56	1z	1	FME	C-CA-CB-CG
56	2z	1	FME	O-C-CA-CB
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
55	2x	76	8AN	O4'-C4'-C5'-O5'
54	1w	46	G7M	C4'-C5'-O5'-P
32	2a	527	G7M	C3'-C4'-C5'-O5'
57	1y	54	5MU	C3'-C4'-C5'-O5'
57	2y	54	5MU	C3'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
32	1a	527	G7M	C3'-C4'-C5'-O5'
56	2z	1	FME	CB-CG-SD-CE
32	2a	527	G7M	O4'-C4'-C5'-O5'
56	2z	1	FME	N-CA-CB-CG
55	1x	76	8AN	C4'-C5'-O5'-P
54	2w	46	G7M	C4'-C5'-O5'-P
56	2z	1	FME	CA-CB-CG-SD
57	1y	32	PSU	O4'-C1'-C5-C4

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Mol	Chain	Res	Type	Atoms
57	1y	55	PSU	O4'-C1'-C5-C4
57	1y	46	G7M	C3'-C4'-C5'-O5'
56	1z	1	FME	CA-CB-CG-SD
54	1w	37	MIA	N6-C12-C13-C14
32	2a	527	G7M	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
57	2y	46	G7M	O4'-C4'-C5'-O5'
55	2x	76	8AN	C4'-C5'-O5'-P
32	1a	1400	5MC	O4'-C4'-C5'-O5'
43	2l	92	0TD	CA-CB-SB-CSB
32	1a	527	G7M	C4'-C5'-O5'-P
57	1y	32	PSU	O4'-C1'-C5-C6
57	1y	55	PSU	O4'-C1'-C5-C6
57	2y	55	PSU	O4'-C1'-C5-C6
32	1a	1519	MA6	C4'-C5'-O5'-P
57	2y	37	MIA	C3'-C4'-C5'-O5'
1	1A	2503	8AH	C4'-C5'-O5'-P
43	1l	92	0TD	CG-CB-SB-CSB
57	2y	55	PSU	C2'-C1'-C5-C6
32	1a	527	G7M	O4'-C4'-C5'-O5'
1	1A	1920	OMC	C2'-C1'-N1-C2
32	1a	967	5MC	O4'-C4'-C5'-O5'

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2765 ligands modelled in this entry, 2763 are monoatomic - leaving 2 for Mogul analysis.

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

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

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
61	SF4	1d	302	35	-	-	0/6/5/5
61	SF4	2d	303	35	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1A	2860/2915 (98%)	-0.42	180 (6%) 27 28	24, 43, 98, 108	0
1	2A	2789/2915 (95%)	0.06	148 (5%) 33 33	39, 61, 97, 107	0
2	1B	120/121 (99%)	-0.25	0 100 100	39, 58, 72, 91	0
2	2B	120/121 (99%)	0.44	1 (0%) 82 83	68, 77, 86, 93	0
3	1D	275/276 (99%)	-0.16	4 (1%) 71 73	26, 44, 57, 86	0
3	2D	275/276 (99%)	0.16	5 (1%) 67 69	36, 54, 65, 84	0
4	1E	204/206 (99%)	-0.23	1 (0%) 87 88	26, 45, 64, 75	0
4	2E	204/206 (99%)	0.70	5 (2%) 58 61	42, 64, 76, 81	0
5	1F	202/210 (96%)	0.01	4 (1%) 64 67	24, 48, 70, 87	0
5	2F	202/210 (96%)	0.39	5 (2%) 58 61	41, 67, 80, 85	0
6	1G	181/182 (99%)	0.51	9 (4%) 35 35	48, 64, 75, 89	0
6	2G	181/182 (99%)	1.03	16 (8%) 17 17	66, 78, 85, 91	0
7	1H	174/180 (96%)	0.33	5 (2%) 54 56	44, 58, 71, 78	0
7	2H	174/180 (96%)	1.50	44 (25%) 2 2	72, 85, 93, 97	0
8	1I	146/148 (98%)	1.01	13 (8%) 17 17	51, 75, 82, 85	0
8	2I	146/148 (98%)	1.05	17 (11%) 11 10	55, 75, 83, 87	0
9	1N	140/140 (100%)	-0.13	1 (0%) 84 85	32, 43, 63, 75	0
9	2N	140/140 (100%)	0.77	6 (4%) 40 41	52, 69, 81, 88	0
10	1O	122/122 (100%)	-0.19	0 100 100	32, 46, 62, 66	0
10	2O	122/122 (100%)	0.67	3 (2%) 58 61	52, 64, 74, 80	0
11	1P	149/150 (99%)	0.01	2 (1%) 74 76	25, 54, 71, 77	0
11	2P	149/150 (99%)	0.63	6 (4%) 43 44	45, 69, 83, 89	0
12	1Q	141/141 (100%)	0.03	2 (1%) 73 75	31, 47, 62, 74	0
12	2Q	141/141 (100%)	0.96	11 (7%) 20 20	54, 70, 80, 85	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	32, 41, 53, 62	0
13	2R	118/118 (100%)	0.24	0 100 100	47, 58, 68, 75	0
14	1S	110/112 (98%)	0.31	2 (1%) 67 69	45, 58, 69, 73	0
14	2S	110/112 (98%)	0.93	6 (5%) 32 32	62, 74, 80, 83	0
15	1T	131/146 (89%)	0.15	4 (3%) 51 54	40, 50, 74, 83	0
15	2T	131/146 (89%)	0.80	9 (6%) 24 25	56, 66, 78, 83	0
16	1U	116/118 (98%)	-0.48	1 (0%) 81 81	27, 35, 50, 69	0
16	2U	116/118 (98%)	0.60	3 (2%) 57 60	47, 67, 76, 81	0
17	1V	101/101 (100%)	-0.34	0 100 100	28, 44, 59, 70	0
17	2V	101/101 (100%)	0.57	4 (3%) 43 44	46, 74, 80, 85	0
18	1W	112/113 (99%)	-0.34	0 100 100	28, 36, 54, 82	0
18	2W	112/113 (99%)	0.25	2 (1%) 67 69	46, 54, 69, 95	0
19	1X	95/96 (98%)	-0.02	3 (3%) 50 53	33, 44, 68, 80	0
19	2X	95/96 (98%)	0.66	4 (4%) 41 42	50, 63, 75, 84	0
20	1Y	107/110 (97%)	0.27	3 (2%) 55 57	38, 56, 73, 82	0
20	2Y	107/110 (97%)	1.26	13 (12%) 10 10	62, 73, 83, 88	0
21	1Z	154/206 (74%)	0.79	16 (10%) 13 13	43, 69, 87, 91	0
21	2Z	160/206 (77%)	1.60	47 (29%) 1 1	71, 83, 90, 92	0
22	10	83/85 (97%)	-0.03	0 100 100	33, 44, 58, 67	0
22	20	83/85 (97%)	0.74	3 (3%) 46 48	47, 66, 75, 82	0
23	11	97/98 (98%)	0.31	2 (2%) 63 65	35, 52, 76, 82	0
23	21	97/98 (98%)	0.49	3 (3%) 51 54	43, 59, 76, 83	0
24	12	70/72 (97%)	0.14	0 100 100	39, 54, 64, 76	0
24	22	70/72 (97%)	0.66	3 (4%) 40 41	60, 71, 77, 85	0
25	13	59/60 (98%)	-0.11	2 (3%) 48 50	32, 41, 67, 82	0
25	23	59/60 (98%)	0.48	3 (5%) 34 35	60, 68, 77, 85	0
26	14	69/71 (97%)	1.10	14 (20%) 3 3	61, 80, 89, 91	0
26	24	69/71 (97%)	1.41	18 (26%) 2 2	76, 86, 91, 93	0
27	15	59/60 (98%)	-0.37	0 100 100	26, 38, 57, 61	0
27	25	59/60 (98%)	0.24	2 (3%) 48 50	42, 56, 72, 80	0
28	16	53/54 (98%)	0.09	0 100 100	41, 50, 65, 66	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.38	0 100 100	49, 62, 71, 75	0
29	17	48/49 (97%)	0.04	4 (8%) 19 18	27, 34, 60, 70	0
29	27	48/49 (97%)	0.53	6 (12%) 9 9	40, 46, 70, 75	0
30	18	64/65 (98%)	-0.32	0 100 100	35, 41, 47, 62	0
30	28	64/65 (98%)	0.39	0 100 100	50, 58, 65, 66	0
31	19	37/37 (100%)	-0.09	0 100 100	36, 44, 59, 62	0
31	29	37/37 (100%)	1.26	4 (10%) 12 12	67, 74, 81, 83	0
32	1a	1488/1521 (97%)	0.33	62 (4%) 41 42	40, 71, 94, 108	0
32	2a	1491/1521 (98%)	0.52	81 (5%) 32 32	49, 76, 95, 108	0
33	1b	231/256 (90%)	1.15	38 (16%) 5 5	66, 80, 90, 94	0
33	2b	231/256 (90%)	1.69	83 (35%) 1 1	72, 86, 91, 94	0
34	1c	206/239 (86%)	0.94	12 (5%) 30 30	65, 76, 86, 89	0
34	2c	206/239 (86%)	1.49	48 (23%) 2 2	74, 83, 88, 94	0
35	1d	208/209 (99%)	0.84	13 (6%) 27 28	61, 72, 81, 88	0
35	2d	208/209 (99%)	0.88	12 (5%) 30 30	60, 70, 79, 87	0
36	1e	148/162 (91%)	0.70	8 (5%) 32 32	51, 67, 77, 82	0
36	2e	148/162 (91%)	0.97	8 (5%) 32 32	60, 74, 82, 91	0
37	1f	100/101 (99%)	0.74	3 (3%) 52 55	60, 71, 78, 81	0
37	2f	100/101 (99%)	0.63	1 (1%) 79 80	58, 69, 77, 87	0
38	1g	155/156 (99%)	0.94	18 (11%) 11 10	67, 75, 86, 90	0
38	2g	155/156 (99%)	1.05	18 (11%) 11 10	71, 80, 88, 94	0
39	1h	137/138 (99%)	0.71	5 (3%) 46 48	58, 69, 76, 82	0
39	2h	137/138 (99%)	0.79	6 (4%) 39 40	67, 76, 80, 84	0
40	1i	127/128 (99%)	1.57	31 (24%) 2 2	58, 80, 85, 89	0
40	2i	127/128 (99%)	1.90	52 (40%) 1 0	71, 85, 90, 93	0
41	1j	97/105 (92%)	1.42	19 (19%) 4 3	62, 80, 89, 91	0
41	2j	96/105 (91%)	2.40	60 (62%) 0 0	74, 88, 93, 96	0
42	1k	114/129 (88%)	0.46	6 (5%) 33 33	48, 69, 79, 81	0
42	2k	114/129 (88%)	0.96	12 (10%) 13 13	58, 74, 84, 88	0
43	1l	121/132 (91%)	0.34	3 (2%) 58 61	51, 57, 69, 76	0
43	2l	121/132 (91%)	0.90	8 (6%) 26 26	60, 68, 76, 80	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	1.08	12 (9%) 14 15	59, 74, 82, 90	0
44	2m	122/126 (96%)	1.47	24 (19%) 3 3	73, 82, 87, 91	0
45	1n	60/61 (98%)	1.40	7 (11%) 10 10	67, 74, 82, 86	0
45	2n	60/61 (98%)	2.27	33 (55%) 0 0	77, 84, 89, 90	0
46	1o	88/89 (98%)	0.62	4 (4%) 39 39	50, 69, 76, 80	0
46	2o	88/89 (98%)	0.82	4 (4%) 39 39	59, 72, 82, 85	0
47	1p	82/88 (93%)	1.03	8 (9%) 14 15	64, 73, 80, 88	0
47	2p	82/88 (93%)	0.92	4 (4%) 36 36	63, 71, 78, 81	0
48	1q	99/105 (94%)	0.80	5 (5%) 34 35	57, 69, 77, 79	0
48	2q	99/105 (94%)	0.75	8 (8%) 19 19	62, 74, 82, 84	0
49	1r	68/88 (77%)	0.58	1 (1%) 71 73	58, 68, 78, 82	0
49	2r	68/88 (77%)	0.75	5 (7%) 22 23	63, 71, 80, 84	0
50	1s	83/93 (89%)	1.07	11 (13%) 8 8	67, 77, 85, 89	0
50	2s	83/93 (89%)	1.84	28 (33%) 1 1	78, 86, 91, 96	0
51	1t	96/106 (90%)	1.19	16 (16%) 5 5	63, 74, 82, 84	0
51	2t	96/106 (90%)	1.15	15 (15%) 6 6	63, 73, 84, 86	0
52	1u	23/27 (85%)	1.37	4 (17%) 5 4	67, 71, 76, 79	0
52	2u	23/27 (85%)	1.84	10 (43%) 1 0	70, 79, 83, 88	0
53	1v	13/24 (54%)	0.89	2 (15%) 6 6	52, 59, 93, 103	0
53	2v	13/24 (54%)	1.48	4 (30%) 1 1	65, 73, 97, 102	0
54	1w	66/76 (86%)	1.37	16 (24%) 2 2	34, 88, 99, 103	0
54	2w	64/76 (84%)	1.33	13 (20%) 3 3	50, 95, 100, 103	0
55	1x	72/77 (93%)	0.26	4 (5%) 31 31	31, 65, 83, 90	0
55	2x	72/77 (93%)	0.44	1 (1%) 73 75	48, 77, 88, 98	0
56	1z	6/7 (85%)	1.30	2 (33%) 1 1	33, 41, 67, 73	0
56	2z	6/7 (85%)	1.75	2 (33%) 1 1	52, 58, 77, 78	0
57	1y	67/76 (88%)	2.04	29 (43%) 1 0	62, 99, 103, 104	0
57	2y	66/76 (86%)	2.18	35 (53%) 0 0	70, 102, 104, 106	0
All	All	20883/21762 (95%)	0.42	1583 (7%) 21 21	24, 67, 90, 108	0

All (1583) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	123	ALA	9.8
1	2A	652(U)	G	9.8
1	1A	653	A	8.6
1	1A	652(V)	C	8.6
1	2A	653	A	8.4
1	2A	652(V)	C	8.4
1	1A	654	A	7.8
44	2m	124	PRO	7.8
1	1A	652(U)	G	7.7
44	1m	123	ALA	7.4
45	2n	2	ALA	7.3
21	1Z	141	VAL	7.1
45	1n	2	ALA	7.1
1	2A	652(C)	G	6.8
21	1Z	146	ILE	6.7
1	2A	652(T)	C	6.5
1	1A	652(C)	G	6.4
1	1A	2115	G	6.4
1	2A	883	G	6.3
33	2b	237	ALA	6.2
1	2A	654	A	6.0
50	2s	2	PRO	5.9
23	21	2	SER	5.9
1	1A	652(S)	C	5.7
56	1z	2	THR	5.7
32	2a	1032	G	5.6
1	1A	652(T)	C	5.6
51	2t	103	GLY	5.6
1	2A	2147	G	5.5
32	2a	1001(A)	G	5.5
1	1A	2114	A	5.5
32	1a	1035	A	5.5
15	1T	131	ALA	5.4
1	2A	884	C	5.4
44	1m	124	PRO	5.3
7	1H	2	SER	5.3
23	11	2	SER	5.3
1	2A	2111	C	5.3
1	2A	2802	G	5.3
1	2A	2803	C	5.2
56	2z	2	THR	5.2
3	1D	276	LYS	5.2
1	2A	652(B)	A	5.2

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Mol	Chain	Res	Type	RSRZ
29	17	48	LYS	5.2
45	1n	25	VAL	5.2
38	2g	83	ALA	5.1
38	2g	82	GLY	5.1
44	2m	102	ARG	5.1
1	2A	885	C	5.0
29	27	48	LYS	5.0
33	2b	236	TYR	5.0
41	2j	32	ALA	5.0
1	2A	2146	C	4.9
34	2c	2	GLY	4.9
43	2l	18	VAL	4.9
1	2A	2112	G	4.9
3	2D	276	LYS	4.9
44	1m	2	ALA	4.9
1	1A	2117	A	4.9
54	2w	71	G	4.8
1	1A	1096	A	4.8
1	1A	2119	A	4.8
1	1A	652(D)	C	4.8
41	2j	65	LEU	4.8
32	2a	1002	G	4.7
11	2P	15	ARG	4.7
20	2Y	1	MET	4.7
18	2W	112	GLY	4.7
32	1a	1027	C	4.7
32	2a	1033	G	4.7
32	2a	1030(B)	C	4.7
44	1m	122	LYS	4.7
1	1A	2166	G	4.7
40	1i	56	LEU	4.6
51	2t	98	PRO	4.6
1	1A	2135	A	4.6
1	2A	882	G	4.6
45	2n	38	GLY	4.6
54	1w	73	A	4.6
1	1A	2159	G	4.6
1	2A	2115	G	4.6
32	1a	1034	G	4.6
5	2F	207	GLY	4.5
33	1b	237	ALA	4.5
1	1A	1095	A	4.5

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Mol	Chain	Res	Type	RSRZ
44	2m	121	LYS	4.5
1	2A	2893	G	4.5
40	1i	2	GLU	4.5
54	1w	72	C	4.5
1	1A	2116	G	4.5
1	2A	652(D)	C	4.5
1	1A	1094	U	4.4
57	2y	19	G	4.4
1	1A	1057	A	4.4
41	2j	91	PRO	4.4
32	1a	1036	G	4.4
38	2g	16	LEU	4.4
40	2i	102	LEU	4.4
45	2n	34	TYR	4.4
1	1A	1078	U	4.3
32	2a	1001	A	4.3
50	1s	13	ASP	4.3
1	1A	652(E)	G	4.3
34	2c	4	LYS	4.3
1	2A	2145	C	4.3
34	2c	207	VAL	4.3
1	1A	2112	G	4.2
21	2Z	164	ALA	4.2
51	2t	99	LEU	4.2
1	2A	2805	G	4.2
32	1a	1003	G	4.2
21	2Z	144	LEU	4.2
26	24	63	TYR	4.2
26	24	56	VAL	4.2
33	2b	136	VAL	4.2
57	1y	35	A	4.2
54	1w	1	G	4.2
26	14	51	ASP	4.2
34	2c	62	ASP	4.2
1	1A	897	C	4.2
44	2m	122	LYS	4.2
32	1a	1531	A	4.2
1	1A	2110	G	4.1
40	2i	14	VAL	4.1
53	2v	13	A	4.1
26	14	55	ARG	4.1
34	1c	39	ILE	4.1

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Mol	Chain	Res	Type	RSRZ
41	2j	75	ILE	4.1
27	25	29	THR	4.1
38	2g	80	VAL	4.1
32	2a	1030(A)	G	4.1
38	2g	154	TYR	4.1
1	1A	888	C	4.1
1	1A	2111	C	4.1
1	1A	1068	G	4.1
38	2g	84	ASN	4.1
51	1t	103	GLY	4.1
54	1w	70	G	4.1
57	2y	15	G	4.1
19	1X	95	LEU	4.1
41	2j	74	ILE	4.1
1	1A	896	A	4.1
32	2a	1030	C	4.1
32	2a	1038	C	4.1
8	2I	146	ALA	4.1
38	2g	85	TYR	4.0
38	1g	80	VAL	4.0
1	2A	2113	U	4.0
1	1A	1176	G	4.0
1	2A	2125	G	4.0
21	2Z	105	VAL	4.0
26	14	56	VAL	4.0
1	1A	655	A	4.0
32	2a	1039	C	4.0
20	2Y	54	LYS	4.0
1	1A	1063	G	4.0
57	1y	15	G	4.0
21	2Z	172	ALA	4.0
1	1A	652(A)	A	4.0
1	1A	885	C	4.0
1	1A	1509	C	4.0
32	2a	1030(D)	A	4.0
7	2H	45	VAL	4.0
33	2b	7	VAL	4.0
34	2c	190	ARG	3.9
52	1u	24	ARG	3.9
1	1A	1058	G	3.9
38	1g	81	GLY	3.9
1	1A	884	C	3.9

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Mol	Chain	Res	Type	RSRZ
53	1v	12	A	3.9
1	2A	2159	G	3.9
32	2a	1031	G	3.9
1	1A	2136	C	3.9
1	1A	2164	C	3.9
57	2y	36	A	3.9
26	14	58	ARG	3.9
1	1A	1081	U	3.9
1	1A	2113	U	3.9
32	1a	1025	U	3.9
1	2A	2793	G	3.9
32	2a	1286	A	3.9
1	2A	2896	C	3.8
40	1i	67	GLY	3.8
21	1Z	1	MET	3.8
40	1i	19	LEU	3.8
1	1A	652(F)	G	3.8
1	1A	1069	A	3.8
33	2b	77	ALA	3.8
1	2A	2804	C	3.8
54	2w	72	C	3.8
41	2j	59	SER	3.8
5	1F	207	GLY	3.8
6	1G	50	ALA	3.8
1	1A	2145	C	3.8
1	2A	2137	C	3.8
1	2A	2148	G	3.8
1	2A	2154	G	3.8
32	1a	630	G	3.8
41	2j	96	ILE	3.8
7	2H	2	SER	3.8
33	1b	236	TYR	3.8
33	2b	121	LEU	3.8
7	2H	43	VAL	3.8
40	2i	91	ASP	3.8
57	2y	14	A	3.8
50	1s	9	VAL	3.7
29	27	45	ALA	3.7
32	1a	1023	G	3.7
43	2l	64	TYR	3.7
45	2n	13	THR	3.7
44	2m	104	ARG	3.7

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Mol	Chain	Res	Type	RSRZ
1	2A	896	A	3.7
32	1a	1001	A	3.7
57	2y	7	A	3.7
35	1d	194	LEU	3.7
45	2n	39	LEU	3.7
50	2s	15	LEU	3.7
1	2A	2139	C	3.7
7	2H	15	VAL	3.7
7	2H	17	VAL	3.7
29	27	46	VAL	3.7
41	2j	100	THR	3.7
1	1A	2160	G	3.7
45	2n	11	LYS	3.7
53	2v	12	A	3.7
38	2g	156	TRP	3.7
12	2Q	121	ALA	3.7
51	2t	97	ALA	3.7
1	1A	2141	G	3.7
41	2j	78	ASN	3.6
22	20	84	LEU	3.6
33	1b	232	PRO	3.6
33	2b	17	PHE	3.6
1	1A	2109	U	3.6
6	1G	48	GLU	3.6
32	1a	1447	A	3.6
54	1w	71	G	3.6
33	1b	19	HIS	3.6
38	1g	84	ASN	3.6
3	2D	38	LYS	3.6
40	2i	21	PRO	3.6
36	2e	114	GLY	3.6
29	17	47	ARG	3.6
40	1i	64	THR	3.6
45	2n	12	ARG	3.6
1	2A	2128	C	3.6
40	2i	99	LEU	3.6
1	1A	1059	G	3.6
1	2A	2165	G	3.6
21	1Z	170	THR	3.6
42	2k	14	VAL	3.6
1	1A	1082	U	3.6
1	1A	1098	A	3.6

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Mol	Chain	Res	Type	RSRZ
1	2A	2126	A	3.6
41	2j	14	LYS	3.6
21	2Z	136	PHE	3.6
38	2g	5	ARG	3.6
21	2Z	146	ILE	3.6
40	2i	36	TYR	3.6
1	1A	2170	A	3.5
1	2A	887	A	3.5
21	2Z	157	LEU	3.5
1	1A	898	C	3.5
1	2A	2138	C	3.5
52	2u	24	ARG	3.5
40	1i	8	GLY	3.5
50	2s	9	VAL	3.5
50	2s	71	LEU	3.5
12	2Q	10	ARG	3.5
32	1a	1286	A	3.5
25	23	60	GLU	3.5
1	1A	2138	C	3.5
1	1A	1060	U	3.5
1	2A	2156	G	3.5
32	2a	1034	G	3.5
21	1Z	136	PHE	3.5
1	1A	2169	A	3.5
53	1v	13	A	3.5
1	1A	2140	C	3.5
1	2A	2136	C	3.5
7	2H	136	ILE	3.5
15	1T	130	ALA	3.5
15	2T	130	ALA	3.5
1	1A	1065	U	3.5
1	1A	1066	U	3.5
33	2b	234	PRO	3.5
1	1A	2793	G	3.5
41	2j	31	GLY	3.5
41	2j	34	VAL	3.5
41	2j	49	VAL	3.5
47	1p	82	GLN	3.5
1	2A	2117	A	3.5
1	2A	2135	A	3.5
1	2A	2169	A	3.5
41	1j	98	ILE	3.5

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Mol	Chain	Res	Type	RSRZ
51	1t	10	LEU	3.4
32	2a	1150	U	3.4
44	2m	12	ASN	3.4
32	1a	1026	G	3.4
32	1a	1030(A)	G	3.4
44	2m	100	GLY	3.4
33	1b	229	VAL	3.4
6	2G	50	ALA	3.4
49	1r	20	ALA	3.4
1	2A	2134	A	3.4
32	2a	1005	A	3.4
40	2i	56	LEU	3.4
1	2A	2794	C	3.4
33	2b	33	TYR	3.4
38	1g	156	TRP	3.4
55	2x	47	U	3.4
6	2G	182	LYS	3.4
33	2b	132	LYS	3.4
36	1e	85	GLY	3.4
41	2j	10	GLY	3.4
45	1n	55	GLY	3.4
1	1A	2165	G	3.4
15	2T	131	ALA	3.4
32	1a	1033	G	3.4
40	2i	82	ALA	3.4
57	1y	27	G	3.4
54	2w	73	A	3.4
21	2Z	159	PRO	3.4
1	1A	2803	C	3.4
1	2A	886	C	3.4
40	2i	4	TYR	3.4
32	2a	1040	U	3.4
33	1b	17	PHE	3.4
44	2m	6	GLY	3.4
21	2Z	166	SER	3.4
41	2j	46	ARG	3.4
1	2A	2318	G	3.4
32	1a	1021	G	3.4
57	2y	34	G	3.4
1	1A	2790	A	3.4
32	1a	1028	C	3.4
32	2a	1149	C	3.4

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Mol	Chain	Res	Type	RSRZ
32	1a	1257	U	3.4
33	2b	11	LEU	3.3
40	2i	19	LEU	3.3
52	2u	23	PRO	3.3
21	1Z	148	ASP	3.3
26	24	65	ASP	3.3
46	2o	89	GLY	3.3
1	2A	2174	C	3.3
32	2a	1043	C	3.3
1	1A	2172	U	3.3
34	2c	182	ILE	3.3
38	1g	79	ARG	3.3
8	1I	10	GLU	3.3
1	1A	879	G	3.3
1	2A	2160	G	3.3
32	2a	1036	G	3.3
57	1y	19	G	3.3
57	1y	34	G	3.3
1	1A	1054	A	3.3
1	2A	2158	A	3.3
32	2a	1035	A	3.3
33	1b	127	ILE	3.3
33	2b	165	VAL	3.3
41	2j	50	ILE	3.3
38	2g	76	ARG	3.3
41	2j	9	ARG	3.3
50	2s	81	ARG	3.3
1	1A	2137	C	3.3
32	2a	1018	C	3.3
11	2P	109	GLY	3.3
1	1A	899	A	3.3
1	2A	2119	A	3.3
1	2A	2801(A)	A	3.3
7	2H	19	VAL	3.3
21	2Z	174	VAL	3.3
51	2t	8	ARG	3.3
1	1A	1087	G	3.3
1	1A	2151	G	3.3
20	2Y	90	LEU	3.3
32	1a	1001(A)	G	3.3
32	2a	1004	A	3.3
33	1b	11	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
1	2A	2109	U	3.3
31	29	20	HIS	3.3
26	24	49	PHE	3.3
34	2c	8	ILE	3.2
33	2b	93	VAL	3.2
8	1I	146	ALA	3.2
1	1A	2150	U	3.2
1	1A	2162	G	3.2
1	2A	2127	G	3.2
1	2A	2792	G	3.2
21	2Z	167	PRO	3.2
32	1a	1024	G	3.2
1	2A	2142	C	3.2
1	2A	2143	C	3.2
56	2z	3	HIS	3.2
41	1j	66	ARG	3.2
42	2k	25	TYR	3.2
42	2k	75	TYR	3.2
44	1m	121	LYS	3.2
5	2F	6	VAL	3.2
1	1A	2130	U	3.2
1	1A	2173	A	3.2
32	1a	1532	U	3.2
54	1w	20	U	3.2
57	2y	35	A	3.2
1	1A	2168	G	3.2
32	2a	1003	G	3.2
1	1A	2804	C	3.2
32	1a	1008	C	3.2
26	14	69	LYS	3.2
51	1t	74	LYS	3.2
21	2Z	171	ILE	3.2
6	1G	146	TYR	3.2
50	2s	45	VAL	3.2
25	13	2	PRO	3.2
1	1A	2167	U	3.2
1	2A	2130	U	3.2
57	1y	20	U	3.2
32	1a	1005	A	3.2
57	1y	36	A	3.2
1	2A	881	G	3.2
1	2A	2149	G	3.2

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Mol	Chain	Res	Type	RSRZ
32	1a	1032	G	3.2
54	2w	70	G	3.2
1	1A	1064	C	3.2
1	2A	2164	C	3.2
32	1a	1038	C	3.2
41	2j	36	GLY	3.2
57	2y	68	C	3.2
41	2j	71	LEU	3.2
20	2Y	55	TYR	3.2
21	2Z	149	SER	3.2
32	2a	1278	U	3.2
1	1A	2158	A	3.2
4	2E	29	GLY	3.1
33	1b	10	LEU	3.1
1	2A	888	C	3.1
1	2A	1536	C	3.1
1	2A	2133	G	3.1
32	2a	1027	C	3.1
41	2j	77	PRO	3.1
43	1l	64	TYR	3.1
26	24	57	GLU	3.1
5	1F	15	SER	3.1
6	1G	182	LYS	3.1
7	2H	175	LYS	3.1
21	2Z	103	ARG	3.1
41	2j	5	ARG	3.1
45	2n	35	ARG	3.1
20	1Y	1	MET	3.1
42	2k	49	GLY	3.1
1	2A	2114	A	3.1
7	2H	7	LEU	3.1
19	2X	95	LEU	3.1
41	2j	88	LEU	3.1
33	1b	230	VAL	3.1
33	1b	125	PRO	3.1
41	1j	77	PRO	3.1
1	1A	2207	G	3.1
1	2A	2110	G	3.1
57	2y	18	G	3.1
3	2D	275	LYS	3.1
33	2b	39	ILE	3.1
50	2s	13	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
32	1a	1030(D)	A	3.1
34	1c	207	VAL	3.1
45	2n	18	VAL	3.1
40	2i	114	TYR	3.1
50	2s	80	TYR	3.1
1	1A	2128	C	3.1
32	2a	1037	C	3.1
54	2w	2	C	3.1
1	2A	2751	G	3.1
40	2i	126	SER	3.1
57	2y	6	G	3.1
7	2H	174	GLY	3.1
35	2d	2	GLY	3.1
38	2g	81	GLY	3.1
32	2a	1257	U	3.1
32	2a	1532	U	3.1
6	2G	2	PRO	3.1
7	2H	26	VAL	3.1
38	1g	83	ALA	3.1
1	1A	1070	A	3.1
1	1A	1508	A	3.1
32	2a	1531	A	3.1
40	2i	9	ARG	3.1
50	2s	29	ARG	3.1
50	2s	4	SER	3.1
1	2A	2140	C	3.1
32	2a	1006	C	3.1
1	1A	1071	G	3.0
1	2A	11	G	3.0
32	1a	346	G	3.0
32	1a	1009	G	3.0
41	2j	63	PHE	3.0
45	1n	44	LEU	3.0
42	2k	48	ILE	3.0
33	1b	131	PRO	3.0
41	2j	37	PRO	3.0
15	2T	28	VAL	3.0
33	2b	34	ALA	3.0
40	2i	106	ALA	3.0
51	1t	97	ALA	3.0
41	2j	13	HIS	3.0
42	2k	126	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
36	2e	20	GLN	3.0
1	1A	2171	A	3.0
57	1y	21	A	3.0
45	2n	61	TRP	3.0
26	14	59	PHE	3.0
36	2e	45	PHE	3.0
1	1A	2792	G	3.0
1	2A	2155	G	3.0
26	24	50	VAL	3.0
34	2c	195	VAL	3.0
38	1g	9	VAL	3.0
57	2y	12	U	3.0
4	1E	204	ALA	3.0
40	2i	20	ARG	3.0
41	2j	42	THR	3.0
34	2c	201	TYR	3.0
12	2Q	104	PHE	3.0
33	2b	41	ILE	3.0
44	1m	4	ILE	3.0
1	2A	2129	C	3.0
21	2Z	158	PRO	3.0
32	1a	1037	C	3.0
32	2a	999	C	3.0
33	2b	22	LYS	3.0
21	2Z	74	VAL	3.0
4	2E	204	ALA	3.0
45	2n	5	ALA	3.0
54	1w	5	G	3.0
1	2A	1026	U	3.0
32	1a	204	U	3.0
39	2h	70	GLN	3.0
42	2k	13	GLN	3.0
26	24	67	TYR	3.0
40	1i	79	LEU	3.0
41	2j	8	LEU	3.0
48	1q	98	LEU	3.0
1	2A	2173	A	3.0
4	2E	115	GLY	3.0
6	2G	52	ILE	3.0
19	1X	94	GLY	3.0
35	1d	167	GLY	3.0
40	1i	18	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
45	2n	7	ILE	3.0
44	2m	120	LYS	3.0
26	24	51	ASP	3.0
50	1s	12	ASP	3.0
45	2n	57	ARG	3.0
1	1A	2108	C	3.0
1	1A	2146	C	3.0
1	2A	1509	C	3.0
54	1w	2	C	3.0
33	2b	207	ALA	3.0
38	1g	7	ALA	3.0
41	1j	32	ALA	3.0
41	2j	76	ASN	3.0
7	2H	33	LEU	2.9
26	24	32	TYR	2.9
50	2s	16	LEU	2.9
3	1D	275	LYS	2.9
34	1c	2	GLY	2.9
1	1A	548	A	2.9
1	1A	2134	A	2.9
57	2y	21	A	2.9
29	27	47	ARG	2.9
41	2j	61	GLU	2.9
20	2Y	107	ASP	2.9
21	1Z	105	VAL	2.9
33	2b	189	ASP	2.9
34	2c	95	THR	2.9
1	1A	895	U	2.9
1	1A	2189	U	2.9
1	2A	2118	U	2.9
1	1A	2133	G	2.9
1	2A	1171	G	2.9
1	2A	2166	G	2.9
32	2a	1026	G	2.9
40	2i	90	PRO	2.9
40	2i	17	VAL	2.9
46	2o	60	VAL	2.9
34	2c	189	ALA	2.9
54	1w	4	C	2.9
32	2a	1126	U	2.9
35	2d	5	ILE	2.9
7	1H	174	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
21	2Z	147	GLY	2.9
19	2X	68	ARG	2.9
1	1A	883	G	2.9
1	2A	2116	G	2.9
1	2A	2168	G	2.9
33	2b	134	GLU	2.9
57	2y	57	G	2.9
40	1i	13	ALA	2.9
49	2r	20	ALA	2.9
53	2v	14	A	2.9
40	2i	27	THR	2.9
41	2j	16	LEU	2.9
1	1A	2142	C	2.9
1	2A	2144	U	2.9
6	1G	51	ARG	2.9
7	2H	60	ARG	2.9
51	2t	101	GLY	2.9
26	14	49	PHE	2.9
20	2Y	5	MET	2.9
33	1b	9	GLU	2.9
33	1b	134	GLU	2.9
40	2i	2	GLU	2.9
9	2N	9	VAL	2.9
21	2Z	165	VAL	2.9
32	2a	1117	G	2.9
33	2b	123	ALA	2.9
45	2n	22	THR	2.9
1	1A	1067	A	2.8
33	2b	44	LEU	2.8
51	2t	10	LEU	2.8
8	2I	82	ARG	2.8
38	1g	4	ARG	2.8
50	2s	68	GLY	2.8
7	2H	123	PHE	2.8
25	23	2	PRO	2.8
41	2j	47	PHE	2.8
1	1A	2161	C	2.8
21	2Z	2	GLU	2.8
32	1a	1029	C	2.8
48	2q	99	SER	2.8
33	2b	31	TYR	2.8
38	1g	85	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
40	2i	65	VAL	2.8
33	2b	75	LYS	2.8
1	2A	652(E)	G	2.8
32	2a	1021	G	2.8
42	2k	117	ASN	2.8
33	2b	175	ARG	2.8
33	2b	201	ILE	2.8
41	2j	38	ILE	2.8
51	2t	100	ILE	2.8
50	1s	8	GLY	2.8
41	2j	35	SER	2.8
1	1A	2129	C	2.8
21	2Z	128	VAL	2.8
45	1n	56	VAL	2.8
4	2E	195	LEU	2.8
40	2i	10	ARG	2.8
1	1A	2802	G	2.8
1	2A	1170	G	2.8
1	2A	2131	G	2.8
1	2A	2157	G	2.8
26	14	54	GLY	2.8
44	1m	6	GLY	2.8
1	2A	2170	A	2.8
26	24	59	PHE	2.8
33	2b	122	PHE	2.8
45	2n	36	PHE	2.8
21	1Z	52	SER	2.8
1	2A	895	U	2.8
26	14	63	TYR	2.8
55	1x	47	U	2.8
33	1b	133	LYS	2.8
1	1A	2143	C	2.8
1	2A	645	C	2.8
21	2Z	173	ALA	2.8
32	1a	1030	C	2.8
33	2b	120	ALA	2.8
34	2c	188	LEU	2.8
50	2s	30	LEU	2.8
33	2b	97	TRP	2.8
35	1d	154	ASN	2.8
41	2j	6	ILE	2.8
51	1t	100	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
51	2t	41	ILE	2.8
40	1i	39	GLY	2.8
43	2l	63	GLY	2.8
1	2A	2141	G	2.8
1	1A	1088	A	2.8
47	2p	82	GLN	2.8
40	1i	4	TYR	2.8
7	2H	113	VAL	2.8
33	1b	7	VAL	2.8
35	1d	198	VAL	2.8
1	1A	2174	C	2.7
1	2A	2179	C	2.7
32	1a	1030(B)	C	2.7
32	2a	470	C	2.7
40	2i	128	ARG	2.7
6	2G	20	ILE	2.7
9	2N	44	PRO	2.7
50	2s	14	HIS	2.7
7	2H	14	GLY	2.7
12	2Q	15	GLY	2.7
46	1o	89	GLY	2.7
1	1A	2131	G	2.7
1	1A	2801(A)	A	2.7
1	2A	2100	G	2.7
32	2a	1280	A	2.7
1	2A	2167	U	2.7
33	1b	165	VAL	2.7
33	2b	71	VAL	2.7
54	2w	45	U	2.7
33	1b	34	ALA	2.7
41	2j	90	LEU	2.7
9	2N	1	MET	2.7
41	2j	87	THR	2.7
1	1A	2139	C	2.7
32	1a	163	C	2.7
32	1a	1007	C	2.7
32	2a	1007	C	2.7
57	2y	13	C	2.7
41	1j	33	GLN	2.7
7	2H	52	VAL	2.7
33	1b	15	VAL	2.7
1	2A	271(K)	U	2.7

