



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 6, 2026 – 12:11 AM EDT

PDB ID : 9O3J / pdb_00009o3j
Title : Crystal structure of the wild-type drug-free *Thermus thermophilus* 70S ribosome in complex with mRNA, aminoacylated A-site Lys-tRNA^{Lys}, P-site fM RC-peptidyl-tRNA^{Met}, and deacylated E-site tRNA^{Lys} at 2.60Å resolution
Authors : Syroegin, E.A.; Aleksandrova, E.V.; Kruglov, A.A.; Paranjpe, M.N.; Svetlov, M.S.; Polikanov, Y.S.
Deposited on : 2025-04-07
Resolution : 2.60 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

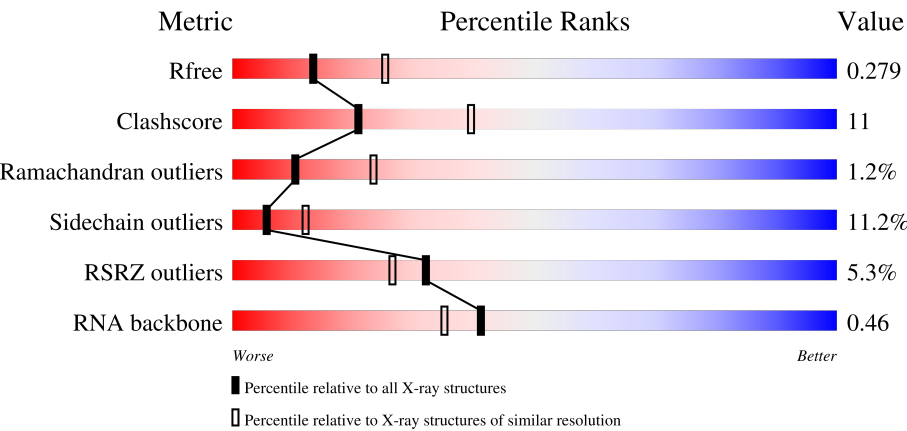
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance i

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

The reported resolution of this entry is 2.60 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)
RNA backbone	3983	1014 (2.84-2.36)

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

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

Continued on next page...

Continued from previous page...

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	

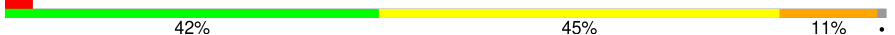
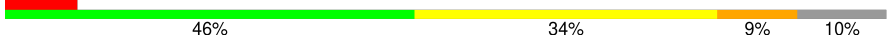
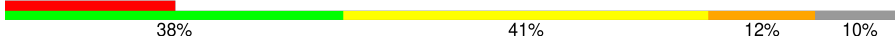
Continued on next page...

Continued from previous page...

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	

Continued on next page...

Continued from previous page...

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

Continued on next page...

Continued from previous page...

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	

Continued on next page...

Continued from previous page...

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	3	
56	2z	3	
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	1U	208	-	-	-	X

2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 299808 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2871	Total	C	N	O	P	0	0	0
			61852	27531	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60322	26848	11284	19390	2800			

- Molecule 2 is a RNA chain called 5S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1B	120	Total	C	N	O	P	0	0	0
			2577	1146	476	835	120			
2	2B	120	Total	C	N	O	P	0	0	0
			2575	1146	476	833	120			

- Molecule 3 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	1D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			
3	2D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

- Molecule 4 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	1E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
4	2E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			

- Molecule 5 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	1F	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
5	2F	203	Total	C	N	O	S	0	0	1
			1580	1007	297	274	2			

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

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

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

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

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

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

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

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

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

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

Continued on next page...

Continued from previous page...

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			

Continued on next page...

Continued from previous page...

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			

Continued on next page...

Continued from previous page...

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 MET-LYS-mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			283	128	59	83	13			
53	2v	13	Total	C	N	O	P	0	0	0
			283	128	59	83	13			

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	74	Total	C	N	O	P	S	0	0	0
			1599	718	282	524	74	1			
54	2w	74	Total	C	N	O	P	S	0	0	0
			1599	718	282	524	74	1			

- Molecule 55 is a RNA chain called P-site Peptidyl-tRNA fMRC-tRNAcys 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 fMRC-tRNAcys Peptide-part.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	1z	3	Total	C	N	O	S	0	0	0
			27	15	6	4	2			
56	2z	3	Total	C	N	O	S	0	0	0
			27	15	6	4	2			

- Molecule 57 is a RNA chain called E-site Deacylated tRNAlys.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
57	1y	74	Total	C	N	O	P	S	0	0	0
			1577	705	277	520	74	1			
57	2y	74	Total	C	N	O	P	S	0	0	0
			1577	705	277	520	74	1			

- Molecule 58 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1A	1096	Total	Mg	0	0
			1096	1096		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1B	37	Total 37	Mg 37	0	0
58	1D	13	Total 13	Mg 13	0	0
58	1E	16	Total 16	Mg 16	0	0
58	1F	13	Total 13	Mg 13	0	0
58	1G	5	Total 5	Mg 5	0	0
58	1H	1	Total 1	Mg 1	0	0
58	1I	1	Total 1	Mg 1	0	0
58	1N	5	Total 5	Mg 5	0	0
58	1O	4	Total 4	Mg 4	0	0
58	1P	6	Total 6	Mg 6	0	0
58	1Q	7	Total 7	Mg 7	0	0
58	1R	4	Total 4	Mg 4	0	0
58	1S	3	Total 3	Mg 3	0	0
58	1T	2	Total 2	Mg 2	0	0
58	1U	9	Total 9	Mg 9	0	0
58	1V	9	Total 9	Mg 9	0	0
58	1W	7	Total 7	Mg 7	0	0
58	1X	5	Total 5	Mg 5	0	0
58	1Y	3	Total 3	Mg 3	0	0
58	1Z	2	Total 2	Mg 2	0	0
58	10	9	Total 9	Mg 9	0	0

Continued on next page...

Continued from previous page...

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	5	Total 5	Mg 5	0	0
58	14	1	Total 1	Mg 1	0	0
58	15	6	Total 6	Mg 6	0	0
58	16	2	Total 2	Mg 2	0	0
58	17	6	Total 6	Mg 6	0	0
58	18	9	Total 9	Mg 9	0	0
58	1a	210	Total 210	Mg 210	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	2	Total 2	Mg 2	0	0
58	1p	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
58	1w	3	Total 3	Mg 3	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1x	11	Total 11	Mg 11	0	0
58	2A	863	Total 863	Mg 863	0	0
58	2B	20	Total 20	Mg 20	0	0
58	2D	7	Total 7	Mg 7	0	0
58	2E	7	Total 7	Mg 7	0	0
58	2F	7	Total 7	Mg 7	0	0
58	2G	1	Total 1	Mg 1	0	0
58	2O	2	Total 2	Mg 2	0	0
58	2P	3	Total 3	Mg 3	0	0
58	2Q	2	Total 2	Mg 2	0	0
58	2R	2	Total 2	Mg 2	0	0
58	2T	3	Total 3	Mg 3	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	1	Total 1	Mg 1	0	0
58	2Y	1	Total 1	Mg 1	0	0
58	2Z	1	Total 1	Mg 1	0	0
58	20	4	Total 4	Mg 4	0	0
58	23	4	Total 4	Mg 4	0	0
58	25	5	Total 5	Mg 5	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	27	3	Total 3	Mg 3	0	0
58	28	1	Total 1	Mg 1	0	0
58	2a	230	Total 230	Mg 230	0	0
58	2d	2	Total 2	Mg 2	0	0
58	2e	1	Total 1	Mg 1	0	0
58	2f	2	Total 2	Mg 2	0	0
58	2g	1	Total 1	Mg 1	0	0
58	2i	1	Total 1	Mg 1	0	0
58	2j	1	Total 1	Mg 1	0	0
58	2k	1	Total 1	Mg 1	0	0
58	2l	4	Total 4	Mg 4	0	0
58	2n	1	Total 1	Mg 1	0	0
58	2q	2	Total 2	Mg 2	0	0
58	2r	1	Total 1	Mg 1	0	0
58	2t	1	Total 1	Mg 1	0	0
58	2v	4	Total 4	Mg 4	0	0
58	2w	1	Total 1	Mg 1	0	0
58	2x	6	Total 6	Mg 6	0	0
58	2y	1	Total 1	Mg 1	0	0

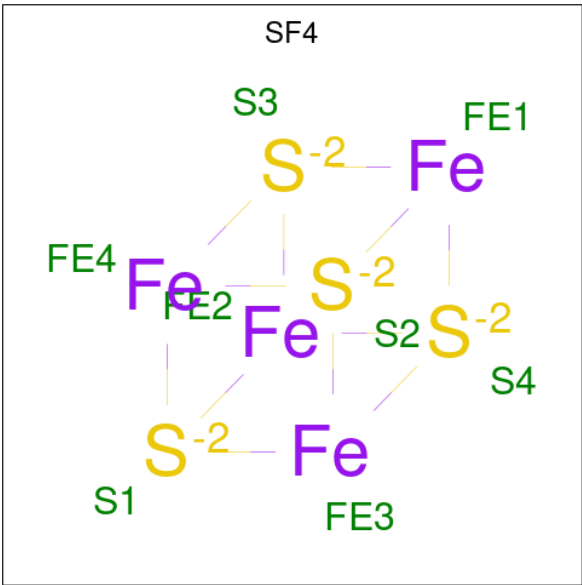
- Molecule 59 is POTASSIUM ION (CCD ID: K) (formula: K).

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 (CCD ID: ZN) (formula: Zn).

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

- Molecule 61 is IRON/SULFUR CLUSTER (CCD ID: 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	1886	Total	O	0	0
			1886	1886		
62	1B	61	Total	O	0	0
			61	61		
62	1D	28	Total	O	0	0
			28	28		
62	1E	29	Total	O	0	0
			29	29		
62	1F	15	Total	O	0	0
			15	15		
62	1G	3	Total	O	0	0
			3	3		
62	1H	2	Total	O	0	0
			2	2		
62	1I	1	Total	O	0	0
			1	1		
62	1N	4	Total	O	0	0
			4	4		
62	1O	4	Total	O	0	0
			4	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	1P	23	Total 23	O 23	0	0
62	1Q	8	Total 8	O 8	0	0
62	1R	16	Total 16	O 16	0	0
62	1S	5	Total 5	O 5	0	0
62	1T	8	Total 8	O 8	0	0
62	1U	10	Total 10	O 10	0	0
62	1V	11	Total 11	O 11	0	0
62	1W	6	Total 6	O 6	0	0
62	1X	7	Total 7	O 7	0	0
62	1Y	1	Total 1	O 1	0	0
62	1Z	1	Total 1	O 1	0	0
62	10	10	Total 10	O 10	0	0
62	11	12	Total 12	O 12	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	7	Total 7	O 7	0	0
62	16	2	Total 2	O 2	0	0
62	17	11	Total 11	O 11	0	0
62	18	11	Total 11	O 11	0	0
62	1a	308	Total 308	O 308	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	1b	1	Total 1	O 1	0	0
62	1e	1	Total 1	O 1	0	0
62	1f	1	Total 1	O 1	0	0
62	1i	1	Total 1	O 1	0	0
62	1l	7	Total 7	O 7	0	0
62	1m	2	Total 2	O 2	0	0
62	1o	1	Total 1	O 1	0	0
62	1q	2	Total 2	O 2	0	0
62	1u	1	Total 1	O 1	0	0
62	1v	5	Total 5	O 5	0	0
62	1w	8	Total 8	O 8	0	0
62	1x	6	Total 6	O 6	0	0
62	1z	1	Total 1	O 1	0	0
62	1y	1	Total 1	O 1	0	0
62	2A	1000	Total 1000	O 1000	0	0
62	2B	22	Total 22	O 22	0	0
62	2D	24	Total 24	O 24	0	0
62	2E	9	Total 9	O 9	0	0
62	2F	15	Total 15	O 15	0	0
62	2N	1	Total 1	O 1	0	0
62	2O	2	Total 2	O 2	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	2P	11	Total 11	O 11	0	0
62	2Q	1	Total 1	O 1	0	0
62	2R	3	Total 3	O 3	0	0
62	2T	5	Total 5	O 5	0	0
62	2U	3	Total 3	O 3	0	0
62	2W	3	Total 3	O 3	0	0
62	2X	4	Total 4	O 4	0	0
62	2Y	1	Total 1	O 1	0	0
62	2Z	1	Total 1	O 1	0	0
62	20	5	Total 5	O 5	0	0
62	21	13	Total 13	O 13	0	0
62	25	2	Total 2	O 2	0	0
62	27	1	Total 1	O 1	0	0
62	28	3	Total 3	O 3	0	0
62	29	1	Total 1	O 1	0	0
62	2a	198	Total 198	O 198	0	0
62	2d	1	Total 1	O 1	0	0
62	2e	1	Total 1	O 1	0	0
62	2j	1	Total 1	O 1	0	0
62	2l	4	Total 4	O 4	0	0
62	2p	2	Total 2	O 2	0	0

Continued on next page...

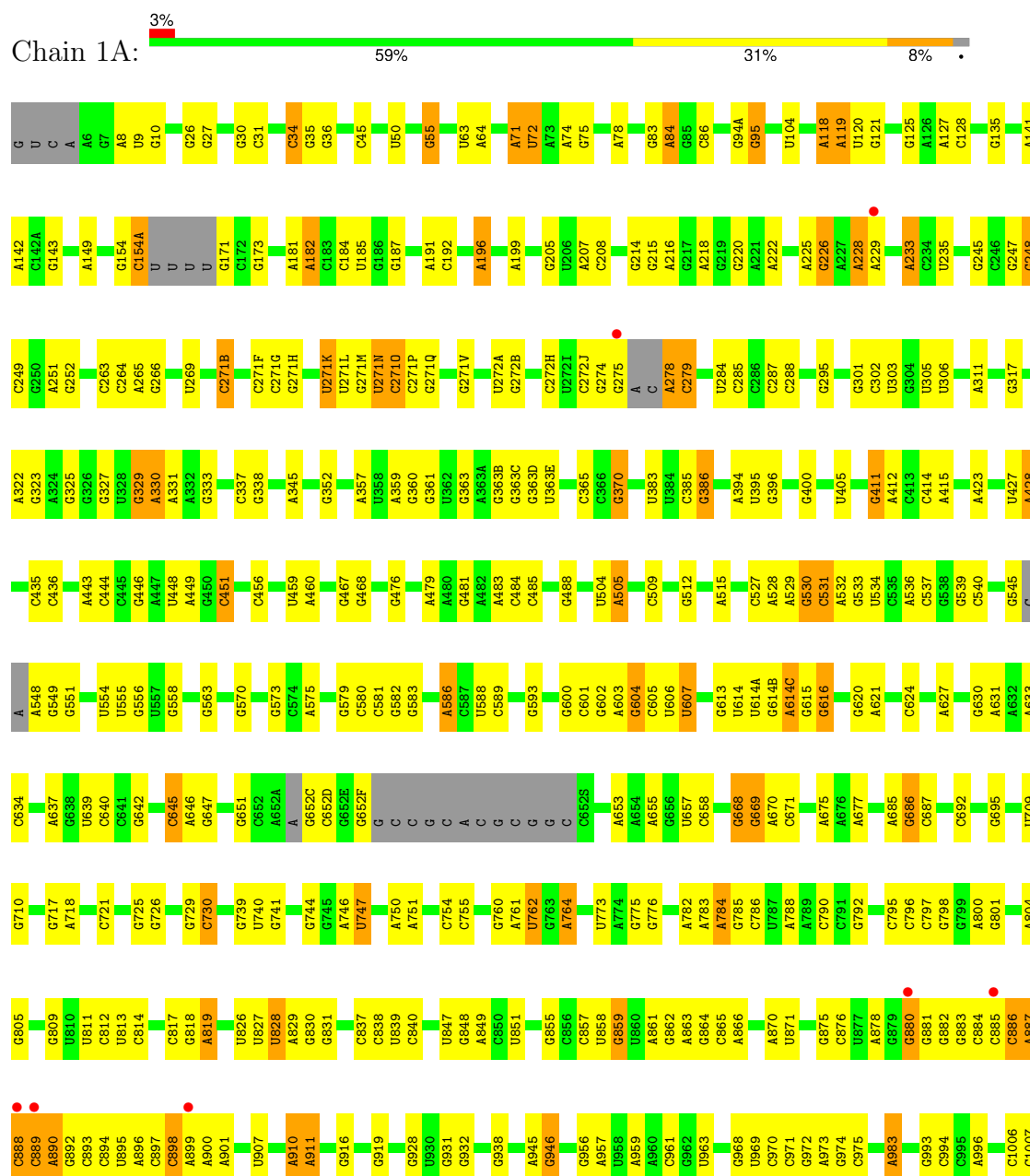
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	2r	1	Total	O	0	0
			1	1		
62	2t	1	Total	O	0	0
			1	1		
62	2v	2	Total	O	0	0
			2	2		
62	2w	3	Total	O	0	0
			3	3		
62	2x	5	Total	O	0	0
			5	5		

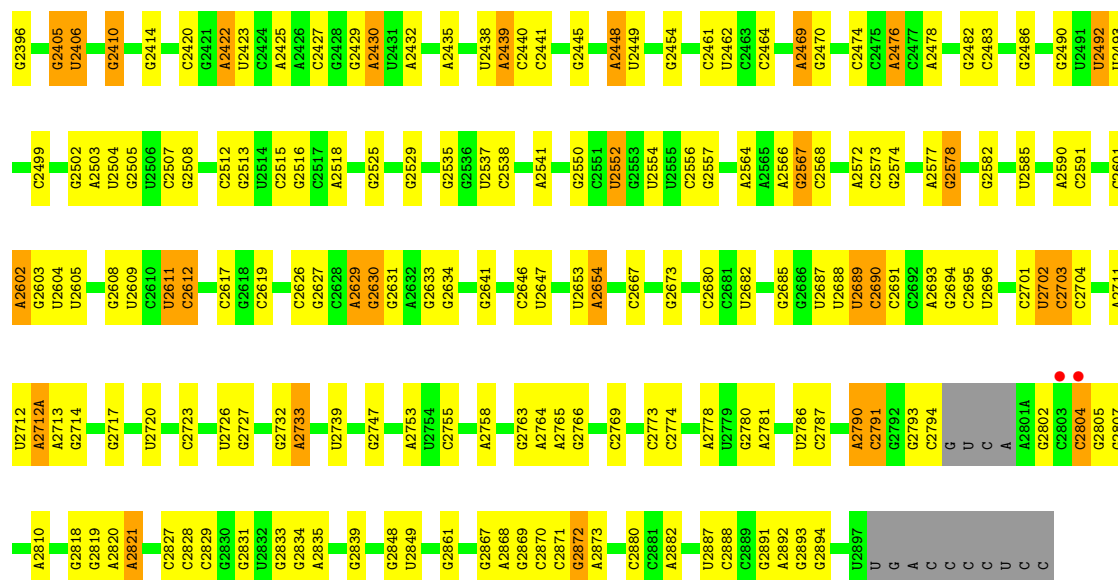
3 Residue-property plots

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.

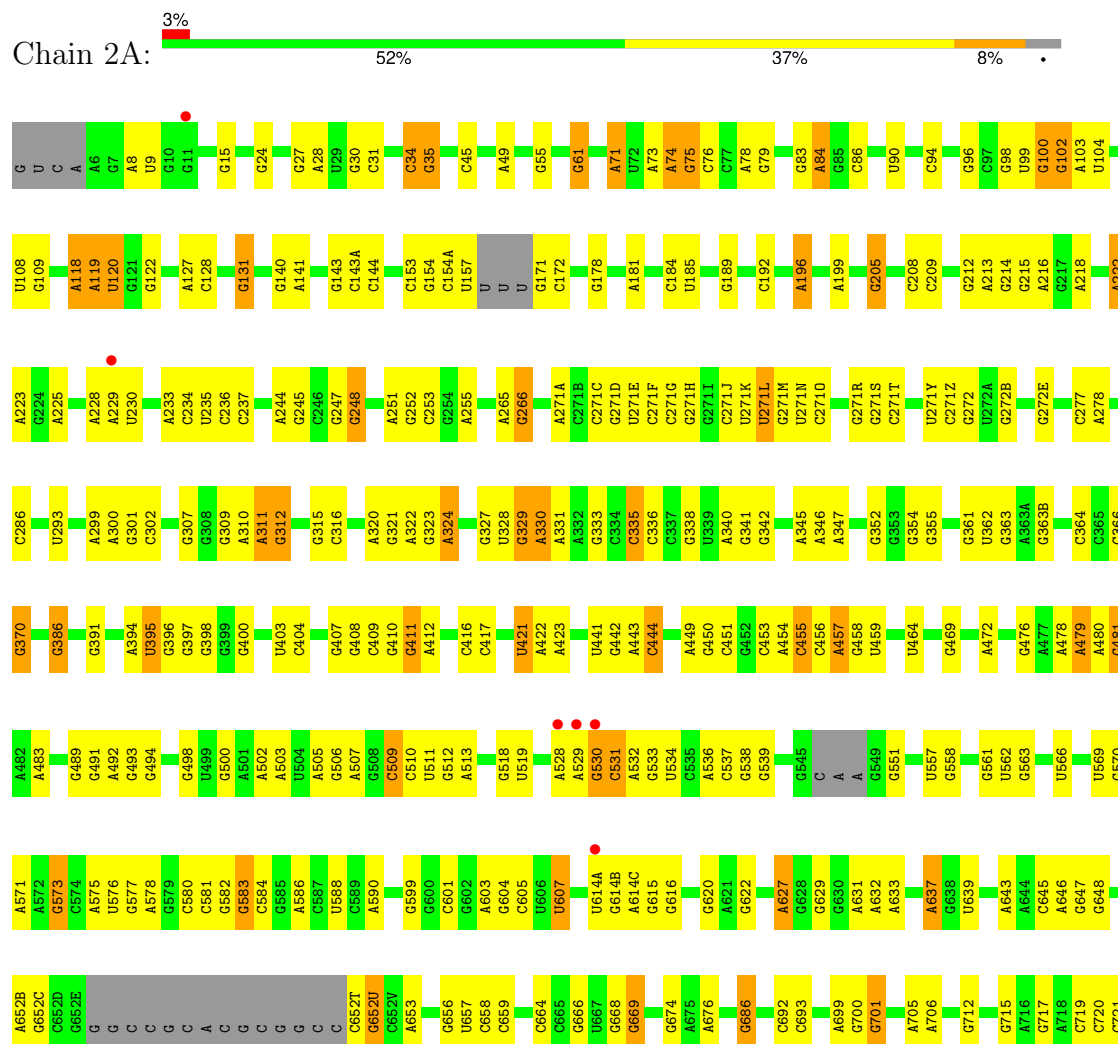
• Molecule 1: 23S Ribosomal RNA



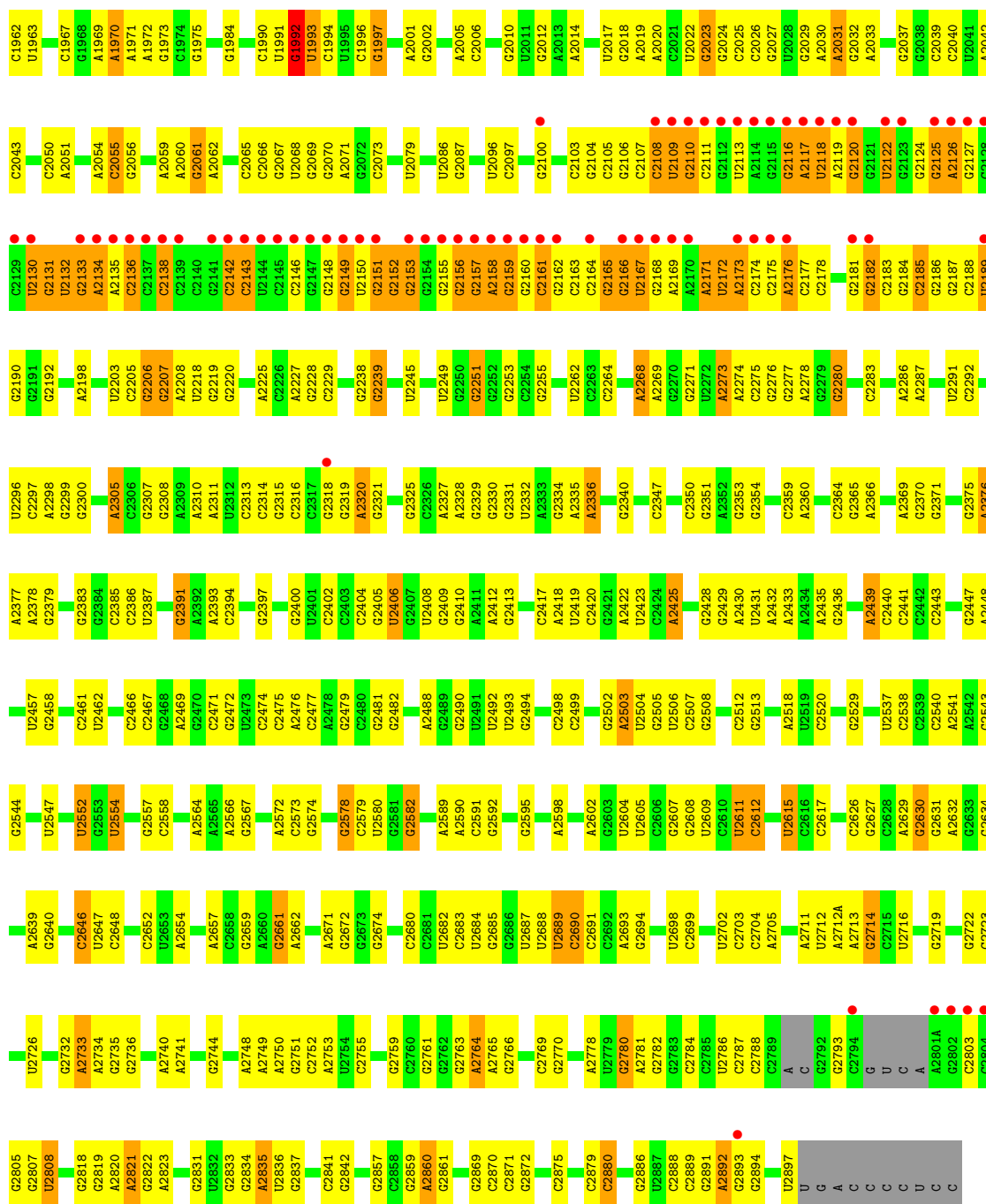
C2292	C2195	G1950	G1826	G1718	C1588	A1494	G1371	A1247	G1149	A1077	A1010
G2302	A2198	U1951	C1827	G1719	C1589	U1497	U1372	G1252	C1150	U1078	G1011
A2305	A2199	A1952	G1828	U1720	G1594	U1497	A1373	A1253	C1151	C1079	U1012
G2307	C2200	A1953	A1829	U1721	G1595	C1504	A1379	G1256	C1152	C1080	U1013
G2308	U2203	U1955	A1847	A1722	U1602	C1506	G1380	A1256	G1154	U1081	U1014
G2205	C2061	C1963	U1851	G1739	U1607	A1507	A1384	G1264	A1155	U1083	G1015
G2206	A2062	U1962	C1852	U1740	C1607	A1508	G1385	A1265	A1156	A1084	G1016
G2207	C2063	U1963	G1865	A1741	A1608	C1509	G1385	G1266	U1164	A1085	G1022
A2208	C2064	G1964	A1876	G1753	A1609	A1509A	U1394	G1267	U1165	A1086	U1023
U2218	C2065	C1965	G1857	G1753	A1610	A1509B	A1395	A1268	U1166	G1087	G1024
G2315	C2066	A1966	G1858	G1756	A1614	U1512	U1396	G1271	U1167	A1088	G1025
G2316	U2219	U1967	U1864	U1757	C1615	C1513	C1399	G1272	G1171	U1089	U1026
G2222	G2069	U1968	G1865	G1759	C1615	U1514	C1399	A1272	C1091	U1090	A1027
A2225	U2074	A1969	C1866	A1762	G1633	G1515	U1405	U1273	C1092	G1092	A1028
C2226	U2075	A1971	A1877	G1763	G1634	U1518	U1406	A1274	G1093	U1093	U1033
A2227	U2079	A1972	G1878	G1764	G1636	U1519	C1407	A1275	A1094	U1094	U1033
G2228	G1984	G1984	C1882	G1770	A1641	G1520	G1416	A1278	U1175	A1095	G1084
G2319	G1984	G1984	G1883	G1773	G1642	A1528	C1417	G1281	A1177	U1097	U1035
A2320	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1178	A1098	G1038
G2325	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1179	G1099	G1038
G2326	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1180	U1101	G1039
A2327	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1181	U1102	G1041
A2328	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1182	C1103	G1042
G2329	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1183	A1103	C1043
G2330	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1184	U1105	A1044
G2331	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1185	U1106	G1106
G2334	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1186	C1109	G1047
A2335	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1187	G1110	A1048
A2336	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1188	G1111	G1051
G2337	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1189	G1112	C1052
G2345	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1190	U1113	G1053
A2346	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1191	G1114	G1054
G2347	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1192	G1115	A1055
U2348	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1193	C1116	G1056
G2349	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1194	C1117	A1057
C2350	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1195	G1118	G1058
G2354	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1196	U1119	G1059
A2361	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1197	U1120	U1060
C2364	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1198	G1125	G1062
G2365	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1199	A1132	G1063
A2366	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1200	U1133	C1064
G2367	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1201	G1135	U1065
A2377	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1202	G1136	U1066
A2378	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1203	G1137	A1067
G2381	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1204	G1138	G1068
G2382	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1205	G1139	A1069
G2383	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1206	G1140	A1070
G2384	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1207	U1141	G1071
G2385	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1208	U1142	C1072
G2386	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1209	A1143	A1073
U2390	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1210	A1144	G1074
G2394	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1211	A1145	G1075
G2395	G1984	G1984	G1883	A1773	G1642	A1528	C1417	G1281	C1212	A1146	C1076



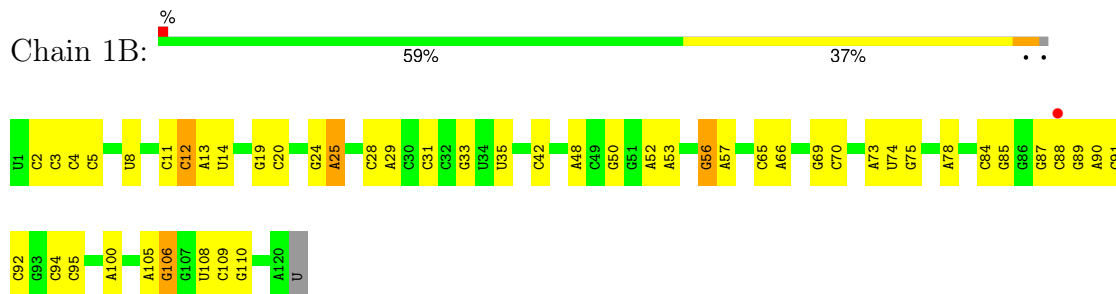
• Molecule 1: 23S Ribosomal RNA







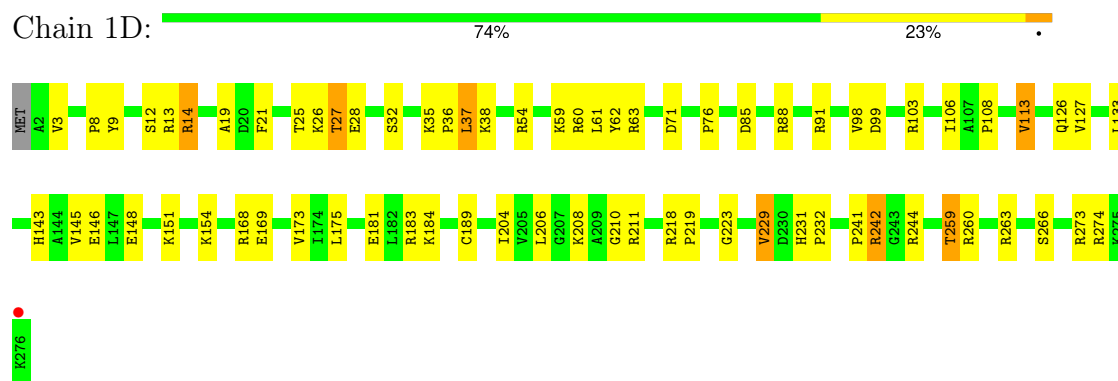
● Molecule 2: 5S Ribosomal RNA



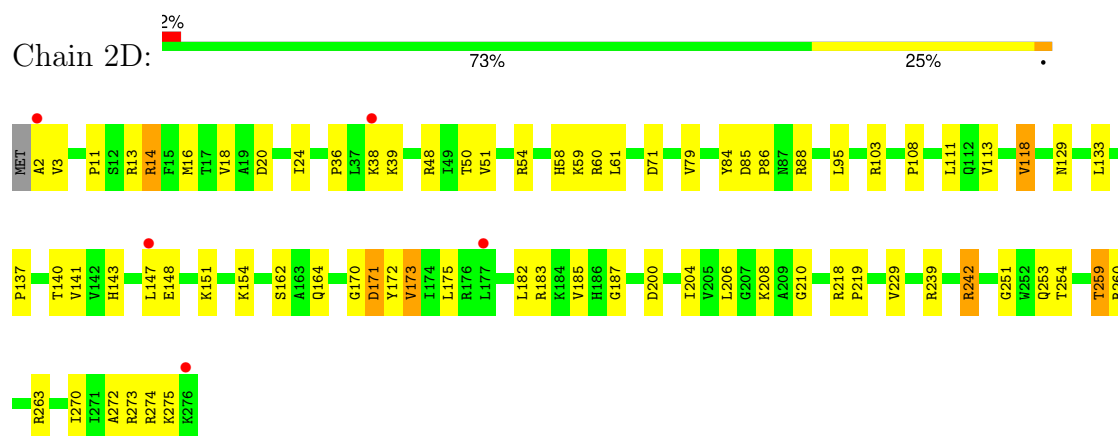
- Molecule 2: 5S Ribosomal RNA



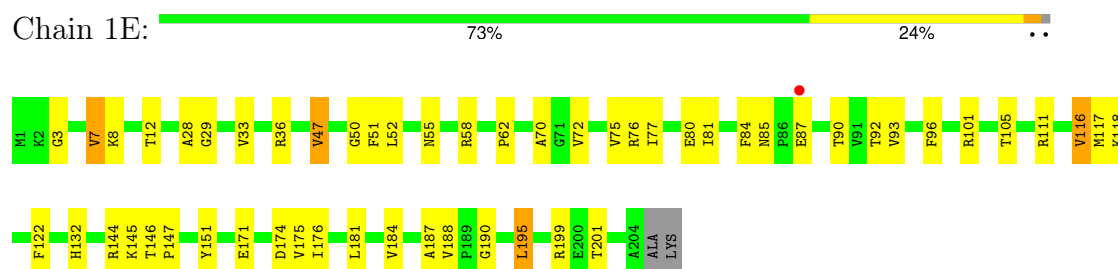
- Molecule 3: 50S ribosomal protein L2



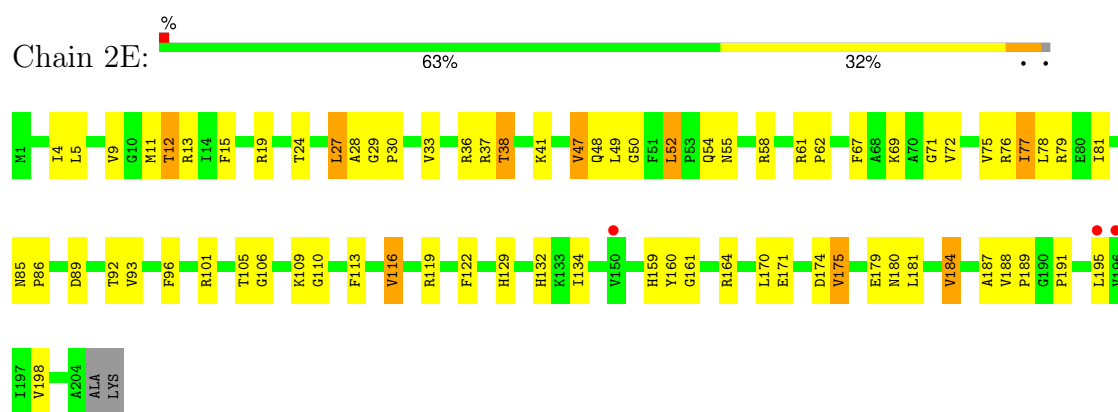
- Molecule 3: 50S ribosomal protein L2



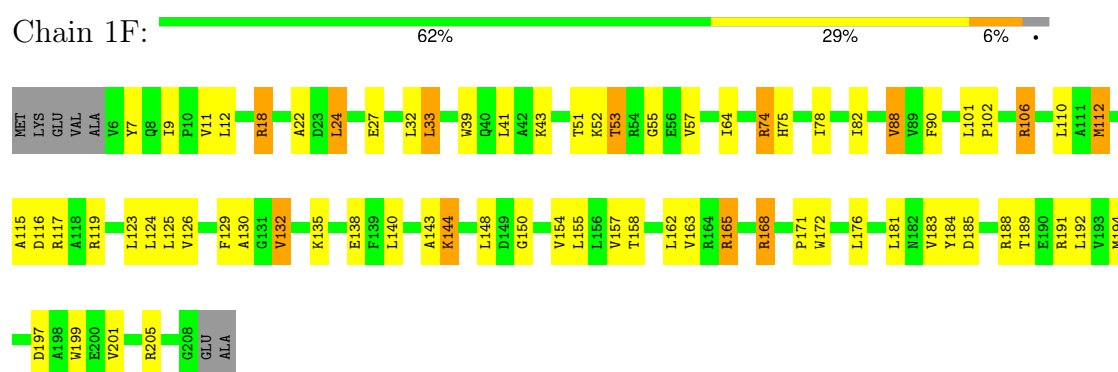
- Molecule 4: 50S ribosomal protein L3



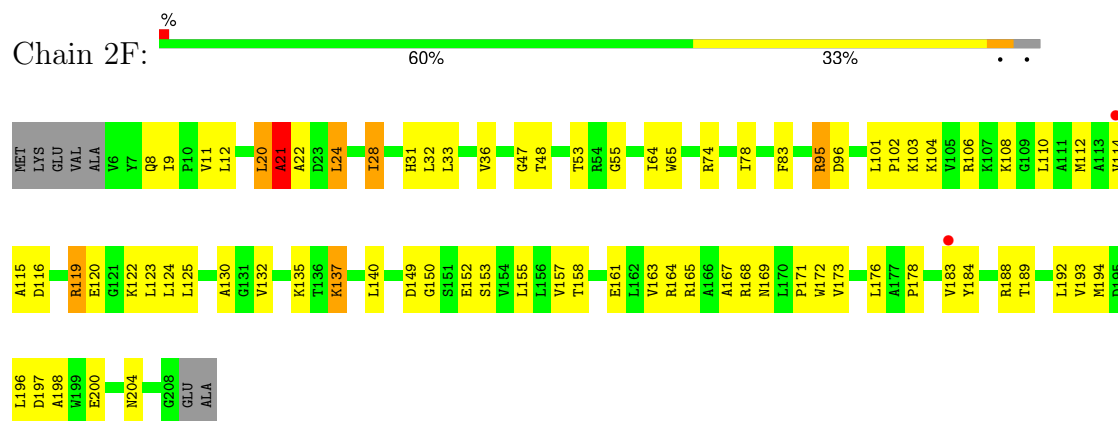
- Molecule 4: 50S ribosomal protein L3



• Molecule 5: 50S ribosomal protein L4

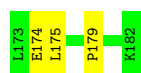


• Molecule 5: 50S ribosomal protein L4

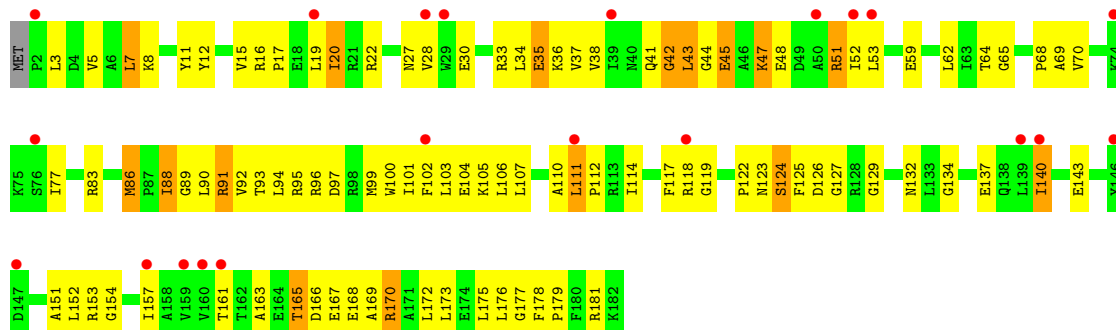
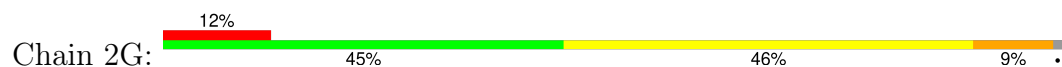


• Molecule 6: 50S ribosomal protein L5

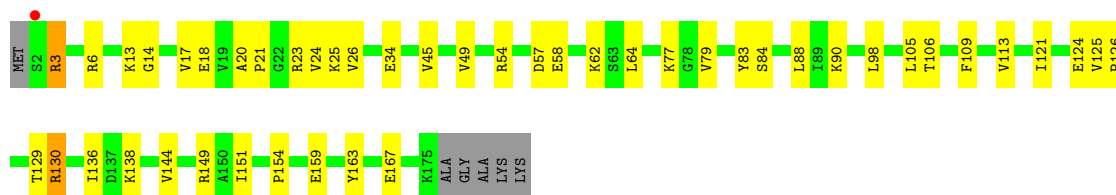
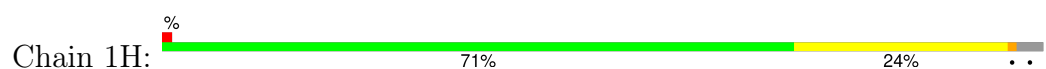




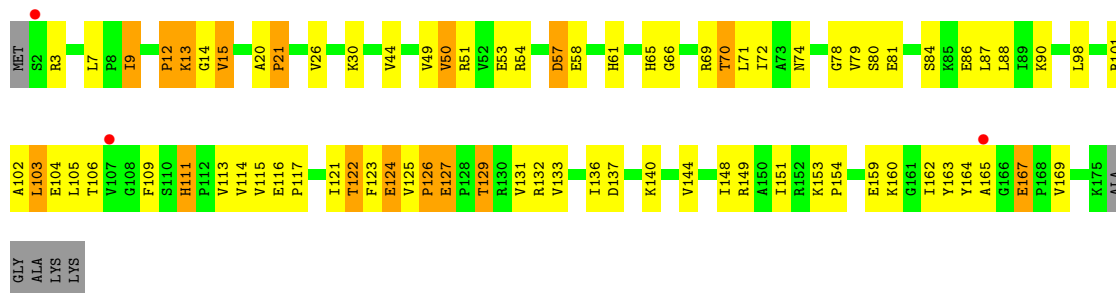
• Molecule 6: 50S ribosomal protein L5



• Molecule 7: 50S ribosomal protein L6



• Molecule 7: 50S ribosomal protein L6

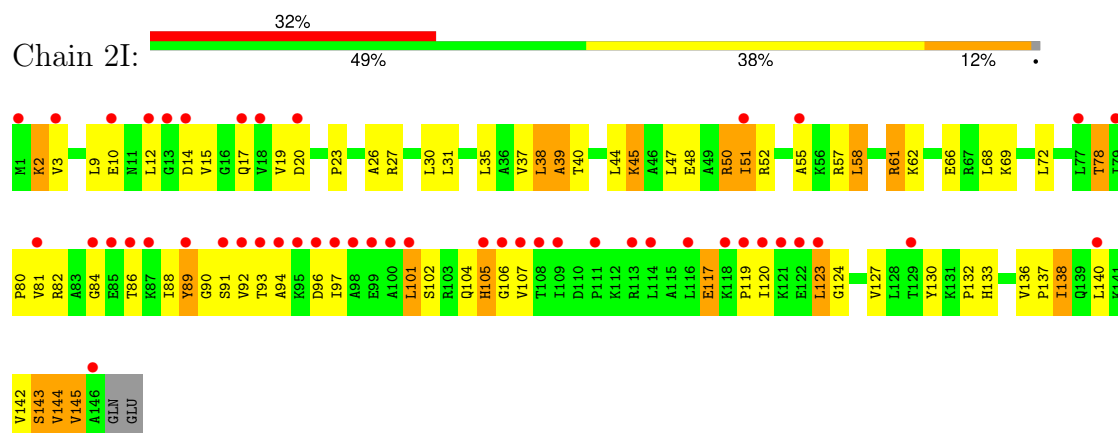


• Molecule 8: 50S ribosomal protein L9

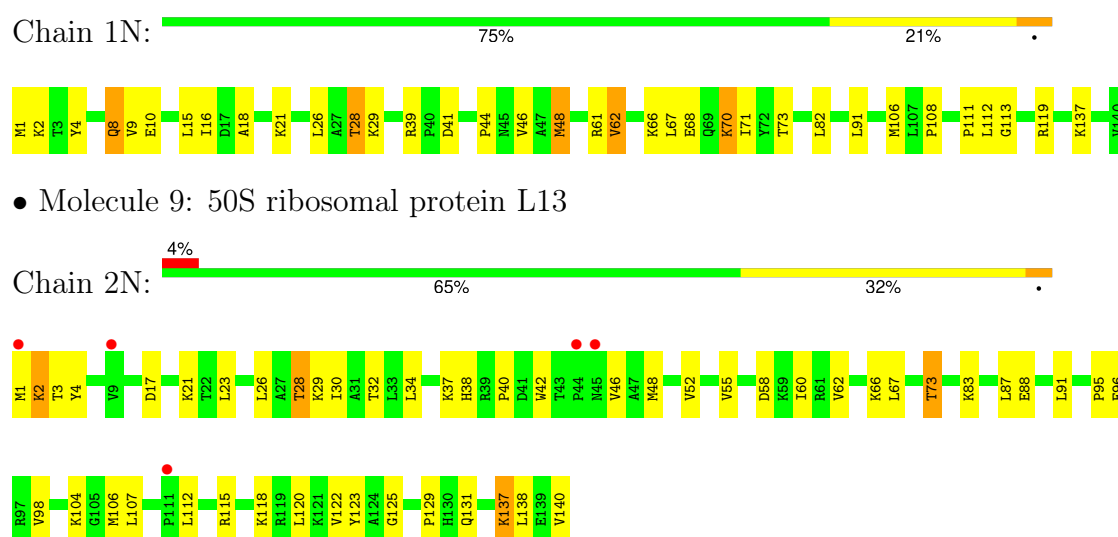




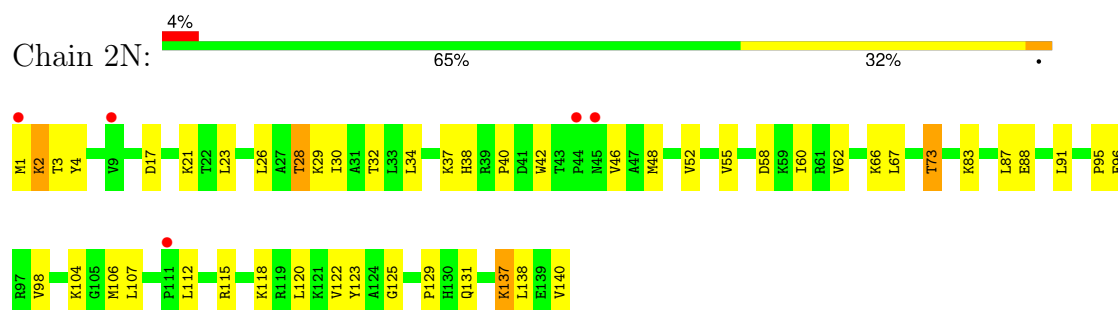
• Molecule 8: 50S ribosomal protein L9



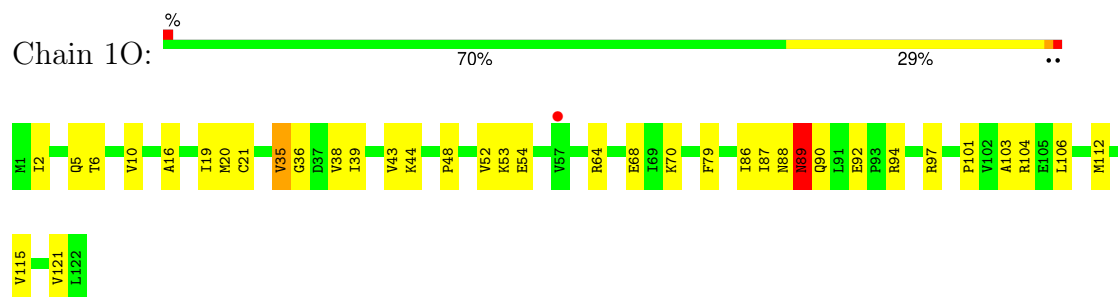
• Molecule 9: 50S ribosomal protein L13



• Molecule 9: 50S ribosomal protein L13

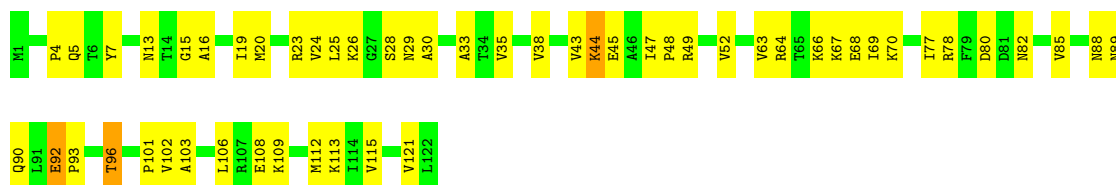


• Molecule 10: 50S ribosomal protein L14



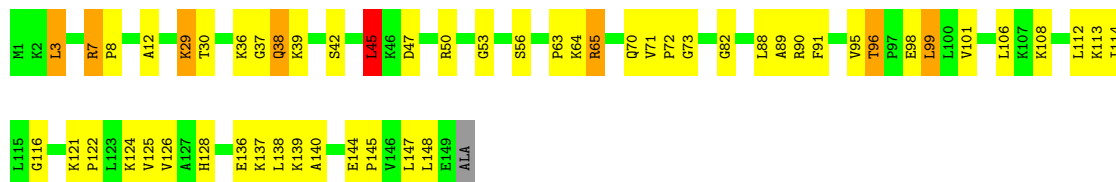
• Molecule 10: 50S ribosomal protein L14





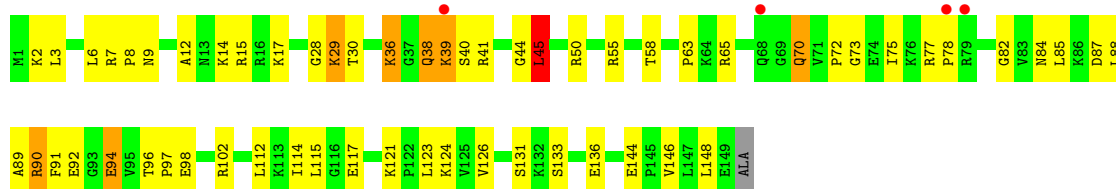
• Molecule 11: 50S ribosomal protein L15

Chain 1P: 63% 31% 5% ..