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Mol	Chain	Res	Type	RSRZ
32	2a	1000	U	2.7
38	2g	32	ARG	2.7
57	1y	12	U	2.7
57	2y	33	U	2.7
1	1A	880	G	2.7
1	2A	1112	G	2.7
1	2A	2124	G	2.7
1	2A	2182	G	2.7
32	2a	1023	G	2.7
32	2a	1024	G	2.7
57	2y	5	G	2.7
7	2H	128	PRO	2.7
21	2Z	137	ILE	2.7
41	1j	4	ILE	2.7
35	1d	173	TRP	2.7
38	1g	82	GLY	2.7
1	1A	889	C	2.7
57	2y	49	C	2.7
57	2y	67	C	2.7
37	1f	60	PHE	2.7
40	2i	101	PHE	2.7
41	2j	44	VAL	2.7
12	1Q	32	TYR	2.7
14	2S	3	ARG	2.7
38	1g	154	TYR	2.7
45	2n	10	ALA	2.7
1	1A	1175	U	2.7
1	1A	2122	U	2.7
1	2A	9	U	2.7
1	2A	2150	U	2.7
57	1y	59	U	2.7
1	1A	1509(A)	A	2.7
1	2A	1509(A)	A	2.7
21	2Z	121	HIS	2.7
41	2j	62	HIS	2.7
11	2P	76	LYS	2.7
1	1A	1093	G	2.7
1	1A	2120	G	2.7
32	2a	1030(C)	G	2.7
54	2w	5	G	2.7
45	2n	8	GLU	2.7
51	2t	96	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
52	2u	16	GLY	2.7
21	2Z	104	PHE	2.7
33	2b	70	PHE	2.7
1	2A	894	C	2.7
21	2Z	141	VAL	2.6
41	2j	85	LEU	2.6
45	2n	25	VAL	2.6
36	1e	21	ALA	2.6
42	1k	25	TYR	2.6
8	2I	109	ILE	2.6
21	2Z	95	PRO	2.6
34	2c	57	ILE	2.6
1	1A	1084	A	2.6
26	14	64	GLY	2.6
1	1A	2121	G	2.6
32	2a	485	G	2.6
11	2P	79	ARG	2.6
41	1j	46	ARG	2.6
52	2u	22	ARG	2.6
1	1A	886	C	2.6
1	2A	897	C	2.6
40	1i	126	SER	2.6
7	2H	11	VAL	2.6
38	2g	2	ALA	2.6
40	2i	94	ALA	2.6
44	2m	42	ALA	2.6
33	2b	19	HIS	2.6
45	2n	4	LYS	2.6
26	14	67	TYR	2.6
7	2H	12	PRO	2.6
35	1d	29	PRO	2.6
41	1j	87	THR	2.6
45	2n	14	PRO	2.6
11	1P	149	GLU	2.6
21	2Z	168	GLU	2.6
19	2X	94	GLY	2.6
1	1A	1073	A	2.6
1	2A	652(A)	A	2.6
34	2c	186	PHE	2.6
33	2b	21	ARG	2.6
36	2e	27	ARG	2.6
1	1A	10	G	2.6

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Mol	Chain	Res	Type	RSRZ
1	1A	11	G	2.6
1	1A	2805	G	2.6
41	1j	86	MET	2.6
21	2Z	125	LEU	2.6
57	1y	22	G	2.6
35	2d	112	VAL	2.6
44	2m	27	LYS	2.6
1	1A	1053	C	2.6
1	2A	2175	C	2.6
33	2b	113	HIS	2.6
56	1z	3	HIS	2.6
29	27	24	THR	2.6
3	1D	28	GLU	2.6
23	11	93	GLU	2.6
35	2d	156	GLU	2.6
9	2N	45	ASN	2.6
1	1A	1097	U	2.6
1	1A	2118	U	2.6
35	1d	87	GLY	2.6
50	1s	84	GLY	2.6
57	1y	47	U	2.6
14	1S	3	ARG	2.6
35	2d	73	ARG	2.6
40	2i	66	ARG	2.6
45	1n	57	ARG	2.6
52	1u	9	ARG	2.6
52	2u	6	ARG	2.6
1	1A	1046	A	2.6
32	1a	162	A	2.6
32	1a	344	A	2.6
48	1q	100	LYS	2.6
21	2Z	126	VAL	2.6
33	1b	40	HIS	2.6
1	1A	1056	G	2.6
1	1A	2152	G	2.6
32	1a	79	G	2.6
32	1a	1002	G	2.6
33	2b	29	ALA	2.6
34	2c	24	ALA	2.6
35	1d	195	ALA	2.6
54	2w	15	G	2.6
57	1y	24	G	2.6

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Mol	Chain	Res	Type	RSRZ
57	2y	1	G	2.6
1	1A	2794	C	2.6
26	14	57	GLU	2.6
26	24	52	THR	2.6
40	1i	103	THR	2.6
48	2q	96	GLU	2.6
32	1a	223	U	2.6
33	2b	105	PHE	2.6
34	1c	79	ARG	2.6
7	2H	64	LEU	2.5
17	2V	94	LEU	2.5
34	2c	87	LEU	2.5
40	1i	102	LEU	2.5
41	2j	7	LYS	2.5
45	2n	6	LEU	2.5
1	1A	278	A	2.5
1	1A	1077	A	2.5
33	2b	173	ALA	2.5
34	2c	200	ALA	2.5
49	2r	24	ALA	2.5
41	2j	39	PRO	2.5
26	24	31	ILE	2.5
33	1b	129	GLU	2.5
33	2b	222	ILE	2.5
34	2c	14	ILE	2.5
1	2A	2151	G	2.5
1	2A	2153	G	2.5
8	1I	40	THR	2.5
57	1y	53	G	2.5
57	2y	69	G	2.5
1	1A	34	C	2.5
23	21	28	GLY	2.5
54	1w	67	C	2.5
3	1D	38	LYS	2.5
32	1a	1000	U	2.5
40	2i	95	LYS	2.5
41	2j	99	LYS	2.5
50	2s	7	LYS	2.5
40	2i	79	LEU	2.5
50	2s	20	LEU	2.5
51	1t	13	LEU	2.5
52	2u	14	TRP	2.5

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Mol	Chain	Res	Type	RSRZ
50	2s	19	VAL	2.5
41	2j	26	ALA	2.5
6	2G	17	PRO	2.5
8	2I	7	GLU	2.5
33	2b	80	ILE	2.5
44	2m	4	ILE	2.5
33	2b	168	THR	2.5
47	2p	45	THR	2.5
33	2b	166	ASP	2.5
33	1b	33	TYR	2.5
51	1t	102	GLY	2.5
20	1Y	92	ASN	2.5
1	1A	271(M)	G	2.5
1	1A	1062	G	2.5
1	2A	171	G	2.5
1	1A	1075	C	2.5
8	1I	131	LYS	2.5
33	1b	22	LYS	2.5
50	2s	10	PHE	2.5
32	2a	1119	C	2.5
19	2X	92	LEU	2.5
39	1h	112	LEU	2.5
1	1A	271(K)	U	2.5
1	1A	2897	U	2.5
1	2A	2897	U	2.5
7	2H	79	VAL	2.5
40	1i	14	VAL	2.5
43	1l	18	VAL	2.5
21	1Z	167	PRO	2.5
40	2i	49	PRO	2.5
8	1I	109	ILE	2.5
33	1b	39	ILE	2.5
34	2c	5	ILE	2.5
35	2d	192	GLU	2.5
44	2m	9	ILE	2.5
1	2A	2629	A	2.5
53	2v	15	A	2.5
48	1q	7	THR	2.5
40	2i	39	GLY	2.5
33	2b	147	LYS	2.5
33	2b	169	LYS	2.5
50	2s	32	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
40	1i	47	LEU	2.5
40	1i	99	LEU	2.5
49	2r	66	LEU	2.5
1	1A	271(I)	G	2.5
1	2A	2107	C	2.5
1	2A	2120	G	2.5
32	1a	1031	G	2.5
41	2j	68	HIS	2.5
57	1y	18	G	2.5
12	2Q	106	VAL	2.5
40	1i	106	ALA	2.5
40	2i	84	ALA	2.5
45	2n	30	ALA	2.5
6	2G	48	GLU	2.5
8	2I	64	GLU	2.5
16	2U	62	ILE	2.5
21	2Z	127	LYS	2.5
41	1j	100	THR	2.5
43	2l	126	LYS	2.5
48	2q	100	LYS	2.5
1	1A	887	A	2.5
1	1A	1177	A	2.5
21	2Z	70	LEU	2.4
41	2j	40	LEU	2.4
50	1s	16	LEU	2.4
1	1A	2149	G	2.4
32	2a	1020	U	2.4
33	1b	136	VAL	2.4
36	1e	69	VAL	2.4
40	1i	17	VAL	2.4
40	1i	108	VAL	2.4
43	2l	39	VAL	2.4
57	1y	67	C	2.4
40	1i	21	PRO	2.4
55	1x	46	G	2.4
33	2b	170	GLU	2.4
47	2p	59	TRP	2.4
48	1q	97	SER	2.4
34	2c	79	ARG	2.4
46	1o	88	ARG	2.4
52	2u	17	THR	2.4
8	2I	20	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
1	1A	890	A	2.4
8	2I	38	LEU	2.4
34	2c	34	LEU	2.4
33	2b	16	HIS	2.4
33	2b	40	HIS	2.4
33	1b	234	PRO	2.4
33	2b	232	PRO	2.4
45	2n	33	VAL	2.4
1	2A	2189	U	2.4
33	1b	120	ALA	2.4
33	2b	12	GLU	2.4
40	1i	15	ALA	2.4
41	2j	64	GLU	2.4
51	1t	59	ALA	2.4
1	1A	1072	C	2.4
6	1G	52	ILE	2.4
3	2D	262	ARG	2.4
7	1H	6	ARG	2.4
9	2N	83	LYS	2.4
32	1a	221	C	2.4
32	2a	1019	C	2.4
33	2b	133	LYS	2.4
46	1o	3	ILE	2.4
35	2d	132	ARG	2.4
44	1m	102	ARG	2.4
52	2u	15	ARG	2.4
1	1A	2123	G	2.4
1	1A	2125	G	2.4
1	2A	1533	G	2.4
1	2A	2123	G	2.4
32	1a	181	G	2.4
32	1a	1030(C)	G	2.4
57	2y	44	G	2.4
34	2c	9	GLY	2.4
40	2i	8	GLY	2.4
42	2k	17	GLY	2.4
21	2Z	148	ASP	2.4
6	2G	3	LEU	2.4
21	1Z	150	LEU	2.4
38	1g	16	LEU	2.4
26	14	32	TYR	2.4
7	2H	36	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
21	2Z	162	GLU	2.4
33	2b	101	MET	2.4
40	2i	11	LYS	2.4
7	2H	6	ARG	2.4
41	2j	33	GLN	2.4
41	2j	70	ARG	2.4
51	1t	95	ALA	2.4
41	2j	98	ILE	2.4
42	1k	13	GLN	2.4
57	2y	59	U	2.4
1	1A	645	C	2.4
1	1A	1052	C	2.4
1	1A	1076	C	2.4
1	1A	2107	C	2.4
1	1A	2163	C	2.4
33	2b	38	GLY	2.4
34	2c	25	GLY	2.4
35	2d	124	GLY	2.4
36	1e	97	GLY	2.4
1	2A	10	G	2.4
1	2A	614(B)	G	2.4
1	2A	2319	G	2.4
14	2S	32	LEU	2.4
32	2a	1124	G	2.4
36	2e	5	ASP	2.4
37	1f	83	ASP	2.4
41	1j	88	LEU	2.4
42	1k	36	ASP	2.4
54	1w	69	G	2.4
57	1y	44	G	2.4
57	1y	57	G	2.4
6	2G	132	ASN	2.4
39	1h	62	TYR	2.4
1	1A	1460	A	2.4
7	1H	175	LYS	2.4
32	2a	1041	A	2.4
33	2b	83	MET	2.4
39	1h	98	LYS	2.4
40	1i	127	LYS	2.4
57	2y	23	A	2.4
44	2m	7	VAL	2.4
48	2q	77	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
12	1Q	6	ARG	2.4
15	1T	129	ARG	2.4
26	24	68	ARG	2.4
33	2b	129	GLU	2.4
7	2H	145	ALA	2.4
10	2O	69	ILE	2.4
34	2c	61	ALA	2.4
34	2c	149	ALA	2.4
41	2j	27	ALA	2.4
50	2s	31	ILE	2.4
7	2H	38	SER	2.4
7	2H	48	GLY	2.4
33	1b	97	TRP	2.4
47	1p	48	TRP	2.4
52	2u	2	GLY	2.4
1	1A	2896	C	2.3
22	20	3	HIS	2.3
54	2w	3	C	2.3
54	2w	13	C	2.3
57	1y	13	C	2.3
57	2y	48	C	2.3
35	1d	110	PHE	2.3
41	2j	54	PHE	2.3
1	1A	882	G	2.3
1	1A	1173	G	2.3
1	1A	2894	G	2.3
1	2A	880	G	2.3
32	2a	1010	G	2.3
34	1c	184	TYR	2.3
40	2i	92	TYR	2.3
52	1u	18	TYR	2.3
50	2s	18	LYS	2.3
50	2s	42	PRO	2.3
8	1I	41	GLU	2.3
12	2Q	6	ARG	2.3
20	2Y	45	VAL	2.3
33	2b	15	VAL	2.3
33	2b	112	VAL	2.3
34	1c	55	VAL	2.3
50	1s	11	VAL	2.3
1	1A	1045	A	2.3
1	2A	878	A	2.3

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Mol	Chain	Res	Type	RSRZ
2	2B	120	A	2.3
16	1U	117	GLN	2.3
20	2Y	44	ILE	2.3
32	2a	1251	A	2.3
32	2a	1503	A	2.3
33	2b	127	ILE	2.3
51	1t	63	ILE	2.3
1	1A	12	U	2.3
7	2H	120	GLY	2.3
36	2e	23	GLY	2.3
57	2y	45	U	2.3
17	2V	71	LEU	2.3
33	2b	140	HIS	2.3
37	2f	21	LEU	2.3
22	20	45	PHE	2.3
45	2n	37	PHE	2.3
51	1t	64	ASP	2.3
1	2A	2789	C	2.3
32	1a	1039	C	2.3
32	1a	1137	C	2.3
32	2a	1249	C	2.3
57	1y	48	C	2.3
57	2y	56	C	2.3
6	2G	118	ARG	2.3
7	2H	21	PRO	2.3
7	2H	29	PRO	2.3
40	2i	98	PRO	2.3
41	2j	66	ARG	2.3
7	2H	44	VAL	2.3
8	2I	136	VAL	2.3
20	2Y	49	VAL	2.3
21	2Z	139	VAL	2.3
25	13	60	GLU	2.3
32	2a	1253	G	2.3
34	2c	137	ALA	2.3
34	2c	152	ILE	2.3
41	2j	23	ILE	2.3
32	2a	1256	A	2.3
26	24	66	SER	2.3
33	1b	38	GLY	2.3
45	1n	60	SER	2.3
50	1s	26	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
50	2s	8	GLY	2.3
34	1c	87	LEU	2.3
45	2n	49	HIS	2.3
1	1A	271(L)	U	2.3
1	1A	1026	U	2.3
32	1a	1040	U	2.3
20	2Y	28	LYS	2.3
40	2i	118	LYS	2.3
44	1m	27	LYS	2.3
33	2b	48	MET	2.3
1	2A	2108	C	2.3
8	1I	113	ARG	2.3
40	1i	9	ARG	2.3
33	2b	148	TYR	2.3
7	2H	49	VAL	2.3
1	2A	892	G	2.3
57	2y	70	G	2.3
21	2Z	76	LEU	2.3
40	2i	67	GLY	2.3
40	2i	96	LEU	2.3
51	1t	24	LEU	2.3
1	1A	1174	A	2.3
1	2A	2171	A	2.3
32	2a	977	A	2.3
40	1i	7	THR	2.3
21	1Z	104	PHE	2.3
51	2t	74	LYS	2.3
34	1c	18	TRP	2.3
57	2y	47	U	2.3
21	2Z	140	ASP	2.3
39	2h	4	ASP	2.3
41	2j	73	ASP	2.3
41	2j	86	MET	2.3
15	1T	115	ARG	2.3
33	2b	36	ARG	2.3
7	2H	10	PRO	2.3
8	2I	134	PRO	2.3
39	2h	72	PRO	2.3
1	2A	2183	C	2.3
7	2H	72	ILE	2.3
8	2I	145	VAL	2.3
21	2Z	161	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
31	29	16	VAL	2.3
32	1a	1006	C	2.3
32	1a	1019	C	2.3
33	2b	200	ILE	2.3
41	2j	72	VAL	2.3
43	1l	55	VAL	2.3
57	1y	75	C	2.3
12	2Q	117	ALA	2.3
36	1e	95	ALA	2.3
44	1m	5	ALA	2.3
11	1P	44	GLY	2.2
27	25	58	LEU	2.2
33	2b	138	LEU	2.2
34	2c	178	LEU	2.2
39	2h	2	LEU	2.2
41	1j	62	HIS	2.2
45	2n	47	LEU	2.2
45	2n	51	GLY	2.2
50	1s	71	LEU	2.2
1	1A	1091	G	2.2
1	1A	2148	G	2.2
1	1A	2156	G	2.2
1	2A	100	G	2.2
7	2H	13	LYS	2.2
45	2n	16	PHE	2.2
19	1X	68	ARG	2.2
24	22	51	ARG	2.2
38	1g	78	ARG	2.2
35	2d	154	ASN	2.2
57	1y	45	U	2.2
57	2y	66	U	2.2
15	2T	128	GLU	2.2
21	2Z	145	GLU	2.2
34	2c	28	GLN	2.2
8	1I	107	VAL	2.2
34	2c	23	TYR	2.2
34	2c	99	VAL	2.2
34	2c	124	ILE	2.2
34	2c	193	TYR	2.2
40	2i	53	VAL	2.2
40	2i	62	TYR	2.2
44	2m	21	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
48	2q	23	VAL	2.2
1	1A	1080	C	2.2
1	1A	2177	C	2.2
33	1b	140	HIS	2.2
33	1b	145	LEU	2.2
33	2b	187	LEU	2.2
51	1t	62	LEU	2.2
21	2Z	156	LYS	2.2
33	2b	55	PHE	2.2
40	1i	101	PHE	2.2
7	1H	3	ARG	2.2
11	2P	77	ARG	2.2
41	1j	29	ARG	2.2
47	1p	81	ARG	2.2
1	1A	1089	G	2.2
1	1A	2100	G	2.2
1	1A	2106	G	2.2
1	1A	2157	G	2.2
1	2A	1114	G	2.2
1	2A	2807	G	2.2
6	2G	49	ASP	2.2
32	2a	998	G	2.2
20	2Y	66	PRO	2.2
1	1A	2132	U	2.2
1	2A	528	A	2.2
1	2A	2176	A	2.2
46	1o	19	PRO	2.2
1	2A	2895	U	2.2
54	2w	14	A	2.2
51	1t	60	GLU	2.2
24	22	70	GLN	2.2
38	2g	9	VAL	2.2
40	2i	81	ILE	2.2
48	2q	9	VAL	2.2
40	2i	125	TYR	2.2
51	2t	68	LYS	2.2
50	2s	26	GLY	2.2
24	22	1	MET	2.2
32	2a	995	C	2.2
32	2a	1029	C	2.2
35	1d	137	SER	2.2
48	1q	99	SER	2.2

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Mol	Chain	Res	Type	RSRZ
7	2H	39	PRO	2.2
20	2Y	53	PRO	2.2
34	2c	19	GLU	2.2
38	1g	8	GLU	2.2
44	1m	106	ASN	2.2
1	1A	2127	G	2.2
1	2A	157	U	2.2
1	2A	1113	U	2.2
32	1a	1446	U	2.2
54	1w	47	U	2.2
8	1I	19	VAL	2.2
8	2I	79	ILE	2.2
16	2U	88	ILE	2.2
29	17	46	VAL	2.2
41	2j	94	VAL	2.2
51	2t	63	ILE	2.2
8	1I	45	LYS	2.2
33	2b	161	ALA	2.2
35	1d	138	TYR	2.2
45	2n	20	ALA	2.2
51	2t	94	ALA	2.2
6	2G	53	LEU	2.2
33	2b	10	LEU	2.2
10	2O	112	MET	2.2
3	2D	263	ARG	2.2
6	2G	51	ARG	2.2
8	2I	86	THR	2.2
15	2T	108	ARG	2.2
15	2T	115	ARG	2.2
21	2Z	79	ARG	2.2
25	23	29	ARG	2.2
36	2e	25	ARG	2.2
41	1j	79	ARG	2.2
47	2p	28	ARG	2.2
21	1Z	166	SER	2.2
51	1t	11	SER	2.2
1	1A	271(J)	C	2.2
1	2A	893	C	2.2
32	2a	1277	C	2.2
6	1G	26	GLN	2.2
6	1G	137	GLU	2.2
16	2U	117	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
1	1A	1083	U	2.2
1	2A	2122	U	2.2
1	2A	2808	U	2.2
26	14	50	VAL	2.2
31	29	3	VAL	2.2
31	29	25	VAL	2.2
32	2a	1219	U	2.2
33	2b	42	ILE	2.2
34	2c	77	ILE	2.2
41	1j	75	ILE	2.2
33	2b	164	VAL	2.2
1	1A	545	G	2.2
1	1A	2893	G	2.2
1	2A	229	A	2.2
4	2E	28	ALA	2.2
32	1a	160	A	2.2
32	2a	1009	G	2.2
32	2a	1123	A	2.2
32	2a	1224	G	2.2
32	2a	1287	A	2.2
34	2c	60	ALA	2.2
36	1e	48	ALA	2.2
40	1i	76	ALA	2.2
57	1y	7	A	2.2
57	2y	22	G	2.2
57	2y	71	G	2.2
5	2F	20	LEU	2.1
14	1S	48	LEU	2.1
35	2d	157	LEU	2.1
44	2m	70	LEU	2.1
47	1p	38	TYR	2.1
21	2Z	106	GLY	2.1
5	1F	17	ARG	2.1
29	17	41	ARG	2.1
35	2d	47	ARG	2.1
38	2g	79	ARG	2.1
52	2u	9	ARG	2.1
33	2b	192	SER	2.1
34	2c	20	SER	2.1
40	2i	37	PHE	2.1
20	2Y	82	PRO	2.1
32	2a	1223	C	2.1

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Mol	Chain	Res	Type	RSRZ
57	1y	49	C	2.1
57	1y	68	C	2.1
57	2y	75	C	2.1
18	2W	60	ASN	2.1
34	1c	14	ILE	2.1
41	1j	55	LYS	2.1
7	2H	50	VAL	2.1
7	2H	125	VAL	2.1
15	2T	30	VAL	2.1
34	2c	198	VAL	2.1
32	1a	182	U	2.1
32	2a	1148	U	2.1
33	1b	186	ALA	2.1
33	2b	118	LEU	2.1
40	2i	15	ALA	2.1
50	1s	5	LEU	2.1
1	1A	878	A	2.1
1	2A	1508	A	2.1
7	2H	157	TYR	2.1
32	1a	197	A	2.1
32	2a	969	A	2.1
32	2a	1248	A	2.1
34	2c	29	TYR	2.1
21	2Z	122	ARG	2.1
38	2g	55	GLY	2.1
1	1A	2154	G	2.1
1	2A	2181	G	2.1
1	2A	2894	G	2.1
32	2a	1022	G	2.1
32	2a	1120	G	2.1
34	2c	15	THR	2.1
40	2i	18	PHE	2.1
6	2G	54	GLU	2.1
8	1I	117	GLU	2.1
26	24	30	GLU	2.1
33	1b	126	GLU	2.1
6	1G	147	ASP	2.1
36	1e	117	ASP	2.1
45	2n	17	LYS	2.1
49	2r	84	LYS	2.1
50	2s	53	ASN	2.1
32	1a	345	C	2.1

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Mol	Chain	Res	Type	RSRZ
33	2b	172	ILE	2.1
33	2b	185	ILE	2.1
54	2w	67	C	2.1
5	1F	6	VAL	2.1
12	2Q	52	VAL	2.1
34	2c	70	VAL	2.1
8	2I	55	ALA	2.1
17	2V	20	LEU	2.1
33	1b	29	ALA	2.1
33	2b	154	LEU	2.1
33	2b	171	ALA	2.1
36	1e	138	ALA	2.1
40	1i	50	LEU	2.1
50	2s	24	ALA	2.1
26	24	55	ARG	2.1
29	27	23	ARG	2.1
32	1a	1020	U	2.1
32	2a	1025	U	2.1
32	2a	1125	U	2.1
33	1b	130	ARG	2.1
45	2n	31	ARG	2.1
51	1t	8	ARG	2.1
8	2I	34	GLY	2.1
45	2n	55	GLY	2.1
40	2i	88	TYR	2.1
44	2m	23	TYR	2.1
44	2m	87	TYR	2.1
1	2A	1847	A	2.1
8	2I	108	THR	2.1
50	2s	79	THR	2.1
46	2o	19	PRO	2.1
1	2A	879	G	2.1
32	2a	1011	G	2.1
32	2a	1042	G	2.1
32	2a	1131	G	2.1
7	2H	58	GLU	2.1
17	2V	56	SER	2.1
54	1w	15	G	2.1
11	2P	38	GLN	2.1
21	1Z	2	GLU	2.1
33	2b	143	GLU	2.1
40	2i	3	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
14	2S	11	LYS	2.1
35	1d	86	LYS	2.1
8	1I	38	LEU	2.1
8	2I	107	VAL	2.1
9	1N	9	VAL	2.1
34	1c	47	LEU	2.1
34	2c	52	LEU	2.1
40	2i	86	VAL	2.1
42	1k	14	VAL	2.1
43	2l	84	LEU	2.1
1	2A	889	C	2.1
1	2A	898	C	2.1
7	2H	20	ALA	2.1
32	1a	479	C	2.1
32	2a	1116	C	2.1
7	2H	51	ARG	2.1
7	2H	96	ALA	2.1
15	2T	111	ARG	2.1
21	2Z	51	ALA	2.1
34	2c	92	ALA	2.1
38	1g	2	ALA	2.1
40	2i	119	ALA	2.1
42	2k	89	ALA	2.1
55	1x	69	C	2.1
21	2Z	81	ARG	2.1
43	2l	97	ARG	2.1
46	2o	88	ARG	2.1
48	2q	75	ARG	2.1
7	2H	135	GLY	2.1
12	2Q	33	GLY	2.1
21	2Z	160	GLY	2.1
32	1a	65	U	2.1
32	1a	90	U	2.1
38	1g	26	PHE	2.1
41	2j	41	PRO	2.1
50	2s	48	THR	2.1
14	2S	83	LYS	2.1
32	1a	143	A	2.1
33	2b	135	GLN	2.1
37	1f	27	GLN	2.1
44	2m	65	LYS	2.1
54	1w	7	A	2.1

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Mol	Chain	Res	Type	RSRZ
57	1y	58	A	2.1
1	1A	1099	G	2.1
1	1A	2182	G	2.1
32	2a	630	G	2.1
32	2a	993	G	2.1
39	1h	80	ILE	2.1
40	2i	58	HIS	2.1
57	2y	65	G	2.1
12	2Q	1	MET	2.1
14	2S	61	ASN	2.1
21	1Z	120	ILE	2.1
40	2i	63	ILE	2.1
41	1j	76	ASN	2.1
42	2k	36	ASP	2.1
50	1s	40	ILE	2.1
8	2I	75	LEU	2.0
39	2h	53	VAL	2.0
41	1j	85	LEU	2.0
6	2G	21	ARG	2.0
44	1m	3	ARG	2.0
44	2m	11	ARG	2.0
10	2O	11	ALA	2.0
33	1b	13	ALA	2.0
40	2i	43	ALA	2.0
45	2n	59	ALA	2.0
49	2r	60	ALA	2.0
26	24	19	GLY	2.0
32	1a	848	C	2.0
41	2j	93	GLY	2.0
54	1w	3	C	2.0
57	1y	43	C	2.0
57	2y	4	C	2.0
57	2y	43	C	2.0
21	2Z	99	TYR	2.0
26	24	25	TYR	2.0
34	2c	48	TYR	2.0
48	2q	95	TYR	2.0
47	1p	80	PHE	2.0
12	2Q	141	GLN	2.0
20	1Y	91	GLU	2.0
23	21	83	GLU	2.0
33	2b	35	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
40	1i	12	GLU	2.0
40	1i	35	GLU	2.0
21	1Z	149	SER	2.0
1	1A	229	A	2.0
1	2A	655	A	2.0
1	2A	901	A	2.0
1	2A	2892	A	2.0
33	2b	208	ILE	2.0
33	2b	211	ILE	2.0
34	2c	202	ILE	2.0
35	1d	70	ILE	2.0
39	2h	100	ILE	2.0
44	2m	106	ASN	2.0
6	2G	133	LEU	2.0
21	2Z	150	LEU	2.0
35	2d	155	LEU	2.0
38	1g	12	LEU	2.0
39	1h	2	LEU	2.0
5	2F	183	VAL	2.0
8	1I	142	VAL	2.0
14	2S	14	VAL	2.0
21	1Z	139	VAL	2.0
40	2i	109	VAL	2.0
43	2l	19	ARG	2.0
44	2m	53	VAL	2.0
47	1p	21	VAL	2.0
52	1u	15	ARG	2.0
1	1A	275	G	2.0
1	1A	881	G	2.0
1	1A	1055	G	2.0
1	1A	1537	G	2.0
1	2A	271(M)	G	2.0
32	1a	306	G	2.0
54	1w	44	G	2.0
57	1y	69	G	2.0
5	2F	21	ALA	2.0
42	1k	15	ALA	2.0
51	2t	47	GLY	2.0
44	2m	64	TRP	2.0
34	1c	135	LYS	2.0
38	2g	35	LYS	2.0
1	2A	271(J)	C	2.0

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Mol	Chain	Res	Type	RSRZ
1	2A	614(A)	U	2.0
1	2A	2132	U	2.0
32	2a	1008	C	2.0
32	2a	1363	C	2.0
33	2b	125	PRO	2.0
54	2w	4	C	2.0
55	1x	68	C	2.0
57	1y	25	C	2.0
9	2N	75	TYR	2.0
33	1b	190	THR	2.0
33	1b	231	GLU	2.0
33	2b	86	GLU	2.0
33	2b	199	TYR	2.0
34	1c	23	TYR	2.0
34	2c	184	TYR	2.0
34	2c	192	THR	2.0
40	1i	59	PHE	2.0
41	2j	48	THR	2.0
42	1k	75	TYR	2.0
42	2k	125	PHE	2.0
47	1p	22	THR	2.0
47	1p	16	HIS	2.0
33	2b	162	ILE	2.0
34	2c	39	ILE	2.0
41	1j	74	ILE	2.0
15	2T	103	ARG	2.0
36	2e	18	ARG	2.0
38	2g	115	ARG	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	4SU	2y	8	20/21	0.33	0.19	97,104,109,125	0
57	PSU	1y	55	20/21	0.47	0.18	98,101,103,116	0
57	5MU	2y	54	21/22	0.48	0.18	96,100,108,126	0
57	G7M	2y	46	24/25	0.50	0.16	91,99,107,122	0
57	G7M	1y	46	24/25	0.51	0.18	95,99,103,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MIA	2y	37	22/30	0.51	0.18	89,98,112,126	0
57	4SU	1y	8	20/21	0.56	0.16	98,100,110,115	0
57	PSU	2y	55	20/21	0.59	0.15	94,99,102,107	0
57	5MU	1y	54	21/22	0.60	0.17	93,97,101,116	0
57	MIA	1y	37	22/30	0.62	0.19	89,96,105,116	0
57	PSU	1y	39	20/21	0.66	0.15	88,94,106,106	0
57	PSU	2y	39	20/21	0.69	0.14	91,97,105,115	0
57	PSU	2y	32	20/21	0.71	0.14	93,97,103,116	0
54	G7M	2w	46	24/25	0.71	0.15	88,96,107,121	0
57	PSU	1y	32	20/21	0.73	0.16	90,93,105,108	0
54	G7M	1w	46	24/25	0.73	0.14	79,86,100,116	0
54	4SU	2w	8	20/21	0.82	0.12	91,94,108,111	0
54	PSU	2w	55	20/21	0.83	0.11	84,86,95,101	0
56	FME	1z	1	10/11	0.85	0.22	61,66,74,77	0
54	4SU	1w	8	20/21	0.86	0.14	82,88,93,97	0
54	PSU	1w	55	20/21	0.86	0.12	60,73,84,85	0
56	FME	2z	1	10/11	0.86	0.28	70,75,82,82	0
54	5MU	2w	54	21/22	0.88	0.11	75,83,86,92	0
55	PSU	1x	55	20/21	0.88	0.10	63,68,82,85	0
55	PSU	2x	55	20/21	0.88	0.11	74,79,86,88	0
54	MIA	2w	37	25/30	0.89	0.14	63,75,83,105	0
55	4SU	2x	8	20/21	0.89	0.13	79,82,85,87	0
32	2MG	2a	1207	24/25	0.89	0.12	74,84,86,88	0
54	MIA	1w	37	29/30	0.89	0.18	56,63,77,92	0
55	5MU	2x	54	21/22	0.90	0.13	76,81,85,88	0
55	5MU	1x	54	21/22	0.91	0.11	66,70,75,81	0
54	PSU	2w	32	20/21	0.91	0.12	75,82,86,89	0
1	5MU	2A	1915	21/22	0.92	0.10	62,66,70,73	0
32	PSU	2a	516	20/21	0.93	0.10	60,73,77,78	0
32	G7M	2a	527	24/25	0.93	0.12	61,68,71,74	0
54	PSU	1w	32	20/21	0.93	0.11	59,65,74,75	0
32	2MG	1a	1207	24/25	0.93	0.10	70,73,77,80	0
1	PSU	2A	1917	20/21	0.93	0.10	57,64,71,75	0
55	5MC	1x	32	21/22	0.93	0.13	56,60,66,68	0
55	5MC	2x	32	21/22	0.93	0.12	68,72,76,77	0
55	4SU	1x	8	20/21	0.94	0.10	62,68,70,71	0
54	PSU	2w	39	20/21	0.94	0.11	68,79,86,89	0
32	M2G	2a	966	25/26	0.94	0.13	61,67,76,80	0
32	5MC	2a	967	21/22	0.94	0.12	62,69,75,82	0
43	0TD	1l	92	10/11	0.94	0.11	51,56,58,71	0
32	5MC	2a	1400	21/22	0.94	0.13	64,69,76,80	0
32	4OC	2a	1402	22/23	0.94	0.11	56,61,64,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
43	0TD	2l	92	10/11	0.94	0.10	64,67,70,75	0
1	5MC	2A	1962	21/22	0.94	0.10	43,52,60,68	0
54	5MU	1w	54	21/22	0.94	0.09	52,63,67,69	0
32	G7M	1a	527	24/25	0.94	0.10	49,56,61,63	0
32	5MC	1a	967	21/22	0.95	0.10	49,56,62,63	0
32	PSU	1a	516	20/21	0.95	0.07	55,61,66,67	0
1	PSU	1A	1917	20/21	0.95	0.08	52,56,60,61	0
32	M2G	1a	966	25/26	0.95	0.11	51,55,63,66	0
1	OMC	2A	1920	21/22	0.95	0.09	49,60,64,67	0
32	5MC	2a	1404	21/22	0.95	0.10	47,55,59,63	0
32	UR3	2a	1498	21/22	0.95	0.11	53,58,62,63	0
32	MA6	2a	1518	24/25	0.95	0.10	53,63,69,70	0
32	MA6	2a	1519	24/25	0.96	0.11	55,62,65,66	0
1	5MU	1A	1915	21/22	0.96	0.09	47,56,60,61	0
55	8AN	2x	76	22/23	0.96	0.09	41,48,54,61	0
54	PSU	1w	39	20/21	0.96	0.09	61,66,76,78	0
32	5MC	1a	1407	21/22	0.96	0.09	42,46,49,52	0
54	F3N	2w	76	33/34	0.96	0.10	41,47,51,52	0
1	5MC	1A	1942	21/22	0.96	0.09	35,45,49,56	0
1	5MC	2A	1942	21/22	0.96	0.09	53,59,65,71	0
32	5MC	2a	1407	21/22	0.96	0.08	51,57,65,68	0
1	2MU	2A	2552	21/23	0.96	0.08	39,50,54,57	0
55	8AN	1x	76	22/23	0.96	0.08	22,30,37,48	0
32	MA6	1a	1519	24/25	0.96	0.09	40,46,53,56	0
32	4OC	1a	1402	22/23	0.97	0.09	44,50,52,53	0
32	5MC	1a	1400	21/22	0.97	0.10	49,56,59,63	0
32	MA6	1a	1518	24/25	0.97	0.08	39,45,49,51	0
1	PSU	1A	1911	20/21	0.97	0.06	43,51,58,58	0
1	PSU	2A	2605	20/21	0.97	0.08	36,43,50,52	0
1	PSU	2A	1911	20/21	0.97	0.08	53,58,63,63	0
1	5MU	2A	1939	21/22	0.97	0.07	35,43,49,51	0
32	5MC	1a	1404	21/22	0.98	0.07	38,45,49,50	0
1	OMG	2A	2251	24/25	0.98	0.07	39,46,49,58	0
1	8AH	2A	2503	24/25	0.98	0.09	39,44,48,52	0
1	2MU	1A	2552	21/23	0.98	0.06	25,32,35,37	0
1	5MU	1A	1939	21/22	0.98	0.07	25,33,37,39	0
1	PSU	1A	2605	20/21	0.98	0.06	27,32,34,35	0
32	UR3	1a	1498	21/22	0.98	0.07	39,45,50,52	0
54	F3N	1w	76	33/34	0.98	0.07	24,29,34,36	0
1	OMC	1A	1920	21/22	0.98	0.06	39,49,52,55	0
1	5MC	1A	1962	21/22	0.99	0.05	31,40,43,49	0
1	8AH	1A	2503	24/25	0.99	0.06	21,29,33,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
1	OMG	1A	2251	24/25	0.99	0.06	25,29,31,33	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(\AA^2)	Q<0.9
58	MG	2A	3395	1/1	0.33	0.26	88,88,88,88	0
58	MG	2v	102	1/1	0.54	0.39	87,87,87,87	0
58	MG	2a	1798	1/1	0.55	0.30	92,92,92,92	0
58	MG	1A	4028	1/1	0.55	0.28	83,83,83,83	0
58	MG	1B	222	1/1	0.59	0.32	84,84,84,84	0
58	MG	2A	3259	1/1	0.60	0.32	82,82,82,82	0
58	MG	2A	3277	1/1	0.61	0.22	77,77,77,77	0
58	MG	1a	1729	1/1	0.61	0.23	78,78,78,78	0
58	MG	2A	3265	1/1	0.62	0.42	85,85,85,85	0
58	MG	1W	206	1/1	0.63	0.39	56,56,56,56	0
58	MG	1x	109	1/1	0.63	0.20	95,95,95,95	0
58	MG	1A	3761	1/1	0.64	0.37	79,79,79,79	0
58	MG	2a	1665	1/1	0.65	0.26	86,86,86,86	0
58	MG	2A	3248	1/1	0.65	0.34	79,79,79,79	0
58	MG	2A	3561	1/1	0.65	0.28	79,79,79,79	0
58	MG	1A	3748	1/1	0.66	0.22	71,71,71,71	0
58	MG	2a	1691	1/1	0.67	0.34	82,82,82,82	0
58	MG	1A	3899	1/1	0.68	0.29	81,81,81,81	0
58	MG	1A	3946	1/1	0.68	0.12	86,86,86,86	0
58	MG	2a	1771	1/1	0.68	0.27	77,77,77,77	0
58	MG	1A	3956	1/1	0.68	0.20	59,59,59,59	0
58	MG	1a	1666	1/1	0.68	0.30	77,77,77,77	0
58	MG	1A	3670	1/1	0.69	0.27	71,71,71,71	0
58	MG	1A	3487	1/1	0.69	0.25	70,70,70,70	0
58	MG	2A	3512	1/1	0.69	0.21	71,71,71,71	0
58	MG	1A	4009	1/1	0.69	0.19	60,60,60,60	0
58	MG	2A	3605	1/1	0.69	0.18	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3947	1/1	0.70	0.17	85,85,85,85	0
58	MG	1A	4027	1/1	0.70	0.23	80,80,80,80	0
58	MG	2A	3649	1/1	0.70	0.24	72,72,72,72	0
58	MG	2a	1782	1/1	0.70	0.27	82,82,82,82	0
58	MG	2B	210	1/1	0.70	0.28	83,83,83,83	0
58	MG	2l	202	1/1	0.70	0.30	74,74,74,74	0
58	MG	2a	1610	1/1	0.70	0.30	84,84,84,84	0
58	MG	1A	3782	1/1	0.71	0.25	78,78,78,78	0
58	MG	1a	1724	1/1	0.71	0.25	81,81,81,81	0
58	MG	1E	310	1/1	0.71	0.23	72,72,72,72	0
58	MG	1A	3260	1/1	0.71	0.49	72,72,72,72	0
58	MG	2A	3628	1/1	0.71	0.27	84,84,84,84	0
58	MG	2A	3284	1/1	0.71	0.27	68,68,68,68	0
58	MG	2A	3366	1/1	0.71	0.16	73,73,73,73	0
58	MG	2E	302	1/1	0.71	0.19	71,71,71,71	0
58	MG	1A	3656	1/1	0.72	0.24	59,59,59,59	0
58	MG	1A	3975	1/1	0.72	0.33	73,73,73,73	0
58	MG	1w	101	1/1	0.72	0.32	82,82,82,82	0
58	MG	2A	3274	1/1	0.72	0.30	81,81,81,81	0
58	MG	1A	3926	1/1	0.72	0.20	73,73,73,73	0
58	MG	2W	201	1/1	0.72	0.26	74,74,74,74	0
58	MG	2A	3595	1/1	0.72	0.26	54,54,54,54	0
58	MG	2A	3606	1/1	0.73	0.24	80,80,80,80	0
58	MG	1A	3829	1/1	0.73	0.23	40,40,40,40	0
58	MG	2A	3261	1/1	0.73	0.34	76,76,76,76	0
58	MG	1a	1795	1/1	0.73	0.17	88,88,88,88	0
58	MG	1A	3847	1/1	0.73	0.23	62,62,62,62	0
58	MG	1A	4092	1/1	0.73	0.27	81,81,81,81	0
58	MG	1A	3746	1/1	0.73	0.22	74,74,74,74	0
58	MG	2A	3089	1/1	0.74	0.29	85,85,85,85	0
58	MG	2A	3659	1/1	0.74	0.21	53,53,53,53	0
58	MG	2a	1721	1/1	0.74	0.43	80,80,80,80	0
58	MG	1A	3155	1/1	0.74	0.42	74,74,74,74	0
58	MG	1O	206	1/1	0.74	0.35	76,76,76,76	0
58	MG	2U	202	1/1	0.74	0.12	83,83,83,83	0
58	MG	1A	3663	1/1	0.74	0.36	67,67,67,67	0
58	MG	2A	3634	1/1	0.74	0.21	82,82,82,82	0
58	MG	2A	3308	1/1	0.75	0.41	79,79,79,79	0
58	MG	2A	3080	1/1	0.75	0.28	90,90,90,90	0
58	MG	2A	3392	1/1	0.75	0.22	74,74,74,74	0
58	MG	1A	3972	1/1	0.75	0.16	63,63,63,63	0
58	MG	2A	3219	1/1	0.75	0.34	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3327	1/1	0.75	0.39	77,77,77,77	0
58	MG	2A	3800	1/1	0.75	0.18	70,70,70,70	0
58	MG	2A	3573	1/1	0.75	0.25	85,85,85,85	0
58	MG	2j	201	1/1	0.75	0.20	83,83,83,83	0
58	MG	14	101	1/1	0.75	0.27	87,87,87,87	0
58	MG	2A	3604	1/1	0.75	0.17	83,83,83,83	0
58	MG	1S	203	1/1	0.76	0.13	77,77,77,77	0
58	MG	1w	103	1/1	0.76	0.30	87,87,87,87	0
58	MG	2A	3697	1/1	0.76	0.14	75,75,75,75	0
58	MG	2A	3706	1/1	0.76	0.21	79,79,79,79	0
58	MG	1A	3685	1/1	0.76	0.14	66,66,66,66	0
58	MG	2A	3044	1/1	0.76	0.38	79,79,79,79	0
58	MG	1A	4084	1/1	0.76	0.19	69,69,69,69	0
58	MG	2A	3088	1/1	0.76	0.27	78,78,78,78	0
58	MG	1A	3736	1/1	0.76	0.35	91,91,91,91	0
58	MG	2A	3178	1/1	0.76	0.30	78,78,78,78	0
58	MG	1a	1690	1/1	0.76	0.30	79,79,79,79	0
58	MG	2A	3222	1/1	0.76	0.32	85,85,85,85	0
58	MG	2A	3230	1/1	0.76	0.35	76,76,76,76	0
58	MG	2a	1725	1/1	0.76	0.24	82,82,82,82	0
58	MG	2a	1756	1/1	0.76	0.23	64,64,64,64	0
58	MG	1A	3986	1/1	0.76	0.21	45,45,45,45	0
58	MG	2A	3253	1/1	0.76	0.31	79,79,79,79	0
58	MG	1A	3658	1/1	0.76	0.26	69,69,69,69	0
58	MG	1A	3905	1/1	0.76	0.14	58,58,58,58	0
58	MG	1l	201	1/1	0.76	0.14	81,81,81,81	0
58	MG	2A	3635	1/1	0.76	0.21	67,67,67,67	0
58	MG	1A	3940	1/1	0.77	0.16	43,43,43,43	0
58	MG	1A	4036	1/1	0.77	0.17	58,58,58,58	0
58	MG	2a	1719	1/1	0.77	0.39	82,82,82,82	0
58	MG	2A	3289	1/1	0.77	0.14	85,85,85,85	0
58	MG	1A	3754	1/1	0.77	0.27	69,69,69,69	0
58	MG	1A	3200	1/1	0.77	0.12	71,71,71,71	0
58	MG	2a	1764	1/1	0.77	0.28	78,78,78,78	0
58	MG	2A	3826	1/1	0.77	0.12	75,75,75,75	0
58	MG	2a	1775	1/1	0.77	0.27	67,67,67,67	0
58	MG	2A	3378	1/1	0.77	0.23	78,78,78,78	0
58	MG	1a	1706	1/1	0.77	0.30	79,79,79,79	0
58	MG	2A	3239	1/1	0.77	0.37	88,88,88,88	0
58	MG	2A	3407	1/1	0.77	0.22	73,73,73,73	0
58	MG	2A	3504	1/1	0.77	0.26	77,77,77,77	0
58	MG	2x	106	1/1	0.77	0.43	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1a	1730	1/1	0.78	0.25	78,78,78,78	0
58	MG	2a	1714	1/1	0.78	0.34	69,69,69,69	0
58	MG	1a	1734	1/1	0.78	0.27	76,76,76,76	0
58	MG	1A	3783	1/1	0.78	0.21	71,71,71,71	0
58	MG	2A	3307	1/1	0.78	0.39	80,80,80,80	0
58	MG	2A	3772	1/1	0.78	0.22	65,65,65,65	0
58	MG	2A	3086	1/1	0.78	0.23	82,82,82,82	0
58	MG	2A	3327	1/1	0.78	0.12	74,74,74,74	0
58	MG	1a	1809	1/1	0.78	0.14	82,82,82,82	0
58	MG	10	109	1/1	0.78	0.28	72,72,72,72	0
58	MG	2A	3624	1/1	0.78	0.15	60,60,60,60	0
58	MG	2a	1822	1/1	0.78	0.26	74,74,74,74	0
58	MG	1A	3969	1/1	0.78	0.17	53,53,53,53	0
58	MG	2A	3185	1/1	0.78	0.32	85,85,85,85	0
58	MG	2a	1612	1/1	0.78	0.19	74,74,74,74	0
58	MG	1A	3853	1/1	0.78	0.16	57,57,57,57	0
58	MG	2A	3251	1/1	0.79	0.29	76,76,76,76	0
58	MG	2B	205	1/1	0.79	0.28	72,72,72,72	0
58	MG	1A	4035	1/1	0.79	0.20	66,66,66,66	0
58	MG	1A	3964	1/1	0.79	0.11	72,72,72,72	0
58	MG	2F	302	1/1	0.79	0.20	78,78,78,78	0
58	MG	1A	3993	1/1	0.79	0.14	80,80,80,80	0
58	MG	1A	3532	1/1	0.79	0.29	58,58,58,58	0
58	MG	2A	3582	1/1	0.79	0.19	63,63,63,63	0
58	MG	2A	3266	1/1	0.79	0.24	72,72,72,72	0
58	MG	1A	3539	1/1	0.79	0.14	80,80,80,80	0
58	MG	2a	1678	1/1	0.79	0.24	88,88,88,88	0
58	MG	2A	3115	1/1	0.79	0.24	71,71,71,71	0
58	MG	2A	3171	1/1	0.79	0.21	78,78,78,78	0
58	MG	1a	1601	1/1	0.79	0.16	76,76,76,76	0
58	MG	1a	1624	1/1	0.79	0.31	74,74,74,74	0
58	MG	1a	1664	1/1	0.79	0.28	72,72,72,72	0
58	MG	2A	3325	1/1	0.79	0.13	85,85,85,85	0
58	MG	2A	3636	1/1	0.79	0.25	80,80,80,80	0
58	MG	2a	1768	1/1	0.79	0.27	75,75,75,75	0
58	MG	1A	3024	1/1	0.79	0.27	64,64,64,64	0
58	MG	2a	1772	1/1	0.79	0.21	81,81,81,81	0
58	MG	2A	3229	1/1	0.79	0.38	72,72,72,72	0
58	MG	2A	3665	1/1	0.79	0.21	76,76,76,76	0
58	MG	1F	314	1/1	0.79	0.25	65,65,65,65	0
58	MG	2A	3382	1/1	0.79	0.19	75,75,75,75	0
58	MG	2A	3717	1/1	0.79	0.19	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3771	1/1	0.79	0.33	72,72,72,72	0
58	MG	1a	1699	1/1	0.79	0.23	82,82,82,82	0
58	MG	2A	3022	1/1	0.79	0.22	78,78,78,78	0
58	MG	2B	209	1/1	0.80	0.15	77,77,77,77	0
58	MG	1A	3788	1/1	0.80	0.21	77,77,77,77	0
58	MG	2A	3162	1/1	0.80	0.29	71,71,71,71	0
58	MG	1a	1755	1/1	0.80	0.14	73,73,73,73	0
58	MG	2A	3172	1/1	0.80	0.21	68,68,68,68	0
58	MG	2A	3173	1/1	0.80	0.21	79,79,79,79	0
58	MG	1A	3979	1/1	0.80	0.17	68,68,68,68	0
58	MG	1A	3416	1/1	0.80	0.21	70,70,70,70	0
58	MG	2A	3633	1/1	0.80	0.23	70,70,70,70	0
58	MG	2A	3204	1/1	0.80	0.30	68,68,68,68	0
58	MG	2A	3217	1/1	0.80	0.52	82,82,82,82	0
58	MG	2a	1694	1/1	0.80	0.40	75,75,75,75	0
58	MG	1a	1634	1/1	0.80	0.30	81,81,81,81	0
58	MG	2A	3642	1/1	0.80	0.27	75,75,75,75	0
58	MG	2A	3220	1/1	0.80	0.13	84,84,84,84	0
58	MG	2A	3653	1/1	0.80	0.22	51,51,51,51	0
58	MG	2a	1747	1/1	0.80	0.14	83,83,83,83	0
58	MG	1A	3673	1/1	0.80	0.20	76,76,76,76	0
58	MG	1B	229	1/1	0.80	0.15	79,79,79,79	0
58	MG	1a	1679	1/1	0.80	0.40	81,81,81,81	0
58	MG	1A	3994	1/1	0.80	0.22	70,70,70,70	0
58	MG	1A	3470	1/1	0.80	0.20	70,70,70,70	0
58	MG	2A	3770	1/1	0.80	0.23	96,96,96,96	0
58	MG	2A	3498	1/1	0.80	0.28	73,73,73,73	0
58	MG	2a	1784	1/1	0.80	0.20	80,80,80,80	0
58	MG	2a	1790	1/1	0.80	0.21	88,88,88,88	0
58	MG	1A	4017	1/1	0.80	0.15	64,64,64,64	0
58	MG	2a	1804	1/1	0.80	0.20	79,79,79,79	0
58	MG	1A	3717	1/1	0.80	0.13	26,26,26,26	0
58	MG	2A	3815	1/1	0.80	0.18	77,77,77,77	0
58	MG	1A	3730	1/1	0.80	0.12	74,74,74,74	0
58	MG	2l	204	1/1	0.80	0.21	69,69,69,69	0
58	MG	1A	3483	1/1	0.80	0.26	59,59,59,59	0
58	MG	2B	207	1/1	0.80	0.23	72,72,72,72	0
58	MG	2A	3589	1/1	0.81	0.20	65,65,65,65	0
58	MG	2A	3278	1/1	0.81	0.16	81,81,81,81	0
58	MG	1B	230	1/1	0.81	0.26	83,83,83,83	0
58	MG	2A	3004	1/1	0.81	0.45	81,81,81,81	0
58	MG	1A	3889	1/1	0.81	0.11	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1606	1/1	0.81	0.41	73,73,73,73	0
58	MG	2A	3610	1/1	0.81	0.16	69,69,69,69	0
58	MG	1A	3174	1/1	0.81	0.21	71,71,71,71	0
58	MG	2a	1617	1/1	0.81	0.20	73,73,73,73	0
58	MG	1A	3549	1/1	0.81	0.17	63,63,63,63	0
58	MG	1A	3971	1/1	0.81	0.19	63,63,63,63	0
58	MG	2A	3333	1/1	0.81	0.27	63,63,63,63	0
58	MG	1A	3453	1/1	0.81	0.18	67,67,67,67	0
58	MG	2a	1704	1/1	0.81	0.40	78,78,78,78	0
58	MG	1A	3937	1/1	0.81	0.20	68,68,68,68	0
58	MG	2A	3250	1/1	0.81	0.23	74,74,74,74	0
58	MG	1A	3494	1/1	0.81	0.16	80,80,80,80	0
58	MG	1a	1749	1/1	0.81	0.24	76,76,76,76	0
58	MG	2A	3254	1/1	0.81	0.27	63,63,63,63	0
58	MG	2A	3464	1/1	0.81	0.22	55,55,55,55	0
58	MG	2A	3481	1/1	0.81	0.18	62,62,62,62	0
58	MG	2A	3487	1/1	0.81	0.19	86,86,86,86	0
58	MG	2A	3710	1/1	0.81	0.16	65,65,65,65	0
58	MG	2A	3711	1/1	0.81	0.19	66,66,66,66	0
58	MG	1A	3347	1/1	0.81	0.47	59,59,59,59	0
58	MG	1B	202	1/1	0.81	0.26	59,59,59,59	0
58	MG	1B	207	1/1	0.81	0.15	75,75,75,75	0
58	MG	2a	1789	1/1	0.81	0.23	71,71,71,71	0
58	MG	2A	3520	1/1	0.81	0.26	76,76,76,76	0
58	MG	2A	3525	1/1	0.81	0.26	77,77,77,77	0
58	MG	2A	3813	1/1	0.81	0.10	90,90,90,90	0
58	MG	2A	3546	1/1	0.81	0.18	50,50,50,50	0
58	MG	2a	1824	1/1	0.81	0.14	70,70,70,70	0
58	MG	2a	1832	1/1	0.81	0.19	90,90,90,90	0
58	MG	2A	3553	1/1	0.81	0.33	73,73,73,73	0
58	MG	1a	1657	1/1	0.81	0.28	83,83,83,83	0
58	MG	1A	3781	1/1	0.81	0.17	63,63,63,63	0
58	MG	2B	208	1/1	0.81	0.28	76,76,76,76	0
58	MG	1A	3948	1/1	0.81	0.22	59,59,59,59	0
58	MG	1A	3215	1/1	0.82	0.25	63,63,63,63	0
58	MG	1A	3246	1/1	0.82	0.13	77,77,77,77	0
58	MG	2A	3302	1/1	0.82	0.28	83,83,83,83	0
58	MG	1A	3458	1/1	0.82	0.25	77,77,77,77	0
58	MG	20	101	1/1	0.82	0.52	73,73,73,73	0
58	MG	1A	3064	1/1	0.82	0.17	56,56,56,56	0
58	MG	2A	3313	1/1	0.82	0.19	78,78,78,78	0
58	MG	2A	3320	1/1	0.82	0.27	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3773	1/1	0.82	0.20	59,59,59,59	0
58	MG	2A	3187	1/1	0.82	0.29	76,76,76,76	0
58	MG	1T	203	1/1	0.82	0.31	67,67,67,67	0
58	MG	2a	1679	1/1	0.82	0.18	64,64,64,64	0
58	MG	2A	3337	1/1	0.82	0.24	60,60,60,60	0
58	MG	1a	1757	1/1	0.82	0.24	86,86,86,86	0
58	MG	2a	1703	1/1	0.82	0.31	74,74,74,74	0
58	MG	1U	212	1/1	0.82	0.21	67,67,67,67	0
58	MG	2A	3643	1/1	0.82	0.27	69,69,69,69	0
58	MG	1A	3294	1/1	0.82	0.23	59,59,59,59	0
58	MG	1a	1824	1/1	0.82	0.16	87,87,87,87	0
58	MG	1A	3187	1/1	0.82	0.34	72,72,72,72	0
58	MG	1A	3681	1/1	0.82	0.16	70,70,70,70	0
58	MG	1A	3493	1/1	0.82	0.23	71,71,71,71	0
58	MG	1A	3952	1/1	0.82	0.16	48,48,48,48	0
58	MG	1A	3037	1/1	0.82	0.21	70,70,70,70	0
58	MG	2A	3005	1/1	0.82	0.36	70,70,70,70	0
58	MG	2A	3716	1/1	0.82	0.11	82,82,82,82	0
58	MG	1A	3963	1/1	0.82	0.13	62,62,62,62	0
58	MG	1A	3384	1/1	0.82	0.20	62,62,62,62	0
58	MG	2A	3062	1/1	0.82	0.19	66,66,66,66	0
58	MG	1A	3965	1/1	0.82	0.11	77,77,77,77	0
58	MG	2A	3530	1/1	0.82	0.20	73,73,73,73	0
58	MG	1A	3397	1/1	0.82	0.22	51,51,51,51	0
58	MG	2a	1800	1/1	0.82	0.21	67,67,67,67	0
58	MG	1a	1680	1/1	0.82	0.32	75,75,75,75	0
58	MG	1B	221	1/1	0.82	0.18	69,69,69,69	0
58	MG	2A	3562	1/1	0.82	0.24	76,76,76,76	0
58	MG	1A	3869	1/1	0.82	0.13	66,66,66,66	0
58	MG	2a	1841	1/1	0.82	0.10	87,87,87,87	0
58	MG	1A	3871	1/1	0.82	0.13	38,38,38,38	0
58	MG	2A	3583	1/1	0.82	0.30	83,83,83,83	0
58	MG	2A	3587	1/1	0.82	0.19	80,80,80,80	0
58	MG	2B	216	1/1	0.82	0.19	85,85,85,85	0
58	MG	2D	304	1/1	0.82	0.41	67,67,67,67	0
58	MG	2A	3095	1/1	0.83	0.14	65,65,65,65	0
58	MG	2B	213	1/1	0.83	0.25	76,76,76,76	0
58	MG	2A	3102	1/1	0.83	0.29	74,74,74,74	0
58	MG	1A	3545	1/1	0.83	0.16	61,61,61,61	0
58	MG	2A	3295	1/1	0.83	0.19	59,59,59,59	0
58	MG	2A	3298	1/1	0.83	0.24	71,71,71,71	0
58	MG	2A	3136	1/1	0.83	0.23	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3160	1/1	0.83	0.18	67,67,67,67	0
58	MG	1Y	201	1/1	0.83	0.17	76,76,76,76	0
58	MG	1A	3792	1/1	0.83	0.14	64,64,64,64	0
58	MG	2A	3609	1/1	0.83	0.12	43,43,43,43	0
58	MG	1A	3059	1/1	0.83	0.37	67,67,67,67	0
58	MG	1A	3638	1/1	0.83	0.12	29,29,29,29	0
58	MG	2a	1630	1/1	0.83	0.18	79,79,79,79	0
58	MG	1a	1770	1/1	0.83	0.17	58,58,58,58	0
58	MG	2a	1670	1/1	0.83	0.26	75,75,75,75	0
58	MG	1a	1785	1/1	0.83	0.32	71,71,71,71	0
58	MG	1a	1623	1/1	0.83	0.30	75,75,75,75	0
58	MG	2a	1689	1/1	0.83	0.21	86,86,86,86	0
58	MG	1A	3333	1/1	0.83	0.15	66,66,66,66	0
58	MG	1a	1811	1/1	0.83	0.14	76,76,76,76	0
58	MG	1A	3861	1/1	0.83	0.14	33,33,33,33	0
58	MG	1a	1655	1/1	0.83	0.16	76,76,76,76	0
58	MG	2a	1712	1/1	0.83	0.22	84,84,84,84	0
58	MG	1v	101	1/1	0.83	0.25	80,80,80,80	0
58	MG	2A	3651	1/1	0.83	0.25	90,90,90,90	0
58	MG	2A	3652	1/1	0.83	0.14	76,76,76,76	0
58	MG	2a	1723	1/1	0.83	0.15	72,72,72,72	0
58	MG	1A	3778	1/1	0.83	0.19	63,63,63,63	0
58	MG	2A	3447	1/1	0.83	0.19	69,69,69,69	0
58	MG	1A	3954	1/1	0.83	0.11	49,49,49,49	0
58	MG	2a	1762	1/1	0.83	0.15	66,66,66,66	0
58	MG	1A	3780	1/1	0.83	0.12	47,47,47,47	0
58	MG	2a	1765	1/1	0.83	0.26	68,68,68,68	0
58	MG	2a	1766	1/1	0.83	0.36	71,71,71,71	0
58	MG	1A	3282	1/1	0.83	0.39	62,62,62,62	0
58	MG	2a	1770	1/1	0.83	0.20	77,77,77,77	0
58	MG	2A	3497	1/1	0.83	0.25	77,77,77,77	0
58	MG	1A	3890	1/1	0.83	0.25	74,74,74,74	0
58	MG	2a	1774	1/1	0.83	0.48	83,83,83,83	0
58	MG	2A	3017	1/1	0.83	0.17	60,60,60,60	0
58	MG	2A	3511	1/1	0.83	0.22	77,77,77,77	0
58	MG	2A	3762	1/1	0.83	0.29	76,76,76,76	0
58	MG	1P	206	1/1	0.83	0.22	57,57,57,57	0
58	MG	2A	3030	1/1	0.83	0.24	70,70,70,70	0
58	MG	1a	1693	1/1	0.83	0.27	64,64,64,64	0
58	MG	1a	1696	1/1	0.83	0.21	87,87,87,87	0
58	MG	2A	3807	1/1	0.83	0.24	70,70,70,70	0
58	MG	1A	3179	1/1	0.83	0.17	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3814	1/1	0.83	0.18	69,69,69,69	0
58	MG	1A	3319	1/1	0.83	0.16	68,68,68,68	0
58	MG	2A	3821	1/1	0.83	0.12	71,71,71,71	0
58	MG	2A	3558	1/1	0.83	0.16	71,71,71,71	0
58	MG	2A	3560	1/1	0.83	0.18	58,58,58,58	0
58	MG	1A	4060	1/1	0.83	0.16	64,64,64,64	0
58	MG	2n	101	1/1	0.83	0.18	74,74,74,74	0
58	MG	2v	101	1/1	0.83	0.26	65,65,65,65	0
58	MG	1U	214	1/1	0.83	0.52	81,81,81,81	0
58	MG	2A	3565	1/1	0.83	0.23	75,75,75,75	0
58	MG	2E	306	1/1	0.84	0.28	73,73,73,73	0
58	MG	1A	3984	1/1	0.84	0.14	59,59,59,59	0
58	MG	2F	308	1/1	0.84	0.13	69,69,69,69	0
58	MG	2A	3057	1/1	0.84	0.17	58,58,58,58	0
58	MG	2V	201	1/1	0.84	0.37	54,54,54,54	0
58	MG	2A	3611	1/1	0.84	0.32	70,70,70,70	0
58	MG	2A	3390	1/1	0.84	0.26	79,79,79,79	0
58	MG	25	101	1/1	0.84	0.31	66,66,66,66	0
58	MG	2A	3625	1/1	0.84	0.13	79,79,79,79	0
58	MG	1A	4106	1/1	0.84	0.27	66,66,66,66	0
58	MG	1A	3462	1/1	0.84	0.17	63,63,63,63	0
58	MG	1A	3805	1/1	0.84	0.15	62,62,62,62	0
58	MG	2a	1620	1/1	0.84	0.30	72,72,72,72	0
58	MG	1B	210	1/1	0.84	0.24	64,64,64,64	0
58	MG	2a	1634	1/1	0.84	0.28	74,74,74,74	0
58	MG	2a	1637	1/1	0.84	0.20	75,75,75,75	0
58	MG	2A	3461	1/1	0.84	0.17	72,72,72,72	0
58	MG	1a	1608	1/1	0.84	0.24	74,74,74,74	0
58	MG	1A	3734	1/1	0.84	0.11	56,56,56,56	0
58	MG	2A	3098	1/1	0.84	0.12	76,76,76,76	0
58	MG	1A	4000	1/1	0.84	0.19	40,40,40,40	0
58	MG	1A	4006	1/1	0.84	0.15	50,50,50,50	0
58	MG	1a	1653	1/1	0.84	0.31	71,71,71,71	0
58	MG	2A	3505	1/1	0.84	0.23	69,69,69,69	0
58	MG	2A	3661	1/1	0.84	0.26	71,71,71,71	0
58	MG	2a	1708	1/1	0.84	0.18	80,80,80,80	0
58	MG	2A	3509	1/1	0.84	0.29	69,69,69,69	0
58	MG	2A	3139	1/1	0.84	0.22	78,78,78,78	0
58	MG	2a	1717	1/1	0.84	0.31	70,70,70,70	0
58	MG	1A	3841	1/1	0.84	0.26	82,82,82,82	0
58	MG	2A	3708	1/1	0.84	0.25	80,80,80,80	0
58	MG	2A	3519	1/1	0.84	0.16	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1a	1656	1/1	0.84	0.17	63,63,63,63	0
58	MG	1a	1821	1/1	0.84	0.13	79,79,79,79	0
58	MG	2A	3290	1/1	0.84	0.08	86,86,86,86	0
58	MG	2A	3735	1/1	0.84	0.17	50,50,50,50	0