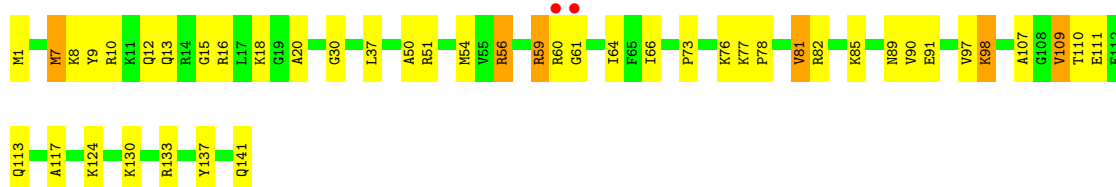
• Molecule 11: 50S ribosomal protein L15

Chain 2P: 3% 60% 34% 5% ..



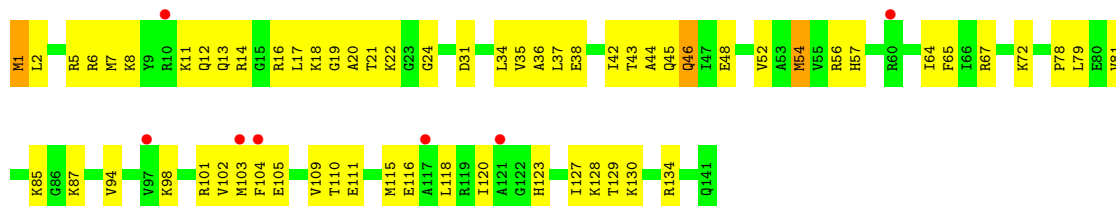
• Molecule 12: 50S ribosomal protein L16

Chain 1Q: % 68% 28% .



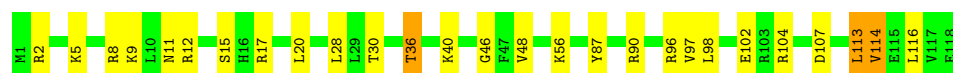
• Molecule 12: 50S ribosomal protein L16

Chain 2Q: 5% 55% 43% .



• Molecule 13: 50S ribosomal protein L17

Chain 1R:  77% 20% .



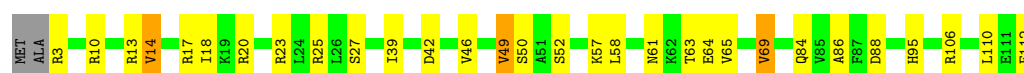
- Molecule 13: 50S ribosomal protein L17

Chain 2R:  2% 74% 25% .



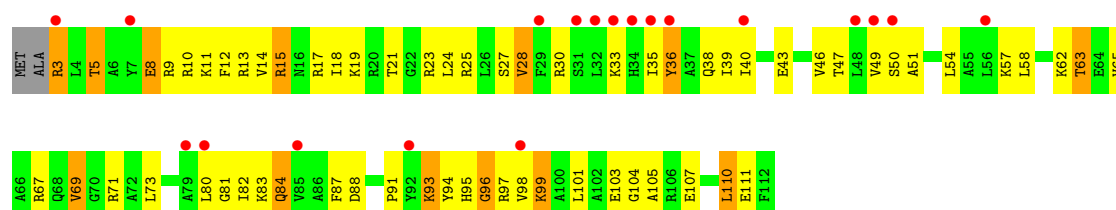
- Molecule 14: 50S ribosomal protein L18

Chain 1S:  71% 24% . .



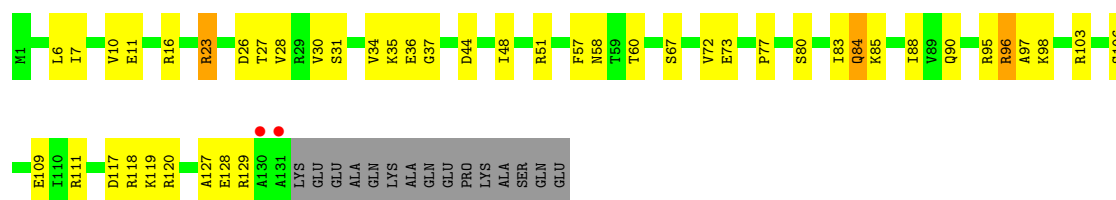
- Molecule 14: 50S ribosomal protein L18

Chain 2S:  17% 41% 46% 12% .



- Molecule 15: 50S ribosomal protein L19

Chain 1T:  % 58% 29% 10% .



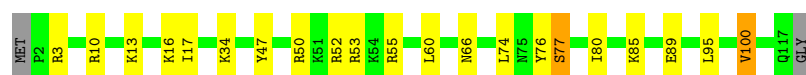
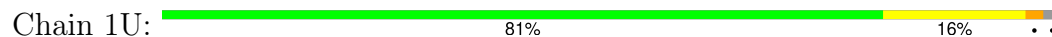
- Molecule 15: 50S ribosomal protein L19

Chain 2T:  % 55% 34% 10% .





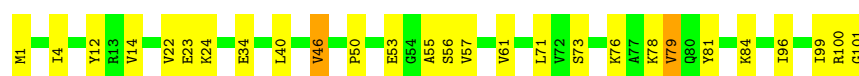
- Molecule 16: 50S ribosomal protein L20



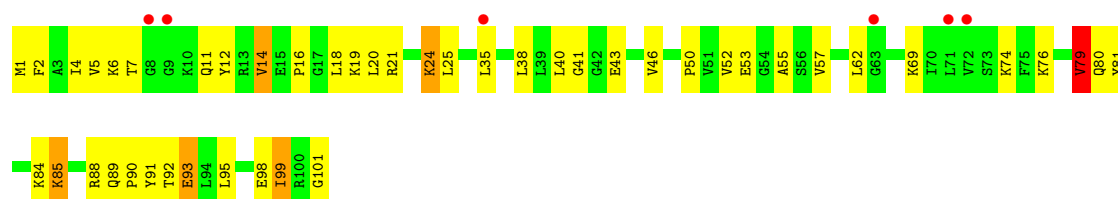
- Molecule 16: 50S ribosomal protein L20



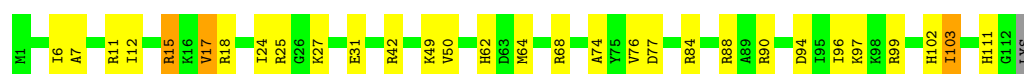
- Molecule 17: 50S ribosomal protein L21



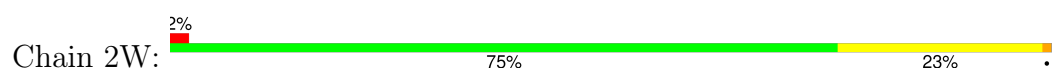
- Molecule 17: 50S ribosomal protein L21



- Molecule 18: 50S ribosomal protein L22



- Molecule 18: 50S ribosomal protein L22





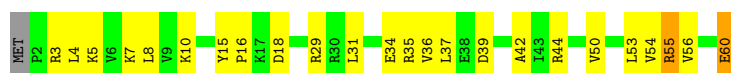
- Chain 12:  %



- Molecule 24: 50S ribosomal protein L29



- Molecule 25: 50S ribosomal protein L30



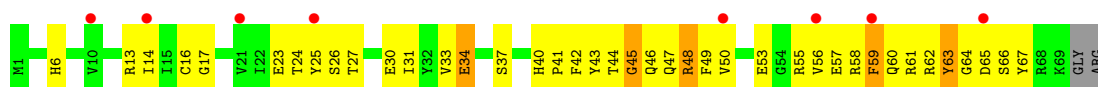
- Molecule 25: 50S ribosomal protein L30



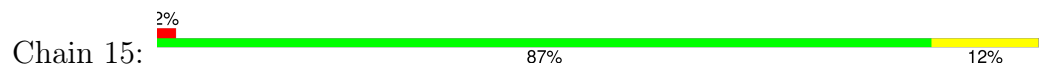
- Molecule 26: 50S ribosomal protein L31



- Molecule 26: 50S ribosomal protein L31

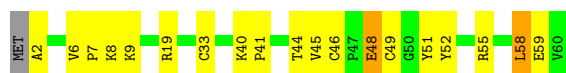


- Molecule 27: 50S ribosomal protein L32

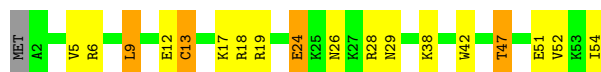


- Molecule 27: 50S ribosomal protein L32





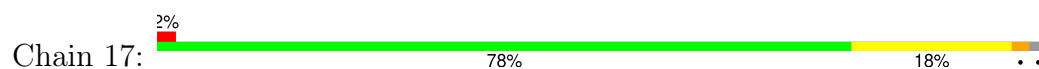
- Molecule 28: 50S ribosomal protein L33



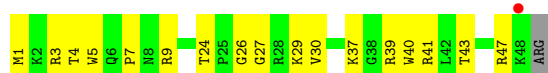
- Molecule 28: 50S ribosomal protein L33



- Molecule 29: 50S ribosomal protein L34



- Molecule 29: 50S ribosomal protein L34



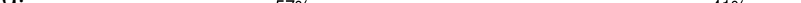
- Molecule 30: 50S ribosomal protein L35



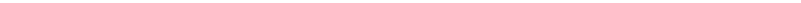
- Molecule 30: 50S ribosomal protein L35



- Molecule 31: 50S ribosomal protein L36

- Chain 29: 

Category	Count
M1	1
K2	1
S6	2
V7	1
K15	1
V16	1
I17	1
R18	1
G21	1
R22	1
V23	1
Y24	1
V25	1
I26	1
C27	1
E28	1
K33	1
Q34	1
R35	1
Q36	1
G37	1

- Chain 1a: 

[illegible]

A	U90	C91	C92	G93	G98	U99	C100	A101	G102	G103	G104	G105	G106	G107	C110	G111	G112	A116	A120	C121	G122	C123	A130	C131	A134	G138	G139	A140	A141	G142	A143	G144	G147	G148	A149	C150	A151	A152	C153	G154	C155	G159	A160	A161	A162	C163	G167
---	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

	A171	A172	U173	C174	C175	C176	C177	G181	U182	G183	C184	A185	C186	C187	C188	C189B	C189C	C189D	G189G	G189J	U189K	C189L	U190	C191	U192	C193	C194	A195	A196	A197	G200	C201	U202	C203	U204	U205	C216	C221	U222	U223	A223	G231	C232	C233	C234	C235	C236	C237	U244	C247
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

G250	G251	G254	G255	G256	G257	G258	G263	G264	G265	G266	G267	G268	G269	G270	G271	G276	G277	G278	G279	G280	G281	G289	G293	A298	A299	A300	G311	G312	A313	G314	A315	A316	G317	G318	G319	G320	A321	A325	G328	A329	G330	G331	G332	G337	A338	G339	G340
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

U343	U344	C345	G346	G351	C352	A353	G354	C355	A356	G357	U358	U359	G362	U365	C366	G367	U368	C369	C370	G371	C372	A373	A374	U375	G376	C381	A382	A383	G384	G389	A393	A397	C398	G399	C400	C401	C402	C403	U404	U405	G406	G407	A408	G409	A410	G411	A412	G413	C418	U421	A422	C423	G424	C425	A426	G427	C428	A429	G430	C431	A432	G433	C434	A435	G436	C437	A438	G439	C440	A441	G442	C443	A444	G445	C446	A447	G448	C449	A450	G451	C452	A453	G454	C455	A456	G457	C458	A459	G460	C461	A462	G463	C464	A465	G466	C467	A468	G469	C470	A471	G472	C473	A474	G475	C476	A477	G478	C479	A480	G481	C482	A483	G484	C485	A486	G487	C488	A489	G490	C491	A492	G493	C494	A495	G496	C497	A498	G499	C500	A501	G502	C503	A504	G505	C506	A507	G508	C509	A510	G511	C512	A513	G514	C515	A516	G517	C518	A519	G520	C521	A522	G523	C524	A525	G526	C527	A528	G529	C530	A531	G532	C533	A534	G535	C536	A537	G538	C539	A540	G541	C542	A543	G544	C545	A546	G547	C548	A549	G550	C551	A552	G553	C554	A555	G556	C557	A558	G559	C560	A561	G562	C563	A564	G565	C566	A567	G568	C569	A570	G571	C572	A573	G574	C575	A576	G577	C578	A579	G580	C581	A582	G583	C584	A585	G586	C587	A588	G589	C590	A591	G592	C593	A594	G595	C596	A597	G598	C599	A600	G601	C602	A603	G604	C605	A606	G607	C608	A609	G610	C611	A612	G613	C614	A615	G616	C617	A618	G619	C620	A621	G622	C623	A624	G625	C626	A627	G628	C629	A630	G631	C632	A633	G634	C635	A636	G637	C638	A639	G640	C641	A642	G643	C644	A645	G646	C647	A648	G649	C650	A651	G652	C653	A654	G655	C656	A657	G658	C659	A660	G661	C662	A663	G664	C665	A666	G667	C668	A669	G670	C671	A672	G673	C674	A675	G676	C677	A678	G679	C680	A681	G682	C683	A684	G685	C686	A687	G688	C689	A690	G691	C692	A693	G694	C695	A696	G697	C698	A699	G700	C701	A702	G703	C704	A705	G706	C707	A708	G709	C710	A711	G712	C713	A714	G715	C716	A717	G718	C719	A720	G721	C722	A723	G724	C725	A726	G727	C728	A729	G730	C731	A732	G733	C734	A735	G736	C737	A738	G739	C740	A741	G742	C743	A744	G745	C746	A747	G748	C749	A750	G751	C752	A753	G754	C755	A756	G757	C758	A759	G760	C761	A762	G763	C764	A765	G766	C767	A768	G769	C769	A770	G771	C772	A773	G774	C775	A776	G777	C778	A779	G780	C781	A782	G783	C784	A785	G786	C787	A788	G789	C789	A790	G791	C792	A793	G794	C795	A796	G797	C798	A799	G800	C801	A802	G803	C804	A805	G806	C807	A808	G809	C809	A810	G811	C812	A813	G814	C815	A816	G817	C818	A819	G820	C821	A822	G823	C824	A825	G826	C827	A828	G829	C829	A830	G831	C832	A833	G834	C835	A836	G837	C838	A839	G840	C841	A842	G843	C844	A845	G846	C847	A848	G849	C849	A850	G851	C852	A853	G854	C855	A856	G857	C858	A859	G860	C861	A862	G863	C864	A865	G866	C867	A868	G869	C869	A870	G871	C872	A873	G874
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

G423	G424	G425	G426	G427	G428	G429	G430	G431	G432	G433	G434	G435	G436	G437	G438	G439	G440	G441	G442	G443	G444	G445	G446	G447	G448	G449	G450	G451	G452	G453	G454	G455	G456	G457	G458	G459	G460	G461	G462	G463	G464	G465	G466	G467	G468	G469	G470	G471	G472	G473	G474	G475	G476	G477	G478	G479	G480	G481	G482	G483	G484	G485	G486	G487	G488	G489	G490	G491	G492	G493	G494	G495	G496	G497	G498	G499	G500	G501	G502	G503	G504	G505	G506	G507	G508	G509	G510	G511	G512	G513	G514	G515	G516	G517	G518	G519	G520	G521	G522	G523	G524	G525	G526	G527	G528	G529	G530	G531	G532	G533	G534	G535	G536	G537	G538	G539	G540	G541	G542	G543	G544	G545	G546	G547	G548	G549	G550	G551	G552	G553	G554	G555	G556	G557	G558	G559	G560	G561	G562	G563	G564	G565	G566	G567	G568	G569	G570	G571	G572	G573	G574	G575	G576	G577	G578	G579	G580	G581	G582	G583	G584	G585	G586	G587	G588	G589	G590	G591	G592	G593	G594	G595	G596	G597	G598	G599	G600	G601	G602	G603	G604	G605	G606	G607	G608	G609	G610	G611	G612	G613	G614	G615	G616	G617	G618	G619	G620	G621	G622	G623	G624	G625	G626	G627	G628	G629	G630	G631	G632	G633	G634	G635	G636	G637	G638	G639	G640	G641	G642	G643	G644	G645	G646	G647	G648	G649	G650	G651	G652	G653	G654	G655	G656	G657	G658	G659	G660	G661	G662	G663	G664	G665	G666	G667	G668	G669	G670	G671	G672	G673	G674	G675	G676	G677	G678	G679	G680	G681	G682	G683	G684	G685	G686	G687	G688	G689	G690	G691	G692	G693	G694	G695	G696	G697	G698	G699	G700	G701	G702	G703	G704	G705	G706	G707	G708	G709	G710	G711	G712	G713	G714	G715	G716	G717	G718	G719	G720	G721	G722	G723	G724	G725	G726	G727	G728	G729	G730	G731	G732	G733	G734	G735	G736	G737	G738	G739	G740	G741	G742	G743	G744	G745	G746	G747	G748	G749	G750	G751	G752	G753	G754	G755	G756	G757	G758	G759	G760	G761	G762	G763	G764	G765	G766	G767	G768	G769	G770	G771	G772	G773	G774	G775	G776	G777	G778	G779	G780	G781	G782	G783	G784	G785	G786	G787	G788	G789	G790	G791	G792	G793	G794	G795	G796	G797	G798	G799	G800	G801	G802	G803	G804	G805	G806	G807	G808	G809	G810	G811	G812	G813	G814	G815	G816	G817	G818	G819	G820	G821	G822	G823	G824	G825	G826	G827	G828	G829	G830	G831	G832	G833	G834	G835	G836	G837	G838	G839	G840	G841	G842	G843	G844	G845	G846	G847	G848	G849	G850	G851	G852	G853	G854	G855	G856	G857	G858	G859	G860	G861	G862	G863	G864	G865	G866	G867	G868	G869	G870	G871	G872	G873	G874	G875	G876	G877	G878	G879	G880	G881	G882	G883	G884	G885	G886	G887	G888	G889	G890	G891	G892	G893	G894	G895	G896	G897	G898	G899	G900	G901	G902	G903	G904	G905	G906	G907	G908	G909	G910	G911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	G927	G928	G929	G930	G931	G932	G933
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

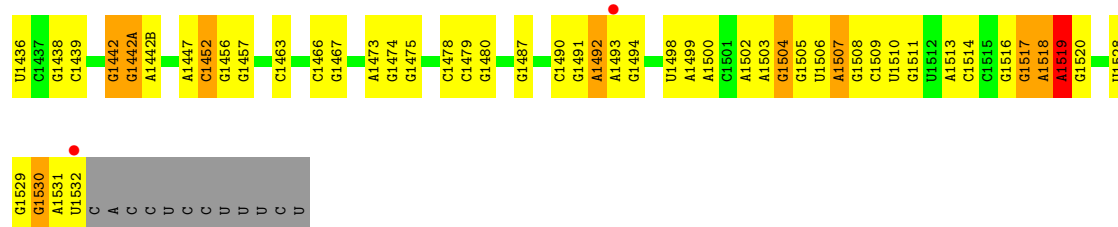
G515
 U516
 G517
 G518
 G519
 A520
 G521
 G524
 G525
 G526
 G527
 G528
 G529
 G530
 U531
 A532
 A533
 G536
 G537
 G538
 A539
 G540
 G541
 G542
 G545
 G546
 A547
 G550
 U551
 U552
 A553
 G557
 G558
 A559
 U560
 U561
 G564
 U565
 G566
 A572
 A573
 A574
 G575
 G576
 G577
 U580
 G581
 G584
 G592

G594	G595	G596	G600	G601	A602	A607	G610	G616	G617	A622	G623	G624	G625	U626	G627	G630	U636	G637	G638	G639	A640	U641	A642	G643	G644	A653	G657	G661	G664	A665	G666	G667	G671	U672	G673	G674	A675	G676	U677	U678	G679	G680	G683	A684	G685	G689
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

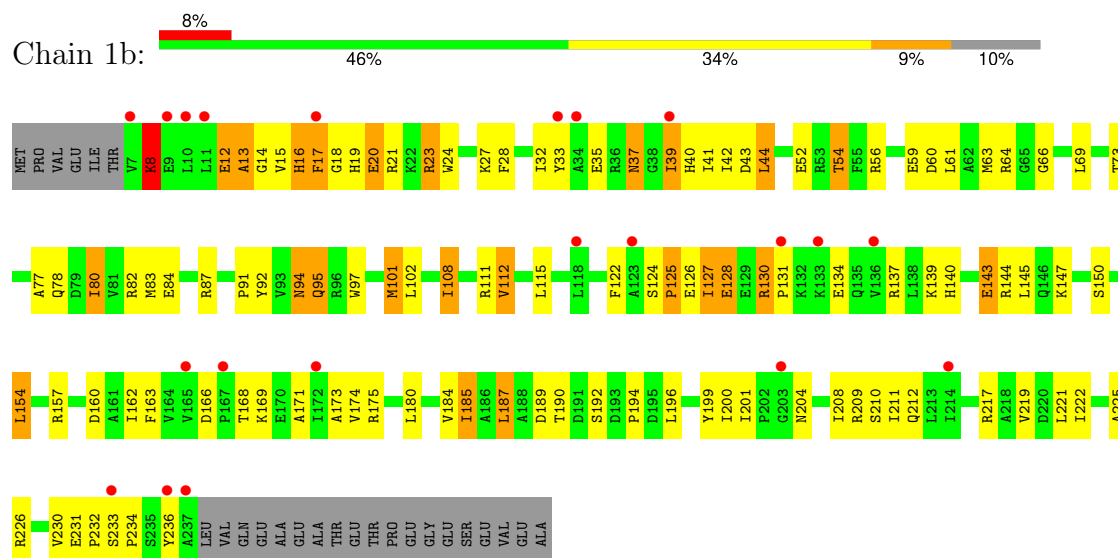
A687	G688	G689	G690	G691	G692	G693	A694	A695	A702	G708	G709	G713	G714	A715	G719	G720	G721	A722	U723	A728	A729	G730	G731	G734	G735	G736	G737	G738	G741	G742	G743	G744	G748	G749	G750	G753	G754	G755	G756	G757	G758	G759	G765	A766	G769	G774	G775	G776
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

A777
 U789
 A790
 G791
 A792
 U793
 A794
 G795
 C796
 G800
 U804
 C805
 C811
 C812
 A815
 A816
 C817
 G821
 C825
 G826
 C827
 U827
 A828
 C829
 G830
 U831
 C832
 C836
 G837
 G838
 U839
 C840
 U841
 C848
 C849
 U850
 G851
 G855
 A865
 U870
 U871
 A872
 A873
 G874
 C875
 G876
 C877
 C880

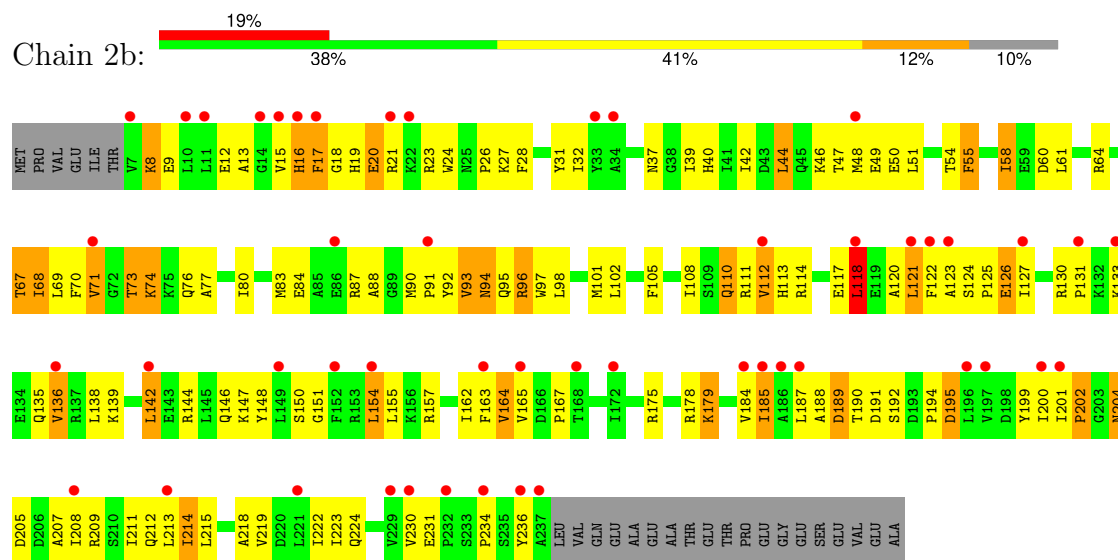
G1292	G1293	A1227	U1159	C1097	G1030C	C972	A901	A777	G688	C599	A535	A452	G384
G1294	G1295	C1228	G1160	C1098	A1030D	G973	A902	A778	G689	C600	C536	A453	C395
G1296	G1297	G1233	C1161	G1099	G1031	A974	G902	A779	G691	A601	G537	A454	G388
U1364	C1234	G1234	C1162	C1100	G1032	A975	G903	A780	G692	A602	G538	A455	A399
C1235	U1235	G1235	G1166	A1101	G1033	G976	U911	A781	G693	U603	A539	A456	C390
A1236	A1236	G1236	A1170	A1102	G1034	A977	C912	A782	G694	G460	G540	A457	G391
G1237	G1237	G1237	A1171	C1103	A1035	A978	G913	A783	A607	A461	G541	A458	G392
A1238	A1238	G1238	G1171	G1104	G1036	C979	A913	A784	A608	C470	G542	A459	A393
A1239	A1239	G1239	G1172	A1105	C1037	C980	A914	A785	A609	A471	G543	A460	A394
U1240	C1172	G1240	C1173	G1106	C1038	U981	A915	A786	G703	A472	G544	A461	G395
G1241	G1173	G1241	G1176	C1107	C1039	U982	G916	A787	G704	A473	G545	A462	A397
C1242	A1176	G1242	A1177	G1108	U1040	A983	G917	A788	C707	G474	G546	A463	C398
G1243	G1177	G1243	G1178	C1109	C1043	C984	A918	A789	G708	U480	A547	A464	
A1244	G1179	G1244	A1179	A1110	C1044	C985	A919	A790	G709	G481	U551	A465	C401
A1245	G1180	G1245	A1180	A1111	C1045	A986	A920	A791	G710	A482	U552	A466	G402
C1246	G1181	G1246	G1181	C1112	U1049	G987	U921	A792	G711	C483	A553	A467	U403
G1248	C1113	G1248	G1182	G1113	G1050	C988	G922	A793	G712	G484	C554	A468	U404
A1250	C1114	A1250	A1183	C1115	G1058	U997	A923	A794	G713	G485	C555	A469	U405
A1251	C1115	A1251	G1184	C1116	G1059	U998	A924	A795	G714	G486	C556	A470	G406
G1252	C1116	G1252	G1185	C1117	G1060	G993	G925	A796	G715	A487	G557	A471	G407
G1253	C1117	G1253	G1186	C1118	G1061	G994	G926	A797	G716	C488	G558	A472	
C1254	C1119	G1254	G1187	C1119	A1055	A996	G927	A798	G717	G492	G559	A473	U408
G1255	U1122	G1255	G1189	U1122	G1058	U997	C931	A799	G718	U489	G560	A474	
A1256	A1123	A1256	G1190	A1123	C1059	U998	C932	A800	G719	G490	G561	A475	G410
U1257	G1124	U1257	A1191	G1124	G1060	U999	C933	A801	G720	G491	G562	A476	A411
G1258	G1125	G1258	C1192	G1125	C1061	G993	C934	A802	G721	G492	G563	A477	A412
C1259	G1126	C1259	G1193	U1126	G1062	G994	A935	A803	G722	G493	G564	A478	G413
G1260	G1127	G1260	G1194	U1127	G1063	A995	C936	A804	G723	G494	G565	A479	A414
A1261	C1128	A1261	C1195	G1128	C1064	A996	A937	A805	G724	G495	G566	A480	G416
C1262	C1129	C1262	U1196	C1129	G1065	U997	A938	A806	G725	G496	G567	A481	C417
G1263	U1130	G1263	U1199	G1130	U1066	U998	C939	A807	G726	G497	G568	A482	C418
C1264	G1131	C1264	C1200	G1131	A1067	U999	C940	A808	G727	G498	G569	A483	C419
G1265	G1132	G1265	A1201	G1132	G1068	U999	C941	A809	G728	G499	G570	A484	U420
C1267	G1133	C1267	G1202	G1133	G1068	U999	C942	A810	G729	G500	G571	A485	G421
G1270	U1134	G1270	C1203	U1134	G1071	U999	A946	A811	G730	G501	G572	A486	G422
G1271	U1135	G1271	C1204	U1135	G1072	U999	C947	A812	G731	G502	G573	A487	G423
G1272	U1136	G1272	A1204	U1136	G1073	U999	C948	A813	G732	G503	G574	A488	G424
G1273	C1137	G1273	U1205	C1137	U1074	U999	C949	A814	G733	G504	G575	A489	G425
G1274	U1205	G1274	G1206	U1205	C1075	U999	C950	A815	G734	G505	G576	A490	G426
A1275	G1138	A1275	G1207	G1138	G1076	U999	C951	A816	G735	G506	G577	A491	U427
G1276	G1139	G1276	C1208	G1139	U1077	U999	C952	A817	G736	G507	G578	A492	G428
G1277	C1140	G1277	C1209	C1140	G1077	U999	C953	A818	G737	G508	G579	A493	U429
U1278	C1141	U1278	G1210	C1141	U1078	U999	C954	A819	G738	G509	G580	A494	A430
A1279	G1142	A1279	U1211	G1142	G1079	U999	C955	A820	G739	G510	G581	A495	A431
A1280	G1143	A1280	U1212	G1143	A1080	U999	C956	A821	G740	G511	G582	A496	A432
U1281	G1144	U1281	A1213	G1144	G1081	U999	C957	A822	G741	G512	G583	A497	C433
G1282	C1145	G1282	C1214	C1145	G1082	U999	C958	A823	G742	G513	G584	A498	U434
G1283	U1146	G1283	G1215	U1146	U1083	U999	C959	A824	G743	G514	G585	A499	C435
G1284	C1147	G1284	G1216	C1147	G1084	U999	C960	A825	G744	G515	G586	A500	G438
A1285	U1148	A1285	G1217	U1148	U1085	U999	C961	A826	G745	G516	G587	A501	A439
G1286	C1149	G1286	C1218	C1149	U1086	U999	C962	A827	G746	G517	G588	A502	A440
A1287	U1150	A1287	U1219	U1150	G1087	U999	C963	A828	G747	G518	G589	A503	C441
G1288	A1151	G1288	G1220	A1151	G1088	U999	C964	A829	G748	G519	G590	A504	C442
A1289	C1152	A1289	G1221	C1152	U1089	U999	C965	A830	G749	G520	G591	A505	C443
G1290	U1153	G1290	G1222	U1153	A1092	U999	C966	A831	G750	G521	G592	A506	C444
A1291	C1154	A1291	G1223	C1154	A1093	U999	C967	A832	G751	G522	G593	A507	A438
G1292	U1156	G1292	G1224	U1156	G1094	U999	C968	A833	G752	G523	G594	A508	A439
A1293	G1157	A1293	A1225	G1157	U1095	U999	C969	A834	G753	G524	G595	A509	A440
G1294	C1158	G1294	G1226	C1158	C1096	U999	C970	A835	G754	G525	G596	A510	C441
G1295	G1159	G1295	G1227	G1159	G1097	U999	C971	A836	G755	G526	G597	A511	C442
G1296	G1160	G1296	G1228	G1160	C1098	U999	C972	A837	G756	G527	G598	A512	C443
G1297	G1161	G1297	G1229	G1161	G1099	U999	C973	A838	G757	G528	G599	A513	C444
G1298	G1162	G1298	G1230	G1162	C1100	U999	C974	A839	G758	G529	G600	A514	A438
G1299	G1163	G1299	G1231	G1163	G1101	U999	C975	A840	G759	G530	G601	A515	A439
G1300	G1164	G1300	G1232	G1164	U1000	U999	C976	A841	G760	G531	G602	A516	A440
G1301	G1165	G1301	G1233	G1165	A1001	U999	C977	A842	G761	G532	G603	A517	A441
G1302	G1166	G1302	G1234	G1166	G1001A	U999	C978	A843	G762	G533	G604	A518	A442
G1303	G1167	G1303	G1235	G1167	G1002	U999	C979	A844	G763	G534	G605	A519	C443
G1304	G1168	G1304	G1236	G1168	G1003	U999	C980	A845	G764	G535	G606	A520	C435
G1305	G1169	G1305	G1237	G1169	G1004	U999	C981	A846	G765	G536	G607	A521	G438
A1306	G1170	A1306	G1238	G1170	A1005	U999	C982	A847	G766	G537	G608	A522	A439
G1307	G1171	G1307	G1239	G1171	U1006	U999	C983	A848	G767	G538	G609	A523	A440
G1308	G1172	G1308	G1240	G1172	G1007	U999	C984	A849	G768	G539	G610	A524	A441
G1309	G1173	G1309	G1241	G1173	U1008	U999	C985	A850	G769	G540	G611	A525	C442
G1310	G1174	G1310	G1242	G1174	G1009	U999	C986	A851	G770	G541	G612	A526	C443
G1311	G1175	G1311	G1243	G1175	C1010	U999	C987	A852	G771	G542	G613	A527	C444
G1312	G1176	G1312	G1244	G1176	G1011	U999	C988	A853	G772	G543	G614	A528	A445
U1312	G1177	U1312	G1245	G1177	U1012	U999	C989	A854	G773	G544	G615	A529	A446
G1313	G1178	G1313	G1246	G1178	G1013	U999	C990	A855	G774	G545	G616	A530	A447
G1314	G1179	G1314	G1247	G1179	U1014	U999	C991	A856	G775	G546	G617	A531	A448
G1315	G1180	G1315	G1248	G1180	G1015	U999	C992	A857	G776	G547	G618	A532	A449
G1316	G1181	G1316	G1249	G1181	U1016	U999	C993	A858	G777	G548	G619	A533	C440
G1317	G1182	G1317	G1250	G1182	G1017	U999	C994	A859	G778	G549	G620	A534	C441
A1318	G1183	A1318	G1251	G1183	U1018	U999	C995	A860	G779	G550	G621	A535	A442
G1319	G1184	G1319	G1252	G1184	G1019	U999	C996	A861	G780	G551	G622	A536	A443
C1320	G1185	C1320	G1253	G1185	C1020	U999	C997	A862	G781	G552	G623	A537	A444
G1321	G1186	G1321	G1254	G1186	G1021	U999	C998	A863	G782	G553	G624	A538	A445
C1322	G1187	C1322	G1255	G1187	U1022	U999	C999	A864	G783	G554	G625	A539	A446
G1323	G1188	G1323	G1256	G1188	G1023	U999	C1000	A865	G784	G555	G626	A540	A447
A1324	G1189	A1324	G1257	G1189	G1024	U999	C1001	A866	G785	G556	G627	A541	A448
G1325	G1190	G1325	G1258	G1190	U1025	U999	C1002	A867	G786	G557	G628	A542	A449
C1326	G1191	C1326	G1259	G1191	G1026	U999	C1003	A868	G787	G558	G629	A543	A450
G1327	G1192	G1327	G1260	G1192	U1027	U999	C1004	A869	G788	G559	G630	A544	A451
C1328	G1193	C1328	G1261	G1193	G1028	U999	C1005	A870	G789	G560	G631	A545	A452
U1330	G1194	U1330	G1262	G1194	U1029	U999	C1006	A871	G790	G561	G632	A546	A453
G1331	G1195	G1331	G1263	G1195	G1030	U999	C1007	A872	G791	G562	G633	A547	A454
A1332	G1196	A1332	G1264	G1196	G1031	U999	C1008	A873	G792	G563	G634	A548	A455
C1336	G1197	C1336	G1265	G1197	U1032	U999	C1009	A874	G793	G564	G635	A549	A456
G1342	G1198	G1342	G1266	G1198	G1033	U999	C1010	A875	G794	G565	G636	A550	A457
G1343	G1199												



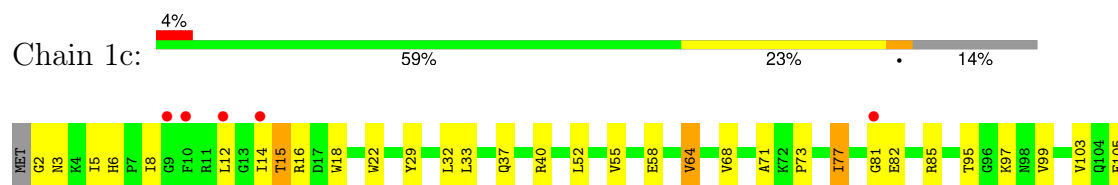
• Molecule 33: 30S ribosomal protein S2

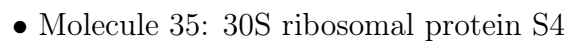
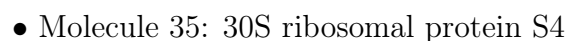
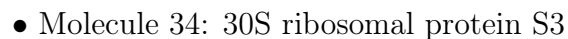


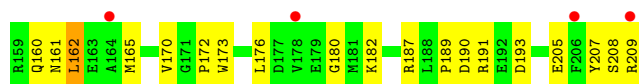
• Molecule 33: 30S ribosomal protein S2



• Molecule 34: 30S ribosomal protein S3



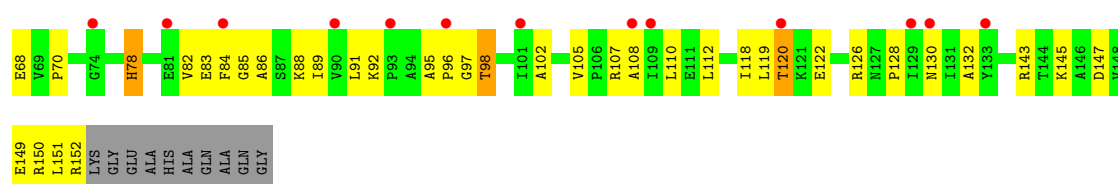
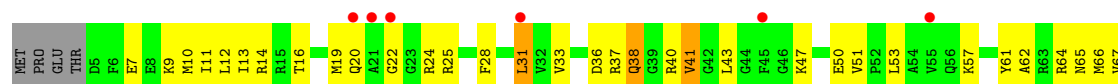




- Molecule 36: 30S ribosomal protein S5



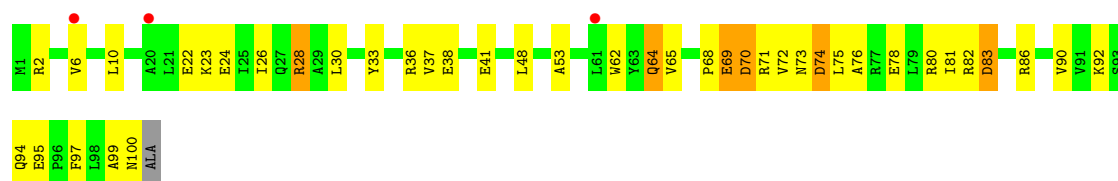
- Molecule 36: 30S ribosomal protein S5



- Molecule 37: 30S ribosomal protein S6

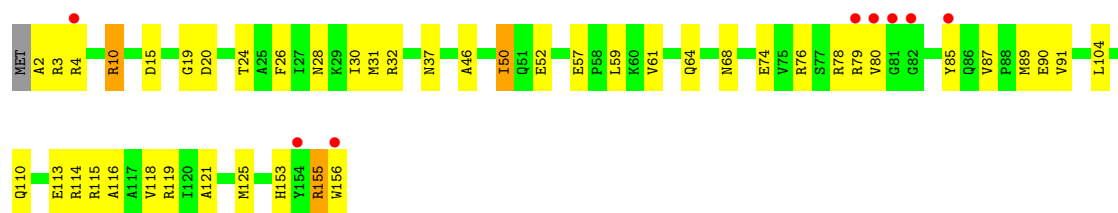


- Molecule 37: 30S ribosomal protein S6

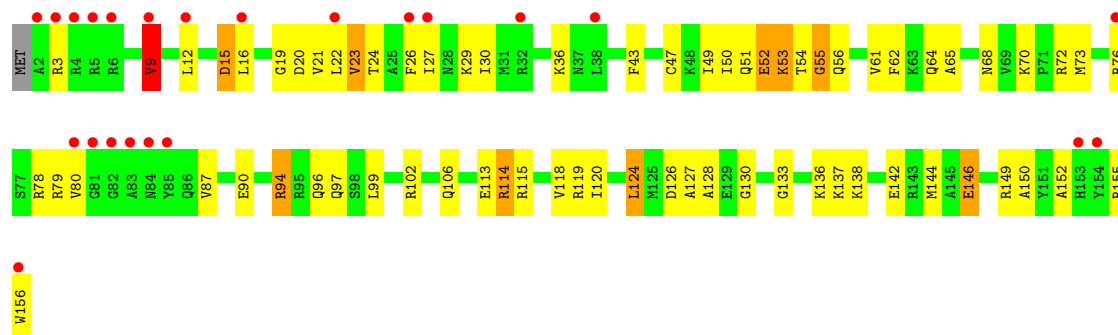


- Molecule 38: 30S ribosomal protein S7

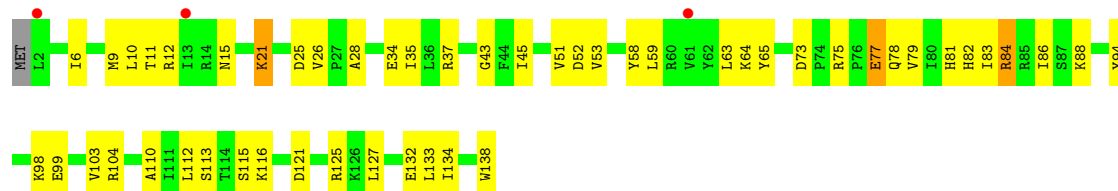




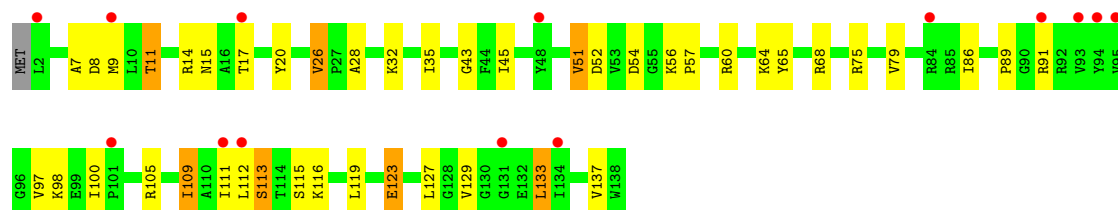
• Molecule 38: 30S ribosomal protein S7



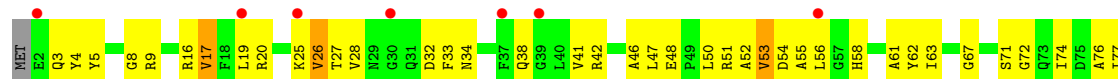
• Molecule 39: 30S ribosomal protein S8

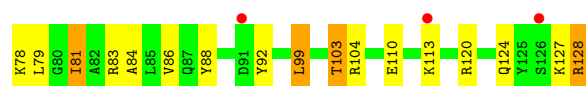


• Molecule 39: 30S ribosomal protein S8

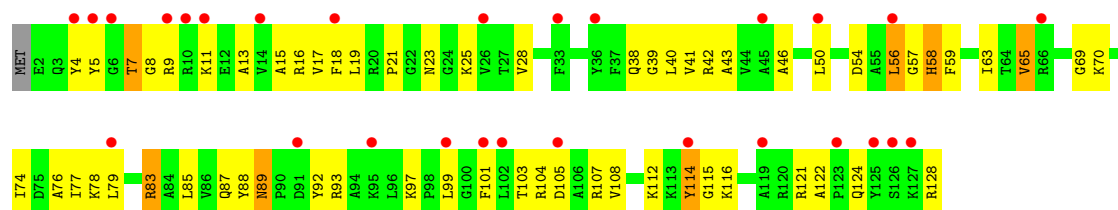


• Molecule 40: 30S ribosomal protein S9

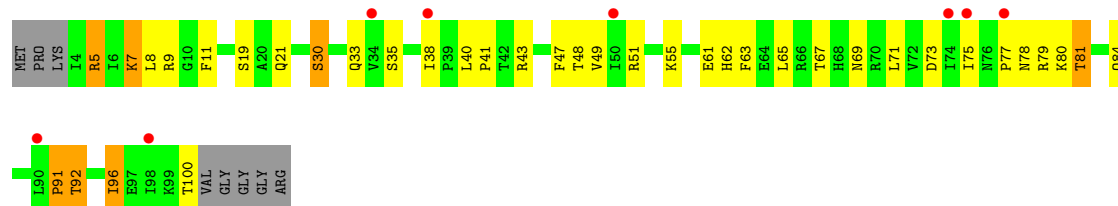




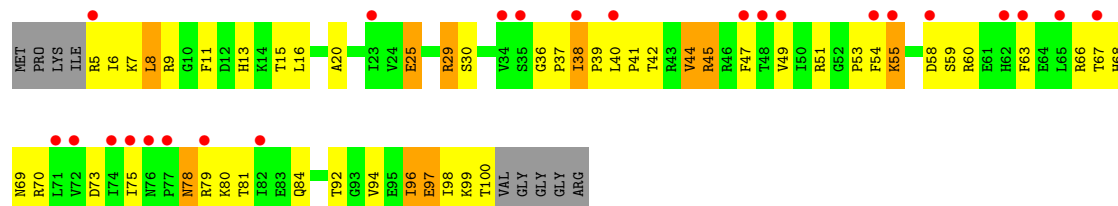
• Molecule 40: 30S ribosomal protein S9



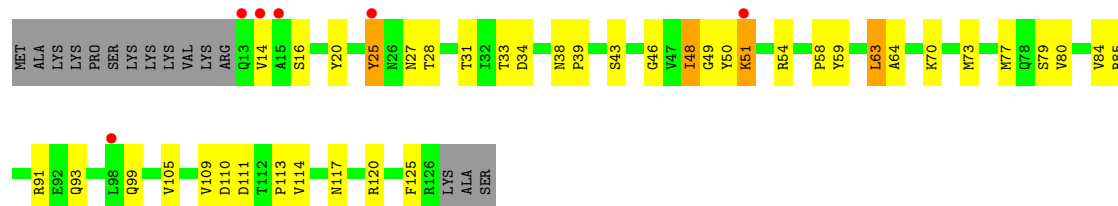
• Molecule 41: 30S ribosomal protein S10



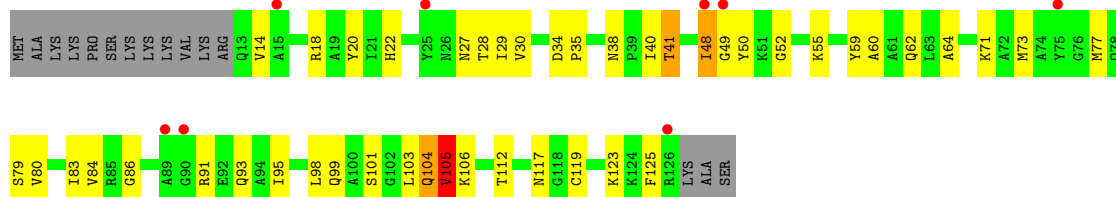
• Molecule 41: 30S ribosomal protein S10



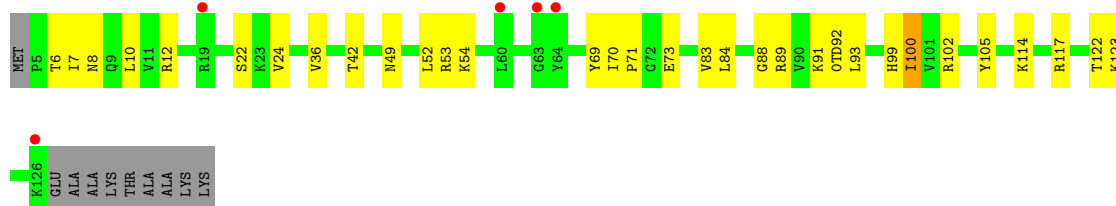
• Molecule 42: 30S ribosomal protein S11



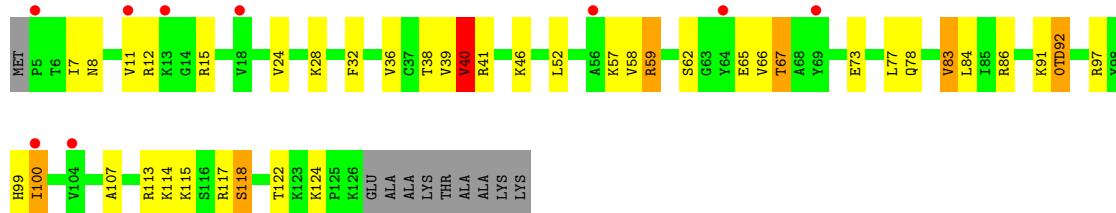
• Molecule 42: 30S ribosomal protein S11



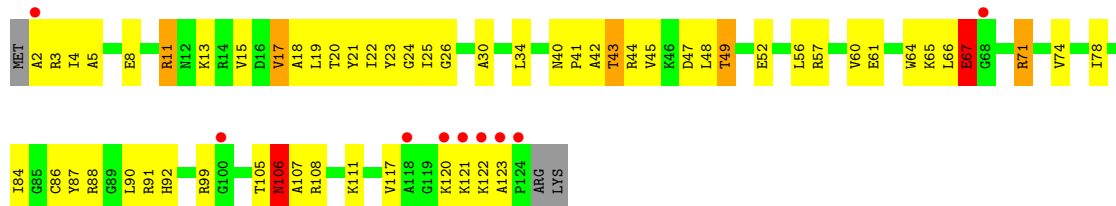
- Molecule 43: 30S ribosomal protein S12