58	MG	2A	3742	1/1	0.84	0.12	72,72,72,72	0
58	MG	2A	3745	1/1	0.84	0.13	80,80,80,80	0
58	MG	1E	306	1/1	0.84	0.35	57,57,57,57	0
58	MG	1A	3601	1/1	0.84	0.24	59,59,59,59	0
58	MG	2A	3556	1/1	0.84	0.21	65,65,65,65	0
58	MG	1A	3533	1/1	0.84	0.18	68,68,68,68	0
58	MG	2A	3781	1/1	0.84	0.09	83,83,83,83	0
58	MG	2A	3304	1/1	0.84	0.35	67,67,67,67	0
58	MG	2A	3805	1/1	0.84	0.17	59,59,59,59	0
58	MG	1A	3643	1/1	0.84	0.12	50,50,50,50	0
58	MG	1A	3356	1/1	0.84	0.30	77,77,77,77	0
58	MG	2A	3191	1/1	0.84	0.28	73,73,73,73	0
58	MG	2A	3566	1/1	0.84	0.17	75,75,75,75	0
58	MG	2A	3819	1/1	0.84	0.23	73,73,73,73	0
58	MG	1R	203	1/1	0.84	0.27	44,44,44,44	0
58	MG	2A	3825	1/1	0.84	0.14	63,63,63,63	0
58	MG	2A	3576	1/1	0.84	0.19	63,63,63,63	0
58	MG	2A	3321	1/1	0.84	0.18	77,77,77,77	0
58	MG	1A	3786	1/1	0.84	0.27	66,66,66,66	0
58	MG	2a	1837	1/1	0.84	0.22	78,78,78,78	0
58	MG	1A	4053	1/1	0.84	0.20	71,71,71,71	0
58	MG	1A	3430	1/1	0.84	0.18	74,74,74,74	0
58	MG	2A	3591	1/1	0.84	0.24	64,64,64,64	0
58	MG	2A	3336	1/1	0.84	0.26	47,47,47,47	0
58	MG	1a	1703	1/1	0.84	0.40	69,69,69,69	0
58	MG	2q	201	1/1	0.84	0.22	79,79,79,79	0
58	MG	2B	219	1/1	0.84	0.22	78,78,78,78	0
58	MG	2A	3353	1/1	0.84	0.33	70,70,70,70	0
58	MG	2w	102	1/1	0.84	0.19	86,86,86,86	0
58	MG	2x	105	1/1	0.84	0.26	86,86,86,86	0
58	MG	1A	3980	1/1	0.84	0.16	53,53,53,53	0
58	MG	1x	103	1/1	0.85	0.12	60,60,60,60	0
58	MG	1Q	205	1/1	0.85	0.20	63,63,63,63	0
58	MG	1A	4029	1/1	0.85	0.17	68,68,68,68	0
58	MG	1A	4034	1/1	0.85	0.26	79,79,79,79	0
58	MG	20	102	1/1	0.85	0.29	74,74,74,74	0
58	MG	2A	3223	1/1	0.85	0.31	72,72,72,72	0
58	MG	1A	3251	1/1	0.85	0.13	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3640	1/1	0.85	0.13	64,64,64,64	0
58	MG	1A	3702	1/1	0.85	0.24	72,72,72,72	0
58	MG	2A	3235	1/1	0.85	0.19	83,83,83,83	0
58	MG	1A	3046	1/1	0.85	0.21	55,55,55,55	0
58	MG	2a	1626	1/1	0.85	0.18	66,66,66,66	0
58	MG	2A	3242	1/1	0.85	0.33	78,78,78,78	0
58	MG	2A	3246	1/1	0.85	0.16	63,63,63,63	0
58	MG	2A	3486	1/1	0.85	0.13	68,68,68,68	0
58	MG	2A	3038	1/1	0.85	0.23	75,75,75,75	0
58	MG	1a	1722	1/1	0.85	0.35	79,79,79,79	0
58	MG	2a	1671	1/1	0.85	0.22	78,78,78,78	0
58	MG	2a	1674	1/1	0.85	0.33	74,74,74,74	0
58	MG	2A	3047	1/1	0.85	0.19	68,68,68,68	0
58	MG	2A	3678	1/1	0.85	0.19	67,67,67,67	0
58	MG	2A	3686	1/1	0.85	0.21	83,83,83,83	0
58	MG	2A	3691	1/1	0.85	0.14	84,84,84,84	0
58	MG	2a	1692	1/1	0.85	0.28	73,73,73,73	0
58	MG	2A	3055	1/1	0.85	0.37	74,74,74,74	0
58	MG	1A	4055	1/1	0.85	0.19	73,73,73,73	0
58	MG	1a	1728	1/1	0.85	0.20	78,78,78,78	0
58	MG	2A	3071	1/1	0.85	0.19	64,64,64,64	0
58	MG	2a	1711	1/1	0.85	0.27	72,72,72,72	0
58	MG	1A	3617	1/1	0.85	0.11	42,42,42,42	0
58	MG	1A	3281	1/1	0.85	0.13	49,49,49,49	0
58	MG	2A	3273	1/1	0.85	0.16	71,71,71,71	0
58	MG	2a	1718	1/1	0.85	0.38	70,70,70,70	0
58	MG	1A	3489	1/1	0.85	0.31	65,65,65,65	0
58	MG	18	104	1/1	0.85	0.21	73,73,73,73	0
58	MG	1a	1754	1/1	0.85	0.18	66,66,66,66	0
58	MG	2A	3552	1/1	0.85	0.20	67,67,67,67	0
58	MG	2A	3766	1/1	0.85	0.13	61,61,61,61	0
58	MG	1A	3906	1/1	0.85	0.13	39,39,39,39	0
58	MG	1A	3916	1/1	0.85	0.14	79,79,79,79	0
58	MG	1A	3197	1/1	0.85	0.18	58,58,58,58	0
58	MG	1A	3799	1/1	0.85	0.12	75,75,75,75	0
58	MG	1A	3172	1/1	0.85	0.31	62,62,62,62	0
58	MG	2A	3146	1/1	0.85	0.20	69,69,69,69	0
58	MG	1A	3311	1/1	0.85	0.21	59,59,59,59	0
58	MG	2A	3812	1/1	0.85	0.19	74,74,74,74	0
58	MG	1A	3092	1/1	0.85	0.29	71,71,71,71	0
58	MG	1A	3237	1/1	0.85	0.17	69,69,69,69	0
58	MG	1A	3852	1/1	0.85	0.23	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1776	1/1	0.85	0.27	79,79,79,79	0
58	MG	2A	3816	1/1	0.85	0.15	77,77,77,77	0
58	MG	1A	3776	1/1	0.85	0.20	66,66,66,66	0
58	MG	2a	1787	1/1	0.85	0.16	75,75,75,75	0
58	MG	1A	4019	1/1	0.85	0.12	30,30,30,30	0
58	MG	1A	3135	1/1	0.85	0.21	52,52,52,52	0
58	MG	2A	3588	1/1	0.85	0.22	60,60,60,60	0
58	MG	2B	201	1/1	0.85	0.43	80,80,80,80	0
58	MG	2B	202	1/1	0.85	0.24	81,81,81,81	0
58	MG	1A	3862	1/1	0.85	0.16	42,42,42,42	0
58	MG	1w	105	1/1	0.85	0.16	80,80,80,80	0
58	MG	2A	3198	1/1	0.85	0.20	76,76,76,76	0
58	MG	2A	3600	1/1	0.85	0.23	62,62,62,62	0
58	MG	2A	3601	1/1	0.85	0.19	63,63,63,63	0
58	MG	2B	211	1/1	0.85	0.27	76,76,76,76	0
58	MG	2B	212	1/1	0.85	0.12	78,78,78,78	0
58	MG	2A	3602	1/1	0.85	0.30	78,78,78,78	0
58	MG	1w	108	1/1	0.85	0.17	87,87,87,87	0
58	MG	2A	3349	1/1	0.85	0.26	63,63,63,63	0
58	MG	2A	3206	1/1	0.85	0.32	69,69,69,69	0
58	MG	2A	3356	1/1	0.85	0.26	71,71,71,71	0
58	MG	2A	3358	1/1	0.85	0.35	67,67,67,67	0
58	MG	2A	3360	1/1	0.85	0.41	84,84,84,84	0
58	MG	2A	3365	1/1	0.85	0.27	75,75,75,75	0
58	MG	1a	1668	1/1	0.86	0.31	68,68,68,68	0
58	MG	1a	1673	1/1	0.86	0.19	71,71,71,71	0
58	MG	1A	3373	1/1	0.86	0.22	63,63,63,63	0
58	MG	2A	3212	1/1	0.86	0.19	61,61,61,61	0
58	MG	1x	104	1/1	0.86	0.22	73,73,73,73	0
58	MG	2A	3387	1/1	0.86	0.14	67,67,67,67	0
58	MG	1A	3381	1/1	0.86	0.31	72,72,72,72	0
58	MG	2a	1618	1/1	0.86	0.37	75,75,75,75	0
58	MG	1A	3342	1/1	0.86	0.20	61,61,61,61	0
58	MG	2a	1622	1/1	0.86	0.30	66,66,66,66	0
58	MG	1A	3542	1/1	0.86	0.17	69,69,69,69	0
58	MG	2A	3401	1/1	0.86	0.40	72,72,72,72	0
58	MG	1A	3469	1/1	0.86	0.30	73,73,73,73	0
58	MG	2A	3412	1/1	0.86	0.15	78,78,78,78	0
58	MG	2a	1642	1/1	0.86	0.29	75,75,75,75	0
58	MG	2a	1649	1/1	0.86	0.27	67,67,67,67	0
58	MG	2A	3441	1/1	0.86	0.38	69,69,69,69	0
58	MG	2a	1666	1/1	0.86	0.44	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1668	1/1	0.86	0.26	67,67,67,67	0
58	MG	1A	3686	1/1	0.86	0.15	55,55,55,55	0
58	MG	2A	3454	1/1	0.86	0.22	65,65,65,65	0
58	MG	2A	3676	1/1	0.86	0.15	63,63,63,63	0
58	MG	2A	3023	1/1	0.86	0.24	68,68,68,68	0
58	MG	2A	3028	1/1	0.86	0.14	72,72,72,72	0
58	MG	1A	3696	1/1	0.86	0.12	43,43,43,43	0
58	MG	1T	204	1/1	0.86	0.13	65,65,65,65	0
58	MG	1A	3888	1/1	0.86	0.11	34,34,34,34	0
58	MG	1a	1723	1/1	0.86	0.15	71,71,71,71	0
58	MG	1A	3345	1/1	0.86	0.19	58,58,58,58	0
58	MG	1A	3558	1/1	0.86	0.13	39,39,39,39	0
58	MG	2A	3252	1/1	0.86	0.19	74,74,74,74	0
58	MG	2a	1710	1/1	0.86	0.32	73,73,73,73	0
58	MG	1A	3894	1/1	0.86	0.11	74,74,74,74	0
58	MG	2A	3510	1/1	0.86	0.13	72,72,72,72	0
58	MG	1A	3283	1/1	0.86	0.20	68,68,68,68	0
58	MG	1A	3791	1/1	0.86	0.16	66,66,66,66	0
58	MG	2A	3082	1/1	0.86	0.27	63,63,63,63	0
58	MG	1a	1746	1/1	0.86	0.14	61,61,61,61	0
58	MG	1A	3422	1/1	0.86	0.23	69,69,69,69	0
58	MG	2A	3272	1/1	0.86	0.27	78,78,78,78	0
58	MG	1A	3912	1/1	0.86	0.21	64,64,64,64	0
58	MG	2a	1746	1/1	0.86	0.19	75,75,75,75	0
58	MG	2A	3548	1/1	0.86	0.16	62,62,62,62	0
58	MG	2A	3550	1/1	0.86	0.19	75,75,75,75	0
58	MG	2a	1759	1/1	0.86	0.21	73,73,73,73	0
58	MG	1A	3199	1/1	0.86	0.14	61,61,61,61	0
58	MG	2A	3276	1/1	0.86	0.26	76,76,76,76	0
58	MG	1a	1621	1/1	0.86	0.17	54,54,54,54	0
58	MG	1a	1767	1/1	0.86	0.13	58,58,58,58	0
58	MG	2A	3108	1/1	0.86	0.27	79,79,79,79	0
58	MG	2A	3288	1/1	0.86	0.14	72,72,72,72	0
58	MG	1A	3920	1/1	0.86	0.12	79,79,79,79	0
58	MG	1A	3924	1/1	0.86	0.12	73,73,73,73	0
58	MG	1a	1625	1/1	0.86	0.17	69,69,69,69	0
58	MG	2A	3823	1/1	0.86	0.15	66,66,66,66	0
58	MG	1A	3434	1/1	0.86	0.29	71,71,71,71	0
58	MG	2A	3575	1/1	0.86	0.20	58,58,58,58	0
58	MG	2A	3149	1/1	0.86	0.19	60,60,60,60	0
58	MG	2a	1786	1/1	0.86	0.27	71,71,71,71	0
58	MG	2A	3303	1/1	0.86	0.24	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3156	1/1	0.86	0.30	76,76,76,76	0
58	MG	2A	3157	1/1	0.86	0.21	78,78,78,78	0
58	MG	2a	1794	1/1	0.86	0.26	72,72,72,72	0
58	MG	2a	1797	1/1	0.86	0.13	78,78,78,78	0
58	MG	1a	1638	1/1	0.86	0.25	65,65,65,65	0
58	MG	1a	1812	1/1	0.86	0.27	90,90,90,90	0
58	MG	1A	3933	1/1	0.86	0.10	38,38,38,38	0
58	MG	2a	1817	1/1	0.86	0.13	59,59,59,59	0
58	MG	2A	3593	1/1	0.86	0.15	66,66,66,66	0
58	MG	1A	4003	1/1	0.86	0.11	39,39,39,39	0
58	MG	1D	310	1/1	0.86	0.21	49,49,49,49	0
58	MG	2a	1835	1/1	0.86	0.17	69,69,69,69	0
58	MG	2A	3176	1/1	0.86	0.30	81,81,81,81	0
58	MG	2A	3177	1/1	0.86	0.21	73,73,73,73	0
58	MG	2B	220	1/1	0.86	0.13	74,74,74,74	0
58	MG	1A	3446	1/1	0.86	0.16	64,64,64,64	0
58	MG	2A	3183	1/1	0.86	0.14	64,64,64,64	0
58	MG	2E	305	1/1	0.86	0.20	76,76,76,76	0
58	MG	2A	3347	1/1	0.86	0.38	77,77,77,77	0
58	MG	1A	3529	1/1	0.86	0.23	66,66,66,66	0
58	MG	2A	3351	1/1	0.86	0.33	63,63,63,63	0
58	MG	1w	102	1/1	0.86	0.18	69,69,69,69	0
58	MG	2w	103	1/1	0.86	0.09	98,98,98,98	0
58	MG	2x	101	1/1	0.86	0.17	76,76,76,76	0
58	MG	2x	102	1/1	0.86	0.24	49,49,49,49	0
58	MG	2x	103	1/1	0.86	0.50	77,77,77,77	0
58	MG	1E	311	1/1	0.86	0.23	49,49,49,49	0
58	MG	2A	3197	1/1	0.86	0.21	58,58,58,58	0
58	MG	2A	3301	1/1	0.87	0.23	66,66,66,66	0
58	MG	10	110	1/1	0.87	0.21	70,70,70,70	0
58	MG	10	112	1/1	0.87	0.14	78,78,78,78	0
58	MG	11	105	1/1	0.87	0.14	59,59,59,59	0
58	MG	2A	3305	1/1	0.87	0.13	76,76,76,76	0
58	MG	2A	3306	1/1	0.87	0.29	62,62,62,62	0
58	MG	1a	1760	1/1	0.87	0.11	83,83,83,83	0
58	MG	2a	1602	1/1	0.87	0.12	77,77,77,77	0
58	MG	2A	3142	1/1	0.87	0.28	63,63,63,63	0
58	MG	2a	1607	1/1	0.87	0.19	75,75,75,75	0
58	MG	1A	3960	1/1	0.87	0.11	66,66,66,66	0
58	MG	2A	3316	1/1	0.87	0.28	78,78,78,78	0
58	MG	1A	3480	1/1	0.87	0.18	87,87,87,87	0
58	MG	1A	4072	1/1	0.87	0.18	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3414	1/1	0.87	0.17	61,61,61,61	0
58	MG	1a	1802	1/1	0.87	0.13	70,70,70,70	0
58	MG	1A	3296	1/1	0.87	0.40	67,67,67,67	0
58	MG	2a	1627	1/1	0.87	0.19	72,72,72,72	0
58	MG	1a	1810	1/1	0.87	0.18	73,73,73,73	0
58	MG	1A	4098	1/1	0.87	0.15	64,64,64,64	0
58	MG	1A	3967	1/1	0.87	0.14	87,87,87,87	0
58	MG	1a	1818	1/1	0.87	0.14	74,74,74,74	0
58	MG	1A	4107	1/1	0.87	0.21	53,53,53,53	0
58	MG	2a	1650	1/1	0.87	0.19	70,70,70,70	0
58	MG	2a	1656	1/1	0.87	0.16	68,68,68,68	0
58	MG	2A	3637	1/1	0.87	0.17	77,77,77,77	0
58	MG	1A	3610	1/1	0.87	0.12	52,52,52,52	0
58	MG	2A	3181	1/1	0.87	0.14	70,70,70,70	0
58	MG	2a	1669	1/1	0.87	0.25	66,66,66,66	0
58	MG	1b	301	1/1	0.87	0.21	78,78,78,78	0
58	MG	1a	1636	1/1	0.87	0.19	76,76,76,76	0
58	MG	1t	201	1/1	0.87	0.21	63,63,63,63	0
58	MG	2a	1676	1/1	0.87	0.18	63,63,63,63	0
58	MG	1A	3895	1/1	0.87	0.12	70,70,70,70	0
58	MG	2A	3194	1/1	0.87	0.12	67,67,67,67	0
58	MG	2a	1686	1/1	0.87	0.20	75,75,75,75	0
58	MG	1a	1650	1/1	0.87	0.16	71,71,71,71	0
58	MG	1A	3897	1/1	0.87	0.10	79,79,79,79	0
58	MG	1B	214	1/1	0.87	0.14	74,74,74,74	0
58	MG	1A	3488	1/1	0.87	0.24	68,68,68,68	0
58	MG	2a	1695	1/1	0.87	0.15	76,76,76,76	0
58	MG	2a	1700	1/1	0.87	0.11	66,66,66,66	0
58	MG	1A	3301	1/1	0.87	0.38	73,73,73,73	0
58	MG	1a	1659	1/1	0.87	0.14	66,66,66,66	0
58	MG	2a	1707	1/1	0.87	0.34	68,68,68,68	0
58	MG	1A	3743	1/1	0.87	0.11	27,27,27,27	0
58	MG	1x	106	1/1	0.87	0.20	72,72,72,72	0
58	MG	2A	3698	1/1	0.87	0.14	64,64,64,64	0
58	MG	2A	3421	1/1	0.87	0.26	65,65,65,65	0
58	MG	2A	3427	1/1	0.87	0.17	83,83,83,83	0
58	MG	1A	3907	1/1	0.87	0.11	61,61,61,61	0
58	MG	2A	3443	1/1	0.87	0.12	59,59,59,59	0
58	MG	1A	3803	1/1	0.87	0.19	62,62,62,62	0
58	MG	2A	3226	1/1	0.87	0.28	63,63,63,63	0
58	MG	2A	3719	1/1	0.87	0.14	54,54,54,54	0
58	MG	1a	1670	1/1	0.87	0.24	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1733	1/1	0.87	0.09	92,92,92,92	0
58	MG	2A	3007	1/1	0.87	0.17	56,56,56,56	0
58	MG	2A	3232	1/1	0.87	0.17	66,66,66,66	0
58	MG	2a	1754	1/1	0.87	0.35	79,79,79,79	0
58	MG	2A	3750	1/1	0.87	0.35	74,74,74,74	0
58	MG	1A	3087	1/1	0.87	0.17	77,77,77,77	0
58	MG	2A	3765	1/1	0.87	0.21	76,76,76,76	0
58	MG	2A	3236	1/1	0.87	0.25	81,81,81,81	0
58	MG	2A	3769	1/1	0.87	0.21	58,58,58,58	0
58	MG	2A	3489	1/1	0.87	0.16	65,65,65,65	0
58	MG	2A	3237	1/1	0.87	0.14	71,71,71,71	0
58	MG	1A	3813	1/1	0.87	0.11	47,47,47,47	0
58	MG	2A	3501	1/1	0.87	0.16	80,80,80,80	0
58	MG	2A	3785	1/1	0.87	0.15	58,58,58,58	0
58	MG	1A	3006	1/1	0.87	0.28	67,67,67,67	0
58	MG	1F	312	1/1	0.87	0.21	42,42,42,42	0
58	MG	1A	3506	1/1	0.87	0.20	63,63,63,63	0
58	MG	2a	1778	1/1	0.87	0.26	62,62,62,62	0
58	MG	2A	3808	1/1	0.87	0.18	87,87,87,87	0
58	MG	2A	3810	1/1	0.87	0.14	58,58,58,58	0
58	MG	1A	3929	1/1	0.87	0.12	42,42,42,42	0
58	MG	1A	3846	1/1	0.87	0.12	57,57,57,57	0
58	MG	1A	3757	1/1	0.87	0.13	68,68,68,68	0
58	MG	2A	3516	1/1	0.87	0.14	72,72,72,72	0
58	MG	2A	3048	1/1	0.87	0.19	72,72,72,72	0
58	MG	1A	3848	1/1	0.87	0.25	65,65,65,65	0
58	MG	2A	3524	1/1	0.87	0.17	57,57,57,57	0
58	MG	1a	1713	1/1	0.87	0.19	77,77,77,77	0
58	MG	1A	3942	1/1	0.87	0.31	33,33,33,33	0
58	MG	1T	202	1/1	0.87	0.26	72,72,72,72	0
58	MG	2A	3827	1/1	0.87	0.20	70,70,70,70	0
58	MG	1A	3361	1/1	0.87	0.15	65,65,65,65	0
58	MG	2A	3271	1/1	0.87	0.19	66,66,66,66	0
58	MG	1A	3058	1/1	0.87	0.16	60,60,60,60	0
58	MG	2a	1836	1/1	0.87	0.17	81,81,81,81	0
58	MG	1A	3086	1/1	0.87	0.19	60,60,60,60	0
58	MG	1A	3334	1/1	0.87	0.22	65,65,65,65	0
58	MG	1A	3385	1/1	0.87	0.29	47,47,47,47	0
58	MG	2A	3090	1/1	0.87	0.32	72,72,72,72	0
58	MG	2A	3092	1/1	0.87	0.36	67,67,67,67	0
58	MG	2A	3280	1/1	0.87	0.19	69,69,69,69	0
58	MG	2A	3281	1/1	0.87	0.16	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3094	1/1	0.87	0.09	82,82,82,82	0
58	MG	2A	3286	1/1	0.87	0.18	73,73,73,73	0
58	MG	1a	1740	1/1	0.87	0.19	85,85,85,85	0
58	MG	1A	4044	1/1	0.87	0.17	57,57,57,57	0
58	MG	2E	301	1/1	0.87	0.20	68,68,68,68	0
58	MG	2A	3101	1/1	0.87	0.25	61,61,61,61	0
58	MG	1A	3339	1/1	0.87	0.21	57,57,57,57	0
58	MG	2A	3104	1/1	0.87	0.28	63,63,63,63	0
58	MG	2A	3299	1/1	0.87	0.15	72,72,72,72	0
58	MG	1A	3481	1/1	0.88	0.14	62,62,62,62	0
58	MG	1a	1631	1/1	0.88	0.22	79,79,79,79	0
58	MG	1A	3254	1/1	0.88	0.17	65,65,65,65	0
58	MG	2B	215	1/1	0.88	0.13	77,77,77,77	0
58	MG	1A	3486	1/1	0.88	0.24	49,49,49,49	0
58	MG	1a	1637	1/1	0.88	0.27	59,59,59,59	0
58	MG	2A	3521	1/1	0.88	0.14	61,61,61,61	0
58	MG	1x	110	1/1	0.88	0.29	72,72,72,72	0
58	MG	1A	3794	1/1	0.88	0.12	62,62,62,62	0
58	MG	1a	1639	1/1	0.88	0.18	70,70,70,70	0
58	MG	1a	1640	1/1	0.88	0.28	63,63,63,63	0
58	MG	1a	1643	1/1	0.88	0.17	67,67,67,67	0
58	MG	1A	3667	1/1	0.88	0.15	56,56,56,56	0
58	MG	2A	3551	1/1	0.88	0.20	66,66,66,66	0
58	MG	1A	4100	1/1	0.88	0.14	52,52,52,52	0
58	MG	1A	3209	1/1	0.88	0.13	57,57,57,57	0
58	MG	1A	3409	1/1	0.88	0.22	57,57,57,57	0
58	MG	1A	4109	1/1	0.88	0.14	71,71,71,71	0
58	MG	1A	3674	1/1	0.88	0.18	68,68,68,68	0
58	MG	1A	3816	1/1	0.88	0.20	39,39,39,39	0
58	MG	2A	3267	1/1	0.88	0.33	60,60,60,60	0
58	MG	2a	1603	1/1	0.88	0.27	68,68,68,68	0
58	MG	2a	1604	1/1	0.88	0.30	75,75,75,75	0
58	MG	1A	3825	1/1	0.88	0.24	72,72,72,72	0
58	MG	2A	3051	1/1	0.88	0.20	59,59,59,59	0
58	MG	2A	3571	1/1	0.88	0.17	65,65,65,65	0
58	MG	2A	3052	1/1	0.88	0.12	51,51,51,51	0
58	MG	2a	1614	1/1	0.88	0.27	70,70,70,70	0
58	MG	2a	1616	1/1	0.88	0.29	75,75,75,75	0
58	MG	1A	3277	1/1	0.88	0.11	62,62,62,62	0
58	MG	1A	3835	1/1	0.88	0.11	54,54,54,54	0
58	MG	1a	1672	1/1	0.88	0.23	74,74,74,74	0
58	MG	2A	3063	1/1	0.88	0.21	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1623	1/1	0.88	0.23	67,67,67,67	0
58	MG	2a	1624	1/1	0.88	0.30	76,76,76,76	0
58	MG	1A	3022	1/1	0.88	0.29	69,69,69,69	0
58	MG	2A	3077	1/1	0.88	0.19	73,73,73,73	0
58	MG	2A	3079	1/1	0.88	0.15	72,72,72,72	0
58	MG	2a	1632	1/1	0.88	0.25	79,79,79,79	0
58	MG	1A	3025	1/1	0.88	0.30	77,77,77,77	0
58	MG	1A	3687	1/1	0.88	0.12	64,64,64,64	0
58	MG	2a	1641	1/1	0.88	0.24	74,74,74,74	0
58	MG	1B	236	1/1	0.88	0.11	57,57,57,57	0
58	MG	1A	3695	1/1	0.88	0.18	47,47,47,47	0
58	MG	2A	3294	1/1	0.88	0.17	75,75,75,75	0
58	MG	1A	3497	1/1	0.88	0.22	62,62,62,62	0
58	MG	2a	1663	1/1	0.88	0.18	76,76,76,76	0
58	MG	1A	3425	1/1	0.88	0.23	53,53,53,53	0
58	MG	1A	3427	1/1	0.88	0.18	71,71,71,71	0
58	MG	2a	1667	1/1	0.88	0.24	64,64,64,64	0
58	MG	1a	1705	1/1	0.88	0.27	69,69,69,69	0
58	MG	1F	311	1/1	0.88	0.13	65,65,65,65	0
58	MG	1A	3242	1/1	0.88	0.13	61,61,61,61	0
58	MG	2A	3099	1/1	0.88	0.26	69,69,69,69	0
58	MG	2A	3621	1/1	0.88	0.18	66,66,66,66	0
58	MG	1A	3130	1/1	0.88	0.18	56,56,56,56	0
58	MG	2a	1677	1/1	0.88	0.22	80,80,80,80	0
58	MG	1I	201	1/1	0.88	0.11	67,67,67,67	0
58	MG	1A	3295	1/1	0.88	0.14	60,60,60,60	0
58	MG	2A	3631	1/1	0.88	0.15	65,65,65,65	0
58	MG	1a	1725	1/1	0.88	0.19	58,58,58,58	0
58	MG	2A	3312	1/1	0.88	0.26	79,79,79,79	0
58	MG	2A	3113	1/1	0.88	0.11	64,64,64,64	0
58	MG	2a	1693	1/1	0.88	0.40	74,74,74,74	0
58	MG	2A	3315	1/1	0.88	0.20	81,81,81,81	0
58	MG	1P	205	1/1	0.88	0.19	53,53,53,53	0
58	MG	2A	3128	1/1	0.88	0.16	52,52,52,52	0
58	MG	1A	3738	1/1	0.88	0.14	53,53,53,53	0
58	MG	2A	3322	1/1	0.88	0.24	77,77,77,77	0
58	MG	2a	1706	1/1	0.88	0.49	81,81,81,81	0
58	MG	2A	3646	1/1	0.88	0.14	64,64,64,64	0
58	MG	2A	3323	1/1	0.88	0.18	79,79,79,79	0
58	MG	1A	3248	1/1	0.88	0.10	45,45,45,45	0
58	MG	2A	3140	1/1	0.88	0.21	70,70,70,70	0
58	MG	2A	3328	1/1	0.88	0.14	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3331	1/1	0.88	0.11	72,72,72,72	0
58	MG	1A	3744	1/1	0.88	0.12	48,48,48,48	0
58	MG	2A	3335	1/1	0.88	0.29	63,63,63,63	0
58	MG	2A	3674	1/1	0.88	0.11	71,71,71,71	0
58	MG	2A	3675	1/1	0.88	0.18	76,76,76,76	0
58	MG	2a	1722	1/1	0.88	0.15	69,69,69,69	0
58	MG	1A	3297	1/1	0.88	0.27	65,65,65,65	0
58	MG	2a	1724	1/1	0.88	0.17	76,76,76,76	0
58	MG	1A	3460	1/1	0.88	0.22	84,84,84,84	0
58	MG	2A	3343	1/1	0.88	0.18	70,70,70,70	0
58	MG	2A	3150	1/1	0.88	0.17	76,76,76,76	0
58	MG	2A	3154	1/1	0.88	0.10	69,69,69,69	0
58	MG	1A	3027	1/1	0.88	0.18	42,42,42,42	0
58	MG	2A	3702	1/1	0.88	0.11	65,65,65,65	0
58	MG	1A	3587	1/1	0.88	0.22	56,56,56,56	0
58	MG	1A	4014	1/1	0.88	0.17	58,58,58,58	0
58	MG	1A	3904	1/1	0.88	0.10	38,38,38,38	0
58	MG	1V	208	1/1	0.88	0.14	55,55,55,55	0
58	MG	2A	3714	1/1	0.88	0.17	63,63,63,63	0
58	MG	1W	202	1/1	0.88	0.24	65,65,65,65	0
58	MG	1W	205	1/1	0.88	0.15	32,32,32,32	0
58	MG	2A	3175	1/1	0.88	0.15	66,66,66,66	0
58	MG	2A	3380	1/1	0.88	0.35	74,74,74,74	0
58	MG	1A	3591	1/1	0.88	0.17	76,76,76,76	0
58	MG	1A	4026	1/1	0.88	0.13	59,59,59,59	0
58	MG	2A	3389	1/1	0.88	0.16	62,62,62,62	0
58	MG	2A	3754	1/1	0.88	0.20	46,46,46,46	0
58	MG	1A	3597	1/1	0.88	0.14	59,59,59,59	0
58	MG	1a	1806	1/1	0.88	0.13	74,74,74,74	0
58	MG	1A	3464	1/1	0.88	0.21	63,63,63,63	0
58	MG	1A	3603	1/1	0.88	0.15	60,60,60,60	0
58	MG	1A	3377	1/1	0.88	0.28	71,71,71,71	0
58	MG	2A	3409	1/1	0.88	0.23	69,69,69,69	0
58	MG	2a	1793	1/1	0.88	0.10	65,65,65,65	0
58	MG	1A	3918	1/1	0.88	0.08	81,81,81,81	0
58	MG	2A	3773	1/1	0.88	0.14	71,71,71,71	0
58	MG	2A	3415	1/1	0.88	0.16	50,50,50,50	0
58	MG	15	108	1/1	0.88	0.15	64,64,64,64	0
58	MG	1a	1820	1/1	0.88	0.15	83,83,83,83	0
58	MG	2a	1808	1/1	0.88	0.16	69,69,69,69	0
58	MG	2a	1809	1/1	0.88	0.10	75,75,75,75	0
58	MG	1A	3307	1/1	0.88	0.14	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3200	1/1	0.88	0.14	54,54,54,54	0
58	MG	1A	4040	1/1	0.88	0.12	71,71,71,71	0
58	MG	1a	1602	1/1	0.88	0.13	56,56,56,56	0
58	MG	2A	3207	1/1	0.88	0.18	82,82,82,82	0
58	MG	1e	201	1/1	0.88	0.13	81,81,81,81	0
58	MG	2A	3467	1/1	0.88	0.20	58,58,58,58	0
58	MG	2A	3478	1/1	0.88	0.23	76,76,76,76	0
58	MG	1a	1604	1/1	0.88	0.20	74,74,74,74	0
58	MG	1a	1606	1/1	0.88	0.10	70,70,70,70	0
58	MG	1A	3473	1/1	0.88	0.40	47,47,47,47	0
58	MG	2A	3221	1/1	0.88	0.12	75,75,75,75	0
58	MG	2A	3495	1/1	0.88	0.24	70,70,70,70	0
58	MG	1a	1611	1/1	0.88	0.28	79,79,79,79	0
58	MG	1A	3252	1/1	0.88	0.18	73,73,73,73	0
58	MG	2v	103	1/1	0.88	0.28	72,72,72,72	0
58	MG	1A	3655	1/1	0.88	0.16	45,45,45,45	0
58	MG	2A	3227	1/1	0.88	0.21	68,68,68,68	0
58	MG	2A	3228	1/1	0.88	0.18	67,67,67,67	0
58	MG	2A	3507	1/1	0.88	0.29	79,79,79,79	0
58	MG	2A	3508	1/1	0.88	0.19	72,72,72,72	0
58	MG	1A	4059	1/1	0.88	0.12	58,58,58,58	0
58	MG	1w	106	1/1	0.88	0.16	82,82,82,82	0
58	MG	2A	3598	1/1	0.89	0.13	71,71,71,71	0
58	MG	1A	3264	1/1	0.89	0.18	63,63,63,63	0
58	MG	1x	111	1/1	0.89	0.12	49,49,49,49	0
58	MG	2A	3196	1/1	0.89	0.24	75,75,75,75	0
58	MG	2A	3603	1/1	0.89	0.11	64,64,64,64	0
58	MG	1A	3224	1/1	0.89	0.15	67,67,67,67	0
58	MG	1A	3955	1/1	0.89	0.10	50,50,50,50	0
58	MG	2A	3345	1/1	0.89	0.38	79,79,79,79	0
58	MG	2a	1609	1/1	0.89	0.42	73,73,73,73	0
58	MG	2A	3006	1/1	0.89	0.32	66,66,66,66	0
58	MG	2a	1611	1/1	0.89	0.18	77,77,77,77	0
58	MG	1A	3631	1/1	0.89	0.11	49,49,49,49	0
58	MG	2A	3008	1/1	0.89	0.24	66,66,66,66	0
58	MG	2A	3352	1/1	0.89	0.28	78,78,78,78	0
58	MG	1A	4089	1/1	0.89	0.16	72,72,72,72	0
58	MG	1A	3514	1/1	0.89	0.13	40,40,40,40	0
58	MG	1a	1715	1/1	0.89	0.13	67,67,67,67	0
58	MG	2a	1621	1/1	0.89	0.67	85,85,85,85	0
58	MG	1A	3522	1/1	0.89	0.27	68,68,68,68	0
58	MG	1l	104	1/1	0.89	0.19	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3235	1/1	0.89	0.19	58,58,58,58	0
58	MG	2A	3371	1/1	0.89	0.15	57,57,57,57	0
58	MG	2A	3372	1/1	0.89	0.17	60,60,60,60	0
58	MG	2a	1629	1/1	0.89	0.39	73,73,73,73	0
58	MG	1A	3417	1/1	0.89	0.22	66,66,66,66	0
58	MG	2a	1631	1/1	0.89	0.15	77,77,77,77	0
58	MG	2A	3639	1/1	0.89	0.11	69,69,69,69	0
58	MG	1A	3657	1/1	0.89	0.21	62,62,62,62	0
58	MG	2A	3224	1/1	0.89	0.15	56,56,56,56	0
58	MG	2a	1638	1/1	0.89	0.23	56,56,56,56	0
58	MG	2A	3384	1/1	0.89	0.29	73,73,73,73	0
58	MG	2A	3644	1/1	0.89	0.13	68,68,68,68	0
58	MG	1A	4108	1/1	0.89	0.19	70,70,70,70	0
58	MG	2A	3049	1/1	0.89	0.15	68,68,68,68	0
58	MG	1A	3095	1/1	0.89	0.20	51,51,51,51	0
58	MG	1A	3479	1/1	0.89	0.11	79,79,79,79	0
58	MG	2A	3053	1/1	0.89	0.15	80,80,80,80	0
58	MG	1A	3253	1/1	0.89	0.22	66,66,66,66	0
58	MG	1A	3668	1/1	0.89	0.18	45,45,45,45	0
58	MG	2A	3059	1/1	0.89	0.16	66,66,66,66	0
58	MG	2A	3668	1/1	0.89	0.15	72,72,72,72	0
58	MG	2A	3671	1/1	0.89	0.20	52,52,52,52	0
58	MG	1a	1747	1/1	0.89	0.12	69,69,69,69	0
58	MG	2A	3413	1/1	0.89	0.11	57,57,57,57	0
58	MG	2A	3414	1/1	0.89	0.11	58,58,58,58	0
58	MG	1a	1748	1/1	0.89	0.25	73,73,73,73	0
58	MG	2A	3679	1/1	0.89	0.16	77,77,77,77	0
58	MG	2A	3685	1/1	0.89	0.14	69,69,69,69	0
58	MG	2A	3240	1/1	0.89	0.15	60,60,60,60	0
58	MG	1A	3543	1/1	0.89	0.13	66,66,66,66	0
58	MG	2A	3694	1/1	0.89	0.16	72,72,72,72	0
58	MG	2A	3073	1/1	0.89	0.16	66,66,66,66	0
58	MG	2A	3074	1/1	0.89	0.22	70,70,70,70	0
58	MG	1a	1751	1/1	0.89	0.12	68,68,68,68	0
58	MG	2A	3705	1/1	0.89	0.13	69,69,69,69	0
58	MG	2A	3449	1/1	0.89	0.14	46,46,46,46	0
58	MG	1A	3544	1/1	0.89	0.36	68,68,68,68	0
58	MG	2A	3709	1/1	0.89	0.13	92,92,92,92	0
58	MG	1a	1614	1/1	0.89	0.14	76,76,76,76	0
58	MG	1a	1756	1/1	0.89	0.11	78,78,78,78	0
58	MG	2A	3085	1/1	0.89	0.21	69,69,69,69	0
58	MG	2A	3474	1/1	0.89	0.15	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3368	1/1	0.89	0.26	58,58,58,58	0
58	MG	2A	3480	1/1	0.89	0.22	73,73,73,73	0
58	MG	1A	3898	1/1	0.89	0.10	54,54,54,54	0
58	MG	2A	3739	1/1	0.89	0.15	55,55,55,55	0
58	MG	2A	3485	1/1	0.89	0.15	59,59,59,59	0
58	MG	2A	3743	1/1	0.89	0.10	67,67,67,67	0
58	MG	2A	3262	1/1	0.89	0.22	63,63,63,63	0
58	MG	2A	3749	1/1	0.89	0.15	67,67,67,67	0
58	MG	1A	3428	1/1	0.89	0.16	73,73,73,73	0
58	MG	1a	1769	1/1	0.89	0.12	70,70,70,70	0
58	MG	2A	3755	1/1	0.89	0.12	65,65,65,65	0
58	MG	1A	3550	1/1	0.89	0.24	55,55,55,55	0
58	MG	2A	3764	1/1	0.89	0.15	63,63,63,63	0
58	MG	1A	3790	1/1	0.89	0.16	55,55,55,55	0
58	MG	1a	1789	1/1	0.89	0.15	73,73,73,73	0
58	MG	2A	3767	1/1	0.89	0.21	82,82,82,82	0
58	MG	1A	3325	1/1	0.89	0.18	70,70,70,70	0
58	MG	2a	1760	1/1	0.89	0.18	73,73,73,73	0
58	MG	1A	3565	1/1	0.89	0.09	12,12,12,12	0
58	MG	2a	1763	1/1	0.89	0.21	75,75,75,75	0
58	MG	1A	3569	1/1	0.89	0.13	39,39,39,39	0
58	MG	1F	310	1/1	0.89	0.18	62,62,62,62	0
58	MG	1A	3797	1/1	0.89	0.23	59,59,59,59	0
58	MG	1A	4015	1/1	0.89	0.14	53,53,53,53	0
58	MG	1A	3917	1/1	0.89	0.14	76,76,76,76	0
58	MG	1A	4018	1/1	0.89	0.15	44,44,44,44	0
58	MG	1a	1819	1/1	0.89	0.23	81,81,81,81	0
58	MG	2A	3287	1/1	0.89	0.15	63,63,63,63	0
58	MG	2A	3518	1/1	0.89	0.12	41,41,41,41	0
58	MG	2A	3131	1/1	0.89	0.22	69,69,69,69	0
58	MG	2A	3132	1/1	0.89	0.25	68,68,68,68	0
58	MG	2a	1781	1/1	0.89	0.26	70,70,70,70	0
58	MG	2A	3133	1/1	0.89	0.31	67,67,67,67	0
58	MG	2A	3292	1/1	0.89	0.21	68,68,68,68	0
58	MG	1O	201	1/1	0.89	0.15	72,72,72,72	0
58	MG	2A	3138	1/1	0.89	0.28	63,63,63,63	0
58	MG	2A	3531	1/1	0.89	0.22	67,67,67,67	0
58	MG	2A	3533	1/1	0.89	0.16	65,65,65,65	0
58	MG	1A	3285	1/1	0.89	0.13	63,63,63,63	0
58	MG	1a	1822	1/1	0.89	0.14	77,77,77,77	0
58	MG	1A	3142	1/1	0.89	0.21	44,44,44,44	0
58	MG	1A	3703	1/1	0.89	0.14	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3713	1/1	0.89	0.16	41,41,41,41	0
58	MG	1A	3714	1/1	0.89	0.13	48,48,48,48	0
58	MG	2a	1807	1/1	0.89	0.12	78,78,78,78	0
58	MG	2B	203	1/1	0.89	0.28	69,69,69,69	0
58	MG	1l	202	1/1	0.89	0.15	62,62,62,62	0
58	MG	1n	101	1/1	0.89	0.14	59,59,59,59	0
58	MG	2A	3559	1/1	0.89	0.17	83,83,83,83	0
58	MG	2a	1823	1/1	0.89	0.20	79,79,79,79	0
58	MG	1n	103	1/1	0.89	0.10	85,85,85,85	0
58	MG	1R	205	1/1	0.89	0.16	61,61,61,61	0
58	MG	2A	3309	1/1	0.89	0.24	62,62,62,62	0
58	MG	1A	3822	1/1	0.89	0.16	46,46,46,46	0
58	MG	1A	3259	1/1	0.89	0.34	61,61,61,61	0
58	MG	2A	3570	1/1	0.89	0.13	69,69,69,69	0
58	MG	1A	3337	1/1	0.89	0.12	57,57,57,57	0
58	MG	2B	217	1/1	0.89	0.29	74,74,74,74	0
58	MG	1A	3049	1/1	0.89	0.18	57,57,57,57	0
58	MG	2A	3317	1/1	0.89	0.22	70,70,70,70	0
58	MG	2A	3319	1/1	0.89	0.21	67,67,67,67	0
58	MG	2A	3581	1/1	0.89	0.20	71,71,71,71	0
58	MG	1U	204	1/1	0.89	0.22	42,42,42,42	0
58	MG	1A	3608	1/1	0.89	0.09	30,30,30,30	0
58	MG	2w	101	1/1	0.89	0.12	86,86,86,86	0
58	MG	1a	1681	1/1	0.89	0.21	70,70,70,70	0
58	MG	1x	102	1/1	0.89	0.27	73,73,73,73	0
58	MG	1a	1689	1/1	0.89	0.21	60,60,60,60	0
58	MG	2R	201	1/1	0.89	0.20	70,70,70,70	0
58	MG	1A	3843	1/1	0.89	0.26	40,40,40,40	0
58	MG	1a	1691	1/1	0.89	0.32	69,69,69,69	0
58	MG	1A	3844	1/1	0.89	0.17	54,54,54,54	0
58	MG	2x	108	1/1	0.89	0.18	61,61,61,61	0
58	MG	1B	223	1/1	0.90	0.12	60,60,60,60	0
58	MG	1A	3527	1/1	0.90	0.14	44,44,44,44	0
58	MG	2A	3260	1/1	0.90	0.16	64,64,64,64	0
58	MG	1A	3348	1/1	0.90	0.14	59,59,59,59	0
58	MG	1a	1683	1/1	0.90	0.39	67,67,67,67	0
58	MG	1a	1686	1/1	0.90	0.13	63,63,63,63	0
58	MG	1a	1687	1/1	0.90	0.18	69,69,69,69	0
58	MG	1B	232	1/1	0.90	0.15	73,73,73,73	0
58	MG	1B	233	1/1	0.90	0.12	67,67,67,67	0
58	MG	2A	3534	1/1	0.90	0.17	46,46,46,46	0
58	MG	2A	3540	1/1	0.90	0.23	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3810	1/1	0.90	0.09	47,47,47,47	0
58	MG	2A	3054	1/1	0.90	0.10	74,74,74,74	0
58	MG	1A	3677	1/1	0.90	0.09	49,49,49,49	0
58	MG	2A	3056	1/1	0.90	0.28	71,71,71,71	0
58	MG	1a	1694	1/1	0.90	0.19	67,67,67,67	0
58	MG	1A	3814	1/1	0.90	0.23	51,51,51,51	0
58	MG	1A	3004	1/1	0.90	0.13	37,37,37,37	0
58	MG	2A	3557	1/1	0.90	0.25	78,78,78,78	0
58	MG	1a	1700	1/1	0.90	0.21	63,63,63,63	0
58	MG	1a	1702	1/1	0.90	0.12	83,83,83,83	0
58	MG	1A	3682	1/1	0.90	0.16	70,70,70,70	0
58	MG	1A	3056	1/1	0.90	0.17	54,54,54,54	0
58	MG	1A	3433	1/1	0.90	0.18	57,57,57,57	0
58	MG	1a	1709	1/1	0.90	0.14	75,75,75,75	0
58	MG	2G	201	1/1	0.90	0.18	73,73,73,73	0
58	MG	2O	201	1/1	0.90	0.24	65,65,65,65	0
58	MG	1a	1712	1/1	0.90	0.20	68,68,68,68	0
58	MG	2T	201	1/1	0.90	0.16	69,69,69,69	0
58	MG	2T	202	1/1	0.90	0.19	73,73,73,73	0
58	MG	1A	3362	1/1	0.90	0.36	48,48,48,48	0
58	MG	1A	3363	1/1	0.90	0.17	69,69,69,69	0
58	MG	1a	1716	1/1	0.90	0.11	62,62,62,62	0
58	MG	2A	3574	1/1	0.90	0.13	49,49,49,49	0
58	MG	2A	3296	1/1	0.90	0.16	60,60,60,60	0
58	MG	1a	1720	1/1	0.90	0.29	72,72,72,72	0
58	MG	27	103	1/1	0.90	0.20	74,74,74,74	0
58	MG	2A	3577	1/1	0.90	0.21	74,74,74,74	0
58	MG	2A	3580	1/1	0.90	0.17	74,74,74,74	0
58	MG	1G	202	1/1	0.90	0.17	68,68,68,68	0
58	MG	2A	3300	1/1	0.90	0.18	69,69,69,69	0
58	MG	1A	3977	1/1	0.90	0.08	46,46,46,46	0
58	MG	1A	3451	1/1	0.90	0.19	68,68,68,68	0
58	MG	1A	3699	1/1	0.90	0.12	53,53,53,53	0
58	MG	1A	3163	1/1	0.90	0.11	52,52,52,52	0
58	MG	1A	3372	1/1	0.90	0.11	53,53,53,53	0
58	MG	2A	3592	1/1	0.90	0.12	59,59,59,59	0
58	MG	1A	3704	1/1	0.90	0.17	60,60,60,60	0
58	MG	1a	1733	1/1	0.90	0.13	62,62,62,62	0
58	MG	1A	3705	1/1	0.90	0.11	24,24,24,24	0
58	MG	1a	1737	1/1	0.90	0.30	67,67,67,67	0
58	MG	2A	3105	1/1	0.90	0.20	73,73,73,73	0
58	MG	1A	3995	1/1	0.90	0.08	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3314	1/1	0.90	0.31	78,78,78,78	0
58	MG	1a	1743	1/1	0.90	0.14	66,66,66,66	0
58	MG	2a	1625	1/1	0.90	0.32	70,70,70,70	0
58	MG	1A	3996	1/1	0.90	0.20	73,73,73,73	0
58	MG	2A	3127	1/1	0.90	0.27	66,66,66,66	0
58	MG	1A	3998	1/1	0.90	0.15	56,56,56,56	0
58	MG	1A	3250	1/1	0.90	0.23	49,49,49,49	0
58	MG	1A	3171	1/1	0.90	0.16	42,42,42,42	0
58	MG	2A	3618	1/1	0.90	0.17	63,63,63,63	0
58	MG	2A	3619	1/1	0.90	0.12	74,74,74,74	0
58	MG	2a	1635	1/1	0.90	0.17	82,82,82,82	0
58	MG	1A	4004	1/1	0.90	0.12	65,65,65,65	0
58	MG	2A	3622	1/1	0.90	0.18	58,58,58,58	0
58	MG	2a	1639	1/1	0.90	0.14	76,76,76,76	0
58	MG	1A	3084	1/1	0.90	0.25	69,69,69,69	0
58	MG	1A	3864	1/1	0.90	0.22	64,64,64,64	0
58	MG	1A	4010	1/1	0.90	0.09	22,22,22,22	0
58	MG	2A	3630	1/1	0.90	0.12	59,59,59,59	0
58	MG	1A	4011	1/1	0.90	0.14	73,73,73,73	0
58	MG	2a	1658	1/1	0.90	0.23	58,58,58,58	0
58	MG	2a	1661	1/1	0.90	0.17	58,58,58,58	0
58	MG	1A	3865	1/1	0.90	0.10	41,41,41,41	0
58	MG	2A	3332	1/1	0.90	0.16	51,51,51,51	0
58	MG	2A	3145	1/1	0.90	0.14	68,68,68,68	0
58	MG	1A	3722	1/1	0.90	0.23	67,67,67,67	0
58	MG	1A	3465	1/1	0.90	0.18	48,48,48,48	0
58	MG	1A	3290	1/1	0.90	0.32	60,60,60,60	0
58	MG	1a	1771	1/1	0.90	0.15	52,52,52,52	0
58	MG	2A	3344	1/1	0.90	0.17	65,65,65,65	0
58	MG	2a	1673	1/1	0.90	0.11	63,63,63,63	0
58	MG	1a	1784	1/1	0.90	0.15	77,77,77,77	0
58	MG	1A	3293	1/1	0.90	0.17	65,65,65,65	0
58	MG	1A	3387	1/1	0.90	0.17	64,64,64,64	0
58	MG	2A	3350	1/1	0.90	0.31	65,65,65,65	0
58	MG	1A	3388	1/1	0.90	0.20	63,63,63,63	0
58	MG	2a	1681	1/1	0.90	0.36	69,69,69,69	0
58	MG	2A	3168	1/1	0.90	0.22	67,67,67,67	0
58	MG	1a	1798	1/1	0.90	0.23	73,73,73,73	0
58	MG	2A	3657	1/1	0.90	0.23	60,60,60,60	0
58	MG	1A	3218	1/1	0.90	0.21	67,67,67,67	0
58	MG	1A	3745	1/1	0.90	0.09	50,50,50,50	0
58	MG	2A	3664	1/1	0.90	0.19	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3359	1/1	0.90	0.29	59,59,59,59	0
58	MG	2a	1696	1/1	0.90	0.27	83,83,83,83	0
58	MG	2a	1699	1/1	0.90	0.25	72,72,72,72	0
58	MG	2A	3667	1/1	0.90	0.22	63,63,63,63	0
58	MG	1A	4031	1/1	0.90	0.13	73,73,73,73	0
58	MG	2A	3362	1/1	0.90	0.14	50,50,50,50	0
58	MG	2A	3673	1/1	0.90	0.28	63,63,63,63	0
58	MG	16	102	1/1	0.90	0.20	53,53,53,53	0
58	MG	1A	3606	1/1	0.90	0.08	31,31,31,31	0
58	MG	2A	3367	1/1	0.90	0.22	58,58,58,58	0
58	MG	1A	3398	1/1	0.90	0.19	55,55,55,55	0
58	MG	2A	3179	1/1	0.90	0.12	66,66,66,66	0
58	MG	2A	3180	1/1	0.90	0.12	78,78,78,78	0
58	MG	2a	1715	1/1	0.90	0.35	64,64,64,64	0
58	MG	1A	3903	1/1	0.90	0.09	51,51,51,51	0
58	MG	2A	3687	1/1	0.90	0.12	75,75,75,75	0
58	MG	2A	3689	1/1	0.90	0.15	63,63,63,63	0
58	MG	1A	3085	1/1	0.90	0.19	68,68,68,68	0
58	MG	2A	3184	1/1	0.90	0.36	68,68,68,68	0
58	MG	2A	3696	1/1	0.90	0.21	82,82,82,82	0
58	MG	1A	3613	1/1	0.90	0.10	35,35,35,35	0
58	MG	2A	3186	1/1	0.90	0.41	77,77,77,77	0
58	MG	2a	1730	1/1	0.90	0.13	80,80,80,80	0
58	MG	2a	1731	1/1	0.90	0.18	70,70,70,70	0
58	MG	1A	4047	1/1	0.90	0.15	57,57,57,57	0
58	MG	2a	1744	1/1	0.90	0.14	77,77,77,77	0
58	MG	2A	3703	1/1	0.90	0.16	71,71,71,71	0
58	MG	2A	3704	1/1	0.90	0.14	68,68,68,68	0
58	MG	1A	4051	1/1	0.90	0.10	68,68,68,68	0
58	MG	2A	3393	1/1	0.90	0.16	71,71,71,71	0
58	MG	2A	3193	1/1	0.90	0.30	72,72,72,72	0
58	MG	1A	3413	1/1	0.90	0.25	47,47,47,47	0
58	MG	2a	1761	1/1	0.90	0.28	65,65,65,65	0
58	MG	2A	3405	1/1	0.90	0.15	54,54,54,54	0
58	MG	1a	1618	1/1	0.90	0.15	60,60,60,60	0
58	MG	1A	3763	1/1	0.90	0.10	53,53,53,53	0
58	MG	2A	3410	1/1	0.90	0.22	75,75,75,75	0
58	MG	1A	3772	1/1	0.90	0.14	55,55,55,55	0
58	MG	1A	3340	1/1	0.90	0.25	54,54,54,54	0
58	MG	2A	3723	1/1	0.90	0.21	67,67,67,67	0
58	MG	1A	4062	1/1	0.90	0.09	65,65,65,65	0
58	MG	2A	3736	1/1	0.90	0.12	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3737	1/1	0.90	0.10	43,43,43,43	0
58	MG	2A	3205	1/1	0.90	0.23	76,76,76,76	0
58	MG	1a	1628	1/1	0.90	0.21	50,50,50,50	0
58	MG	1A	3134	1/1	0.90	0.14	56,56,56,56	0
58	MG	2A	3438	1/1	0.90	0.22	65,65,65,65	0
58	MG	2A	3748	1/1	0.90	0.09	67,67,67,67	0
58	MG	2A	3439	1/1	0.90	0.12	38,38,38,38	0
58	MG	1A	4080	1/1	0.90	0.14	77,77,77,77	0
58	MG	2A	3213	1/1	0.90	0.17	64,64,64,64	0
58	MG	1A	4083	1/1	0.90	0.13	62,62,62,62	0
58	MG	1A	3015	1/1	0.90	0.26	55,55,55,55	0
58	MG	1A	3779	1/1	0.90	0.23	53,53,53,53	0
58	MG	1w	104	1/1	0.90	0.14	67,67,67,67	0
58	MG	1A	3647	1/1	0.90	0.19	57,57,57,57	0
58	MG	1A	4094	1/1	0.90	0.10	57,57,57,57	0
58	MG	1A	3653	1/1	0.90	0.11	34,34,34,34	0
58	MG	1a	1645	1/1	0.90	0.17	58,58,58,58	0
58	MG	1A	3420	1/1	0.90	0.15	60,60,60,60	0
58	MG	1A	3421	1/1	0.90	0.19	50,50,50,50	0
58	MG	1A	3346	1/1	0.90	0.23	67,67,67,67	0
58	MG	2a	1813	1/1	0.90	0.21	75,75,75,75	0
58	MG	2A	3779	1/1	0.90	0.16	61,61,61,61	0
58	MG	2A	3780	1/1	0.90	0.12	56,56,56,56	0
58	MG	1A	3939	1/1	0.90	0.13	56,56,56,56	0
58	MG	2A	3782	1/1	0.90	0.12	62,62,62,62	0
58	MG	2a	1827	1/1	0.90	0.20	74,74,74,74	0
58	MG	2A	3231	1/1	0.90	0.27	72,72,72,72	0
58	MG	2A	3788	1/1	0.90	0.15	65,65,65,65	0
58	MG	2A	3793	1/1	0.90	0.15	80,80,80,80	0
58	MG	2A	3795	1/1	0.90	0.07	81,81,81,81	0
58	MG	1A	3505	1/1	0.90	0.12	58,58,58,58	0
58	MG	2d	302	1/1	0.90	0.22	68,68,68,68	0
58	MG	2A	3803	1/1	0.90	0.12	42,42,42,42	0
58	MG	2A	3804	1/1	0.90	0.11	63,63,63,63	0
58	MG	1A	4110	1/1	0.90	0.16	57,57,57,57	0
58	MG	1x	114	1/1	0.90	0.27	70,70,70,70	0
58	MG	1A	3661	1/1	0.90	0.19	60,60,60,60	0
58	MG	2t	201	1/1	0.90	0.20	66,66,66,66	0
58	MG	1a	1665	1/1	0.90	0.33	80,80,80,80	0
58	MG	1A	3424	1/1	0.90	0.22	62,62,62,62	0
58	MG	1A	3298	1/1	0.90	0.25	66,66,66,66	0
58	MG	2A	3243	1/1	0.90	0.12	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3519	1/1	0.90	0.11	61,61,61,61	0
58	MG	1a	1671	1/1	0.90	0.21	73,73,73,73	0
58	MG	2A	3818	1/1	0.90	0.17	70,70,70,70	0
58	MG	2A	3021	1/1	0.90	0.29	58,58,58,58	0
58	MG	2A	3820	1/1	0.90	0.29	79,79,79,79	0
58	MG	1A	3426	1/1	0.90	0.17	56,56,56,56	0
58	MG	1A	3672	1/1	0.90	0.12	57,57,57,57	0
58	MG	1a	1676	1/1	0.90	0.11	72,72,72,72	0
59	K	2A	3368	1/1	0.90	0.14	73,73,73,73	0
58	MG	23	101	1/1	0.91	0.24	67,67,67,67	0
58	MG	1A	3478	1/1	0.91	0.14	62,62,62,62	0
58	MG	26	102	1/1	0.91	0.12	66,66,66,66	0
58	MG	27	102	1/1	0.91	0.11	56,56,56,56	0
58	MG	1A	3540	1/1	0.91	0.30	67,67,67,67	0
58	MG	27	104	1/1	0.91	0.15	70,70,70,70	0
58	MG	28	101	1/1	0.91	0.25	58,58,58,58	0
58	MG	1a	1658	1/1	0.91	0.10	68,68,68,68	0
58	MG	2A	3355	1/1	0.91	0.26	57,57,57,57	0
58	MG	1A	3330	1/1	0.91	0.11	59,59,59,59	0
58	MG	2A	3357	1/1	0.91	0.45	77,77,77,77	0
58	MG	1A	3855	1/1	0.91	0.11	61,61,61,61	0
58	MG	1A	3981	1/1	0.91	0.07	39,39,39,39	0
58	MG	1A	3660	1/1	0.91	0.08	67,67,67,67	0
58	MG	2A	3638	1/1	0.91	0.22	75,75,75,75	0
58	MG	1A	3393	1/1	0.91	0.15	46,46,46,46	0
58	MG	1B	235	1/1	0.91	0.27	76,76,76,76	0
58	MG	1A	3863	1/1	0.91	0.15	39,39,39,39	0
58	MG	1A	3755	1/1	0.91	0.10	52,52,52,52	0
58	MG	1A	3160	1/1	0.91	0.23	60,60,60,60	0
58	MG	1A	3664	1/1	0.91	0.17	47,47,47,47	0
58	MG	1A	3017	1/1	0.91	0.18	54,54,54,54	0
58	MG	2A	3202	1/1	0.91	0.38	55,55,55,55	0
58	MG	1F	306	1/1	0.91	0.16	43,43,43,43	0
58	MG	1x	107	1/1	0.91	0.23	60,60,60,60	0
58	MG	2A	3656	1/1	0.91	0.11	43,43,43,43	0
58	MG	2A	3385	1/1	0.91	0.13	50,50,50,50	0
58	MG	2A	3658	1/1	0.91	0.40	58,58,58,58	0
58	MG	2A	3386	1/1	0.91	0.25	66,66,66,66	0
58	MG	1A	3877	1/1	0.91	0.12	75,75,75,75	0
58	MG	1A	3405	1/1	0.91	0.10	73,73,73,73	0
58	MG	1a	1684	1/1	0.91	0.28	58,58,58,58	0
58	MG	1A	3335	1/1	0.91	0.15	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3557	1/1	0.91	0.14	63,63,63,63	0
58	MG	2a	1636	1/1	0.91	0.35	77,77,77,77	0
58	MG	2A	3394	1/1	0.91	0.35	69,69,69,69	0
58	MG	1a	1688	1/1	0.91	0.21	62,62,62,62	0
58	MG	2A	3400	1/1	0.91	0.12	60,60,60,60	0
58	MG	1F	315	1/1	0.91	0.22	57,57,57,57	0
58	MG	1A	3891	1/1	0.91	0.09	71,71,71,71	0
58	MG	2a	1648	1/1	0.91	0.21	65,65,65,65	0
58	MG	1G	203	1/1	0.91	0.15	72,72,72,72	0
58	MG	1A	3436	1/1	0.91	0.30	66,66,66,66	0
58	MG	1A	3131	1/1	0.91	0.19	44,44,44,44	0
58	MG	2a	1657	1/1	0.91	0.24	67,67,67,67	0
58	MG	2A	3225	1/1	0.91	0.12	68,68,68,68	0
58	MG	2a	1659	1/1	0.91	0.31	73,73,73,73	0
58	MG	2a	1660	1/1	0.91	0.17	60,60,60,60	0
58	MG	1a	1695	1/1	0.91	0.21	56,56,56,56	0
58	MG	1A	3568	1/1	0.91	0.12	64,64,64,64	0
58	MG	2A	3690	1/1	0.91	0.13	69,69,69,69	0
58	MG	1A	3492	1/1	0.91	0.15	66,66,66,66	0
58	MG	2A	3692	1/1	0.91	0.09	51,51,51,51	0
58	MG	1A	3573	1/1	0.91	0.12	55,55,55,55	0
58	MG	1a	1701	1/1	0.91	0.15	82,82,82,82	0
58	MG	2A	3039	1/1	0.91	0.18	60,60,60,60	0
58	MG	1A	3902	1/1	0.91	0.18	72,72,72,72	0
58	MG	2A	3045	1/1	0.91	0.10	47,47,47,47	0
58	MG	2A	3046	1/1	0.91	0.25	77,77,77,77	0
58	MG	1A	3585	1/1	0.91	0.14	58,58,58,58	0
58	MG	1A	4021	1/1	0.91	0.20	56,56,56,56	0
58	MG	1R	206	1/1	0.91	0.09	75,75,75,75	0
58	MG	2A	3241	1/1	0.91	0.17	62,62,62,62	0
58	MG	1a	1708	1/1	0.91	0.14	55,55,55,55	0
58	MG	2a	1682	1/1	0.91	0.22	72,72,72,72	0
58	MG	1A	4024	1/1	0.91	0.20	65,65,65,65	0
58	MG	2A	3471	1/1	0.91	0.13	65,65,65,65	0
58	MG	1A	3785	1/1	0.91	0.09	48,48,48,48	0
58	MG	2A	3715	1/1	0.91	0.13	66,66,66,66	0
58	MG	1A	3038	1/1	0.91	0.10	38,38,38,38	0
58	MG	2A	3249	1/1	0.91	0.13	73,73,73,73	0
58	MG	1A	3452	1/1	0.91	0.14	55,55,55,55	0
58	MG	1A	3689	1/1	0.91	0.10	30,30,30,30	0
58	MG	2A	3726	1/1	0.91	0.12	63,63,63,63	0
58	MG	1A	4030	1/1	0.91	0.13	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1702	1/1	0.91	0.25	59,59,59,59	0
58	MG	1a	1721	1/1	0.91	0.11	71,71,71,71	0
58	MG	1A	3693	1/1	0.91	0.19	56,56,56,56	0
58	MG	2A	3493	1/1	0.91	0.14	62,62,62,62	0
58	MG	2A	3255	1/1	0.91	0.18	72,72,72,72	0
58	MG	2A	3257	1/1	0.91	0.23	71,71,71,71	0
58	MG	1A	3415	1/1	0.91	0.18	50,50,50,50	0
58	MG	2A	3068	1/1	0.91	0.18	62,62,62,62	0
58	MG	2A	3070	1/1	0.91	0.20	61,61,61,61	0
58	MG	2a	1713	1/1	0.91	0.27	63,63,63,63	0
58	MG	1W	201	1/1	0.91	0.28	63,63,63,63	0
58	MG	2A	3263	1/1	0.91	0.17	67,67,67,67	0
58	MG	1A	3503	1/1	0.91	0.29	56,56,56,56	0
58	MG	1A	3266	1/1	0.91	0.20	58,58,58,58	0
58	MG	1A	3798	1/1	0.91	0.12	63,63,63,63	0
58	MG	2a	1720	1/1	0.91	0.40	71,71,71,71	0
58	MG	2A	3268	1/1	0.91	0.15	68,68,68,68	0
58	MG	1X	103	1/1	0.91	0.21	47,47,47,47	0
58	MG	1A	3459	1/1	0.91	0.10	63,63,63,63	0
58	MG	1A	3801	1/1	0.91	0.13	35,35,35,35	0
58	MG	1A	3927	1/1	0.91	0.22	64,64,64,64	0
58	MG	2a	1728	1/1	0.91	0.20	78,78,78,78	0
58	MG	1A	3509	1/1	0.91	0.12	65,65,65,65	0
58	MG	1A	3374	1/1	0.91	0.19	65,65,65,65	0
58	MG	2A	3522	1/1	0.91	0.25	52,52,52,52	0
58	MG	2a	1735	1/1	0.91	0.11	86,86,86,86	0
58	MG	2a	1738	1/1	0.91	0.24	60,60,60,60	0
58	MG	2A	3777	1/1	0.91	0.13	70,70,70,70	0
58	MG	1A	3936	1/1	0.91	0.14	74,74,74,74	0
58	MG	1A	3808	1/1	0.91	0.16	61,61,61,61	0
58	MG	2a	1750	1/1	0.91	0.18	77,77,77,77	0
58	MG	2a	1753	1/1	0.91	0.15	69,69,69,69	0
58	MG	1A	3611	1/1	0.91	0.11	53,53,53,53	0
58	MG	2a	1755	1/1	0.91	0.25	66,66,66,66	0
58	MG	1A	3708	1/1	0.91	0.14	28,28,28,28	0
58	MG	2A	3783	1/1	0.91	0.17	80,80,80,80	0
58	MG	1A	4078	1/1	0.91	0.07	81,81,81,81	0
58	MG	19	101	1/1	0.91	0.30	60,60,60,60	0
58	MG	1A	3518	1/1	0.91	0.19	73,73,73,73	0
58	MG	1A	4081	1/1	0.91	0.15	47,47,47,47	0
58	MG	2A	3797	1/1	0.91	0.08	74,74,74,74	0
58	MG	1a	1603	1/1	0.91	0.16	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3419	1/1	0.91	0.15	59,59,59,59	0
58	MG	1a	1761	1/1	0.91	0.12	70,70,70,70	0
58	MG	1a	1766	1/1	0.91	0.18	60,60,60,60	0
58	MG	2A	3109	1/1	0.91	0.25	70,70,70,70	0
58	MG	2A	3110	1/1	0.91	0.30	71,71,71,71	0
58	MG	2a	1773	1/1	0.91	0.21	81,81,81,81	0
58	MG	1A	3818	1/1	0.91	0.17	41,41,41,41	0
58	MG	1a	1607	1/1	0.91	0.15	59,59,59,59	0
58	MG	2A	3118	1/1	0.91	0.20	64,64,64,64	0
58	MG	1A	3521	1/1	0.91	0.33	67,67,67,67	0
58	MG	1A	3719	1/1	0.91	0.09	20,20,20,20	0
58	MG	1a	1778	1/1	0.91	0.17	87,87,87,87	0
58	MG	1a	1781	1/1	0.91	0.11	72,72,72,72	0
58	MG	1A	3826	1/1	0.91	0.13	39,39,39,39	0
58	MG	2A	3568	1/1	0.91	0.15	71,71,71,71	0
58	MG	1A	4095	1/1	0.91	0.13	51,51,51,51	0
58	MG	2A	3137	1/1	0.91	0.24	56,56,56,56	0
58	MG	2a	1792	1/1	0.91	0.25	72,72,72,72	0
58	MG	1A	3633	1/1	0.91	0.12	65,65,65,65	0
58	MG	2A	3311	1/1	0.91	0.31	70,70,70,70	0
58	MG	1a	1794	1/1	0.91	0.27	69,69,69,69	0
58	MG	1A	3832	1/1	0.91	0.10	33,33,33,33	0
58	MG	1a	1796	1/1	0.91	0.25	68,68,68,68	0
58	MG	2A	3578	1/1	0.91	0.29	45,45,45,45	0
58	MG	1A	4102	1/1	0.91	0.15	83,83,83,83	0
58	MG	1a	1799	1/1	0.91	0.11	66,66,66,66	0
58	MG	1A	3726	1/1	0.91	0.13	36,36,36,36	0
58	MG	1a	1627	1/1	0.91	0.31	66,66,66,66	0
58	MG	2A	3152	1/1	0.91	0.16	53,53,53,53	0
58	MG	2a	1820	1/1	0.91	0.11	67,67,67,67	0
58	MG	1A	3961	1/1	0.91	0.12	78,78,78,78	0
58	MG	1A	3836	1/1	0.91	0.11	36,36,36,36	0
58	MG	2A	3590	1/1	0.91	0.21	78,78,78,78	0
58	MG	2a	1825	1/1	0.91	0.13	77,77,77,77	0
58	MG	2B	214	1/1	0.91	0.22	71,71,71,71	0
58	MG	1a	1633	1/1	0.91	0.39	70,70,70,70	0
58	MG	2A	3324	1/1	0.91	0.12	82,82,82,82	0
58	MG	2A	3158	1/1	0.91	0.25	65,65,65,65	0
58	MG	2A	3159	1/1	0.91	0.10	70,70,70,70	0
58	MG	1A	3840	1/1	0.91	0.10	26,26,26,26	0
58	MG	1A	3312	1/1	0.91	0.17	60,60,60,60	0
58	MG	2e	201	1/1	0.91	0.07	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3166	1/1	0.91	0.15	53,53,53,53	0
58	MG	1A	4112	1/1	0.91	0.19	55,55,55,55	0
58	MG	2I	203	1/1	0.91	0.14	74,74,74,74	0
58	MG	2A	3334	1/1	0.91	0.27	60,60,60,60	0
58	MG	1B	201	1/1	0.91	0.18	66,66,66,66	0
58	MG	1A	3238	1/1	0.91	0.28	67,67,67,67	0
58	MG	2F	304	1/1	0.91	0.12	60,60,60,60	0
58	MG	1B	204	1/1	0.91	0.35	73,73,73,73	0
58	MG	2A	3340	1/1	0.91	0.30	71,71,71,71	0
58	MG	2A	3342	1/1	0.91	0.35	67,67,67,67	0
58	MG	2P	201	1/1	0.91	0.14	61,61,61,61	0
58	MG	2A	3174	1/1	0.91	0.37	76,76,76,76	0
58	MG	2A	3612	1/1	0.91	0.28	65,65,65,65	0
58	MG	1A	3279	1/1	0.91	0.14	54,54,54,54	0
58	MG	1A	3217	1/1	0.91	0.17	40,40,40,40	0
58	MG	2A	3620	1/1	0.91	0.16	59,59,59,59	0
58	MG	2x	104	1/1	0.91	0.10	68,68,68,68	0
58	MG	1B	213	1/1	0.91	0.25	69,69,69,69	0
58	MG	2Y	201	1/1	0.91	0.24	69,69,69,69	0
58	MG	2x	107	1/1	0.91	0.09	57,57,57,57	0
58	MG	1A	3328	1/1	0.91	0.15	72,72,72,72	0
58	MG	1B	219	1/1	0.91	0.18	52,52,52,52	0
58	MG	2A	3209	1/1	0.92	0.15	54,54,54,54	0
58	MG	1S	201	1/1	0.92	0.30	59,59,59,59	0
58	MG	1S	202	1/1	0.92	0.16	62,62,62,62	0
58	MG	2a	1613	1/1	0.92	0.20	81,81,81,81	0
58	MG	1A	3636	1/1	0.92	0.13	34,34,34,34	0
58	MG	2A	3218	1/1	0.92	0.46	86,86,86,86	0
58	MG	1A	3928	1/1	0.92	0.08	34,34,34,34	0
58	MG	1A	3314	1/1	0.92	0.20	65,65,65,65	0
58	MG	2a	1619	1/1	0.92	0.36	63,63,63,63	0
58	MG	1A	3640	1/1	0.92	0.10	67,67,67,67	0
58	MG	1U	203	1/1	0.92	0.19	56,56,56,56	0
58	MG	1a	1704	1/1	0.92	0.35	71,71,71,71	0
58	MG	1A	3934	1/1	0.92	0.16	64,64,64,64	0
58	MG	1A	3175	1/1	0.92	0.11	77,77,77,77	0
58	MG	1a	1707	1/1	0.92	0.12	70,70,70,70	0
58	MG	2A	3041	1/1	0.92	0.16	59,59,59,59	0
58	MG	2A	3666	1/1	0.92	0.23	67,67,67,67	0
58	MG	2a	1628	1/1	0.92	0.15	73,73,73,73	0