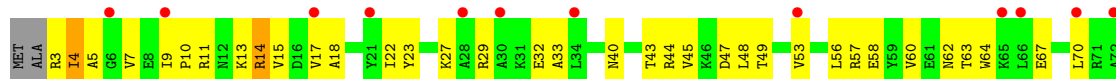
- Molecule 43: 30S ribosomal protein S12



- Molecule 44: 30S ribosomal protein S13



- Molecule 44: 30S ribosomal protein S13





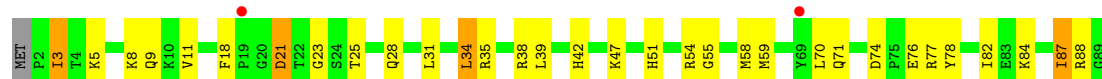
- Molecule 45: 30S ribosomal protein S14 type Z



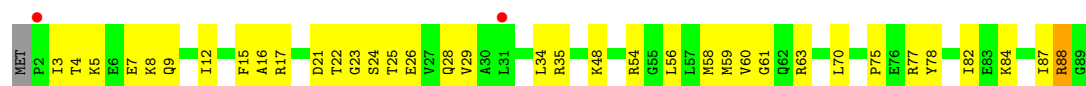
- Molecule 45: 30S ribosomal protein S14 type Z



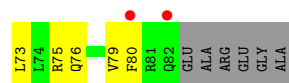
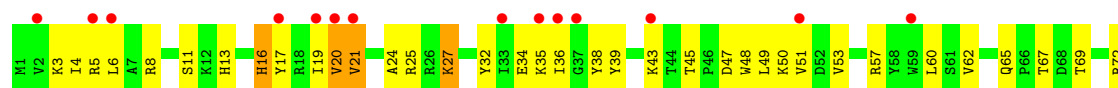
- Molecule 46: 30S ribosomal protein S15



- Molecule 46: 30S ribosomal protein S15

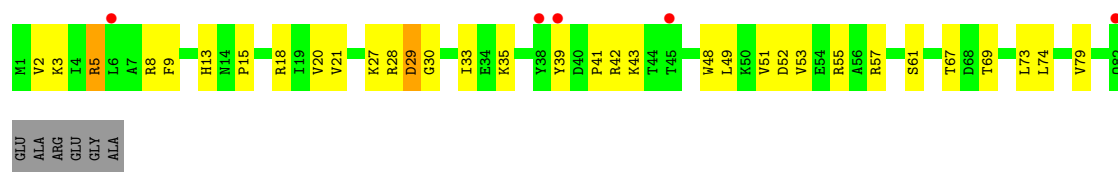


- Molecule 47: 30S ribosomal protein S16

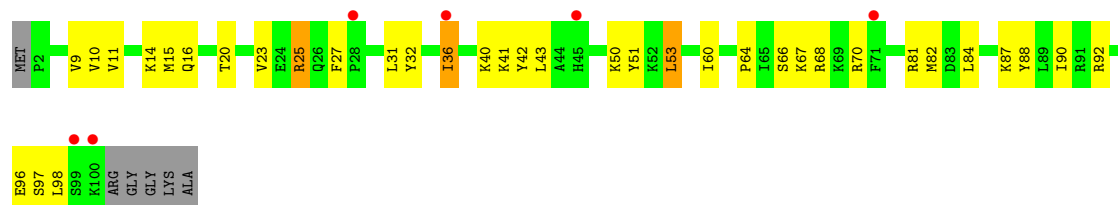


- Molecule 47: 30S ribosomal protein S16

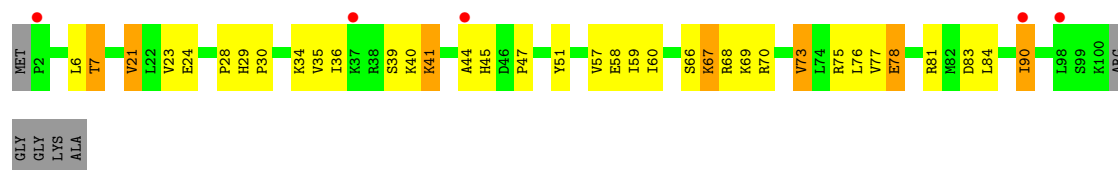




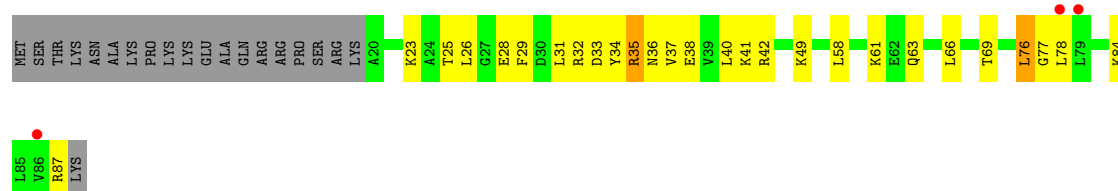
- Molecule 48: 30S ribosomal protein S17



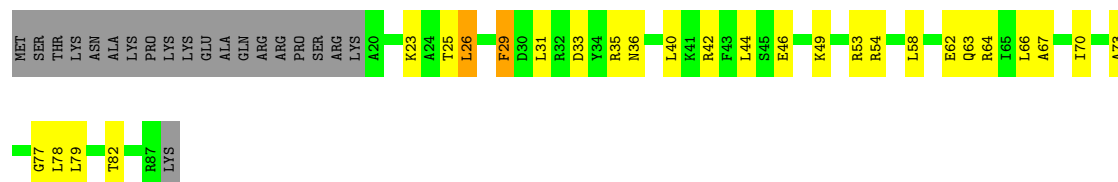
- Molecule 48: 30S ribosomal protein S17



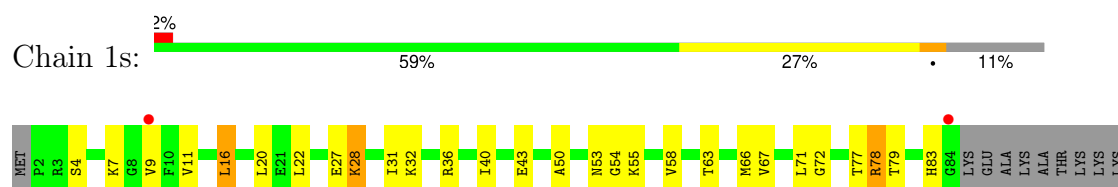
- Molecule 49: 30S ribosomal protein S18



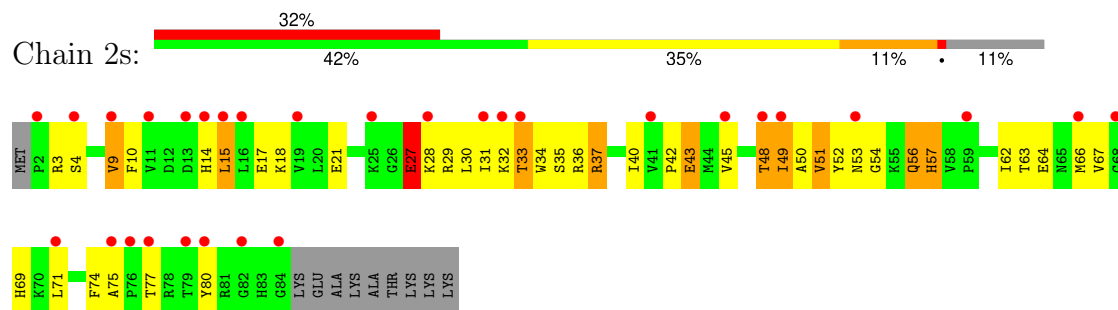
- Molecule 49: 30S ribosomal protein S18



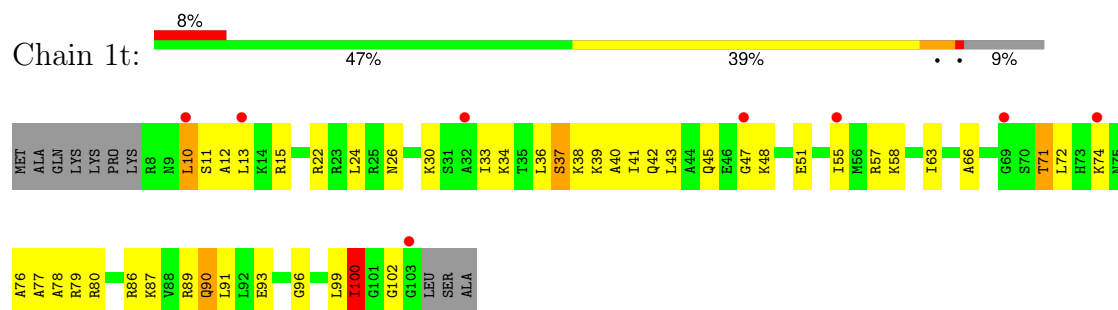
- Molecule 50: 30S ribosomal protein S19



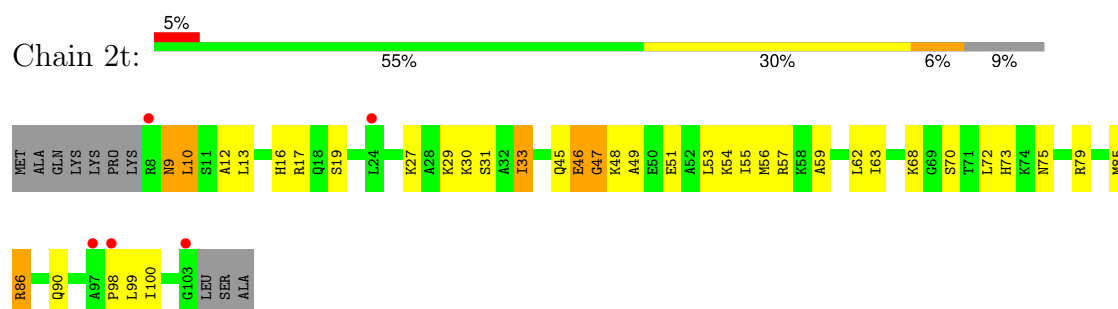
• Molecule 50: 30S ribosomal protein S19



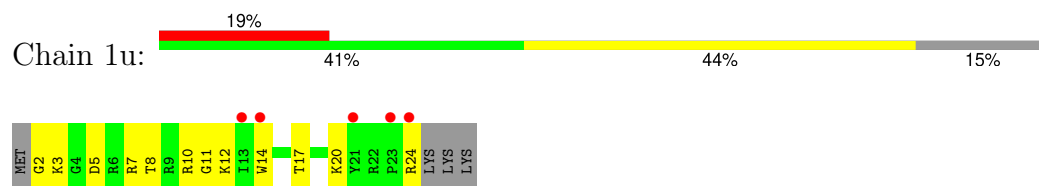
• Molecule 51: 30S ribosomal protein S20



• Molecule 51: 30S ribosomal protein S20



• Molecule 52: 30S ribosomal protein Thx

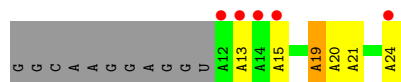
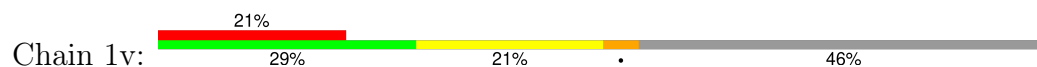


• Molecule 52: 30S ribosomal protein Thx

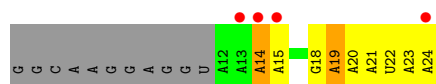




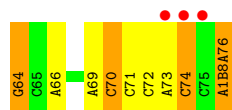
• Molecule 53: MET-LYS-mRNA



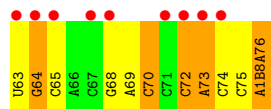
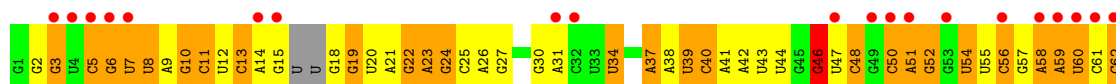
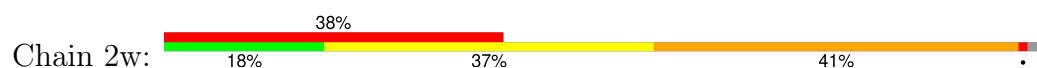
• Molecule 53: MET-LYS-mRNA



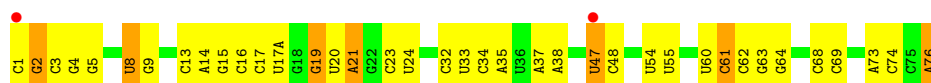
• Molecule 54: A-site Aminoacyl-tRNA Lys-tRNAlys



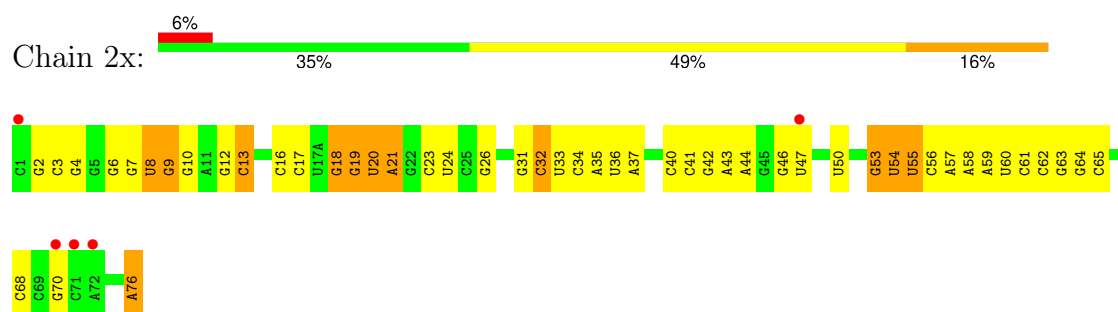
• Molecule 54: A-site Aminoacyl-tRNA Lys-tRNAlys



• Molecule 55: P-site Peptidyl-tRNA fMRC-tRNAcys RNA-part



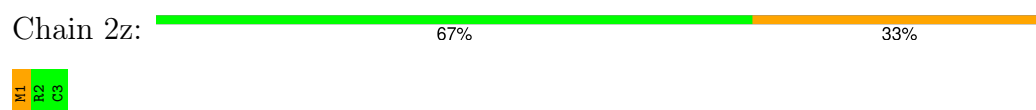
• Molecule 55: P-site Peptidyl-tRNA fMRC-tRNAcys RNA-part



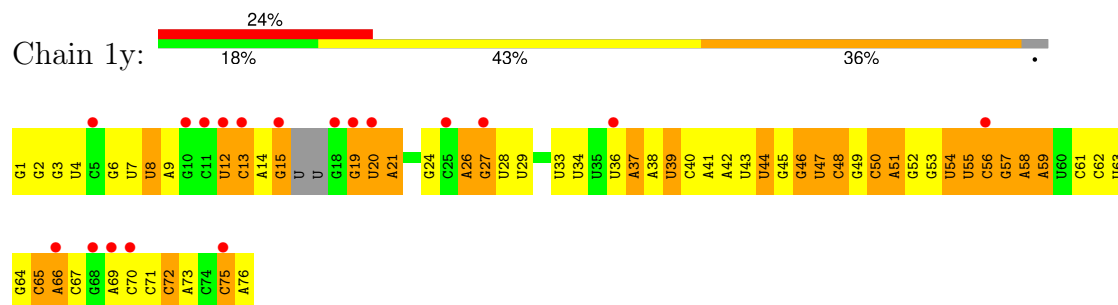
- Molecule 56: P-site Peptidyl-tRNA fMRC-tRNA_{cys} Peptide-part



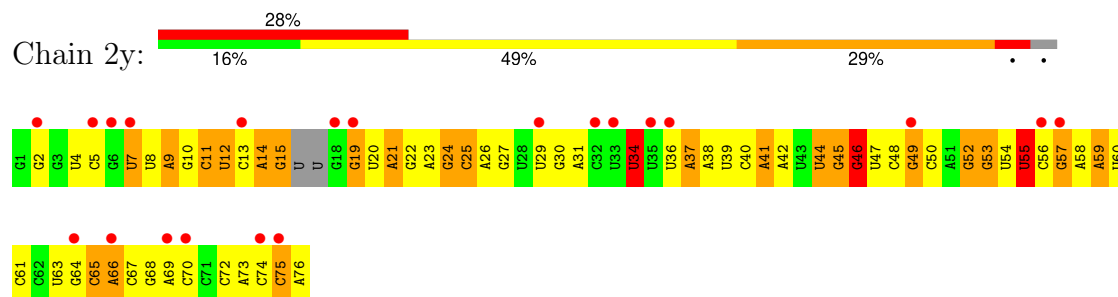
- Molecule 56: P-site Peptidyl-tRNA fMRC-tRNA_{cys} Peptide-part



- Molecule 57: E-site Deacylated tRNA_{lys}



- Molecule 57: E-site Deacylated tRNA_{lys}



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.56Å 449.05Å 616.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	123.94 – 2.60 123.94 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.9 (123.94-2.60) 99.9 (123.94-2.60)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 2.62Å)	Xtriage
Refinement program	PHENIX 1.17.1	Depositor
R, R_{free}	0.229 , 0.278 0.232 , 0.279	Depositor DCC
R_{free} test set	87740 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	55.2	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 55.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.36$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	299808	wwPDB-VP
Average B, all atoms (Å ²)	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.59% 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: T6A, M2G, 0TD, 8AN, U8U, MA6, MG, OMU, 4OC, PSU, 4SU, 2MG, OMG, UR3, OMC, SF4, 2MA, A1B8A, 5MC, FME, ZN, G7M, 5MU, 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	0.29	1/69011 (0.0%)	0.47	1/107720 (0.0%)
1	2A	0.22	1/67295 (0.0%)	0.41	1/105042 (0.0%)
2	1B	0.24	0/2882	0.42	0/4494
2	2B	0.19	0/2879	0.37	0/4487
3	1D	0.29	0/2186	0.51	0/2944
3	2D	0.23	0/2186	0.47	0/2944
4	1E	0.26	0/1592	0.54	0/2149
4	2E	0.21	0/1592	0.45	0/2149
5	1F	0.25	0/1619	0.48	0/2193
5	2F	0.22	0/1615	0.47	3/2188 (0.1%)
6	1G	0.22	0/1448	0.47	1/1957 (0.1%)
6	2G	0.23	0/1453	0.50	1/1963 (0.1%)
7	1H	0.23	0/1356	0.43	0/1834
7	2H	0.19	0/1356	0.40	0/1834
8	1I	0.18	0/1112	0.42	0/1514
8	2I	0.22	0/1079	0.48	0/1475
9	1N	0.25	0/1144	0.49	0/1543
9	2N	0.20	0/1144	0.40	0/1543
10	1O	0.28	0/943	0.49	0/1269
10	2O	0.22	0/943	0.50	0/1269
11	1P	0.26	0/1152	0.50	0/1533
11	2P	0.21	0/1152	0.48	0/1533
12	1Q	0.28	0/1143	0.49	0/1527
12	2Q	0.22	0/1143	0.47	0/1527
13	1R	0.27	0/982	0.50	0/1312
13	2R	0.22	0/982	0.46	0/1312
14	1S	0.21	0/883	0.48	0/1176
14	2S	0.21	0/880	0.46	0/1172
15	1T	0.25	0/1105	0.48	0/1477
15	2T	0.22	0/1097	0.48	0/1468
16	1U	0.28	0/977	0.48	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.19	0/977	0.41	0/1301
17	1V	0.26	0/782	0.47	0/1049
17	2V	0.18	0/782	0.39	0/1049
18	1W	0.27	0/897	0.45	0/1205
18	2W	0.21	0/897	0.44	0/1205
19	1X	0.26	0/764	0.55	2/1025 (0.2%)
19	2X	0.23	0/764	0.61	2/1025 (0.2%)
20	1Y	0.23	0/819	0.44	0/1095
20	2Y	0.20	0/819	0.47	1/1095 (0.1%)
21	1Z	0.23	0/1267	0.48	0/1717
21	2Z	0.22	0/1299	0.42	0/1763
22	10	0.27	0/662	0.52	0/881
22	20	0.23	0/662	0.53	0/881
23	11	0.27	0/762	0.46	0/1014
23	21	0.21	0/762	0.41	0/1014
24	12	0.23	0/590	0.43	0/781
24	22	0.22	0/590	0.42	0/781
25	13	0.26	0/474	0.45	0/635
25	23	0.18	0/469	0.39	0/630
26	14	0.25	0/565	0.58	1/761 (0.1%)
26	24	0.28	0/545	0.56	0/737
27	15	0.27	0/469	0.47	0/635
27	25	0.23	0/469	0.48	0/635
28	16	0.29	0/460	0.50	0/613
28	26	0.21	0/456	0.45	0/608
29	17	0.33	0/426	0.56	0/561
29	27	0.25	0/426	0.51	0/561
30	18	0.28	0/525	0.52	0/691
30	28	0.21	0/525	0.42	0/691
31	19	0.27	0/310	0.56	0/407
31	29	0.20	0/310	0.42	0/407
32	1a	0.20	0/35795	0.39	0/55864
32	2a	0.19	0/35886	0.38	1/56005 (0.0%)
33	1b	0.21	0/1881	0.47	0/2542
33	2b	0.26	0/1860	0.52	0/2518
34	1c	0.18	0/1572	0.39	0/2126
34	2c	0.23	0/1566	0.51	1/2119 (0.0%)
35	1d	0.20	0/1685	0.45	0/2262
35	2d	0.21	0/1704	0.46	0/2284
36	1e	0.22	0/1145	0.47	0/1543
36	2e	0.21	0/1149	0.48	0/1548
37	1f	0.18	0/823	0.39	0/1115
37	2f	0.20	0/829	0.43	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.20	0/1250	0.42	0/1679
38	2g	0.20	0/1254	0.41	0/1683
39	1h	0.19	0/1108	0.41	0/1494
39	2h	0.19	0/1108	0.43	0/1494
40	1i	0.21	0/1002	0.49	0/1346
40	2i	0.23	0/997	0.55	0/1343
41	1j	0.22	0/722	0.47	0/982
41	2j	0.21	0/727	0.46	0/988
42	1k	0.23	0/844	0.43	0/1145
42	2k	0.20	0/848	0.41	0/1149
43	1l	0.20	0/937	0.42	0/1260
43	2l	0.20	0/937	0.45	0/1260
44	1m	0.21	0/969	0.51	0/1302
44	2m	0.21	0/961	0.45	0/1291
45	1n	0.19	0/501	0.41	0/664
45	2n	0.20	0/501	0.45	0/664
46	1o	0.19	0/739	0.43	0/985
46	2o	0.18	0/739	0.40	0/985
47	1p	0.20	0/697	0.45	0/939
47	2p	0.19	0/693	0.49	0/935
48	1q	0.20	0/836	0.42	0/1117
48	2q	0.21	0/836	0.46	0/1117
49	1r	0.20	0/560	0.45	0/746
49	2r	0.19	0/560	0.47	0/746
50	1s	0.19	0/667	0.50	0/900
50	2s	0.24	0/661	0.58	2/893 (0.2%)
51	1t	0.21	0/730	0.48	0/965
51	2t	0.21	0/729	0.48	0/965
52	1u	0.19	0/203	0.43	0/266
52	2u	0.36	0/203	0.58	0/266
53	1v	0.23	0/319	0.40	0/495
53	2v	0.21	0/319	0.44	0/495
54	1w	0.32	2/1593 (0.1%)	0.39	0/2474
54	2w	0.36	2/1593 (0.1%)	0.52	0/2474
55	1x	0.27	0/1723	0.41	0/2684
55	2x	0.25	0/1723	0.40	0/2684
56	1z	0.54	0/16	0.89	0/19
56	2z	0.57	0/16	0.63	0/19
57	1y	0.31	1/1618 (0.1%)	0.45	0/2513
57	2y	0.35	2/1618 (0.1%)	0.53	0/2513
All	All	0.24	9/316807 (0.0%)	0.44	17/474290 (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
12	1Q	0	1
26	24	0	1
33	1b	0	1
33	2b	0	1
51	1t	0	1
All	All	0	5

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	46	G7M	O3'-P	6.04	1.62	1.56
54	2w	46	G7M	O3'-P	5.90	1.62	1.56
57	2y	46	G7M	O3'-P	5.57	1.61	1.56
1	1A	2552	OMU	O3'-P	5.55	1.61	1.56
54	2w	37	T6A	O3'-P	5.41	1.61	1.56

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	2X	94	GLY	CA-C-N	8.05	136.18	121.70
19	2X	94	GLY	C-N-CA	8.05	136.18	121.70
34	2c	84	ILE	N-CA-C	-6.13	105.04	113.00
6	1G	96	ARG	CB-CA-C	-5.96	109.69	116.54
1	1A	1992	G	C2'-C3'-O3'	5.83	118.25	109.50

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
12	1Q	15	GLY	Peptide
33	1b	130	ARG	Peptide
51	1t	99	LEU	Peptide
26	24	59	PHE	Peptide
33	2b	118	LEU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61852	0	31192	762	0
1	2A	60322	0	30422	849	0
2	1B	2577	0	1304	30	0
2	2B	2575	0	1303	61	0
3	1D	2136	0	2218	54	0
3	2D	2136	0	2218	55	0
4	1E	1559	0	1618	32	0
4	2E	1559	0	1618	49	0
5	1F	1584	0	1625	50	0
5	2F	1580	0	1619	55	0
6	1G	1423	0	1436	47	0
6	2G	1428	0	1438	73	0
7	1H	1330	0	1407	20	0
7	2H	1330	0	1407	48	0
8	1I	1097	0	1140	38	0
8	2I	1064	0	1082	55	0
9	1N	1117	0	1184	23	0
9	2N	1117	0	1184	33	0
10	1O	933	0	996	25	0
10	2O	933	0	996	33	0
11	1P	1135	0	1212	40	0
11	2P	1135	0	1212	44	0
12	1Q	1122	0	1179	30	0
12	2Q	1122	0	1179	47	0
13	1R	968	0	1033	16	0
13	2R	968	0	1033	20	0
14	1S	873	0	927	19	0
14	2S	870	0	923	54	0
15	1T	1091	0	1151	30	0
15	2T	1083	0	1136	38	0
16	1U	959	0	1019	20	0
16	2U	959	0	1019	30	0
17	1V	771	0	830	16	0
17	2V	771	0	830	29	0
18	1W	886	0	940	18	0
18	2W	886	0	940	15	0
19	1X	750	0	814	19	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	2X	750	0	813	23	0
20	1Y	806	0	881	22	0
20	2Y	806	0	881	23	0
21	1Z	1240	0	1240	38	0
21	2Z	1271	0	1273	56	0
22	10	653	0	674	21	0
22	20	653	0	674	18	0
23	11	755	0	826	24	0
23	21	755	0	825	20	0
24	12	588	0	643	9	0
24	22	588	0	643	22	0
25	13	469	0	518	18	0
25	23	464	0	514	13	0
26	14	552	0	533	21	0
26	24	532	0	503	32	0
27	15	455	0	465	4	0
27	25	455	0	465	11	0
28	16	453	0	473	10	0
28	26	449	0	469	16	0
29	17	418	0	467	6	0
29	27	418	0	467	11	0
30	18	517	0	582	14	0
30	28	517	0	582	14	0
31	19	307	0	335	2	0
31	29	307	0	335	13	0
32	1a	32246	0	16293	497	0
32	2a	32327	0	16338	653	0
33	1b	1846	0	1867	68	0
33	2b	1825	0	1828	93	0
34	1c	1548	0	1535	43	0
34	2c	1542	0	1517	69	0
35	1d	1655	0	1672	56	0
35	2d	1674	0	1714	63	0
36	1e	1129	0	1185	43	0
36	2e	1133	0	1191	48	0
37	1f	810	0	804	22	0
37	2f	816	0	808	27	0
38	1g	1231	0	1238	31	0
38	2g	1235	0	1249	47	0
39	1h	1088	0	1126	31	0
39	2h	1088	0	1126	28	0
40	1i	983	0	986	41	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	2i	978	0	966	53	0
41	1j	709	0	650	31	0
41	2j	714	0	672	39	0
42	1k	829	0	825	23	0
42	2k	833	0	834	26	0
43	1l	932	0	981	21	0
43	2l	932	0	981	32	0
44	1m	958	0	1002	40	0
44	2m	950	0	988	46	0
45	1n	492	0	529	21	0
45	2n	492	0	529	25	0
46	1o	728	0	760	21	0
46	2o	728	0	760	22	0
47	1p	681	0	697	33	0
47	2p	677	0	686	22	0
48	1q	823	0	891	24	0
48	2q	823	0	891	26	0
49	1r	555	0	618	20	0
49	2r	555	0	618	19	0
50	1s	652	0	662	21	0
50	2s	646	0	644	38	0
51	1t	728	0	798	29	0
51	2t	727	0	796	26	0
52	1u	199	0	208	9	0
52	2u	199	0	208	11	0
53	1v	283	0	142	8	0
53	2v	283	0	141	7	0
54	1w	1599	0	801	35	0
54	2w	1599	0	801	65	0
55	1x	1646	0	839	22	0
55	2x	1646	0	839	33	0
56	1z	27	0	28	1	0
56	2z	27	0	28	1	0
57	1y	1577	0	799	42	0
57	2y	1577	0	798	47	0
58	10	9	0	0	0	0
58	11	5	0	0	0	0
58	12	2	0	0	0	0
58	13	5	0	0	0	0
58	14	1	0	0	0	0
58	15	6	0	0	0	0
58	16	2	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	17	6	0	0	0	0
58	18	9	0	0	0	0
58	1A	1096	0	0	0	0
58	1B	37	0	0	0	0
58	1D	13	0	0	0	0
58	1E	16	0	0	0	0
58	1F	13	0	0	0	0
58	1G	5	0	0	0	0
58	1H	1	0	0	0	0
58	1I	1	0	0	0	0
58	1N	5	0	0	0	0
58	1O	4	0	0	0	0
58	1P	6	0	0	0	0
58	1Q	7	0	0	0	0
58	1R	4	0	0	0	0
58	1S	3	0	0	0	0
58	1T	2	0	0	0	0
58	1U	9	0	0	0	0
58	1V	9	0	0	0	0
58	1W	7	0	0	0	0
58	1X	5	0	0	0	0
58	1Y	3	0	0	0	0
58	1Z	2	0	0	0	0
58	1a	210	0	0	0	0
58	1b	1	0	0	0	0
58	1d	1	0	0	0	0
58	1e	2	0	0	0	0
58	1f	1	0	0	0	0
58	1k	1	0	0	0	0
58	1l	2	0	0	0	0
58	1m	1	0	0	0	0
58	1n	2	0	0	0	0
58	1p	1	0	0	0	0
58	1t	1	0	0	0	0
58	1v	1	0	0	0	0
58	1w	3	0	0	0	0
58	1x	11	0	0	0	0
58	20	4	0	0	0	0
58	23	4	0	0	0	0
58	25	5	0	0	0	0
58	27	3	0	0	0	0
58	28	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	2A	863	0	0	0	0
58	2B	20	0	0	0	0
58	2D	7	0	0	0	0
58	2E	7	0	0	0	0
58	2F	7	0	0	0	0
58	2G	1	0	0	0	0
58	2O	2	0	0	0	0
58	2P	3	0	0	0	0
58	2Q	2	0	0	0	0
58	2R	2	0	0	0	0
58	2T	3	0	0	0	0
58	2U	2	0	0	0	0
58	2V	2	0	0	0	0
58	2W	2	0	0	0	0
58	2X	1	0	0	0	0
58	2Y	1	0	0	0	0
58	2Z	1	0	0	0	0
58	2a	230	0	0	0	0
58	2d	2	0	0	0	0
58	2e	1	0	0	0	0
58	2f	2	0	0	0	0
58	2g	1	0	0	0	0
58	2i	1	0	0	0	0
58	2j	1	0	0	0	0
58	2k	1	0	0	0	0
58	2l	4	0	0	0	0
58	2n	1	0	0	0	0
58	2q	2	0	0	0	0
58	2r	1	0	0	0	0
58	2t	1	0	0	0	0
58	2v	4	0	0	0	0
58	2w	1	0	0	0	0
58	2x	6	0	0	0	0
58	2y	1	0	0	0	0
59	1A	1	0	0	0	0
59	2A	1	0	0	0	0
60	14	1	0	0	0	0
60	15	1	0	0	0	0
60	16	1	0	0	0	0
60	19	1	0	0	0	0
60	1Y	1	0	0	0	0
60	1n	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	24	1	0	0	0	0
60	25	1	0	0	0	0
60	26	1	0	0	0	0
60	29	1	0	0	0	0
60	2Y	1	0	0	0	0
60	2n	1	0	0	0	0
61	1d	8	0	0	0	0
61	2d	8	0	0	0	0
62	10	10	0	0	1	0
62	11	12	0	0	0	0
62	12	3	0	0	0	0
62	13	4	0	0	0	0
62	14	1	0	0	0	0
62	15	7	0	0	0	0
62	16	2	0	0	0	0
62	17	11	0	0	1	0
62	18	11	0	0	1	0
62	1A	1886	0	0	92	0
62	1B	61	0	0	1	0
62	1D	28	0	0	2	0
62	1E	29	0	0	2	0
62	1F	15	0	0	1	0
62	1G	3	0	0	0	0
62	1H	2	0	0	0	0
62	1I	1	0	0	0	0
62	1N	4	0	0	0	0
62	1O	4	0	0	0	0
62	1P	23	0	0	1	0
62	1Q	8	0	0	0	0
62	1R	16	0	0	2	0
62	1S	5	0	0	0	0
62	1T	8	0	0	0	0
62	1U	10	0	0	0	0
62	1V	11	0	0	1	0
62	1W	6	0	0	1	0
62	1X	7	0	0	0	0
62	1Y	1	0	0	0	0
62	1Z	1	0	0	0	0
62	1a	308	0	0	25	0
62	1b	1	0	0	0	0
62	1e	1	0	0	0	0
62	1f	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
62	1i	1	0	0	0	0
62	1l	7	0	0	0	0
62	1m	2	0	0	0	0
62	1o	1	0	0	0	0
62	1q	2	0	0	0	0
62	1u	1	0	0	0	0
62	1v	5	0	0	0	0
62	1w	8	0	0	1	0
62	1x	6	0	0	0	0
62	1y	1	0	0	0	0
62	1z	1	0	0	1	0
62	20	5	0	0	0	0
62	21	13	0	0	1	0
62	25	2	0	0	1	0
62	27	1	0	0	0	0
62	28	3	0	0	0	0
62	29	1	0	0	0	0
62	2A	1000	0	0	92	0
62	2B	22	0	0	3	0
62	2D	24	0	0	1	0
62	2E	9	0	0	1	0
62	2F	15	0	0	0	0
62	2N	1	0	0	0	0
62	2O	2	0	0	0	0
62	2P	11	0	0	1	0
62	2Q	1	0	0	0	0
62	2R	3	0	0	0	0
62	2T	5	0	0	0	0
62	2U	3	0	0	2	0
62	2W	3	0	0	0	0
62	2X	4	0	0	0	0
62	2Y	1	0	0	0	0
62	2Z	1	0	0	0	0
62	2a	198	0	0	20	0
62	2d	1	0	0	0	0
62	2e	1	0	0	0	0
62	2j	1	0	0	0	0
62	2l	4	0	0	1	0
62	2p	2	0	0	0	0
62	2r	1	0	0	0	0
62	2t	1	0	0	0	0
62	2v	2	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
62	2w	3	0	0	0	0
62	2x	5	0	0	0	0
All	All	299808	0	196752	5317	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 11.

The worst 5 of 5317 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1082:U:H3	1:1A:1086:A:N6	1.22	1.38
54:2w:51:A:N6	54:2w:63:U:H3	1.37	1.22
54:2w:51:A:N6	54:2w:63:U:N3	1.94	1.14
1:1A:1082:U:O4	1:1A:1086:A:N1	1.87	1.06
10:2O:48:PRO:HB3	32:2a:1422:G:H5''	1.44	0.99

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	257 (94%)	16 (6%)	0	100	100
3	2D	273/276 (99%)	246 (90%)	26 (10%)	1 (0%)	30	51
4	1E	202/206 (98%)	189 (94%)	12 (6%)	1 (0%)	24	46
4	2E	202/206 (98%)	193 (96%)	8 (4%)	1 (0%)	24	46
5	1F	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	24	46
5	2F	201/210 (96%)	187 (93%)	12 (6%)	2 (1%)	12	28
6	1G	179/182 (98%)	165 (92%)	11 (6%)	3 (2%)	7	15
6	2G	179/182 (98%)	146 (82%)	29 (16%)	4 (2%)	5	10

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	1H	172/180 (96%)	156 (91%)	15 (9%)	1 (1%)	21	42
7	2H	172/180 (96%)	153 (89%)	16 (9%)	3 (2%)	7	15
8	1I	144/148 (97%)	125 (87%)	19 (13%)	0	100	100
8	2I	144/148 (97%)	119 (83%)	20 (14%)	5 (4%)	3	4
9	1N	138/140 (99%)	132 (96%)	5 (4%)	1 (1%)	18	38
9	2N	138/140 (99%)	130 (94%)	7 (5%)	1 (1%)	18	38
10	1O	120/122 (98%)	109 (91%)	9 (8%)	2 (2%)	7	15
10	2O	120/122 (98%)	107 (89%)	13 (11%)	0	100	100
11	1P	147/150 (98%)	131 (89%)	10 (7%)	6 (4%)	2	3
11	2P	147/150 (98%)	126 (86%)	17 (12%)	4 (3%)	4	7
12	1Q	139/141 (99%)	129 (93%)	9 (6%)	1 (1%)	18	38
12	2Q	139/141 (99%)	125 (90%)	14 (10%)	0	100	100
13	1R	116/118 (98%)	112 (97%)	3 (3%)	1 (1%)	14	30
13	2R	116/118 (98%)	107 (92%)	9 (8%)	0	100	100
14	1S	108/112 (96%)	102 (94%)	6 (6%)	0	100	100
14	2S	108/112 (96%)	96 (89%)	9 (8%)	3 (3%)	4	6
15	1T	129/146 (88%)	120 (93%)	8 (6%)	1 (1%)	16	34
15	2T	129/146 (88%)	120 (93%)	9 (7%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	112 (98%)	2 (2%)	0	100	100
17	1V	99/101 (98%)	95 (96%)	2 (2%)	2 (2%)	6	12
17	2V	99/101 (98%)	93 (94%)	4 (4%)	2 (2%)	6	12
18	1W	110/113 (97%)	106 (96%)	4 (4%)	0	100	100
18	2W	110/113 (97%)	106 (96%)	4 (4%)	0	100	100
19	1X	93/96 (97%)	90 (97%)	2 (2%)	1 (1%)	11	25
19	2X	93/96 (97%)	83 (89%)	9 (10%)	1 (1%)	11	25
20	1Y	105/110 (96%)	97 (92%)	8 (8%)	0	100	100
20	2Y	105/110 (96%)	99 (94%)	6 (6%)	0	100	100
21	1Z	148/206 (72%)	126 (85%)	21 (14%)	1 (1%)	18	38
21	2Z	156/206 (76%)	125 (80%)	27 (17%)	4 (3%)	4	7
22	10	81/85 (95%)	77 (95%)	4 (5%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	20	81/85 (95%)	73 (90%)	8 (10%)	0	100	100
23	11	95/98 (97%)	92 (97%)	2 (2%)	1 (1%)	11	25
23	21	95/98 (97%)	92 (97%)	2 (2%)	1 (1%)	11	25
24	12	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
24	22	68/72 (94%)	64 (94%)	4 (6%)	0	100	100
25	13	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
25	23	57/60 (95%)	52 (91%)	5 (9%)	0	100	100
26	14	67/71 (94%)	54 (81%)	9 (13%)	4 (6%)	1	1
26	24	67/71 (94%)	47 (70%)	17 (25%)	3 (4%)	2	2
27	15	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
27	25	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
28	16	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
28	26	51/54 (94%)	43 (84%)	8 (16%)	0	100	100
29	17	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
29	27	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
30	18	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
30	28	62/65 (95%)	59 (95%)	3 (5%)	0	100	100
31	19	35/37 (95%)	34 (97%)	1 (3%)	0	100	100
31	29	35/37 (95%)	34 (97%)	1 (3%)	0	100	100
33	1b	229/256 (90%)	195 (85%)	23 (10%)	11 (5%)	2	2
33	2b	229/256 (90%)	182 (80%)	37 (16%)	10 (4%)	2	2
34	1c	204/239 (85%)	180 (88%)	21 (10%)	3 (2%)	8	18
34	2c	204/239 (85%)	160 (78%)	37 (18%)	7 (3%)	3	4
35	1d	206/209 (99%)	191 (93%)	14 (7%)	1 (0%)	24	46
35	2d	206/209 (99%)	186 (90%)	19 (9%)	1 (0%)	24	46
36	1e	146/162 (90%)	128 (88%)	16 (11%)	2 (1%)	9	19
36	2e	146/162 (90%)	124 (85%)	19 (13%)	3 (2%)	5	11
37	1f	98/101 (97%)	93 (95%)	4 (4%)	1 (1%)	12	28
37	2f	98/101 (97%)	94 (96%)	4 (4%)	0	100	100
38	1g	153/156 (98%)	136 (89%)	16 (10%)	1 (1%)	18	38
38	2g	153/156 (98%)	135 (88%)	14 (9%)	4 (3%)	4	7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	1h	135/138 (98%)	126 (93%)	9 (7%)	0	100	100
39	2h	135/138 (98%)	123 (91%)	12 (9%)	0	100	100
40	1i	125/128 (98%)	109 (87%)	15 (12%)	1 (1%)	16	34
40	2i	125/128 (98%)	107 (86%)	16 (13%)	2 (2%)	7	16
41	1j	95/105 (90%)	77 (81%)	13 (14%)	5 (5%)	1	1
41	2j	94/105 (90%)	76 (81%)	15 (16%)	3 (3%)	3	5
42	1k	112/129 (87%)	98 (88%)	12 (11%)	2 (2%)	6	14
42	2k	112/129 (87%)	96 (86%)	12 (11%)	4 (4%)	2	4
43	1l	119/132 (90%)	109 (92%)	10 (8%)	0	100	100
43	2l	119/132 (90%)	101 (85%)	16 (13%)	2 (2%)	7	15
44	1m	121/126 (96%)	106 (88%)	13 (11%)	2 (2%)	7	15
44	2m	120/126 (95%)	101 (84%)	18 (15%)	1 (1%)	16	34
45	1n	58/61 (95%)	53 (91%)	5 (9%)	0	100	100
45	2n	58/61 (95%)	50 (86%)	7 (12%)	1 (2%)	7	15
46	1o	86/89 (97%)	76 (88%)	10 (12%)	0	100	100
46	2o	86/89 (97%)	80 (93%)	5 (6%)	1 (1%)	10	23
47	1p	80/88 (91%)	69 (86%)	11 (14%)	0	100	100
47	2p	80/88 (91%)	70 (88%)	9 (11%)	1 (1%)	9	21
48	1q	97/105 (92%)	93 (96%)	4 (4%)	0	100	100
48	2q	97/105 (92%)	84 (87%)	12 (12%)	1 (1%)	12	28
49	1r	66/88 (75%)	58 (88%)	7 (11%)	1 (2%)	8	18
49	2r	66/88 (75%)	63 (96%)	3 (4%)	0	100	100
50	1s	81/93 (87%)	70 (86%)	11 (14%)	0	100	100
50	2s	81/93 (87%)	67 (83%)	13 (16%)	1 (1%)	10	23
51	1t	94/106 (89%)	82 (87%)	9 (10%)	3 (3%)	3	5
51	2t	94/106 (89%)	84 (89%)	8 (8%)	2 (2%)	5	11
52	1u	21/27 (78%)	18 (86%)	3 (14%)	0	100	100
52	2u	21/27 (78%)	18 (86%)	1 (5%)	2 (10%)	0	0
56	1z	1/3 (33%)	0	1 (100%)	0	100	100
56	2z	1/3 (33%)	0	1 (100%)	0	100	100
All	All	11372/12134 (94%)	10242 (90%)	989 (9%)	141 (1%)	10	23

5 of 141 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
11	1P	38	GLN
23	11	3	LYS
26	14	49	PHE
36	1e	96	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%)	202 (94%)	13 (6%)	17	37
3	2D	215/218 (99%)	200 (93%)	15 (7%)	14	31
4	1E	164/166 (99%)	152 (93%)	12 (7%)	13	29
4	2E	164/166 (99%)	151 (92%)	13 (8%)	11	26
5	1F	160/166 (96%)	142 (89%)	18 (11%)	5	12
5	2F	159/166 (96%)	145 (91%)	14 (9%)	9	21
6	1G	143/156 (92%)	123 (86%)	20 (14%)	3	6
6	2G	143/156 (92%)	121 (85%)	22 (15%)	2	5
7	1H	144/148 (97%)	130 (90%)	14 (10%)	8	17
7	2H	144/148 (97%)	123 (85%)	21 (15%)	3	6
8	1I	113/124 (91%)	90 (80%)	23 (20%)	1	2
8	2I	105/124 (85%)	83 (79%)	22 (21%)	1	2
9	1N	118/119 (99%)	106 (90%)	12 (10%)	7	15
9	2N	118/119 (99%)	105 (89%)	13 (11%)	6	13
10	1O	100/100 (100%)	96 (96%)	4 (4%)	28	55
10	2O	100/100 (100%)	91 (91%)	9 (9%)	9	20
11	1P	115/116 (99%)	105 (91%)	10 (9%)	9	21
11	2P	115/116 (99%)	99 (86%)	16 (14%)	3	7
12	1Q	111/111 (100%)	101 (91%)	10 (9%)	9	20

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	2Q	111/111 (100%)	101 (91%)	10 (9%)	9	20
13	1R	101/101 (100%)	94 (93%)	7 (7%)	14	32
13	2R	101/101 (100%)	95 (94%)	6 (6%)	18	38
14	1S	86/88 (98%)	76 (88%)	10 (12%)	5	11
14	2S	85/88 (97%)	67 (79%)	18 (21%)	1	2
15	1T	115/127 (91%)	104 (90%)	11 (10%)	8	17
15	2T	113/127 (89%)	107 (95%)	6 (5%)	20	43
16	1U	93/94 (99%)	88 (95%)	5 (5%)	20	42
16	2U	93/94 (99%)	81 (87%)	12 (13%)	4	8
17	1V	80/82 (98%)	76 (95%)	4 (5%)	22	46
17	2V	80/82 (98%)	70 (88%)	10 (12%)	4	9
18	1W	90/92 (98%)	86 (96%)	4 (4%)	25	50
18	2W	90/92 (98%)	84 (93%)	6 (7%)	15	33
19	1X	77/78 (99%)	73 (95%)	4 (5%)	21	44
19	2X	77/78 (99%)	72 (94%)	5 (6%)	15	35
20	1Y	85/91 (93%)	72 (85%)	13 (15%)	3	5
20	2Y	85/91 (93%)	68 (80%)	17 (20%)	1	2
21	1Z	135/179 (75%)	110 (82%)	25 (18%)	1	3
21	2Z	137/179 (76%)	112 (82%)	25 (18%)	2	3
22	10	65/67 (97%)	62 (95%)	3 (5%)	24	49
22	20	65/67 (97%)	60 (92%)	5 (8%)	12	27
23	11	80/83 (96%)	75 (94%)	5 (6%)	16	36
23	21	80/83 (96%)	71 (89%)	9 (11%)	5	12
24	12	65/67 (97%)	58 (89%)	7 (11%)	6	13
24	22	65/67 (97%)	58 (89%)	7 (11%)	6	13
25	13	51/52 (98%)	47 (92%)	4 (8%)	11	26
25	23	50/52 (96%)	46 (92%)	4 (8%)	11	25
26	14	59/63 (94%)	49 (83%)	10 (17%)	2	4
26	24	53/63 (84%)	45 (85%)	8 (15%)	3	5
27	15	50/52 (96%)	46 (92%)	4 (8%)	11	25
27	25	50/52 (96%)	46 (92%)	4 (8%)	11	25

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	16	51/52 (98%)	45 (88%)	6 (12%)	5	10
28	26	50/52 (96%)	43 (86%)	7 (14%)	3	6
29	17	41/42 (98%)	37 (90%)	4 (10%)	7	17
29	27	41/42 (98%)	36 (88%)	5 (12%)	5	10
30	18	54/55 (98%)	51 (94%)	3 (6%)	19	40
30	28	54/55 (98%)	51 (94%)	3 (6%)	19	40
31	19	34/34 (100%)	33 (97%)	1 (3%)	37	65
31	29	34/34 (100%)	31 (91%)	3 (9%)	9	21
33	1b	192/220 (87%)	161 (84%)	31 (16%)	2	4
33	2b	187/220 (85%)	146 (78%)	41 (22%)	1	2
34	1c	142/188 (76%)	124 (87%)	18 (13%)	4	9
34	2c	140/188 (74%)	120 (86%)	20 (14%)	3	6
35	1d	169/181 (93%)	142 (84%)	27 (16%)	2	4
35	2d	173/181 (96%)	150 (87%)	23 (13%)	4	8
36	1e	113/123 (92%)	101 (89%)	12 (11%)	6	14
36	2e	114/123 (93%)	100 (88%)	14 (12%)	4	9
37	1f	84/90 (93%)	75 (89%)	9 (11%)	6	14
37	2f	85/90 (94%)	74 (87%)	11 (13%)	4	8
38	1g	119/127 (94%)	106 (89%)	13 (11%)	6	13
38	2g	120/127 (94%)	104 (87%)	16 (13%)	4	8
39	1h	114/119 (96%)	105 (92%)	9 (8%)	11	26
39	2h	114/119 (96%)	100 (88%)	14 (12%)	4	9
40	1i	90/99 (91%)	78 (87%)	12 (13%)	4	8
40	2i	89/99 (90%)	82 (92%)	7 (8%)	11	26
41	1j	66/92 (72%)	59 (89%)	7 (11%)	6	14
41	2j	69/92 (75%)	55 (80%)	14 (20%)	1	2
42	1k	82/99 (83%)	71 (87%)	11 (13%)	4	7
42	2k	83/99 (84%)	78 (94%)	5 (6%)	17	37
43	1l	96/108 (89%)	92 (96%)	4 (4%)	26	52
43	2l	96/108 (89%)	86 (90%)	10 (10%)	7	14
44	1m	93/101 (92%)	82 (88%)	11 (12%)	5	10

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	2m	92/101 (91%)	78 (85%)	14 (15%)	3	5
45	1n	49/50 (98%)	45 (92%)	4 (8%)	10	24
45	2n	49/50 (98%)	42 (86%)	7 (14%)	3	6
46	1o	78/80 (98%)	71 (91%)	7 (9%)	9	20
46	2o	78/80 (98%)	73 (94%)	5 (6%)	16	35
47	1p	69/74 (93%)	59 (86%)	10 (14%)	3	6
47	2p	68/74 (92%)	62 (91%)	6 (9%)	9	21
48	1q	94/97 (97%)	84 (89%)	10 (11%)	6	14
48	2q	94/97 (97%)	85 (90%)	9 (10%)	8	17
49	1r	59/77 (77%)	53 (90%)	6 (10%)	7	15
49	2r	59/77 (77%)	51 (86%)	8 (14%)	3	7
50	1s	69/80 (86%)	63 (91%)	6 (9%)	9	21
50	2s	67/80 (84%)	53 (79%)	14 (21%)	1	2
51	1t	70/82 (85%)	61 (87%)	9 (13%)	4	8
51	2t	70/82 (85%)	61 (87%)	9 (13%)	4	8
52	1u	18/22 (82%)	16 (89%)	2 (11%)	6	12
52	2u	18/22 (82%)	17 (94%)	1 (6%)	19	40
56	1z	2/2 (100%)	2 (100%)	0	100	100
56	2z	2/2 (100%)	2 (100%)	0	100	100
All	All	9307/10068 (92%)	8260 (89%)	1047 (11%)	6	12

5 of 1047 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
39	2h	26	VAL
41	2j	58	ASP
39	2h	11	THR
51	2t	45	GLN
40	1i	25	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 146 such sidechains are listed below:

Mol	Chain	Res	Type
35	2d	42	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	2s	83	HIS
35	2d	129	ASN
40	2i	87	GLN
35	1d	161	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	494 (17%)	22 (0%)
1	2A	2791/2915 (95%)	522 (18%)	27 (0%)
2	1B	119/121 (98%)	11 (9%)	0
2	2B	118/121 (97%)	33 (27%)	0
32	1a	1497/1521 (98%)	273 (18%)	0
32	2a	1501/1521 (98%)	335 (22%)	0
53	1v	12/24 (50%)	3 (25%)	0
53	2v	12/24 (50%)	4 (33%)	0
54	1w	71/76 (93%)	32 (45%)	0
54	2w	71/76 (93%)	38 (53%)	0
55	1x	75/77 (97%)	14 (18%)	0
55	2x	75/77 (97%)	15 (20%)	0
57	1y	72/76 (94%)	35 (48%)	0
57	2y	72/76 (94%)	41 (56%)	0
All	All	9350/9620 (97%)	1850 (19%)	49 (0%)

5 of 1850 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	10	G
1	1A	34	C
1	1A	45	C
1	1A	50	U
1	1A	55	G

5 of 49 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2A	277	C
1	2A	1026	U
1	2A	528	A
1	2A	827	U
1	2A	1275	A

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

86 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	2a	1518	32	23,26,27	0.41	0	33,38,41	2.02	9 (27%)
1	5MC	1A	1942	1	19,22,23	1.67	3 (15%)	26,32,35	1.29	5 (19%)
32	M2G	1a	966	32	24,27,28	1.29	4 (16%)	33,40,43	1.83	6 (18%)
32	5MC	1a	1400	32	19,22,23	1.58	3 (15%)	26,32,35	1.13	3 (11%)
56	FME	1z	1	56	8,9,10	1.03	0	8,9,11	1.24	2 (25%)
55	5MC	2x	32	55	19,22,23	1.70	3 (15%)	26,32,35	1.20	3 (11%)
54	5MU	1w	54	54	19,22,23	1.39	5 (26%)	27,32,35	2.11	6 (22%)
32	MA6	2a	1519	32	23,26,27	0.42	0	33,38,41	2.10	10 (30%)
1	OMG	2A	2251	55,1	23,26,27	1.25	4 (17%)	32,38,41	1.78	6 (18%)
54	PSU	1w	55	54	18,21,22	1.39	2 (11%)	21,30,33	1.97	3 (14%)
43	0TD	1l	92	43	8,9,10	4.39	1 (12%)	6,11,13	4.50	2 (33%)
1	PSU	2A	2605	1	18,21,22	1.36	2 (11%)	21,30,33	1.85	4 (19%)
1	OMU	2A	2552	58,1	19,22,23	1.20	2 (10%)	25,31,34	1.77	5 (20%)
56	FME	2z	1	56	8,9,10	0.99	0	8,9,11	1.04	1 (12%)
54	A1B8A	2w	76	54	30,33,34	1.28	3 (10%)	36,46,49	1.87	8 (22%)
57	G7M	1y	46	57	23,26,27	1.59	3 (13%)	34,39,42	1.72	3 (8%)
32	G7M	2a	527	32,58	23,26,27	1.53	4 (17%)	34,39,42	1.72	5 (14%)
54	U8U	1w	34	53,54	20,24,25	1.38	2 (10%)	22,34,37	1.34	4 (18%)
1	OMC	1A	1920	1	19,22,23	0.83	0	25,31,34	1.05	2 (8%)
32	MA6	1a	1518	32	23,26,27	0.43	0	33,38,41	1.96	10 (30%)
57	5MU	1y	54	57	19,22,23	1.36	5 (26%)	27,32,35	2.03	6 (22%)
43	0TD	2l	92	43	8,9,10	4.46	1 (12%)	6,11,13	5.24	1 (16%)
57	PSU	2y	55	57	18,21,22	1.42	2 (11%)	21,30,33	2.10	3 (14%)
32	5MC	2a	967	32,58	19,22,23	1.88	3 (15%)	26,32,35	1.17	3 (11%)
55	4SU	2x	8	55	18,21,22	2.25	5 (27%)	25,30,33	1.55	6 (24%)
57	PSU	1y	39	57	18,21,22	1.34	2 (11%)	21,30,33	2.04	3 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	A1B8A	1w	76	54	30,33,34	1.31	5 (16%)	36,46,49	1.81	8 (22%)
32	5MC	1a	1407	32	19,22,23	1.71	3 (15%)	26,32,35	1.27	3 (11%)
32	5MC	2a	1407	32	19,22,23	1.59	3 (15%)	26,32,35	1.24	3 (11%)
57	U8U	2y	34	57,53	17,21,25	1.57	4 (23%)	21,30,37	1.54	3 (14%)
55	8AN	2x	76	56,58,55	21,24,25	1.43	3 (14%)	26,35,38	2.58	9 (34%)
1	OMG	1A	2251	58,55,1	23,26,27	1.27	3 (13%)	32,38,41	2.00	6 (18%)
57	T6A	2y	37	32,57	21,24,35	1.59	3 (14%)	30,35,52	2.02	8 (26%)
1	2MA	2A	2503	58,1	22,25,26	1.42	4 (18%)	32,37,40	2.35	9 (28%)
1	PSU	1A	1917	1	18,21,22	1.37	3 (16%)	21,30,33	1.96	4 (19%)
54	5MU	2w	54	54	19,22,23	1.45	5 (26%)	27,32,35	1.67	5 (18%)
57	PSU	1y	55	57	18,21,22	1.40	2 (11%)	21,30,33	1.95	3 (14%)
57	PSU	2y	39	57,42	18,21,22	1.36	2 (11%)	21,30,33	1.95	4 (19%)
54	U8U	2w	34	53,54	20,24,25	1.30	2 (10%)	22,34,37	1.07	2 (9%)
54	T6A	2w	37	53,54	31,34,35	1.40	4 (12%)	43,49,52	1.86	9 (20%)
1	5MU	2A	1915	1	19,22,23	1.45	5 (26%)	27,32,35	2.07	6 (22%)
1	PSU	2A	1911	1	18,21,22	1.39	2 (11%)	21,30,33	1.98	3 (14%)
32	UR3	2a	1498	32	19,22,23	1.02	2 (10%)	26,32,35	1.73	3 (11%)
55	5MU	2x	54	55	19,22,23	1.36	4 (21%)	27,32,35	2.17	6 (22%)
32	5MC	1a	1404	32	19,22,23	1.77	3 (15%)	26,32,35	1.13	2 (7%)
57	5MU	2y	54	57	19,22,23	1.43	6 (31%)	27,32,35	2.11	6 (22%)
54	G7M	1w	46	54	23,26,27	1.50	3 (13%)	34,39,42	1.74	5 (14%)
55	PSU	2x	55	55	18,21,22	1.37	2 (11%)	21,30,33	2.07	4 (19%)
1	OMC	2A	1920	1	19,22,23	0.78	0	25,31,34	0.75	0
1	2MA	1A	2503	58,1	22,25,26	1.39	5 (22%)	32,37,40	2.38	10 (31%)
55	4SU	1x	8	55	18,21,22	2.28	5 (27%)	25,30,33	1.53	6 (24%)
32	UR3	1a	1498	32	19,22,23	1.00	2 (10%)	26,32,35	1.78	4 (15%)
57	G7M	2y	46	57	23,26,27	1.59	3 (13%)	34,39,42	1.76	4 (11%)
32	4OC	2a	1402	32,58	20,23,24	0.78	0	25,32,35	1.13	3 (12%)
1	5MU	1A	1939	1	19,22,23	1.39	5 (26%)	27,32,35	2.17	7 (25%)
32	2MG	1a	1207	32,58	23,26,27	1.24	2 (8%)	33,38,41	2.29	9 (27%)
1	PSU	1A	1911	1	18,21,22	1.37	2 (11%)	21,30,33	2.00	3 (14%)
55	5MU	1x	54	55	19,22,23	1.45	5 (26%)	27,32,35	1.89	6 (22%)
1	5MC	2A	1962	58,1	19,22,23	1.58	3 (15%)	26,32,35	1.15	3 (11%)
54	G7M	2w	46	54	23,26,27	1.45	3 (13%)	34,39,42	1.70	5 (14%)
57	T6A	1y	37	57	21,24,35	1.57	4 (19%)	30,35,52	2.06	9 (30%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
55	8AN	1x	76	56,58,55	21,24,25	1.44	3 (14%)	26,35,38	2.31	10 (38%)
1	PSU	2A	1917	1	18,21,22	1.38	2 (11%)	21,30,33	2.01	3 (14%)
32	5MC	1a	967	32	19,22,23	1.51	3 (15%)	26,32,35	1.14	2 (7%)
1	5MC	1A	1962	58,1	19,22,23	1.79	3 (15%)	26,32,35	1.18	3 (11%)
55	5MC	1x	32	55	19,22,23	1.67	3 (15%)	26,32,35	1.25	3 (11%)
32	PSU	1a	516	32,58	18,21,22	1.44	3 (16%)	21,30,33	1.95	5 (23%)
32	M2G	2a	966	32	24,27,28	1.35	4 (16%)	33,40,43	1.87	6 (18%)
32	4OC	1a	1402	32	20,23,24	0.74	0	25,32,35	0.95	1 (4%)
32	G7M	1a	527	32,58	23,26,27	1.52	3 (13%)	34,39,42	1.75	5 (14%)
32	MA6	1a	1519	32	23,26,27	0.43	0	33,38,41	2.02	10 (30%)
54	PSU	2w	55	54	18,21,22	1.36	2 (11%)	21,30,33	1.99	4 (19%)
1	5MU	1A	1915	1	19,22,23	1.37	5 (26%)	27,32,35	2.04	7 (25%)
32	5MC	2a	1404	32	19,22,23	1.66	3 (15%)	26,32,35	1.12	2 (7%)
32	2MG	2a	1207	32	23,26,27	1.26	4 (17%)	33,38,41	2.17	7 (21%)
54	PSU	2w	39	54	18,21,22	1.31	2 (11%)	21,30,33	2.26	3 (14%)
55	PSU	1x	55	55	18,21,22	1.37	2 (11%)	21,30,33	2.13	4 (19%)
1	5MC	2A	1942	1	19,22,23	1.60	3 (15%)	26,32,35	1.10	2 (7%)
1	5MU	2A	1939	1	19,22,23	1.40	5 (26%)	27,32,35	2.23	6 (22%)
57	U8U	1y	34	57	17,21,25	1.59	3 (17%)	21,30,37	1.46	3 (14%)
32	PSU	2a	516	32,58	18,21,22	1.41	3 (16%)	21,30,33	2.12	4 (19%)
1	PSU	1A	2605	58,1	18,21,22	1.40	4 (22%)	21,30,33	2.10	3 (14%)
32	5MC	2a	1400	32	19,22,23	1.83	3 (15%)	26,32,35	1.24	4 (15%)
54	PSU	1w	39	54	18,21,22	1.38	2 (11%)	21,30,33	1.91	4 (19%)
1	OMU	1A	2552	58,1	19,22,23	1.18	3 (15%)	25,31,34	1.85	5 (20%)
54	T6A	1w	37	54	31,34,35	1.41	4 (12%)	43,49,52	1.87	10 (23%)

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	2a	1518	32	-	0/11/29/30	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	1/11/29/30	0/3/3/3
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	FME	1z	1	56	-	4/7/9/11	-
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	1/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	3/11/29/30	0/3/3/3
1	OMG	2A	2251	55,1	-	1/9/27/28	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	3/7/12/14	-
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
1	OMU	2A	2552	58,1	-	0/9/27/28	0/2/2/2
56	FME	2z	1	56	-	2/7/9/11	-
54	A1B8A	2w	76	54	-	2/20/38/39	0/3/3/3
57	G7M	1y	46	57	-	1/7/25/26	0/3/3/3
32	G7M	2a	527	32,58	-	3/7/25/26	0/3/3/3
54	U8U	1w	34	53,54	-	2/10/28/29	0/2/2/2
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
32	MA6	1a	1518	32	-	0/11/29/30	0/3/3/3
57	5MU	1y	54	57	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	2/7/12/14	-
57	PSU	2y	55	57	-	2/7/25/26	0/2/2/2
32	5MC	2a	967	32,58	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	55	-	1/7/25/26	0/2/2/2
57	PSU	1y	39	57	-	0/7/25/26	0/2/2/2
54	A1B8A	1w	76	54	-	2/20/38/39	0/3/3/3
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
57	U8U	2y	34	57,53	-	1/7/25/29	0/2/2/2
55	8AN	2x	76	56,58,55	-	0/7/25/26	0/3/3/3
1	OMG	1A	2251	58,55,1	-	0/9/27/28	0/3/3/3
57	T6A	2y	37	32,57	-	0/7/25/42	0/3/3/3
1	2MA	2A	2503	58,1	-	1/7/25/26	0/3/3/3
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
57	PSU	1y	55	57	-	1/7/25/26	0/2/2/2
57	PSU	2y	39	57,42	-	2/7/25/26	0/2/2/2
54	U8U	2w	34	53,54	-	2/10/28/29	0/2/2/2
54	T6A	2w	37	53,54	-	4/23/41/42	0/3/3/3
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
57	5MU	2y	54	57	-	0/7/25/26	0/2/2/2
54	G7M	1w	46	54	-	2/7/25/26	0/3/3/3
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
1	2MA	1A	2503	58,1	-	1/7/25/26	0/3/3/3
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
57	G7M	2y	46	57	-	2/7/25/26	0/3/3/3
32	4OC	2a	1402	32,58	-	3/9/29/30	0/2/2/2
1	5MU	1A	1939	1	-	0/7/25/26	0/2/2/2
32	2MG	1a	1207	32,58	-	0/9/27/28	0/3/3/3
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	58,1	-	4/7/25/26	0/2/2/2
54	G7M	2w	46	54	-	1/7/25/26	0/3/3/3
57	T6A	1y	37	57	-	1/7/25/42	0/3/3/3
55	8AN	1x	76	56,58,55	-	3/7/25/26	0/3/3/3
1	PSU	2A	1917	1	-	2/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	1/7/25/26	0/2/2/2
1	5MC	1A	1962	58,1	-	1/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32,58	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
32	G7M	1a	527	32,58	-	2/7/25/26	0/3/3/3
32	MA6	1a	1519	32	-	3/11/29/30	0/3/3/3
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	2/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	0/9/27/28	0/3/3/3
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
1	5MU	2A	1939	1	-	0/7/25/26	0/2/2/2
57	U8U	1y	34	57	-	0/7/25/29	0/2/2/2
32	PSU	2a	516	32,58	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	58,1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	4/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
1	OMU	1A	2552	58,1	-	0/9/27/28	0/2/2/2
54	T6A	1w	37	54	-	6/23/41/42	0/3/3/3

The worst 5 of 243 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.21	1.70	1.82
43	1l	92	0TD	CB-SB	-11.90	1.70	1.82
32	2a	967	5MC	C5-C4	7.05	1.49	1.44
32	2a	1400	5MC	C5-C4	6.88	1.49	1.44
1	1A	1962	5MC	C5-C4	6.79	1.49	1.44

The worst 5 of 415 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	2l	92	0TD	CSB-SB-CB	-12.58	79.76	102.36
43	1l	92	0TD	CSB-SB-CB	-10.57	83.37	102.36
1	2A	2503	2MA	C5-C4-N3	-8.14	118.61	127.18
1	1A	2503	2MA	C5-C4-N3	-7.55	119.22	127.18
32	1a	1207	2MG	C2-N3-C4	7.22	121.03	112.00

There are no chirality outliers.

5 of 84 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1519	MA6	O4'-C4'-C5'-O5'
43	1l	92	0TD	O-C-CA-CB
1	2A	2251	OMG	C1'-C2'-O2'-CM2
32	2a	1400	5MC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'

There are no ring outliers.

51 monomers are involved in 77 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	2a	1518	MA6	3	0
55	2x	32	5MC	2	0
54	1w	54	5MU	1	0
32	2a	1519	MA6	2	0
1	2A	2251	OMG	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
54	1w	55	PSU	2	0
1	2A	2552	OMU	2	0
56	2z	1	FME	1	0
54	2w	76	A1B8A	1	0
54	1w	34	U8U	4	0
32	1a	1518	MA6	2	0
57	1y	54	5MU	2	0
43	2l	92	0TD	1	0
57	2y	55	PSU	2	0
32	2a	967	5MC	1	0
55	2x	8	4SU	1	0
57	1y	39	PSU	1	0
54	1w	76	A1B8A	3	0
57	2y	34	U8U	1	0
55	2x	76	8AN	2	0
1	1A	2251	OMG	1	0
57	2y	37	T6A	1	0
1	2A	2503	2MA	3	0
1	1A	1917	PSU	1	0
54	2w	54	5MU	1	0
57	1y	55	PSU	2	0
54	2w	34	U8U	1	0
54	2w	37	T6A	1	0
55	2x	54	5MU	1	0
32	1a	1404	5MC	1	0
55	2x	55	PSU	2	0
1	2A	1920	OMC	1	0
55	1x	8	4SU	1	0
57	2y	46	G7M	1	0
32	2a	1402	4OC	3	0
1	1A	1939	5MU	2	0
1	1A	1911	PSU	1	0
54	2w	46	G7M	1	0
57	1y	37	T6A	4	0
55	1x	76	8AN	2	0
32	1a	1402	4OC	2	0
32	1a	1519	MA6	2	0
32	2a	1404	5MC	1	0
32	2a	1207	2MG	2	0
54	2w	39	PSU	2	0
1	2A	1942	5MC	1	0
1	2A	1939	5MU	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	2a	516	PSU	2	0
32	2a	1400	5MC	1	0
1	1A	2552	OMU	1	0
54	1w	37	T6A	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2750 ligands modelled in this entry, 2748 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%)	-0.57	83 (2%)	53	48	18, 36, 91, 104	0
1	2A	2789/2915 (95%)	-0.05	80 (2%)	53	48	32, 58, 88, 103	0
2	1B	120/121 (99%)	-0.49	1 (0%)	82	80	29, 49, 62, 81	0
2	2B	120/121 (99%)	0.75	8 (6%)	24	19	61, 78, 85, 93	0
3	1D	275/276 (99%)	-0.22	1 (0%)	88	86	19, 37, 50, 71	0
3	2D	275/276 (99%)	0.28	5 (1%)	67	63	30, 50, 63, 80	0
4	1E	204/206 (99%)	-0.14	1 (0%)	87	85	17, 42, 58, 69	0
4	2E	204/206 (99%)	0.29	3 (1%)	72	68	36, 57, 69, 78	0
5	1F	203/210 (96%)	-0.14	0	100	100	18, 43, 66, 78	0
5	2F	203/210 (96%)	0.47	2 (0%)	79	76	37, 66, 77, 82	0
6	1G	181/182 (99%)	0.38	4 (2%)	62	57	39, 57, 70, 80	0
6	2G	181/182 (99%)	1.17	21 (11%)	9	7	64, 77, 82, 92	0
7	1H	174/180 (96%)	0.22	1 (0%)	85	83	38, 51, 64, 68	0
7	2H	174/180 (96%)	0.86	3 (1%)	69	64	67, 77, 84, 87	0
8	1I	146/148 (98%)	0.61	4 (2%)	56	50	44, 70, 79, 82	0
8	2I	146/148 (98%)	1.64	48 (32%)	1	1	52, 79, 87, 92	0
9	1N	140/140 (100%)	-0.08	0	100	100	24, 40, 56, 73	0
9	2N	140/140 (100%)	0.59	5 (3%)	46	40	44, 63, 75, 79	0
10	1O	122/122 (100%)	-0.10	1 (0%)	82	80	26, 41, 57, 63	0
10	2O	122/122 (100%)	0.38	0	100	100	44, 56, 68, 73	0
11	1P	149/150 (99%)	-0.01	0	100	100	20, 45, 64, 73	0
11	2P	149/150 (99%)	0.54	4 (2%)	56	50	38, 66, 77, 85	0
12	1Q	141/141 (100%)	-0.05	2 (1%)	73	69	23, 40, 54, 67	0
12	2Q	141/141 (100%)	0.81	7 (4%)	34	28	49, 64, 73, 80	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	-0.24	0 100 100	26, 35, 46, 55	0
13	2R	118/118 (100%)	0.19	2 (1%) 69 64	38, 52, 60, 66	0
14	1S	110/112 (98%)	0.03	0 100 100	36, 48, 59, 64	0
14	2S	110/112 (98%)	1.22	19 (17%) 4 3	62, 72, 78, 82	0
15	1T	131/146 (89%)	0.14	2 (1%) 72 68	32, 46, 69, 74	0
15	2T	131/146 (89%)	0.43	1 (0%) 82 80	48, 59, 71, 75	0
16	1U	116/118 (98%)	-0.33	0 100 100	21, 32, 48, 55	0
16	2U	116/118 (98%)	0.33	0 100 100	45, 61, 73, 75	0
17	1V	101/101 (100%)	-0.21	0 100 100	21, 41, 57, 65	0
17	2V	101/101 (100%)	0.70	6 (5%) 28 23	45, 69, 75, 82	0
18	1W	112/113 (99%)	-0.33	0 100 100	24, 33, 51, 73	0
18	2W	112/113 (99%)	0.40	2 (1%) 67 63	35, 52, 64, 84	0
19	1X	95/96 (98%)	-0.15	1 (1%) 78 74	26, 38, 57, 64	0
19	2X	95/96 (98%)	0.50	2 (2%) 63 58	44, 58, 72, 78	0
20	1Y	107/110 (97%)	0.24	2 (1%) 66 61	35, 49, 65, 76	0
20	2Y	107/110 (97%)	1.05	14 (13%) 7 5	60, 69, 78, 82	0
21	1Z	154/206 (74%)	0.73	14 (9%) 15 11	40, 61, 82, 94	0
21	2Z	160/206 (77%)	1.23	22 (13%) 6 5	64, 77, 86, 94	0
22	10	83/85 (97%)	0.07	4 (4%) 35 30	27, 38, 62, 69	0
22	20	83/85 (97%)	1.05	8 (9%) 13 10	45, 64, 71, 84	0
23	11	97/98 (98%)	0.06	1 (1%) 79 76	26, 45, 67, 71	0
23	21	97/98 (98%)	0.34	3 (3%) 51 45	40, 56, 70, 75	0
24	12	70/72 (97%)	0.07	1 (1%) 73 69	35, 49, 57, 72	0
24	22	70/72 (97%)	0.76	0 100 100	59, 68, 75, 76	0
25	13	59/60 (98%)	-0.24	0 100 100	26, 37, 57, 64	0
25	23	59/60 (98%)	0.46	0 100 100	52, 63, 74, 77	0
26	14	69/71 (97%)	0.74	8 (11%) 9 7	55, 73, 85, 92	0
26	24	69/71 (97%)	1.27	8 (11%) 9 7	71, 82, 89, 94	0
27	15	59/60 (98%)	-0.34	1 (1%) 69 64	20, 33, 53, 66	0
27	25	59/60 (98%)	0.21	0 100 100	38, 51, 63, 77	0
28	16	53/54 (98%)	-0.21	0 100 100	32, 41, 53, 56	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.68	1 (1%) 66 61	52, 62, 67, 73	0
29	17	48/49 (97%)	-0.30	1 (2%) 63 58	21, 26, 52, 59	0
29	27	48/49 (97%)	0.07	1 (2%) 63 58	35, 43, 60, 70	0
30	18	64/65 (98%)	-0.12	1 (1%) 70 66	28, 34, 42, 52	0
30	28	64/65 (98%)	0.68	2 (3%) 51 45	45, 56, 62, 69	0
31	19	37/37 (100%)	-0.21	0 100 100	29, 40, 60, 60	0
31	29	37/37 (100%)	1.13	3 (8%) 18 14	58, 65, 73, 75	0
32	1a	1488/1521 (97%)	0.19	26 (1%) 69 64	33, 66, 88, 100	0
32	2a	1491/1521 (98%)	0.50	53 (3%) 46 40	53, 77, 92, 102	0
33	1b	231/256 (90%)	0.82	21 (9%) 15 11	61, 75, 83, 86	0
33	2b	231/256 (90%)	1.30	49 (21%) 2 2	71, 81, 87, 90	0
34	1c	206/239 (86%)	0.70	9 (4%) 39 33	57, 69, 77, 84	0
34	2c	206/239 (86%)	1.53	57 (27%) 1 1	71, 82, 86, 90	0
35	1d	208/209 (99%)	0.87	19 (9%) 15 11	54, 67, 76, 80	0
35	2d	208/209 (99%)	1.02	21 (10%) 12 9	61, 71, 78, 85	0
36	1e	148/162 (91%)	0.41	1 (0%) 84 82	52, 62, 69, 79	0
36	2e	148/162 (91%)	1.12	19 (12%) 7 6	65, 75, 81, 88	0
37	1f	100/101 (99%)	0.50	2 (2%) 65 60	55, 65, 73, 76	0
37	2f	100/101 (99%)	0.55	3 (3%) 52 47	61, 71, 77, 79	0
38	1g	155/156 (99%)	0.63	8 (5%) 33 27	58, 69, 82, 87	0
38	2g	155/156 (99%)	1.19	23 (14%) 5 4	70, 78, 84, 87	0
39	1h	137/138 (99%)	0.60	3 (2%) 62 57	56, 65, 73, 76	0
39	2h	137/138 (99%)	1.13	14 (10%) 12 9	66, 74, 79, 83	0
40	1i	127/128 (99%)	1.03	10 (7%) 18 14	57, 73, 79, 82	0
40	2i	127/128 (99%)	1.45	28 (22%) 2 2	71, 80, 86, 88	0
41	1j	97/105 (92%)	1.04	8 (8%) 17 14	57, 74, 82, 85	0
41	2j	96/105 (91%)	1.50	24 (25%) 2 1	67, 81, 87, 89	0
42	1k	114/129 (88%)	0.79	6 (5%) 32 26	44, 66, 77, 82	0
42	2k	114/129 (88%)	0.89	8 (7%) 22 18	60, 73, 79, 82	0
43	1l	121/132 (91%)	0.49	5 (4%) 41 36	45, 58, 66, 72	0
43	2l	121/132 (91%)	0.71	9 (7%) 20 16	55, 69, 75, 82	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.74	9 (7%) 21 17	56, 68, 77, 89	0
44	2m	122/126 (96%)	1.60	28 (22%) 2 1	70, 80, 86, 88	0
45	1n	60/61 (98%)	0.90	5 (8%) 17 13	58, 65, 71, 72	0
45	2n	60/61 (98%)	1.69	20 (33%) 1 1	70, 81, 85, 88	0
46	1o	88/89 (98%)	0.61	2 (2%) 61 55	49, 63, 73, 80	0
46	2o	88/89 (98%)	0.74	2 (2%) 61 55	62, 71, 79, 82	0
47	1p	82/88 (93%)	1.21	16 (19%) 3 2	58, 71, 76, 84	0
47	2p	82/88 (93%)	0.70	5 (6%) 27 22	53, 68, 74, 76	0
48	1q	99/105 (94%)	0.83	6 (6%) 27 22	56, 66, 74, 77	0
48	2q	99/105 (94%)	0.85	5 (5%) 33 28	60, 70, 77, 79	0
49	1r	68/88 (77%)	0.50	3 (4%) 39 33	53, 65, 74, 78	0
49	2r	68/88 (77%)	0.54	0 100 100	64, 71, 78, 81	0
50	1s	83/93 (89%)	0.70	2 (2%) 59 54	62, 71, 79, 83	0
50	2s	83/93 (89%)	1.73	30 (36%) 1 0	76, 83, 89, 91	0
51	1t	96/106 (90%)	0.98	8 (8%) 17 13	59, 68, 75, 79	0
51	2t	96/106 (90%)	0.59	5 (5%) 33 27	56, 68, 78, 82	0
52	1u	23/27 (85%)	1.16	5 (21%) 2 2	59, 67, 72, 75	0
52	2u	23/27 (85%)	2.11	12 (52%) 0 0	74, 77, 81, 81	0
53	1v	13/24 (54%)	1.48	5 (38%) 1 0	48, 77, 88, 91	0
53	2v	13/24 (54%)	1.99	4 (30%) 1 1	72, 87, 94, 96	0
54	1w	67/76 (88%)	1.52	17 (25%) 1 1	63, 95, 99, 102	0
54	2w	67/76 (88%)	1.93	29 (43%) 0 0	80, 96, 101, 104	0
55	1x	72/77 (93%)	0.48	2 (2%) 55 49	30, 63, 78, 84	0
55	2x	72/77 (93%)	0.89	5 (6%) 23 18	49, 79, 86, 93	0
56	1z	2/3 (66%)	0.65	0 100 100	39, 39, 39, 40	0
56	2z	2/3 (66%)	0.75	0 100 100	53, 53, 53, 58	0
57	1y	68/76 (89%)	1.59	18 (26%) 1 1	54, 95, 100, 102	0
57	2y	68/76 (89%)	1.69	21 (30%) 1 1	68, 96, 100, 102	0
All	All	20884/21754 (96%)	0.32	1104 (5%) 32 26	17, 63, 87, 104	0

The worst 5 of 1104 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	11.0
45	1n	2	ALA	7.1
44	2m	123	ALA	6.7
44	1m	123	ALA	6.2
21	2Z	174	VAL	5.9