58	MG	1A	3823	1/1	0.92	0.17	38,38,38,38	0
58	MG	1A	3727	1/1	0.92	0.11	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	4067	1/1	0.92	0.15	61,61,61,61	0
58	MG	1A	4068	1/1	0.92	0.19	71,71,71,71	0
58	MG	2a	1633	1/1	0.92	0.08	63,63,63,63	0
58	MG	1A	3177	1/1	0.92	0.14	51,51,51,51	0
58	MG	1A	4073	1/1	0.92	0.09	44,44,44,44	0
58	MG	1A	3828	1/1	0.92	0.11	43,43,43,43	0
58	MG	1X	104	1/1	0.92	0.12	49,49,49,49	0
58	MG	1A	3649	1/1	0.92	0.10	29,29,29,29	0
58	MG	2A	3431	1/1	0.92	0.10	74,74,74,74	0
58	MG	2A	3434	1/1	0.92	0.10	42,42,42,42	0
58	MG	1Z	303	1/1	0.92	0.10	67,67,67,67	0
58	MG	1A	3831	1/1	0.92	0.14	40,40,40,40	0
58	MG	1A	3082	1/1	0.92	0.13	46,46,46,46	0
58	MG	1A	3096	1/1	0.92	0.29	58,58,58,58	0
58	MG	2A	3445	1/1	0.92	0.13	61,61,61,61	0
58	MG	1A	3742	1/1	0.92	0.15	35,35,35,35	0
58	MG	2A	3695	1/1	0.92	0.13	59,59,59,59	0
58	MG	1A	3838	1/1	0.92	0.10	29,29,29,29	0
58	MG	2A	3450	1/1	0.92	0.07	56,56,56,56	0
58	MG	2A	3451	1/1	0.92	0.12	51,51,51,51	0
58	MG	1a	1731	1/1	0.92	0.10	64,64,64,64	0
58	MG	2A	3460	1/1	0.92	0.15	52,52,52,52	0
58	MG	1A	3194	1/1	0.92	0.11	65,65,65,65	0
58	MG	2A	3069	1/1	0.92	0.22	63,63,63,63	0
58	MG	1A	3958	1/1	0.92	0.12	51,51,51,51	0
58	MG	1A	4096	1/1	0.92	0.12	53,53,53,53	0
58	MG	18	101	1/1	0.92	0.21	62,62,62,62	0
58	MG	2A	3475	1/1	0.92	0.10	47,47,47,47	0
58	MG	2a	1672	1/1	0.92	0.14	64,64,64,64	0
58	MG	1A	3482	1/1	0.92	0.14	61,61,61,61	0
58	MG	1a	1744	1/1	0.92	0.33	74,74,74,74	0
58	MG	2A	3258	1/1	0.92	0.40	69,69,69,69	0
58	MG	2A	3484	1/1	0.92	0.14	46,46,46,46	0
58	MG	1A	3376	1/1	0.92	0.18	51,51,51,51	0
58	MG	2A	3718	1/1	0.92	0.09	44,44,44,44	0
58	MG	1A	3659	1/1	0.92	0.14	50,50,50,50	0
58	MG	1A	4103	1/1	0.92	0.08	58,58,58,58	0
58	MG	2A	3725	1/1	0.92	0.16	56,56,56,56	0
58	MG	2a	1687	1/1	0.92	0.33	77,77,77,77	0
58	MG	2a	1688	1/1	0.92	0.32	64,64,64,64	0
58	MG	2A	3083	1/1	0.92	0.11	51,51,51,51	0
58	MG	2A	3732	1/1	0.92	0.10	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3490	1/1	0.92	0.28	60,60,60,60	0
58	MG	2A	3084	1/1	0.92	0.17	54,54,54,54	0
58	MG	2A	3264	1/1	0.92	0.18	61,61,61,61	0
58	MG	1A	3149	1/1	0.92	0.13	61,61,61,61	0
58	MG	1A	3749	1/1	0.92	0.07	25,25,25,25	0
58	MG	1a	1752	1/1	0.92	0.28	60,60,60,60	0
58	MG	2A	3503	1/1	0.92	0.22	62,62,62,62	0
58	MG	2A	3747	1/1	0.92	0.10	81,81,81,81	0
58	MG	1a	1605	1/1	0.92	0.18	68,68,68,68	0
58	MG	2A	3269	1/1	0.92	0.20	60,60,60,60	0
58	MG	2a	1705	1/1	0.92	0.27	68,68,68,68	0
58	MG	2A	3506	1/1	0.92	0.10	45,45,45,45	0
58	MG	1A	3750	1/1	0.92	0.08	21,21,21,21	0
58	MG	1A	3968	1/1	0.92	0.12	57,57,57,57	0
58	MG	2A	3760	1/1	0.92	0.16	69,69,69,69	0
58	MG	1A	3553	1/1	0.92	0.13	65,65,65,65	0
58	MG	1a	1759	1/1	0.92	0.08	81,81,81,81	0
58	MG	1a	1610	1/1	0.92	0.15	55,55,55,55	0
58	MG	1A	3291	1/1	0.92	0.16	58,58,58,58	0
58	MG	1a	1762	1/1	0.92	0.10	62,62,62,62	0
58	MG	2a	1716	1/1	0.92	0.23	66,66,66,66	0
58	MG	1A	3382	1/1	0.92	0.20	49,49,49,49	0
58	MG	1A	3759	1/1	0.92	0.18	70,70,70,70	0
58	MG	2A	3282	1/1	0.92	0.15	72,72,72,72	0
58	MG	2A	3283	1/1	0.92	0.12	58,58,58,58	0
58	MG	1B	203	1/1	0.92	0.10	56,56,56,56	0
58	MG	2A	3775	1/1	0.92	0.14	73,73,73,73	0
58	MG	2A	3776	1/1	0.92	0.19	70,70,70,70	0
58	MG	1A	3562	1/1	0.92	0.18	59,59,59,59	0
58	MG	1A	3383	1/1	0.92	0.17	70,70,70,70	0
58	MG	2A	3526	1/1	0.92	0.15	66,66,66,66	0
58	MG	2A	3528	1/1	0.92	0.10	50,50,50,50	0
58	MG	1A	3770	1/1	0.92	0.07	41,41,41,41	0
58	MG	1a	1626	1/1	0.92	0.21	67,67,67,67	0
58	MG	1A	3491	1/1	0.92	0.14	57,57,57,57	0
58	MG	2a	1737	1/1	0.92	0.10	53,53,53,53	0
58	MG	2A	3291	1/1	0.92	0.13	72,72,72,72	0
58	MG	2A	3789	1/1	0.92	0.12	69,69,69,69	0
58	MG	1A	3154	1/1	0.92	0.29	61,61,61,61	0
58	MG	2A	3545	1/1	0.92	0.16	65,65,65,65	0
58	MG	2A	3121	1/1	0.92	0.13	52,52,52,52	0
58	MG	2a	1751	1/1	0.92	0.17	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3123	1/1	0.92	0.27	50,50,50,50	0
58	MG	2A	3549	1/1	0.92	0.17	49,49,49,49	0
58	MG	1a	1786	1/1	0.92	0.11	78,78,78,78	0
58	MG	1a	1788	1/1	0.92	0.15	61,61,61,61	0
58	MG	1a	1630	1/1	0.92	0.42	70,70,70,70	0
58	MG	1B	215	1/1	0.92	0.13	64,64,64,64	0
58	MG	2A	3555	1/1	0.92	0.20	52,52,52,52	0
58	MG	1B	218	1/1	0.92	0.10	57,57,57,57	0
58	MG	1A	3870	1/1	0.92	0.10	66,66,66,66	0
58	MG	1A	3109	1/1	0.92	0.16	60,60,60,60	0
58	MG	1A	3386	1/1	0.92	0.16	59,59,59,59	0
58	MG	1A	3882	1/1	0.92	0.13	59,59,59,59	0
58	MG	2a	1767	1/1	0.92	0.23	62,62,62,62	0
58	MG	1a	1805	1/1	0.92	0.09	76,76,76,76	0
58	MG	1A	3885	1/1	0.92	0.11	71,71,71,71	0
58	MG	2A	3144	1/1	0.92	0.19	57,57,57,57	0
58	MG	1a	1808	1/1	0.92	0.20	75,75,75,75	0
58	MG	1A	3676	1/1	0.92	0.08	47,47,47,47	0
58	MG	2A	3147	1/1	0.92	0.25	67,67,67,67	0
58	MG	1A	3999	1/1	0.92	0.16	64,64,64,64	0
58	MG	1A	3118	1/1	0.92	0.26	44,44,44,44	0
58	MG	2A	3151	1/1	0.92	0.48	72,72,72,72	0
58	MG	2a	1779	1/1	0.92	0.17	71,71,71,71	0
58	MG	1A	3119	1/1	0.92	0.22	64,64,64,64	0
58	MG	1a	1652	1/1	0.92	0.22	62,62,62,62	0
58	MG	2a	1783	1/1	0.92	0.16	71,71,71,71	0
58	MG	2B	204	1/1	0.92	0.22	68,68,68,68	0
58	MG	2A	3155	1/1	0.92	0.22	78,78,78,78	0
58	MG	2B	206	1/1	0.92	0.13	78,78,78,78	0
58	MG	1A	3447	1/1	0.92	0.12	60,60,60,60	0
58	MG	1A	3391	1/1	0.92	0.14	72,72,72,72	0
58	MG	1A	3602	1/1	0.92	0.10	51,51,51,51	0
58	MG	1E	308	1/1	0.92	0.07	26,26,26,26	0
58	MG	1A	3258	1/1	0.92	0.33	67,67,67,67	0
58	MG	1A	3216	1/1	0.92	0.15	51,51,51,51	0
58	MG	2A	3164	1/1	0.92	0.10	59,59,59,59	0
58	MG	1a	1663	1/1	0.92	0.14	70,70,70,70	0
58	MG	2a	1801	1/1	0.92	0.08	88,88,88,88	0
58	MG	2A	3329	1/1	0.92	0.08	69,69,69,69	0
58	MG	1e	202	1/1	0.92	0.24	63,63,63,63	0
58	MG	1E	313	1/1	0.92	0.07	38,38,38,38	0
58	MG	1A	3607	1/1	0.92	0.08	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1810	1/1	0.92	0.15	73,73,73,73	0
58	MG	2a	1811	1/1	0.92	0.15	64,64,64,64	0
58	MG	1A	3900	1/1	0.92	0.13	58,58,58,58	0
58	MG	1A	3014	1/1	0.92	0.18	50,50,50,50	0
58	MG	2a	1819	1/1	0.92	0.23	76,76,76,76	0
58	MG	1A	3402	1/1	0.92	0.18	59,59,59,59	0
58	MG	1F	313	1/1	0.92	0.11	54,54,54,54	0
58	MG	1A	3304	1/1	0.92	0.14	61,61,61,61	0
58	MG	1A	3088	1/1	0.92	0.26	50,50,50,50	0
58	MG	2F	301	1/1	0.92	0.24	52,52,52,52	0
58	MG	1A	3173	1/1	0.92	0.19	58,58,58,58	0
58	MG	2F	303	1/1	0.92	0.11	71,71,71,71	0
58	MG	1a	1678	1/1	0.92	0.35	61,61,61,61	0
58	MG	1A	3618	1/1	0.92	0.09	45,45,45,45	0
58	MG	2A	3182	1/1	0.92	0.13	64,64,64,64	0
58	MG	2A	3348	1/1	0.92	0.20	59,59,59,59	0
58	MG	2d	301	1/1	0.92	0.09	71,71,71,71	0
58	MG	1A	3908	1/1	0.92	0.18	64,64,64,64	0
58	MG	2Q	202	1/1	0.92	0.17	56,56,56,56	0
58	MG	1w	107	1/1	0.92	0.12	59,59,59,59	0
58	MG	2A	3617	1/1	0.92	0.09	43,43,43,43	0
58	MG	1N	204	1/1	0.92	0.25	52,52,52,52	0
58	MG	1x	101	1/1	0.92	0.32	70,70,70,70	0
58	MG	1a	1682	1/1	0.92	0.24	69,69,69,69	0
58	MG	2A	3354	1/1	0.92	0.19	49,49,49,49	0
58	MG	2A	3189	1/1	0.92	0.38	71,71,71,71	0
58	MG	2A	3190	1/1	0.92	0.13	64,64,64,64	0
58	MG	1A	3621	1/1	0.92	0.05	30,30,30,30	0
58	MG	2A	3626	1/1	0.92	0.12	47,47,47,47	0
58	MG	1O	205	1/1	0.92	0.12	68,68,68,68	0
58	MG	1A	3706	1/1	0.92	0.12	50,50,50,50	0
58	MG	1A	3804	1/1	0.92	0.26	41,41,41,41	0
58	MG	1A	3626	1/1	0.92	0.12	62,62,62,62	0
58	MG	1Q	204	1/1	0.92	0.17	72,72,72,72	0
58	MG	1A	3919	1/1	0.92	0.11	52,52,52,52	0
58	MG	1x	113	1/1	0.92	0.22	71,71,71,71	0
58	MG	1A	3359	1/1	0.92	0.30	34,34,34,34	0
58	MG	2A	3003	1/1	0.92	0.20	56,56,56,56	0
58	MG	2A	3373	1/1	0.92	0.16	70,70,70,70	0
58	MG	1A	3018	1/1	0.92	0.15	54,54,54,54	0
58	MG	1A	3716	1/1	0.92	0.09	37,37,37,37	0
58	MG	2a	1615	1/1	0.93	0.15	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1a	1739	1/1	0.93	0.24	77,77,77,77	0
58	MG	1A	4077	1/1	0.93	0.20	35,35,35,35	0
58	MG	2A	3440	1/1	0.93	0.14	71,71,71,71	0
58	MG	1A	3043	1/1	0.93	0.11	42,42,42,42	0
58	MG	2A	3442	1/1	0.93	0.12	60,60,60,60	0
58	MG	2A	3075	1/1	0.93	0.09	62,62,62,62	0
58	MG	1A	3793	1/1	0.93	0.15	55,55,55,55	0
58	MG	1A	3556	1/1	0.93	0.09	37,37,37,37	0
58	MG	1A	3680	1/1	0.93	0.10	69,69,69,69	0
58	MG	1A	3406	1/1	0.93	0.14	50,50,50,50	0
58	MG	1A	4086	1/1	0.93	0.11	79,79,79,79	0
58	MG	2A	3452	1/1	0.93	0.12	53,53,53,53	0
58	MG	1A	3351	1/1	0.93	0.20	41,41,41,41	0
58	MG	1A	4090	1/1	0.93	0.14	49,49,49,49	0
58	MG	1A	3559	1/1	0.93	0.12	64,64,64,64	0
58	MG	2A	3688	1/1	0.93	0.09	38,38,38,38	0
58	MG	1A	4093	1/1	0.93	0.12	66,66,66,66	0
58	MG	1A	3802	1/1	0.93	0.10	41,41,41,41	0
58	MG	1A	3476	1/1	0.93	0.10	56,56,56,56	0
58	MG	1A	3477	1/1	0.93	0.14	64,64,64,64	0
58	MG	1A	3410	1/1	0.93	0.27	47,47,47,47	0
58	MG	2A	3477	1/1	0.93	0.27	66,66,66,66	0
58	MG	1A	3354	1/1	0.93	0.14	58,58,58,58	0
58	MG	2A	3479	1/1	0.93	0.08	47,47,47,47	0
58	MG	2a	1640	1/1	0.93	0.09	69,69,69,69	0
58	MG	2A	3270	1/1	0.93	0.12	63,63,63,63	0
58	MG	2A	3700	1/1	0.93	0.14	60,60,60,60	0
58	MG	2a	1643	1/1	0.93	0.21	57,57,57,57	0
58	MG	1A	3572	1/1	0.93	0.13	49,49,49,49	0
58	MG	2A	3482	1/1	0.93	0.18	52,52,52,52	0
58	MG	1A	3812	1/1	0.93	0.10	58,58,58,58	0
58	MG	2a	1654	1/1	0.93	0.23	65,65,65,65	0
58	MG	2a	1655	1/1	0.93	0.19	58,58,58,58	0
58	MG	1a	1613	1/1	0.93	0.16	68,68,68,68	0
58	MG	1A	3309	1/1	0.93	0.16	48,48,48,48	0
58	MG	1a	1615	1/1	0.93	0.21	67,67,67,67	0
58	MG	1A	3697	1/1	0.93	0.10	51,51,51,51	0
58	MG	1A	3815	1/1	0.93	0.12	45,45,45,45	0
58	MG	1A	3578	1/1	0.93	0.06	45,45,45,45	0
58	MG	2a	1662	1/1	0.93	0.28	57,57,57,57	0
58	MG	1A	3817	1/1	0.93	0.06	45,45,45,45	0
58	MG	1A	3701	1/1	0.93	0.09	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3278	1/1	0.93	0.09	45,45,45,45	0
58	MG	1A	3240	1/1	0.93	0.09	62,62,62,62	0
58	MG	1A	3590	1/1	0.93	0.12	63,63,63,63	0
58	MG	1a	1629	1/1	0.93	0.15	55,55,55,55	0
58	MG	2A	3722	1/1	0.93	0.14	57,57,57,57	0
58	MG	2A	3126	1/1	0.93	0.29	54,54,54,54	0
58	MG	1A	3032	1/1	0.93	0.10	50,50,50,50	0
58	MG	1A	3317	1/1	0.93	0.21	57,57,57,57	0
58	MG	1A	3245	1/1	0.93	0.16	58,58,58,58	0
58	MG	2a	1675	1/1	0.93	0.19	71,71,71,71	0
58	MG	1B	212	1/1	0.93	0.30	69,69,69,69	0
58	MG	1A	3369	1/1	0.93	0.18	52,52,52,52	0
58	MG	1A	3002	1/1	0.93	0.11	53,53,53,53	0
58	MG	1A	3490	1/1	0.93	0.11	58,58,58,58	0
58	MG	2A	3515	1/1	0.93	0.12	59,59,59,59	0
58	MG	2A	3297	1/1	0.93	0.16	61,61,61,61	0
58	MG	2a	1685	1/1	0.93	0.20	58,58,58,58	0
58	MG	2A	3517	1/1	0.93	0.12	71,71,71,71	0
58	MG	1A	3326	1/1	0.93	0.12	58,58,58,58	0
58	MG	1A	3159	1/1	0.93	0.23	37,37,37,37	0
58	MG	1a	1642	1/1	0.93	0.21	64,64,64,64	0
58	MG	1A	3720	1/1	0.93	0.07	33,33,33,33	0
58	MG	2A	3751	1/1	0.93	0.08	55,55,55,55	0
58	MG	1A	3609	1/1	0.93	0.06	30,30,30,30	0
58	MG	1a	1816	1/1	0.93	0.08	69,69,69,69	0
58	MG	1a	1646	1/1	0.93	0.21	63,63,63,63	0
58	MG	2A	3761	1/1	0.93	0.11	58,58,58,58	0
58	MG	1A	3287	1/1	0.93	0.26	59,59,59,59	0
58	MG	2A	3527	1/1	0.93	0.14	79,79,79,79	0
58	MG	2a	1701	1/1	0.93	0.30	64,64,64,64	0
58	MG	1B	228	1/1	0.93	0.09	47,47,47,47	0
58	MG	1A	3126	1/1	0.93	0.13	51,51,51,51	0
58	MG	1a	1654	1/1	0.93	0.08	68,68,68,68	0
58	MG	2A	3768	1/1	0.93	0.21	62,62,62,62	0
58	MG	1A	3845	1/1	0.93	0.13	34,34,34,34	0
58	MG	1a	1825	1/1	0.93	0.09	83,83,83,83	0
58	MG	2A	3537	1/1	0.93	0.11	62,62,62,62	0
58	MG	1A	3378	1/1	0.93	0.08	55,55,55,55	0
58	MG	1d	301	1/1	0.93	0.08	69,69,69,69	0
58	MG	2A	3774	1/1	0.93	0.17	64,64,64,64	0
58	MG	1A	3983	1/1	0.93	0.08	53,53,53,53	0
58	MG	1A	3502	1/1	0.93	0.22	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3331	1/1	0.93	0.11	63,63,63,63	0
58	MG	1B	237	1/1	0.93	0.12	49,49,49,49	0
58	MG	2A	3318	1/1	0.93	0.11	65,65,65,65	0
58	MG	1A	3987	1/1	0.93	0.08	32,32,32,32	0
58	MG	1A	3432	1/1	0.93	0.18	52,52,52,52	0
58	MG	1A	3332	1/1	0.93	0.10	52,52,52,52	0
58	MG	1A	3205	1/1	0.93	0.13	48,48,48,48	0
58	MG	1A	3857	1/1	0.93	0.15	45,45,45,45	0
58	MG	1A	3513	1/1	0.93	0.12	52,52,52,52	0
58	MG	1F	304	1/1	0.93	0.16	63,63,63,63	0
58	MG	2A	3794	1/1	0.93	0.09	66,66,66,66	0
58	MG	2A	3326	1/1	0.93	0.14	76,76,76,76	0
58	MG	1A	3129	1/1	0.93	0.17	57,57,57,57	0
58	MG	1A	3637	1/1	0.93	0.12	30,30,30,30	0
58	MG	1A	3747	1/1	0.93	0.13	52,52,52,52	0
58	MG	1A	3437	1/1	0.93	0.10	52,52,52,52	0
58	MG	2a	1736	1/1	0.93	0.14	73,73,73,73	0
58	MG	1A	3866	1/1	0.93	0.09	78,78,78,78	0
58	MG	1A	3439	1/1	0.93	0.20	52,52,52,52	0
58	MG	2a	1742	1/1	0.93	0.13	49,49,49,49	0
58	MG	1A	3443	1/1	0.93	0.28	40,40,40,40	0
58	MG	1A	3645	1/1	0.93	0.12	33,33,33,33	0
58	MG	1A	3872	1/1	0.93	0.10	57,57,57,57	0
58	MG	1a	1685	1/1	0.93	0.10	54,54,54,54	0
58	MG	2A	3339	1/1	0.93	0.36	72,72,72,72	0
58	MG	1A	3875	1/1	0.93	0.08	49,49,49,49	0
58	MG	1N	202	1/1	0.93	0.11	52,52,52,52	0
58	MG	2A	3579	1/1	0.93	0.12	56,56,56,56	0
58	MG	1A	4016	1/1	0.93	0.17	70,70,70,70	0
58	MG	2a	1757	1/1	0.93	0.16	57,57,57,57	0
58	MG	1A	3646	1/1	0.93	0.10	26,26,26,26	0
58	MG	1x	112	1/1	0.93	0.08	71,71,71,71	0
58	MG	1A	3878	1/1	0.93	0.07	81,81,81,81	0
58	MG	2A	3824	1/1	0.93	0.23	68,68,68,68	0
58	MG	2A	3585	1/1	0.93	0.10	49,49,49,49	0
58	MG	1A	3756	1/1	0.93	0.12	57,57,57,57	0
58	MG	2A	3001	1/1	0.93	0.36	69,69,69,69	0
58	MG	1A	3883	1/1	0.93	0.08	44,44,44,44	0
58	MG	2A	3195	1/1	0.93	0.33	51,51,51,51	0
58	MG	1A	3050	1/1	0.93	0.11	58,58,58,58	0
58	MG	1A	3093	1/1	0.93	0.16	71,71,71,71	0
58	MG	1A	3760	1/1	0.93	0.15	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3450	1/1	0.93	0.12	56,56,56,56	0
58	MG	2A	3596	1/1	0.93	0.10	83,83,83,83	0
58	MG	1A	3530	1/1	0.93	0.20	46,46,46,46	0
58	MG	2A	3011	1/1	0.93	0.12	61,61,61,61	0
58	MG	2A	3015	1/1	0.93	0.13	52,52,52,52	0
58	MG	1A	3531	1/1	0.93	0.19	60,60,60,60	0
58	MG	2A	3018	1/1	0.93	0.13	43,43,43,43	0
58	MG	1A	3771	1/1	0.93	0.07	54,54,54,54	0
58	MG	2A	3210	1/1	0.93	0.16	64,64,64,64	0
58	MG	1A	3133	1/1	0.93	0.11	52,52,52,52	0
58	MG	1A	3053	1/1	0.93	0.25	51,51,51,51	0
58	MG	2A	3214	1/1	0.93	0.13	61,61,61,61	0
58	MG	2A	3027	1/1	0.93	0.29	62,62,62,62	0
58	MG	1A	3774	1/1	0.93	0.23	54,54,54,54	0
58	MG	2D	301	1/1	0.93	0.19	51,51,51,51	0
58	MG	2A	3613	1/1	0.93	0.14	67,67,67,67	0
58	MG	2A	3616	1/1	0.93	0.12	41,41,41,41	0
58	MG	2A	3374	1/1	0.93	0.26	65,65,65,65	0
58	MG	2E	304	1/1	0.93	0.10	45,45,45,45	0
58	MG	1A	3535	1/1	0.93	0.34	53,53,53,53	0
58	MG	2A	3037	1/1	0.93	0.14	56,56,56,56	0
58	MG	2E	307	1/1	0.93	0.12	53,53,53,53	0
58	MG	2E	308	1/1	0.93	0.15	75,75,75,75	0
58	MG	1A	3390	1/1	0.93	0.15	63,63,63,63	0
58	MG	1A	3020	1/1	0.93	0.11	54,54,54,54	0
58	MG	2A	3040	1/1	0.93	0.25	77,77,77,77	0
58	MG	1A	4048	1/1	0.93	0.13	52,52,52,52	0
58	MG	2F	305	1/1	0.93	0.13	60,60,60,60	0
58	MG	2a	1812	1/1	0.93	0.09	53,53,53,53	0
58	MG	2F	306	1/1	0.93	0.13	54,54,54,54	0
58	MG	2a	1816	1/1	0.93	0.17	83,83,83,83	0
58	MG	2F	307	1/1	0.93	0.28	55,55,55,55	0
58	MG	2a	1818	1/1	0.93	0.11	67,67,67,67	0
58	MG	2A	3042	1/1	0.93	0.15	51,51,51,51	0
58	MG	1A	4050	1/1	0.93	0.12	66,66,66,66	0
58	MG	1A	3343	1/1	0.93	0.18	46,46,46,46	0
58	MG	1a	1714	1/1	0.93	0.12	59,59,59,59	0
58	MG	2P	202	1/1	0.93	0.11	75,75,75,75	0
58	MG	1A	4052	1/1	0.93	0.10	58,58,58,58	0
58	MG	1A	3300	1/1	0.93	0.16	58,58,58,58	0
58	MG	2a	1828	1/1	0.93	0.13	69,69,69,69	0
58	MG	1a	1718	1/1	0.93	0.13	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3399	1/1	0.93	0.21	54,54,54,54	0
58	MG	2U	201	1/1	0.93	0.20	57,57,57,57	0
58	MG	1A	3139	1/1	0.93	0.19	49,49,49,49	0
58	MG	2A	3234	1/1	0.93	0.11	72,72,72,72	0
58	MG	2A	3402	1/1	0.93	0.15	77,77,77,77	0
58	MG	1A	3401	1/1	0.93	0.12	60,60,60,60	0
58	MG	1A	3548	1/1	0.93	0.45	69,69,69,69	0
58	MG	2e	202	1/1	0.93	0.12	84,84,84,84	0
58	MG	2A	3641	1/1	0.93	0.14	45,45,45,45	0
58	MG	2I	101	1/1	0.93	0.35	56,56,56,56	0
58	MG	1A	3911	1/1	0.93	0.14	55,55,55,55	0
58	MG	1A	3671	1/1	0.93	0.08	52,52,52,52	0
58	MG	25	102	1/1	0.93	0.14	60,60,60,60	0
58	MG	2n	102	1/1	0.93	0.08	79,79,79,79	0
58	MG	1A	3099	1/1	0.93	0.29	46,46,46,46	0
58	MG	2A	3645	1/1	0.93	0.07	81,81,81,81	0
58	MG	1Z	301	1/1	0.93	0.09	64,64,64,64	0
58	MG	2A	3647	1/1	0.93	0.12	66,66,66,66	0
58	MG	1A	4071	1/1	0.93	0.16	65,65,65,65	0
58	MG	10	104	1/1	0.93	0.11	49,49,49,49	0
58	MG	2A	3416	1/1	0.93	0.22	66,66,66,66	0
58	MG	2A	3420	1/1	0.93	0.13	27,27,27,27	0
58	MG	2a	1605	1/1	0.93	0.28	75,75,75,75	0
58	MG	2A	3654	1/1	0.93	0.11	66,66,66,66	0
58	MG	2A	3655	1/1	0.93	0.11	59,59,59,59	0
58	MG	10	105	1/1	0.93	0.28	62,62,62,62	0
58	MG	1A	3468	1/1	0.93	0.30	57,57,57,57	0
58	MG	1A	3552	1/1	0.93	0.11	43,43,43,43	0
58	MG	2A	3433	1/1	0.93	0.15	70,70,70,70	0
58	MG	1A	4076	1/1	0.93	0.27	41,41,41,41	0
58	MG	2A	3663	1/1	0.93	0.10	65,65,65,65	0
58	MG	1A	3463	1/1	0.94	0.16	45,45,45,45	0
58	MG	26	101	1/1	0.94	0.29	68,68,68,68	0
58	MG	2A	3169	1/1	0.94	0.12	64,64,64,64	0
58	MG	2A	3361	1/1	0.94	0.18	63,63,63,63	0
58	MG	1a	1814	1/1	0.94	0.11	66,66,66,66	0
58	MG	2A	3363	1/1	0.94	0.17	70,70,70,70	0
58	MG	2A	3364	1/1	0.94	0.36	51,51,51,51	0
58	MG	28	103	1/1	0.94	0.23	56,56,56,56	0
58	MG	2a	1601	1/1	0.94	0.10	62,62,62,62	0
58	MG	1A	3320	1/1	0.94	0.19	51,51,51,51	0
58	MG	1A	3322	1/1	0.94	0.16	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3080	1/1	0.94	0.28	45,45,45,45	0
58	MG	1A	3574	1/1	0.94	0.12	56,56,56,56	0
58	MG	1A	3819	1/1	0.94	0.15	41,41,41,41	0
58	MG	1A	3821	1/1	0.94	0.34	43,43,43,43	0
58	MG	1A	3576	1/1	0.94	0.09	59,59,59,59	0
58	MG	2A	3377	1/1	0.94	0.13	80,80,80,80	0
58	MG	1A	3959	1/1	0.94	0.10	53,53,53,53	0
58	MG	2A	3379	1/1	0.94	0.36	57,57,57,57	0
58	MG	1a	1635	1/1	0.94	0.15	55,55,55,55	0
58	MG	1A	3190	1/1	0.94	0.08	44,44,44,44	0
58	MG	1B	209	1/1	0.94	0.11	49,49,49,49	0
58	MG	1A	3193	1/1	0.94	0.15	43,43,43,43	0
58	MG	2A	3648	1/1	0.94	0.23	57,57,57,57	0
58	MG	1k	3100	1/1	0.94	0.16	55,55,55,55	0
58	MG	1B	211	1/1	0.94	0.12	60,60,60,60	0
58	MG	1A	3472	1/1	0.94	0.30	39,39,39,39	0
58	MG	1a	1641	1/1	0.94	0.17	69,69,69,69	0
58	MG	2A	3391	1/1	0.94	0.12	55,55,55,55	0
58	MG	1A	3827	1/1	0.94	0.06	39,39,39,39	0
58	MG	1r	101	1/1	0.94	0.07	81,81,81,81	0
58	MG	1A	3710	1/1	0.94	0.07	34,34,34,34	0
58	MG	2A	3192	1/1	0.94	0.38	56,56,56,56	0
58	MG	2A	3396	1/1	0.94	0.13	72,72,72,72	0
58	MG	1A	3255	1/1	0.94	0.08	54,54,54,54	0
58	MG	1A	3051	1/1	0.94	0.10	53,53,53,53	0
58	MG	1A	3715	1/1	0.94	0.12	35,35,35,35	0
58	MG	1A	3833	1/1	0.94	0.09	39,39,39,39	0
58	MG	2A	3404	1/1	0.94	0.18	63,63,63,63	0
58	MG	1A	3593	1/1	0.94	0.07	35,35,35,35	0
58	MG	1A	3395	1/1	0.94	0.12	52,52,52,52	0
58	MG	2A	3669	1/1	0.94	0.09	46,46,46,46	0
58	MG	1B	224	1/1	0.94	0.17	60,60,60,60	0
58	MG	1B	226	1/1	0.94	0.12	63,63,63,63	0
58	MG	2A	3203	1/1	0.94	0.17	49,49,49,49	0
58	MG	1B	227	1/1	0.94	0.10	56,56,56,56	0
58	MG	1A	3976	1/1	0.94	0.14	52,52,52,52	0
58	MG	1A	3196	1/1	0.94	0.12	47,47,47,47	0
58	MG	1a	1660	1/1	0.94	0.14	70,70,70,70	0
58	MG	2A	3419	1/1	0.94	0.17	58,58,58,58	0
58	MG	1A	3105	1/1	0.94	0.07	40,40,40,40	0
58	MG	1x	105	1/1	0.94	0.21	62,62,62,62	0
58	MG	2A	3422	1/1	0.94	0.21	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1652	1/1	0.94	0.10	54,54,54,54	0
58	MG	1A	3399	1/1	0.94	0.09	61,61,61,61	0
58	MG	2A	3429	1/1	0.94	0.10	58,58,58,58	0
58	MG	1A	3725	1/1	0.94	0.07	26,26,26,26	0
58	MG	1x	108	1/1	0.94	0.17	32,32,32,32	0
58	MG	2A	3215	1/1	0.94	0.13	67,67,67,67	0
58	MG	2A	3436	1/1	0.94	0.11	46,46,46,46	0
58	MG	2A	3437	1/1	0.94	0.12	64,64,64,64	0
58	MG	1A	3982	1/1	0.94	0.15	53,53,53,53	0
58	MG	1a	1667	1/1	0.94	0.31	71,71,71,71	0
58	MG	1A	3198	1/1	0.94	0.13	45,45,45,45	0
58	MG	2A	3701	1/1	0.94	0.13	59,59,59,59	0
58	MG	1a	1669	1/1	0.94	0.09	47,47,47,47	0
58	MG	1A	3140	1/1	0.94	0.20	37,37,37,37	0
58	MG	1D	308	1/1	0.94	0.17	52,52,52,52	0
58	MG	1A	3404	1/1	0.94	0.14	70,70,70,70	0
58	MG	2A	3446	1/1	0.94	0.11	48,48,48,48	0
58	MG	2A	3707	1/1	0.94	0.12	69,69,69,69	0
58	MG	1A	3275	1/1	0.94	0.18	54,54,54,54	0
58	MG	1a	1674	1/1	0.94	0.39	66,66,66,66	0
58	MG	1a	1675	1/1	0.94	0.26	64,64,64,64	0
58	MG	1A	3988	1/1	0.94	0.06	45,45,45,45	0
58	MG	2A	3713	1/1	0.94	0.07	62,62,62,62	0
58	MG	1A	3992	1/1	0.94	0.09	31,31,31,31	0
58	MG	2A	3453	1/1	0.94	0.16	55,55,55,55	0
58	MG	1A	3141	1/1	0.94	0.22	46,46,46,46	0
58	MG	2a	1680	1/1	0.94	0.15	57,57,57,57	0
58	MG	2A	3010	1/1	0.94	0.12	60,60,60,60	0
58	MG	1A	3850	1/1	0.94	0.15	40,40,40,40	0
58	MG	2A	3463	1/1	0.94	0.14	40,40,40,40	0
58	MG	2A	3721	1/1	0.94	0.09	41,41,41,41	0
58	MG	2A	3014	1/1	0.94	0.12	48,48,48,48	0
58	MG	1A	3202	1/1	0.94	0.18	57,57,57,57	0
58	MG	2A	3724	1/1	0.94	0.11	49,49,49,49	0
58	MG	2a	1690	1/1	0.94	0.11	73,73,73,73	0
58	MG	2A	3469	1/1	0.94	0.10	59,59,59,59	0
58	MG	1A	3106	1/1	0.94	0.23	56,56,56,56	0
58	MG	1A	3341	1/1	0.94	0.21	43,43,43,43	0
58	MG	1A	3144	1/1	0.94	0.15	42,42,42,42	0
58	MG	1A	3858	1/1	0.94	0.15	39,39,39,39	0
58	MG	1A	4002	1/1	0.94	0.06	21,21,21,21	0
58	MG	2a	1697	1/1	0.94	0.14	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3738	1/1	0.94	0.08	61,61,61,61	0
58	MG	1A	3211	1/1	0.94	0.17	49,49,49,49	0
58	MG	1A	3145	1/1	0.94	0.18	44,44,44,44	0
58	MG	1A	3629	1/1	0.94	0.16	69,69,69,69	0
58	MG	2A	3032	1/1	0.94	0.19	53,53,53,53	0
58	MG	2A	3746	1/1	0.94	0.10	39,39,39,39	0
58	MG	2A	3247	1/1	0.94	0.20	70,70,70,70	0
58	MG	1A	3284	1/1	0.94	0.10	61,61,61,61	0
58	MG	1H	201	1/1	0.94	0.23	70,70,70,70	0
58	MG	1A	3418	1/1	0.94	0.11	52,52,52,52	0
58	MG	1A	3005	1/1	0.94	0.14	45,45,45,45	0
58	MG	1A	3110	1/1	0.94	0.10	45,45,45,45	0
58	MG	2A	3491	1/1	0.94	0.19	70,70,70,70	0
58	MG	2A	3756	1/1	0.94	0.14	50,50,50,50	0
58	MG	2A	3759	1/1	0.94	0.09	72,72,72,72	0
58	MG	1A	3350	1/1	0.94	0.11	50,50,50,50	0