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
54	PSU	2w	55	20/21	0.27	0.17	93,100,111,117	0
57	G7M	2y	46	24/25	0.42	0.15	89,98,109,123	0
54	G7M	2w	46	24/25	0.44	0.15	88,97,107,115	0
54	G7M	1w	46	24/25	0.45	0.15	80,94,105,110	0
54	5MU	2w	54	21/22	0.52	0.18	83,96,102,106	0
54	PSU	1w	55	20/21	0.57	0.17	82,96,103,105	0
57	U8U	2y	34	20/24	0.57	0.24	93,100,106,118	0
57	G7M	1y	46	24/25	0.60	0.15	86,93,98,107	0
57	PSU	2y	55	20/21	0.61	0.14	83,95,103,115	0
57	5MU	2y	54	21/22	0.63	0.14	88,95,104,117	0
57	PSU	2y	39	20/21	0.64	0.15	89,92,102,108	0
57	T6A	1y	37	22/33	0.66	0.16	81,91,100,107	0
57	PSU	1y	39	20/21	0.67	0.14	84,92,101,107	0
57	U8U	1y	34	20/24	0.69	0.17	82,92,98,102	0
57	PSU	1y	55	20/21	0.70	0.14	91,94,102,104	0
57	T6A	2y	37	22/33	0.72	0.17	85,93,99,105	0
54	U8U	1w	34	23/24	0.75	0.17	64,83,93,99	0
1	5MU	2A	1915	21/22	0.76	0.18	79,84,89,96	0
54	T6A	2w	37	32/33	0.76	0.17	71,91,100,108	0
54	5MU	1w	54	21/22	0.76	0.13	80,89,93,94	0
57	5MU	1y	54	21/22	0.78	0.12	83,91,96,103	0
54	U8U	2w	34	23/24	0.81	0.16	82,87,92,96	0
54	T6A	1w	37	32/33	0.82	0.14	70,79,82,83	0
32	2MG	2a	1207	24/25	0.83	0.13	78,83,89,94	0
54	PSU	2w	39	20/21	0.83	0.16	82,93,96,96	0
32	PSU	2a	516	20/21	0.84	0.12	75,82,90,90	0
54	A1B8A	2w	76	31/32	0.84	0.16	52,68,78,82	0
55	4SU	2x	8	20/21	0.85	0.12	74,78,83,87	0
32	M2G	2a	966	25/26	0.86	0.17	59,70,87,92	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
54	PSU	1w	39	20/21	0.86	0.12	76,82,88,94	0
55	5MU	2x	54	21/22	0.87	0.13	76,79,84,94	0
55	PSU	2x	55	20/21	0.87	0.11	69,76,80,89	0
54	A1B8A	1w	76	31/32	0.87	0.14	36,52,62,70	0
32	5MC	2a	967	21/22	0.87	0.15	66,71,81,83	0
43	0TD	1l	92	10/11	0.88	0.13	48,54,58,66	0
43	0TD	2l	92	10/11	0.90	0.12	68,70,73,87	0
1	PSU	2A	1911	20/21	0.90	0.12	64,70,78,82	0
1	5MU	1A	1915	21/22	0.90	0.10	53,61,69,79	0
32	PSU	1a	516	20/21	0.91	0.09	58,64,70,77	0
1	PSU	2A	1917	20/21	0.91	0.12	62,75,79,81	0
55	5MU	1x	54	21/22	0.92	0.11	60,66,70,74	0
32	2MG	1a	1207	24/25	0.92	0.11	59,68,74,81	0
32	5MC	2a	1400	21/22	0.92	0.15	65,72,76,78	0
56	FME	2z	1	10/11	0.92	0.16	49,55,58,65	0
32	G7M	2a	527	24/25	0.93	0.10	60,68,72,74	0
32	4OC	2a	1402	22/23	0.93	0.11	55,66,69,74	0
55	PSU	1x	55	20/21	0.93	0.09	49,58,67,71	0
1	OMC	2A	1920	21/22	0.94	0.11	57,65,72,74	0
55	5MC	1x	32	21/22	0.94	0.13	48,52,62,62	0
32	5MC	2a	1407	21/22	0.94	0.10	56,61,62,66	0
56	FME	1z	1	10/11	0.94	0.15	37,45,49,51	0
55	4SU	1x	8	20/21	0.94	0.11	59,64,69,73	0
32	UR3	2a	1498	21/22	0.95	0.11	55,60,66,73	0
32	MA6	2a	1518	24/25	0.95	0.11	52,66,70,72	0
1	5MC	2A	1942	21/22	0.95	0.10	46,60,65,69	0
1	5MC	2A	1962	21/22	0.95	0.11	42,52,56,76	0
55	5MC	2x	32	21/22	0.95	0.12	63,72,77,83	0
32	G7M	1a	527	24/25	0.95	0.09	41,47,54,58	0
32	5MC	1a	967	21/22	0.95	0.09	56,61,66,69	0
55	8AN	2x	76	22/23	0.95	0.10	43,52,58,59	0
32	5MC	2a	1404	21/22	0.95	0.10	53,62,64,67	0
1	PSU	1A	1917	20/21	0.95	0.07	46,55,62,62	0
32	M2G	1a	966	25/26	0.96	0.10	44,58,64,67	0
1	OMG	2A	2251	24/25	0.96	0.09	36,41,47,49	0
1	OMU	2A	2552	21/22	0.96	0.09	33,45,50,51	0
1	PSU	2A	2605	20/21	0.96	0.09	31,41,47,47	0
32	5MC	1a	1400	21/22	0.96	0.10	47,50,55,61	0
32	5MC	1a	1404	21/22	0.96	0.09	35,43,48,52	0
32	MA6	1a	1519	24/25	0.96	0.09	36,43,47,50	0
32	MA6	2a	1519	24/25	0.96	0.12	54,65,72,74	0
1	5MC	1A	1942	21/22	0.96	0.09	38,44,50,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MA6	1a	1518	24/25	0.97	0.09	34,44,49,50	0
1	5MU	2A	1939	21/22	0.97	0.07	33,40,45,47	0
1	PSU	1A	1911	20/21	0.97	0.08	41,49,54,57	0
55	8AN	1x	76	22/23	0.97	0.08	24,34,42,44	0
32	4OC	1a	1402	22/23	0.97	0.09	43,48,53,57	0
1	2MA	2A	2503	23/24	0.97	0.08	26,37,41,47	0
1	OMC	1A	1920	21/22	0.97	0.07	34,45,50,52	0
32	5MC	1a	1407	21/22	0.97	0.07	33,42,47,48	0
1	PSU	1A	2605	20/21	0.98	0.07	21,28,34,34	0
1	5MU	1A	1939	21/22	0.98	0.05	22,29,31,35	0
1	5MC	1A	1962	21/22	0.98	0.06	22,31,36,45	0
1	OMG	1A	2251	24/25	0.98	0.05	21,26,29,31	0
32	UR3	1a	1498	21/22	0.98	0.07	33,42,44,45	0
1	2MA	1A	2503	23/24	0.98	0.06	16,23,27,27	0
1	OMU	1A	2552	21/22	0.98	0.06	23,28,32,35	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1798	1/1	0.55	0.17	81,81,81,81	0
58	MG	2A	3385	1/1	0.58	0.16	84,84,84,84	0
58	MG	2a	1756	1/1	0.62	0.18	82,82,82,82	0
58	MG	1B	229	1/1	0.63	0.20	74,74,74,74	0
58	MG	2A	3451	1/1	0.63	0.28	83,83,83,83	0
58	MG	2A	3437	1/1	0.64	0.29	77,77,77,77	0
58	MG	1a	1804	1/1	0.65	0.18	72,72,72,72	0
58	MG	1A	3260	1/1	0.65	0.20	85,85,85,85	0
58	MG	1a	1738	1/1	0.65	0.21	77,77,77,77	0
58	MG	1B	230	1/1	0.66	0.23	78,78,78,78	0
58	MG	2A	3755	1/1	0.66	0.26	59,59,59,59	0
58	MG	1A	3683	1/1	0.67	0.20	63,63,63,63	0
58	MG	2A	3113	1/1	0.67	0.30	70,70,70,70	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3171	1/1	0.68	0.20	80,80,80,80	0
58	MG	1A	3844	1/1	0.68	0.19	77,77,77,77	0
58	MG	2A	3669	1/1	0.68	0.18	77,77,77,77	0
58	MG	2A	3731	1/1	0.69	0.15	81,81,81,81	0
58	MG	2A	3608	1/1	0.69	0.20	63,63,63,63	0
58	MG	2A	3615	1/1	0.69	0.23	68,68,68,68	0
58	MG	2A	3175	1/1	0.69	0.23	68,68,68,68	0
58	MG	1A	3643	1/1	0.70	0.16	69,69,69,69	0
58	MG	2a	1789	1/1	0.70	0.20	70,70,70,70	0
58	MG	2a	1638	1/1	0.70	0.12	81,81,81,81	0
58	MG	1a	1809	1/1	0.71	0.18	72,72,72,72	0
58	MG	2G	201	1/1	0.71	0.23	75,75,75,75	0
58	MG	2A	3573	1/1	0.71	0.22	69,69,69,69	0
58	MG	1a	1733	1/1	0.72	0.17	85,85,85,85	0
58	MG	2A	3273	1/1	0.72	0.20	71,71,71,71	0
58	MG	2A	3332	1/1	0.73	0.25	72,72,72,72	0
58	MG	2A	3664	1/1	0.73	0.25	69,69,69,69	0
58	MG	1a	1802	1/1	0.73	0.24	81,81,81,81	0
58	MG	2a	1622	1/1	0.73	0.22	83,83,83,83	0
58	MG	2a	1607	1/1	0.74	0.36	67,67,67,67	0
58	MG	2A	3679	1/1	0.74	0.16	72,72,72,72	0
58	MG	2a	1805	1/1	0.74	0.20	68,68,68,68	0
58	MG	2A	3526	1/1	0.75	0.17	66,66,66,66	0
58	MG	2A	3704	1/1	0.75	0.20	69,69,69,69	0
58	MG	2a	1818	1/1	0.75	0.18	79,79,79,79	0
58	MG	2B	214	1/1	0.76	0.18	71,71,71,71	0
58	MG	1a	1731	1/1	0.76	0.18	66,66,66,66	0
58	MG	2a	1601	1/1	0.77	0.19	74,74,74,74	0
58	MG	1A	3772	1/1	0.77	0.14	20,20,20,20	0
58	MG	2A	3192	1/1	0.77	0.20	69,69,69,69	0
58	MG	1A	4083	1/1	0.77	0.16	58,58,58,58	0
58	MG	2a	1725	1/1	0.77	0.27	80,80,80,80	0
58	MG	1a	1760	1/1	0.77	0.12	67,67,67,67	0
58	MG	2A	3335	1/1	0.77	0.21	77,77,77,77	0
58	MG	2A	3833	1/1	0.77	0.20	65,65,65,65	0
58	MG	2A	3355	1/1	0.77	0.18	69,69,69,69	0
58	MG	2a	1812	1/1	0.77	0.18	83,83,83,83	0
58	MG	2a	1815	1/1	0.77	0.14	76,76,76,76	0
58	MG	1A	4089	1/1	0.77	0.17	45,45,45,45	0
58	MG	1A	3466	1/1	0.78	0.18	62,62,62,62	0
58	MG	1A	3882	1/1	0.78	0.13	23,23,23,23	0
58	MG	1x	109	1/1	0.78	0.34	68,68,68,68	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3327	1/1	0.78	0.16	71,71,71,71	0
58	MG	2A	3508	1/1	0.78	0.12	29,29,29,29	0
58	MG	2A	3690	1/1	0.78	0.12	70,70,70,70	0
58	MG	1A	4082	1/1	0.78	0.14	60,60,60,60	0
58	MG	1A	3267	1/1	0.78	0.20	62,62,62,62	0
58	MG	2a	1821	1/1	0.78	0.24	69,69,69,69	0
58	MG	2R	201	1/1	0.79	0.24	77,77,77,77	0
58	MG	1a	1755	1/1	0.79	0.12	60,60,60,60	0
58	MG	2A	3670	1/1	0.79	0.14	68,68,68,68	0
58	MG	1U	208	1/1	0.79	0.48	67,67,67,67	0
58	MG	1a	1622	1/1	0.79	0.20	66,66,66,66	0
58	MG	2a	1706	1/1	0.79	0.19	77,77,77,77	0
58	MG	1a	1697	1/1	0.79	0.17	66,66,66,66	0
58	MG	2A	3723	1/1	0.79	0.15	68,68,68,68	0
58	MG	1A	3752	1/1	0.79	0.13	65,65,65,65	0
58	MG	2A	3738	1/1	0.79	0.17	46,46,46,46	0
58	MG	1A	3468	1/1	0.79	0.13	56,56,56,56	0
58	MG	2A	3758	1/1	0.79	0.12	67,67,67,67	0
58	MG	1A	3687	1/1	0.79	0.13	64,64,64,64	0
58	MG	2A	3152	1/1	0.79	0.23	60,60,60,60	0
58	MG	2A	3380	1/1	0.79	0.29	76,76,76,76	0
58	MG	2j	201	1/1	0.79	0.20	71,71,71,71	0
58	MG	1A	3960	1/1	0.80	0.15	58,58,58,58	0
58	MG	2a	1655	1/1	0.80	0.17	80,80,80,80	0
58	MG	2A	3418	1/1	0.80	0.32	68,68,68,68	0
58	MG	2A	3653	1/1	0.80	0.14	65,65,65,65	0
58	MG	2A	3432	1/1	0.80	0.23	54,54,54,54	0
58	MG	1A	3957	1/1	0.80	0.10	46,46,46,46	0
58	MG	2A	3205	1/1	0.80	0.11	60,60,60,60	0
58	MG	2a	1800	1/1	0.80	0.17	86,86,86,86	0
58	MG	2A	3483	1/1	0.80	0.31	67,67,67,67	0
58	MG	2P	202	1/1	0.80	0.23	66,66,66,66	0
58	MG	2A	3097	1/1	0.80	0.15	72,72,72,72	0
58	MG	2A	3357	1/1	0.80	0.19	54,54,54,54	0
58	MG	2A	3705	1/1	0.80	0.18	59,59,59,59	0
58	MG	2A	3276	1/1	0.80	0.19	72,72,72,72	0
58	MG	2A	3024	1/1	0.81	0.15	61,61,61,61	0
58	MG	2A	3159	1/1	0.81	0.24	66,66,66,66	0
58	MG	2a	1733	1/1	0.81	0.22	70,70,70,70	0
58	MG	2a	1735	1/1	0.81	0.18	69,69,69,69	0
58	MG	1A	3326	1/1	0.81	0.11	65,65,65,65	0
58	MG	2A	3173	1/1	0.81	0.20	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3678	1/1	0.81	0.12	56,56,56,56	0
58	MG	2A	3106	1/1	0.81	0.30	72,72,72,72	0
58	MG	2A	3337	1/1	0.81	0.18	76,76,76,76	0
58	MG	1B	213	1/1	0.81	0.19	67,67,67,67	0
58	MG	2A	3115	1/1	0.81	0.22	62,62,62,62	0
58	MG	2A	3605	1/1	0.81	0.17	75,75,75,75	0
58	MG	2A	3256	1/1	0.81	0.14	58,58,58,58	0
58	MG	2A	3270	1/1	0.81	0.15	78,78,78,78	0
58	MG	2y	101	1/1	0.81	0.33	71,71,71,71	0
58	MG	2A	3773	1/1	0.82	0.10	46,46,46,46	0
58	MG	2A	3817	1/1	0.82	0.17	48,48,48,48	0
58	MG	1A	3878	1/1	0.82	0.12	61,61,61,61	0
58	MG	2B	208	1/1	0.82	0.10	62,62,62,62	0
58	MG	2A	3212	1/1	0.82	0.14	67,67,67,67	0
58	MG	2D	303	1/1	0.82	0.19	64,64,64,64	0
58	MG	2F	307	1/1	0.82	0.11	64,64,64,64	0
58	MG	2A	3502	1/1	0.82	0.16	55,55,55,55	0
58	MG	1B	234	1/1	0.82	0.16	66,66,66,66	0
58	MG	1A	3458	1/1	0.82	0.21	63,63,63,63	0
58	MG	20	104	1/1	0.82	0.11	55,55,55,55	0
58	MG	1A	3893	1/1	0.82	0.17	73,73,73,73	0
58	MG	2A	3600	1/1	0.82	0.17	55,55,55,55	0
58	MG	2A	3051	1/1	0.82	0.27	69,69,69,69	0
58	MG	2A	3291	1/1	0.82	0.14	59,59,59,59	0
58	MG	2A	3325	1/1	0.82	0.23	68,68,68,68	0
58	MG	2a	1704	1/1	0.82	0.14	55,55,55,55	0
58	MG	1a	1636	1/1	0.82	0.28	73,73,73,73	0
58	MG	1a	1683	1/1	0.82	0.28	68,68,68,68	0
58	MG	1A	3294	1/1	0.82	0.20	55,55,55,55	0
58	MG	1A	3707	1/1	0.82	0.11	29,29,29,29	0
58	MG	2A	3350	1/1	0.82	0.14	63,63,63,63	0
58	MG	2a	1757	1/1	0.82	0.09	89,89,89,89	0
58	MG	1A	3749	1/1	0.82	0.14	51,51,51,51	0
58	MG	1a	1737	1/1	0.82	0.24	62,62,62,62	0
58	MG	1A	3251	1/1	0.82	0.14	50,50,50,50	0
58	MG	1A	3536	1/1	0.82	0.12	59,59,59,59	0
58	MG	2A	3390	1/1	0.82	0.19	68,68,68,68	0
58	MG	2a	1814	1/1	0.82	0.20	63,63,63,63	0
58	MG	2A	3728	1/1	0.82	0.19	56,56,56,56	0
58	MG	1A	3809	1/1	0.82	0.14	51,51,51,51	0
58	MG	2A	3191	1/1	0.82	0.32	69,69,69,69	0
58	MG	1A	3383	1/1	0.82	0.14	61,61,61,61	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2x	103	1/1	0.82	0.19	69,69,69,69	0
58	MG	2A	3444	1/1	0.82	0.12	67,67,67,67	0
58	MG	2A	3300	1/1	0.83	0.22	59,59,59,59	0
58	MG	2A	3472	1/1	0.83	0.10	72,72,72,72	0
58	MG	1A	4019	1/1	0.83	0.15	75,75,75,75	0
58	MG	2a	1641	1/1	0.83	0.28	67,67,67,67	0
58	MG	1A	3801	1/1	0.83	0.14	53,53,53,53	0
58	MG	2a	1681	1/1	0.83	0.24	71,71,71,71	0
58	MG	2a	1700	1/1	0.83	0.13	75,75,75,75	0
58	MG	1w	101	1/1	0.83	0.15	77,77,77,77	0
58	MG	1w	103	1/1	0.83	0.17	87,87,87,87	0
58	MG	2a	1714	1/1	0.83	0.28	67,67,67,67	0
58	MG	2a	1715	1/1	0.83	0.12	63,63,63,63	0
58	MG	1E	314	1/1	0.83	0.30	50,50,50,50	0
58	MG	2A	3023	1/1	0.83	0.20	71,71,71,71	0
58	MG	1A	3329	1/1	0.83	0.13	52,52,52,52	0
58	MG	2A	3782	1/1	0.83	0.14	79,79,79,79	0
58	MG	2A	3044	1/1	0.83	0.20	66,66,66,66	0
58	MG	1A	3923	1/1	0.83	0.13	30,30,30,30	0
58	MG	2A	3646	1/1	0.83	0.13	77,77,77,77	0
58	MG	2A	3384	1/1	0.83	0.15	66,66,66,66	0
58	MG	2B	216	1/1	0.83	0.16	72,72,72,72	0
58	MG	2A	3052	1/1	0.83	0.22	67,67,67,67	0
58	MG	2A	3065	1/1	0.83	0.17	77,77,77,77	0
58	MG	2A	3075	1/1	0.83	0.17	72,72,72,72	0
58	MG	2A	3672	1/1	0.83	0.17	68,68,68,68	0
58	MG	1A	3626	1/1	0.83	0.16	48,48,48,48	0
58	MG	1a	1680	1/1	0.83	0.19	67,67,67,67	0
58	MG	2l	202	1/1	0.83	0.23	68,68,68,68	0
58	MG	2x	102	1/1	0.83	0.18	65,65,65,65	0
58	MG	28	101	1/1	0.83	0.26	64,64,64,64	0
58	MG	1A	3470	1/1	0.83	0.15	60,60,60,60	0
58	MG	20	103	1/1	0.84	0.16	59,59,59,59	0
58	MG	2A	3364	1/1	0.84	0.14	71,71,71,71	0
58	MG	2a	1742	1/1	0.84	0.26	77,77,77,77	0
58	MG	2a	1752	1/1	0.84	0.10	71,71,71,71	0
58	MG	2A	3089	1/1	0.84	0.14	58,58,58,58	0
58	MG	2A	3457	1/1	0.84	0.17	72,72,72,72	0
58	MG	1x	105	1/1	0.84	0.32	69,69,69,69	0
58	MG	2A	3634	1/1	0.84	0.15	41,41,41,41	0
58	MG	2A	3849	1/1	0.84	0.17	61,61,61,61	0
58	MG	1A	3992	1/1	0.84	0.10	29,29,29,29	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3313	1/1	0.84	0.13	59,59,59,59	0
58	MG	2A	3654	1/1	0.84	0.21	73,73,73,73	0
58	MG	2B	220	1/1	0.84	0.18	76,76,76,76	0
58	MG	2A	3729	1/1	0.84	0.16	66,66,66,66	0
58	MG	1a	1670	1/1	0.84	0.18	55,55,55,55	0
58	MG	2d	302	1/1	0.84	0.14	70,70,70,70	0
58	MG	2A	3197	1/1	0.84	0.16	66,66,66,66	0
58	MG	2k	201	1/1	0.84	0.12	64,64,64,64	0
58	MG	2A	3743	1/1	0.84	0.21	48,48,48,48	0
58	MG	2a	1717	1/1	0.84	0.20	76,76,76,76	0
58	MG	2a	1720	1/1	0.84	0.16	68,68,68,68	0
58	MG	2A	3359	1/1	0.84	0.12	75,75,75,75	0
58	MG	2A	3193	1/1	0.85	0.23	62,62,62,62	0
58	MG	2A	3530	1/1	0.85	0.22	63,63,63,63	0
58	MG	2A	3554	1/1	0.85	0.15	55,55,55,55	0
58	MG	2a	1674	1/1	0.85	0.22	67,67,67,67	0
58	MG	2A	3195	1/1	0.85	0.15	69,69,69,69	0
58	MG	2a	1684	1/1	0.85	0.22	62,62,62,62	0
58	MG	2A	3746	1/1	0.85	0.15	61,61,61,61	0
58	MG	2A	3582	1/1	0.85	0.19	81,81,81,81	0
58	MG	1a	1743	1/1	0.85	0.18	64,64,64,64	0
58	MG	1A	3810	1/1	0.85	0.14	46,46,46,46	0
58	MG	2A	3366	1/1	0.85	0.16	57,57,57,57	0
58	MG	2A	3792	1/1	0.85	0.10	73,73,73,73	0
58	MG	1a	1628	1/1	0.85	0.11	56,56,56,56	0
58	MG	1a	1776	1/1	0.85	0.11	66,66,66,66	0
58	MG	2A	3635	1/1	0.85	0.12	46,46,46,46	0
58	MG	2A	3862	1/1	0.85	0.18	62,62,62,62	0
58	MG	2B	203	1/1	0.85	0.20	63,63,63,63	0
58	MG	2B	204	1/1	0.85	0.16	70,70,70,70	0
58	MG	2B	206	1/1	0.85	0.17	58,58,58,58	0
58	MG	2A	3091	1/1	0.85	0.12	70,70,70,70	0
58	MG	2a	1781	1/1	0.85	0.14	63,63,63,63	0
58	MG	2a	1787	1/1	0.85	0.13	72,72,72,72	0
58	MG	2a	1788	1/1	0.85	0.15	65,65,65,65	0
58	MG	1B	222	1/1	0.85	0.17	58,58,58,58	0
58	MG	2A	3391	1/1	0.85	0.12	66,66,66,66	0
58	MG	1A	3245	1/1	0.85	0.12	59,59,59,59	0
58	MG	2A	3667	1/1	0.85	0.18	56,56,56,56	0
58	MG	1A	3956	1/1	0.85	0.10	45,45,45,45	0
58	MG	1A	3236	1/1	0.85	0.21	42,42,42,42	0
58	MG	1a	1687	1/1	0.85	0.31	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3388	1/1	0.85	0.17	61,61,61,61	0
58	MG	1G	203	1/1	0.85	0.10	68,68,68,68	0
58	MG	1P	206	1/1	0.85	0.24	55,55,55,55	0
58	MG	2A	3482	1/1	0.85	0.17	54,54,54,54	0
58	MG	1A	4094	1/1	0.85	0.17	53,53,53,53	0
58	MG	1W	207	1/1	0.85	0.19	32,32,32,32	0
58	MG	2t	201	1/1	0.85	0.19	48,48,48,48	0
58	MG	2w	101	1/1	0.85	0.27	84,84,84,84	0
58	MG	2a	1608	1/1	0.85	0.35	78,78,78,78	0
58	MG	1a	1739	1/1	0.85	0.15	62,62,62,62	0
58	MG	2a	1633	1/1	0.85	0.21	73,73,73,73	0
58	MG	1a	1768	1/1	0.86	0.14	64,64,64,64	0
58	MG	2A	3264	1/1	0.86	0.19	67,67,67,67	0
58	MG	2a	1630	1/1	0.86	0.17	62,62,62,62	0
58	MG	1A	3946	1/1	0.86	0.19	67,67,67,67	0
58	MG	2A	3434	1/1	0.86	0.20	59,59,59,59	0
58	MG	2A	3701	1/1	0.86	0.11	39,39,39,39	0
58	MG	2A	3703	1/1	0.86	0.17	63,63,63,63	0
58	MG	2A	3272	1/1	0.86	0.17	66,66,66,66	0
58	MG	1A	3191	1/1	0.86	0.18	53,53,53,53	0
58	MG	1A	3595	1/1	0.86	0.10	52,52,52,52	0
58	MG	1A	3833	1/1	0.86	0.13	46,46,46,46	0
58	MG	2a	1702	1/1	0.86	0.16	55,55,55,55	0
58	MG	2A	3292	1/1	0.86	0.30	73,73,73,73	0
58	MG	1b	301	1/1	0.86	0.20	81,81,81,81	0
58	MG	2A	3302	1/1	0.86	0.16	62,62,62,62	0
58	MG	2A	3739	1/1	0.86	0.14	72,72,72,72	0
58	MG	2A	3485	1/1	0.86	0.20	61,61,61,61	0
58	MG	2A	3495	1/1	0.86	0.15	64,64,64,64	0
58	MG	2A	3126	1/1	0.86	0.09	66,66,66,66	0
58	MG	1A	3599	1/1	0.86	0.22	73,73,73,73	0
58	MG	2a	1734	1/1	0.86	0.17	70,70,70,70	0
58	MG	2A	3763	1/1	0.86	0.20	74,74,74,74	0
58	MG	2A	3509	1/1	0.86	0.18	65,65,65,65	0
58	MG	2A	3153	1/1	0.86	0.14	62,62,62,62	0
58	MG	2a	1754	1/1	0.86	0.12	67,67,67,67	0
58	MG	1a	1714	1/1	0.86	0.24	58,58,58,58	0
58	MG	2A	3541	1/1	0.86	0.09	46,46,46,46	0
58	MG	2a	1766	1/1	0.86	0.17	79,79,79,79	0
58	MG	2A	3165	1/1	0.86	0.08	41,41,41,41	0
58	MG	2A	3561	1/1	0.86	0.09	35,35,35,35	0
58	MG	2A	3859	1/1	0.86	0.33	68,68,68,68	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1730	1/1	0.86	0.11	69,69,69,69	0
58	MG	2A	3348	1/1	0.86	0.17	59,59,59,59	0
58	MG	1A	3864	1/1	0.86	0.13	52,52,52,52	0
58	MG	1A	4061	1/1	0.86	0.14	45,45,45,45	0
58	MG	2a	1806	1/1	0.86	0.25	61,61,61,61	0
58	MG	1A	4078	1/1	0.86	0.12	49,49,49,49	0
58	MG	2A	3613	1/1	0.86	0.18	65,65,65,65	0
58	MG	2A	3358	1/1	0.86	0.11	70,70,70,70	0
58	MG	2A	3029	1/1	0.86	0.20	77,77,77,77	0
58	MG	2A	3362	1/1	0.86	0.17	65,65,65,65	0
58	MG	2a	1829	1/1	0.86	0.21	72,72,72,72	0
58	MG	1A	3610	1/1	0.86	0.12	35,35,35,35	0
58	MG	2A	3649	1/1	0.86	0.14	70,70,70,70	0
58	MG	1A	3621	1/1	0.86	0.12	33,33,33,33	0
58	MG	1A	3502	1/1	0.86	0.13	45,45,45,45	0
58	MG	2n	101	1/1	0.86	0.29	72,72,72,72	0
58	MG	2A	3657	1/1	0.86	0.13	64,64,64,64	0
58	MG	1A	3531	1/1	0.86	0.21	50,50,50,50	0
58	MG	2A	3206	1/1	0.86	0.17	66,66,66,66	0
58	MG	2A	3389	1/1	0.86	0.11	68,68,68,68	0
58	MG	1B	203	1/1	0.86	0.22	49,49,49,49	0
58	MG	1A	3889	1/1	0.87	0.12	34,34,34,34	0
58	MG	2A	3607	1/1	0.87	0.11	31,31,31,31	0
58	MG	2A	3103	1/1	0.87	0.20	58,58,58,58	0
58	MG	2A	3387	1/1	0.87	0.14	57,57,57,57	0
58	MG	1a	1631	1/1	0.87	0.32	59,59,59,59	0
58	MG	2a	1707	1/1	0.87	0.29	69,69,69,69	0
58	MG	2A	3804	1/1	0.87	0.13	55,55,55,55	0
58	MG	1A	3435	1/1	0.87	0.11	59,59,59,59	0
58	MG	1a	1664	1/1	0.87	0.17	59,59,59,59	0
58	MG	2A	3412	1/1	0.87	0.18	54,54,54,54	0
58	MG	1A	4093	1/1	0.87	0.11	69,69,69,69	0
58	MG	1A	3791	1/1	0.87	0.10	31,31,31,31	0
58	MG	2A	3864	1/1	0.87	0.16	64,64,64,64	0
58	MG	1A	3525	1/1	0.87	0.11	52,52,52,52	0
58	MG	1A	3951	1/1	0.87	0.18	65,65,65,65	0
58	MG	2a	1744	1/1	0.87	0.24	65,65,65,65	0
58	MG	2A	3317	1/1	0.87	0.18	52,52,52,52	0
58	MG	1x	101	1/1	0.87	0.32	62,62,62,62	0
58	MG	2B	210	1/1	0.87	0.14	71,71,71,71	0
58	MG	1a	1690	1/1	0.87	0.23	63,63,63,63	0
58	MG	1A	3244	1/1	0.87	0.13	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3334	1/1	0.87	0.25	70,70,70,70	0
58	MG	1A	3646	1/1	0.87	0.11	35,35,35,35	0
58	MG	2D	306	1/1	0.87	0.24	53,53,53,53	0
58	MG	1A	3824	1/1	0.87	0.08	35,35,35,35	0
58	MG	2A	3686	1/1	0.87	0.12	45,45,45,45	0
58	MG	2A	3338	1/1	0.87	0.11	73,73,73,73	0
58	MG	1A	3335	1/1	0.87	0.20	64,64,64,64	0
58	MG	1A	3543	1/1	0.87	0.09	62,62,62,62	0
58	MG	1A	4043	1/1	0.87	0.12	45,45,45,45	0
58	MG	1O	204	1/1	0.87	0.14	71,71,71,71	0
58	MG	2A	3721	1/1	0.87	0.12	69,69,69,69	0
58	MG	2a	1817	1/1	0.87	0.22	73,73,73,73	0
58	MG	1A	3187	1/1	0.87	0.10	52,52,52,52	0
58	MG	2A	3067	1/1	0.87	0.23	58,58,58,58	0
58	MG	1A	4076	1/1	0.87	0.21	47,47,47,47	0
58	MG	2a	1623	1/1	0.87	0.10	59,59,59,59	0
58	MG	2A	3232	1/1	0.87	0.43	54,54,54,54	0
58	MG	2A	3572	1/1	0.87	0.19	55,55,55,55	0
58	MG	2a	1637	1/1	0.87	0.36	67,67,67,67	0
58	MG	1A	3261	1/1	0.87	0.14	52,52,52,52	0
58	MG	2A	3740	1/1	0.87	0.20	60,60,60,60	0
58	MG	2a	1650	1/1	0.87	0.10	57,57,57,57	0
58	MG	2A	3576	1/1	0.87	0.10	55,55,55,55	0
58	MG	2A	3376	1/1	0.87	0.12	61,61,61,61	0
58	MG	2x	106	1/1	0.87	0.11	59,59,59,59	0
58	MG	1A	3472	1/1	0.87	0.31	64,64,64,64	0
58	MG	2B	218	1/1	0.88	0.16	76,76,76,76	0
58	MG	2A	3594	1/1	0.88	0.09	35,35,35,35	0
58	MG	1a	1774	1/1	0.88	0.11	54,54,54,54	0
58	MG	2A	3601	1/1	0.88	0.22	71,71,71,71	0
58	MG	1A	3913	1/1	0.88	0.08	30,30,30,30	0
58	MG	1A	3457	1/1	0.88	0.19	61,61,61,61	0
58	MG	1A	3584	1/1	0.88	0.10	34,34,34,34	0
58	MG	1A	3486	1/1	0.88	0.11	46,46,46,46	0
58	MG	1a	1642	1/1	0.88	0.19	65,65,65,65	0
58	MG	1B	211	1/1	0.88	0.09	44,44,44,44	0
58	MG	2A	3185	1/1	0.88	0.23	63,63,63,63	0
58	MG	1A	3208	1/1	0.88	0.17	63,63,63,63	0
58	MG	1A	3839	1/1	0.88	0.27	65,65,65,65	0
58	MG	1x	102	1/1	0.88	0.23	65,65,65,65	0
58	MG	1A	3507	1/1	0.88	0.11	59,59,59,59	0
58	MG	2A	3370	1/1	0.88	0.33	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3372	1/1	0.88	0.12	67,67,67,67	0
58	MG	1a	1684	1/1	0.88	0.10	62,62,62,62	0
58	MG	2A	3668	1/1	0.88	0.10	57,57,57,57	0
58	MG	2A	3198	1/1	0.88	0.26	64,64,64,64	0
58	MG	1A	3848	1/1	0.88	0.12	61,61,61,61	0
58	MG	2a	1642	1/1	0.88	0.24	69,69,69,69	0
58	MG	1A	3386	1/1	0.88	0.24	27,27,27,27	0
58	MG	2A	3676	1/1	0.88	0.16	59,59,59,59	0
58	MG	2a	1657	1/1	0.88	0.10	61,61,61,61	0
58	MG	2a	1663	1/1	0.88	0.15	84,84,84,84	0
58	MG	1a	1694	1/1	0.88	0.19	49,49,49,49	0
58	MG	2a	1677	1/1	0.88	0.22	63,63,63,63	0
58	MG	2A	3213	1/1	0.88	0.12	53,53,53,53	0
58	MG	2a	1682	1/1	0.88	0.11	75,75,75,75	0
58	MG	1E	311	1/1	0.88	0.08	29,29,29,29	0
58	MG	2A	3687	1/1	0.88	0.14	58,58,58,58	0
58	MG	2a	1701	1/1	0.88	0.17	73,73,73,73	0
58	MG	2A	3237	1/1	0.88	0.19	57,57,57,57	0
58	MG	2A	3395	1/1	0.88	0.11	65,65,65,65	0
58	MG	2A	3404	1/1	0.88	0.20	52,52,52,52	0
58	MG	2A	3243	1/1	0.88	0.14	60,60,60,60	0
58	MG	2a	1708	1/1	0.88	0.14	66,66,66,66	0
58	MG	2A	3247	1/1	0.88	0.12	64,64,64,64	0
58	MG	2A	3422	1/1	0.88	0.32	68,68,68,68	0
58	MG	1E	313	1/1	0.88	0.14	61,61,61,61	0
58	MG	1A	3167	1/1	0.88	0.10	38,38,38,38	0
58	MG	1A	3881	1/1	0.88	0.13	49,49,49,49	0
58	MG	2a	1728	1/1	0.88	0.15	61,61,61,61	0
58	MG	1A	3781	1/1	0.88	0.10	36,36,36,36	0
58	MG	2A	3733	1/1	0.88	0.12	77,77,77,77	0
58	MG	2A	3737	1/1	0.88	0.19	69,69,69,69	0
58	MG	2a	1737	1/1	0.88	0.09	66,66,66,66	0
58	MG	1A	3639	1/1	0.88	0.09	41,41,41,41	0
58	MG	1A	3367	1/1	0.88	0.15	47,47,47,47	0
58	MG	2a	1750	1/1	0.88	0.14	74,74,74,74	0
58	MG	2A	3280	1/1	0.88	0.19	67,67,67,67	0
58	MG	2A	3288	1/1	0.88	0.28	65,65,65,65	0
58	MG	1A	3897	1/1	0.88	0.10	35,35,35,35	0
58	MG	1Z	301	1/1	0.88	0.09	70,70,70,70	0
58	MG	2a	1761	1/1	0.88	0.21	65,65,65,65	0
58	MG	2A	3757	1/1	0.88	0.14	76,76,76,76	0
58	MG	2A	3295	1/1	0.88	0.09	76,76,76,76	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1784	1/1	0.88	0.16	86,86,86,86	0
58	MG	2A	3297	1/1	0.88	0.16	60,60,60,60	0
58	MG	2A	3098	1/1	0.88	0.14	77,77,77,77	0
58	MG	2A	3775	1/1	0.88	0.10	62,62,62,62	0
58	MG	2a	1794	1/1	0.88	0.20	66,66,66,66	0
58	MG	2A	3776	1/1	0.88	0.12	62,62,62,62	0
58	MG	1a	1747	1/1	0.88	0.07	49,49,49,49	0
58	MG	2a	1801	1/1	0.88	0.19	60,60,60,60	0
58	MG	2a	1802	1/1	0.88	0.26	68,68,68,68	0
58	MG	2A	3783	1/1	0.88	0.11	69,69,69,69	0
58	MG	2A	3510	1/1	0.88	0.10	44,44,44,44	0
58	MG	2A	3522	1/1	0.88	0.10	43,43,43,43	0
58	MG	2A	3809	1/1	0.88	0.09	37,37,37,37	0
58	MG	2A	3304	1/1	0.88	0.12	69,69,69,69	0
58	MG	1Z	302	1/1	0.88	0.13	55,55,55,55	0
58	MG	2A	3846	1/1	0.88	0.11	69,69,69,69	0
58	MG	2A	3540	1/1	0.88	0.12	50,50,50,50	0
58	MG	2a	1825	1/1	0.88	0.30	68,68,68,68	0
58	MG	2a	1826	1/1	0.88	0.14	58,58,58,58	0
58	MG	2A	3852	1/1	0.88	0.14	68,68,68,68	0
58	MG	2A	3110	1/1	0.88	0.08	72,72,72,72	0
58	MG	2A	3860	1/1	0.88	0.22	70,70,70,70	0
58	MG	2A	3324	1/1	0.88	0.12	51,51,51,51	0
58	MG	2l	201	1/1	0.88	0.09	66,66,66,66	0
58	MG	10	105	1/1	0.88	0.13	66,66,66,66	0
58	MG	2A	3564	1/1	0.88	0.16	55,55,55,55	0
58	MG	1a	1761	1/1	0.88	0.11	62,62,62,62	0
58	MG	2A	3329	1/1	0.88	0.25	72,72,72,72	0
58	MG	1a	1602	1/1	0.88	0.32	62,62,62,62	0
58	MG	2A	3578	1/1	0.88	0.19	60,60,60,60	0
58	MG	2x	105	1/1	0.88	0.26	68,68,68,68	0
58	MG	2A	3127	1/1	0.88	0.12	68,68,68,68	0
58	MG	2A	3585	1/1	0.88	0.09	60,60,60,60	0
58	MG	1A	3131	1/1	0.89	0.10	42,42,42,42	0
58	MG	1A	4047	1/1	0.89	0.07	17,17,17,17	0
58	MG	20	102	1/1	0.89	0.26	69,69,69,69	0
58	MG	1a	1677	1/1	0.89	0.21	52,52,52,52	0
58	MG	2A	3090	1/1	0.89	0.15	49,49,49,49	0
58	MG	1A	3590	1/1	0.89	0.24	59,59,59,59	0
58	MG	2A	3092	1/1	0.89	0.12	57,57,57,57	0
58	MG	1A	3265	1/1	0.89	0.21	66,66,66,66	0
58	MG	2A	3636	1/1	0.89	0.11	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1610	1/1	0.89	0.12	59,59,59,59	0
58	MG	2a	1612	1/1	0.89	0.12	64,64,64,64	0
58	MG	2a	1621	1/1	0.89	0.25	69,69,69,69	0
58	MG	2A	3642	1/1	0.89	0.10	51,51,51,51	0
58	MG	1A	3817	1/1	0.89	0.09	52,52,52,52	0
58	MG	2a	1624	1/1	0.89	0.20	56,56,56,56	0
58	MG	2a	1627	1/1	0.89	0.19	66,66,66,66	0
58	MG	1A	3350	1/1	0.89	0.22	59,59,59,59	0
58	MG	1A	3601	1/1	0.89	0.10	47,47,47,47	0
58	MG	1A	3253	1/1	0.89	0.09	44,44,44,44	0
58	MG	1a	1695	1/1	0.89	0.26	60,60,60,60	0
58	MG	2A	3662	1/1	0.89	0.14	64,64,64,64	0
58	MG	1A	3840	1/1	0.89	0.10	47,47,47,47	0
58	MG	2a	1644	1/1	0.89	0.14	56,56,56,56	0
58	MG	1a	1701	1/1	0.89	0.17	54,54,54,54	0
58	MG	2a	1653	1/1	0.89	0.16	63,63,63,63	0
58	MG	1A	3372	1/1	0.89	0.27	50,50,50,50	0
58	MG	2A	3136	1/1	0.89	0.13	52,52,52,52	0
58	MG	2A	3146	1/1	0.89	0.21	66,66,66,66	0
58	MG	2a	1665	1/1	0.89	0.13	63,63,63,63	0
58	MG	1A	3254	1/1	0.89	0.16	62,62,62,62	0
58	MG	1A	3480	1/1	0.89	0.13	51,51,51,51	0
58	MG	2A	3374	1/1	0.89	0.11	59,59,59,59	0
58	MG	1A	3866	1/1	0.89	0.14	52,52,52,52	0
58	MG	1A	3870	1/1	0.89	0.08	38,38,38,38	0
58	MG	1A	3306	1/1	0.89	0.10	52,52,52,52	0
58	MG	2A	3689	1/1	0.89	0.17	63,63,63,63	0
58	MG	1A	3496	1/1	0.89	0.12	53,53,53,53	0
58	MG	1A	3651	1/1	0.89	0.13	55,55,55,55	0
58	MG	1B	235	1/1	0.89	0.11	61,61,61,61	0
58	MG	1a	1754	1/1	0.89	0.12	76,76,76,76	0
58	MG	1E	302	1/1	0.89	0.14	36,36,36,36	0
58	MG	2A	3707	1/1	0.89	0.14	65,65,65,65	0
58	MG	2A	3716	1/1	0.89	0.12	60,60,60,60	0
58	MG	1A	3888	1/1	0.89	0.10	23,23,23,23	0
58	MG	1A	3321	1/1	0.89	0.13	47,47,47,47	0
58	MG	1A	3394	1/1	0.89	0.18	75,75,75,75	0
58	MG	1a	1773	1/1	0.89	0.10	37,37,37,37	0
58	MG	1A	3518	1/1	0.89	0.09	82,82,82,82	0
58	MG	2A	3423	1/1	0.89	0.23	52,52,52,52	0
58	MG	2A	3425	1/1	0.89	0.18	58,58,58,58	0
58	MG	1G	205	1/1	0.89	0.19	69,69,69,69	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3433	1/1	0.89	0.21	56,56,56,56	0
58	MG	1a	1793	1/1	0.89	0.10	60,60,60,60	0
58	MG	1a	1795	1/1	0.89	0.24	69,69,69,69	0
58	MG	2A	3441	1/1	0.89	0.22	51,51,51,51	0
58	MG	2A	3216	1/1	0.89	0.29	73,73,73,73	0
58	MG	2A	3224	1/1	0.89	0.18	57,57,57,57	0
58	MG	1A	3905	1/1	0.89	0.09	51,51,51,51	0
58	MG	2a	1760	1/1	0.89	0.19	73,73,73,73	0
58	MG	2A	3470	1/1	0.89	0.11	53,53,53,53	0
58	MG	2A	3236	1/1	0.89	0.18	67,67,67,67	0
58	MG	2a	1772	1/1	0.89	0.09	85,85,85,85	0
58	MG	2a	1776	1/1	0.89	0.12	70,70,70,70	0
58	MG	1A	3405	1/1	0.89	0.18	43,43,43,43	0
58	MG	1A	3414	1/1	0.89	0.10	57,57,57,57	0
58	MG	1A	3934	1/1	0.89	0.14	51,51,51,51	0
58	MG	1t	201	1/1	0.89	0.18	57,57,57,57	0
58	MG	2A	3501	1/1	0.89	0.11	46,46,46,46	0
58	MG	2A	3260	1/1	0.89	0.16	56,56,56,56	0
58	MG	1A	3429	1/1	0.89	0.12	46,46,46,46	0
58	MG	1A	3539	1/1	0.89	0.12	59,59,59,59	0
58	MG	2A	3827	1/1	0.89	0.12	68,68,68,68	0
58	MG	1A	3783	1/1	0.89	0.14	54,54,54,54	0
58	MG	2A	3837	1/1	0.89	0.09	51,51,51,51	0
58	MG	2A	3841	1/1	0.89	0.12	54,54,54,54	0
58	MG	1a	1601	1/1	0.89	0.13	61,61,61,61	0
58	MG	1A	3785	1/1	0.89	0.10	62,62,62,62	0
58	MG	1a	1618	1/1	0.89	0.23	55,55,55,55	0
58	MG	2A	3853	1/1	0.89	0.11	51,51,51,51	0
58	MG	2A	3856	1/1	0.89	0.14	73,73,73,73	0
58	MG	1A	3958	1/1	0.89	0.08	23,23,23,23	0
58	MG	2A	3290	1/1	0.89	0.14	55,55,55,55	0
58	MG	1A	3202	1/1	0.89	0.09	47,47,47,47	0
58	MG	1A	3985	1/1	0.89	0.07	24,24,24,24	0
58	MG	2A	3563	1/1	0.89	0.09	40,40,40,40	0
58	MG	1a	1635	1/1	0.89	0.10	50,50,50,50	0
58	MG	1A	3798	1/1	0.89	0.09	20,20,20,20	0
58	MG	1a	1637	1/1	0.89	0.23	55,55,55,55	0
58	MG	2A	3574	1/1	0.89	0.16	60,60,60,60	0
58	MG	2A	3055	1/1	0.89	0.09	63,63,63,63	0
58	MG	2A	3058	1/1	0.89	0.21	58,58,58,58	0
58	MG	2v	101	1/1	0.89	0.13	63,63,63,63	0
58	MG	2v	102	1/1	0.89	0.18	58,58,58,58	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2v	103	1/1	0.89	0.48	72,72,72,72	0
58	MG	2v	104	1/1	0.89	0.17	67,67,67,67	0
58	MG	2A	3309	1/1	0.89	0.26	56,56,56,56	0
58	MG	2A	3063	1/1	0.89	0.10	46,46,46,46	0
58	MG	1A	3799	1/1	0.89	0.10	39,39,39,39	0
58	MG	2A	3598	1/1	0.89	0.15	57,57,57,57	0
58	MG	2A	3321	1/1	0.89	0.21	61,61,61,61	0
58	MG	2A	3066	1/1	0.89	0.15	52,52,52,52	0
58	MG	1A	3592	1/1	0.90	0.20	63,63,63,63	0
58	MG	1A	3059	1/1	0.90	0.10	36,36,36,36	0
58	MG	1a	1608	1/1	0.90	0.23	64,64,64,64	0
58	MG	1A	3369	1/1	0.90	0.24	53,53,53,53	0
58	MG	2A	3042	1/1	0.90	0.24	61,61,61,61	0
58	MG	2E	303	1/1	0.90	0.08	47,47,47,47	0
58	MG	1A	3971	1/1	0.90	0.11	58,58,58,58	0
58	MG	2A	3046	1/1	0.90	0.14	59,59,59,59	0
58	MG	2O	201	1/1	0.90	0.17	71,71,71,71	0
58	MG	2A	3580	1/1	0.90	0.12	49,49,49,49	0
58	MG	1A	3974	1/1	0.90	0.11	71,71,71,71	0
58	MG	2A	3301	1/1	0.90	0.14	60,60,60,60	0
58	MG	1A	3212	1/1	0.90	0.07	50,50,50,50	0
58	MG	2A	3303	1/1	0.90	0.08	63,63,63,63	0
58	MG	1A	3811	1/1	0.90	0.09	36,36,36,36	0
58	MG	1A	3995	1/1	0.90	0.09	25,25,25,25	0
58	MG	2A	3310	1/1	0.90	0.11	58,58,58,58	0
58	MG	1A	3815	1/1	0.90	0.18	58,58,58,58	0
58	MG	1a	1639	1/1	0.90	0.17	53,53,53,53	0
58	MG	2a	1611	1/1	0.90	0.18	66,66,66,66	0
58	MG	2A	3320	1/1	0.90	0.15	69,69,69,69	0
58	MG	2a	1616	1/1	0.90	0.12	65,65,65,65	0
58	MG	2a	1618	1/1	0.90	0.11	52,52,52,52	0
58	MG	1A	4020	1/1	0.90	0.11	53,53,53,53	0
58	MG	1a	1659	1/1	0.90	0.13	65,65,65,65	0
58	MG	1A	4027	1/1	0.90	0.11	46,46,46,46	0
58	MG	2A	3083	1/1	0.90	0.15	65,65,65,65	0
58	MG	2a	1625	1/1	0.90	0.12	64,64,64,64	0
58	MG	2A	3641	1/1	0.90	0.09	42,42,42,42	0
58	MG	1A	4030	1/1	0.90	0.10	63,63,63,63	0
58	MG	2a	1631	1/1	0.90	0.25	64,64,64,64	0
58	MG	2a	1632	1/1	0.90	0.08	74,74,74,74	0
58	MG	1a	1672	1/1	0.90	0.16	59,59,59,59	0
58	MG	1A	4034	1/1	0.90	0.13	50,50,50,50	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3375	1/1	0.90	0.11	39,39,39,39	0
58	MG	2a	1639	1/1	0.90	0.14	55,55,55,55	0
58	MG	1a	1681	1/1	0.90	0.12	48,48,48,48	0
58	MG	1A	3820	1/1	0.90	0.09	42,42,42,42	0
58	MG	2A	3344	1/1	0.90	0.18	72,72,72,72	0
58	MG	2a	1649	1/1	0.90	0.09	73,73,73,73	0
58	MG	1A	3380	1/1	0.90	0.10	45,45,45,45	0
58	MG	2A	3666	1/1	0.90	0.12	51,51,51,51	0
58	MG	1A	4068	1/1	0.90	0.08	44,44,44,44	0
58	MG	1A	3259	1/1	0.90	0.21	72,72,72,72	0
58	MG	2a	1658	1/1	0.90	0.10	62,62,62,62	0
58	MG	1A	3638	1/1	0.90	0.09	45,45,45,45	0
58	MG	2A	3114	1/1	0.90	0.20	63,63,63,63	0
58	MG	2a	1666	1/1	0.90	0.16	69,69,69,69	0
58	MG	1A	3292	1/1	0.90	0.23	56,56,56,56	0
58	MG	2A	3675	1/1	0.90	0.19	67,67,67,67	0
58	MG	2a	1680	1/1	0.90	0.26	59,59,59,59	0
58	MG	1A	3481	1/1	0.90	0.11	42,42,42,42	0
58	MG	2A	3363	1/1	0.90	0.24	63,63,63,63	0
58	MG	1A	3332	1/1	0.90	0.31	68,68,68,68	0
58	MG	2a	1687	1/1	0.90	0.19	67,67,67,67	0
58	MG	2A	3680	1/1	0.90	0.12	51,51,51,51	0
58	MG	2A	3684	1/1	0.90	0.09	57,57,57,57	0
58	MG	2A	3128	1/1	0.90	0.16	51,51,51,51	0
58	MG	2A	3368	1/1	0.90	0.19	61,61,61,61	0
58	MG	1A	3391	1/1	0.90	0.10	64,64,64,64	0
58	MG	2A	3371	1/1	0.90	0.24	63,63,63,63	0
58	MG	2A	3696	1/1	0.90	0.14	48,48,48,48	0
58	MG	2a	1711	1/1	0.90	0.08	71,71,71,71	0
58	MG	2A	3140	1/1	0.90	0.28	65,65,65,65	0
58	MG	1a	1718	1/1	0.90	0.30	66,66,66,66	0
58	MG	2a	1716	1/1	0.90	0.13	64,64,64,64	0
58	MG	1A	3661	1/1	0.90	0.07	25,25,25,25	0
58	MG	1A	3868	1/1	0.90	0.14	42,42,42,42	0
58	MG	2a	1724	1/1	0.90	0.14	76,76,76,76	0
58	MG	1B	208	1/1	0.90	0.11	63,63,63,63	0
58	MG	2A	3710	1/1	0.90	0.13	61,61,61,61	0
58	MG	2a	1731	1/1	0.90	0.24	47,47,47,47	0
58	MG	1B	210	1/1	0.90	0.10	50,50,50,50	0
58	MG	2A	3719	1/1	0.90	0.16	67,67,67,67	0
58	MG	2A	3386	1/1	0.90	0.09	52,52,52,52	0
58	MG	2A	3168	1/1	0.90	0.13	61,61,61,61	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1740	1/1	0.90	0.23	52,52,52,52	0
58	MG	2A	3726	1/1	0.90	0.10	49,49,49,49	0
58	MG	1A	3680	1/1	0.90	0.08	43,43,43,43	0
58	MG	2a	1749	1/1	0.90	0.13	71,71,71,71	0
58	MG	1A	3877	1/1	0.90	0.14	28,28,28,28	0
58	MG	1A	3023	1/1	0.90	0.26	51,51,51,51	0
58	MG	2A	3179	1/1	0.90	0.16	68,68,68,68	0
58	MG	2A	3401	1/1	0.90	0.29	58,58,58,58	0
58	MG	1B	225	1/1	0.90	0.09	57,57,57,57	0
58	MG	2A	3187	1/1	0.90	0.19	60,60,60,60	0
58	MG	2A	3190	1/1	0.90	0.33	69,69,69,69	0
58	MG	1A	3403	1/1	0.90	0.14	52,52,52,52	0
58	MG	2A	3745	1/1	0.90	0.23	64,64,64,64	0
58	MG	1A	3692	1/1	0.90	0.08	13,13,13,13	0
58	MG	1A	3404	1/1	0.90	0.13	51,51,51,51	0
58	MG	1A	3715	1/1	0.90	0.16	64,64,64,64	0
58	MG	1D	312	1/1	0.90	0.16	40,40,40,40	0
58	MG	1A	3891	1/1	0.90	0.08	29,29,29,29	0
58	MG	1A	3338	1/1	0.90	0.11	42,42,42,42	0
58	MG	2a	1790	1/1	0.90	0.11	59,59,59,59	0
58	MG	2a	1792	1/1	0.90	0.13	62,62,62,62	0
58	MG	1A	3894	1/1	0.90	0.08	37,37,37,37	0
58	MG	2a	1795	1/1	0.90	0.22	63,63,63,63	0
58	MG	1a	1788	1/1	0.90	0.10	70,70,70,70	0
58	MG	2A	3779	1/1	0.90	0.15	64,64,64,64	0
58	MG	2A	3447	1/1	0.90	0.16	65,65,65,65	0
58	MG	1a	1791	1/1	0.90	0.09	75,75,75,75	0
58	MG	2A	3454	1/1	0.90	0.10	65,65,65,65	0
58	MG	2A	3801	1/1	0.90	0.09	80,80,80,80	0
58	MG	1A	3407	1/1	0.90	0.15	46,46,46,46	0
58	MG	2A	3469	1/1	0.90	0.24	65,65,65,65	0
58	MG	2A	3812	1/1	0.90	0.09	53,53,53,53	0
58	MG	2A	3218	1/1	0.90	0.24	59,59,59,59	0
58	MG	2A	3826	1/1	0.90	0.22	69,69,69,69	0
58	MG	1A	3757	1/1	0.90	0.12	58,58,58,58	0
58	MG	1A	3348	1/1	0.90	0.14	50,50,50,50	0
58	MG	1A	3418	1/1	0.90	0.14	65,65,65,65	0
58	MG	2A	3484	1/1	0.90	0.14	66,66,66,66	0
58	MG	2A	3845	1/1	0.90	0.10	67,67,67,67	0
58	MG	2e	201	1/1	0.90	0.09	73,73,73,73	0
58	MG	1A	3927	1/1	0.90	0.15	47,47,47,47	0
58	MG	2A	3848	1/1	0.90	0.15	64,64,64,64	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3238	1/1	0.90	0.14	64,64,64,64	0
58	MG	2A	3241	1/1	0.90	0.10	48,48,48,48	0
58	MG	1A	3299	1/1	0.90	0.07	26,26,26,26	0
58	MG	1d	301	1/1	0.90	0.34	62,62,62,62	0
58	MG	2A	3253	1/1	0.90	0.21	73,73,73,73	0
58	MG	2A	3254	1/1	0.90	0.11	62,62,62,62	0
58	MG	1A	3939	1/1	0.90	0.10	26,26,26,26	0
58	MG	1Y	203	1/1	0.90	0.31	49,49,49,49	0
58	MG	1A	3544	1/1	0.90	0.08	62,62,62,62	0
58	MG	1A	3357	1/1	0.90	0.08	55,55,55,55	0
58	MG	1A	3448	1/1	0.90	0.13	61,61,61,61	0
58	MG	2A	3542	1/1	0.90	0.12	38,38,38,38	0
58	MG	1x	104	1/1	0.90	0.23	57,57,57,57	0
58	MG	14	101	1/1	0.90	0.17	69,69,69,69	0
58	MG	2B	209	1/1	0.91	0.10	67,67,67,67	0
58	MG	2A	3007	1/1	0.91	0.21	63,63,63,63	0
58	MG	1A	3393	1/1	0.91	0.25	69,69,69,69	0
58	MG	1A	3760	1/1	0.91	0.08	16,16,16,16	0
58	MG	1A	3887	1/1	0.91	0.07	39,39,39,39	0
58	MG	2B	219	1/1	0.91	0.19	77,77,77,77	0
58	MG	2A	3551	1/1	0.91	0.16	40,40,40,40	0
58	MG	2A	3035	1/1	0.91	0.06	31,31,31,31	0
58	MG	2A	3036	1/1	0.91	0.15	53,53,53,53	0
58	MG	2A	3287	1/1	0.91	0.09	56,56,56,56	0
58	MG	2E	307	1/1	0.91	0.18	63,63,63,63	0
58	MG	2F	303	1/1	0.91	0.07	40,40,40,40	0
58	MG	2F	304	1/1	0.91	0.13	66,66,66,66	0
58	MG	2A	3038	1/1	0.91	0.13	35,35,35,35	0
58	MG	2A	3568	1/1	0.91	0.09	47,47,47,47	0
58	MG	2A	3571	1/1	0.91	0.09	45,45,45,45	0
58	MG	2A	3039	1/1	0.91	0.21	58,58,58,58	0
58	MG	1A	3768	1/1	0.91	0.09	27,27,27,27	0
58	MG	2R	202	1/1	0.91	0.14	62,62,62,62	0
58	MG	2T	3501	1/1	0.91	0.24	65,65,65,65	0
58	MG	2W	201	1/1	0.91	0.18	60,60,60,60	0
58	MG	1A	3051	1/1	0.91	0.11	34,34,34,34	0
58	MG	2A	3045	1/1	0.91	0.08	75,75,75,75	0
58	MG	1a	1646	1/1	0.91	0.15	68,68,68,68	0
58	MG	27	103	1/1	0.91	0.08	44,44,44,44	0
58	MG	2A	3047	1/1	0.91	0.17	72,72,72,72	0
58	MG	1a	1651	1/1	0.91	0.12	46,46,46,46	0
58	MG	2a	1602	1/1	0.91	0.23	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1606	1/1	0.91	0.22	67,67,67,67	0
58	MG	1a	1656	1/1	0.91	0.13	62,62,62,62	0
58	MG	1A	3401	1/1	0.91	0.12	47,47,47,47	0
58	MG	2A	3596	1/1	0.91	0.10	58,58,58,58	0
58	MG	1a	1661	1/1	0.91	0.17	56,56,56,56	0
58	MG	2A	3599	1/1	0.91	0.12	60,60,60,60	0
58	MG	2A	3307	1/1	0.91	0.16	65,65,65,65	0
58	MG	2A	3308	1/1	0.91	0.13	57,57,57,57	0
58	MG	1A	3892	1/1	0.91	0.12	22,22,22,22	0
58	MG	1A	3288	1/1	0.91	0.12	57,57,57,57	0
58	MG	1A	3370	1/1	0.91	0.09	42,42,42,42	0
58	MG	2A	3316	1/1	0.91	0.09	49,49,49,49	0
58	MG	1a	1676	1/1	0.91	0.13	55,55,55,55	0
58	MG	2A	3624	1/1	0.91	0.11	55,55,55,55	0
58	MG	2a	1628	1/1	0.91	0.10	62,62,62,62	0
58	MG	2A	3632	1/1	0.91	0.13	54,54,54,54	0
58	MG	2A	3319	1/1	0.91	0.10	62,62,62,62	0
58	MG	1A	3477	1/1	0.91	0.11	42,42,42,42	0
58	MG	1A	3151	1/1	0.91	0.21	29,29,29,29	0
58	MG	1A	3052	1/1	0.91	0.09	46,46,46,46	0
58	MG	1A	3002	1/1	0.91	0.07	47,47,47,47	0
58	MG	1B	224	1/1	0.91	0.10	50,50,50,50	0
58	MG	1A	3488	1/1	0.91	0.10	40,40,40,40	0
58	MG	2A	3651	1/1	0.91	0.16	66,66,66,66	0
58	MG	2A	3331	1/1	0.91	0.12	59,59,59,59	0
58	MG	2a	1647	1/1	0.91	0.14	61,61,61,61	0
58	MG	1a	1688	1/1	0.91	0.14	51,51,51,51	0
58	MG	1A	3344	1/1	0.91	0.08	38,38,38,38	0
58	MG	2A	3660	1/1	0.91	0.09	66,66,66,66	0
58	MG	2A	3100	1/1	0.91	0.24	44,44,44,44	0
58	MG	2a	1656	1/1	0.91	0.14	85,85,85,85	0
58	MG	2A	3663	1/1	0.91	0.18	56,56,56,56	0
58	MG	2A	3102	1/1	0.91	0.25	67,67,67,67	0
58	MG	2a	1659	1/1	0.91	0.19	60,60,60,60	0
58	MG	2a	1660	1/1	0.91	0.20	78,78,78,78	0
58	MG	1A	3420	1/1	0.91	0.08	40,40,40,40	0
58	MG	1A	3945	1/1	0.91	0.11	58,58,58,58	0
58	MG	2A	3107	1/1	0.91	0.17	55,55,55,55	0
58	MG	2a	1672	1/1	0.91	0.11	56,56,56,56	0
58	MG	2A	3349	1/1	0.91	0.21	61,61,61,61	0
58	MG	1a	1696	1/1	0.91	0.27	59,59,59,59	0
58	MG	2a	1679	1/1	0.91	0.20	60,60,60,60	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3650	1/1	0.91	0.09	60,60,60,60	0
58	MG	2A	3673	1/1	0.91	0.08	64,64,64,64	0
58	MG	2A	3356	1/1	0.91	0.30	48,48,48,48	0
58	MG	1A	3506	1/1	0.91	0.14	57,57,57,57	0
58	MG	1a	1705	1/1	0.91	0.24	63,63,63,63	0
58	MG	2A	3124	1/1	0.91	0.26	66,66,66,66	0
58	MG	1a	1706	1/1	0.91	0.24	55,55,55,55	0
58	MG	1A	3653	1/1	0.91	0.09	40,40,40,40	0
58	MG	2A	3685	1/1	0.91	0.19	65,65,65,65	0
58	MG	1a	1717	1/1	0.91	0.09	60,60,60,60	0
58	MG	1E	307	1/1	0.91	0.30	59,59,59,59	0
58	MG	1A	3427	1/1	0.91	0.08	56,56,56,56	0
58	MG	1A	3428	1/1	0.91	0.07	53,53,53,53	0
58	MG	2a	1713	1/1	0.91	0.13	55,55,55,55	0
58	MG	2A	3692	1/1	0.91	0.09	67,67,67,67	0
58	MG	1A	3837	1/1	0.91	0.10	52,52,52,52	0
58	MG	1F	313	1/1	0.91	0.15	50,50,50,50	0
58	MG	1A	3838	1/1	0.91	0.17	61,61,61,61	0
58	MG	2a	1718	1/1	0.91	0.13	74,74,74,74	0
58	MG	1A	3061	1/1	0.91	0.21	43,43,43,43	0
58	MG	2A	3377	1/1	0.91	0.15	58,58,58,58	0
58	MG	1A	3977	1/1	0.91	0.08	67,67,67,67	0
58	MG	1A	3978	1/1	0.91	0.09	57,57,57,57	0
58	MG	2a	1729	1/1	0.91	0.17	61,61,61,61	0
58	MG	1S	201	1/1	0.91	0.25	41,41,41,41	0
58	MG	1A	3312	1/1	0.91	0.06	34,34,34,34	0
58	MG	2A	3178	1/1	0.91	0.11	44,44,44,44	0
58	MG	1a	1757	1/1	0.91	0.18	51,51,51,51	0
58	MG	1W	201	1/1	0.91	0.15	49,49,49,49	0
58	MG	1A	3440	1/1	0.91	0.18	46,46,46,46	0
58	MG	2A	3394	1/1	0.91	0.09	60,60,60,60	0
58	MG	1Y	202	1/1	0.91	0.15	66,66,66,66	0
58	MG	2A	3732	1/1	0.91	0.10	58,58,58,58	0
58	MG	1a	1772	1/1	0.91	0.10	66,66,66,66	0
58	MG	2A	3734	1/1	0.91	0.12	53,53,53,53	0
58	MG	2A	3735	1/1	0.91	0.12	54,54,54,54	0
58	MG	1A	3446	1/1	0.91	0.12	52,52,52,52	0
58	MG	2A	3407	1/1	0.91	0.15	41,41,41,41	0
58	MG	1A	4016	1/1	0.91	0.10	58,58,58,58	0
58	MG	2A	3417	1/1	0.91	0.19	49,49,49,49	0
58	MG	1A	3855	1/1	0.91	0.12	55,55,55,55	0
58	MG	2a	1768	1/1	0.91	0.08	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3420	1/1	0.91	0.25	64,64,64,64	0
58	MG	1A	3860	1/1	0.91	0.41	40,40,40,40	0
58	MG	2a	1778	1/1	0.91	0.11	52,52,52,52	0
58	MG	13	101	1/1	0.91	0.12	54,54,54,54	0
58	MG	2A	3756	1/1	0.91	0.10	63,63,63,63	0
58	MG	2A	3200	1/1	0.91	0.10	47,47,47,47	0
58	MG	2A	3428	1/1	0.91	0.20	62,62,62,62	0
58	MG	2A	3431	1/1	0.91	0.20	57,57,57,57	0
58	MG	2A	3204	1/1	0.91	0.12	58,58,58,58	0
58	MG	13	103	1/1	0.91	0.10	44,44,44,44	0
58	MG	1A	3862	1/1	0.91	0.11	52,52,52,52	0
58	MG	1A	3095	1/1	0.91	0.09	66,66,66,66	0
58	MG	1A	3728	1/1	0.91	0.16	56,56,56,56	0
58	MG	2A	3214	1/1	0.91	0.09	64,64,64,64	0
58	MG	2A	3786	1/1	0.91	0.10	55,55,55,55	0
58	MG	1a	1603	1/1	0.91	0.15	64,64,64,64	0
58	MG	2A	3794	1/1	0.91	0.21	67,67,67,67	0
58	MG	1a	1607	1/1	0.91	0.14	56,56,56,56	0
58	MG	2a	1811	1/1	0.91	0.07	70,70,70,70	0
58	MG	2A	3802	1/1	0.91	0.11	52,52,52,52	0
58	MG	1A	3743	1/1	0.91	0.09	19,19,19,19	0
58	MG	2A	3225	1/1	0.91	0.23	55,55,55,55	0
58	MG	2A	3460	1/1	0.91	0.10	71,71,71,71	0
58	MG	2A	3465	1/1	0.91	0.18	59,59,59,59	0
58	MG	2a	1819	1/1	0.91	0.17	55,55,55,55	0
58	MG	1a	1611	1/1	0.91	0.21	63,63,63,63	0
58	MG	1a	1613	1/1	0.91	0.13	61,61,61,61	0
58	MG	2A	3830	1/1	0.91	0.09	49,49,49,49	0
58	MG	1w	102	1/1	0.91	0.09	67,67,67,67	0
58	MG	2A	3481	1/1	0.91	0.23	54,54,54,54	0
58	MG	2A	3840	1/1	0.91	0.08	66,66,66,66	0
58	MG	2g	201	1/1	0.91	0.06	71,71,71,71	0
58	MG	2i	201	1/1	0.91	0.14	71,71,71,71	0
58	MG	1a	1615	1/1	0.91	0.11	60,60,60,60	0
58	MG	1a	1616	1/1	0.91	0.13	66,66,66,66	0
58	MG	1A	3456	1/1	0.91	0.07	45,45,45,45	0
58	MG	2A	3244	1/1	0.91	0.13	60,60,60,60	0
58	MG	2l	203	1/1	0.91	0.09	62,62,62,62	0
58	MG	1A	3751	1/1	0.91	0.11	35,35,35,35	0
58	MG	2A	3248	1/1	0.91	0.08	53,53,53,53	0
58	MG	2A	3250	1/1	0.91	0.10	50,50,50,50	0
58	MG	2A	3505	1/1	0.91	0.14	69,69,69,69	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	4067	1/1	0.91	0.12	55,55,55,55	0
58	MG	1x	106	1/1	0.91	0.20	56,56,56,56	0
58	MG	1A	3392	1/1	0.91	0.17	51,51,51,51	0
58	MG	2A	3513	1/1	0.91	0.14	56,56,56,56	0
58	MG	2A	3514	1/1	0.91	0.11	46,46,46,46	0
58	MG	2A	3519	1/1	0.91	0.13	51,51,51,51	0
58	MG	2A	3258	1/1	0.91	0.15	57,57,57,57	0
58	MG	2A	3005	1/1	0.91	0.24	58,58,58,58	0
58	MG	2F	302	1/1	0.92	0.08	58,58,58,58	0
58	MG	1A	4056	1/1	0.92	0.12	46,46,46,46	0
58	MG	1A	3331	1/1	0.92	0.09	41,41,41,41	0
58	MG	1A	3450	1/1	0.92	0.10	56,56,56,56	0
58	MG	1a	1658	1/1	0.92	0.24	65,65,65,65	0
58	MG	2A	3314	1/1	0.92	0.07	49,49,49,49	0
58	MG	2A	3586	1/1	0.92	0.14	52,52,52,52	0
58	MG	2A	3588	1/1	0.92	0.08	47,47,47,47	0
58	MG	2A	3589	1/1	0.92	0.10	64,64,64,64	0
58	MG	1A	3714	1/1	0.92	0.07	63,63,63,63	0
58	MG	2U	201	1/1	0.92	0.28	50,50,50,50	0
58	MG	1A	4071	1/1	0.92	0.10	44,44,44,44	0
58	MG	1A	3266	1/1	0.92	0.28	52,52,52,52	0
58	MG	1a	1667	1/1	0.92	0.14	48,48,48,48	0
58	MG	1A	3867	1/1	0.92	0.07	39,39,39,39	0
58	MG	25	105	1/1	0.92	0.09	48,48,48,48	0
58	MG	2A	3322	1/1	0.92	0.23	55,55,55,55	0
58	MG	2A	3081	1/1	0.92	0.26	55,55,55,55	0
58	MG	1A	3720	1/1	0.92	0.22	58,58,58,58	0
58	MG	1A	3180	1/1	0.92	0.16	52,52,52,52	0
58	MG	2a	1603	1/1	0.92	0.08	68,68,68,68	0
58	MG	2A	3328	1/1	0.92	0.10	57,57,57,57	0
58	MG	1A	3546	1/1	0.92	0.38	40,40,40,40	0
58	MG	1A	3555	1/1	0.92	0.21	49,49,49,49	0
58	MG	2a	1609	1/1	0.92	0.17	73,73,73,73	0
58	MG	2A	3625	1/1	0.92	0.19	62,62,62,62	0
58	MG	1A	3569	1/1	0.92	0.14	48,48,48,48	0
58	MG	2A	3333	1/1	0.92	0.12	55,55,55,55	0
58	MG	1A	4097	1/1	0.92	0.17	47,47,47,47	0
58	MG	1A	3283	1/1	0.92	0.25	45,45,45,45	0
58	MG	2A	3638	1/1	0.92	0.12	57,57,57,57	0
58	MG	1A	3460	1/1	0.92	0.12	59,59,59,59	0
58	MG	1A	3758	1/1	0.92	0.14	47,47,47,47	0
58	MG	2A	3643	1/1	0.92	0.14	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3185	1/1	0.92	0.07	37,37,37,37	0
58	MG	2A	3345	1/1	0.92	0.11	53,53,53,53	0
58	MG	2A	3347	1/1	0.92	0.14	61,61,61,61	0
58	MG	2A	3652	1/1	0.92	0.10	75,75,75,75	0
58	MG	1a	1693	1/1	0.92	0.21	55,55,55,55	0
58	MG	1A	3593	1/1	0.92	0.17	48,48,48,48	0
58	MG	1A	3769	1/1	0.92	0.11	36,36,36,36	0
58	MG	2A	3353	1/1	0.92	0.11	61,61,61,61	0
58	MG	1B	223	1/1	0.92	0.16	51,51,51,51	0
58	MG	1A	3114	1/1	0.92	0.06	37,37,37,37	0
58	MG	2a	1640	1/1	0.92	0.15	76,76,76,76	0
58	MG	1a	1699	1/1	0.92	0.10	58,58,58,58	0
58	MG	1A	3776	1/1	0.92	0.08	33,33,33,33	0
58	MG	1A	3895	1/1	0.92	0.17	37,37,37,37	0
58	MG	2A	3361	1/1	0.92	0.14	63,63,63,63	0
58	MG	1A	3777	1/1	0.92	0.07	60,60,60,60	0
58	MG	1a	1713	1/1	0.92	0.23	64,64,64,64	0
58	MG	2A	3129	1/1	0.92	0.10	67,67,67,67	0
58	MG	2A	3132	1/1	0.92	0.08	55,55,55,55	0
58	MG	1B	231	1/1	0.92	0.08	61,61,61,61	0
58	MG	1A	3596	1/1	0.92	0.17	55,55,55,55	0
58	MG	2A	3142	1/1	0.92	0.13	52,52,52,52	0
58	MG	1A	3907	1/1	0.92	0.07	46,46,46,46	0
58	MG	1a	1726	1/1	0.92	0.09	44,44,44,44	0
58	MG	2A	3683	1/1	0.92	0.09	67,67,67,67	0
58	MG	2A	3375	1/1	0.92	0.21	66,66,66,66	0
58	MG	1A	3129	1/1	0.92	0.07	56,56,56,56	0
58	MG	1A	3354	1/1	0.92	0.16	53,53,53,53	0
58	MG	1A	3475	1/1	0.92	0.13	42,42,42,42	0
58	MG	1A	3355	1/1	0.92	0.10	63,63,63,63	0
58	MG	2a	1678	1/1	0.92	0.17	62,62,62,62	0
58	MG	2A	3170	1/1	0.92	0.12	59,59,59,59	0
58	MG	2A	3691	1/1	0.92	0.07	66,66,66,66	0
58	MG	1A	3479	1/1	0.92	0.29	54,54,54,54	0
58	MG	1A	3940	1/1	0.92	0.09	22,22,22,22	0
58	MG	1a	1742	1/1	0.92	0.09	70,70,70,70	0
58	MG	2A	3702	1/1	0.92	0.11	45,45,45,45	0
58	MG	2a	1693	1/1	0.92	0.20	70,70,70,70	0
58	MG	2a	1698	1/1	0.92	0.30	58,58,58,58	0
58	MG	1A	3942	1/1	0.92	0.14	66,66,66,66	0
58	MG	1A	3072	1/1	0.92	0.06	15,15,15,15	0
58	MG	2A	3393	1/1	0.92	0.12	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3411	1/1	0.92	0.12	47,47,47,47	0
58	MG	2A	3709	1/1	0.92	0.14	51,51,51,51	0
58	MG	1A	3640	1/1	0.92	0.11	57,57,57,57	0
58	MG	1A	3641	1/1	0.92	0.06	22,22,22,22	0
58	MG	2a	1709	1/1	0.92	0.07	73,73,73,73	0
58	MG	2a	1710	1/1	0.92	0.12	75,75,75,75	0
58	MG	1A	3813	1/1	0.92	0.07	45,45,45,45	0
58	MG	1S	202	1/1	0.92	0.12	46,46,46,46	0
58	MG	1a	1762	1/1	0.92	0.12	61,61,61,61	0
58	MG	2A	3725	1/1	0.92	0.16	53,53,53,53	0
58	MG	2A	3415	1/1	0.92	0.17	63,63,63,63	0
58	MG	2A	3416	1/1	0.92	0.25	59,59,59,59	0
58	MG	2A	3194	1/1	0.92	0.11	55,55,55,55	0
58	MG	2a	1719	1/1	0.92	0.18	63,63,63,63	0
58	MG	1a	1767	1/1	0.92	0.10	55,55,55,55	0
58	MG	2a	1722	1/1	0.92	0.18	64,64,64,64	0
58	MG	2a	1723	1/1	0.92	0.16	64,64,64,64	0
58	MG	2A	3196	1/1	0.92	0.23	65,65,65,65	0
58	MG	1A	3814	1/1	0.92	0.18	48,48,48,48	0
58	MG	1A	3305	1/1	0.92	0.22	53,53,53,53	0
58	MG	1A	3964	1/1	0.92	0.10	30,30,30,30	0
58	MG	1A	3087	1/1	0.92	0.22	36,36,36,36	0
58	MG	2A	3429	1/1	0.92	0.14	39,39,39,39	0
58	MG	2A	3430	1/1	0.92	0.27	60,60,60,60	0
58	MG	1A	3310	1/1	0.92	0.08	49,49,49,49	0
58	MG	1a	1780	1/1	0.92	0.12	47,47,47,47	0
58	MG	2a	1738	1/1	0.92	0.08	48,48,48,48	0
58	MG	1A	3045	1/1	0.92	0.09	37,37,37,37	0
58	MG	2a	1741	1/1	0.92	0.18	61,61,61,61	0
58	MG	1A	3313	1/1	0.92	0.09	53,53,53,53	0
58	MG	2a	1743	1/1	0.92	0.09	60,60,60,60	0
58	MG	2A	3435	1/1	0.92	0.22	55,55,55,55	0
58	MG	2a	1747	1/1	0.92	0.09	72,72,72,72	0
58	MG	1a	1792	1/1	0.92	0.14	60,60,60,60	0
58	MG	1A	3980	1/1	0.92	0.09	20,20,20,20	0
58	MG	2a	1751	1/1	0.92	0.24	70,70,70,70	0
58	MG	1A	3376	1/1	0.92	0.09	49,49,49,49	0
58	MG	1A	3676	1/1	0.92	0.12	18,18,18,18	0
58	MG	2A	3765	1/1	0.92	0.14	64,64,64,64	0
58	MG	13	104	1/1	0.92	0.10	28,28,28,28	0
58	MG	2a	1758	1/1	0.92	0.07	65,65,65,65	0
58	MG	1A	3678	1/1	0.92	0.06	21,21,21,21	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	16	101	1/1	0.92	0.20	43,43,43,43	0
58	MG	2A	3778	1/1	0.92	0.09	51,51,51,51	0
58	MG	2a	1767	1/1	0.92	0.10	69,69,69,69	0
58	MG	2A	3459	1/1	0.92	0.11	67,67,67,67	0
58	MG	2A	3780	1/1	0.92	0.10	56,56,56,56	0
58	MG	2a	1773	1/1	0.92	0.20	70,70,70,70	0
58	MG	18	109	1/1	0.92	0.12	49,49,49,49	0
58	MG	2A	3464	1/1	0.92	0.22	51,51,51,51	0
58	MG	2A	3785	1/1	0.92	0.10	46,46,46,46	0
58	MG	1f	201	1/1	0.92	0.14	49,49,49,49	0
58	MG	2A	3467	1/1	0.92	0.16	56,56,56,56	0
58	MG	1n	101	1/1	0.92	0.14	57,57,57,57	0
58	MG	2A	3242	1/1	0.92	0.31	51,51,51,51	0
58	MG	1A	3997	1/1	0.92	0.11	65,65,65,65	0
58	MG	2A	3473	1/1	0.92	0.14	57,57,57,57	0
58	MG	1v	101	1/1	0.92	0.20	75,75,75,75	0
58	MG	2A	3811	1/1	0.92	0.11	51,51,51,51	0
58	MG	2a	1797	1/1	0.92	0.14	69,69,69,69	0
58	MG	1A	3998	1/1	0.92	0.11	72,72,72,72	0
58	MG	2A	3814	1/1	0.92	0.08	60,60,60,60	0
58	MG	1A	4011	1/1	0.92	0.12	56,56,56,56	0
58	MG	1A	3168	1/1	0.92	0.17	57,57,57,57	0
58	MG	1A	4018	1/1	0.92	0.10	61,61,61,61	0
58	MG	2A	3486	1/1	0.92	0.09	59,59,59,59	0
58	MG	2a	1810	1/1	0.92	0.11	64,64,64,64	0
58	MG	1A	3262	1/1	0.92	0.18	59,59,59,59	0
58	MG	1A	3847	1/1	0.92	0.09	46,46,46,46	0
58	MG	1A	4021	1/1	0.92	0.10	45,45,45,45	0
58	MG	2A	3504	1/1	0.92	0.15	58,58,58,58	0
58	MG	1A	3685	1/1	0.92	0.08	42,42,42,42	0
58	MG	2A	3263	1/1	0.92	0.21	59,59,59,59	0
58	MG	1A	3854	1/1	0.92	0.14	66,66,66,66	0
58	MG	2A	3001	1/1	0.92	0.28	53,53,53,53	0
58	MG	2A	3271	1/1	0.92	0.10	61,61,61,61	0
58	MG	1a	1620	1/1	0.92	0.16	52,52,52,52	0
58	MG	1A	3241	1/1	0.92	0.19	50,50,50,50	0
58	MG	2A	3013	1/1	0.92	0.08	49,49,49,49	0
58	MG	2A	3525	1/1	0.92	0.11	68,68,68,68	0
58	MG	1a	1623	1/1	0.92	0.12	47,47,47,47	0
58	MG	1a	1626	1/1	0.92	0.22	64,64,64,64	0
58	MG	2B	202	1/1	0.92	0.07	65,65,65,65	0
58	MG	2A	3534	1/1	0.92	0.09	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1627	1/1	0.92	0.19	52,52,52,52	0
58	MG	1A	4035	1/1	0.92	0.07	50,50,50,50	0
58	MG	1a	1630	1/1	0.92	0.20	60,60,60,60	0
58	MG	2A	3547	1/1	0.92	0.08	37,37,37,37	0
58	MG	1A	4039	1/1	0.92	0.10	27,27,27,27	0
58	MG	1a	1632	1/1	0.92	0.22	63,63,63,63	0
58	MG	2A	3041	1/1	0.92	0.23	55,55,55,55	0
58	MG	2B	217	1/1	0.92	0.10	62,62,62,62	0
58	MG	1A	3856	1/1	0.92	0.08	27,27,27,27	0
58	MG	1A	4045	1/1	0.92	0.08	52,52,52,52	0
58	MG	1A	3859	1/1	0.92	0.11	62,62,62,62	0
58	MG	1A	4049	1/1	0.92	0.14	57,57,57,57	0
58	MG	1A	4051	1/1	0.92	0.09	58,58,58,58	0
58	MG	2A	3306	1/1	0.92	0.10	51,51,51,51	0
58	MG	2A	3048	1/1	0.92	0.08	46,46,46,46	0
58	MG	1A	3198	1/1	0.93	0.10	32,32,32,32	0
58	MG	2A	3549	1/1	0.93	0.10	44,44,44,44	0
58	MG	2E	302	1/1	0.93	0.13	58,58,58,58	0
58	MG	1a	1647	1/1	0.93	0.25	54,54,54,54	0
58	MG	2A	3552	1/1	0.93	0.09	41,41,41,41	0
58	MG	2A	3296	1/1	0.93	0.13	56,56,56,56	0
58	MG	1A	4096	1/1	0.93	0.20	56,56,56,56	0
58	MG	2A	3298	1/1	0.93	0.14	51,51,51,51	0
58	MG	1a	1653	1/1	0.93	0.07	46,46,46,46	0
58	MG	1a	1655	1/1	0.93	0.11	60,60,60,60	0
58	MG	2A	3570	1/1	0.93	0.06	41,41,41,41	0
58	MG	2O	202	1/1	0.93	0.10	55,55,55,55	0
58	MG	2P	201	1/1	0.93	0.10	50,50,50,50	0
58	MG	1A	3803	1/1	0.93	0.10	64,64,64,64	0
58	MG	1A	3909	1/1	0.93	0.20	39,39,39,39	0
58	MG	1B	205	1/1	0.93	0.21	61,61,61,61	0
58	MG	1A	3808	1/1	0.93	0.35	28,28,28,28	0
58	MG	1A	3918	1/1	0.93	0.07	58,58,58,58	0
58	MG	2U	202	1/1	0.93	0.09	60,60,60,60	0
58	MG	1A	3300	1/1	0.93	0.11	37,37,37,37	0
58	MG	2Z	301	1/1	0.93	0.13	78,78,78,78	0
58	MG	2A	3054	1/1	0.93	0.27	60,60,60,60	0
58	MG	1a	1668	1/1	0.93	0.15	51,51,51,51	0
58	MG	2A	3057	1/1	0.93	0.16	72,72,72,72	0
58	MG	25	101	1/1	0.93	0.25	62,62,62,62	0
58	MG	1B	212	1/1	0.93	0.17	64,64,64,64	0
58	MG	2A	3315	1/1	0.93	0.18	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3060	1/1	0.93	0.15	55,55,55,55	0
58	MG	1A	3537	1/1	0.93	0.15	52,52,52,52	0
58	MG	1a	1674	1/1	0.93	0.17	56,56,56,56	0
58	MG	1A	3656	1/1	0.93	0.10	39,39,39,39	0
58	MG	1A	3812	1/1	0.93	0.10	42,42,42,42	0
58	MG	2A	3073	1/1	0.93	0.08	43,43,43,43	0
58	MG	2A	3323	1/1	0.93	0.15	57,57,57,57	0
58	MG	2A	3603	1/1	0.93	0.09	57,57,57,57	0
58	MG	2A	3604	1/1	0.93	0.15	60,60,60,60	0
58	MG	1a	1679	1/1	0.93	0.14	59,59,59,59	0
58	MG	2A	3606	1/1	0.93	0.08	23,23,23,23	0
58	MG	2a	1614	1/1	0.93	0.22	74,74,74,74	0
58	MG	2A	3080	1/1	0.93	0.09	40,40,40,40	0
58	MG	1A	3349	1/1	0.93	0.13	52,52,52,52	0
58	MG	1A	3665	1/1	0.93	0.06	35,35,35,35	0
58	MG	1B	226	1/1	0.93	0.07	48,48,48,48	0
58	MG	2A	3616	1/1	0.93	0.09	33,33,33,33	0
58	MG	1A	3667	1/1	0.93	0.08	19,19,19,19	0
58	MG	1A	3540	1/1	0.93	0.14	53,53,53,53	0
58	MG	2A	3631	1/1	0.93	0.08	42,42,42,42	0
58	MG	1A	3301	1/1	0.93	0.31	51,51,51,51	0
58	MG	1a	1689	1/1	0.93	0.30	51,51,51,51	0
58	MG	1B	233	1/1	0.93	0.08	46,46,46,46	0
58	MG	1a	1692	1/1	0.93	0.27	47,47,47,47	0
58	MG	1A	3057	1/1	0.93	0.07	41,41,41,41	0
58	MG	2A	3340	1/1	0.93	0.09	54,54,54,54	0
58	MG	1A	3205	1/1	0.93	0.12	53,53,53,53	0
58	MG	1A	3836	1/1	0.93	0.08	36,36,36,36	0
58	MG	1A	3551	1/1	0.93	0.13	24,24,24,24	0
58	MG	1A	3308	1/1	0.93	0.13	47,47,47,47	0
58	MG	1A	3968	1/1	0.93	0.07	68,68,68,68	0
58	MG	1A	3969	1/1	0.93	0.10	60,60,60,60	0
58	MG	2A	3352	1/1	0.93	0.19	62,62,62,62	0
58	MG	2a	1648	1/1	0.93	0.09	60,60,60,60	0
58	MG	1a	1702	1/1	0.93	0.14	53,53,53,53	0
58	MG	2A	3354	1/1	0.93	0.09	46,46,46,46	0
58	MG	1A	3564	1/1	0.93	0.14	36,36,36,36	0
58	MG	2A	3125	1/1	0.93	0.14	50,50,50,50	0
58	MG	1E	316	1/1	0.93	0.07	36,36,36,36	0
58	MG	1a	1708	1/1	0.93	0.47	69,69,69,69	0
58	MG	1A	3972	1/1	0.93	0.08	40,40,40,40	0
58	MG	1G	201	1/1	0.93	0.10	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3130	1/1	0.93	0.08	47,47,47,47	0
58	MG	2a	1662	1/1	0.93	0.16	69,69,69,69	0
58	MG	1a	1715	1/1	0.93	0.17	53,53,53,53	0
58	MG	2A	3133	1/1	0.93	0.12	80,80,80,80	0
58	MG	2A	3134	1/1	0.93	0.08	40,40,40,40	0
58	MG	2a	1668	1/1	0.93	0.08	67,67,67,67	0
58	MG	2a	1670	1/1	0.93	0.25	66,66,66,66	0
58	MG	2A	3367	1/1	0.93	0.09	54,54,54,54	0
58	MG	1A	3699	1/1	0.93	0.09	36,36,36,36	0
58	MG	2a	1675	1/1	0.93	0.27	63,63,63,63	0
58	MG	2A	3137	1/1	0.93	0.19	58,58,58,58	0
58	MG	1A	3841	1/1	0.93	0.06	38,38,38,38	0
58	MG	1a	1725	1/1	0.93	0.07	46,46,46,46	0
58	MG	1O	201	1/1	0.93	0.08	54,54,54,54	0
58	MG	2A	3147	1/1	0.93	0.12	48,48,48,48	0
58	MG	2A	3148	1/1	0.93	0.23	52,52,52,52	0
58	MG	1A	3360	1/1	0.93	0.10	37,37,37,37	0
58	MG	2a	1685	1/1	0.93	0.29	68,68,68,68	0
58	MG	2A	3378	1/1	0.93	0.16	62,62,62,62	0
58	MG	2a	1688	1/1	0.93	0.13	60,60,60,60	0
58	MG	1A	3712	1/1	0.93	0.13	52,52,52,52	0
58	MG	2a	1694	1/1	0.93	0.20	62,62,62,62	0
58	MG	2A	3381	1/1	0.93	0.07	50,50,50,50	0
58	MG	2A	3156	1/1	0.93	0.21	56,56,56,56	0
58	MG	1Q	207	1/1	0.93	0.09	32,32,32,32	0
58	MG	1R	202	1/1	0.93	0.10	49,49,49,49	0
58	MG	2A	3694	1/1	0.93	0.08	19,19,19,19	0
58	MG	1R	204	1/1	0.93	0.11	44,44,44,44	0
58	MG	2A	3388	1/1	0.93	0.12	68,68,68,68	0
58	MG	1A	3473	1/1	0.93	0.14	46,46,46,46	0
58	MG	1a	1741	1/1	0.93	0.10	61,61,61,61	0
58	MG	2A	3172	1/1	0.93	0.16	56,56,56,56	0
58	MG	2A	3392	1/1	0.93	0.22	68,68,68,68	0
58	MG	1A	3987	1/1	0.93	0.08	40,40,40,40	0
58	MG	1U	204	1/1	0.93	0.25	37,37,37,37	0
58	MG	1A	3586	1/1	0.93	0.06	42,42,42,42	0
58	MG	1V	209	1/1	0.93	0.10	55,55,55,55	0
58	MG	1A	3073	1/1	0.93	0.26	53,53,53,53	0
58	MG	2A	3720	1/1	0.93	0.12	56,56,56,56	0
58	MG	1A	3724	1/1	0.93	0.11	63,63,63,63	0
58	MG	2A	3411	1/1	0.93	0.12	41,41,41,41	0
58	MG	2a	1721	1/1	0.93	0.17	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3727	1/1	0.93	0.07	68,68,68,68	0
58	MG	1A	3170	1/1	0.93	0.19	39,39,39,39	0
58	MG	1A	3416	1/1	0.93	0.18	48,48,48,48	0
58	MG	1A	3863	1/1	0.93	0.10	54,54,54,54	0
58	MG	1A	3213	1/1	0.93	0.13	50,50,50,50	0
58	MG	10	108	1/1	0.93	0.14	52,52,52,52	0
58	MG	2a	1730	1/1	0.93	0.11	66,66,66,66	0
58	MG	11	104	1/1	0.93	0.10	63,63,63,63	0
58	MG	1A	3225	1/1	0.93	0.07	48,48,48,48	0
58	MG	1A	3230	1/1	0.93	0.09	45,45,45,45	0
58	MG	2A	3736	1/1	0.93	0.07	61,61,61,61	0
58	MG	2A	3426	1/1	0.93	0.11	71,71,71,71	0
58	MG	1A	3025	1/1	0.93	0.07	43,43,43,43	0
58	MG	2a	1739	1/1	0.93	0.35	59,59,59,59	0
58	MG	1a	1782	1/1	0.93	0.06	50,50,50,50	0
58	MG	1a	1783	1/1	0.93	0.07	63,63,63,63	0
58	MG	1A	3608	1/1	0.93	0.07	29,29,29,29	0
58	MG	2A	3744	1/1	0.93	0.16	51,51,51,51	0
58	MG	15	106	1/1	0.93	0.09	46,46,46,46	0
58	MG	1A	3872	1/1	0.93	0.27	44,44,44,44	0
58	MG	2A	3753	1/1	0.93	0.10	40,40,40,40	0
58	MG	18	102	1/1	0.93	0.15	37,37,37,37	0
58	MG	18	105	1/1	0.93	0.17	40,40,40,40	0
58	MG	18	106	1/1	0.93	0.14	56,56,56,56	0
58	MG	1A	3875	1/1	0.93	0.28	51,51,51,51	0
58	MG	1a	1808	1/1	0.93	0.20	56,56,56,56	0
58	MG	2A	3227	1/1	0.93	0.14	57,57,57,57	0
58	MG	2A	3770	1/1	0.93	0.13	58,58,58,58	0
58	MG	2a	1759	1/1	0.93	0.08	71,71,71,71	0
58	MG	2A	3231	1/1	0.93	0.17	41,41,41,41	0
58	MG	2A	3774	1/1	0.93	0.13	61,61,61,61	0
58	MG	2a	1765	1/1	0.93	0.06	68,68,68,68	0
58	MG	1A	3182	1/1	0.93	0.09	53,53,53,53	0
58	MG	1A	4040	1/1	0.93	0.06	39,39,39,39	0
58	MG	1A	3617	1/1	0.93	0.12	11,11,11,11	0
58	MG	1A	3620	1/1	0.93	0.09	65,65,65,65	0
58	MG	2A	3240	1/1	0.93	0.09	38,38,38,38	0
58	MG	2a	1775	1/1	0.93	0.13	61,61,61,61	0
58	MG	1A	3149	1/1	0.93	0.32	34,34,34,34	0
58	MG	2A	3466	1/1	0.93	0.16	50,50,50,50	0
58	MG	1A	3883	1/1	0.93	0.07	28,28,28,28	0
58	MG	1A	3053	1/1	0.93	0.10	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1785	1/1	0.93	0.11	65,65,65,65	0
58	MG	2A	3791	1/1	0.93	0.11	71,71,71,71	0
58	MG	1a	1614	1/1	0.93	0.19	54,54,54,54	0
58	MG	2A	3245	1/1	0.93	0.12	50,50,50,50	0
58	MG	2A	3800	1/1	0.93	0.11	60,60,60,60	0
58	MG	1A	4053	1/1	0.93	0.18	36,36,36,36	0
58	MG	2A	3475	1/1	0.93	0.14	60,60,60,60	0
58	MG	1A	3630	1/1	0.93	0.06	28,28,28,28	0
58	MG	2A	3808	1/1	0.93	0.14	35,35,35,35	0
58	MG	1A	3162	1/1	0.93	0.11	47,47,47,47	0
58	MG	2a	1799	1/1	0.93	0.13	71,71,71,71	0
58	MG	2A	3251	1/1	0.93	0.22	62,62,62,62	0
58	MG	1A	4062	1/1	0.93	0.09	23,23,23,23	0
58	MG	1A	3516	1/1	0.93	0.11	49,49,49,49	0
58	MG	2a	1803	1/1	0.93	0.12	53,53,53,53	0
58	MG	1A	3390	1/1	0.93	0.23	36,36,36,36	0
58	MG	2A	3819	1/1	0.93	0.17	63,63,63,63	0
58	MG	2a	1808	1/1	0.93	0.12	74,74,74,74	0
58	MG	2A	3487	1/1	0.93	0.10	51,51,51,51	0
58	MG	2A	3494	1/1	0.93	0.10	62,62,62,62	0
58	MG	2A	3257	1/1	0.93	0.14	48,48,48,48	0
58	MG	2A	3500	1/1	0.93	0.13	63,63,63,63	0
58	MG	1A	4069	1/1	0.93	0.09	45,45,45,45	0
58	MG	2a	1816	1/1	0.93	0.15	68,68,68,68	0
58	MG	1x	107	1/1	0.93	0.24	67,67,67,67	0
58	MG	2A	3503	1/1	0.93	0.13	40,40,40,40	0
58	MG	1A	3519	1/1	0.93	0.06	50,50,50,50	0
58	MG	1x	110	1/1	0.93	0.21	63,63,63,63	0
58	MG	2A	3507	1/1	0.93	0.18	57,57,57,57	0
58	MG	2A	3268	1/1	0.93	0.20	65,65,65,65	0
58	MG	2a	1828	1/1	0.93	0.11	71,71,71,71	0
58	MG	1A	4073	1/1	0.93	0.08	32,32,32,32	0
58	MG	1A	3793	1/1	0.93	0.10	39,39,39,39	0
58	MG	1A	3523	1/1	0.93	0.22	36,36,36,36	0
58	MG	2f	202	1/1	0.93	0.10	67,67,67,67	0
58	MG	2A	3008	1/1	0.93	0.13	55,55,55,55	0
58	MG	2A	3515	1/1	0.93	0.11	60,60,60,60	0
58	MG	2A	3518	1/1	0.93	0.08	49,49,49,49	0
58	MG	2A	3275	1/1	0.93	0.24	55,55,55,55	0
58	MG	2A	3520	1/1	0.93	0.10	33,33,33,33	0
58	MG	2A	3521	1/1	0.93	0.13	58,58,58,58	0
58	MG	1A	4081	1/1	0.93	0.09	55,55,55,55	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3524	1/1	0.93	0.08	40,40,40,40	0
58	MG	2q	201	1/1	0.93	0.08	72,72,72,72	0
58	MG	2A	3277	1/1	0.93	0.10	58,58,58,58	0
58	MG	1A	3339	1/1	0.93	0.08	52,52,52,52	0
58	MG	2A	3529	1/1	0.93	0.10	57,57,57,57	0
58	MG	2B	211	1/1	0.93	0.13	57,57,57,57	0
58	MG	2B	213	1/1	0.93	0.20	62,62,62,62	0
58	MG	2A	3286	1/1	0.93	0.08	47,47,47,47	0
58	MG	1A	3898	1/1	0.93	0.07	54,54,54,54	0
58	MG	2A	3537	1/1	0.93	0.08	35,35,35,35	0
58	MG	1A	4084	1/1	0.93	0.17	56,56,56,56	0
58	MG	1A	3902	1/1	0.93	0.13	44,44,44,44	0
58	MG	1A	3903	1/1	0.93	0.22	29,29,29,29	0
59	K	1A	3556	1/1	0.93	0.20	72,72,72,72	0
58	MG	2A	3810	1/1	0.94	0.11	59,59,59,59	0
58	MG	1A	4055	1/1	0.94	0.07	40,40,40,40	0
58	MG	1A	3829	1/1	0.94	0.09	35,35,35,35	0
58	MG	1A	3597	1/1	0.94	0.15	32,32,32,32	0
58	MG	1a	1669	1/1	0.94	0.18	63,63,63,63	0
58	MG	2A	3424	1/1	0.94	0.28	58,58,58,58	0
58	MG	2A	3820	1/1	0.94	0.13	44,44,44,44	0
58	MG	1A	3433	1/1	0.94	0.14	44,44,44,44	0
58	MG	2A	3131	1/1	0.94	0.09	44,44,44,44	0
58	MG	2A	3427	1/1	0.94	0.15	46,46,46,46	0
58	MG	2A	3831	1/1	0.94	0.08	73,73,73,73	0
58	MG	1a	1671	1/1	0.94	0.26	68,68,68,68	0
58	MG	2A	3835	1/1	0.94	0.08	45,45,45,45	0
58	MG	1A	3064	1/1	0.94	0.11	49,49,49,49	0
58	MG	1A	3605	1/1	0.94	0.07	46,46,46,46	0
58	MG	1a	1675	1/1	0.94	0.16	48,48,48,48	0
58	MG	1A	3606	1/1	0.94	0.12	24,24,24,24	0
58	MG	1A	3439	1/1	0.94	0.20	42,42,42,42	0
58	MG	1A	3242	1/1	0.94	0.06	45,45,45,45	0
58	MG	2A	3145	1/1	0.94	0.16	43,43,43,43	0
58	MG	1A	4074	1/1	0.94	0.12	54,54,54,54	0
58	MG	1A	3441	1/1	0.94	0.12	37,37,37,37	0
58	MG	1A	3445	1/1	0.94	0.06	52,52,52,52	0
58	MG	2A	3857	1/1	0.94	0.12	53,53,53,53	0
58	MG	1A	4079	1/1	0.94	0.11	55,55,55,55	0
58	MG	2A	3449	1/1	0.94	0.15	50,50,50,50	0
58	MG	2A	3861	1/1	0.94	0.10	54,54,54,54	0
58	MG	1a	1686	1/1	0.94	0.11	38,38,38,38	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3452	1/1	0.94	0.10	48,48,48,48	0
58	MG	2B	201	1/1	0.94	0.13	63,63,63,63	0
58	MG	1A	4080	1/1	0.94	0.16	66,66,66,66	0
58	MG	2A	3456	1/1	0.94	0.45	45,45,45,45	0
58	MG	2A	3157	1/1	0.94	0.14	43,43,43,43	0
58	MG	1A	3243	1/1	0.94	0.15	57,57,57,57	0
58	MG	2A	3161	1/1	0.94	0.17	68,68,68,68	0
58	MG	2A	3462	1/1	0.94	0.14	71,71,71,71	0
58	MG	2A	3163	1/1	0.94	0.20	66,66,66,66	0
58	MG	1A	3853	1/1	0.94	0.16	45,45,45,45	0
58	MG	2A	3166	1/1	0.94	0.11	51,51,51,51	0
58	MG	2A	3167	1/1	0.94	0.11	47,47,47,47	0
58	MG	2B	215	1/1	0.94	0.12	63,63,63,63	0
58	MG	1A	3624	1/1	0.94	0.09	43,43,43,43	0
58	MG	1a	1691	1/1	0.94	0.23	60,60,60,60	0
58	MG	1A	3337	1/1	0.94	0.07	45,45,45,45	0
58	MG	1A	4086	1/1	0.94	0.16	50,50,50,50	0
58	MG	1A	3157	1/1	0.94	0.06	51,51,51,51	0
58	MG	1A	4092	1/1	0.94	0.15	55,55,55,55	0
58	MG	2A	3176	1/1	0.94	0.12	73,73,73,73	0
58	MG	2D	307	1/1	0.94	0.09	53,53,53,53	0
58	MG	2E	301	1/1	0.94	0.17	63,63,63,63	0
58	MG	1A	3634	1/1	0.94	0.11	46,46,46,46	0
58	MG	1A	3451	1/1	0.94	0.10	50,50,50,50	0
58	MG	2E	306	1/1	0.94	0.07	30,30,30,30	0
58	MG	2A	3181	1/1	0.94	0.11	47,47,47,47	0
58	MG	2F	301	1/1	0.94	0.20	60,60,60,60	0
58	MG	2A	3182	1/1	0.94	0.18	52,52,52,52	0
58	MG	1a	1698	1/1	0.94	0.19	50,50,50,50	0
58	MG	2A	3488	1/1	0.94	0.15	58,58,58,58	0
58	MG	2F	305	1/1	0.94	0.20	47,47,47,47	0
58	MG	2A	3489	1/1	0.94	0.32	57,57,57,57	0
58	MG	1A	3050	1/1	0.94	0.11	38,38,38,38	0
58	MG	1a	1700	1/1	0.94	0.08	54,54,54,54	0
58	MG	2A	3498	1/1	0.94	0.09	63,63,63,63	0
58	MG	1A	3248	1/1	0.94	0.06	54,54,54,54	0
58	MG	1A	3163	1/1	0.94	0.24	61,61,61,61	0
58	MG	1a	1703	1/1	0.94	0.18	62,62,62,62	0
58	MG	1a	1704	1/1	0.94	0.13	55,55,55,55	0
58	MG	2T	3500	1/1	0.94	0.08	63,63,63,63	0
58	MG	1B	204	1/1	0.94	0.05	35,35,35,35	0
58	MG	1A	3865	1/1	0.94	0.07	23,23,23,23	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1B	206	1/1	0.94	0.06	40,40,40,40	0
58	MG	1a	1710	1/1	0.94	0.12	52,52,52,52	0
58	MG	2Y	201	1/1	0.94	0.18	48,48,48,48	0
58	MG	2A	3199	1/1	0.94	0.21	56,56,56,56	0
58	MG	1a	1711	1/1	0.94	0.12	46,46,46,46	0
58	MG	2A	3201	1/1	0.94	0.28	67,67,67,67	0
58	MG	1A	3164	1/1	0.94	0.13	48,48,48,48	0
58	MG	23	101	1/1	0.94	0.09	46,46,46,46	0
58	MG	1A	3645	1/1	0.94	0.10	28,28,28,28	0
58	MG	1A	3465	1/1	0.94	0.15	49,49,49,49	0
58	MG	1A	3869	1/1	0.94	0.27	32,32,32,32	0
58	MG	1A	3021	1/1	0.94	0.08	39,39,39,39	0
58	MG	1a	1724	1/1	0.94	0.09	58,58,58,58	0
58	MG	1B	215	1/1	0.94	0.10	53,53,53,53	0
58	MG	1A	3871	1/1	0.94	0.23	38,38,38,38	0
58	MG	2a	1605	1/1	0.94	0.14	58,58,58,58	0
58	MG	2A	3220	1/1	0.94	0.13	48,48,48,48	0
58	MG	1A	3352	1/1	0.94	0.16	37,37,37,37	0
58	MG	2A	3528	1/1	0.94	0.18	58,58,58,58	0
58	MG	1A	3258	1/1	0.94	0.20	50,50,50,50	0
58	MG	1A	3654	1/1	0.94	0.11	40,40,40,40	0
58	MG	2A	3531	1/1	0.94	0.14	42,42,42,42	0
58	MG	1a	1734	1/1	0.94	0.16	51,51,51,51	0
58	MG	1A	3081	1/1	0.94	0.16	36,36,36,36	0
58	MG	2A	3539	1/1	0.94	0.12	39,39,39,39	0
58	MG	2a	1617	1/1	0.94	0.16	49,49,49,49	0
58	MG	2A	3235	1/1	0.94	0.10	41,41,41,41	0
58	MG	2a	1619	1/1	0.94	0.06	43,43,43,43	0
58	MG	1A	3001	1/1	0.94	0.06	39,39,39,39	0
58	MG	1A	3663	1/1	0.94	0.05	23,23,23,23	0
58	MG	1a	1740	1/1	0.94	0.09	56,56,56,56	0
58	MG	1A	3358	1/1	0.94	0.08	47,47,47,47	0
58	MG	1A	3094	1/1	0.94	0.10	43,43,43,43	0
58	MG	2a	1626	1/1	0.94	0.09	65,65,65,65	0
58	MG	1A	3670	1/1	0.94	0.08	27,27,27,27	0
58	MG	1A	3673	1/1	0.94	0.07	20,20,20,20	0
58	MG	2a	1629	1/1	0.94	0.12	64,64,64,64	0
58	MG	1A	3890	1/1	0.94	0.06	25,25,25,25	0
58	MG	1A	3363	1/1	0.94	0.22	42,42,42,42	0
58	MG	2A	3246	1/1	0.94	0.11	62,62,62,62	0
58	MG	2A	3567	1/1	0.94	0.09	64,64,64,64	0
58	MG	2a	1635	1/1	0.94	0.17	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1636	1/1	0.94	0.26	59,59,59,59	0
58	MG	1A	3004	1/1	0.94	0.05	24,24,24,24	0
58	MG	1a	1759	1/1	0.94	0.09	56,56,56,56	0
58	MG	2A	3249	1/1	0.94	0.06	63,63,63,63	0
58	MG	1E	310	1/1	0.94	0.10	48,48,48,48	0
58	MG	1A	3101	1/1	0.94	0.09	36,36,36,36	0
58	MG	1A	3483	1/1	0.94	0.14	50,50,50,50	0
58	MG	1a	1763	1/1	0.94	0.09	64,64,64,64	0
58	MG	2A	3255	1/1	0.94	0.07	68,68,68,68	0
58	MG	1A	3104	1/1	0.94	0.11	29,29,29,29	0
58	MG	1A	3487	1/1	0.94	0.08	47,47,47,47	0
58	MG	2A	3583	1/1	0.94	0.06	52,52,52,52	0
58	MG	2a	1651	1/1	0.94	0.05	51,51,51,51	0
58	MG	2a	1652	1/1	0.94	0.27	66,66,66,66	0
58	MG	2A	3584	1/1	0.94	0.08	63,63,63,63	0