58	MG	1O	202	1/1	0.94	0.21	52,52,52,52	0
58	MG	1A	3113	1/1	0.94	0.20	51,51,51,51	0
58	MG	1A	3223	1/1	0.94	0.24	59,59,59,59	0
58	MG	1A	3758	1/1	0.94	0.14	57,57,57,57	0
58	MG	1A	3644	1/1	0.94	0.09	40,40,40,40	0
58	MG	1A	3156	1/1	0.94	0.15	47,47,47,47	0
58	MG	1A	4022	1/1	0.94	0.14	62,62,62,62	0
58	MG	1Q	206	1/1	0.94	0.16	57,57,57,57	0
58	MG	1Q	207	1/1	0.94	0.10	50,50,50,50	0
58	MG	1A	3357	1/1	0.94	0.21	50,50,50,50	0
58	MG	2a	1727	1/1	0.94	0.07	82,82,82,82	0
58	MG	1A	3515	1/1	0.94	0.19	42,42,42,42	0
58	MG	1A	3884	1/1	0.94	0.06	66,66,66,66	0
58	MG	1A	3764	1/1	0.94	0.08	44,44,44,44	0
58	MG	1A	3767	1/1	0.94	0.10	31,31,31,31	0
58	MG	2A	3060	1/1	0.94	0.13	55,55,55,55	0
58	MG	2A	3061	1/1	0.94	0.11	60,60,60,60	0
58	MG	1A	3769	1/1	0.94	0.09	42,42,42,42	0
58	MG	1A	3229	1/1	0.94	0.10	47,47,47,47	0
58	MG	2A	3064	1/1	0.94	0.14	47,47,47,47	0
58	MG	1A	3233	1/1	0.94	0.18	50,50,50,50	0
58	MG	1A	3893	1/1	0.94	0.10	56,56,56,56	0
58	MG	1A	3055	1/1	0.94	0.12	54,54,54,54	0
58	MG	2a	1748	1/1	0.94	0.17	83,83,83,83	0
58	MG	2A	3523	1/1	0.94	0.08	47,47,47,47	0
58	MG	1A	3236	1/1	0.94	0.31	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3790	1/1	0.94	0.10	53,53,53,53	0
58	MG	2A	3791	1/1	0.94	0.16	66,66,66,66	0
58	MG	2A	3792	1/1	0.94	0.11	66,66,66,66	0
58	MG	2A	3072	1/1	0.94	0.17	54,54,54,54	0
58	MG	1U	210	1/1	0.94	0.15	33,33,33,33	0
58	MG	1A	3526	1/1	0.94	0.21	54,54,54,54	0
58	MG	1A	4045	1/1	0.94	0.15	68,68,68,68	0
58	MG	1a	1727	1/1	0.94	0.10	44,44,44,44	0
58	MG	2A	3078	1/1	0.94	0.13	59,59,59,59	0
58	MG	1V	203	1/1	0.94	0.29	48,48,48,48	0
58	MG	1A	3775	1/1	0.94	0.19	63,63,63,63	0
58	MG	2A	3535	1/1	0.94	0.15	59,59,59,59	0
58	MG	2A	3536	1/1	0.94	0.11	47,47,47,47	0
58	MG	1A	3007	1/1	0.94	0.11	45,45,45,45	0
58	MG	2A	3811	1/1	0.94	0.09	50,50,50,50	0
58	MG	2a	1769	1/1	0.94	0.16	64,64,64,64	0
58	MG	1A	3777	1/1	0.94	0.11	60,60,60,60	0
58	MG	2A	3542	1/1	0.94	0.08	51,51,51,51	0
58	MG	1A	3901	1/1	0.94	0.08	52,52,52,52	0
58	MG	1A	3299	1/1	0.94	0.06	36,36,36,36	0
58	MG	2A	3293	1/1	0.94	0.11	60,60,60,60	0
58	MG	2A	3817	1/1	0.94	0.09	78,78,78,78	0
58	MG	1A	3435	1/1	0.94	0.19	56,56,56,56	0
58	MG	2A	3087	1/1	0.94	0.12	64,64,64,64	0
58	MG	1A	3370	1/1	0.94	0.10	49,49,49,49	0
58	MG	1A	3121	1/1	0.94	0.11	71,71,71,71	0
58	MG	2A	3822	1/1	0.94	0.14	56,56,56,56	0
58	MG	1A	3438	1/1	0.94	0.16	58,58,58,58	0
58	MG	1A	3666	1/1	0.94	0.22	55,55,55,55	0
58	MG	2A	3093	1/1	0.94	0.14	64,64,64,64	0
58	MG	1a	1745	1/1	0.94	0.08	60,60,60,60	0
58	MG	2a	1788	1/1	0.94	0.15	72,72,72,72	0
58	MG	1A	4065	1/1	0.94	0.07	28,28,28,28	0
58	MG	1A	4066	1/1	0.94	0.09	69,69,69,69	0
58	MG	10	107	1/1	0.94	0.10	63,63,63,63	0
58	MG	10	108	1/1	0.94	0.09	49,49,49,49	0
58	MG	1A	3122	1/1	0.94	0.17	54,54,54,54	0
58	MG	2a	1796	1/1	0.94	0.15	75,75,75,75	0
58	MG	1A	3441	1/1	0.94	0.17	46,46,46,46	0
58	MG	1a	1753	1/1	0.94	0.11	63,63,63,63	0
58	MG	1A	4069	1/1	0.94	0.10	54,54,54,54	0
58	MG	1A	3124	1/1	0.94	0.11	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3915	1/1	0.94	0.16	66,66,66,66	0
58	MG	2A	3572	1/1	0.94	0.12	67,67,67,67	0
58	MG	2A	3112	1/1	0.94	0.11	54,54,54,54	0
58	MG	1A	3444	1/1	0.94	0.10	58,58,58,58	0
58	MG	2A	3114	1/1	0.94	0.28	65,65,65,65	0
58	MG	15	106	1/1	0.94	0.24	44,44,44,44	0
58	MG	1A	3445	1/1	0.94	0.14	54,54,54,54	0
58	MG	2A	3120	1/1	0.94	0.25	51,51,51,51	0
58	MG	16	101	1/1	0.94	0.10	67,67,67,67	0
58	MG	2B	218	1/1	0.94	0.11	87,87,87,87	0
58	MG	1A	3375	1/1	0.94	0.14	53,53,53,53	0
58	MG	1a	1764	1/1	0.94	0.10	73,73,73,73	0
58	MG	17	101	1/1	0.94	0.13	42,42,42,42	0
58	MG	17	104	1/1	0.94	0.14	67,67,67,67	0
58	MG	2A	3129	1/1	0.94	0.15	45,45,45,45	0
58	MG	2A	3586	1/1	0.94	0.18	55,55,55,55	0
58	MG	1A	3243	1/1	0.94	0.17	56,56,56,56	0
58	MG	2a	1826	1/1	0.94	0.19	58,58,58,58	0
58	MG	18	103	1/1	0.94	0.15	60,60,60,60	0
58	MG	1A	3448	1/1	0.94	0.24	59,59,59,59	0
58	MG	2a	1830	1/1	0.94	0.12	79,79,79,79	0
58	MG	2a	1831	1/1	0.94	0.25	74,74,74,74	0
58	MG	2A	3134	1/1	0.94	0.20	47,47,47,47	0
58	MG	1a	1772	1/1	0.94	0.10	70,70,70,70	0
58	MG	2E	309	1/1	0.94	0.13	77,77,77,77	0
58	MG	1a	1775	1/1	0.94	0.08	66,66,66,66	0
58	MG	2a	1839	1/1	0.94	0.15	70,70,70,70	0
58	MG	1A	3923	1/1	0.94	0.07	77,77,77,77	0
58	MG	1A	3244	1/1	0.94	0.12	31,31,31,31	0
58	MG	1A	3925	1/1	0.94	0.13	73,73,73,73	0
58	MG	1A	3047	1/1	0.94	0.18	35,35,35,35	0
58	MG	2A	3143	1/1	0.94	0.11	43,43,43,43	0
58	MG	1A	4087	1/1	0.94	0.18	65,65,65,65	0
58	MG	1a	1787	1/1	0.94	0.08	83,83,83,83	0
58	MG	1A	4088	1/1	0.94	0.17	43,43,43,43	0
58	MG	1A	3379	1/1	0.94	0.10	54,54,54,54	0
58	MG	1a	1792	1/1	0.94	0.07	56,56,56,56	0
58	MG	1A	3380	1/1	0.94	0.23	49,49,49,49	0
58	MG	2p	101	1/1	0.94	0.34	76,76,76,76	0
58	MG	2A	3608	1/1	0.94	0.12	61,61,61,61	0
58	MG	1A	3684	1/1	0.94	0.08	60,60,60,60	0
58	MG	2R	202	1/1	0.94	0.15	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3554	1/1	0.94	0.12	36,36,36,36	0
58	MG	1A	3455	1/1	0.94	0.23	35,35,35,35	0
58	MG	1A	3935	1/1	0.94	0.11	53,53,53,53	0
58	MG	1a	1801	1/1	0.94	0.12	64,64,64,64	0
58	MG	1A	3457	1/1	0.94	0.23	45,45,45,45	0
58	MG	2V	202	1/1	0.94	0.18	67,67,67,67	0
58	MG	1A	3009	1/1	0.94	0.07	27,27,27,27	0
58	MG	2X	101	1/1	0.94	0.07	71,71,71,71	0
58	MG	1a	1616	1/1	0.94	0.08	70,70,70,70	0
58	MG	1A	3041	1/1	0.94	0.10	41,41,41,41	0
58	MG	1A	3074	1/1	0.94	0.15	61,61,61,61	0
58	MG	1A	3077	1/1	0.94	0.30	53,53,53,53	0
58	MG	2A	3165	1/1	0.94	0.28	68,68,68,68	0
58	MG	1A	3945	1/1	0.94	0.07	58,58,58,58	0
58	MG	1A	3516	1/1	0.95	0.19	39,39,39,39	0
58	MG	1A	3407	1/1	0.95	0.17	47,47,47,47	0
58	MG	1A	3789	1/1	0.95	0.08	70,70,70,70	0
58	MG	1U	205	1/1	0.95	0.14	54,54,54,54	0
58	MG	1A	3408	1/1	0.95	0.12	54,54,54,54	0
58	MG	1A	3108	1/1	0.95	0.15	40,40,40,40	0
58	MG	1m	3001	1/1	0.95	0.08	66,66,66,66	0
58	MG	1A	4099	1/1	0.95	0.12	56,56,56,56	0
58	MG	2A	3514	1/1	0.95	0.15	48,48,48,48	0
58	MG	1n	102	1/1	0.95	0.17	70,70,70,70	0
58	MG	2a	1647	1/1	0.95	0.23	74,74,74,74	0
58	MG	1A	3060	1/1	0.95	0.28	56,56,56,56	0
58	MG	2A	3734	1/1	0.95	0.07	71,71,71,71	0
58	MG	1A	3523	1/1	0.95	0.10	56,56,56,56	0
58	MG	1A	3525	1/1	0.95	0.13	48,48,48,48	0
58	MG	1A	4105	1/1	0.95	0.08	40,40,40,40	0
58	MG	1A	3083	1/1	0.95	0.18	49,49,49,49	0
58	MG	1A	3616	1/1	0.95	0.14	44,44,44,44	0
58	MG	1A	3280	1/1	0.95	0.13	52,52,52,52	0
58	MG	1A	3461	1/1	0.95	0.11	72,72,72,72	0
58	MG	1X	106	1/1	0.95	0.11	61,61,61,61	0
58	MG	1A	3997	1/1	0.95	0.13	66,66,66,66	0
58	MG	1A	3094	1/1	0.95	0.06	36,36,36,36	0
58	MG	1A	3622	1/1	0.95	0.13	31,31,31,31	0
58	MG	10	102	1/1	0.95	0.11	59,59,59,59	0
58	MG	1A	3031	1/1	0.95	0.14	36,36,36,36	0
58	MG	1A	3016	1/1	0.95	0.12	57,57,57,57	0
58	MG	10	106	1/1	0.95	0.14	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3201	1/1	0.95	0.08	45,45,45,45	0
58	MG	1B	206	1/1	0.95	0.10	52,52,52,52	0
58	MG	2A	3757	1/1	0.95	0.10	54,54,54,54	0
58	MG	2A	3758	1/1	0.95	0.11	54,54,54,54	0
58	MG	1A	3718	1/1	0.95	0.08	60,60,60,60	0
58	MG	1B	208	1/1	0.95	0.18	68,68,68,68	0
58	MG	2A	3538	1/1	0.95	0.12	57,57,57,57	0
58	MG	2A	3167	1/1	0.95	0.09	42,42,42,42	0
58	MG	2A	3763	1/1	0.95	0.11	65,65,65,65	0
58	MG	10	111	1/1	0.95	0.10	60,60,60,60	0
58	MG	2A	3543	1/1	0.95	0.09	54,54,54,54	0
58	MG	1A	3534	1/1	0.95	0.26	43,43,43,43	0
58	MG	11	101	1/1	0.95	0.40	44,44,44,44	0
58	MG	2A	3547	1/1	0.95	0.11	58,58,58,58	0
58	MG	11	103	1/1	0.95	0.07	40,40,40,40	0
58	MG	2a	1683	1/1	0.95	0.17	65,65,65,65	0
58	MG	1A	3634	1/1	0.95	0.06	41,41,41,41	0
58	MG	1A	3467	1/1	0.95	0.07	57,57,57,57	0
58	MG	12	102	1/1	0.95	0.08	54,54,54,54	0
58	MG	2A	3002	1/1	0.95	0.48	71,71,71,71	0
58	MG	13	103	1/1	0.95	0.13	57,57,57,57	0
58	MG	2A	3338	1/1	0.95	0.29	64,64,64,64	0
58	MG	1A	3076	1/1	0.95	0.23	37,37,37,37	0
58	MG	15	102	1/1	0.95	0.20	47,47,47,47	0
58	MG	2A	3778	1/1	0.95	0.10	74,74,74,74	0
58	MG	2A	3341	1/1	0.95	0.29	68,68,68,68	0
58	MG	1A	3138	1/1	0.95	0.11	41,41,41,41	0
58	MG	1A	3639	1/1	0.95	0.11	36,36,36,36	0
58	MG	1A	3914	1/1	0.95	0.13	62,62,62,62	0
58	MG	1A	3729	1/1	0.95	0.11	33,33,33,33	0
58	MG	2A	3564	1/1	0.95	0.16	63,63,63,63	0
58	MG	2A	3786	1/1	0.95	0.13	62,62,62,62	0
58	MG	2A	3346	1/1	0.95	0.30	64,64,64,64	0
58	MG	1A	3206	1/1	0.95	0.14	53,53,53,53	0
58	MG	2A	3567	1/1	0.95	0.13	69,69,69,69	0
58	MG	17	102	1/1	0.95	0.28	37,37,37,37	0
58	MG	1A	3642	1/1	0.95	0.10	49,49,49,49	0
58	MG	2A	3016	1/1	0.95	0.27	54,54,54,54	0
58	MG	2A	3188	1/1	0.95	0.22	49,49,49,49	0
58	MG	1A	3247	1/1	0.95	0.17	37,37,37,37	0
58	MG	2A	3796	1/1	0.95	0.07	56,56,56,56	0
58	MG	1A	3423	1/1	0.95	0.15	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3798	1/1	0.95	0.08	71,71,71,71	0
58	MG	1A	3739	1/1	0.95	0.07	51,51,51,51	0
58	MG	1B	225	1/1	0.95	0.10	59,59,59,59	0
58	MG	1a	1732	1/1	0.95	0.07	56,56,56,56	0
58	MG	1A	3921	1/1	0.95	0.07	66,66,66,66	0
58	MG	1A	3180	1/1	0.95	0.24	49,49,49,49	0
58	MG	2A	3029	1/1	0.95	0.25	52,52,52,52	0
58	MG	1A	3547	1/1	0.95	0.28	57,57,57,57	0
58	MG	2A	3031	1/1	0.95	0.14	49,49,49,49	0
58	MG	1a	1738	1/1	0.95	0.08	59,59,59,59	0
58	MG	2A	3201	1/1	0.95	0.15	46,46,46,46	0
58	MG	2A	3034	1/1	0.95	0.16	44,44,44,44	0
58	MG	1A	3210	1/1	0.95	0.19	42,42,42,42	0
58	MG	1A	3181	1/1	0.95	0.14	39,39,39,39	0
58	MG	1B	231	1/1	0.95	0.10	82,82,82,82	0
58	MG	2a	1729	1/1	0.95	0.08	74,74,74,74	0
58	MG	1A	3652	1/1	0.95	0.06	31,31,31,31	0
58	MG	1A	4032	1/1	0.95	0.12	59,59,59,59	0
58	MG	2A	3208	1/1	0.95	0.11	60,60,60,60	0
58	MG	1a	1609	1/1	0.95	0.07	62,62,62,62	0
58	MG	2A	3594	1/1	0.95	0.11	56,56,56,56	0
58	MG	2A	3043	1/1	0.95	0.10	34,34,34,34	0
58	MG	2A	3211	1/1	0.95	0.19	51,51,51,51	0
58	MG	2a	1741	1/1	0.95	0.14	81,81,81,81	0
58	MG	2A	3597	1/1	0.95	0.08	35,35,35,35	0
58	MG	1A	4033	1/1	0.95	0.20	49,49,49,49	0
58	MG	2a	1745	1/1	0.95	0.10	76,76,76,76	0
58	MG	1A	3212	1/1	0.95	0.13	53,53,53,53	0
58	MG	1A	3183	1/1	0.95	0.09	53,53,53,53	0
58	MG	1D	301	1/1	0.95	0.10	53,53,53,53	0
58	MG	2A	3216	1/1	0.95	0.12	70,70,70,70	0
58	MG	1D	304	1/1	0.95	0.09	44,44,44,44	0
58	MG	2a	1752	1/1	0.95	0.12	57,57,57,57	0
58	MG	1A	3429	1/1	0.95	0.12	38,38,38,38	0
58	MG	2A	3050	1/1	0.95	0.12	57,57,57,57	0
58	MG	1A	3184	1/1	0.95	0.34	41,41,41,41	0
58	MG	1E	302	1/1	0.95	0.21	47,47,47,47	0
58	MG	1A	4041	1/1	0.95	0.09	41,41,41,41	0
58	MG	1A	4043	1/1	0.95	0.10	58,58,58,58	0
58	MG	1a	1758	1/1	0.95	0.13	70,70,70,70	0
58	MG	1A	3555	1/1	0.95	0.09	41,41,41,41	0
58	MG	2A	3614	1/1	0.95	0.12	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3839	1/1	0.95	0.08	34,34,34,34	0
58	MG	2A	3398	1/1	0.95	0.14	60,60,60,60	0
58	MG	1E	312	1/1	0.95	0.10	57,57,57,57	0
58	MG	1A	3186	1/1	0.95	0.21	40,40,40,40	0
58	MG	1F	301	1/1	0.95	0.14	43,43,43,43	0
58	MG	1a	1765	1/1	0.95	0.07	73,73,73,73	0
58	MG	1A	3256	1/1	0.95	0.13	39,39,39,39	0
58	MG	1A	3344	1/1	0.95	0.18	45,45,45,45	0
58	MG	2D	302	1/1	0.95	0.10	39,39,39,39	0
58	MG	2A	3066	1/1	0.95	0.07	55,55,55,55	0
58	MG	2D	306	1/1	0.95	0.25	64,64,64,64	0
58	MG	1A	3157	1/1	0.95	0.17	42,42,42,42	0
58	MG	1A	3560	1/1	0.95	0.09	43,43,43,43	0
58	MG	2A	3411	1/1	0.95	0.11	49,49,49,49	0
58	MG	2a	1777	1/1	0.95	0.28	67,67,67,67	0
58	MG	1A	3389	1/1	0.95	0.11	60,60,60,60	0
58	MG	2A	3238	1/1	0.95	0.35	76,76,76,76	0
58	MG	2a	1780	1/1	0.95	0.29	60,60,60,60	0
58	MG	1A	3189	1/1	0.95	0.20	41,41,41,41	0
58	MG	1A	4058	1/1	0.95	0.16	58,58,58,58	0
58	MG	1a	1776	1/1	0.95	0.11	60,60,60,60	0
58	MG	1A	3306	1/1	0.95	0.13	45,45,45,45	0
58	MG	1A	3950	1/1	0.95	0.06	27,27,27,27	0
58	MG	2A	3244	1/1	0.95	0.30	63,63,63,63	0
58	MG	2A	3245	1/1	0.95	0.23	59,59,59,59	0
58	MG	1a	1783	1/1	0.95	0.09	89,89,89,89	0
58	MG	1A	3026	1/1	0.95	0.29	35,35,35,35	0
58	MG	2A	3430	1/1	0.95	0.11	51,51,51,51	0
58	MG	1A	3765	1/1	0.95	0.07	30,30,30,30	0
58	MG	2A	3432	1/1	0.95	0.08	54,54,54,54	0
58	MG	1A	3394	1/1	0.95	0.13	59,59,59,59	0
58	MG	1N	201	1/1	0.95	0.16	41,41,41,41	0
58	MG	1A	3442	1/1	0.95	0.26	46,46,46,46	0
58	MG	1A	3856	1/1	0.95	0.13	49,49,49,49	0
58	MG	1a	1790	1/1	0.95	0.07	57,57,57,57	0
58	MG	2a	1803	1/1	0.95	0.07	77,77,77,77	0
58	MG	1a	1791	1/1	0.95	0.12	66,66,66,66	0
58	MG	1a	1647	1/1	0.95	0.09	53,53,53,53	0
58	MG	2A	3256	1/1	0.95	0.10	67,67,67,67	0
58	MG	2T	203	1/1	0.95	0.11	60,60,60,60	0
58	MG	1A	3349	1/1	0.95	0.25	40,40,40,40	0
58	MG	1A	3500	1/1	0.95	0.16	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3444	1/1	0.95	0.18	55,55,55,55	0
58	MG	1O	203	1/1	0.95	0.13	55,55,55,55	0
58	MG	2a	1814	1/1	0.95	0.08	76,76,76,76	0
58	MG	2A	3091	1/1	0.95	0.15	35,35,35,35	0
58	MG	2A	3660	1/1	0.95	0.19	71,71,71,71	0
58	MG	1O	204	1/1	0.95	0.13	57,57,57,57	0
58	MG	1A	3501	1/1	0.95	0.44	56,56,56,56	0
58	MG	1a	1800	1/1	0.95	0.06	71,71,71,71	0
58	MG	1A	3308	1/1	0.95	0.13	56,56,56,56	0
58	MG	2A	3096	1/1	0.95	0.15	63,63,63,63	0
58	MG	1P	202	1/1	0.95	0.32	38,38,38,38	0
58	MG	1a	1803	1/1	0.95	0.07	75,75,75,75	0
58	MG	1a	1804	1/1	0.95	0.08	63,63,63,63	0
58	MG	2A	3670	1/1	0.95	0.18	51,51,51,51	0
58	MG	1A	4075	1/1	0.95	0.26	35,35,35,35	0
58	MG	2A	3672	1/1	0.95	0.17	67,67,67,67	0
58	MG	2A	3462	1/1	0.95	0.13	52,52,52,52	0
58	MG	1A	3586	1/1	0.95	0.11	41,41,41,41	0
58	MG	1A	3262	1/1	0.95	0.17	60,60,60,60	0
58	MG	2A	3465	1/1	0.95	0.09	58,58,58,58	0
58	MG	2A	3107	1/1	0.95	0.16	45,45,45,45	0
58	MG	1a	1661	1/1	0.95	0.28	62,62,62,62	0
58	MG	2A	3684	1/1	0.95	0.10	56,56,56,56	0
58	MG	2A	3470	1/1	0.95	0.07	41,41,41,41	0
58	MG	1a	1662	1/1	0.95	0.29	66,66,66,66	0
58	MG	2A	3275	1/1	0.95	0.14	56,56,56,56	0
58	MG	1A	3588	1/1	0.95	0.10	27,27,27,27	0
58	MG	2A	3476	1/1	0.95	0.06	41,41,41,41	0
58	MG	2A	3111	1/1	0.95	0.14	63,63,63,63	0
58	MG	1A	3310	1/1	0.95	0.15	60,60,60,60	0
58	MG	2A	3279	1/1	0.95	0.31	59,59,59,59	0
58	MG	1A	3226	1/1	0.95	0.12	56,56,56,56	0
58	MG	1A	3970	1/1	0.95	0.07	53,53,53,53	0
58	MG	1a	1817	1/1	0.95	0.07	81,81,81,81	0
58	MG	2A	3117	1/1	0.95	0.13	52,52,52,52	0
58	MG	1A	3192	1/1	0.95	0.11	44,44,44,44	0
58	MG	2A	3285	1/1	0.95	0.12	62,62,62,62	0
58	MG	1A	3001	1/1	0.95	0.14	48,48,48,48	0
58	MG	1A	3600	1/1	0.95	0.10	51,51,51,51	0
58	MG	2A	3122	1/1	0.95	0.11	60,60,60,60	0
58	MG	1A	3691	1/1	0.95	0.12	33,33,33,33	0
58	MG	2A	3492	1/1	0.95	0.12	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3124	1/1	0.95	0.13	47,47,47,47	0
58	MG	2A	3125	1/1	0.95	0.19	71,71,71,71	0
58	MG	1A	3360	1/1	0.95	0.17	36,36,36,36	0
58	MG	1a	1823	1/1	0.95	0.09	69,69,69,69	0
58	MG	2A	3500	1/1	0.95	0.10	54,54,54,54	0
58	MG	1T	201	1/1	0.95	0.13	66,66,66,66	0
58	MG	2A	3502	1/1	0.95	0.16	56,56,56,56	0
58	MG	1A	3784	1/1	0.95	0.10	56,56,56,56	0
59	K	1A	3504	1/1	0.95	0.11	69,69,69,69	0
58	MG	1A	3316	1/1	0.95	0.11	49,49,49,49	0
58	MG	1X	101	1/1	0.96	0.23	50,50,50,50	0
58	MG	1A	3103	1/1	0.96	0.16	38,38,38,38	0
58	MG	1A	3104	1/1	0.96	0.14	40,40,40,40	0
58	MG	1A	3561	1/1	0.96	0.07	47,47,47,47	0
58	MG	1a	1711	1/1	0.96	0.29	60,60,60,60	0
58	MG	2a	1653	1/1	0.96	0.22	57,57,57,57	0
58	MG	1A	4097	1/1	0.96	0.06	44,44,44,44	0
58	MG	1Y	202	1/1	0.96	0.22	52,52,52,52	0
58	MG	1A	3966	1/1	0.96	0.08	61,61,61,61	0
58	MG	2A	3012	1/1	0.96	0.07	51,51,51,51	0
58	MG	1A	3062	1/1	0.96	0.27	61,61,61,61	0
58	MG	1A	3851	1/1	0.96	0.26	30,30,30,30	0
58	MG	1A	3563	1/1	0.96	0.08	30,30,30,30	0
58	MG	1a	1719	1/1	0.96	0.08	43,43,43,43	0
58	MG	1A	3564	1/1	0.96	0.06	41,41,41,41	0
58	MG	1A	3440	1/1	0.96	0.08	46,46,46,46	0
58	MG	2a	1664	1/1	0.96	0.24	47,47,47,47	0
58	MG	1A	3495	1/1	0.96	0.16	54,54,54,54	0
58	MG	1A	3662	1/1	0.96	0.06	19,19,19,19	0
58	MG	2A	3554	1/1	0.96	0.21	55,55,55,55	0
58	MG	2A	3024	1/1	0.96	0.08	56,56,56,56	0
58	MG	2A	3025	1/1	0.96	0.14	58,58,58,58	0
58	MG	1A	3762	1/1	0.96	0.27	36,36,36,36	0
58	MG	1A	3120	1/1	0.96	0.10	52,52,52,52	0
58	MG	1A	3978	1/1	0.96	0.07	52,52,52,52	0
58	MG	1A	3571	1/1	0.96	0.10	32,32,32,32	0
58	MG	2A	3199	1/1	0.96	0.14	57,57,57,57	0
58	MG	1A	3665	1/1	0.96	0.12	61,61,61,61	0
58	MG	2A	3563	1/1	0.96	0.18	70,70,70,70	0
58	MG	11	102	1/1	0.96	0.09	48,48,48,48	0
58	MG	2A	3033	1/1	0.96	0.09	50,50,50,50	0
58	MG	1A	3766	1/1	0.96	0.08	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3136	1/1	0.96	0.23	39,39,39,39	0
58	MG	1A	3768	1/1	0.96	0.06	39,39,39,39	0
58	MG	2A	3569	1/1	0.96	0.06	38,38,38,38	0
58	MG	12	101	1/1	0.96	0.08	51,51,51,51	0
58	MG	1a	1735	1/1	0.96	0.21	47,47,47,47	0
58	MG	2A	3369	1/1	0.96	0.20	58,58,58,58	0
58	MG	1A	3222	1/1	0.96	0.09	58,58,58,58	0
58	MG	2A	3784	1/1	0.96	0.06	77,77,77,77	0
58	MG	13	102	1/1	0.96	0.16	44,44,44,44	0
58	MG	1A	3137	1/1	0.96	0.17	39,39,39,39	0
58	MG	1A	3257	1/1	0.96	0.19	44,44,44,44	0
58	MG	2A	3375	1/1	0.96	0.33	57,57,57,57	0
58	MG	2A	3376	1/1	0.96	0.08	50,50,50,50	0
58	MG	1A	3162	1/1	0.96	0.16	44,44,44,44	0
58	MG	1A	3989	1/1	0.96	0.05	47,47,47,47	0
58	MG	15	107	1/1	0.96	0.12	41,41,41,41	0
58	MG	1A	3990	1/1	0.96	0.07	50,50,50,50	0
58	MG	2a	1698	1/1	0.96	0.19	55,55,55,55	0
58	MG	2A	3381	1/1	0.96	0.11	33,33,33,33	0
58	MG	2A	3584	1/1	0.96	0.15	65,65,65,65	0
58	MG	1A	3991	1/1	0.96	0.07	54,54,54,54	0
58	MG	1A	3874	1/1	0.96	0.07	44,44,44,44	0
58	MG	2A	3799	1/1	0.96	0.06	82,82,82,82	0
58	MG	1A	3579	1/1	0.96	0.06	24,24,24,24	0
58	MG	1A	3581	1/1	0.96	0.10	30,30,30,30	0
58	MG	1B	216	1/1	0.96	0.06	68,68,68,68	0
58	MG	2A	3388	1/1	0.96	0.07	38,38,38,38	0
58	MG	2A	3806	1/1	0.96	0.07	52,52,52,52	0
58	MG	1A	3582	1/1	0.96	0.13	60,60,60,60	0
58	MG	1A	3675	1/1	0.96	0.16	65,65,65,65	0
58	MG	2A	3809	1/1	0.96	0.06	65,65,65,65	0
58	MG	1A	3583	1/1	0.96	0.08	39,39,39,39	0
58	MG	1A	3400	1/1	0.96	0.22	39,39,39,39	0
58	MG	1A	3679	1/1	0.96	0.06	29,29,29,29	0
58	MG	1A	3886	1/1	0.96	0.07	51,51,51,51	0
58	MG	1A	3887	1/1	0.96	0.10	30,30,30,30	0
58	MG	1A	3507	1/1	0.96	0.21	34,34,34,34	0
58	MG	1A	3225	1/1	0.96	0.27	56,56,56,56	0
58	MG	1A	3033	1/1	0.96	0.09	47,47,47,47	0
58	MG	2A	3065	1/1	0.96	0.24	49,49,49,49	0
58	MG	1A	3403	1/1	0.96	0.13	57,57,57,57	0
58	MG	2A	3233	1/1	0.96	0.09	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3403	1/1	0.96	0.26	56,56,56,56	0
58	MG	2A	3067	1/1	0.96	0.16	37,37,37,37	0
58	MG	2a	1726	1/1	0.96	0.09	64,64,64,64	0
58	MG	1A	3352	1/1	0.96	0.10	58,58,58,58	0
58	MG	1A	3592	1/1	0.96	0.13	28,28,28,28	0
58	MG	2A	3408	1/1	0.96	0.08	66,66,66,66	0
58	MG	1A	3261	1/1	0.96	0.08	44,44,44,44	0
58	MG	1A	3896	1/1	0.96	0.12	58,58,58,58	0
58	MG	1A	3594	1/1	0.96	0.06	36,36,36,36	0
58	MG	2a	1734	1/1	0.96	0.10	71,71,71,71	0
58	MG	1A	3690	1/1	0.96	0.09	41,41,41,41	0
58	MG	1A	3454	1/1	0.96	0.21	60,60,60,60	0
58	MG	1A	3692	1/1	0.96	0.05	24,24,24,24	0
58	MG	1D	302	1/1	0.96	0.14	45,45,45,45	0
58	MG	2a	1740	1/1	0.96	0.05	66,66,66,66	0
58	MG	1a	1777	1/1	0.96	0.08	49,49,49,49	0
58	MG	2A	3417	1/1	0.96	0.13	70,70,70,70	0
58	MG	2A	3418	1/1	0.96	0.11	46,46,46,46	0
58	MG	1A	3599	1/1	0.96	0.09	41,41,41,41	0
58	MG	1D	306	1/1	0.96	0.24	42,42,42,42	0
58	MG	1D	307	1/1	0.96	0.12	55,55,55,55	0
58	MG	1A	3694	1/1	0.96	0.09	69,69,69,69	0
58	MG	2a	1749	1/1	0.96	0.12	66,66,66,66	0
58	MG	2A	3627	1/1	0.96	0.19	52,52,52,52	0
58	MG	2A	3424	1/1	0.96	0.11	54,54,54,54	0
58	MG	2A	3425	1/1	0.96	0.19	59,59,59,59	0
58	MG	1A	3168	1/1	0.96	0.12	43,43,43,43	0
58	MG	1D	311	1/1	0.96	0.13	60,60,60,60	0
58	MG	1A	3795	1/1	0.96	0.23	55,55,55,55	0
58	MG	1A	3456	1/1	0.96	0.14	36,36,36,36	0
58	MG	1A	3230	1/1	0.96	0.12	34,34,34,34	0
58	MG	2a	1758	1/1	0.96	0.12	76,76,76,76	0
58	MG	1A	3698	1/1	0.96	0.06	44,44,44,44	0
58	MG	1A	3195	1/1	0.96	0.09	27,27,27,27	0
58	MG	1A	3909	1/1	0.96	0.10	47,47,47,47	0
58	MG	2D	305	1/1	0.96	0.13	68,68,68,68	0
58	MG	1A	3313	1/1	0.96	0.13	44,44,44,44	0
58	MG	1A	3269	1/1	0.96	0.14	41,41,41,41	0
58	MG	1A	3913	1/1	0.96	0.12	53,53,53,53	0
58	MG	1a	1797	1/1	0.96	0.19	65,65,65,65	0
58	MG	1A	3315	1/1	0.96	0.12	66,66,66,66	0
58	MG	1F	309	1/1	0.96	0.14	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3271	1/1	0.96	0.18	37,37,37,37	0
58	MG	2A	3100	1/1	0.96	0.17	48,48,48,48	0
58	MG	1A	4039	1/1	0.96	0.06	32,32,32,32	0
58	MG	1A	3806	1/1	0.96	0.14	50,50,50,50	0
58	MG	2A	3103	1/1	0.96	0.24	54,54,54,54	0
58	MG	1A	3807	1/1	0.96	0.11	53,53,53,53	0
58	MG	1a	1644	1/1	0.96	0.15	62,62,62,62	0
58	MG	1A	3364	1/1	0.96	0.11	56,56,56,56	0
58	MG	1A	3274	1/1	0.96	0.17	50,50,50,50	0
58	MG	1A	3811	1/1	0.96	0.08	30,30,30,30	0
58	MG	1A	3318	1/1	0.96	0.18	54,54,54,54	0
58	MG	2A	3457	1/1	0.96	0.10	64,64,64,64	0
58	MG	1G	204	1/1	0.96	0.10	68,68,68,68	0
58	MG	1A	3169	1/1	0.96	0.12	27,27,27,27	0
58	MG	1A	4049	1/1	0.96	0.08	56,56,56,56	0
58	MG	2Q	201	1/1	0.96	0.09	63,63,63,63	0
58	MG	1a	1813	1/1	0.96	0.07	74,74,74,74	0
58	MG	1A	3107	1/1	0.96	0.27	32,32,32,32	0
58	MG	1a	1815	1/1	0.96	0.09	78,78,78,78	0
58	MG	1A	3123	1/1	0.96	0.11	44,44,44,44	0
58	MG	2A	3468	1/1	0.96	0.07	58,58,58,58	0
58	MG	2a	1791	1/1	0.96	0.06	62,62,62,62	0
58	MG	1A	3536	1/1	0.96	0.23	46,46,46,46	0
58	MG	2T	204	1/1	0.96	0.16	70,70,70,70	0
58	MG	1A	3324	1/1	0.96	0.12	46,46,46,46	0
58	MG	1A	3071	1/1	0.96	0.17	51,51,51,51	0
58	MG	2A	3472	1/1	0.96	0.09	46,46,46,46	0
58	MG	1A	4056	1/1	0.96	0.06	77,77,77,77	0
58	MG	1A	3628	1/1	0.96	0.07	30,30,30,30	0
58	MG	1A	3931	1/1	0.96	0.09	26,26,26,26	0
58	MG	2X	102	1/1	0.96	0.10	53,53,53,53	0
58	MG	1A	3239	1/1	0.96	0.12	47,47,47,47	0
58	MG	1A	3474	1/1	0.96	0.28	53,53,53,53	0
58	MG	2A	3677	1/1	0.96	0.09	59,59,59,59	0