58	MG	1a	1769	1/1	0.94	0.12	60,60,60,60	0
58	MG	1F	309	1/1	0.94	0.09	40,40,40,40	0
58	MG	1A	3040	1/1	0.94	0.07	30,30,30,30	0
58	MG	1A	3697	1/1	0.94	0.10	41,41,41,41	0
58	MG	2A	3266	1/1	0.94	0.16	54,54,54,54	0
58	MG	1A	3489	1/1	0.94	0.18	47,47,47,47	0
58	MG	2A	3269	1/1	0.94	0.10	62,62,62,62	0
58	MG	1A	3705	1/1	0.94	0.13	37,37,37,37	0
58	MG	2a	1664	1/1	0.94	0.08	62,62,62,62	0
58	MG	1A	3270	1/1	0.94	0.19	39,39,39,39	0
58	MG	1A	3711	1/1	0.94	0.12	56,56,56,56	0
58	MG	1a	1785	1/1	0.94	0.09	63,63,63,63	0
58	MG	1A	3500	1/1	0.94	0.09	58,58,58,58	0
58	MG	1a	1790	1/1	0.94	0.07	73,73,73,73	0
58	MG	2a	1673	1/1	0.94	0.11	66,66,66,66	0
58	MG	1Q	204	1/1	0.94	0.13	60,60,60,60	0
58	MG	1Q	206	1/1	0.94	0.09	51,51,51,51	0
58	MG	2A	3285	1/1	0.94	0.07	61,61,61,61	0
58	MG	2A	3609	1/1	0.94	0.07	50,50,50,50	0
58	MG	2A	3610	1/1	0.94	0.10	43,43,43,43	0
58	MG	1A	3271	1/1	0.94	0.07	46,46,46,46	0
58	MG	1a	1794	1/1	0.94	0.13	65,65,65,65	0
58	MG	1A	3922	1/1	0.94	0.07	45,45,45,45	0
58	MG	2a	1683	1/1	0.94	0.08	61,61,61,61	0
58	MG	2A	3617	1/1	0.94	0.11	44,44,44,44	0
58	MG	2A	3623	1/1	0.94	0.07	37,37,37,37	0
58	MG	2a	1686	1/1	0.94	0.18	66,66,66,66	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1796	1/1	0.94	0.09	68,68,68,68	0
58	MG	1a	1797	1/1	0.94	0.06	47,47,47,47	0
58	MG	2a	1689	1/1	0.94	0.23	60,60,60,60	0
58	MG	2a	1690	1/1	0.94	0.15	64,64,64,64	0
58	MG	2a	1691	1/1	0.94	0.27	60,60,60,60	0
58	MG	2A	3627	1/1	0.94	0.15	53,53,53,53	0
58	MG	1A	3505	1/1	0.94	0.07	46,46,46,46	0
58	MG	2a	1695	1/1	0.94	0.11	76,76,76,76	0
58	MG	2A	3293	1/1	0.94	0.24	56,56,56,56	0
58	MG	2a	1699	1/1	0.94	0.14	57,57,57,57	0
58	MG	1a	1803	1/1	0.94	0.23	58,58,58,58	0
58	MG	1A	3924	1/1	0.94	0.06	40,40,40,40	0
58	MG	1a	1805	1/1	0.94	0.14	53,53,53,53	0
58	MG	1A	3926	1/1	0.94	0.10	45,45,45,45	0
58	MG	1T	202	1/1	0.94	0.10	41,41,41,41	0
58	MG	1U	203	1/1	0.94	0.07	57,57,57,57	0
58	MG	1A	3379	1/1	0.94	0.20	38,38,38,38	0
58	MG	2A	3644	1/1	0.94	0.24	53,53,53,53	0
58	MG	1e	202	1/1	0.94	0.10	54,54,54,54	0
58	MG	1A	3280	1/1	0.94	0.39	33,33,33,33	0
58	MG	1l	202	1/1	0.94	0.06	55,55,55,55	0
58	MG	1A	3508	1/1	0.94	0.12	63,63,63,63	0
58	MG	1A	3281	1/1	0.94	0.07	42,42,42,42	0
58	MG	1A	3941	1/1	0.94	0.08	51,51,51,51	0
58	MG	1A	3734	1/1	0.94	0.11	61,61,61,61	0
58	MG	2A	3659	1/1	0.94	0.13	50,50,50,50	0
58	MG	2A	3311	1/1	0.94	0.11	62,62,62,62	0
58	MG	2A	3312	1/1	0.94	0.11	68,68,68,68	0
58	MG	1A	3943	1/1	0.94	0.07	51,51,51,51	0
58	MG	1A	3735	1/1	0.94	0.17	57,57,57,57	0
58	MG	1A	3517	1/1	0.94	0.17	60,60,60,60	0
58	MG	1A	3747	1/1	0.94	0.17	62,62,62,62	0
58	MG	10	106	1/1	0.94	0.10	64,64,64,64	0
58	MG	1A	3954	1/1	0.94	0.07	44,44,44,44	0
58	MG	1l	101	1/1	0.94	0.30	47,47,47,47	0
58	MG	2A	3671	1/1	0.94	0.10	47,47,47,47	0
58	MG	1A	3955	1/1	0.94	0.05	34,34,34,34	0
58	MG	2a	1732	1/1	0.94	0.26	59,59,59,59	0
58	MG	1A	3194	1/1	0.94	0.28	36,36,36,36	0
58	MG	1A	3195	1/1	0.94	0.21	47,47,47,47	0
58	MG	1x	111	1/1	0.94	0.21	55,55,55,55	0
58	MG	2a	1736	1/1	0.94	0.26	43,43,43,43	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3115	1/1	0.94	0.08	40,40,40,40	0
58	MG	1A	3524	1/1	0.94	0.18	47,47,47,47	0
58	MG	15	103	1/1	0.94	0.17	30,30,30,30	0
58	MG	2A	3681	1/1	0.94	0.06	68,68,68,68	0
58	MG	1A	3962	1/1	0.94	0.07	16,16,16,16	0
58	MG	1A	3119	1/1	0.94	0.08	33,33,33,33	0
58	MG	2A	3014	1/1	0.94	0.08	45,45,45,45	0
58	MG	2A	3016	1/1	0.94	0.10	74,74,74,74	0
58	MG	2a	1745	1/1	0.94	0.09	77,77,77,77	0
58	MG	17	102	1/1	0.94	0.10	45,45,45,45	0
58	MG	18	101	1/1	0.94	0.13	47,47,47,47	0
58	MG	1A	3965	1/1	0.94	0.12	54,54,54,54	0
58	MG	2A	3033	1/1	0.94	0.20	51,51,51,51	0
58	MG	1A	3296	1/1	0.94	0.30	60,60,60,60	0
58	MG	2A	3341	1/1	0.94	0.16	68,68,68,68	0
58	MG	2A	3695	1/1	0.94	0.10	65,65,65,65	0
58	MG	1A	3763	1/1	0.94	0.07	20,20,20,20	0
58	MG	18	108	1/1	0.94	0.12	48,48,48,48	0
58	MG	2A	3346	1/1	0.94	0.07	55,55,55,55	0
58	MG	1A	3970	1/1	0.94	0.09	62,62,62,62	0
58	MG	1A	3767	1/1	0.94	0.08	25,25,25,25	0
58	MG	2a	1762	1/1	0.94	0.07	56,56,56,56	0
58	MG	1A	3532	1/1	0.94	0.19	57,57,57,57	0
58	MG	2A	3706	1/1	0.94	0.13	53,53,53,53	0
58	MG	2A	3043	1/1	0.94	0.14	67,67,67,67	0
58	MG	2A	3351	1/1	0.94	0.17	64,64,64,64	0
58	MG	2a	1770	1/1	0.94	0.07	79,79,79,79	0
58	MG	1A	3120	1/1	0.94	0.10	33,33,33,33	0
58	MG	1a	1604	1/1	0.94	0.13	64,64,64,64	0
58	MG	1A	3207	1/1	0.94	0.10	52,52,52,52	0
58	MG	1A	3774	1/1	0.94	0.09	20,20,20,20	0
58	MG	1A	3397	1/1	0.94	0.20	31,31,31,31	0
58	MG	1A	3981	1/1	0.94	0.08	39,39,39,39	0
58	MG	1A	3017	1/1	0.94	0.17	34,34,34,34	0
58	MG	1A	3986	1/1	0.94	0.23	41,41,41,41	0
58	MG	2A	3727	1/1	0.94	0.18	48,48,48,48	0
58	MG	1A	3047	1/1	0.94	0.09	19,19,19,19	0
58	MG	1A	3135	1/1	0.94	0.11	31,31,31,31	0
58	MG	1A	3219	1/1	0.94	0.10	42,42,42,42	0
58	MG	2a	1791	1/1	0.94	0.23	71,71,71,71	0
58	MG	1a	1621	1/1	0.94	0.05	46,46,46,46	0
58	MG	2A	3061	1/1	0.94	0.14	60,60,60,60	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3062	1/1	0.94	0.07	41,41,41,41	0
58	MG	2a	1796	1/1	0.94	0.12	53,53,53,53	0
58	MG	1A	3222	1/1	0.94	0.16	47,47,47,47	0
58	MG	1A	3552	1/1	0.94	0.27	29,29,29,29	0
58	MG	1A	3794	1/1	0.94	0.11	52,52,52,52	0
58	MG	1A	3554	1/1	0.94	0.14	54,54,54,54	0
58	MG	2A	3373	1/1	0.94	0.11	52,52,52,52	0
58	MG	1A	3223	1/1	0.94	0.12	43,43,43,43	0
58	MG	2A	3741	1/1	0.94	0.06	42,42,42,42	0
58	MG	1A	3142	1/1	0.94	0.09	43,43,43,43	0
58	MG	2A	3078	1/1	0.94	0.11	50,50,50,50	0
58	MG	1A	3319	1/1	0.94	0.07	40,40,40,40	0
58	MG	1A	3571	1/1	0.94	0.07	39,39,39,39	0
58	MG	2A	3748	1/1	0.94	0.08	63,63,63,63	0
58	MG	2A	3751	1/1	0.94	0.07	51,51,51,51	0
58	MG	2A	3379	1/1	0.94	0.20	46,46,46,46	0
58	MG	1A	3582	1/1	0.94	0.12	54,54,54,54	0
58	MG	2A	3085	1/1	0.94	0.14	55,55,55,55	0
58	MG	2A	3383	1/1	0.94	0.28	58,58,58,58	0
58	MG	1A	3583	1/1	0.94	0.08	38,38,38,38	0
58	MG	2A	3762	1/1	0.94	0.08	53,53,53,53	0
58	MG	1A	4032	1/1	0.94	0.09	33,33,33,33	0
58	MG	2a	1822	1/1	0.94	0.23	64,64,64,64	0
58	MG	2a	1824	1/1	0.94	0.16	61,61,61,61	0
58	MG	1A	3227	1/1	0.94	0.11	28,28,28,28	0
58	MG	2A	3768	1/1	0.94	0.07	51,51,51,51	0
58	MG	1A	3585	1/1	0.94	0.12	35,35,35,35	0
58	MG	2A	3093	1/1	0.94	0.06	42,42,42,42	0
58	MG	2d	301	1/1	0.94	0.40	60,60,60,60	0
58	MG	1a	1643	1/1	0.94	0.13	50,50,50,50	0
58	MG	1A	3419	1/1	0.94	0.08	40,40,40,40	0
58	MG	1A	3322	1/1	0.94	0.12	56,56,56,56	0
58	MG	1A	4042	1/1	0.94	0.07	37,37,37,37	0
58	MG	1A	3324	1/1	0.94	0.11	45,45,45,45	0
58	MG	2A	3105	1/1	0.94	0.12	54,54,54,54	0
58	MG	2A	3781	1/1	0.94	0.14	74,74,74,74	0
58	MG	1a	1654	1/1	0.94	0.15	60,60,60,60	0
58	MG	2A	3396	1/1	0.94	0.08	52,52,52,52	0
58	MG	1A	3147	1/1	0.94	0.09	30,30,30,30	0
58	MG	1A	3062	1/1	0.94	0.21	40,40,40,40	0
58	MG	2A	3789	1/1	0.94	0.08	52,52,52,52	0
58	MG	1a	1657	1/1	0.94	0.10	65,65,65,65	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3410	1/1	0.94	0.10	42,42,42,42	0
58	MG	1A	3823	1/1	0.94	0.08	23,23,23,23	0
58	MG	2A	3795	1/1	0.94	0.09	40,40,40,40	0
58	MG	1A	3432	1/1	0.94	0.13	39,39,39,39	0
58	MG	2A	3413	1/1	0.94	0.28	52,52,52,52	0
58	MG	2x	101	1/1	0.94	0.08	56,56,56,56	0
58	MG	2A	3414	1/1	0.94	0.14	54,54,54,54	0
58	MG	2A	3119	1/1	0.94	0.18	57,57,57,57	0
58	MG	2A	3806	1/1	0.94	0.07	37,37,37,37	0
58	MG	2A	3807	1/1	0.94	0.08	52,52,52,52	0
58	MG	1A	3827	1/1	0.94	0.08	37,37,37,37	0
58	MG	1a	1663	1/1	0.94	0.11	54,54,54,54	0
58	MG	2A	3446	1/1	0.95	0.28	48,48,48,48	0
58	MG	2A	3828	1/1	0.95	0.07	56,56,56,56	0
58	MG	1B	228	1/1	0.95	0.08	46,46,46,46	0
58	MG	2A	3164	1/1	0.95	0.09	53,53,53,53	0
58	MG	1A	3425	1/1	0.95	0.12	50,50,50,50	0
58	MG	2A	3834	1/1	0.95	0.13	55,55,55,55	0
58	MG	1A	3900	1/1	0.95	0.08	44,44,44,44	0
58	MG	2A	3453	1/1	0.95	0.07	42,42,42,42	0
58	MG	1A	3158	1/1	0.95	0.12	27,27,27,27	0
58	MG	2A	3455	1/1	0.95	0.17	45,45,45,45	0
58	MG	2A	3843	1/1	0.95	0.09	52,52,52,52	0
58	MG	1a	1707	1/1	0.95	0.18	41,41,41,41	0
58	MG	1A	3713	1/1	0.95	0.14	52,52,52,52	0
58	MG	2A	3847	1/1	0.95	0.06	66,66,66,66	0
58	MG	1A	3272	1/1	0.95	0.26	47,47,47,47	0
58	MG	1A	3274	1/1	0.95	0.09	41,41,41,41	0
58	MG	2A	3851	1/1	0.95	0.10	51,51,51,51	0
58	MG	1A	3542	1/1	0.95	0.09	61,61,61,61	0
58	MG	2A	3174	1/1	0.95	0.13	47,47,47,47	0
58	MG	1A	3346	1/1	0.95	0.07	39,39,39,39	0
58	MG	1E	304	1/1	0.95	0.12	35,35,35,35	0
58	MG	1A	3915	1/1	0.95	0.16	28,28,28,28	0
58	MG	2A	3468	1/1	0.95	0.14	48,48,48,48	0
58	MG	1E	308	1/1	0.95	0.08	40,40,40,40	0
58	MG	1a	1720	1/1	0.95	0.10	49,49,49,49	0
58	MG	2A	3471	1/1	0.95	0.09	37,37,37,37	0
58	MG	1a	1721	1/1	0.95	0.17	54,54,54,54	0
58	MG	1A	3278	1/1	0.95	0.14	28,28,28,28	0
58	MG	1A	3919	1/1	0.95	0.07	31,31,31,31	0
58	MG	2A	3476	1/1	0.95	0.22	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2B	205	1/1	0.95	0.08	48,48,48,48	0
58	MG	2A	3477	1/1	0.95	0.06	61,61,61,61	0
58	MG	2B	207	1/1	0.95	0.07	62,62,62,62	0
58	MG	2A	3480	1/1	0.95	0.12	37,37,37,37	0
58	MG	1A	3920	1/1	0.95	0.07	46,46,46,46	0
58	MG	1A	3921	1/1	0.95	0.12	69,69,69,69	0
58	MG	1E	315	1/1	0.95	0.05	45,45,45,45	0
58	MG	2B	212	1/1	0.95	0.25	62,62,62,62	0
58	MG	1a	1732	1/1	0.95	0.08	52,52,52,52	0
58	MG	1A	3545	1/1	0.95	0.18	60,60,60,60	0
58	MG	1F	303	1/1	0.95	0.12	29,29,29,29	0
58	MG	1A	3434	1/1	0.95	0.10	52,52,52,52	0
58	MG	1F	310	1/1	0.95	0.14	47,47,47,47	0
58	MG	1F	311	1/1	0.95	0.17	40,40,40,40	0
58	MG	2A	3493	1/1	0.95	0.18	44,44,44,44	0
58	MG	1A	3016	1/1	0.95	0.14	61,61,61,61	0
58	MG	1A	3736	1/1	0.95	0.07	42,42,42,42	0
58	MG	1A	3737	1/1	0.95	0.07	64,64,64,64	0
58	MG	1G	204	1/1	0.95	0.12	52,52,52,52	0
58	MG	1A	3111	1/1	0.95	0.17	39,39,39,39	0
58	MG	1a	1749	1/1	0.95	0.14	53,53,53,53	0
58	MG	2A	3207	1/1	0.95	0.08	55,55,55,55	0
58	MG	2E	304	1/1	0.95	0.08	61,61,61,61	0
58	MG	2A	3208	1/1	0.95	0.08	42,42,42,42	0
58	MG	1a	1752	1/1	0.95	0.09	48,48,48,48	0
58	MG	1a	1753	1/1	0.95	0.19	58,58,58,58	0
58	MG	1H	201	1/1	0.95	0.09	36,36,36,36	0
58	MG	2A	3215	1/1	0.95	0.10	67,67,67,67	0
58	MG	1I	201	1/1	0.95	0.08	59,59,59,59	0
58	MG	2A	3217	1/1	0.95	0.14	44,44,44,44	0
58	MG	2F	306	1/1	0.95	0.34	50,50,50,50	0
58	MG	1N	201	1/1	0.95	0.08	39,39,39,39	0
58	MG	2A	3219	1/1	0.95	0.15	46,46,46,46	0
58	MG	2A	3516	1/1	0.95	0.07	42,42,42,42	0
58	MG	1A	3076	1/1	0.95	0.22	51,51,51,51	0
58	MG	2A	3222	1/1	0.95	0.17	50,50,50,50	0
58	MG	2A	3223	1/1	0.95	0.20	52,52,52,52	0
58	MG	2Q	201	1/1	0.95	0.08	56,56,56,56	0
58	MG	1O	202	1/1	0.95	0.17	55,55,55,55	0
58	MG	1A	3748	1/1	0.95	0.07	49,49,49,49	0
58	MG	1P	204	1/1	0.95	0.36	57,57,57,57	0
58	MG	2A	3228	1/1	0.95	0.08	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2T	3502	1/1	0.95	0.10	52,52,52,52	0
58	MG	2A	3229	1/1	0.95	0.07	67,67,67,67	0
58	MG	2A	3527	1/1	0.95	0.07	39,39,39,39	0
58	MG	2A	3230	1/1	0.95	0.07	31,31,31,31	0
58	MG	1A	3353	1/1	0.95	0.18	54,54,54,54	0
58	MG	1a	1765	1/1	0.95	0.07	60,60,60,60	0
58	MG	1Q	202	1/1	0.95	0.09	33,33,33,33	0
58	MG	2A	3532	1/1	0.95	0.14	52,52,52,52	0
58	MG	1Q	203	1/1	0.95	0.06	38,38,38,38	0
58	MG	1A	3557	1/1	0.95	0.08	41,41,41,41	0
58	MG	2A	3538	1/1	0.95	0.08	49,49,49,49	0
58	MG	25	102	1/1	0.95	0.20	39,39,39,39	0
58	MG	1a	1771	1/1	0.95	0.09	66,66,66,66	0
58	MG	2A	3239	1/1	0.95	0.10	63,63,63,63	0
58	MG	1A	3563	1/1	0.95	0.23	58,58,58,58	0
58	MG	1A	3442	1/1	0.95	0.28	44,44,44,44	0
58	MG	1A	3286	1/1	0.95	0.12	52,52,52,52	0
58	MG	1a	1775	1/1	0.95	0.12	58,58,58,58	0
58	MG	2A	3550	1/1	0.95	0.12	46,46,46,46	0
58	MG	1A	3950	1/1	0.95	0.07	45,45,45,45	0
58	MG	1a	1779	1/1	0.95	0.09	69,69,69,69	0
58	MG	2A	3553	1/1	0.95	0.07	29,29,29,29	0
58	MG	1A	3570	1/1	0.95	0.20	32,32,32,32	0
58	MG	2A	3560	1/1	0.95	0.07	44,44,44,44	0
58	MG	1A	3953	1/1	0.95	0.06	43,43,43,43	0
58	MG	1S	203	1/1	0.95	0.11	61,61,61,61	0
58	MG	1A	3761	1/1	0.95	0.13	45,45,45,45	0
58	MG	2A	3565	1/1	0.95	0.16	54,54,54,54	0
58	MG	2A	3566	1/1	0.95	0.07	45,45,45,45	0
58	MG	1A	3027	1/1	0.95	0.20	27,27,27,27	0
58	MG	1A	3764	1/1	0.95	0.06	25,25,25,25	0
58	MG	1U	205	1/1	0.95	0.09	31,31,31,31	0
58	MG	1U	206	1/1	0.95	0.32	30,30,30,30	0
58	MG	1A	3573	1/1	0.95	0.14	40,40,40,40	0
58	MG	1V	208	1/1	0.95	0.08	51,51,51,51	0
58	MG	1A	3577	1/1	0.95	0.08	45,45,45,45	0
58	MG	1A	3959	1/1	0.95	0.10	49,49,49,49	0
58	MG	2A	3577	1/1	0.95	0.10	53,53,53,53	0
58	MG	1W	202	1/1	0.95	0.13	53,53,53,53	0
58	MG	2A	3262	1/1	0.95	0.28	58,58,58,58	0
58	MG	1a	1798	1/1	0.95	0.08	66,66,66,66	0
58	MG	1A	3580	1/1	0.95	0.12	23,23,23,23	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3356	1/1	0.95	0.09	43,43,43,43	0
58	MG	1A	3449	1/1	0.95	0.12	47,47,47,47	0
58	MG	2a	1634	1/1	0.95	0.14	64,64,64,64	0
58	MG	1A	3116	1/1	0.95	0.07	41,41,41,41	0
58	MG	1a	1807	1/1	0.95	0.07	51,51,51,51	0
58	MG	1A	3967	1/1	0.95	0.07	53,53,53,53	0
58	MG	2A	3591	1/1	0.95	0.13	53,53,53,53	0
58	MG	2A	3592	1/1	0.95	0.14	53,53,53,53	0
58	MG	2A	3593	1/1	0.95	0.10	58,58,58,58	0
58	MG	1A	3085	1/1	0.95	0.14	31,31,31,31	0
58	MG	2A	3595	1/1	0.95	0.14	62,62,62,62	0
58	MG	1A	3453	1/1	0.95	0.09	41,41,41,41	0
58	MG	2a	1646	1/1	0.95	0.08	61,61,61,61	0
58	MG	2A	3597	1/1	0.95	0.13	53,53,53,53	0
58	MG	1A	3588	1/1	0.95	0.12	50,50,50,50	0
58	MG	10	109	1/1	0.95	0.07	46,46,46,46	0
58	MG	1A	3240	1/1	0.95	0.20	34,34,34,34	0
58	MG	1l	201	1/1	0.95	0.05	76,76,76,76	0
58	MG	2A	3602	1/1	0.95	0.11	54,54,54,54	0
58	MG	2A	3281	1/1	0.95	0.08	47,47,47,47	0
58	MG	2a	1654	1/1	0.95	0.06	58,58,58,58	0
58	MG	2A	3282	1/1	0.95	0.07	44,44,44,44	0
58	MG	2A	3284	1/1	0.95	0.11	71,71,71,71	0
58	MG	1A	3788	1/1	0.95	0.08	58,58,58,58	0
58	MG	1l	105	1/1	0.95	0.07	42,42,42,42	0
58	MG	1n	102	1/1	0.95	0.26	59,59,59,59	0
58	MG	1p	101	1/1	0.95	0.11	51,51,51,51	0
58	MG	2a	1661	1/1	0.95	0.12	70,70,70,70	0
58	MG	2A	3289	1/1	0.95	0.12	58,58,58,58	0
58	MG	2A	3612	1/1	0.95	0.15	37,37,37,37	0
58	MG	1A	3591	1/1	0.95	0.12	53,53,53,53	0
58	MG	13	102	1/1	0.95	0.07	34,34,34,34	0
58	MG	1A	3361	1/1	0.95	0.12	36,36,36,36	0
58	MG	1A	3297	1/1	0.95	0.11	35,35,35,35	0
58	MG	2A	3619	1/1	0.95	0.07	40,40,40,40	0
58	MG	2A	3621	1/1	0.95	0.13	38,38,38,38	0
58	MG	2A	3294	1/1	0.95	0.09	61,61,61,61	0
58	MG	1A	3795	1/1	0.95	0.06	23,23,23,23	0
58	MG	1A	3594	1/1	0.95	0.16	52,52,52,52	0
58	MG	15	105	1/1	0.95	0.16	38,38,38,38	0
58	MG	1A	3982	1/1	0.95	0.11	35,35,35,35	0
58	MG	2A	3299	1/1	0.95	0.15	48,48,48,48	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3459	1/1	0.95	0.09	31,31,31,31	0
58	MG	1A	3179	1/1	0.95	0.13	23,23,23,23	0
58	MG	1A	3461	1/1	0.95	0.15	37,37,37,37	0
58	MG	1A	3598	1/1	0.95	0.11	37,37,37,37	0
58	MG	2A	3639	1/1	0.95	0.15	54,54,54,54	0
58	MG	1A	3993	1/1	0.95	0.05	16,16,16,16	0
58	MG	1A	3464	1/1	0.95	0.08	54,54,54,54	0
58	MG	18	107	1/1	0.95	0.10	58,58,58,58	0
58	MG	2A	3002	1/1	0.95	0.27	49,49,49,49	0
58	MG	1A	3368	1/1	0.95	0.12	53,53,53,53	0
58	MG	1A	3033	1/1	0.95	0.17	30,30,30,30	0
58	MG	2A	3650	1/1	0.95	0.18	60,60,60,60	0
58	MG	2a	1692	1/1	0.95	0.12	82,82,82,82	0
58	MG	1A	4000	1/1	0.95	0.14	39,39,39,39	0
58	MG	1A	4002	1/1	0.95	0.07	24,24,24,24	0
58	MG	1A	3467	1/1	0.95	0.20	47,47,47,47	0
58	MG	2a	1696	1/1	0.95	0.18	60,60,60,60	0
58	MG	2A	3015	1/1	0.95	0.09	48,48,48,48	0
58	MG	1A	4015	1/1	0.95	0.13	58,58,58,58	0
58	MG	2A	3658	1/1	0.95	0.05	48,48,48,48	0
58	MG	2A	3020	1/1	0.95	0.08	56,56,56,56	0
58	MG	1a	1605	1/1	0.95	0.10	47,47,47,47	0
58	MG	2a	1703	1/1	0.95	0.12	59,59,59,59	0
58	MG	1a	1606	1/1	0.95	0.12	65,65,65,65	0
58	MG	2A	3025	1/1	0.95	0.10	52,52,52,52	0
58	MG	2A	3026	1/1	0.95	0.16	46,46,46,46	0
58	MG	2A	3028	1/1	0.95	0.13	58,58,58,58	0
58	MG	1A	3181	1/1	0.95	0.10	48,48,48,48	0
58	MG	2A	3030	1/1	0.95	0.12	44,44,44,44	0
58	MG	1A	3304	1/1	0.95	0.23	56,56,56,56	0
58	MG	1A	3373	1/1	0.95	0.07	37,37,37,37	0
58	MG	1A	3124	1/1	0.95	0.27	32,32,32,32	0
58	MG	1A	3183	1/1	0.95	0.14	67,67,67,67	0
58	MG	1A	4022	1/1	0.95	0.07	49,49,49,49	0
58	MG	1A	3307	1/1	0.95	0.09	57,57,57,57	0
58	MG	1A	3128	1/1	0.95	0.11	33,33,33,33	0
58	MG	2A	3677	1/1	0.95	0.11	54,54,54,54	0
58	MG	1A	4031	1/1	0.95	0.12	38,38,38,38	0
58	MG	1A	3826	1/1	0.95	0.06	33,33,33,33	0
58	MG	2A	3336	1/1	0.95	0.17	59,59,59,59	0
58	MG	1A	3309	1/1	0.95	0.13	45,45,45,45	0
58	MG	1A	3828	1/1	0.95	0.12	33,33,33,33	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1624	1/1	0.95	0.27	54,54,54,54	0
58	MG	2a	1726	1/1	0.95	0.25	63,63,63,63	0
58	MG	2a	1727	1/1	0.95	0.17	62,62,62,62	0
58	MG	1A	4036	1/1	0.95	0.06	37,37,37,37	0
58	MG	2A	3342	1/1	0.95	0.11	55,55,55,55	0
58	MG	2A	3343	1/1	0.95	0.20	52,52,52,52	0
58	MG	2A	3688	1/1	0.95	0.06	69,69,69,69	0
58	MG	2A	3050	1/1	0.95	0.11	47,47,47,47	0
58	MG	1A	3632	1/1	0.95	0.06	30,30,30,30	0
58	MG	1A	3088	1/1	0.95	0.09	38,38,38,38	0
58	MG	1A	3835	1/1	0.95	0.09	51,51,51,51	0
58	MG	2A	3693	1/1	0.95	0.07	51,51,51,51	0
58	MG	1A	3636	1/1	0.95	0.06	20,20,20,20	0
58	MG	1A	3090	1/1	0.95	0.08	39,39,39,39	0
58	MG	1a	1634	1/1	0.95	0.28	74,74,74,74	0
58	MG	2A	3697	1/1	0.95	0.27	61,61,61,61	0
58	MG	2A	3698	1/1	0.95	0.11	55,55,55,55	0
58	MG	2A	3699	1/1	0.95	0.12	44,44,44,44	0
58	MG	1A	3484	1/1	0.95	0.22	52,52,52,52	0
58	MG	1A	4048	1/1	0.95	0.11	53,53,53,53	0
58	MG	1A	3389	1/1	0.95	0.28	46,46,46,46	0
58	MG	2a	1746	1/1	0.95	0.17	63,63,63,63	0
58	MG	1A	4050	1/1	0.95	0.06	39,39,39,39	0
58	MG	1a	1640	1/1	0.95	0.17	56,56,56,56	0
58	MG	1A	3091	1/1	0.95	0.10	36,36,36,36	0
58	MG	1A	3315	1/1	0.95	0.06	26,26,26,26	0
58	MG	2A	3068	1/1	0.95	0.18	52,52,52,52	0
58	MG	2A	3070	1/1	0.95	0.05	34,34,34,34	0
58	MG	2A	3711	1/1	0.95	0.10	54,54,54,54	0
58	MG	2A	3712	1/1	0.95	0.08	48,48,48,48	0
58	MG	2A	3714	1/1	0.95	0.08	40,40,40,40	0
58	MG	2A	3072	1/1	0.95	0.10	46,46,46,46	0
58	MG	2A	3718	1/1	0.95	0.15	58,58,58,58	0
58	MG	1A	3843	1/1	0.95	0.07	40,40,40,40	0
58	MG	1A	3644	1/1	0.95	0.06	61,61,61,61	0
58	MG	2a	1763	1/1	0.95	0.15	55,55,55,55	0
58	MG	2a	1764	1/1	0.95	0.09	51,51,51,51	0
58	MG	2A	3076	1/1	0.95	0.10	48,48,48,48	0
58	MG	1a	1650	1/1	0.95	0.10	50,50,50,50	0
58	MG	1A	4058	1/1	0.95	0.09	43,43,43,43	0
58	MG	1a	1652	1/1	0.95	0.19	56,56,56,56	0
58	MG	2a	1769	1/1	0.95	0.07	55,55,55,55	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3082	1/1	0.95	0.07	44,44,44,44	0
58	MG	1A	3256	1/1	0.95	0.07	39,39,39,39	0
58	MG	1A	3495	1/1	0.95	0.23	45,45,45,45	0
58	MG	1A	3648	1/1	0.95	0.06	26,26,26,26	0
58	MG	1A	3649	1/1	0.95	0.05	29,29,29,29	0
58	MG	2a	1777	1/1	0.95	0.14	64,64,64,64	0
58	MG	1A	3137	1/1	0.95	0.33	34,34,34,34	0
58	MG	1A	3499	1/1	0.95	0.13	57,57,57,57	0
58	MG	2a	1783	1/1	0.95	0.19	58,58,58,58	0
58	MG	1A	3858	1/1	0.95	0.10	36,36,36,36	0
58	MG	2A	3094	1/1	0.95	0.14	52,52,52,52	0
58	MG	1A	3092	1/1	0.95	0.10	47,47,47,47	0
58	MG	1A	3006	1/1	0.95	0.11	40,40,40,40	0
58	MG	2A	3099	1/1	0.95	0.11	55,55,55,55	0
58	MG	1A	3861	1/1	0.95	0.06	45,45,45,45	0
58	MG	2A	3101	1/1	0.95	0.23	59,59,59,59	0
58	MG	1a	1665	1/1	0.95	0.21	56,56,56,56	0
58	MG	1A	3399	1/1	0.95	0.13	40,40,40,40	0
58	MG	2A	3104	1/1	0.95	0.10	34,34,34,34	0
58	MG	1A	3657	1/1	0.95	0.06	31,31,31,31	0
58	MG	2A	3747	1/1	0.95	0.10	53,53,53,53	0
58	MG	1A	3148	1/1	0.95	0.18	43,43,43,43	0
58	MG	1A	3327	1/1	0.95	0.23	48,48,48,48	0
58	MG	2A	3108	1/1	0.95	0.11	62,62,62,62	0
58	MG	1A	3664	1/1	0.95	0.09	46,46,46,46	0
58	MG	2A	3111	1/1	0.95	0.12	51,51,51,51	0
58	MG	1A	3328	1/1	0.95	0.21	52,52,52,52	0
58	MG	2a	1804	1/1	0.95	0.24	53,53,53,53	0
58	MG	1a	1673	1/1	0.95	0.14	48,48,48,48	0
58	MG	2A	3760	1/1	0.95	0.07	51,51,51,51	0
58	MG	1A	3206	1/1	0.95	0.07	33,33,33,33	0
58	MG	2a	1809	1/1	0.95	0.18	63,63,63,63	0
58	MG	2A	3399	1/1	0.95	0.17	39,39,39,39	0
58	MG	2A	3400	1/1	0.95	0.10	39,39,39,39	0
58	MG	1A	4087	1/1	0.95	0.10	47,47,47,47	0
58	MG	2A	3403	1/1	0.95	0.19	49,49,49,49	0
58	MG	2A	3120	1/1	0.95	0.08	42,42,42,42	0
58	MG	2A	3123	1/1	0.95	0.08	48,48,48,48	0
58	MG	2A	3409	1/1	0.95	0.09	37,37,37,37	0
58	MG	1A	3024	1/1	0.95	0.06	38,38,38,38	0
58	MG	1A	4090	1/1	0.95	0.13	58,58,58,58	0
58	MG	1a	1678	1/1	0.95	0.08	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3671	1/1	0.95	0.09	40,40,40,40	0
58	MG	2a	1823	1/1	0.95	0.18	59,59,59,59	0
58	MG	1A	3100	1/1	0.95	0.17	49,49,49,49	0
58	MG	1A	3333	1/1	0.95	0.06	48,48,48,48	0
58	MG	1A	3873	1/1	0.95	0.19	34,34,34,34	0
58	MG	2a	1827	1/1	0.95	0.14	63,63,63,63	0
58	MG	1A	3520	1/1	0.95	0.09	45,45,45,45	0
58	MG	1B	201	1/1	0.95	0.06	42,42,42,42	0
58	MG	2a	1830	1/1	0.95	0.11	65,65,65,65	0
58	MG	1A	3521	1/1	0.95	0.07	44,44,44,44	0
58	MG	2A	3421	1/1	0.95	0.17	47,47,47,47	0
58	MG	1A	3334	1/1	0.95	0.11	56,56,56,56	0
58	MG	2A	3793	1/1	0.95	0.07	60,60,60,60	0
58	MG	2A	3135	1/1	0.95	0.10	57,57,57,57	0
58	MG	1A	3152	1/1	0.95	0.23	40,40,40,40	0
58	MG	2A	3797	1/1	0.95	0.13	65,65,65,65	0
58	MG	2A	3798	1/1	0.95	0.06	43,43,43,43	0
58	MG	1A	3336	1/1	0.95	0.06	57,57,57,57	0
58	MG	1A	3691	1/1	0.95	0.08	17,17,17,17	0
58	MG	1A	3527	1/1	0.95	0.11	44,44,44,44	0
58	MG	2l	204	1/1	0.95	0.05	61,61,61,61	0
58	MG	2A	3803	1/1	0.95	0.06	41,41,41,41	0
58	MG	1A	3528	1/1	0.95	0.19	49,49,49,49	0
58	MG	2q	202	1/1	0.95	0.09	65,65,65,65	0
58	MG	1A	3698	1/1	0.95	0.06	28,28,28,28	0
58	MG	1A	3529	1/1	0.95	0.21	38,38,38,38	0
58	MG	1A	3700	1/1	0.95	0.07	28,28,28,28	0
58	MG	1B	221	1/1	0.95	0.10	60,60,60,60	0
58	MG	1A	3701	1/1	0.95	0.04	25,25,25,25	0
58	MG	2A	3155	1/1	0.95	0.16	57,57,57,57	0
58	MG	1A	3055	1/1	0.95	0.14	37,37,37,37	0
58	MG	1A	3422	1/1	0.95	0.10	40,40,40,40	0
58	MG	2A	3440	1/1	0.95	0.07	47,47,47,47	0
58	MG	2x	104	1/1	0.95	0.26	55,55,55,55	0
58	MG	1A	3709	1/1	0.95	0.14	37,37,37,37	0
58	MG	2A	3442	1/1	0.95	0.06	54,54,54,54	0
58	MG	2A	3823	1/1	0.95	0.09	60,60,60,60	0
58	MG	1A	3710	1/1	0.95	0.08	42,42,42,42	0
58	MG	1A	4095	1/1	0.96	0.16	37,37,37,37	0
58	MG	1A	3579	1/1	0.96	0.07	34,34,34,34	0
58	MG	2A	3562	1/1	0.96	0.11	45,45,45,45	0
58	MG	1A	3381	1/1	0.96	0.17	35,35,35,35	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1644	1/1	0.96	0.18	38,38,38,38	0
58	MG	1A	3904	1/1	0.96	0.11	53,53,53,53	0
58	MG	1A	3320	1/1	0.96	0.16	46,46,46,46	0
58	MG	1A	3742	1/1	0.96	0.05	54,54,54,54	0
58	MG	1A	3067	1/1	0.96	0.13	45,45,45,45	0
58	MG	1A	3469	1/1	0.96	0.10	40,40,40,40	0
58	MG	1A	3914	1/1	0.96	0.06	27,27,27,27	0
58	MG	1B	209	1/1	0.96	0.13	48,48,48,48	0
58	MG	1A	3138	1/1	0.96	0.10	41,41,41,41	0
58	MG	2A	3049	1/1	0.96	0.12	33,33,33,33	0
58	MG	1A	3916	1/1	0.96	0.11	49,49,49,49	0
58	MG	1A	3917	1/1	0.96	0.06	39,39,39,39	0
58	MG	1A	3471	1/1	0.96	0.20	51,51,51,51	0
58	MG	2A	3579	1/1	0.96	0.11	55,55,55,55	0
58	MG	2A	3053	1/1	0.96	0.12	66,66,66,66	0
58	MG	2A	3305	1/1	0.96	0.31	60,60,60,60	0
58	MG	1A	3323	1/1	0.96	0.13	51,51,51,51	0
58	MG	1a	1660	1/1	0.96	0.12	67,67,67,67	0
58	MG	2A	3056	1/1	0.96	0.09	48,48,48,48	0
58	MG	1B	219	1/1	0.96	0.09	38,38,38,38	0
58	MG	2P	203	1/1	0.96	0.08	55,55,55,55	0
58	MG	1A	3210	1/1	0.96	0.11	41,41,41,41	0
58	MG	2A	3059	1/1	0.96	0.15	49,49,49,49	0
58	MG	1A	3754	1/1	0.96	0.09	44,44,44,44	0
58	MG	1A	3264	1/1	0.96	0.21	45,45,45,45	0
58	MG	1a	1666	1/1	0.96	0.23	63,63,63,63	0
58	MG	1A	3476	1/1	0.96	0.11	41,41,41,41	0
58	MG	2A	3064	1/1	0.96	0.10	68,68,68,68	0
58	MG	1A	3759	1/1	0.96	0.08	43,43,43,43	0
58	MG	2V	201	1/1	0.96	0.23	52,52,52,52	0
58	MG	2A	3318	1/1	0.96	0.07	51,51,51,51	0
58	MG	1A	3169	1/1	0.96	0.06	38,38,38,38	0
58	MG	1A	3044	1/1	0.96	0.05	30,30,30,30	0
58	MG	1A	3215	1/1	0.96	0.15	40,40,40,40	0
58	MG	2A	3069	1/1	0.96	0.06	43,43,43,43	0
58	MG	1A	3395	1/1	0.96	0.25	43,43,43,43	0
58	MG	2A	3071	1/1	0.96	0.13	50,50,50,50	0
58	MG	23	102	1/1	0.96	0.07	57,57,57,57	0
58	MG	23	103	1/1	0.96	0.08	59,59,59,59	0
58	MG	1A	3482	1/1	0.96	0.09	46,46,46,46	0
58	MG	1A	3330	1/1	0.96	0.13	43,43,43,43	0
58	MG	2A	3074	1/1	0.96	0.10	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	27	102	1/1	0.96	0.07	53,53,53,53	0
58	MG	1A	3269	1/1	0.96	0.12	44,44,44,44	0
58	MG	2A	3330	1/1	0.96	0.10	43,43,43,43	0
58	MG	1A	3600	1/1	0.96	0.11	37,37,37,37	0
58	MG	1B	236	1/1	0.96	0.10	44,44,44,44	0
58	MG	1D	302	1/1	0.96	0.18	36,36,36,36	0
58	MG	2a	1604	1/1	0.96	0.10	52,52,52,52	0
58	MG	1D	308	1/1	0.96	0.06	37,37,37,37	0
58	MG	1D	310	1/1	0.96	0.27	27,27,27,27	0
58	MG	1D	311	1/1	0.96	0.08	42,42,42,42	0
58	MG	1A	3216	1/1	0.96	0.10	40,40,40,40	0
58	MG	2A	3618	1/1	0.96	0.15	51,51,51,51	0
58	MG	2A	3086	1/1	0.96	0.07	47,47,47,47	0
58	MG	2A	3620	1/1	0.96	0.11	51,51,51,51	0
58	MG	2A	3087	1/1	0.96	0.06	44,44,44,44	0
58	MG	2a	1613	1/1	0.96	0.10	46,46,46,46	0
58	MG	1E	301	1/1	0.96	0.28	37,37,37,37	0
58	MG	1A	3602	1/1	0.96	0.07	38,38,38,38	0
58	MG	1A	3949	1/1	0.96	0.06	49,49,49,49	0
58	MG	1E	306	1/1	0.96	0.14	29,29,29,29	0
58	MG	2A	3628	1/1	0.96	0.18	54,54,54,54	0
58	MG	2a	1620	1/1	0.96	0.07	62,62,62,62	0
58	MG	1A	3603	1/1	0.96	0.08	24,24,24,24	0
58	MG	1A	3217	1/1	0.96	0.13	38,38,38,38	0
58	MG	2A	3095	1/1	0.96	0.13	50,50,50,50	0
58	MG	2A	3096	1/1	0.96	0.07	31,31,31,31	0
58	MG	1A	3176	1/1	0.96	0.04	26,26,26,26	0
58	MG	1A	3220	1/1	0.96	0.07	45,45,45,45	0
58	MG	1A	3786	1/1	0.96	0.08	43,43,43,43	0
58	MG	2A	3640	1/1	0.96	0.10	32,32,32,32	0
58	MG	1A	3609	1/1	0.96	0.06	41,41,41,41	0
58	MG	1A	3790	1/1	0.96	0.06	34,34,34,34	0
58	MG	1A	3490	1/1	0.96	0.06	47,47,47,47	0
58	MG	1F	301	1/1	0.96	0.15	40,40,40,40	0
58	MG	1A	3792	1/1	0.96	0.09	58,58,58,58	0
58	MG	1F	307	1/1	0.96	0.15	25,25,25,25	0
58	MG	1A	3493	1/1	0.96	0.18	36,36,36,36	0
58	MG	1A	3619	1/1	0.96	0.07	30,30,30,30	0
58	MG	2A	3360	1/1	0.96	0.10	46,46,46,46	0
58	MG	1A	3963	1/1	0.96	0.08	47,47,47,47	0
58	MG	2A	3109	1/1	0.96	0.16	50,50,50,50	0
58	MG	2A	3655	1/1	0.96	0.10	58,58,58,58	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3656	1/1	0.96	0.07	38,38,38,38	0
58	MG	1A	3177	1/1	0.96	0.04	22,22,22,22	0
58	MG	2a	1643	1/1	0.96	0.28	63,63,63,63	0
58	MG	1A	3408	1/1	0.96	0.09	46,46,46,46	0
58	MG	2a	1645	1/1	0.96	0.08	66,66,66,66	0
58	MG	1A	3497	1/1	0.96	0.04	28,28,28,28	0
58	MG	1A	3498	1/1	0.96	0.07	39,39,39,39	0
58	MG	1A	3627	1/1	0.96	0.05	21,21,21,21	0
58	MG	2A	3118	1/1	0.96	0.17	48,48,48,48	0
58	MG	1A	3629	1/1	0.96	0.07	31,31,31,31	0
58	MG	1A	3409	1/1	0.96	0.06	35,35,35,35	0
58	MG	2A	3121	1/1	0.96	0.07	49,49,49,49	0
58	MG	2A	3122	1/1	0.96	0.09	69,69,69,69	0
58	MG	1A	3026	1/1	0.96	0.19	69,69,69,69	0
58	MG	1N	202	1/1	0.96	0.05	35,35,35,35	0
58	MG	1N	204	1/1	0.96	0.06	38,38,38,38	0
58	MG	1A	3973	1/1	0.96	0.05	59,59,59,59	0
58	MG	1a	1716	1/1	0.96	0.13	67,67,67,67	0
58	MG	2A	3674	1/1	0.96	0.12	53,53,53,53	0
58	MG	1A	3501	1/1	0.96	0.10	46,46,46,46	0
58	MG	1A	3976	1/1	0.96	0.09	58,58,58,58	0
58	MG	2A	3382	1/1	0.96	0.08	59,59,59,59	0
58	MG	1P	202	1/1	0.96	0.17	28,28,28,28	0
58	MG	1A	3412	1/1	0.96	0.15	44,44,44,44	0
58	MG	1A	3413	1/1	0.96	0.05	50,50,50,50	0
58	MG	1A	3015	1/1	0.96	0.10	49,49,49,49	0
58	MG	2a	1667	1/1	0.96	0.12	44,44,44,44	0
58	MG	1A	3415	1/1	0.96	0.33	44,44,44,44	0
58	MG	2a	1669	1/1	0.96	0.07	56,56,56,56	0
58	MG	1a	1727	1/1	0.96	0.11	33,33,33,33	0
58	MG	1a	1729	1/1	0.96	0.08	51,51,51,51	0
58	MG	1A	3079	1/1	0.96	0.07	57,57,57,57	0
58	MG	2A	3138	1/1	0.96	0.09	40,40,40,40	0
58	MG	1A	3509	1/1	0.96	0.14	37,37,37,37	0
58	MG	1A	3511	1/1	0.96	0.23	26,26,26,26	0
58	MG	2A	3144	1/1	0.96	0.11	47,47,47,47	0
58	MG	1A	3514	1/1	0.96	0.07	38,38,38,38	0
58	MG	1A	3988	1/1	0.96	0.07	43,43,43,43	0
58	MG	1A	3515	1/1	0.96	0.06	49,49,49,49	0
58	MG	1A	3340	1/1	0.96	0.18	48,48,48,48	0
58	MG	2A	3150	1/1	0.96	0.09	61,61,61,61	0
58	MG	2A	3402	1/1	0.96	0.18	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3994	1/1	0.96	0.09	27,27,27,27	0
58	MG	1A	3341	1/1	0.96	0.18	36,36,36,36	0
58	MG	2A	3405	1/1	0.96	0.13	48,48,48,48	0
58	MG	1A	3996	1/1	0.96	0.06	34,34,34,34	0
58	MG	2A	3408	1/1	0.96	0.22	51,51,51,51	0
58	MG	1A	3150	1/1	0.96	0.21	37,37,37,37	0
58	MG	1A	3231	1/1	0.96	0.05	50,50,50,50	0
58	MG	1a	1745	1/1	0.96	0.12	44,44,44,44	0
58	MG	2A	3160	1/1	0.96	0.08	63,63,63,63	0
58	MG	1a	1746	1/1	0.96	0.14	47,47,47,47	0
58	MG	1A	3999	1/1	0.96	0.06	61,61,61,61	0
58	MG	1A	3834	1/1	0.96	0.09	48,48,48,48	0
58	MG	1V	202	1/1	0.96	0.23	28,28,28,28	0
58	MG	1V	206	1/1	0.96	0.17	43,43,43,43	0
58	MG	2A	3713	1/1	0.96	0.15	59,59,59,59	0
58	MG	1A	3347	1/1	0.96	0.08	34,34,34,34	0
58	MG	2A	3419	1/1	0.96	0.22	45,45,45,45	0
58	MG	1A	4004	1/1	0.96	0.06	35,35,35,35	0
58	MG	1a	1756	1/1	0.96	0.05	47,47,47,47	0
58	MG	1A	4005	1/1	0.96	0.07	25,25,25,25	0
58	MG	1a	1758	1/1	0.96	0.12	63,63,63,63	0
58	MG	1A	3426	1/1	0.96	0.17	57,57,57,57	0
58	MG	1A	4012	1/1	0.96	0.15	68,68,68,68	0
58	MG	1X	101	1/1	0.96	0.34	34,34,34,34	0
58	MG	1X	102	1/1	0.96	0.09	39,39,39,39	0
58	MG	1A	3290	1/1	0.96	0.13	36,36,36,36	0
58	MG	1A	3291	1/1	0.96	0.07	37,37,37,37	0
58	MG	2A	3180	1/1	0.96	0.05	59,59,59,59	0
58	MG	1A	4017	1/1	0.96	0.06	51,51,51,51	0
58	MG	1A	3659	1/1	0.96	0.08	28,28,28,28	0
58	MG	2A	3183	1/1	0.96	0.11	57,57,57,57	0
58	MG	10	101	1/1	0.96	0.08	34,34,34,34	0
58	MG	2A	3186	1/1	0.96	0.14	67,67,67,67	0
58	MG	2A	3436	1/1	0.96	0.12	41,41,41,41	0
58	MG	10	102	1/1	0.96	0.10	44,44,44,44	0
58	MG	10	104	1/1	0.96	0.12	36,36,36,36	0
58	MG	1A	3660	1/1	0.96	0.05	29,29,29,29	0
58	MG	1A	3232	1/1	0.96	0.15	41,41,41,41	0
58	MG	2A	3443	1/1	0.96	0.12	58,58,58,58	0
58	MG	10	107	1/1	0.96	0.07	39,39,39,39	0
58	MG	2A	3445	1/1	0.96	0.11	52,52,52,52	0
58	MG	1A	3526	1/1	0.96	0.16	35,35,35,35	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1777	1/1	0.96	0.10	49,49,49,49	0
58	MG	1a	1778	1/1	0.96	0.06	46,46,46,46	0
58	MG	2A	3750	1/1	0.96	0.08	54,54,54,54	0
58	MG	1A	3430	1/1	0.96	0.05	42,42,42,42	0
58	MG	2A	3752	1/1	0.96	0.12	57,57,57,57	0
58	MG	1A	3846	1/1	0.96	0.11	44,44,44,44	0
58	MG	11	102	1/1	0.96	0.08	43,43,43,43	0
58	MG	11	103	1/1	0.96	0.06	48,48,48,48	0
58	MG	1A	4029	1/1	0.96	0.07	47,47,47,47	0
58	MG	2A	3202	1/1	0.96	0.14	50,50,50,50	0
58	MG	2A	3759	1/1	0.96	0.14	56,56,56,56	0
58	MG	2A	3203	1/1	0.96	0.12	55,55,55,55	0
58	MG	2A	3458	1/1	0.96	0.07	57,57,57,57	0
58	MG	1A	3431	1/1	0.96	0.10	39,39,39,39	0
58	MG	2A	3764	1/1	0.96	0.09	57,57,57,57	0
58	MG	1A	3351	1/1	0.96	0.11	55,55,55,55	0
58	MG	2A	3767	1/1	0.96	0.12	59,59,59,59	0
58	MG	1A	3530	1/1	0.96	0.12	39,39,39,39	0
58	MG	2A	3769	1/1	0.96	0.07	48,48,48,48	0
58	MG	1A	4033	1/1	0.96	0.07	29,29,29,29	0
58	MG	2A	3771	1/1	0.96	0.05	69,69,69,69	0
58	MG	1A	3049	1/1	0.96	0.05	23,23,23,23	0
58	MG	2a	1753	1/1	0.96	0.07	56,56,56,56	0
58	MG	2A	3209	1/1	0.96	0.08	47,47,47,47	0
58	MG	13	105	1/1	0.96	0.05	31,31,31,31	0
58	MG	1A	3238	1/1	0.96	0.10	36,36,36,36	0
58	MG	2A	3777	1/1	0.96	0.06	48,48,48,48	0
58	MG	15	101	1/1	0.96	0.30	35,35,35,35	0
58	MG	15	102	1/1	0.96	0.14	33,33,33,33	0
58	MG	1A	3534	1/1	0.96	0.09	25,25,25,25	0
58	MG	1A	3857	1/1	0.96	0.11	22,22,22,22	0
58	MG	1A	3127	1/1	0.96	0.15	45,45,45,45	0
58	MG	1A	3153	1/1	0.96	0.07	30,30,30,30	0
58	MG	2A	3784	1/1	0.96	0.11	48,48,48,48	0
58	MG	16	102	1/1	0.96	0.06	54,54,54,54	0
58	MG	2A	3221	1/1	0.96	0.20	60,60,60,60	0
58	MG	2A	3787	1/1	0.96	0.10	52,52,52,52	0
58	MG	2A	3479	1/1	0.96	0.10	43,43,43,43	0
58	MG	2A	3790	1/1	0.96	0.08	58,58,58,58	0
58	MG	2a	1771	1/1	0.96	0.10	63,63,63,63	0
58	MG	1A	3682	1/1	0.96	0.04	27,27,27,27	0
58	MG	17	104	1/1	0.96	0.06	32,32,32,32	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	17	105	1/1	0.96	0.07	28,28,28,28	0
58	MG	1a	1810	1/1	0.96	0.14	56,56,56,56	0
58	MG	17	106	1/1	0.96	0.11	54,54,54,54	0
58	MG	2A	3796	1/1	0.96	0.10	52,52,52,52	0
58	MG	2a	1780	1/1	0.96	0.10	56,56,56,56	0
58	MG	1A	3189	1/1	0.96	0.09	35,35,35,35	0
58	MG	2a	1782	1/1	0.96	0.11	56,56,56,56	0
58	MG	1A	3019	1/1	0.96	0.07	40,40,40,40	0
58	MG	2A	3799	1/1	0.96	0.07	47,47,47,47	0
58	MG	18	103	1/1	0.96	0.07	35,35,35,35	0
58	MG	2a	1786	1/1	0.96	0.08	54,54,54,54	0
58	MG	1A	3541	1/1	0.96	0.06	40,40,40,40	0