58	MG	1A	4064	1/1	0.96	0.08	60,60,60,60	0
58	MG	1A	3052	1/1	0.96	0.10	44,44,44,44	0
58	MG	2A	3682	1/1	0.96	0.07	67,67,67,67	0
58	MG	2A	3683	1/1	0.96	0.05	64,64,64,64	0
58	MG	2A	3130	1/1	0.96	0.15	58,58,58,58	0
58	MG	1A	3241	1/1	0.96	0.21	60,60,60,60	0
58	MG	27	101	1/1	0.96	0.20	52,52,52,52	0
58	MG	1A	3546	1/1	0.96	0.13	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3143	1/1	0.96	0.10	49,49,49,49	0
58	MG	1f	201	1/1	0.96	0.13	51,51,51,51	0
58	MG	1A	3176	1/1	0.96	0.10	45,45,45,45	0
58	MG	2A	3488	1/1	0.96	0.16	40,40,40,40	0
58	MG	1R	202	1/1	0.96	0.08	31,31,31,31	0
58	MG	1A	3941	1/1	0.96	0.06	19,19,19,19	0
58	MG	1R	204	1/1	0.96	0.09	53,53,53,53	0
58	MG	1A	3127	1/1	0.96	0.24	34,34,34,34	0
58	MG	2A	3141	1/1	0.96	0.12	57,57,57,57	0
58	MG	1A	3178	1/1	0.96	0.20	46,46,46,46	0
58	MG	2A	3496	1/1	0.96	0.09	71,71,71,71	0
58	MG	2a	1608	1/1	0.96	0.26	66,66,66,66	0
58	MG	1A	4074	1/1	0.96	0.15	53,53,53,53	0
58	MG	1a	1677	1/1	0.96	0.21	56,56,56,56	0
58	MG	1A	3641	1/1	0.96	0.10	31,31,31,31	0
58	MG	1A	3551	1/1	0.96	0.09	33,33,33,33	0
58	MG	2a	1838	1/1	0.96	0.16	72,72,72,72	0
58	MG	1A	3288	1/1	0.96	0.09	35,35,35,35	0
58	MG	2A	3148	1/1	0.96	0.12	53,53,53,53	0
58	MG	1A	3949	1/1	0.96	0.06	39,39,39,39	0
58	MG	2A	3310	1/1	0.96	0.07	54,54,54,54	0
58	MG	1A	4079	1/1	0.96	0.17	36,36,36,36	0
58	MG	1A	3431	1/1	0.96	0.12	42,42,42,42	0
58	MG	1A	3102	1/1	0.96	0.18	35,35,35,35	0
58	MG	1A	4082	1/1	0.96	0.08	63,63,63,63	0
58	MG	1A	3953	1/1	0.96	0.06	32,32,32,32	0
58	MG	1U	206	1/1	0.96	0.19	45,45,45,45	0
58	MG	1U	207	1/1	0.96	0.28	41,41,41,41	0
58	MG	2A	3513	1/1	0.96	0.06	67,67,67,67	0
58	MG	1U	208	1/1	0.96	0.19	43,43,43,43	0
58	MG	1U	209	1/1	0.96	0.27	41,41,41,41	0
58	MG	1A	3146	1/1	0.96	0.09	49,49,49,49	0
58	MG	1A	4085	1/1	0.96	0.23	43,43,43,43	0
58	MG	2A	3163	1/1	0.96	0.19	65,65,65,65	0
58	MG	1U	213	1/1	0.96	0.16	39,39,39,39	0
58	MG	1A	3338	1/1	0.96	0.17	43,43,43,43	0
58	MG	1A	3648	1/1	0.96	0.08	37,37,37,37	0
58	MG	1a	1697	1/1	0.96	0.14	50,50,50,50	0
58	MG	2A	3729	1/1	0.96	0.05	71,71,71,71	0
58	MG	1V	206	1/1	0.96	0.29	60,60,60,60	0
58	MG	1A	3957	1/1	0.96	0.07	45,45,45,45	0
58	MG	2A	3170	1/1	0.96	0.06	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3330	1/1	0.96	0.16	55,55,55,55	0
58	MG	1A	3842	1/1	0.96	0.06	42,42,42,42	0
58	MG	1A	3112	1/1	0.96	0.17	45,45,45,45	0
58	MG	1W	204	1/1	0.96	0.16	44,44,44,44	0
58	MG	1A	3651	1/1	0.96	0.14	58,58,58,58	0
58	MG	1A	3249	1/1	0.96	0.08	36,36,36,36	0
60	ZN	24	501	1/1	0.96	0.10	126,126,126,126	0
58	MG	2A	3036	1/1	0.97	0.15	35,35,35,35	0
58	MG	1A	3023	1/1	0.97	0.17	38,38,38,38	0
58	MG	1A	3111	1/1	0.97	0.31	51,51,51,51	0
58	MG	1A	3063	1/1	0.97	0.07	35,35,35,35	0
58	MG	1B	205	1/1	0.97	0.08	62,62,62,62	0
58	MG	1A	3336	1/1	0.97	0.10	60,60,60,60	0
58	MG	1A	3042	1/1	0.97	0.06	36,36,36,36	0
58	MG	1A	3753	1/1	0.97	0.28	33,33,33,33	0
58	MG	2A	3383	1/1	0.97	0.07	49,49,49,49	0
58	MG	1A	3227	1/1	0.97	0.15	38,38,38,38	0
58	MG	1A	3466	1/1	0.97	0.15	30,30,30,30	0
58	MG	1a	1736	1/1	0.97	0.10	56,56,56,56	0
58	MG	1A	3867	1/1	0.97	0.14	45,45,45,45	0
58	MG	1A	3868	1/1	0.97	0.06	52,52,52,52	0
58	MG	1A	3115	1/1	0.97	0.14	35,35,35,35	0
58	MG	13	101	1/1	0.97	0.09	37,37,37,37	0
58	MG	1a	1741	1/1	0.97	0.06	59,59,59,59	0
58	MG	1a	1742	1/1	0.97	0.06	51,51,51,51	0
58	MG	1A	3116	1/1	0.97	0.25	37,37,37,37	0
58	MG	1A	3231	1/1	0.97	0.09	41,41,41,41	0
58	MG	2A	3787	1/1	0.97	0.07	65,65,65,65	0
58	MG	1A	3117	1/1	0.97	0.26	42,42,42,42	0
58	MG	15	101	1/1	0.97	0.32	38,38,38,38	0
58	MG	2A	3397	1/1	0.97	0.11	49,49,49,49	0
58	MG	2a	1684	1/1	0.97	0.14	51,51,51,51	0
58	MG	1B	217	1/1	0.97	0.16	59,59,59,59	0
58	MG	2A	3058	1/1	0.97	0.08	38,38,38,38	0
58	MG	15	103	1/1	0.97	0.27	37,37,37,37	0
58	MG	15	105	1/1	0.97	0.23	45,45,45,45	0
58	MG	1A	3286	1/1	0.97	0.09	42,42,42,42	0
58	MG	1A	3065	1/1	0.97	0.13	31,31,31,31	0
58	MG	1B	220	1/1	0.97	0.06	44,44,44,44	0
58	MG	1A	3066	1/1	0.97	0.09	17,17,17,17	0
58	MG	1A	3475	1/1	0.97	0.24	38,38,38,38	0
58	MG	1A	3289	1/1	0.97	0.06	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3801	1/1	0.97	0.07	67,67,67,67	0
58	MG	1A	3411	1/1	0.97	0.11	43,43,43,43	0
58	MG	17	103	1/1	0.97	0.10	40,40,40,40	0
58	MG	1A	3412	1/1	0.97	0.22	39,39,39,39	0
58	MG	1A	3188	1/1	0.97	0.06	41,41,41,41	0
58	MG	1A	4005	1/1	0.97	0.07	49,49,49,49	0
58	MG	1A	3147	1/1	0.97	0.24	38,38,38,38	0
58	MG	1A	4007	1/1	0.97	0.11	19,19,19,19	0
58	MG	1A	3148	1/1	0.97	0.07	45,45,45,45	0
58	MG	1A	3067	1/1	0.97	0.27	35,35,35,35	0
58	MG	2A	3076	1/1	0.97	0.07	47,47,47,47	0
58	MG	1A	3151	1/1	0.97	0.10	35,35,35,35	0
58	MG	1A	4013	1/1	0.97	0.10	41,41,41,41	0
58	MG	1A	3567	1/1	0.97	0.09	34,34,34,34	0
58	MG	2a	1709	1/1	0.97	0.14	54,54,54,54	0
58	MG	1A	3484	1/1	0.97	0.26	44,44,44,44	0
58	MG	1A	3070	1/1	0.97	0.04	28,28,28,28	0
58	MG	1A	3028	1/1	0.97	0.18	35,35,35,35	0
58	MG	2A	3426	1/1	0.97	0.10	49,49,49,49	0
58	MG	1A	3073	1/1	0.97	0.07	27,27,27,27	0
58	MG	1A	3097	1/1	0.97	0.11	39,39,39,39	0
58	MG	1A	4020	1/1	0.97	0.10	42,42,42,42	0
58	MG	1A	3158	1/1	0.97	0.08	36,36,36,36	0
58	MG	1A	3125	1/1	0.97	0.11	50,50,50,50	0
58	MG	1D	309	1/1	0.97	0.19	37,37,37,37	0
58	MG	1A	3302	1/1	0.97	0.17	35,35,35,35	0
58	MG	1a	1617	1/1	0.97	0.08	52,52,52,52	0
58	MG	1A	4025	1/1	0.97	0.10	46,46,46,46	0
58	MG	1a	1619	1/1	0.97	0.07	51,51,51,51	0
58	MG	1a	1620	1/1	0.97	0.05	56,56,56,56	0
58	MG	2A	3629	1/1	0.97	0.07	37,37,37,37	0
58	MG	1A	3303	1/1	0.97	0.26	34,34,34,34	0
58	MG	1a	1622	1/1	0.97	0.06	49,49,49,49	0
58	MG	2A	3097	1/1	0.97	0.11	44,44,44,44	0
58	MG	1E	305	1/1	0.97	0.21	41,41,41,41	0
58	MG	1a	1793	1/1	0.97	0.06	64,64,64,64	0
58	MG	1A	3580	1/1	0.97	0.08	31,31,31,31	0
58	MG	1E	307	1/1	0.97	0.12	35,35,35,35	0
58	MG	1A	3044	1/1	0.97	0.15	41,41,41,41	0
58	MG	2A	3448	1/1	0.97	0.09	61,61,61,61	0
58	MG	1E	309	1/1	0.97	0.09	33,33,33,33	0
58	MG	1A	3678	1/1	0.97	0.07	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3305	1/1	0.97	0.16	45,45,45,45	0
58	MG	2A	3106	1/1	0.97	0.14	39,39,39,39	0
58	MG	1A	3496	1/1	0.97	0.19	38,38,38,38	0
58	MG	1A	3584	1/1	0.97	0.04	23,23,23,23	0
58	MG	2a	1743	1/1	0.97	0.05	77,77,77,77	0
58	MG	2A	3455	1/1	0.97	0.07	45,45,45,45	0
58	MG	2A	3456	1/1	0.97	0.09	50,50,50,50	0
58	MG	1A	3365	1/1	0.97	0.15	32,32,32,32	0
58	MG	2D	303	1/1	0.97	0.33	44,44,44,44	0
58	MG	2A	3458	1/1	0.97	0.09	40,40,40,40	0
58	MG	2A	3650	1/1	0.97	0.07	58,58,58,58	0
58	MG	1F	303	1/1	0.97	0.17	40,40,40,40	0
58	MG	1A	3683	1/1	0.97	0.06	54,54,54,54	0
58	MG	1A	3498	1/1	0.97	0.10	35,35,35,35	0
58	MG	1F	308	1/1	0.97	0.10	34,34,34,34	0
58	MG	1A	3910	1/1	0.97	0.06	41,41,41,41	0
58	MG	1A	4038	1/1	0.97	0.09	35,35,35,35	0
58	MG	2A	3466	1/1	0.97	0.10	39,39,39,39	0
58	MG	2A	3116	1/1	0.97	0.10	55,55,55,55	0
58	MG	1A	3366	1/1	0.97	0.09	34,34,34,34	0
58	MG	1A	3367	1/1	0.97	0.14	33,33,33,33	0
58	MG	1A	3100	1/1	0.97	0.33	33,33,33,33	0
58	MG	2A	3662	1/1	0.97	0.07	55,55,55,55	0
58	MG	1A	4042	1/1	0.97	0.05	58,58,58,58	0
58	MG	1A	3688	1/1	0.97	0.06	60,60,60,60	0
58	MG	1A	3796	1/1	0.97	0.12	23,23,23,23	0
58	MG	1A	3128	1/1	0.97	0.36	38,38,38,38	0
58	MG	1A	3204	1/1	0.97	0.07	43,43,43,43	0
58	MG	1A	3371	1/1	0.97	0.06	46,46,46,46	0
58	MG	1a	1651	1/1	0.97	0.09	50,50,50,50	0
58	MG	1A	3800	1/1	0.97	0.10	30,30,30,30	0
58	MG	1A	3164	1/1	0.97	0.13	40,40,40,40	0
58	MG	1A	3596	1/1	0.97	0.05	35,35,35,35	0
58	MG	1N	203	1/1	0.97	0.07	43,43,43,43	0
58	MG	1A	3508	1/1	0.97	0.06	23,23,23,23	0
58	MG	1A	3598	1/1	0.97	0.11	57,57,57,57	0
58	MG	1a	1826	1/1	0.97	0.07	64,64,64,64	0
58	MG	2A	3135	1/1	0.97	0.12	42,42,42,42	0
58	MG	1A	3166	1/1	0.97	0.24	36,36,36,36	0
58	MG	1A	3207	1/1	0.97	0.15	46,46,46,46	0
58	MG	1A	4057	1/1	0.97	0.08	49,49,49,49	0
58	MG	1A	3208	1/1	0.97	0.14	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3075	1/1	0.97	0.10	43,43,43,43	0
58	MG	1A	3030	1/1	0.97	0.14	34,34,34,34	0
58	MG	1A	4061	1/1	0.97	0.06	43,43,43,43	0
58	MG	2W	202	1/1	0.97	0.12	63,63,63,63	0
58	MG	1A	3930	1/1	0.97	0.11	46,46,46,46	0
58	MG	1Q	201	1/1	0.97	0.16	40,40,40,40	0
58	MG	1Q	202	1/1	0.97	0.11	33,33,33,33	0
58	MG	1Q	203	1/1	0.97	0.06	45,45,45,45	0
58	MG	1A	4063	1/1	0.97	0.06	82,82,82,82	0
58	MG	1A	3605	1/1	0.97	0.12	40,40,40,40	0
58	MG	2A	3693	1/1	0.97	0.06	64,64,64,64	0
58	MG	1A	3932	1/1	0.97	0.10	37,37,37,37	0
58	MG	1A	3517	1/1	0.97	0.29	43,43,43,43	0
58	MG	1R	201	1/1	0.97	0.33	45,45,45,45	0
58	MG	1A	3170	1/1	0.97	0.07	51,51,51,51	0
58	MG	2A	3153	1/1	0.97	0.11	55,55,55,55	0
58	MG	2A	3699	1/1	0.97	0.12	51,51,51,51	0
58	MG	1A	3057	1/1	0.97	0.15	40,40,40,40	0
58	MG	2a	1802	1/1	0.97	0.06	70,70,70,70	0
58	MG	1A	3520	1/1	0.97	0.14	41,41,41,41	0
58	MG	1A	3213	1/1	0.97	0.08	47,47,47,47	0
58	MG	28	102	1/1	0.97	0.12	56,56,56,56	0
58	MG	1A	3709	1/1	0.97	0.07	44,44,44,44	0
58	MG	1A	3011	1/1	0.97	0.05	33,33,33,33	0
58	MG	1A	3711	1/1	0.97	0.07	46,46,46,46	0
58	MG	1A	3820	1/1	0.97	0.16	43,43,43,43	0
58	MG	1A	3943	1/1	0.97	0.09	27,27,27,27	0
58	MG	1A	3712	1/1	0.97	0.07	32,32,32,32	0
58	MG	1A	3081	1/1	0.97	0.07	35,35,35,35	0
58	MG	1A	3614	1/1	0.97	0.05	33,33,33,33	0
58	MG	1U	202	1/1	0.97	0.22	44,44,44,44	0
58	MG	1A	3824	1/1	0.97	0.10	40,40,40,40	0
58	MG	1A	3039	1/1	0.97	0.27	34,34,34,34	0
58	MG	1A	3040	1/1	0.97	0.15	35,35,35,35	0
58	MG	2a	1821	1/1	0.97	0.04	88,88,88,88	0
58	MG	1A	3323	1/1	0.97	0.25	39,39,39,39	0
58	MG	1A	3619	1/1	0.97	0.10	32,32,32,32	0
58	MG	1A	3449	1/1	0.97	0.16	47,47,47,47	0
58	MG	1A	3267	1/1	0.97	0.11	38,38,38,38	0
58	MG	1A	3623	1/1	0.97	0.05	27,27,27,27	0
58	MG	1A	3724	1/1	0.97	0.05	36,36,36,36	0
58	MG	2A	3529	1/1	0.97	0.06	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2a	1829	1/1	0.97	0.05	79,79,79,79	0
58	MG	1A	3624	1/1	0.97	0.04	31,31,31,31	0
58	MG	1A	3625	1/1	0.97	0.05	31,31,31,31	0
58	MG	2A	3532	1/1	0.97	0.07	50,50,50,50	0
58	MG	2A	3727	1/1	0.97	0.07	47,47,47,47	0
58	MG	1A	3837	1/1	0.97	0.10	37,37,37,37	0
58	MG	1V	204	1/1	0.97	0.34	37,37,37,37	0
58	MG	1A	3268	1/1	0.97	0.19	36,36,36,36	0
58	MG	1A	3962	1/1	0.97	0.07	67,67,67,67	0
58	MG	2a	1840	1/1	0.97	0.12	60,60,60,60	0
58	MG	1A	3728	1/1	0.97	0.16	67,67,67,67	0
58	MG	1A	3219	1/1	0.97	0.09	39,39,39,39	0
58	MG	2A	3539	1/1	0.97	0.09	43,43,43,43	0
58	MG	1W	203	1/1	0.97	0.16	39,39,39,39	0
58	MG	2A	3741	1/1	0.97	0.08	78,78,78,78	0
58	MG	2A	3541	1/1	0.97	0.17	51,51,51,51	0
58	MG	2l	201	1/1	0.97	0.09	71,71,71,71	0
58	MG	1A	3270	1/1	0.97	0.30	45,45,45,45	0
58	MG	2A	3744	1/1	0.97	0.06	71,71,71,71	0
58	MG	1A	3732	1/1	0.97	0.07	46,46,46,46	0
58	MG	1A	3733	1/1	0.97	0.03	38,38,38,38	0
58	MG	1a	1710	1/1	0.97	0.13	61,61,61,61	0
58	MG	1A	3220	1/1	0.97	0.09	33,33,33,33	0
58	MG	1A	4101	1/1	0.97	0.18	51,51,51,51	0
58	MG	2A	3019	1/1	0.97	0.10	56,56,56,56	0
58	MG	1A	3735	1/1	0.97	0.05	24,24,24,24	0
58	MG	2A	3752	1/1	0.97	0.07	49,49,49,49	0
58	MG	1A	3329	1/1	0.97	0.08	41,41,41,41	0
58	MG	2a	1644	1/1	0.97	0.18	59,59,59,59	0
58	MG	1A	4104	1/1	0.97	0.06	33,33,33,33	0
58	MG	1A	3737	1/1	0.97	0.10	53,53,53,53	0
58	MG	1A	3392	1/1	0.97	0.24	41,41,41,41	0
58	MG	1Z	302	1/1	0.97	0.08	58,58,58,58	0
58	MG	2a	1651	1/1	0.97	0.09	62,62,62,62	0
58	MG	1A	3635	1/1	0.97	0.08	36,36,36,36	0
58	MG	1A	3740	1/1	0.97	0.06	22,22,22,22	0
58	MG	1A	3538	1/1	0.97	0.29	44,44,44,44	0
58	MG	1A	3273	1/1	0.97	0.21	36,36,36,36	0
58	MG	1A	3221	1/1	0.97	0.20	32,32,32,32	0
58	MG	1A	3061	1/1	0.97	0.17	48,48,48,48	0
58	MG	1a	1726	1/1	0.97	0.04	43,43,43,43	0
60	ZN	2Y	202	1/1	0.97	0.05	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3035	1/1	0.97	0.14	55,55,55,55	0
60	ZN	2n	103	1/1	0.97	0.06	97,97,97,97	0
58	MG	1B	234	1/1	0.98	0.10	64,64,64,64	0
58	MG	2A	3406	1/1	0.98	0.04	68,68,68,68	0
58	MG	1A	3922	1/1	0.98	0.04	43,43,43,43	0
58	MG	1A	3566	1/1	0.98	0.07	44,44,44,44	0
58	MG	1A	3019	1/1	0.98	0.06	26,26,26,26	0
58	MG	1A	3620	1/1	0.98	0.07	29,29,29,29	0
58	MG	2A	3081	1/1	0.98	0.08	49,49,49,49	0
58	MG	1A	3524	1/1	0.98	0.16	51,51,51,51	0
58	MG	1D	303	1/1	0.98	0.06	21,21,21,21	0
58	MG	1U	211	1/1	0.98	0.33	39,39,39,39	0
58	MG	1A	3272	1/1	0.98	0.34	39,39,39,39	0
58	MG	1D	305	1/1	0.98	0.21	43,43,43,43	0
58	MG	1A	3570	1/1	0.98	0.07	37,37,37,37	0
58	MG	1a	1632	1/1	0.98	0.14	36,36,36,36	0
58	MG	1V	201	1/1	0.98	0.14	35,35,35,35	0
58	MG	1V	202	1/1	0.98	0.27	35,35,35,35	0
58	MG	1A	3008	1/1	0.98	0.10	29,29,29,29	0
58	MG	1A	3185	1/1	0.98	0.30	33,33,33,33	0
58	MG	1V	205	1/1	0.98	0.08	34,34,34,34	0
58	MG	1A	3528	1/1	0.98	0.20	39,39,39,39	0
58	MG	2A	3544	1/1	0.98	0.11	52,52,52,52	0
58	MG	1V	207	1/1	0.98	0.07	39,39,39,39	0
58	MG	1A	3627	1/1	0.98	0.10	57,57,57,57	0
58	MG	2A	3428	1/1	0.98	0.06	48,48,48,48	0
58	MG	1A	3161	1/1	0.98	0.11	18,18,18,18	0
58	MG	1A	3276	1/1	0.98	0.07	30,30,30,30	0
58	MG	2A	3802	1/1	0.98	0.05	79,79,79,79	0
58	MG	1E	304	1/1	0.98	0.17	33,33,33,33	0
58	MG	1A	3630	1/1	0.98	0.07	26,26,26,26	0
58	MG	1A	3214	1/1	0.98	0.10	43,43,43,43	0
58	MG	1A	3010	1/1	0.98	0.09	39,39,39,39	0
58	MG	2A	3435	1/1	0.98	0.06	43,43,43,43	0
58	MG	1A	4012	1/1	0.98	0.06	46,46,46,46	0
58	MG	1a	1648	1/1	0.98	0.15	50,50,50,50	0
58	MG	1X	102	1/1	0.98	0.07	48,48,48,48	0
58	MG	2A	3680	1/1	0.98	0.10	49,49,49,49	0
58	MG	2A	3681	1/1	0.98	0.04	72,72,72,72	0
58	MG	1A	3089	1/1	0.98	0.08	40,40,40,40	0
58	MG	1A	3091	1/1	0.98	0.08	47,47,47,47	0
58	MG	1X	105	1/1	0.98	0.06	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3873	1/1	0.98	0.09	44,44,44,44	0
58	MG	1A	3809	1/1	0.98	0.06	51,51,51,51	0
58	MG	1A	3165	1/1	0.98	0.41	44,44,44,44	0
58	MG	1A	3876	1/1	0.98	0.03	13,13,13,13	0
58	MG	1F	302	1/1	0.98	0.13	35,35,35,35	0
58	MG	2a	1645	1/1	0.98	0.13	50,50,50,50	0
58	MG	2a	1646	1/1	0.98	0.06	52,52,52,52	0
58	MG	1A	3751	1/1	0.98	0.05	51,51,51,51	0
58	MG	10	101	1/1	0.98	0.09	54,54,54,54	0
58	MG	1a	1763	1/1	0.98	0.06	61,61,61,61	0
58	MG	2A	3009	1/1	0.98	0.06	43,43,43,43	0
58	MG	2a	1785	1/1	0.98	0.05	81,81,81,81	0
58	MG	1A	3045	1/1	0.98	0.03	20,20,20,20	0
58	MG	2A	3119	1/1	0.98	0.09	57,57,57,57	0
58	MG	10	103	1/1	0.98	0.07	50,50,50,50	0
58	MG	1F	305	1/1	0.98	0.10	36,36,36,36	0
58	MG	2A	3013	1/1	0.98	0.06	50,50,50,50	0
58	MG	1A	3880	1/1	0.98	0.03	43,43,43,43	0
58	MG	1a	1768	1/1	0.98	0.06	75,75,75,75	0
58	MG	1F	307	1/1	0.98	0.13	45,45,45,45	0
58	MG	1A	3881	1/1	0.98	0.07	35,35,35,35	0
58	MG	2a	1795	1/1	0.98	0.08	57,57,57,57	0
58	MG	1A	4023	1/1	0.98	0.22	60,60,60,60	0
58	MG	1A	3537	1/1	0.98	0.08	49,49,49,49	0
58	MG	1A	3951	1/1	0.98	0.04	32,32,32,32	0
58	MG	2a	1799	1/1	0.98	0.06	57,57,57,57	0
58	MG	1A	3167	1/1	0.98	0.05	36,36,36,36	0
58	MG	1A	3078	1/1	0.98	0.15	31,31,31,31	0
58	MG	1A	3079	1/1	0.98	0.19	33,33,33,33	0
58	MG	1a	1780	1/1	0.98	0.06	57,57,57,57	0
58	MG	2A	3026	1/1	0.98	0.12	45,45,45,45	0
58	MG	2a	1805	1/1	0.98	0.06	77,77,77,77	0
58	MG	1A	3541	1/1	0.98	0.20	32,32,32,32	0
58	MG	2A	3712	1/1	0.98	0.06	57,57,57,57	0
58	MG	1G	201	1/1	0.98	0.10	42,42,42,42	0
58	MG	1A	3589	1/1	0.98	0.06	15,15,15,15	0
58	MG	1A	3068	1/1	0.98	0.04	18,18,18,18	0
58	MG	2A	3473	1/1	0.98	0.08	50,50,50,50	0
58	MG	1A	3069	1/1	0.98	0.06	33,33,33,33	0
58	MG	1A	3029	1/1	0.98	0.27	37,37,37,37	0
58	MG	2a	1815	1/1	0.98	0.06	63,63,63,63	0
58	MG	1A	3355	1/1	0.98	0.12	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3720	1/1	0.98	0.13	50,50,50,50	0
58	MG	1A	4111	1/1	0.98	0.11	49,49,49,49	0
58	MG	1A	3892	1/1	0.98	0.05	50,50,50,50	0
58	MG	1A	3321	1/1	0.98	0.27	41,41,41,41	0
58	MG	1A	4037	1/1	0.98	0.05	54,54,54,54	0
58	MG	2E	303	1/1	0.98	0.15	48,48,48,48	0
58	MG	2A	3599	1/1	0.98	0.05	64,64,64,64	0
58	MG	1A	3595	1/1	0.98	0.04	33,33,33,33	0
58	MG	1A	3650	1/1	0.98	0.04	15,15,15,15	0
58	MG	2A	3483	1/1	0.98	0.13	45,45,45,45	0
58	MG	2A	3731	1/1	0.98	0.06	64,64,64,64	0
58	MG	15	104	1/1	0.98	0.30	34,34,34,34	0
58	MG	2A	3733	1/1	0.98	0.10	68,68,68,68	0
58	MG	1A	3114	1/1	0.98	0.16	40,40,40,40	0
58	MG	1A	3358	1/1	0.98	0.20	32,32,32,32	0
58	MG	2A	3370	1/1	0.98	0.09	27,27,27,27	0
58	MG	2a	1834	1/1	0.98	0.09	85,85,85,85	0
58	MG	2A	3607	1/1	0.98	0.05	68,68,68,68	0
58	MG	1A	3132	1/1	0.98	0.04	15,15,15,15	0
58	MG	1A	3654	1/1	0.98	0.08	47,47,47,47	0
58	MG	2A	3740	1/1	0.98	0.07	37,37,37,37	0
58	MG	1P	201	1/1	0.98	0.31	36,36,36,36	0
58	MG	1A	3830	1/1	0.98	0.04	29,29,29,29	0
58	MG	1P	203	1/1	0.98	0.15	27,27,27,27	0
58	MG	1P	204	1/1	0.98	0.20	39,39,39,39	0
58	MG	2A	3494	1/1	0.98	0.09	42,42,42,42	0
58	MG	1A	3228	1/1	0.98	0.18	32,32,32,32	0
58	MG	1A	3396	1/1	0.98	0.08	55,55,55,55	0
58	MG	2f	201	1/1	0.98	0.06	45,45,45,45	0
58	MG	2f	202	1/1	0.98	0.04	82,82,82,82	0
58	MG	1a	1698	1/1	0.98	0.10	42,42,42,42	0
58	MG	1A	3292	1/1	0.98	0.05	37,37,37,37	0
58	MG	2A	3161	1/1	0.98	0.10	36,36,36,36	0
58	MG	1A	3974	1/1	0.98	0.09	59,59,59,59	0
58	MG	1A	3834	1/1	0.98	0.11	54,54,54,54	0
58	MG	2A	3753	1/1	0.98	0.05	50,50,50,50	0
58	MG	2A	3623	1/1	0.98	0.05	59,59,59,59	0
58	MG	1A	3510	1/1	0.98	0.12	47,47,47,47	0
58	MG	1A	3511	1/1	0.98	0.07	48,48,48,48	0
58	MG	1A	3604	1/1	0.98	0.05	45,45,45,45	0
58	MG	1A	4054	1/1	0.98	0.06	60,60,60,60	0
58	MG	1A	3512	1/1	0.98	0.46	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3152	1/1	0.98	0.12	33,33,33,33	0
58	MG	1A	3153	1/1	0.98	0.26	39,39,39,39	0
58	MG	1A	3203	1/1	0.98	0.18	39,39,39,39	0
58	MG	1A	3232	1/1	0.98	0.23	43,43,43,43	0
58	MG	1A	3723	1/1	0.98	0.07	45,45,45,45	0
58	MG	1A	3985	1/1	0.98	0.10	33,33,33,33	0
58	MG	1A	3098	1/1	0.98	0.04	33,33,33,33	0
58	MG	1A	3036	1/1	0.98	0.32	35,35,35,35	0
58	MG	1A	3072	1/1	0.98	0.12	50,50,50,50	0
58	MG	1A	3669	1/1	0.98	0.09	29,29,29,29	0
58	MG	1a	1717	1/1	0.98	0.04	41,41,41,41	0
58	MG	1A	3101	1/1	0.98	0.04	43,43,43,43	0
58	MG	1A	3048	1/1	0.98	0.14	30,30,30,30	0
58	MG	1U	201	1/1	0.98	0.14	36,36,36,36	0
60	ZN	14	102	1/1	0.98	0.11	110,110,110,110	0
58	MG	1A	3182	1/1	0.98	0.20	44,44,44,44	0
58	MG	1A	3731	1/1	0.98	0.07	45,45,45,45	0
60	ZN	29	501	1/1	0.98	0.04	81,81,81,81	0
58	MG	2a	1732	1/1	0.98	0.09	68,68,68,68	0
61	SF4	1d	302	8/8	0.98	0.04	65,72,75,76	0
58	MG	1A	3485	1/1	0.99	0.25	39,39,39,39	0
58	MG	1a	1782	1/1	0.99	0.06	72,72,72,72	0
58	MG	1A	3854	1/1	0.99	0.07	54,54,54,54	0
58	MG	1A	3721	1/1	0.99	0.05	47,47,47,47	0
58	MG	1A	3191	1/1	0.99	0.14	27,27,27,27	0
58	MG	1A	3632	1/1	0.99	0.05	30,30,30,30	0
58	MG	2A	3499	1/1	0.99	0.05	40,40,40,40	0
58	MG	1a	1692	1/1	0.99	0.11	44,44,44,44	0
58	MG	1A	3471	1/1	0.99	0.13	33,33,33,33	0
58	MG	1a	1649	1/1	0.99	0.09	56,56,56,56	0
58	MG	1A	3859	1/1	0.99	0.07	33,33,33,33	0
58	MG	1A	3860	1/1	0.99	0.04	39,39,39,39	0
58	MG	2A	3728	1/1	0.99	0.05	46,46,46,46	0
58	MG	1A	3700	1/1	0.99	0.06	26,26,26,26	0
58	MG	2a	1833	1/1	0.99	0.05	63,63,63,63	0
58	MG	2A	3730	1/1	0.99	0.05	50,50,50,50	0
58	MG	1A	4070	1/1	0.99	0.04	74,74,74,74	0
58	MG	1A	3612	1/1	0.99	0.09	41,41,41,41	0
58	MG	1A	3752	1/1	0.99	0.04	30,30,30,30	0
58	MG	1A	3090	1/1	0.99	0.11	23,23,23,23	0
58	MG	1A	3575	1/1	0.99	0.09	30,30,30,30	0
58	MG	1A	3615	1/1	0.99	0.04	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1A	3012	1/1	0.99	0.13	26,26,26,26	0
58	MG	1a	1750	1/1	0.99	0.04	70,70,70,70	0
58	MG	2A	3459	1/1	0.99	0.10	38,38,38,38	0
58	MG	1A	4001	1/1	0.99	0.05	45,45,45,45	0
58	MG	1A	3577	1/1	0.99	0.03	31,31,31,31	0
58	MG	1A	3234	1/1	0.99	0.05	48,48,48,48	0
58	MG	1A	3013	1/1	0.99	0.06	33,33,33,33	0
58	MG	1E	301	1/1	0.99	0.18	34,34,34,34	0
58	MG	1A	3003	1/1	0.99	0.06	27,27,27,27	0
58	MG	2A	3632	1/1	0.99	0.09	45,45,45,45	0
58	MG	1a	1807	1/1	0.99	0.04	70,70,70,70	0
58	MG	1E	303	1/1	0.99	0.12	37,37,37,37	0
58	MG	1A	3787	1/1	0.99	0.08	37,37,37,37	0
58	MG	1A	3150	1/1	0.99	0.11	36,36,36,36	0
58	MG	1A	4008	1/1	0.99	0.11	35,35,35,35	0
58	MG	1A	4046	1/1	0.99	0.05	53,53,53,53	0
58	MG	1A	3938	1/1	0.99	0.04	43,43,43,43	0
58	MG	1A	3973	1/1	0.99	0.04	29,29,29,29	0
58	MG	2a	1739	1/1	0.99	0.03	65,65,65,65	0
58	MG	1A	3021	1/1	0.99	0.06	17,17,17,17	0
58	MG	1A	3034	1/1	0.99	0.05	26,26,26,26	0
58	MG	1A	3353	1/1	0.99	0.20	34,34,34,34	0
58	MG	2A	3423	1/1	0.99	0.06	45,45,45,45	0
58	MG	1A	4091	1/1	0.99	0.04	46,46,46,46	0
58	MG	1A	3035	1/1	0.99	0.18	34,34,34,34	0
58	MG	1A	3263	1/1	0.99	0.18	33,33,33,33	0
58	MG	2a	1806	1/1	0.99	0.03	66,66,66,66	0
58	MG	1A	3944	1/1	0.99	0.06	45,45,45,45	0
58	MG	1A	3879	1/1	0.99	0.07	40,40,40,40	0
58	MG	1A	3741	1/1	0.99	0.06	26,26,26,26	0
58	MG	1a	1773	1/1	0.99	0.07	66,66,66,66	0
58	MG	1a	1774	1/1	0.99	0.03	54,54,54,54	0
58	MG	1A	3849	1/1	0.99	0.04	42,42,42,42	0
60	ZN	1Y	203	1/1	0.99	0.03	78,78,78,78	0
58	MG	1A	3499	1/1	0.99	0.10	36,36,36,36	0
60	ZN	15	109	1/1	0.99	0.03	50,50,50,50	0
60	ZN	1n	104	1/1	0.99	0.04	78,78,78,78	0
58	MG	1A	3054	1/1	0.99	0.11	27,27,27,27	0
58	MG	18	102	1/1	0.99	0.12	43,43,43,43	0
60	ZN	25	103	1/1	0.99	0.03	71,71,71,71	0
58	MG	1a	1779	1/1	0.99	0.04	69,69,69,69	0
58	MG	1A	3265	1/1	0.99	0.08	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	2A	3020	1/1	0.99	0.09	28,28,28,28	0
61	SF4	2d	303	8/8	0.99	0.04	62,70,76,82	0
60	ZN	16	103	1/1	1.00	0.02	44,44,44,44	0
60	ZN	26	103	1/1	1.00	0.03	65,65,65,65	0
60	ZN	19	102	1/1	1.00	0.08	58,58,58,58	0
58	MG	1A	3707	1/1	1.00	0.09	48,48,48,48	0
58	MG	1a	1612	1/1	1.00	0.03	31,31,31,31	0
58	MG	2A	3615	1/1	1.00	0.04	39,39,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.