58	MG	1A	3690	1/1	0.96	0.06	35,35,35,35	0
58	MG	2A	3491	1/1	0.96	0.13	49,49,49,49	0
58	MG	1m	3001	1/1	0.96	0.05	59,59,59,59	0
58	MG	1A	3103	1/1	0.96	0.12	28,28,28,28	0
58	MG	1A	3161	1/1	0.96	0.37	35,35,35,35	0
58	MG	2a	1793	1/1	0.96	0.06	65,65,65,65	0
58	MG	1A	3694	1/1	0.96	0.08	69,69,69,69	0
58	MG	2A	3499	1/1	0.96	0.07	63,63,63,63	0
58	MG	1A	3246	1/1	0.96	0.05	46,46,46,46	0
58	MG	1A	3447	1/1	0.96	0.21	35,35,35,35	0
58	MG	1A	3196	1/1	0.96	0.04	30,30,30,30	0
58	MG	1A	3365	1/1	0.96	0.09	40,40,40,40	0
58	MG	1A	3197	1/1	0.96	0.21	32,32,32,32	0
58	MG	1A	4063	1/1	0.96	0.05	36,36,36,36	0
58	MG	2A	3506	1/1	0.96	0.10	28,28,28,28	0
58	MG	2A	3821	1/1	0.96	0.08	51,51,51,51	0
58	MG	2A	3822	1/1	0.96	0.10	47,47,47,47	0
58	MG	1A	3703	1/1	0.96	0.06	17,17,17,17	0
58	MG	2A	3824	1/1	0.96	0.07	46,46,46,46	0
58	MG	1x	103	1/1	0.96	0.18	53,53,53,53	0
58	MG	1A	3039	1/1	0.96	0.07	49,49,49,49	0
58	MG	1A	3009	1/1	0.96	0.07	28,28,28,28	0
58	MG	2A	3512	1/1	0.96	0.09	64,64,64,64	0
58	MG	1a	1612	1/1	0.96	0.10	26,26,26,26	0
58	MG	2a	1813	1/1	0.96	0.05	63,63,63,63	0
58	MG	2A	3832	1/1	0.96	0.15	59,59,59,59	0
58	MG	1A	4070	1/1	0.96	0.06	32,32,32,32	0
58	MG	1x	108	1/1	0.96	0.06	26,26,26,26	0
58	MG	1A	3311	1/1	0.96	0.21	44,44,44,44	0
58	MG	1A	3879	1/1	0.96	0.06	25,25,25,25	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3838	1/1	0.96	0.07	40,40,40,40	0
58	MG	2a	1820	1/1	0.96	0.14	61,61,61,61	0
58	MG	1A	3562	1/1	0.96	0.08	57,57,57,57	0
58	MG	1a	1617	1/1	0.96	0.05	52,52,52,52	0
58	MG	2A	3842	1/1	0.96	0.07	46,46,46,46	0
58	MG	1A	3371	1/1	0.96	0.29	47,47,47,47	0
58	MG	2A	3844	1/1	0.96	0.09	45,45,45,45	0
58	MG	1A	3255	1/1	0.96	0.09	22,22,22,22	0
58	MG	2A	3523	1/1	0.96	0.05	47,47,47,47	0
58	MG	2A	3259	1/1	0.96	0.09	53,53,53,53	0
58	MG	2A	3006	1/1	0.96	0.23	55,55,55,55	0
58	MG	1A	3884	1/1	0.96	0.12	30,30,30,30	0
58	MG	1A	3203	1/1	0.96	0.14	21,21,21,21	0
58	MG	2A	3009	1/1	0.96	0.07	52,52,52,52	0
58	MG	2A	3010	1/1	0.96	0.09	61,61,61,61	0
58	MG	1A	3314	1/1	0.96	0.17	53,53,53,53	0
58	MG	1A	3136	1/1	0.96	0.14	22,22,22,22	0
58	MG	2A	3858	1/1	0.96	0.08	53,53,53,53	0
58	MG	1A	3717	1/1	0.96	0.07	49,49,49,49	0
58	MG	2A	3533	1/1	0.96	0.20	60,60,60,60	0
58	MG	1A	3719	1/1	0.96	0.06	47,47,47,47	0
58	MG	2A	3536	1/1	0.96	0.09	55,55,55,55	0
58	MG	2A	3863	1/1	0.96	0.08	58,58,58,58	0
58	MG	2A	3017	1/1	0.96	0.07	40,40,40,40	0
58	MG	2A	3018	1/1	0.96	0.17	49,49,49,49	0
58	MG	1A	4085	1/1	0.96	0.11	39,39,39,39	0
58	MG	1A	3572	1/1	0.96	0.05	35,35,35,35	0
58	MG	1A	3316	1/1	0.96	0.21	31,31,31,31	0
58	MG	2A	3278	1/1	0.96	0.08	60,60,60,60	0
58	MG	2A	3543	1/1	0.96	0.07	52,52,52,52	0
58	MG	2A	3544	1/1	0.96	0.06	37,37,37,37	0
58	MG	1A	4088	1/1	0.96	0.06	47,47,47,47	0
58	MG	1A	3725	1/1	0.96	0.06	33,33,33,33	0
58	MG	1A	3574	1/1	0.96	0.11	40,40,40,40	0
58	MG	1A	3575	1/1	0.96	0.12	45,45,45,45	0
58	MG	1A	3729	1/1	0.96	0.08	63,63,63,63	0
58	MG	2A	3031	1/1	0.96	0.08	48,48,48,48	0
58	MG	1A	3165	1/1	0.96	0.16	35,35,35,35	0
58	MG	2A	3556	1/1	0.96	0.06	41,41,41,41	0
58	MG	2A	3557	1/1	0.96	0.07	36,36,36,36	0
58	MG	2A	3558	1/1	0.96	0.08	62,62,62,62	0
59	K	2A	3448	1/1	0.96	0.07	65,65,65,65	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
60	ZN	14	102	1/1	0.96	0.10	112,112,112,112	0
58	MG	1A	3398	1/1	0.97	0.09	31,31,31,31	0
58	MG	1A	3071	1/1	0.97	0.15	28,28,28,28	0
58	MG	1A	3400	1/1	0.97	0.06	36,36,36,36	0
58	MG	1B	207	1/1	0.97	0.15	46,46,46,46	0
58	MG	2A	3326	1/1	0.97	0.07	36,36,36,36	0
58	MG	1A	3204	1/1	0.97	0.10	27,27,27,27	0
58	MG	1A	3263	1/1	0.97	0.23	46,46,46,46	0
58	MG	2Q	202	1/1	0.97	0.06	45,45,45,45	0
58	MG	1A	3730	1/1	0.97	0.07	47,47,47,47	0
58	MG	1A	3005	1/1	0.97	0.05	26,26,26,26	0
58	MG	1A	3901	1/1	0.97	0.10	33,33,33,33	0
58	MG	2A	3611	1/1	0.97	0.08	36,36,36,36	0
58	MG	1a	1662	1/1	0.97	0.05	47,47,47,47	0
58	MG	1A	3107	1/1	0.97	0.21	31,31,31,31	0
58	MG	2A	3614	1/1	0.97	0.08	45,45,45,45	0
58	MG	1B	214	1/1	0.97	0.19	51,51,51,51	0
58	MG	2V	202	1/1	0.97	0.05	51,51,51,51	0
58	MG	1A	3406	1/1	0.97	0.09	42,42,42,42	0
58	MG	2X	101	1/1	0.97	0.07	64,64,64,64	0
58	MG	1B	218	1/1	0.97	0.05	40,40,40,40	0
58	MG	1A	3034	1/1	0.97	0.06	45,45,45,45	0
58	MG	20	101	1/1	0.97	0.16	64,64,64,64	0
58	MG	1B	220	1/1	0.97	0.08	31,31,31,31	0
58	MG	2A	3339	1/1	0.97	0.05	51,51,51,51	0
58	MG	2A	3077	1/1	0.97	0.09	37,37,37,37	0
58	MG	2A	3622	1/1	0.97	0.10	51,51,51,51	0
58	MG	1A	3738	1/1	0.97	0.09	58,58,58,58	0
58	MG	2A	3079	1/1	0.97	0.07	24,24,24,24	0
58	MG	1A	3739	1/1	0.97	0.07	37,37,37,37	0
58	MG	2A	3626	1/1	0.97	0.07	41,41,41,41	0
58	MG	25	103	1/1	0.97	0.08	47,47,47,47	0
58	MG	1A	3908	1/1	0.97	0.10	33,33,33,33	0
58	MG	27	101	1/1	0.97	0.16	51,51,51,51	0
58	MG	1A	3741	1/1	0.97	0.07	47,47,47,47	0
58	MG	2A	3629	1/1	0.97	0.07	37,37,37,37	0
58	MG	1A	3910	1/1	0.97	0.14	32,32,32,32	0
58	MG	2A	3084	1/1	0.97	0.06	43,43,43,43	0
58	MG	2A	3633	1/1	0.97	0.08	52,52,52,52	0
58	MG	1A	3912	1/1	0.97	0.03	26,26,26,26	0
58	MG	1B	227	1/1	0.97	0.06	39,39,39,39	0
58	MG	1A	3154	1/1	0.97	0.10	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3088	1/1	0.97	0.06	50,50,50,50	0
58	MG	1A	3268	1/1	0.97	0.23	40,40,40,40	0
58	MG	1A	3745	1/1	0.97	0.06	42,42,42,42	0
58	MG	1A	3491	1/1	0.97	0.12	46,46,46,46	0
58	MG	1A	3492	1/1	0.97	0.10	36,36,36,36	0
58	MG	1A	3209	1/1	0.97	0.06	36,36,36,36	0
58	MG	1a	1682	1/1	0.97	0.05	48,48,48,48	0
58	MG	2A	3645	1/1	0.97	0.06	51,51,51,51	0
58	MG	1A	3494	1/1	0.97	0.09	45,45,45,45	0
58	MG	2a	1615	1/1	0.97	0.07	67,67,67,67	0
58	MG	1A	3112	1/1	0.97	0.10	32,32,32,32	0
58	MG	1a	1685	1/1	0.97	0.12	55,55,55,55	0
58	MG	1A	3753	1/1	0.97	0.04	38,38,38,38	0
58	MG	1D	303	1/1	0.97	0.14	40,40,40,40	0
58	MG	1A	3113	1/1	0.97	0.08	33,33,33,33	0
58	MG	1D	309	1/1	0.97	0.04	32,32,32,32	0
58	MG	1A	3755	1/1	0.97	0.07	32,32,32,32	0
58	MG	1A	3756	1/1	0.97	0.07	33,33,33,33	0
58	MG	1A	3925	1/1	0.97	0.07	49,49,49,49	0
58	MG	1D	313	1/1	0.97	0.10	31,31,31,31	0
58	MG	1A	3010	1/1	0.97	0.07	34,34,34,34	0
58	MG	1A	3273	1/1	0.97	0.05	44,44,44,44	0
58	MG	1A	3928	1/1	0.97	0.04	17,17,17,17	0
58	MG	1A	3932	1/1	0.97	0.04	33,33,33,33	0
58	MG	1A	3933	1/1	0.97	0.05	34,34,34,34	0
58	MG	1A	3018	1/1	0.97	0.14	39,39,39,39	0
58	MG	1A	3417	1/1	0.97	0.10	37,37,37,37	0
58	MG	1A	3607	1/1	0.97	0.07	46,46,46,46	0
58	MG	1A	3342	1/1	0.97	0.22	37,37,37,37	0
58	MG	2A	3116	1/1	0.97	0.25	56,56,56,56	0
58	MG	1A	3276	1/1	0.97	0.09	29,29,29,29	0
58	MG	1A	3765	1/1	0.97	0.06	29,29,29,29	0
58	MG	1A	3766	1/1	0.97	0.07	39,39,39,39	0
58	MG	1A	3503	1/1	0.97	0.05	36,36,36,36	0
58	MG	1F	302	1/1	0.97	0.18	32,32,32,32	0
58	MG	1A	3947	1/1	0.97	0.07	57,57,57,57	0
58	MG	1a	1709	1/1	0.97	0.13	45,45,45,45	0
58	MG	1F	304	1/1	0.97	0.07	51,51,51,51	0
58	MG	1A	3948	1/1	0.97	0.09	47,47,47,47	0
58	MG	1a	1712	1/1	0.97	0.20	55,55,55,55	0
58	MG	1F	308	1/1	0.97	0.17	29,29,29,29	0
58	MG	2A	3682	1/1	0.97	0.13	35,35,35,35	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3616	1/1	0.97	0.04	36,36,36,36	0
58	MG	1A	3345	1/1	0.97	0.16	33,33,33,33	0
58	MG	1A	3770	1/1	0.97	0.13	25,25,25,25	0
58	MG	1F	312	1/1	0.97	0.05	48,48,48,48	0
58	MG	1A	3952	1/1	0.97	0.07	55,55,55,55	0
58	MG	1a	1719	1/1	0.97	0.10	52,52,52,52	0
58	MG	1A	3771	1/1	0.97	0.05	23,23,23,23	0
58	MG	1G	202	1/1	0.97	0.20	50,50,50,50	0
58	MG	1a	1722	1/1	0.97	0.08	45,45,45,45	0
58	MG	1a	1723	1/1	0.97	0.06	44,44,44,44	0
58	MG	1A	3421	1/1	0.97	0.13	42,42,42,42	0
58	MG	1A	3773	1/1	0.97	0.04	45,45,45,45	0
58	MG	2A	3143	1/1	0.97	0.17	41,41,41,41	0
58	MG	1A	3277	1/1	0.97	0.32	44,44,44,44	0
58	MG	1A	3423	1/1	0.97	0.06	42,42,42,42	0
58	MG	1A	3424	1/1	0.97	0.10	43,43,43,43	0
58	MG	1A	3779	1/1	0.97	0.06	21,21,21,21	0
58	MG	1A	3780	1/1	0.97	0.06	29,29,29,29	0
58	MG	1A	3510	1/1	0.97	0.29	31,31,31,31	0
58	MG	1A	3782	1/1	0.97	0.06	41,41,41,41	0
58	MG	1A	3041	1/1	0.97	0.16	28,28,28,28	0
58	MG	1a	1735	1/1	0.97	0.10	45,45,45,45	0
58	MG	1O	203	1/1	0.97	0.07	52,52,52,52	0
58	MG	2a	1671	1/1	0.97	0.11	53,53,53,53	0
58	MG	1A	3784	1/1	0.97	0.05	17,17,17,17	0
58	MG	2A	3158	1/1	0.97	0.11	47,47,47,47	0
58	MG	1P	201	1/1	0.97	0.14	23,23,23,23	0
58	MG	1A	3628	1/1	0.97	0.07	53,53,53,53	0
58	MG	2a	1676	1/1	0.97	0.09	51,51,51,51	0
58	MG	1A	3513	1/1	0.97	0.10	24,24,24,24	0
58	MG	1P	205	1/1	0.97	0.04	33,33,33,33	0
58	MG	1A	3787	1/1	0.97	0.03	23,23,23,23	0
58	MG	2A	3715	1/1	0.97	0.10	50,50,50,50	0
58	MG	1Q	201	1/1	0.97	0.23	32,32,32,32	0
58	MG	1A	3082	1/1	0.97	0.21	32,32,32,32	0
58	MG	1A	3083	1/1	0.97	0.12	35,35,35,35	0
58	MG	1A	3633	1/1	0.97	0.05	20,20,20,20	0
58	MG	1a	1750	1/1	0.97	0.08	59,59,59,59	0
58	MG	1a	1751	1/1	0.97	0.05	54,54,54,54	0
58	MG	1A	3166	1/1	0.97	0.06	39,39,39,39	0
58	MG	1A	3122	1/1	0.97	0.12	29,29,29,29	0
58	MG	1A	3637	1/1	0.97	0.07	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3287	1/1	0.97	0.06	45,45,45,45	0
58	MG	1A	3797	1/1	0.97	0.07	16,16,16,16	0
58	MG	1A	3979	1/1	0.97	0.12	46,46,46,46	0
58	MG	1A	3123	1/1	0.97	0.12	35,35,35,35	0
58	MG	1T	201	1/1	0.97	0.12	46,46,46,46	0
58	MG	1A	3224	1/1	0.97	0.08	48,48,48,48	0
58	MG	1A	3084	1/1	0.97	0.14	32,32,32,32	0
58	MG	2a	1697	1/1	0.97	0.11	40,40,40,40	0
58	MG	1A	3802	1/1	0.97	0.05	40,40,40,40	0
58	MG	2A	3184	1/1	0.97	0.10	43,43,43,43	0
58	MG	1A	3642	1/1	0.97	0.04	15,15,15,15	0
58	MG	1A	3804	1/1	0.97	0.05	23,23,23,23	0
58	MG	1a	1766	1/1	0.97	0.08	66,66,66,66	0
58	MG	2A	3189	1/1	0.97	0.06	63,63,63,63	0
58	MG	1A	3805	1/1	0.97	0.07	22,22,22,22	0
58	MG	1V	201	1/1	0.97	0.17	23,23,23,23	0
58	MG	1A	3226	1/1	0.97	0.11	32,32,32,32	0
58	MG	1A	3125	1/1	0.97	0.15	35,35,35,35	0
58	MG	1A	3438	1/1	0.97	0.14	41,41,41,41	0
58	MG	1A	3229	1/1	0.97	0.08	36,36,36,36	0
58	MG	2A	3749	1/1	0.97	0.05	45,45,45,45	0
58	MG	2a	1712	1/1	0.97	0.14	57,57,57,57	0
58	MG	1A	3171	1/1	0.97	0.05	34,34,34,34	0
58	MG	1A	3175	1/1	0.97	0.09	29,29,29,29	0
58	MG	1W	203	1/1	0.97	0.09	38,38,38,38	0
58	MG	1W	206	1/1	0.97	0.12	26,26,26,26	0
58	MG	2A	3754	1/1	0.97	0.08	41,41,41,41	0
58	MG	1A	3126	1/1	0.97	0.20	32,32,32,32	0
58	MG	2A	3463	1/1	0.97	0.11	62,62,62,62	0
58	MG	1A	3443	1/1	0.97	0.11	28,28,28,28	0
58	MG	1A	3816	1/1	0.97	0.05	24,24,24,24	0
58	MG	1a	1781	1/1	0.97	0.06	51,51,51,51	0
58	MG	1A	3652	1/1	0.97	0.08	34,34,34,34	0
58	MG	1A	4003	1/1	0.97	0.04	25,25,25,25	0
58	MG	1A	3818	1/1	0.97	0.30	29,29,29,29	0
58	MG	1a	1786	1/1	0.97	0.10	52,52,52,52	0
58	MG	1A	3444	1/1	0.97	0.08	32,32,32,32	0
58	MG	2A	3766	1/1	0.97	0.07	40,40,40,40	0
58	MG	1A	4008	1/1	0.97	0.05	37,37,37,37	0
58	MG	2A	3210	1/1	0.97	0.05	48,48,48,48	0
58	MG	2A	3474	1/1	0.97	0.04	45,45,45,45	0
58	MG	2A	3211	1/1	0.97	0.06	48,48,48,48	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	4009	1/1	0.97	0.06	29,29,29,29	0
58	MG	1A	4010	1/1	0.97	0.04	37,37,37,37	0
58	MG	1A	3822	1/1	0.97	0.04	25,25,25,25	0
58	MG	1A	3364	1/1	0.97	0.18	32,32,32,32	0
58	MG	1A	4013	1/1	0.97	0.07	66,66,66,66	0
58	MG	1A	3533	1/1	0.97	0.26	39,39,39,39	0
58	MG	1A	3233	1/1	0.97	0.07	62,62,62,62	0
58	MG	1A	3658	1/1	0.97	0.12	55,55,55,55	0
58	MG	1a	1800	1/1	0.97	0.06	60,60,60,60	0
58	MG	1a	1801	1/1	0.97	0.21	48,48,48,48	0
58	MG	1A	3535	1/1	0.97	0.20	41,41,41,41	0
58	MG	1A	3366	1/1	0.97	0.24	37,37,37,37	0
58	MG	1A	3830	1/1	0.97	0.09	29,29,29,29	0
58	MG	1A	3831	1/1	0.97	0.08	48,48,48,48	0
58	MG	2A	3226	1/1	0.97	0.08	42,42,42,42	0
58	MG	2a	1748	1/1	0.97	0.04	58,58,58,58	0
58	MG	12	101	1/1	0.97	0.08	42,42,42,42	0
58	MG	2A	3788	1/1	0.97	0.06	62,62,62,62	0
58	MG	1A	3832	1/1	0.97	0.06	45,45,45,45	0
58	MG	2A	3497	1/1	0.97	0.09	52,52,52,52	0
58	MG	1A	4023	1/1	0.97	0.07	62,62,62,62	0
58	MG	1A	4024	1/1	0.97	0.09	30,30,30,30	0
58	MG	1A	3234	1/1	0.97	0.26	37,37,37,37	0
58	MG	1A	4028	1/1	0.97	0.05	40,40,40,40	0
58	MG	2A	3233	1/1	0.97	0.07	36,36,36,36	0
58	MG	1A	3662	1/1	0.97	0.04	22,22,22,22	0
58	MG	1A	3043	1/1	0.97	0.07	33,33,33,33	0
58	MG	1A	3237	1/1	0.97	0.19	28,28,28,28	0
58	MG	1A	3058	1/1	0.97	0.10	47,47,47,47	0
58	MG	15	104	1/1	0.97	0.27	26,26,26,26	0
58	MG	1A	3014	1/1	0.97	0.11	37,37,37,37	0
58	MG	1A	3668	1/1	0.97	0.05	19,19,19,19	0
58	MG	1A	3455	1/1	0.97	0.19	38,38,38,38	0
58	MG	1A	3130	1/1	0.97	0.13	43,43,43,43	0
58	MG	2A	3805	1/1	0.97	0.10	42,42,42,42	0
58	MG	1A	4038	1/1	0.97	0.08	26,26,26,26	0
58	MG	1A	3842	1/1	0.97	0.11	40,40,40,40	0
58	MG	1A	3008	1/1	0.97	0.04	30,30,30,30	0
58	MG	1A	3675	1/1	0.97	0.05	17,17,17,17	0
58	MG	2A	3517	1/1	0.97	0.06	53,53,53,53	0
58	MG	2a	1774	1/1	0.97	0.07	64,64,64,64	0
58	MG	1A	3845	1/1	0.97	0.09	47,47,47,47	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	4044	1/1	0.97	0.05	28,28,28,28	0
58	MG	1A	3132	1/1	0.97	0.21	31,31,31,31	0
58	MG	2A	3816	1/1	0.97	0.05	46,46,46,46	0
58	MG	2a	1779	1/1	0.97	0.05	46,46,46,46	0
58	MG	18	104	1/1	0.97	0.14	33,33,33,33	0
58	MG	2A	3252	1/1	0.97	0.12	61,61,61,61	0
58	MG	1A	3547	1/1	0.97	0.07	35,35,35,35	0
58	MG	1A	3548	1/1	0.97	0.05	44,44,44,44	0
58	MG	1A	3849	1/1	0.97	0.13	41,41,41,41	0
58	MG	1A	3851	1/1	0.97	0.17	31,31,31,31	0
58	MG	1A	3852	1/1	0.97	0.06	16,16,16,16	0
58	MG	1A	3681	1/1	0.97	0.10	44,44,44,44	0
58	MG	1A	3550	1/1	0.97	0.18	33,33,33,33	0
58	MG	1A	3134	1/1	0.97	0.08	27,27,27,27	0
58	MG	1A	3046	1/1	0.97	0.13	28,28,28,28	0
58	MG	2A	3003	1/1	0.97	0.28	55,55,55,55	0
58	MG	2A	3004	1/1	0.97	0.26	44,44,44,44	0
58	MG	2A	3265	1/1	0.97	0.14	47,47,47,47	0
58	MG	2A	3535	1/1	0.97	0.06	44,44,44,44	0
58	MG	1A	4059	1/1	0.97	0.09	15,15,15,15	0
58	MG	2A	3836	1/1	0.97	0.09	44,44,44,44	0
58	MG	2A	3267	1/1	0.97	0.07	50,50,50,50	0
58	MG	1A	3686	1/1	0.97	0.05	29,29,29,29	0
58	MG	2A	3839	1/1	0.97	0.07	42,42,42,42	0
58	MG	1A	3553	1/1	0.97	0.14	34,34,34,34	0
58	MG	1A	3689	1/1	0.97	0.04	22,22,22,22	0
58	MG	1a	1609	1/1	0.97	0.07	54,54,54,54	0
58	MG	1a	1610	1/1	0.97	0.19	48,48,48,48	0
58	MG	2A	3011	1/1	0.97	0.11	53,53,53,53	0
58	MG	2A	3274	1/1	0.97	0.08	62,62,62,62	0
58	MG	2A	3545	1/1	0.97	0.04	44,44,44,44	0
58	MG	2a	1807	1/1	0.97	0.20	51,51,51,51	0
58	MG	2A	3012	1/1	0.97	0.04	37,37,37,37	0
58	MG	1A	4066	1/1	0.97	0.12	47,47,47,47	0
58	MG	1A	3188	1/1	0.97	0.11	39,39,39,39	0
58	MG	1A	3463	1/1	0.97	0.12	40,40,40,40	0
58	MG	2A	3279	1/1	0.97	0.09	48,48,48,48	0
58	MG	1A	3247	1/1	0.97	0.19	36,36,36,36	0
58	MG	1A	3693	1/1	0.97	0.04	26,26,26,26	0
58	MG	2A	3555	1/1	0.97	0.06	54,54,54,54	0
58	MG	1A	3559	1/1	0.97	0.14	26,26,26,26	0
58	MG	2A	3019	1/1	0.97	0.08	38,38,38,38	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	4072	1/1	0.97	0.08	38,38,38,38	0
58	MG	2A	3559	1/1	0.97	0.06	39,39,39,39	0
58	MG	1A	3560	1/1	0.97	0.06	22,22,22,22	0
58	MG	1a	1619	1/1	0.97	0.05	57,57,57,57	0
58	MG	1A	3063	1/1	0.97	0.09	35,35,35,35	0
58	MG	1A	3384	1/1	0.97	0.26	43,43,43,43	0
58	MG	2A	3027	1/1	0.97	0.05	47,47,47,47	0
58	MG	1A	4077	1/1	0.97	0.13	44,44,44,44	0
58	MG	1A	3318	1/1	0.97	0.09	31,31,31,31	0
58	MG	1A	3566	1/1	0.97	0.26	36,36,36,36	0
58	MG	1a	1625	1/1	0.97	0.12	58,58,58,58	0
58	MG	2A	3569	1/1	0.97	0.10	43,43,43,43	0
58	MG	2A	3032	1/1	0.97	0.05	51,51,51,51	0
58	MG	1A	3028	1/1	0.97	0.12	34,34,34,34	0
58	MG	1A	3193	1/1	0.97	0.11	25,25,25,25	0
58	MG	1A	3706	1/1	0.97	0.04	25,25,25,25	0
58	MG	2f	201	1/1	0.97	0.09	49,49,49,49	0
58	MG	1a	1629	1/1	0.97	0.18	43,43,43,43	0
58	MG	2A	3575	1/1	0.97	0.04	27,27,27,27	0
58	MG	1A	3065	1/1	0.97	0.08	29,29,29,29	0
58	MG	2A	3040	1/1	0.97	0.17	51,51,51,51	0
58	MG	1A	3099	1/1	0.97	0.04	38,38,38,38	0
58	MG	1A	3145	1/1	0.97	0.10	27,27,27,27	0
58	MG	1A	3031	1/1	0.97	0.11	23,23,23,23	0
58	MG	1A	3474	1/1	0.97	0.10	41,41,41,41	0
58	MG	1A	3880	1/1	0.97	0.05	55,55,55,55	0
58	MG	2D	301	1/1	0.97	0.06	39,39,39,39	0
58	MG	2D	302	1/1	0.97	0.22	43,43,43,43	0
58	MG	1A	3576	1/1	0.97	0.09	36,36,36,36	0
58	MG	2r	101	1/1	0.97	0.12	50,50,50,50	0
58	MG	2D	304	1/1	0.97	0.07	34,34,34,34	0
58	MG	1a	1638	1/1	0.97	0.15	57,57,57,57	0
58	MG	1A	3325	1/1	0.97	0.14	30,30,30,30	0
58	MG	1A	4091	1/1	0.97	0.06	47,47,47,47	0
58	MG	1a	1641	1/1	0.97	0.10	70,70,70,70	0
58	MG	2A	3590	1/1	0.97	0.06	47,47,47,47	0
58	MG	1A	3578	1/1	0.97	0.12	49,49,49,49	0
58	MG	1A	3069	1/1	0.97	0.07	16,16,16,16	0
58	MG	1A	3886	1/1	0.97	0.07	48,48,48,48	0
58	MG	1a	1645	1/1	0.97	0.12	44,44,44,44	0
58	MG	1A	3718	1/1	0.97	0.06	36,36,36,36	0
58	MG	1A	3102	1/1	0.97	0.13	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1a	1649	1/1	0.97	0.09	43,43,43,43	0
58	MG	1A	3478	1/1	0.97	0.05	60,60,60,60	0
58	MG	1A	3722	1/1	0.97	0.06	32,32,32,32	0
58	MG	1A	3723	1/1	0.97	0.05	22,22,22,22	0
60	ZN	24	501	1/1	0.97	0.12	124,124,124,124	0
61	SF4	2d	303	8/8	0.97	0.05	77,84,90,103	0
58	MG	1A	3695	1/1	0.98	0.07	23,23,23,23	0
58	MG	1A	3587	1/1	0.98	0.21	29,29,29,29	0
58	MG	2A	3112	1/1	0.98	0.10	45,45,45,45	0
58	MG	1B	202	1/1	0.98	0.13	43,43,43,43	0
58	MG	1a	1764	1/1	0.98	0.05	57,57,57,57	0
58	MG	1A	3174	1/1	0.98	0.10	24,24,24,24	0
58	MG	17	103	1/1	0.98	0.13	25,25,25,25	0
58	MG	2A	3117	1/1	0.98	0.26	62,62,62,62	0
58	MG	1A	3819	1/1	0.98	0.03	21,21,21,21	0
58	MG	1A	3589	1/1	0.98	0.09	40,40,40,40	0
58	MG	1A	3821	1/1	0.98	0.03	21,21,21,21	0
58	MG	1A	3105	1/1	0.98	0.07	28,28,28,28	0
58	MG	1A	3106	1/1	0.98	0.04	26,26,26,26	0
58	MG	1A	3702	1/1	0.98	0.06	28,28,28,28	0
58	MG	1A	3825	1/1	0.98	0.04	29,29,29,29	0
58	MG	1A	3020	1/1	0.98	0.04	21,21,21,21	0
58	MG	1A	3704	1/1	0.98	0.04	15,15,15,15	0
58	MG	2A	3761	1/1	0.98	0.06	48,48,48,48	0
58	MG	1A	3108	1/1	0.98	0.15	34,34,34,34	0
58	MG	1A	3504	1/1	0.98	0.07	32,32,32,32	0
58	MG	1A	3110	1/1	0.98	0.04	35,35,35,35	0
58	MG	1B	217	1/1	0.98	0.09	45,45,45,45	0
58	MG	1A	3961	1/1	0.98	0.06	38,38,38,38	0
58	MG	1A	3708	1/1	0.98	0.04	30,30,30,30	0
58	MG	1A	3293	1/1	0.98	0.07	54,54,54,54	0
58	MG	1a	1784	1/1	0.98	0.06	41,41,41,41	0
58	MG	2A	3546	1/1	0.98	0.05	37,37,37,37	0
58	MG	1A	3139	1/1	0.98	0.10	32,32,32,32	0
58	MG	2A	3772	1/1	0.98	0.06	56,56,56,56	0
58	MG	2A	3548	1/1	0.98	0.11	36,36,36,36	0
58	MG	1A	3359	1/1	0.98	0.07	49,49,49,49	0
58	MG	1A	3966	1/1	0.98	0.06	41,41,41,41	0
58	MG	1a	1789	1/1	0.98	0.04	52,52,52,52	0
58	MG	2A	3139	1/1	0.98	0.05	39,39,39,39	0
58	MG	1A	3140	1/1	0.98	0.06	29,29,29,29	0
58	MG	2A	3141	1/1	0.98	0.12	40,40,40,40	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3235	1/1	0.98	0.15	23,23,23,23	0
58	MG	1A	3362	1/1	0.98	0.11	46,46,46,46	0
58	MG	1A	3512	1/1	0.98	0.23	25,25,25,25	0
58	MG	1A	3716	1/1	0.98	0.03	12,12,12,12	0
58	MG	1A	3141	1/1	0.98	0.09	17,17,17,17	0
58	MG	1A	3604	1/1	0.98	0.09	43,43,43,43	0
58	MG	1A	3007	1/1	0.98	0.10	35,35,35,35	0
58	MG	1B	232	1/1	0.98	0.04	46,46,46,46	0
58	MG	1a	1799	1/1	0.98	0.09	51,51,51,51	0
58	MG	1A	3436	1/1	0.98	0.08	42,42,42,42	0
58	MG	2A	3154	1/1	0.98	0.11	41,41,41,41	0
58	MG	1A	3437	1/1	0.98	0.20	33,33,33,33	0
58	MG	1A	3143	1/1	0.98	0.09	54,54,54,54	0
58	MG	1A	3303	1/1	0.98	0.04	29,29,29,29	0
58	MG	1B	237	1/1	0.98	0.03	27,27,27,27	0
58	MG	1D	301	1/1	0.98	0.19	42,42,42,42	0
58	MG	1a	1806	1/1	0.98	0.10	56,56,56,56	0
58	MG	1A	3239	1/1	0.98	0.20	33,33,33,33	0
58	MG	2A	3162	1/1	0.98	0.15	39,39,39,39	0
58	MG	1A	3726	1/1	0.98	0.13	56,56,56,56	0
58	MG	1D	305	1/1	0.98	0.08	33,33,33,33	0
58	MG	1D	306	1/1	0.98	0.14	35,35,35,35	0
58	MG	1A	3611	1/1	0.98	0.09	47,47,47,47	0
58	MG	1A	3983	1/1	0.98	0.04	18,18,18,18	0
58	MG	1e	201	1/1	0.98	0.03	49,49,49,49	0
58	MG	2A	3169	1/1	0.98	0.08	54,54,54,54	0
58	MG	2A	3581	1/1	0.98	0.06	38,38,38,38	0
58	MG	1A	3984	1/1	0.98	0.06	28,28,28,28	0
58	MG	2A	3369	1/1	0.98	0.15	40,40,40,40	0
58	MG	1A	3850	1/1	0.98	0.07	49,49,49,49	0
58	MG	1k	201	1/1	0.98	0.13	45,45,45,45	0
58	MG	1A	3612	1/1	0.98	0.06	29,29,29,29	0
58	MG	1A	3613	1/1	0.98	0.08	36,36,36,36	0
58	MG	1A	3615	1/1	0.98	0.06	19,19,19,19	0
58	MG	2a	1705	1/1	0.98	0.10	60,60,60,60	0
58	MG	1A	3989	1/1	0.98	0.04	40,40,40,40	0
58	MG	2A	3177	1/1	0.98	0.08	31,31,31,31	0
58	MG	2A	3818	1/1	0.98	0.10	69,69,69,69	0
58	MG	1E	303	1/1	0.98	0.15	44,44,44,44	0
58	MG	1A	3991	1/1	0.98	0.05	33,33,33,33	0
58	MG	1E	305	1/1	0.98	0.07	28,28,28,28	0
58	MG	1A	3731	1/1	0.98	0.04	37,37,37,37	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3732	1/1	0.98	0.03	27,27,27,27	0
58	MG	1A	3733	1/1	0.98	0.05	20,20,20,20	0
58	MG	1E	309	1/1	0.98	0.09	49,49,49,49	0
58	MG	1A	3144	1/1	0.98	0.10	35,35,35,35	0
58	MG	1A	3054	1/1	0.98	0.09	29,29,29,29	0
58	MG	2A	3829	1/1	0.98	0.04	66,66,66,66	0
58	MG	1A	3522	1/1	0.98	0.04	35,35,35,35	0
58	MG	2A	3188	1/1	0.98	0.07	46,46,46,46	0
58	MG	1A	3190	1/1	0.98	0.21	31,31,31,31	0
58	MG	1A	3146	1/1	0.98	0.12	26,26,26,26	0
58	MG	1A	3622	1/1	0.98	0.08	24,24,24,24	0
58	MG	1A	3740	1/1	0.98	0.06	48,48,48,48	0
58	MG	1A	3192	1/1	0.98	0.21	29,29,29,29	0
58	MG	1A	3086	1/1	0.98	0.18	25,25,25,25	0
58	MG	1A	3374	1/1	0.98	0.09	36,36,36,36	0
58	MG	1F	305	1/1	0.98	0.04	29,29,29,29	0
58	MG	1A	4006	1/1	0.98	0.03	38,38,38,38	0
58	MG	2A	3397	1/1	0.98	0.15	42,42,42,42	0
58	MG	2A	3398	1/1	0.98	0.11	48,48,48,48	0
58	MG	1A	4007	1/1	0.98	0.04	44,44,44,44	0
58	MG	1A	3068	1/1	0.98	0.10	31,31,31,31	0
58	MG	1A	3035	1/1	0.98	0.05	32,32,32,32	0
58	MG	1A	3377	1/1	0.98	0.07	41,41,41,41	0
58	MG	1A	3631	1/1	0.98	0.04	16,16,16,16	0
58	MG	1A	3378	1/1	0.98	0.13	24,24,24,24	0
58	MG	1A	3452	1/1	0.98	0.05	45,45,45,45	0
58	MG	2A	3850	1/1	0.98	0.09	53,53,53,53	0
58	MG	2A	3406	1/1	0.98	0.19	38,38,38,38	0
58	MG	1A	4014	1/1	0.98	0.06	37,37,37,37	0
58	MG	1A	3089	1/1	0.98	0.07	32,32,32,32	0
58	MG	2A	3855	1/1	0.98	0.04	64,64,64,64	0
58	MG	1A	3874	1/1	0.98	0.23	29,29,29,29	0
58	MG	1A	3454	1/1	0.98	0.17	50,50,50,50	0
58	MG	1A	3876	1/1	0.98	0.12	29,29,29,29	0
58	MG	1A	3249	1/1	0.98	0.05	43,43,43,43	0
58	MG	1A	3250	1/1	0.98	0.06	48,48,48,48	0
58	MG	1A	3382	1/1	0.98	0.04	33,33,33,33	0
58	MG	2A	3630	1/1	0.98	0.07	46,46,46,46	0
58	MG	1N	203	1/1	0.98	0.04	32,32,32,32	0
58	MG	1A	3538	1/1	0.98	0.14	37,37,37,37	0
58	MG	1N	205	1/1	0.98	0.04	36,36,36,36	0
58	MG	1A	3117	1/1	0.98	0.11	23,23,23,23	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2a	1755	1/1	0.98	0.04	64,64,64,64	0
58	MG	2A	3021	1/1	0.98	0.06	30,30,30,30	0
58	MG	2A	3022	1/1	0.98	0.09	42,42,42,42	0
58	MG	2A	3637	1/1	0.98	0.06	36,36,36,36	0
58	MG	1A	3317	1/1	0.98	0.05	43,43,43,43	0
58	MG	1A	3385	1/1	0.98	0.30	25,25,25,25	0
58	MG	1A	3118	1/1	0.98	0.05	35,35,35,35	0
58	MG	1A	3885	1/1	0.98	0.05	43,43,43,43	0
58	MG	1A	3387	1/1	0.98	0.16	21,21,21,21	0
58	MG	1P	203	1/1	0.98	0.17	32,32,32,32	0
58	MG	1A	3199	1/1	0.98	0.10	23,23,23,23	0
58	MG	1A	3647	1/1	0.98	0.06	27,27,27,27	0
58	MG	1A	3201	1/1	0.98	0.12	31,31,31,31	0
58	MG	2A	3647	1/1	0.98	0.15	55,55,55,55	0
58	MG	2A	3648	1/1	0.98	0.12	63,63,63,63	0
58	MG	1A	3037	1/1	0.98	0.09	34,34,34,34	0
58	MG	1A	3257	1/1	0.98	0.11	38,38,38,38	0
58	MG	2A	3034	1/1	0.98	0.06	49,49,49,49	0
58	MG	1A	3038	1/1	0.98	0.21	31,31,31,31	0
58	MG	1A	4037	1/1	0.98	0.10	26,26,26,26	0
58	MG	2A	3037	1/1	0.98	0.15	44,44,44,44	0
58	MG	2A	3234	1/1	0.98	0.27	37,37,37,37	0
58	MG	1Q	205	1/1	0.98	0.04	45,45,45,45	0
58	MG	2D	305	1/1	0.98	0.24	39,39,39,39	0
58	MG	2A	3438	1/1	0.98	0.16	46,46,46,46	0
58	MG	2A	3439	1/1	0.98	0.23	53,53,53,53	0
58	MG	1A	3155	1/1	0.98	0.13	27,27,27,27	0
58	MG	1A	3156	1/1	0.98	0.04	30,30,30,30	0
58	MG	2A	3661	1/1	0.98	0.08	38,38,38,38	0
58	MG	1R	201	1/1	0.98	0.08	30,30,30,30	0
58	MG	2E	305	1/1	0.98	0.08	35,35,35,35	0
58	MG	1A	3121	1/1	0.98	0.16	29,29,29,29	0
58	MG	1A	4041	1/1	0.98	0.09	36,36,36,36	0
58	MG	2A	3665	1/1	0.98	0.17	41,41,41,41	0
58	MG	1A	3896	1/1	0.98	0.06	41,41,41,41	0
58	MG	1A	3396	1/1	0.98	0.05	32,32,32,32	0
58	MG	1A	3775	1/1	0.98	0.06	20,20,20,20	0
58	MG	1A	3899	1/1	0.98	0.08	49,49,49,49	0
58	MG	1A	4046	1/1	0.98	0.06	42,42,42,42	0
58	MG	1U	201	1/1	0.98	0.10	30,30,30,30	0
58	MG	1A	3048	1/1	0.98	0.08	25,25,25,25	0
58	MG	1A	3159	1/1	0.98	0.09	25,25,25,25	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3778	1/1	0.98	0.04	33,33,33,33	0
58	MG	1A	3074	1/1	0.98	0.04	29,29,29,29	0
58	MG	1A	3558	1/1	0.98	0.06	28,28,28,28	0
58	MG	1U	209	1/1	0.98	0.07	44,44,44,44	0
58	MG	1A	4052	1/1	0.98	0.06	34,34,34,34	0
58	MG	1A	3060	1/1	0.98	0.10	49,49,49,49	0
58	MG	2A	3461	1/1	0.98	0.08	51,51,51,51	0
58	MG	1V	204	1/1	0.98	0.19	30,30,30,30	0
58	MG	1V	205	1/1	0.98	0.18	29,29,29,29	0
58	MG	1A	3906	1/1	0.98	0.07	36,36,36,36	0
58	MG	1V	207	1/1	0.98	0.03	36,36,36,36	0
58	MG	1A	3211	1/1	0.98	0.15	33,33,33,33	0
58	MG	1A	4057	1/1	0.98	0.03	43,43,43,43	0
58	MG	2A	3261	1/1	0.98	0.05	53,53,53,53	0
58	MG	1A	3402	1/1	0.98	0.07	39,39,39,39	0
58	MG	1A	3096	1/1	0.98	0.04	32,32,32,32	0
58	MG	1A	3097	1/1	0.98	0.07	33,33,33,33	0
58	MG	1W	204	1/1	0.98	0.09	30,30,30,30	0
58	MG	1W	205	1/1	0.98	0.10	32,32,32,32	0
58	MG	1A	3565	1/1	0.98	0.27	38,38,38,38	0
58	MG	1A	3214	1/1	0.98	0.12	34,34,34,34	0
58	MG	1A	3669	1/1	0.98	0.04	18,18,18,18	0
58	MG	1A	3789	1/1	0.98	0.04	45,45,45,45	0
58	MG	2A	3478	1/1	0.98	0.06	48,48,48,48	0
58	MG	1X	103	1/1	0.98	0.23	43,43,43,43	0
58	MG	1X	104	1/1	0.98	0.10	33,33,33,33	0
58	MG	23	104	1/1	0.98	0.07	49,49,49,49	0
58	MG	1X	105	1/1	0.98	0.04	47,47,47,47	0
58	MG	1Y	201	1/1	0.98	0.05	41,41,41,41	0
58	MG	1A	3568	1/1	0.98	0.18	35,35,35,35	0
58	MG	1a	1728	1/1	0.98	0.05	38,38,38,38	0
58	MG	1A	3077	1/1	0.98	0.06	29,29,29,29	0
58	MG	1A	3078	1/1	0.98	0.10	26,26,26,26	0
58	MG	1A	3674	1/1	0.98	0.08	24,24,24,24	0
58	MG	1A	3029	1/1	0.98	0.14	22,22,22,22	0
58	MG	1A	3485	1/1	0.98	0.07	36,36,36,36	0
58	MG	2A	3490	1/1	0.98	0.14	33,33,33,33	0
58	MG	10	103	1/1	0.98	0.05	35,35,35,35	0
58	MG	2A	3283	1/1	0.98	0.25	52,52,52,52	0
58	MG	1A	3218	1/1	0.98	0.06	37,37,37,37	0
58	MG	1A	4075	1/1	0.98	0.13	46,46,46,46	0
58	MG	1A	3410	1/1	0.98	0.06	32,32,32,32	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3717	1/1	0.98	0.04	33,33,33,33	0
58	MG	1A	3080	1/1	0.98	0.17	29,29,29,29	0
58	MG	1A	3275	1/1	0.98	0.13	21,21,21,21	0
58	MG	1A	3012	1/1	0.98	0.14	30,30,30,30	0
58	MG	1A	3684	1/1	0.98	0.05	22,22,22,22	0
58	MG	2A	3722	1/1	0.98	0.06	38,38,38,38	0
58	MG	1A	3221	1/1	0.98	0.10	32,32,32,32	0
58	MG	2A	3724	1/1	0.98	0.10	50,50,50,50	0
58	MG	1a	1744	1/1	0.98	0.14	38,38,38,38	0
58	MG	1A	3929	1/1	0.98	0.04	48,48,48,48	0
58	MG	1A	3930	1/1	0.98	0.04	58,58,58,58	0
58	MG	1A	3931	1/1	0.98	0.05	29,29,29,29	0
58	MG	1a	1748	1/1	0.98	0.10	61,61,61,61	0
58	MG	2A	3730	1/1	0.98	0.04	61,61,61,61	0
58	MG	1A	3032	1/1	0.98	0.25	29,29,29,29	0
58	MG	1A	3133	1/1	0.98	0.04	33,33,33,33	0
58	MG	1A	3688	1/1	0.98	0.05	26,26,26,26	0
58	MG	1A	3937	1/1	0.98	0.11	46,46,46,46	0
58	MG	1A	3938	1/1	0.98	0.03	36,36,36,36	0
58	MG	1A	3581	1/1	0.98	0.03	37,37,37,37	0
58	MG	1A	3172	1/1	0.98	0.13	40,40,40,40	0
58	MG	1A	3282	1/1	0.98	0.12	39,39,39,39	0
58	MG	1A	3173	1/1	0.98	0.22	31,31,31,31	0
58	MG	1A	3284	1/1	0.98	0.05	50,50,50,50	0
58	MG	1A	3944	1/1	0.98	0.07	40,40,40,40	0
60	ZN	2Y	202	1/1	0.98	0.04	96,96,96,96	0
58	MG	2A	3742	1/1	0.98	0.04	49,49,49,49	0
60	ZN	25	106	1/1	0.98	0.03	67,67,67,67	0
60	ZN	29	501	1/1	0.98	0.04	62,62,62,62	0
60	ZN	2n	102	1/1	0.98	0.05	92,92,92,92	0
61	SF4	1d	302	8/8	0.98	0.06	62,67,71,80	0
58	MG	1A	3285	1/1	0.98	0.23	46,46,46,46	0
58	MG	2A	3365	1/1	0.99	0.08	37,37,37,37	0
58	MG	1A	3066	1/1	0.99	0.02	27,27,27,27	0
58	MG	1A	3696	1/1	0.99	0.03	37,37,37,37	0
58	MG	1A	3036	1/1	0.99	0.10	24,24,24,24	0
58	MG	1A	3623	1/1	0.99	0.05	22,22,22,22	0
58	MG	1A	3561	1/1	0.99	0.23	30,30,30,30	0
58	MG	1A	3625	1/1	0.99	0.07	51,51,51,51	0
58	MG	2A	3450	1/1	0.99	0.15	26,26,26,26	0
58	MG	1F	306	1/1	0.99	0.06	42,42,42,42	0
58	MG	1A	3935	1/1	0.99	0.06	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	3936	1/1	0.99	0.03	40,40,40,40	0
58	MG	1A	3990	1/1	0.99	0.05	44,44,44,44	0
58	MG	1A	3022	1/1	0.99	0.04	16,16,16,16	0
58	MG	1A	3252	1/1	0.99	0.04	26,26,26,26	0
58	MG	2A	3149	1/1	0.99	0.06	36,36,36,36	0
58	MG	1A	3744	1/1	0.99	0.07	20,20,20,20	0
58	MG	2A	3151	1/1	0.99	0.04	37,37,37,37	0
58	MG	1A	3298	1/1	0.99	0.09	23,23,23,23	0
58	MG	1B	216	1/1	0.99	0.04	43,43,43,43	0
58	MG	2A	3708	1/1	0.99	0.03	49,49,49,49	0
58	MG	1A	3746	1/1	0.99	0.03	11,11,11,11	0
58	MG	1A	3160	1/1	0.99	0.05	24,24,24,24	0
58	MG	1A	4054	1/1	0.99	0.06	22,22,22,22	0
58	MG	1a	1770	1/1	0.99	0.03	39,39,39,39	0
58	MG	1A	3013	1/1	0.99	0.03	26,26,26,26	0
58	MG	1A	3666	1/1	0.99	0.03	36,36,36,36	0
58	MG	1A	3750	1/1	0.99	0.03	26,26,26,26	0
58	MG	1A	3796	1/1	0.99	0.09	21,21,21,21	0
58	MG	1A	4001	1/1	0.99	0.03	30,30,30,30	0
58	MG	1A	3567	1/1	0.99	0.19	39,39,39,39	0
58	MG	1A	3070	1/1	0.99	0.05	28,28,28,28	0
58	MG	1A	3302	1/1	0.99	0.04	32,32,32,32	0
58	MG	1a	1633	1/1	0.99	0.11	28,28,28,28	0
58	MG	1A	4064	1/1	0.99	0.04	31,31,31,31	0
58	MG	1A	3800	1/1	0.99	0.04	34,34,34,34	0
58	MG	1A	3178	1/1	0.99	0.09	33,33,33,33	0
58	MG	1A	3635	1/1	0.99	0.05	27,27,27,27	0
58	MG	1A	3672	1/1	0.99	0.06	30,30,30,30	0
58	MG	1A	3093	1/1	0.99	0.06	17,17,17,17	0
58	MG	1A	3279	1/1	0.99	0.12	28,28,28,28	0
58	MG	1A	3806	1/1	0.99	0.03	32,32,32,32	0
58	MG	2A	3813	1/1	0.99	0.06	32,32,32,32	0
58	MG	12	102	1/1	0.99	0.06	39,39,39,39	0
58	MG	2A	3815	1/1	0.99	0.04	43,43,43,43	0
58	MG	1A	3807	1/1	0.99	0.04	26,26,26,26	0
58	MG	1A	3011	1/1	0.99	0.04	26,26,26,26	0
58	MG	1A	3462	1/1	0.99	0.10	35,35,35,35	0
58	MG	1A	3677	1/1	0.99	0.04	27,27,27,27	0
58	MG	1A	3762	1/1	0.99	0.07	35,35,35,35	0
58	MG	1a	1648	1/1	0.99	0.03	49,49,49,49	0
58	MG	1D	304	1/1	0.99	0.04	19,19,19,19	0
58	MG	1A	3003	1/1	0.99	0.06	23,23,23,23	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	2A	3492	1/1	0.99	0.11	25,25,25,25	0
58	MG	2A	3825	1/1	0.99	0.07	20,20,20,20	0
58	MG	1A	3911	1/1	0.99	0.03	23,23,23,23	0
58	MG	1D	307	1/1	0.99	0.12	28,28,28,28	0
58	MG	1A	3679	1/1	0.99	0.02	27,27,27,27	0
58	MG	2A	3496	1/1	0.99	0.03	61,61,61,61	0
58	MG	1A	3200	1/1	0.99	0.03	30,30,30,30	0
58	MG	1R	203	1/1	0.99	0.12	34,34,34,34	0
58	MG	1A	3721	1/1	0.99	0.04	40,40,40,40	0
58	MG	1A	3109	1/1	0.99	0.13	28,28,28,28	0
58	MG	17	101	1/1	0.99	0.05	29,29,29,29	0
58	MG	1A	3030	1/1	0.99	0.14	23,23,23,23	0
58	MG	1A	3184	1/1	0.99	0.04	35,35,35,35	0
58	MG	2W	202	1/1	0.99	0.15	37,37,37,37	0
58	MG	1A	4025	1/1	0.99	0.03	26,26,26,26	0
58	MG	1A	4026	1/1	0.99	0.03	41,41,41,41	0
58	MG	2A	3587	1/1	0.99	0.04	35,35,35,35	0
58	MG	1A	3549	1/1	0.99	0.17	36,36,36,36	0
58	MG	1a	1736	1/1	0.99	0.08	41,41,41,41	0
58	MG	1U	202	1/1	0.99	0.15	36,36,36,36	0
58	MG	1A	3056	1/1	0.99	0.05	29,29,29,29	0
58	MG	1A	3186	1/1	0.99	0.11	34,34,34,34	0
58	MG	2A	3511	1/1	0.99	0.07	38,38,38,38	0
58	MG	1A	3098	1/1	0.99	0.11	16,16,16,16	0
58	MG	1A	3614	1/1	0.99	0.05	34,34,34,34	0
58	MG	1U	207	1/1	0.99	0.13	26,26,26,26	0
58	MG	1A	3975	1/1	0.99	0.03	49,49,49,49	0
58	MG	1A	3289	1/1	0.99	0.09	24,24,24,24	0
58	MG	25	104	1/1	0.99	0.05	52,52,52,52	0
60	ZN	1Y	204	1/1	0.99	0.03	70,70,70,70	0
58	MG	1A	3075	1/1	0.99	0.02	33,33,33,33	0
60	ZN	19	501	1/1	0.99	0.11	60,60,60,60	0
60	ZN	1n	103	1/1	0.99	0.02	65,65,65,65	0
58	MG	1A	3042	1/1	0.99	0.20	33,33,33,33	0
58	MG	1V	203	1/1	0.99	0.04	34,34,34,34	0
58	MG	2A	3854	1/1	0.99	0.13	39,39,39,39	0
60	ZN	26	501	1/1	0.99	0.05	61,61,61,61	0
58	MG	1E	312	1/1	0.99	0.11	21,21,21,21	0
58	MG	1A	3343	1/1	0.99	0.11	34,34,34,34	0
58	MG	1A	3228	1/1	0.99	0.15	33,33,33,33	0
58	MG	1A	3655	1/1	0.99	0.06	30,30,30,30	0
58	MG	1a	1787	1/1	1.00	0.02	47,47,47,47	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1A	4065	1/1	1.00	0.04	22,22,22,22	0
58	MG	1A	3295	1/1	1.00	0.02	28,28,28,28	0
58	MG	1A	4060	1/1	1.00	0.04	21,21,21,21	0
60	ZN	15	107	1/1	1.00	0.01	38,38,38,38	0
60	ZN	16	103	1/1	1.00	0.02	39,39,39,39	0
58	MG	1A	3618	1/1	1.00	0.05	31,31,31,31	0
58	MG	2A	3700	1/1	1.00	0.06	26,26,26,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.